

Summary Update Report for

John Webster Residence/WDOT

BRRTS 03-45-561657; PECFA 54313-9102-05

Project Number: 0721-01-14

Site Address: N9505 CTH U

Town of Oneida

Outagamie County, Wisconsin

May 29, 2014

Prepared For:

John Webster
c/o Steve Webster
3781 Hillcrest Drive
Green Bay, Wisconsin 54313



Mach IV

Engineering & Surveying LLC

Prepared by

Chad M. Fradette, EP

211 N. Broadway, Suite 114

Green Bay, Wisconsin 54303

(920) 569-5765 cfradette@mach-iv.com

1.0 SUMMARY

Mach IV Engineering (Mach IV) performed Site Investigation activities on the subject property.

The subject property is located at N9505 CTH U in the Town of Oneida, Outagamie County, Wisconsin. The property covered by this Phase I ESA (the subject property) is developed as residence. Former property usage was woodland. The subject property has been purchased by the Wisconsin Department of Transportation.

This Site Investigation activities were performed by Robert A Mach and Chad M Fradette of Mach IV Engineering & Surveying, LLC. Chad M Fradette is registered PECFA consultant, a licensed site assessor, and an Environmental Professional who meets the definition of an "Environmental Professional" as defined by 40 C.F.R. § 312.10(b). Robert A Mach is a Professional Engineer licensed by the State of Wisconsin and a registered PECFA consultant.

2.0 Brief Site History

The property is a residence with former usage of a 300-gallon gasoline underground storage tank (UST) and a 1,000-gallon fuel oil tank. The tanks were removed on February 4, 2014. Evidence of soil contamination was observed by the contractor during tank removal.

3.0 Drilling Overview

On April 7, 2014, seven Geoprobe™ soil borings were installed on the property, GP-1 through GP-7. The boring locations were placed in the former locations of two USTs and the surrounding area to determine the extent of soil contamination. Soil boring GP-2 was converted into a standard monitoring well and soil borings GP-4, GP-6, and GP-7 were left with temporary monitoring wells left in place to aid in definition of groundwater contamination.

Mach IV directed the installation of the Geoprobe™ soil borings by Geiss Soil & Samples LLC of Merrill, Wisconsin. All soil borings were observed, field observations were noted and each boring was screened with a photoionization detector (PID) to detect residual volatile organic compounds. Soil borings were observed continually from the surface to the bottom of each boring.

Mach IV returned to the site on April 21, 2014 to sample the four site wells. The wells had previously been surveyed by Mach IV staff.

4.0 Soil Boring Notes

Soil boring GP-1 was placed within a former tank location, noted by the removal contractor as the location of the gasoline UST. Indication of soil contamination was not encountered during field screening from 0 to 12 feet bgs, samples registered a PID reading of 0.0 ppm eq, and no odors were observed. The soils encountered below the tank backfill were brown sandy clay to nine feet bgs then hard clay. A perched groundwater was encountered at the clay interface. A soil sample was collected above the hard clay layer within the vadose zone.

Soil boring GP-2 was placed within a former tank location, noted by the removal contractor as the location of the fuel oil UST. Indication of soil contamination was encountered during field screening from 3 to 8.5 feet bgs, samples registered PID readings of 8 to 24 ppm eq in this area, and gasoline odors

were observed. No fuel oil odor was observed. This may possibly have been the location of the gasoline tank or by chance we encountered the leak from the other tank in this area. Soils at the bottom of the excavation may have also been mixed around during tank removal. The soils encountered below the tank backfill were brown sandy clay to 8.5 feet bgs then hard clay. A perched groundwater was encountered at the clay interface. Soil samples were collected at the area of highest PID reading and within the hard clay layer. A standard groundwater monitoring well was installed at this location.

Soil boring GP-3 was placed to define soil contamination. Indication of soil contamination was not encountered during field screening from 0 to 12 feet bgs, samples registered a PID reading of 0.0 ppm eq, and no odors were observed. The soils encountered below the topsoil were sandy clay to eight feet bgs over hard clay. A perched groundwater was encountered. Soil samples were collected at the groundwater interface and within the hard clay.

Soil boring GP-4 was placed to define soil and groundwater contamination. Indication of soil contamination was not encountered during field screening from 0 to 12 feet bgs, samples registered a PID reading of 0.0 ppm eq, and no odors were observed. The soils encountered below the topsoil were brown clay and sand to 4.5 feet bgs over hard clay. A perched groundwater was encountered. A soil sample was collected within the hard clay. A temporary well was set within the boring.

Soil boring GP-5 was placed to define soil contamination. Indication of soil contamination was not encountered during field screening from 0 to 12 feet bgs, samples registered a PID reading of 0.0 ppm eq, and no odors were observed. The soils encountered below the topsoil were jumbled layers of clay, silt and sandy clay to ten feet bgs over hard clay. A perched groundwater was encountered. Soil samples were collected at the groundwater interface and just above the hard clay. This boring was near to the septic tanks and was likely disturbed during installation of the tanks.

Soil boring GP-6 was placed to define soil and groundwater contamination. Indication of soil contamination was not encountered during field screening from 0 to 12 feet bgs, samples registered a PID reading of 0.0 ppm eq, and no odors were observed. The soils encountered below the topsoil were jumbled layers of clay, silt and silty clay to six feet bgs over clay. A perched groundwater was encountered. Soil samples were collected at the groundwater interface and within the clay. This boring was near to the septic tanks and was likely disturbed during installation of the tanks. A temporary well was set within the boring.

Soil boring GP-7 was placed to define soil and groundwater contamination. Indication of soil contamination was not encountered during field screening from 0 to 12 feet bgs, samples registered a PID reading of 0.0 ppm eq, and no odors were observed. The soils encountered below the asphalt and pavement base were brown clay and sandy clay to six feet bgs over hard clay. A perched groundwater was encountered. Soil samples were collected at the groundwater interface and within the hard clay. A temporary well was set within the boring.

Soil boring log documentation is located in Appendix C. Please refer to the Soil Boring Map figure located in Appendix A for soil boring locations.

5.0 Laboratory Analytical Results

5.1 Soil Samples

Soil sample GP-1, S-4, collected at 6 to 8 ft bgs, results reported no detections of petroleum volatile organic compounds (PVOCs) and naphthalene above laboratory method detection limits.

Soil sample GP-2, S-3, had a PID reading of 24 ppm and smelled of gasoline. It was collected at 4 to 6 ft bgs, results reported detections of ethylbenzene (155 ppb), naphthalene (3,230 ppb), 1,2,4-trimethylbenzene (TMB)(1,220 ppb), 1,3,5-TMB (424 ppb) and total xylenes (733 ppb). The detection of naphthalene exceeds the Groundwater Protection Residual Contaminant Level (GWRCL).

Soil sample GP-2, S-6, collected at 10 to 12 ft bgs, results reported no detections of petroleum volatile organic compounds (PVOCs) and naphthalene above laboratory method detection limits.

Soil sample GP-3, S-3, collected at 4 to 6 ft bgs, results reported no detections of petroleum volatile organic compounds (PVOCs) and naphthalene above laboratory method detection limits.

Soil sample GP-3, S-5, collected at 8 to 10 ft bgs, results reported no detections of petroleum volatile organic compounds (PVOCs) and naphthalene above laboratory method detection limits.

Soil sample GP-4, S-5, collected at 8 to 10 ft bgs, results reported no detections of petroleum volatile organic compounds (PVOCs) and naphthalene above laboratory method detection limits.

Soil sample GP-5, S-3, collected at 4 to 6 ft bgs, results reported no detections of petroleum volatile organic compounds (PVOCs) and naphthalene above laboratory method detection limits.

Soil sample GP-5, S-5, collected at 8 to 10 ft bgs, results reported no detections of petroleum volatile organic compounds (PVOCs) and naphthalene above laboratory method detection limits.

Soil sample GP-6, S-3, collected at 4 to 6 ft bgs, results reported no detections of petroleum volatile organic compounds (PVOCs) and naphthalene above laboratory method detection limits.

Soil sample GP-6, S-5, collected at 8 to 10 ft bgs, results reported no detections of petroleum volatile organic compounds (PVOCs) and naphthalene above laboratory method detection limits.

Soil sample GP-7, S-3, collected at 4 to 6 ft bgs, results reported no detections of petroleum volatile organic compounds (PVOCs) and naphthalene above laboratory method detection limits.

Soil sample GP-7, S-5, collected at 8 to 10 ft bgs, results reported no detections of petroleum volatile organic compounds (PVOCs) and naphthalene above laboratory method detection limits.

The soil data table is located in Appendix B and Laboratory Analytical Report is located in Appendix D.

5.2 Groundwater Samples

Groundwater was sampled from each well on April 21, 2014. Water levels were measured from each well and monitoring well MW-1 was developed. Each sample was submitted to Pace Analytical for analysis of volatile organic compounds (VOCs).

Monitoring well MW-1 reported a detection of MTBE (0.47 ppb) that was "J-flagged" by the laboratory. No other VOCs were reported above laboratory detection limits. The detection of MTBE did not exceed the enforcement standard.

Temporary monitoring well TMW-2 reported no detections of VOCs above laboratory detection limits.

Temporary monitoring well TMW-3 reported no detections of VOCs above laboratory detection limits.

Temporary monitoring well TMW-4 reported no detections of VOCs above laboratory detection limits.

The groundwater data table is located in Appendix B and Laboratory Analytical Report is located in Appendix D.

6.0 Discussion

On April 7, 2014, Mach IV Engineering installed seven soil borings, collected twelve soil samples to define soil contamination and installed one standard monitoring well in the source area and three temporary groundwater wells to define groundwater contamination.

Soil Results

Soil contamination was discovered beneath the UST bed in soil boring GP-2. The contamination had a gasoline odor and contained typical gasoline compounds and naphthalene. Naphthalene and 1,2,4-TMB exceeded the groundwater RCL and naphthalene exceeded the SSRCL. The soil contamination did not extend beneath the vadose zone. There is a confining layer of hard clay at approximately 8 feet bgs across the site. There were no detections of PVOCs or naphthalene in any other soil samples in any boring.

The soil contamination is contained to a small area in the vicinity of soil boring GP-2. It is unlikely based on field screening and laboratory data that any soils on-site exceed direct contact standards.

Groundwater Results

There was only one detection found in monitoring well MW-1; MTBE at 0.47 ppb. There were no detections of any VOCs found in the other wells. The detection of MTBE was J-flagged by the laboratory. J-flagged detections are very small and not within the calibrated curve. The detection of MTBE is well below the enforcement standard.

7.0 OPINION

Risk Assessment Level	
	<p>Based on the opinions formulated during the completion of a Phase II Environmental Site Assessment by an Environmental Professional, the subject property represents the following level of risk for contamination:</p> <p><input checked="" type="radio"/> Low Risk No evidence of environmental concerns which indicate the need for further investigation or review at this time.</p> <p><input type="radio"/> High Risk Evidence of environmental concerns with the subject property which necessitate the need for Site Investigation and potentially Remedial Work.</p>

Information gathered by Mach IV during the Phase II ESA appears to be consistent and indicates that historical use of petroleum UST has led to a release at the Site, but does not pose a significant threat.

8.0 CONCLUSIONS & RECOMMENDATIONS

It is Mach IV's opinion that use of a gasoline UST at the Site has led to a release on the property.

Mach IV's opinion is based on the field and laboratory data collected and data interpretation.

The remaining soil contamination is localized to one area and is located at least three feet below the ground surface. Mach IV reviewed the WDOT plans for the area. The location of the contamination is near the toe of slope for the future off ramp construction and does not appear to be planned for disturbance. Since the soil will not be disturbed during construction and there is little to no groundwater contamination, the soil can remain in place indefinitely.

Mach IV recommends that no further Site Investigation activities be completed on Site and the case be considered for closure by the WDNR.

10.0 SIGNATURE(S) OF ENVIRONMENTAL PROFESSIONAL(S)

I, Chad M. Fradette, possess sufficient specific education, training, and experience necessary to exercise professional judgment to develop opinions and conclusions regarding conditions indicative of releases or threatened releases, per ASTM E 1527-05, Section 7.5.1.

I, Chad M. Fradette, meet the definition of Environmental Professional per ASTM E 1527-05, Section Z2.1.1(3)(iii). I possess a Baccalaureate or higher degree from an accredited institution of higher education in a discipline of engineering or science and the equivalent of fifteen (15) years of full-time relevant experience.

I declare that, to the best of my professional knowledge and belief, I meet the definition of Environmental Professional as defined in 40 CFR 312.10. I have the specific qualifications based on education, training, and experience to assess a property of the nature, history, and setting of the Subject Property. I have developed and performed the all appropriate inquiries in conformance with the standards and practices set forth in 40 CFR Part 312.

In addition, the undersigned acknowledge and agree that the above-noted declarations and statements are accurate with regard to the subject matter of this report.



May 29, 2014

Chad M. Fradette, EP
Director of Environmental Services

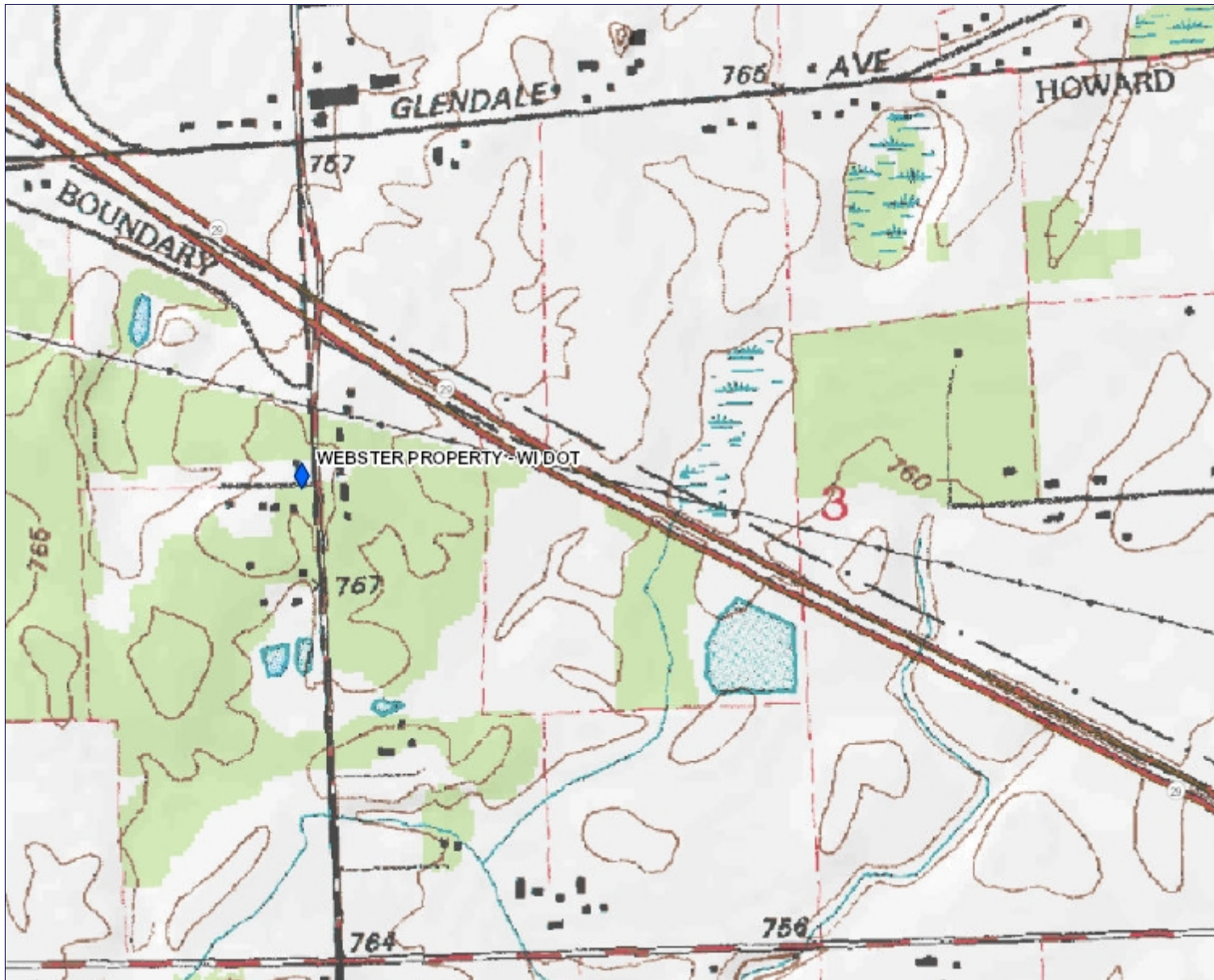
Date

APPENDIX A

Site Figures



Site Location Map



Legend

- Open Site (ongoing cleanup)
- Open Site Boundary
- Closed Site (completed cleanup)
- Closed Site Boundary
- Great Lakes
- Cities
- Villages

0.3 0 0.16 0.3 Miles

NAD_1983_HARN_Wisconsin_TM

© Latitude Geographics Group Ltd.

1: 10,189



DISCLAIMER: The information shown on these maps has been obtained from various sources, and are of varying age, reliability and resolution. These maps are not intended to be used for navigation, nor are these maps an authoritative source of information about legal land ownership or public access. No warranty, expressed or implied, is made regarding accuracy, applicability for a particular use, completeness, or legality of the information depicted on this map. For more information, see the DNR Legal Notices web page: <http://dnr.wi.gov/legal/>

Note: Not all sites are mapped.

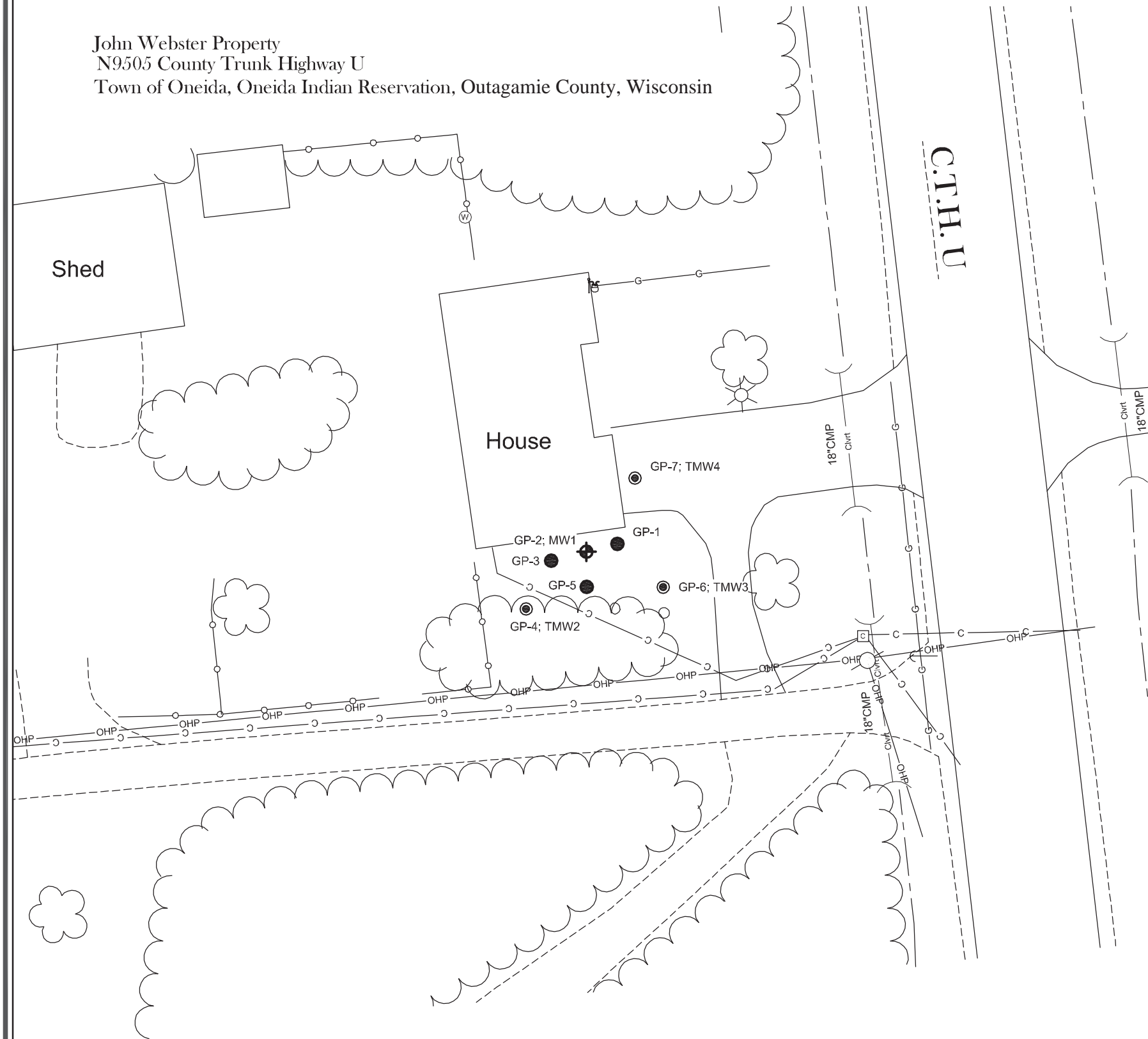
Notes

John Webster Residence/WDOT
N9505 CTH U
Town of Oneida, Outagamie County
Wisconsin

Figure 1 Site Map

APRIL 21, 2014

John Webster Property
N9505 County Trunk Highway U
Town of Oneida, Oneida Indian Reservation, Outagamie County, Wisconsin



MONITORING WELL INFORMATION

MONITORING WELL #1

Ground Elevation = 101.23
Rim Elevation = 101.23
Pipe Elevation =

TEMPORARY MONITORING WELL #2

Ground Elevation = 100.20
Rim Elevation = 100.15
Pipe Elevation =





TEMPORARY MONITORING WELL #3

Ground Elevation = 101.55
Rim Elevation = 101.55
Pipe Elevation =

TEMPORARY MONITORING WELL #4

Ground Elevation = 100.45
Rim Elevation = 100.24
Pipe Elevation =

Legend

-  GP-2; MW1 Permanent Well Location (8) Boring Locations
-  GP-6; TMW3 Temporary Well Location (2) Boring Locations
-  GP-1 Boring Location
-  Potable Well Location



Sheet One of Two
Project No. 0721-01-14
Drawing No. 936

Client: John Webster
N9505 County Trunk Highway U
Drafted By: RPH
Tax Parcel No.:





Mach IV
Engineering & Surveying LLC
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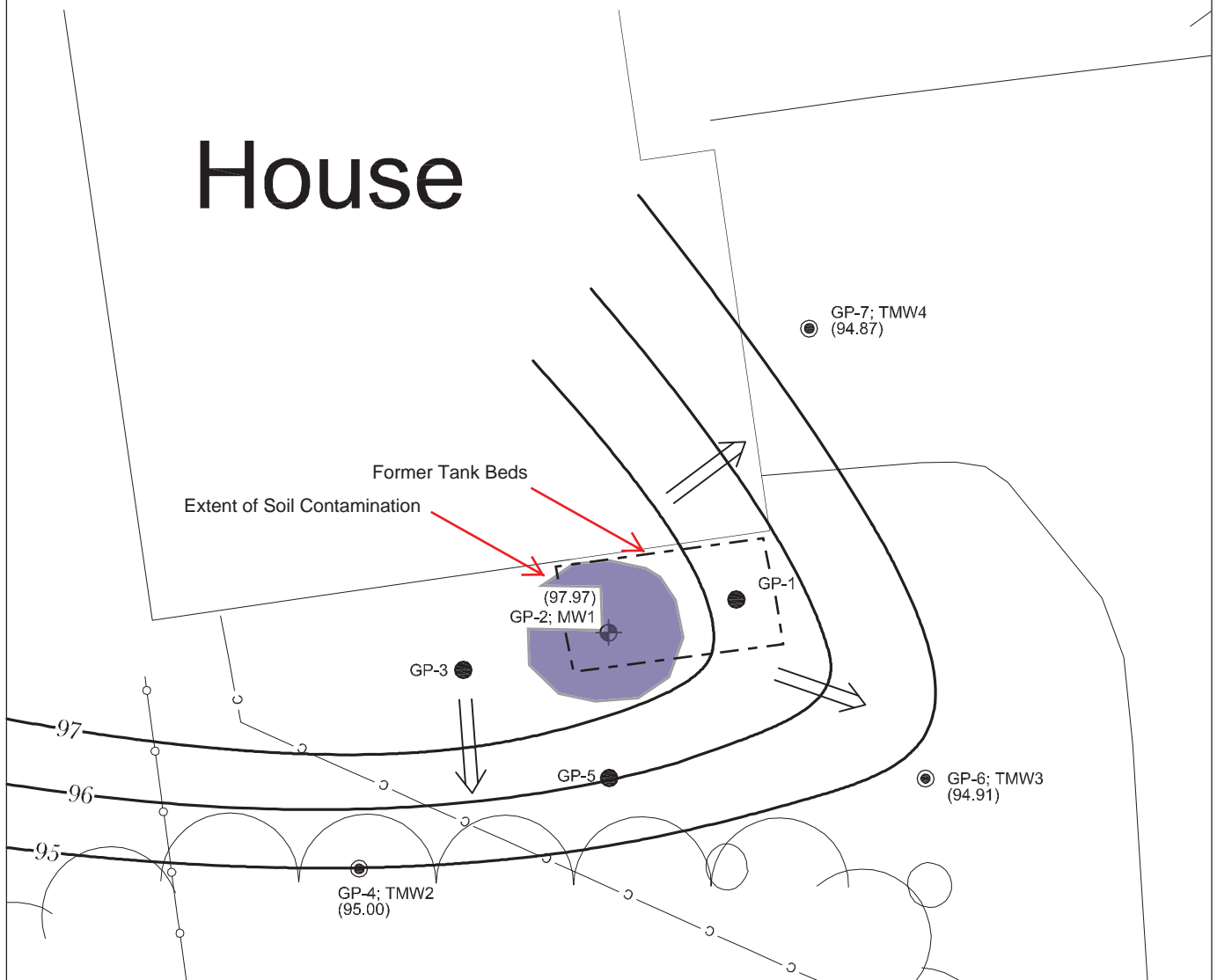
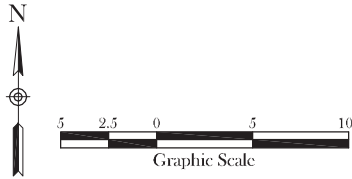
Figure 2 Groundwater Flow Direction

APRIL 21, 2014

Webster Property
 N9505 County Trunk Highway U
 Town of Oneida, Oneida Indian Reservation,
 Outagamie County, Wisconsin

Legend

-  GP-2; MW1 Permanent Well Location (8) Boring Locations
-  GP-6; TMW3 Temporary Well Location (2) Boring Locations
-  GP-1 Boring Location
-  (97.97) Groundwater Elevation



Mach IV

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Client: John Webster

Drafted By: RPH

Tax Parcel No.:

Scale:

1" = 10'

Sheet One of Two

Project No. 0721-01-14

Drawing No. 936

APPENDIX B

Data Tables

Soil Sample Laboratory Analytical Results

John Webster Residence/WDOT

N9505 CTH U, Town of Oneida, Outagamie County, Wisconsin

Mach IV Engineering, Project No. 0721-01-14

Analyte	GP-1, S-4	GP-2, S-3	GP-2, S-6	GP-3, S-3	GP-3, S-5	GP-4, S-5	GP-5, S-3	GP-5, S-5	GP-6, S-3	GP-6, S-5	GP-7, S-3	GP-7, S-5	Non Industrial		
Sampling Date	4/7/2014	4/7/2014	4/7/2014	4/7/2014	4/7/2014	4/7/2014	4/7/2014	4/7/2014	4/7/2014	4/7/2014	4/7/2014	4/7/2014	Groundwater RCL	Direct Contact RCL	
Depth ft bgs*	6.0 - 8.0	4.0 - 6.0	10.1 - 12.0	4.0 - 6.0	8.0 - 10.0	4.0 - 6.0	4.0 - 6.0	8.0 - 10.0	4.0 - 6.0	8.0 - 10.0	4.0 - 6.0	8.0 - 10.0			
Photoionization Detector ppm eq	0.0	24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
Odor	none	gasoline	none	none	none	none	none	none	none	none	none	none			
Description	sandy clay below tank backfill	sandy clay below tank backfill	clay in vadose zone	sandy clay in vadose zone	hard caly	hard clay	sandy clay in vadose zone	sandy clay	silty clay in vadose zone	clay	sandy clay in vadose zone	hard clay			
Petroleum Volatile Organic Compounds (PVOCs) and Naphthalene, ppb															
Benzene	<25.0	<50.0	<25.0	<35.7	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	5.1	<u>1,490</u>	
Ethylbenzene	<25.0	155	<25.0	<35.7	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	1,570	<u>7,470</u>	
MTBE	<25.0	<50.0	<25.0	<u><35.7</u>	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	27	<u>59,400</u>	
Naphthalene	<25.0	3,230	<25.0	<35.7	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	659	<u>5,150</u>	
Toluene	<25.0	<50.0	<25.0	<35.7	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	1,107	<u>818,000</u>	
1,2,4-Trimethylbenzene	<25.0	1,220	<25.0	<35.7	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	1,379	<u>89,800</u>	
1,3,5-Trimethylbenzene	<25.0	424	<25.0	<71.4	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	NS	<u>182,000</u>	
Total Xylenes	<75.0	733	<75.0	<35.7	<75.0	<75.0	<75.0	<75.0	<75.0	<75.0	<75.0	<75.0	3,940	<u>258,000</u>	

Note:

ppb

ft bgs

**

NA

parts per billion (ug/kg)

feet below ground surface

exceeds direct contact standard, but is located greater than 4 feet below surface

Not analyzed

Groundwater Sample Laboratory Analytical Results
John Webster Residence/WDOT
N9505 CTH U, Town of Oneida, Outagamie County, Wisconsin
Mach IV Engineering, Project No. 0721-01-14

Well Number	MW-1	TMMW-2	TMW-3	TMW-4	NR 140 Preventive Action Limit	NR 140 Enforcement Standard
Sampling Date	4/21/2014	4/21/2014	4/21/2014	4/21/2014		
<i>Detected and Selected Volatile Organic Compounds (VOCs), ppb</i>						
Benzene	<0.50	<0.50	<0.50	<0.50	0.5	5
Ethylbenzene	<0.50	<0.50	<0.50	<0.50	140	700
Methylene Chloride	<0.23	<0.23	<0.23	<0.23	0.5	5
MTBE	0.47 J	<0.17	<0.17	<0.17	12	60
Naphthalene	<2.5	<2.5	<2.5	<2.5	10	100
Tetrachloroethene	<0.50	<0.50	<0.50	<0.50	0.5	5
Toluene	<0.50	<0.50	<0.50	<0.50	160	800
Trichloroethene	<0.33	<0.33	<0.33	<0.33	0.5	5
1,2,4-Trimethylbenzene	<0.50	<0.50	<0.50	<0.50	NS	NS
1,3,5-Trimethylbenzene	<0.50	<0.50	<0.50	<0.50	NS	NS
Xylenes	<1.50	<1.50	<1.50	<1.50	400	2,000

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

APPENDIX C

Field Notes and Borehole Documentation

Route To: Watershed/Wastewater Waste Management
Remediation/Revelpment Other

Page ____ of ____

Facility/Project Name Webster Property/WDOT			License/Permit/Monitoring Number		Boring Number GP- 1
Boring Drilled By: Name of crew chief (first, last) and Firm First Name: Darrin Last Name: Prentice Firm: Geiss Soil & Samples			Date Drilling Started 04 / 07 / 2014 m m d d y y y y	Date Drilling Completed 04 / 07 / 2014 m m d d y y y y	Drilling Method Geoprobe
WI Unique Well No.	DNR Well ID No.	Well Name	Final Static Water Level Feet MSL	Surface Elevation Feet MSL	Borehole Diameter 2 inches
Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/>) or Boring Location <input type="checkbox"/> State Plane _____ N, _____ E _____ 1/4 of _____ 1/4 of Section _____, T _____ N, R _____			Lat _____" Long _____"	Local Grid Location <input type="checkbox"/> N <input type="checkbox"/> E <input type="checkbox"/> S _____ Feet <input type="checkbox"/> W	
Facility ID 9505 CTH U		County Outagamie	County Code 45	Civil Town/City/ or Village Town of Oneida	

Sample Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth in Feet (Below ground surface)	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties					RQD/ Comments				
									Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200					
S-1	0		0	tank	F													
			1	back fill														
S-2	0		2	gravel	FI													
			3															
S-3	20		4	br sandy clay	CL			0.0										
			5		SP													
S-4	20		6		CL			0.0										
			7		SP													PVOCs naph
S-5	24		8	perched gw	CLSP			0.0										
			9															
S-6	24		10	hard clay	CL			0.0										
			11															
S-7			12	EOB														
			13															
S-8			14															
			15															
			16															

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature *Charles J. Trout* Firm Mach IV Engineering & Surveying

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

Notice: Completion of this report is required by chs. 160, 281, 283, 289, 291-293, 295, and 299, Wis. Stats., and ch. NR 141, Wis. Adm. Code. In accordance with chs. 281, 289, 291-293, 295, and 299, Wis. Stats., failure to file this form may result in a forfeiture of between \$10-25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. Return form to the appropriate DNR office and bureau. See instructions on reverse for more information.

<input type="checkbox"/> Verification Only of Fill and Seal	Route to: <input type="checkbox"/> Drinking Water <input type="checkbox"/> Watershed/Wastewater <input type="checkbox"/> Waste Management <input type="checkbox"/> Other: _____	<input checked="" type="checkbox"/> Remediation/Redevelopment
--	--	---

1. Well Location Information				2. Facility / Owner Information			
County Outagamie		WI Unique Well # of Removed Well _____		Hicap # _____		Facility Name Webster Property/WDOT	
Latitude / Longitude (Degrees and Minutes) 44 ° 34.912 ' N		Method Code (see instructions) _____		Facility ID (FID or PWS) _____		License/Permit/Monitoring # GP- 1	
88 ° 11.463 ' W		Section _____		Township N		Original Well Owner John Webster	
1/4 / 1/4 or Gov't Lot #		Range <input type="checkbox"/> E <input type="checkbox"/> W		Present Well Owner same		Mailing Address of Present Owner 3781 Hillcrest Drive	
Well Street Address N9505 CTH U				City of Present Owner Green Bay		State WI	ZIP Code 54313
Well City, Village or Town Town of Oneida				Well ZIP Code 54313		City of Present Owner Green Bay	
Subdivision Name				Lot #		State WI	

Reason For Removal From Service Temporary Boring		WI Unique Well # of Replacement Well _____		4. Pump, Liner, Screen, Casing & Sealing Material			
<input type="checkbox"/> Monitoring Well		Original Construction Date (mm/dd/yyyy) 04/07/2014		Pump and piping removed?		<input type="checkbox"/> Yes	<input type="checkbox"/> No
<input type="checkbox"/> Water Well		If a Well Construction Report is available, please attach.		Liner(s) removed?		<input type="checkbox"/> Yes	<input type="checkbox"/> No
<input checked="" type="checkbox"/> Borehole / Drillhole				Screen removed?		<input type="checkbox"/> Yes	<input type="checkbox"/> No
Construction Type: <input checked="" type="checkbox"/> Drilled <input type="checkbox"/> Driven (Sandpoint) <input type="checkbox"/> Dug				Casing left in place?		<input type="checkbox"/> Yes	<input type="checkbox"/> No
<input type="checkbox"/> Other (specify): _____				Was casing cut off below surface?		<input type="checkbox"/> Yes	<input type="checkbox"/> No
Formation Type: <input checked="" type="checkbox"/> Unconsolidated Formation <input type="checkbox"/> Bedrock				Did sealing material rise to surface?		<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
Total Well Depth From Ground Surface (ft.) 12				Casing Diameter (in.) _____		Did material settle after 24 hours?	
Lower Drillhole Diameter (in.) 2				Casing Depth (ft.) _____		If yes, was hole retopped?	
Was well annular space grouted? NA <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown				If bentonite chips were used, were they hydrated with water from a known safe source?		<input type="checkbox"/> Yes	<input type="checkbox"/> No
If yes, to what depth (feet)? 12				Depth to Water (feet) 8.5 perched		Required Method of Placing Sealing Material	
						<input type="checkbox"/> Conductor Pipe-Gravity <input type="checkbox"/> Conductor Pipe-Pumped	
						<input checked="" type="checkbox"/> Screened & Poured (Bentonite Chips) <input type="checkbox"/> Other (Explain): _____	

Sealing Materials			
<input type="checkbox"/> Neat Cement Grout		<input type="checkbox"/> Clay-Sand Slurry (11 lb./gal. wt.)	
<input type="checkbox"/> Sand-Cement (Concrete) Grout		<input type="checkbox"/> Bentonite-Sand Slurry " "	
<input type="checkbox"/> Concrete		<input checked="" type="checkbox"/> Bentonite Chips	
For Monitoring Wells and Monitoring Well Boreholes Only:			
<input checked="" type="checkbox"/> Bentonite Chips		<input type="checkbox"/> Bentonite - Cement Grout	
<input type="checkbox"/> Granular Bentonite		<input type="checkbox"/> Bentonite - Sand Slurry	

5. Material Used To Fill Well / Drillhole	From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
3/8 inch chipped bentonite	Surface	12	0.6	100% Bentonite

6. Comments

7. Supervision of Work				DNR Use Only	
Name of Person or Firm Doing Filling & Sealing Chad M Fradette		License # 892926	Date of Filling & Sealing (mm/dd/yyyy) 04/07/2014	Date Received	Noted By
Street or Route 211 N Broadway, Ste 114			Telephone Number (920) 569-5765	Comments	
City Green Bay	State WI	ZIP Code 54303	Signature of Person Doing Work <i>Chad M Fradette</i>	Date Signed 05/10/2014	

Route To: Watershed/Wastewater Waste Management
Remediation/Revelpment Other

Page ____ of ____

Facility/Project Name Webster Property/WDOT		License/Permit/Monitoring Number	Boring Number GP-2
Boring Drilled By: Name of crew chief (first, last) and Firm First Name: Darrin Last Name: Prentice Firm: Geiss Soil & Samples		Date Drilling Started 04 / 07 / 2014 m m d d y y y y	Date Drilling Completed 04 / 07 / 2014 m m d d y y y y
WI Unique Well No.	DNR Well ID No.	Well Name	Drilling Method Geoprobe
		Final Static Water Level Feet MSL	Surface Elevation Feet MSL
			Borehole Diameter 2 inches
Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/>) or Boring Location <input type="checkbox"/> State Plane N , E		Lat 0 ' "	Local Grid Location <input type="checkbox"/> N <input type="checkbox"/> E <input type="checkbox"/> S <input type="checkbox"/> W
1/4 of ____ 1/4 of Section ____ T ____ N, R ____		Long 0 ' "	Feet <input type="checkbox"/> S <input type="checkbox"/> Feet <input type="checkbox"/> W
Facility ID 9505 CTH U	County Outagamie	County Code 45	Civil Town/City/ or Village Town of Oneida

Sample Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth in Feet (Below ground surface)	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties					RQD/ Comments	
									Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200		
S-1	1		0	tank back fill	FI										
S-2	2		2	gravel	FI			8							
S-3	12		4	br sandy clay	CL SP			24			gasoline odor			PROCs naph	
S-4	12		6		CL SP			8							
S-5	24		8	hard clay	CL			1.4							
S-6	24		10		CL			0.2						PROCs naph	
S-7			12	converted to permanent well	CL										
S-8			14												
			15												
			16												

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature Chad M. Fradette Firm Mach IV Engineering & Surveying

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

Facility/Project Name <u>Webster Property</u>	Local Grid Location of Well ft. <input type="checkbox"/> N. <input type="checkbox"/> S. <input type="checkbox"/> E. <input type="checkbox"/> W.	Well Name
Facility License, Permit or Monitoring No.	Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/>) or Well Location <input type="checkbox"/> Lat. " " Long. " " or " " or	Wis. Unique Well No. <u>VZ 235</u> DNR Well ID No.
Facility ID	St. Plane _____ ft. N. _____ ft. E. S/C/N	Date Well Installed <u>04, 07, 2014</u> m m d d y y v v
Type of Well Well Code <u>11, MW</u>	Section Location of Waste/Source 1/4 of _____ 1/4 of Sec. _____ T. _____ N, R. <input type="checkbox"/> E <input type="checkbox"/> W	Well Installed By: Name (first, last) and Firm <u>Darrin Prentice</u> <u>Geiss Soil + Samples LLC</u>
Distance from Waste/Source _____ ft.	Enf. Stds. Apply <input type="checkbox"/>	
	Location of Well Relative to Waste/Source u <input type="checkbox"/> Upgradient s <input type="checkbox"/> Sidegradient d <input type="checkbox"/> Downgradient n <input type="checkbox"/> Not Known	

A. Protective pipe, top elevation _____ ft. MSL	1. Cap and lock? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
B. Well casing, top elevation _____ ft. MSL	2. Protective cover pipe: a. Inside diameter: _____ in. b. Length: _____ ft. c. Material: Steel <input checked="" type="checkbox"/> 04 Other <input type="checkbox"/>
C. Land surface elevation _____ ft. MSL	d. Additional protection? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, describe: _____
D. Surface seal, bottom _____ ft. MSL or <u>0</u> ft.	3. Surface seal: Bentonite <input checked="" type="checkbox"/> 30 Concrete <input type="checkbox"/> 01 Other <input type="checkbox"/>
12. USCS classification of soil near screen: GP <input type="checkbox"/> GM <input type="checkbox"/> GC <input type="checkbox"/> GW <input type="checkbox"/> SW <input type="checkbox"/> SP <input type="checkbox"/> SM <input type="checkbox"/> SC <input type="checkbox"/> ML <input type="checkbox"/> MH <input type="checkbox"/> CL <input type="checkbox"/> CH <input type="checkbox"/> Bedrock <input type="checkbox"/>	4. Material between well casing and protective pipe: Bentonite <input checked="" type="checkbox"/> 30 Other <input type="checkbox"/>
13. Sieve analysis performed? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	5. Annular space seal: a. Granular/Chipped Bentonite <input checked="" type="checkbox"/> 33 b. _____ Lbs/gal mud weight . . . Bentonite-sand slurry <input type="checkbox"/> 35 c. _____ Lbs/gal mud weight Bentonite slurry <input type="checkbox"/> 31 d. _____ % Bentonite Bentonite-cement grout <input type="checkbox"/> 50 e. _____ Ft ³ volume added for any of the above f. How installed: Tremie <input type="checkbox"/> 01 Tremie pumped <input type="checkbox"/> 02 Gravity <input checked="" type="checkbox"/> 08
14. Drilling method used: Rotary <input type="checkbox"/> 50 Hollow Stem Auger <input checked="" type="checkbox"/> 41 Other <input type="checkbox"/>	6. Bentonite seal: a. Bentonite granules <input type="checkbox"/> 33 b. <input type="checkbox"/> 1/4 in. <input checked="" type="checkbox"/> 3/8 in. <input type="checkbox"/> 1/2 in. Bentonite chips <input checked="" type="checkbox"/> 32 c. _____ Other <input type="checkbox"/>
15. Drilling fluid used: Water <input type="checkbox"/> 02 Air <input type="checkbox"/> 01 Drilling Mud <input type="checkbox"/> 03 None <input checked="" type="checkbox"/> 99	7. Fine sand material: Manufacturer, product name & mesh size a. <u># 15 Red Flint</u> b. Volume added _____ ft ³
16. Drilling additives used? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	8. Filter pack material: Manufacturer, product name & mesh size a. <u># 40 Red Flint</u> b. Volume added _____ ft ³
Describe _____	9. Well casing: Flush threaded PVC schedule 40 <input checked="" type="checkbox"/> 23 Flush threaded PVC schedule 80 <input type="checkbox"/> 24 Other <input type="checkbox"/>
17. Source of water (attach analysis, if required): _____	10. Screen material: <u>PVC</u> a. Screen type: Factory cut <input checked="" type="checkbox"/> 11 Continuous slot <input type="checkbox"/> 01 Other <input type="checkbox"/>
E. Bentonite seal, top _____ ft. MSL or <u>5</u> ft.	b. Manufacturer <u>Monoflex</u>
F. Fine sand, top _____ ft. MSL or <u>1.5</u> ft.	c. Slot size: <u>0.010</u> in.
G. Filter pack, top _____ ft. MSL or <u>1.5</u> ft.	d. Slotted length: <u>10</u> ft.
H. Screen joint, top _____ ft. MSL or <u>2</u> ft.	11. Backfill material (below filter pack): None <input type="checkbox"/> 14 Other <input checked="" type="checkbox"/>
I. Well bottom _____ ft. MSL or <u>12</u> ft.	
J. Filter pack, bottom _____ ft. MSL or <u>13</u> ft.	
K. Borehole, bottom _____ ft. MSL or <u>13</u> ft.	
L. Borehole, diameter <u>8.25</u> in.	
M. O.D. well casing <u>2.40</u> in.	
N. I.D. well casing <u>2.06</u> in.	

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature Darrin Prentice Firm Geiss Soil + Samples LLC

Please complete both Forms 4400-113A and 4400-113B and return them to the appropriate DNR office and bureau. Completion of these reports is required by chs. 160, 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats., and ch. NR 141, Wis. Adm. Code. In accordance with chs. 281, 289, 291, 292, 293, 295, and 299, Wis. Stats., failure to file these forms may result in a forfeiture of between \$10 and \$25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on these forms is not intended to be used for any other purpose. NOTE: See the instructions for more information, including where the completed forms should be sent.

Route to: Watershed/Wastewater Waste Management
Remediation/Redevelopment Other

Facility/Project Name John Webster Residence/WDOT	County Name Outagamie	Well Name MW-1
Facility License, Permit or Monitoring Number	County Code 45	Wis. Unique Well Number VZ235
		DNR Well ID Number

1. Can this well be purged dry? Yes No

2. Well development method

surged with bailer and bailed	<input checked="" type="checkbox"/>	4 1
surged with bailer and pumped	<input type="checkbox"/>	6 1
surged with block and bailed	<input type="checkbox"/>	4 2
surged with block and pumped	<input type="checkbox"/>	6 2
surged with block, bailed and pumped	<input type="checkbox"/>	7 0
compressed air	<input type="checkbox"/>	2 0
bailed only	<input type="checkbox"/>	1 0
pumped only	<input type="checkbox"/>	5 1
pumped slowly	<input type="checkbox"/>	5 0
Other _____	<input type="checkbox"/>	

3. Time spent developing well _____ 65 _____ min.

4. Depth of well (from top of well casing) _____ 15.34 _____ ft.

5. Inside diameter of well _____ 2.06 _____ in.

6. Volume of water in filter pack and well casing _____ 2.5 _____ gal.

7. Volume of water removed from well _____ 15 _____ gal.

8. Volume of water added (if any) _____ 0.0 _____ gal.

9. Source of water added _____

10. Analysis performed on water added? Yes No
(If yes, attach results)

	Before Development	After Development
11. Depth to Water (from top of well casing)	a. _____ 5.48 _____ ft.	_____ 6.08 _____ ft.
Date	b. _____ 04/21/2014 _____	_____ 04/21/2014 _____
Time	c. _____ 10:15 _____ <input checked="" type="checkbox"/> a.m. _____	_____ 11:30 _____ <input checked="" type="checkbox"/> a.m. _____
12. Sediment in well bottom	_____ 0.06 _____ inches	_____ 0.00 _____ inches
13. Water clarity	Clear <input type="checkbox"/> 1 0 Turbid <input checked="" type="checkbox"/> 1 5 (Describe) silty	Clear <input checked="" type="checkbox"/> 2 0 Turbid <input type="checkbox"/> 2 5 (Describe)
Fill in if drilling fluids were used and well is at solid waste facility:		
14. Total suspended solids	_____ mg/l	_____ mg/l
15. COD	_____ mg/l	_____ mg/l
16. Well developed by: Name (first, last) and Firm		
First Name:	Chad	Last Name: Fradette
Firm:	Mach IV Engineering & Surveying LLC	

17. Additional comments on development:

Name and Address of Facility Contact/Owner/Responsible Party

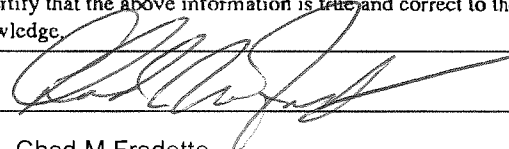
First Name: Steve Last Name: Webster

Facility/Firm: _____

Street: 3781 Hillcrest Drive

City/State/Zip: Green Bay, WI 54313

I hereby certify that the above information is true and correct to the best of my knowledge.

Signature: 

Print Name: Chad M Fradette

Firm: Mach IV Engineering

NOTE: See instructions for more information including a list of county codes and well type codes.

Route To: Watershed/Wastewater Waste Management
Remediation/Revelopment Other

Page _____ of _____

Facility/Project Name Webster Property/WDOT		License/Permit/Monitoring Number	Boring Number GP-3
Boring Drilled By: Name of crew chief (first, last) and Firm First Name: Darrin Last Name: Prentice Firm: Geiss Soil & Samples		Date Drilling Started 04 / 07 / 2014 m m d d y y y y	Date Drilling Completed 04 / 07 / 2014 m m d d y y y y
WI Unique Well No.	DNR Well ID No.	Well Name	Drilling Method Geoprobe
		Final Static Water Level Feet MSL	Surface Elevation Feet MSL
			Borehole Diameter 2 inches
Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/>) or Boring Location <input type="checkbox"/> State Plane N, _____ E		Lat 0 ' "	Local Grid Location <input type="checkbox"/> N <input type="checkbox"/> E <input type="checkbox"/> S <input type="checkbox"/> W
1/4 of _____ 1/4 of Section _____, T _____ N, R _____		Long 0 ' "	Feet _____ Feet _____
Facility ID 9505 CTH U	County Outagamie	County Code 45	Civil Town/City/ or Village Town of Oneida

Sample Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth in Feet (Below ground surface)	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties					RQD/ Comments
									Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	
S-1	12		0 1	top soil	TO			0-2						
S-2	12		2 3	br sandy clay	CL SP			0.0						
S-3	24		4 5	br sandy clay 4'	CL SP			0.0						
S-4	24		6 7	w/ gravel	CL GP			0.0						
S-5	24		8 9	hard clay	CL			0.0						
S-6	24		10 11	↓	CL			0.0						
S-7			12 13	EoB										
S-8			14 15											
			16											

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature *Charles M. Fradette* Firm **Mach IV Engineering & Surveying**

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

Well / Drillhole / Borehole Filling & Sealing

Form 3300-005 (R 4/08)

Notice: Completion of this report is required by chs. 160, 281, 283, 289, 291-293, 295, and 299, Wis. Stats., and ch. NR 141, Wis. Adm. Code. In accordance with chs. 281, 289, 291-293, 295, and 299, Wis. Stats., failure to file this form may result in a forfeiture of between \$10-25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. Return form to the appropriate DNR office and bureau. See instructions on reverse for more information.

<input type="checkbox"/> Verification Only of Fill and Seal	Route to: <input type="checkbox"/> Drinking Water <input type="checkbox"/> Watershed/Wastewater <input checked="" type="checkbox"/> Remediation/Redevelopment <input type="checkbox"/> Waste Management <input type="checkbox"/> Other: _____
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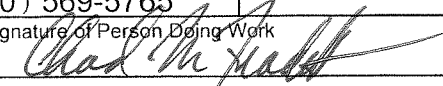
1. Well Location Information	2. Facility / Owner Information
County: <u>Outagamie</u>	Facility Name: <u>Webster Property/WDOT</u>
Latitude / Longitude (Degrees and Minutes): <u>44</u> ° <u>34.912</u> ' N <u>88</u> ° <u>11.463</u> ' W	Facility ID (FID or PWS): _____
Method Code (see instructions): _____	License/Permit/Monitoring #: <u>GP-3</u>
Original Well Owner: <u>John Webster</u>	Present Well Owner: <u>same</u>
Mailing Address of Present Owner: <u>3781 Hillcrest Drive</u>	City of Present Owner: <u>Green Bay</u> State: <u>WI</u> ZIP Code: <u>54313</u>
Well Street Address: <u>N9505 CTH U</u>	
Well City, Village or Town: <u>Town of Oneida</u>	
Well ZIP Code: <u>54313</u>	
Subdivision Name: _____	
Lot #: _____	

Reason For Removal From Service: <u>Temporary Boring</u>	WI Unique Well # of Replacement Well: _____
3. Well / Drillhole / Borehole Information	
<input type="checkbox"/> Monitoring Well <input type="checkbox"/> Water Well <input checked="" type="checkbox"/> Borehole / Drillhole	Original Construction Date (mm/dd/yyyy): <u>04/07/2014</u> If a Well Construction Report is available, please attach.
Construction Type: <input checked="" type="checkbox"/> Drilled <input type="checkbox"/> Driven (Sandpoint) <input type="checkbox"/> Dug <input type="checkbox"/> Other (specify): _____	
Formation Type: <input checked="" type="checkbox"/> Unconsolidated Formation <input type="checkbox"/> Bedrock	
Total Well Depth From Ground Surface (ft.): <u>12</u>	Casing Diameter (in.): _____
Lower Drillhole Diameter (in.): <u>2</u>	Casing Depth (ft.): _____
Was well annular space grouted? <u>NA</u> <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown	
If yes, to what depth (feet)? _____	Depth to Water (feet): _____

4. Pump, Liner, Screen, Casing & Sealing Material	
Pump and piping removed?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A
Liner(s) removed?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A
Screen removed?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A
Casing left in place?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A
Was casing cut off below surface?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A
Did sealing material rise to surface?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
Did material settle after 24 hours?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A
If yes, was hole retopped?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A
If bentonite chips were used, were they hydrated with water from a known safe source?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A
Required Method of Placing Sealing Material	
<input type="checkbox"/> Conductor Pipe-Gravity	<input type="checkbox"/> Conductor Pipe-Pumped
<input checked="" type="checkbox"/> Screened & Poured (Bentonite Chips)	<input type="checkbox"/> Other (Explain): _____
Sealing Materials	
<input type="checkbox"/> Neat Cement Grout	<input type="checkbox"/> Clay-Sand Slurry (11 lb./gal. wt.)
<input type="checkbox"/> Sand-Cement (Concrete) Grout	<input type="checkbox"/> Bentonite-Sand Slurry " "
<input type="checkbox"/> Concrete	<input checked="" type="checkbox"/> Bentonite Chips
For Monitoring Wells and Monitoring Well Boreholes Only:	
<input checked="" type="checkbox"/> Bentonite Chips	<input type="checkbox"/> Bentonite - Cement Grout
<input type="checkbox"/> Granular Bentonite	<input type="checkbox"/> Bentonite - Sand Slurry

5. Material Used To Fill Well / Drillhole	From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
<u>3/8 inch chipped bentonite</u>	<u>Surface</u>	<u>12</u>	<u>0.4</u>	<u>100% Bentonite</u>

6. Comments

7. Supervision of Work				DNR Use Only	
Name of Person or Firm Doing Filling & Sealing: <u>Chad M Fradette</u>	License #: <u>892926</u>	Date of Filling & Sealing (mm/dd/yyyy): <u>04/07/2014</u>	Date Received: _____	Noted By: _____	
Street or Route: <u>211 N Broadway, Ste 114</u>			Telephone Number: <u>(920) 569-5765</u>	Comments: _____	
City: <u>Green Bay</u>	State: <u>WI</u>	ZIP Code: <u>54303</u>	Signature of Person Doing Work: 	Date Signed: <u>05/10/2014</u>	

Route To: Watershed/Wastewater Waste Management
Remediation/Revelopment Other

Page ____ of ____

Facility/Project Name Webster Property/WDOT		License/Permit/Monitoring Number	Boring Number GP-4
Boring Drilled By: Name of crew chief (first, last) and Firm First Name: Darrin Last Name: Prentice Firm: Geiss Soil & Samples		Date Drilling Started 04 / 07 / 2014 m m / d d / y y y y	Date Drilling Completed 04 / 07 / 2014 m m / d d / y y y y
WI Unique Well No.	DNR Well ID No.	Well Name	Drilling Method Geoprobe
		Final Static Water Level Feet MSL	Surface Elevation Feet MSL
			Borehole Diameter 2 inches
Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/>) or Boring Location <input type="checkbox"/>		Local Grid Location	
State Plane _____ N, _____ E		Feet <input type="checkbox"/> N <input type="checkbox"/> E <input type="checkbox"/> S <input type="checkbox"/> W	
1/4 of _____ 1/4 of Section _____, T _____ N, R _____		Lat _____ Long _____	
Facility ID 9505 CTH U	County Outagamie	County Code 45	Civil Town/City/ or Village Town of Oneida

Sample Number and Type	Length Air. & Recovered (in)	Blow Counts	Depth in Feet (below ground surface)	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties					RQD/Comments	
									Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200		
S-1	20		0	Topsoil	TO			0.0							
			1	Br clay	CL										
S-2	24		2	Br sand w/clay	SP			0.0							
			3	↓											
S-3	24		4	br clay	CL			0.0							
			5	hard perched	CL										
S-4	24		6		CL			0.0							
			7		CL										
S-5	24		8		CL			0.0							
			9		CL										
S-6	24		10		CL			0.0							
			11		CL										
S-7			12	temp well installed											
			13												
S-8			14												
			15												
			16												

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature <i>[Handwritten Signature]</i>	Firm Mach IV Engineering & Surveying
---	--

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

Route To: Watershed/Wastewater Waste Management
Remediation/Revelopment Other

Page ____ of ____

Facility/Project Name Webster Property/WDOT		License/Permit/Monitoring Number	Boring Number GP-5
Boring Drilled By: Name of crew chief (first, last) and Firm First Name: Darrin Last Name: Prentice Firm: Geiss Soil & Samples		Date Drilling Started 04 / 07 / 2014 m m d d y y y y	Date Drilling Completed 04 / 07 / 2014 m m d d y y y y
WI Unique Well No.	DNR Well ID No.	Well Name	Drilling Method Geoprobe
		Final Static Water Level Feet MSL	Surface Elevation Feet MSL
Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/>) or Boring Location <input type="checkbox"/> State Plane _____ N, _____ E		Lat _____ "	Borehole Diameter 2 inches
_____ 1/4 of _____ 1/4 of Section _____, T _____ N, R _____		Long _____ "	Local Grid Location <input type="checkbox"/> N <input type="checkbox"/> E <input type="checkbox"/> S <input type="checkbox"/> W
Facility ID 9505 CTH U	County Outagamie	County Code 45	Civil Town/City/ or Village Town of Oneida

Sample Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth in Feet (Below ground surface)	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties					RQD/ Comments
									Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	
S-1	12		0	gravel to 7	FI			0.0						
			1	Top soil	TO									
S-2	24		2	clay	CL			0.0						
			3	silty clay - br	MI									
S-3	24		4	br sandy clay	SP			0.0						
			5	br clay	CL								PVCCs naph	
S-4	24		6		CL			0.0						
			7		CL									
S-5	24		8	sandy clay - br	CL			0.0						
			9	clay - br	CL								PVCCs naph	
S-6	24		10		CL			0.0						
			11	↓										
S-7			12											
			13	EOB										
S-8			14											
			15											
			16											

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature *Darrin Prentice* Firm Mach IV Engineering & Surveying

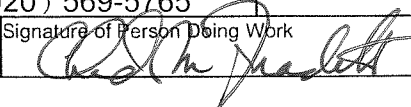
This form is authorized by Chapters 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats. Completion of this form is mandatory. Failure to file this form may result in forfeiture of between \$10 and \$25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally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

Notice: Completion of this report is required by chs. 160, 281, 283, 289, 291-293, 295, and 299, Wis. Stats., and ch. NR 141, Wis. Adm. Code. In accordance with chs. 281, 289, 291-293, 295, and 299, Wis. Stats., failure to file this form may result in a forfeiture of between \$10-25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. Return form to the appropriate DNR office and bureau. See instructions on reverse for more information.

<input type="checkbox"/> Verification Only of Fill and Seal	Route to:	<input type="checkbox"/> Drinking Water	<input type="checkbox"/> Watershed/Wastewater	<input checked="" type="checkbox"/> Remediation/Redevelopment
	<input type="checkbox"/> Waste Management	<input type="checkbox"/> Other: _____		

1. Well Location Information				2. Facility / Owner Information			
County Outagamie		WI Unique Well # of Removed Well _____		Hicap # _____		Facility Name Webster Property/WDOT	
Latitude / Longitude (Degrees and Minutes) 44 ° 34.912 ' N		Method Code (see instructions) _____		Facility ID (FID or PWS) _____		License/Permit/Monitoring # GP- 5	
88 ° 11.463 ' W		Section _____		Township N		Original Well Owner John Webster	
1/4 / 1/4 or Gov't Lot #		Range <input type="checkbox"/> E <input type="checkbox"/> W		Present Well Owner same		Mailing Address of Present Owner 3781 Hillcrest Drive	
Well Street Address N9505 CTH U				City of Present Owner Green Bay		State WI	ZIP Code 54313
Well City, Village or Town Town of Oneida				Well ZIP Code 54313		Subdivision Name _____	
Subdivision Name _____				Lot # _____		Reason For Removal From Service Temporary Boring	
Reason For Removal From Service Temporary Boring				WI Unique Well # of Replacement Well _____		Original Construction Date (mm/dd/yyyy) 04/07/2014	

3. Well / Drillhole / Borehole Information				4. Pump, Liner, Screen, Casing & Sealing Material					
<input type="checkbox"/> Monitoring Well		Original Construction Date (mm/dd/yyyy) 04/07/2014		Pump and piping removed?		<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A	
<input type="checkbox"/> Water Well		If a Well Construction Report is available, please attach. _____		Liner(s) removed?		<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A	
<input checked="" type="checkbox"/> Borehole / Drillhole		Construction Type:		Screen removed?		<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A	
<input checked="" type="checkbox"/> Drilled		<input type="checkbox"/> Driven (Sandpoint)		Casing left in place?		<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A	
<input type="checkbox"/> Other (specify): _____		<input type="checkbox"/> Dug		Was casing cut off below surface?		<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A	
Formation Type:				Required Method of Placing Sealing Material					
<input checked="" type="checkbox"/> Unconsolidated Formation		<input type="checkbox"/> Bedrock		<input type="checkbox"/> Conductor Pipe-Gravity		<input type="checkbox"/> Conductor Pipe-Pumped			
Total Well Depth From Ground Surface (ft.) 12		Casing Diameter (in.) _____		<input checked="" type="checkbox"/> Screened & Poured (Bentonite Chips)		<input type="checkbox"/> Other (Explain): _____			
Lower Drillhole Diameter (in.) 2		Casing Depth (ft.) _____		Sealing Materials		<input type="checkbox"/> Neat Cement Grout		<input type="checkbox"/> Clay-Sand Slurry (11 lb./gal. wt.)	
Was well annular space grouted? NA		<input type="checkbox"/> Yes		<input type="checkbox"/> No		<input type="checkbox"/> Sand-Cement (Concrete) Grout		<input type="checkbox"/> Bentonite-Sand Slurry " "	
If yes, to what depth (feet)? _____		Depth to Water (feet) _____		<input type="checkbox"/> Concrete		<input checked="" type="checkbox"/> Bentonite Chips			
5. Material Used To Fill Well / Drillhole				For Monitoring Wells and Monitoring Well Boreholes Only:					
From (ft.)		To (ft.)		No. Yards, Sacks Sealant or Volume (circle one)		Mix Ratio or Mud Weight			
3/8 inch chipped bentonite		Surface		12		0.6		100% Bentonite	

6. Comments									
7. Supervision of Work				DNR Use Only					
Name of Person or Firm Doing Filling & Sealing Chad M Fradette		License # 892926	Date of Filling & Sealing (mm/dd/yyyy) 04/07/2014		Date Received _____		Noted By _____		
Street or Route 211 N Broadway, Ste 114				Telephone Number (920) 569-5765		Comments _____			
City Green Bay		State WI	ZIP Code 54303		Signature of Person Doing Work 		Date Signed 05/10/2014		

Route To: Watershed/Wastewater Waste Management
Remediation/Revlopment Other

Page ____ of ____

Facility/Project Name Webster Property/WDOT		License/Permit/Monitoring Number	Boring Number GP-6
Boring Drilled By: Name of crew chief (first, last) and Firm First Name: Darrin Last Name: Prentice Firm: Geiss Soil & Samples		Date Drilling Started 04 / 07 / 2014 m m / d d / y y y y	Date Drilling Completed 04 / 07 / 2014 m m / d d / y y y y
WI Unique Well No.	DNR Well ID No.	Well Name	Drilling Method Geoprobe
		Final Static Water Level Feet MSL	Surface Elevation Feet MSL
			Borehole Diameter 2 inches
Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/>) or Boring Location <input type="checkbox"/>		Local Grid Location	
State Plane N, _____ E		Feet <input type="checkbox"/> N <input type="checkbox"/> E <input type="checkbox"/> S <input type="checkbox"/> W	
1/4 of _____ 1/4 of Section _____, T _____ N, R _____		Lat _____	Long _____
Facility ID 9505 CTH U		County Outagamie	County Code 45
		Civil Town/City/ or Village Town of Oneida	

Sample Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth in Feet (below ground surface)	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties					RQD/ Comments	
									Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200		
S-1	12		0	Topsoil	TO			0.0							
			1	br-clay	CL										
S-2	24		2					0.0							
			3	br-silt	ML										
S-3	24		4	silty clay - br	CL			0.0							
			5	br clay	CL			0.0							DUCCs inoph
S-4	24		6		CL			0.0							
			7		CL			0.0							
S-5	24		8		CL			0.0							
			9		CL			0.0							DUCCs inoph
S-6	24		10		CL			0.0							
			11		CL			0.0							
S-7			12												
			13	temp well set											
S-8			14												
			15												
			16												

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature *Charles M. Jandett* Firm Mach IV Engineering & Surveying

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Route To: Watershed/Wastewater Waste Management
Remediation/Revelopment Other

Page ____ of ____

Facility/Project Name Webster Property/WDOT		License/Permit/Monitoring Number		Boring Number GP-7	
Boring Drilled By: Name of crew chief (first, last) and Firm First Name: Darrin Last Name: Prentice Firm: Geiss Soil & Samples		Date Drilling Started 04 / 07 / 2014 m m / d d / y y y y		Date Drilling Completed 04 / 07 / 2014 m m / d d / y y y y	
WI Unique Well No.		DNR Well ID No.		Well Name	
Final Static Water Level Feet MSL		Surface Elevation Feet MSL		Borehole Diameter 2 inches	
Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/>) or Boring Location <input type="checkbox"/>		State Plane N , E		Lat 0 ' "	
1/4 of 1/4 of Section 1 , T N , R R		Long 0 ' "		Local Grid Location Feet <input type="checkbox"/> N <input type="checkbox"/> E <input type="checkbox"/> S <input type="checkbox"/> W	
Facility ID 9505 CTH U		County Outagamie		County Code 45	
Civil Town/City/ or Village Town of Oneida					

Sample Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth in Feet (Below ground surface)	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties					RQD/ Comments
									Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	
S-1	2		0	asphalt	PA			0.0						
			1	br-sand	SP			0.0						
S-2	12		2	gravel	GP			0.0						
			3	br clay	CL									
S-3	24		4	sandy clay	CL			0.0					PVCy noph	
			5											
S-4	24		6	br clay	CL			0.0						
			7											
S-5	24		8	hard clay	CL			0.0					PVCc, noph	
			9											
S-6	24		10	↓				0.0						
			11											
S-7			12											
			13											
S-8			14											
			15											
			16											

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature 	Firm Mach IV Engineering & Surveying
---------------	--

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APPENDIX D

Laboratory Report

April 17, 2014

Chad Fradette
Mach IV Engineering & Surveying
211 N. Broadway
Suite 114
Green Bay, WI 54303

RE: Project: WEBSTER/ WDOT
Pace Project No.: 4094322

Dear Chad Fradette:

Enclosed are the analytical results for sample(s) received by the laboratory on April 07, 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,



Brian Basten
brian.basten@pacelabs.com
Project Manager

Enclosures



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: WEBSTER/ WDOT

Pace Project No.: 4094322

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

New York Certification #: 11888

North Dakota Certification #: R-150

South Carolina Certification #: 83006001

US Dept of Agriculture #: S-76505

Wisconsin Certification #: 405132750

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SAMPLE SUMMARY

Project: WEBSTER/ WDOT

Pace Project No.: 4094322

Lab ID	Sample ID	Matrix	Date Collected	Date Received
4094322001	GP-1, S-4	Solid	04/07/14 08:45	04/07/14 16:10
4094322002	GP-2, S-3	Solid	04/07/14 09:00	04/07/14 16:10
4094322003	GP-2, S-6	Solid	04/07/14 09:00	04/07/14 16:10
4094322004	GP-3, S-3	Solid	04/07/14 10:30	04/07/14 16:10
4094322005	GP-3, S-5	Solid	04/07/14 10:40	04/07/14 16:10
4094322006	GP-4, S-5	Solid	04/07/14 10:50	04/07/14 16:10
4094322007	GP-5, S-3	Solid	04/07/14 11:10	04/07/14 16:10
4094322008	GP-5, S-5	Solid	04/07/14 11:15	04/07/14 16:10
4094322009	GP-6, S-3	Solid	04/07/14 11:20	04/07/14 16:10
4094322010	GP-6, S-5	Solid	04/07/14 11:25	04/07/14 16:10
4094322011	GP-7, S-3	Solid	04/07/14 11:40	04/07/14 16:10
4094322012	GP-7, S-5	Solid	04/07/14 11:45	04/07/14 16:10

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: WEBSTER/ WDOT
Pace Project No.: 4094322

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
4094322001	GP-1, S-4	WI MOD GRO	MRS	10	PASI-G
		ASTM D2974-87	AH	1	PASI-G
4094322002	GP-2, S-3	WI MOD GRO	MRS	10	PASI-G
		ASTM D2974-87	AH	1	PASI-G
4094322003	GP-2, S-6	WI MOD GRO	MRS	10	PASI-G
		ASTM D2974-87	AH	1	PASI-G
4094322004	GP-3, S-3	WI MOD GRO	MRS	10	PASI-G
		ASTM D2974-87	AH	1	PASI-G
4094322005	GP-3, S-5	WI MOD GRO	MRS	10	PASI-G
		ASTM D2974-87	AH	1	PASI-G
4094322006	GP-4, S-5	WI MOD GRO	MRS	10	PASI-G
		ASTM D2974-87	AH	1	PASI-G
4094322007	GP-5, S-3	WI MOD GRO	MRS	10	PASI-G
		ASTM D2974-87	AH	1	PASI-G
4094322008	GP-5, S-5	WI MOD GRO	MRS	10	PASI-G
		ASTM D2974-87	AH	1	PASI-G
4094322009	GP-6, S-3	WI MOD GRO	MRS	10	PASI-G
		ASTM D2974-87	AH	1	PASI-G
4094322010	GP-6, S-5	WI MOD GRO	MRS	10	PASI-G
		ASTM D2974-87	AH	1	PASI-G
4094322011	GP-7, S-3	WI MOD GRO	MRS	10	PASI-G
		ASTM D2974-87	AH	1	PASI-G
4094322012	GP-7, S-5	WI MOD GRO	MRS	10	PASI-G
		ASTM D2974-87	AH	1	PASI-G

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: WEBSTER/ WDOT

Pace Project No.: 4094322

Method: WI MOD GRO

Description: WIGRO GCV

Client: Mach IV Engineering

Date: April 17, 2014

General Information:

12 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.

Additional Comments:

Analyte Comments:

QC Batch: GCV/12154

D3: Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.

- GP-2, S-3 (Lab ID: 4094322002)
- a,a,a-Trifluorotoluene (S)

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: WEBSTER/ WDOT

Pace Project No.: 4094322

Sample: GP-1, S-4 **Lab ID: 4094322001** Collected: 04/07/14 08:45 Received: 04/07/14 16:10 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV Analytical Method: WI MOD GRO Preparation Method: TPH GRO/PVOC WI ext.									
Benzene	<25.0	ug/kg	60.0	25.0	1	04/09/14 06:20	04/09/14 19:05	71-43-2	W
Ethylbenzene	<25.0	ug/kg	60.0	25.0	1	04/09/14 06:20	04/09/14 19:05	100-41-4	W
Methyl-tert-butyl ether	<25.0	ug/kg	60.0	25.0	1	04/09/14 06:20	04/09/14 19:05	1634-04-4	W
Naphthalene	<25.0	ug/kg	60.0	25.0	1	04/09/14 06:20	04/09/14 19:05	91-20-3	W
Toluene	<25.0	ug/kg	60.0	25.0	1	04/09/14 06:20	04/09/14 19:05	108-88-3	W
1,2,4-Trimethylbenzene	<25.0	ug/kg	60.0	25.0	1	04/09/14 06:20	04/09/14 19:05	95-63-6	W
1,3,5-Trimethylbenzene	<25.0	ug/kg	60.0	25.0	1	04/09/14 06:20	04/09/14 19:05	108-67-8	W
m&p-Xylene	<50.0	ug/kg	120	50.0	1	04/09/14 06:20	04/09/14 19:05	179601-23-1	W
o-Xylene	<25.0	ug/kg	60.0	25.0	1	04/09/14 06:20	04/09/14 19:05	95-47-6	W
Surrogates									
a,a,a-Trifluorotoluene (S)	102 %		80-120		1	04/09/14 06:20	04/09/14 19:05	98-08-8	
Percent Moisture Analytical Method: ASTM D2974-87									
Percent Moisture	8.0 %		0.10	0.10	1		04/16/14 16:34		

Sample: GP-2, S-3 **Lab ID: 4094322002** Collected: 04/07/14 09:00 Received: 04/07/14 16:10 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV Analytical Method: WI MOD GRO Preparation Method: TPH GRO/PVOC WI ext.									
Benzene	<50.0	ug/kg	120	50.0	2	04/09/14 06:20	04/09/14 19:34	71-43-2	W
Ethylbenzene	155	ug/kg	143	59.4	2	04/09/14 06:20	04/09/14 19:34	100-41-4	
Methyl-tert-butyl ether	<50.0	ug/kg	120	50.0	2	04/09/14 06:20	04/09/14 19:34	1634-04-4	W
Naphthalene	3230	ug/kg	143	59.4	2	04/09/14 06:20	04/09/14 19:34	91-20-3	
Toluene	<50.0	ug/kg	120	50.0	2	04/09/14 06:20	04/09/14 19:34	108-88-3	W
1,2,4-Trimethylbenzene	1220	ug/kg	143	59.4	2	04/09/14 06:20	04/09/14 19:34	95-63-6	
1,3,5-Trimethylbenzene	424	ug/kg	143	59.4	2	04/09/14 06:20	04/09/14 19:34	108-67-8	
m&p-Xylene	522	ug/kg	285	119	2	04/09/14 06:20	04/09/14 19:34	179601-23-1	
o-Xylene	211	ug/kg	143	59.4	2	04/09/14 06:20	04/09/14 19:34	95-47-6	
Surrogates									
a,a,a-Trifluorotoluene (S)	101 %		80-120		2	04/09/14 06:20	04/09/14 19:34	98-08-8	D3
Percent Moisture Analytical Method: ASTM D2974-87									
Percent Moisture	15.9 %		0.10	0.10	1		04/16/14 16:34		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: WEBSTER/ WDOT
Pace Project No.: 4094322

Sample: GP-2, S-6 **Lab ID: 4094322003** Collected: 04/07/14 09:00 Received: 04/07/14 16:10 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV Analytical Method: WI MOD GRO Preparation Method: TPH GRO/PVOC WI ext.									
Benzene	<25.0	ug/kg	60.0	25.0	1	04/09/14 06:20	04/09/14 13:50	71-43-2	W
Ethylbenzene	<25.0	ug/kg	60.0	25.0	1	04/09/14 06:20	04/09/14 13:50	100-41-4	W
Methyl-tert-butyl ether	<25.0	ug/kg	60.0	25.0	1	04/09/14 06:20	04/09/14 13:50	1634-04-4	W
Naphthalene	<25.0	ug/kg	60.0	25.0	1	04/09/14 06:20	04/09/14 13:50	91-20-3	W
Toluene	<25.0	ug/kg	60.0	25.0	1	04/09/14 06:20	04/09/14 13:50	108-88-3	W
1,2,4-Trimethylbenzene	<25.0	ug/kg	60.0	25.0	1	04/09/14 06:20	04/09/14 13:50	95-63-6	W
1,3,5-Trimethylbenzene	<25.0	ug/kg	60.0	25.0	1	04/09/14 06:20	04/09/14 13:50	108-67-8	W
m&p-Xylene	<50.0	ug/kg	120	50.0	1	04/09/14 06:20	04/09/14 13:50	179601-23-1	W
o-Xylene	<25.0	ug/kg	60.0	25.0	1	04/09/14 06:20	04/09/14 13:50	95-47-6	W
Surrogates									
a,a,a-Trifluorotoluene (S)	101	%	80-120		1	04/09/14 06:20	04/09/14 13:50	98-08-8	
Percent Moisture Analytical Method: ASTM D2974-87									
Percent Moisture	10.2	%	0.10	0.10	1		04/16/14 16:34		

Sample: GP-3, S-3 **Lab ID: 4094322004** Collected: 04/07/14 10:30 Received: 04/07/14 16:10 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV Analytical Method: WI MOD GRO Preparation Method: TPH GRO/PVOC WI ext.									
Benzene	<35.7	ug/kg	85.7	35.7	1	04/09/14 06:20	04/09/14 13:21	71-43-2	W
Ethylbenzene	<35.7	ug/kg	85.7	35.7	1	04/09/14 06:20	04/09/14 13:21	100-41-4	W
Methyl-tert-butyl ether	<35.7	ug/kg	85.7	35.7	1	04/09/14 06:20	04/09/14 13:21	1634-04-4	W
Naphthalene	<35.7	ug/kg	85.7	35.7	1	04/09/14 06:20	04/09/14 13:21	91-20-3	W
Toluene	<35.7	ug/kg	85.7	35.7	1	04/09/14 06:20	04/09/14 13:21	108-88-3	W
1,2,4-Trimethylbenzene	<35.7	ug/kg	85.7	35.7	1	04/09/14 06:20	04/09/14 13:21	95-63-6	W
1,3,5-Trimethylbenzene	<35.7	ug/kg	85.7	35.7	1	04/09/14 06:20	04/09/14 13:21	108-67-8	W
m&p-Xylene	<71.4	ug/kg	171	71.4	1	04/09/14 06:20	04/09/14 13:21	179601-23-1	W
o-Xylene	<35.7	ug/kg	85.7	35.7	1	04/09/14 06:20	04/09/14 13:21	95-47-6	W
Surrogates									
a,a,a-Trifluorotoluene (S)	101	%	80-120		1	04/09/14 06:20	04/09/14 13:21	98-08-8	
Percent Moisture Analytical Method: ASTM D2974-87									
Percent Moisture	12.8	%	0.10	0.10	1		04/16/14 16:35		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: WEBSTER/ WDOT

Pace Project No.: 4094322

Sample: GP-3, S-5 **Lab ID: 4094322005** Collected: 04/07/14 10:40 Received: 04/07/14 16:10 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV Analytical Method: WI MOD GRO Preparation Method: TPH GRO/PVOC WI ext.									
Benzene	<25.0	ug/kg	60.0	25.0	1	04/09/14 06:20	04/09/14 16:13	71-43-2	W
Ethylbenzene	<25.0	ug/kg	60.0	25.0	1	04/09/14 06:20	04/09/14 16:13	100-41-4	W
Methyl-tert-butyl ether	<25.0	ug/kg	60.0	25.0	1	04/09/14 06:20	04/09/14 16:13	1634-04-4	W
Naphthalene	<25.0	ug/kg	60.0	25.0	1	04/09/14 06:20	04/09/14 16:13	91-20-3	W
Toluene	<25.0	ug/kg	60.0	25.0	1	04/09/14 06:20	04/09/14 16:13	108-88-3	W
1,2,4-Trimethylbenzene	<25.0	ug/kg	60.0	25.0	1	04/09/14 06:20	04/09/14 16:13	95-63-6	W
1,3,5-Trimethylbenzene	<25.0	ug/kg	60.0	25.0	1	04/09/14 06:20	04/09/14 16:13	108-67-8	W
m&p-Xylene	<50.0	ug/kg	120	50.0	1	04/09/14 06:20	04/09/14 16:13	179601-23-1	W
o-Xylene	<25.0	ug/kg	60.0	25.0	1	04/09/14 06:20	04/09/14 16:13	95-47-6	W
Surrogates									
a,a,a-Trifluorotoluene (S)	101	%	80-120		1	04/09/14 06:20	04/09/14 16:13	98-08-8	
Percent Moisture Analytical Method: ASTM D2974-87									
Percent Moisture	9.1	%	0.10	0.10	1		04/16/14 16:35		

Sample: GP-4, S-5 **Lab ID: 4094322006** Collected: 04/07/14 10:50 Received: 04/07/14 16:10 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV Analytical Method: WI MOD GRO Preparation Method: TPH GRO/PVOC WI ext.									
Benzene	<25.0	ug/kg	60.0	25.0	1	04/09/14 06:20	04/09/14 16:42	71-43-2	W
Ethylbenzene	<25.0	ug/kg	60.0	25.0	1	04/09/14 06:20	04/09/14 16:42	100-41-4	W
Methyl-tert-butyl ether	<25.0	ug/kg	60.0	25.0	1	04/09/14 06:20	04/09/14 16:42	1634-04-4	W
Naphthalene	<25.0	ug/kg	60.0	25.0	1	04/09/14 06:20	04/09/14 16:42	91-20-3	W
Toluene	<25.0	ug/kg	60.0	25.0	1	04/09/14 06:20	04/09/14 16:42	108-88-3	W
1,2,4-Trimethylbenzene	<25.0	ug/kg	60.0	25.0	1	04/09/14 06:20	04/09/14 16:42	95-63-6	W
1,3,5-Trimethylbenzene	<25.0	ug/kg	60.0	25.0	1	04/09/14 06:20	04/09/14 16:42	108-67-8	W
m&p-Xylene	<50.0	ug/kg	120	50.0	1	04/09/14 06:20	04/09/14 16:42	179601-23-1	W
o-Xylene	<25.0	ug/kg	60.0	25.0	1	04/09/14 06:20	04/09/14 16:42	95-47-6	W
Surrogates									
a,a,a-Trifluorotoluene (S)	101	%	80-120		1	04/09/14 06:20	04/09/14 16:42	98-08-8	
Percent Moisture Analytical Method: ASTM D2974-87									
Percent Moisture	11.0	%	0.10	0.10	1		04/16/14 16:35		

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ANALYTICAL RESULTS

Project: WEBSTER/ WDOT

Pace Project No.: 4094322

Sample: GP-5, S-3 **Lab ID: 4094322007** Collected: 04/07/14 11:10 Received: 04/07/14 16:10 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV Analytical Method: WI MOD GRO Preparation Method: TPH GRO/PVOC WI ext.									
Benzene	<25.0	ug/kg	60.0	25.0	1	04/09/14 06:20	04/09/14 11:55	71-43-2	W
Ethylbenzene	<25.0	ug/kg	60.0	25.0	1	04/09/14 06:20	04/09/14 11:55	100-41-4	W
Methyl-tert-butyl ether	<25.0	ug/kg	60.0	25.0	1	04/09/14 06:20	04/09/14 11:55	1634-04-4	W
Naphthalene	<25.0	ug/kg	60.0	25.0	1	04/09/14 06:20	04/09/14 11:55	91-20-3	W
Toluene	<25.0	ug/kg	60.0	25.0	1	04/09/14 06:20	04/09/14 11:55	108-88-3	W
1,2,4-Trimethylbenzene	<25.0	ug/kg	60.0	25.0	1	04/09/14 06:20	04/09/14 11:55	95-63-6	W
1,3,5-Trimethylbenzene	<25.0	ug/kg	60.0	25.0	1	04/09/14 06:20	04/09/14 11:55	108-67-8	W
m&p-Xylene	<50.0	ug/kg	120	50.0	1	04/09/14 06:20	04/09/14 11:55	179601-23-1	W
o-Xylene	<25.0	ug/kg	60.0	25.0	1	04/09/14 06:20	04/09/14 11:55	95-47-6	W
Surrogates									
a,a,a-Trifluorotoluene (S)	101 %		80-120		1	04/09/14 06:20	04/09/14 11:55	98-08-8	
Percent Moisture Analytical Method: ASTM D2974-87									
Percent Moisture	11.7 %		0.10	0.10	1		04/16/14 16:35		

Sample: GP-5, S-5 **Lab ID: 4094322008** Collected: 04/07/14 11:15 Received: 04/07/14 16:10 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV Analytical Method: WI MOD GRO Preparation Method: TPH GRO/PVOC WI ext.									
Benzene	<25.0	ug/kg	60.0	25.0	1	04/09/14 06:20	04/09/14 10:57	71-43-2	W
Ethylbenzene	<25.0	ug/kg	60.0	25.0	1	04/09/14 06:20	04/09/14 10:57	100-41-4	W
Methyl-tert-butyl ether	<25.0	ug/kg	60.0	25.0	1	04/09/14 06:20	04/09/14 10:57	1634-04-4	W
Naphthalene	<25.0	ug/kg	60.0	25.0	1	04/09/14 06:20	04/09/14 10:57	91-20-3	W
Toluene	<25.0	ug/kg	60.0	25.0	1	04/09/14 06:20	04/09/14 10:57	108-88-3	W
1,2,4-Trimethylbenzene	<25.0	ug/kg	60.0	25.0	1	04/09/14 06:20	04/09/14 10:57	95-63-6	W
1,3,5-Trimethylbenzene	<25.0	ug/kg	60.0	25.0	1	04/09/14 06:20	04/09/14 10:57	108-67-8	W
m&p-Xylene	<50.0	ug/kg	120	50.0	1	04/09/14 06:20	04/09/14 10:57	179601-23-1	W
o-Xylene	<25.0	ug/kg	60.0	25.0	1	04/09/14 06:20	04/09/14 10:57	95-47-6	W
Surrogates									
a,a,a-Trifluorotoluene (S)	101 %		80-120		1	04/09/14 06:20	04/09/14 10:57	98-08-8	
Percent Moisture Analytical Method: ASTM D2974-87									
Percent Moisture	11.0 %		0.10	0.10	1		04/16/14 16:35		

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ANALYTICAL RESULTS

Project: WEBSTER/ WDOT
Pace Project No.: 4094322

Sample: GP-6, S-3 **Lab ID: 4094322009** Collected: 04/07/14 11:20 Received: 04/07/14 16:10 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV Analytical Method: WI MOD GRO Preparation Method: TPH GRO/PVOC WI ext.									
Benzene	<25.0	ug/kg	60.0	25.0	1	04/09/14 06:20	04/09/14 15:44	71-43-2	W
Ethylbenzene	<25.0	ug/kg	60.0	25.0	1	04/09/14 06:20	04/09/14 15:44	100-41-4	W
Methyl-tert-butyl ether	<25.0	ug/kg	60.0	25.0	1	04/09/14 06:20	04/09/14 15:44	1634-04-4	W
Naphthalene	<25.0	ug/kg	60.0	25.0	1	04/09/14 06:20	04/09/14 15:44	91-20-3	W
Toluene	<25.0	ug/kg	60.0	25.0	1	04/09/14 06:20	04/09/14 15:44	108-88-3	W
1,2,4-Trimethylbenzene	<25.0	ug/kg	60.0	25.0	1	04/09/14 06:20	04/09/14 15:44	95-63-6	W
1,3,5-Trimethylbenzene	<25.0	ug/kg	60.0	25.0	1	04/09/14 06:20	04/09/14 15:44	108-67-8	W
m&p-Xylene	<50.0	ug/kg	120	50.0	1	04/09/14 06:20	04/09/14 15:44	179601-23-1	W
o-Xylene	<25.0	ug/kg	60.0	25.0	1	04/09/14 06:20	04/09/14 15:44	95-47-6	W
Surrogates									
a,a,a-Trifluorotoluene (S)	101	%	80-120		1	04/09/14 06:20	04/09/14 15:44	98-08-8	
Percent Moisture Analytical Method: ASTM D2974-87									
Percent Moisture	12.3	%	0.10	0.10	1		04/16/14 16:54		

Sample: GP-6, S-5 **Lab ID: 4094322010** Collected: 04/07/14 11:25 Received: 04/07/14 16:10 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV Analytical Method: WI MOD GRO Preparation Method: TPH GRO/PVOC WI ext.									
Benzene	<25.0	ug/kg	60.0	25.0	1	04/09/14 06:20	04/09/14 18:08	71-43-2	W
Ethylbenzene	<25.0	ug/kg	60.0	25.0	1	04/09/14 06:20	04/09/14 18:08	100-41-4	W
Methyl-tert-butyl ether	<25.0	ug/kg	60.0	25.0	1	04/09/14 06:20	04/09/14 18:08	1634-04-4	W
Naphthalene	<25.0	ug/kg	60.0	25.0	1	04/09/14 06:20	04/09/14 18:08	91-20-3	W
Toluene	<25.0	ug/kg	60.0	25.0	1	04/09/14 06:20	04/09/14 18:08	108-88-3	W
1,2,4-Trimethylbenzene	<25.0	ug/kg	60.0	25.0	1	04/09/14 06:20	04/09/14 18:08	95-63-6	W
1,3,5-Trimethylbenzene	<25.0	ug/kg	60.0	25.0	1	04/09/14 06:20	04/09/14 18:08	108-67-8	W
m&p-Xylene	<50.0	ug/kg	120	50.0	1	04/09/14 06:20	04/09/14 18:08	179601-23-1	W
o-Xylene	<25.0	ug/kg	60.0	25.0	1	04/09/14 06:20	04/09/14 18:08	95-47-6	W
Surrogates									
a,a,a-Trifluorotoluene (S)	101	%	80-120		1	04/09/14 06:20	04/09/14 18:08	98-08-8	
Percent Moisture Analytical Method: ASTM D2974-87									
Percent Moisture	11.1	%	0.10	0.10	1		04/16/14 16:54		

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ANALYTICAL RESULTS

Project: WEBSTER/ WDOT

Pace Project No.: 4094322

Sample: GP-7, S-3 **Lab ID: 4094322011** Collected: 04/07/14 11:40 Received: 04/07/14 16:10 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV Analytical Method: WI MOD GRO Preparation Method: TPH GRO/PVOC WI ext.									
Benzene	<25.0	ug/kg	60.0	25.0	1	04/09/14 06:20	04/09/14 12:52	71-43-2	W
Ethylbenzene	<25.0	ug/kg	60.0	25.0	1	04/09/14 06:20	04/09/14 12:52	100-41-4	W
Methyl-tert-butyl ether	<25.0	ug/kg	60.0	25.0	1	04/09/14 06:20	04/09/14 12:52	1634-04-4	W
Naphthalene	<25.0	ug/kg	60.0	25.0	1	04/09/14 06:20	04/09/14 12:52	91-20-3	W
Toluene	<25.0	ug/kg	60.0	25.0	1	04/09/14 06:20	04/09/14 12:52	108-88-3	W
1,2,4-Trimethylbenzene	<25.0	ug/kg	60.0	25.0	1	04/09/14 06:20	04/09/14 12:52	95-63-6	W
1,3,5-Trimethylbenzene	<25.0	ug/kg	60.0	25.0	1	04/09/14 06:20	04/09/14 12:52	108-67-8	W
m&p-Xylene	<50.0	ug/kg	120	50.0	1	04/09/14 06:20	04/09/14 12:52	179601-23-1	W
o-Xylene	<25.0	ug/kg	60.0	25.0	1	04/09/14 06:20	04/09/14 12:52	95-47-6	W
Surrogates									
a,a,a-Trifluorotoluene (S)	101	%	80-120		1	04/09/14 06:20	04/09/14 12:52	98-08-8	
Percent Moisture Analytical Method: ASTM D2974-87									
Percent Moisture	13.7	%	0.10	0.10	1		04/16/14 16:54		

Sample: GP-7, S-5 **Lab ID: 4094322012** Collected: 04/07/14 11:45 Received: 04/07/14 16:10 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV Analytical Method: WI MOD GRO Preparation Method: TPH GRO/PVOC WI ext.									
Benzene	<25.0	ug/kg	60.0	25.0	1	04/09/14 06:20	04/09/14 18:37	71-43-2	W
Ethylbenzene	<25.0	ug/kg	60.0	25.0	1	04/09/14 06:20	04/09/14 18:37	100-41-4	W
Methyl-tert-butyl ether	<25.0	ug/kg	60.0	25.0	1	04/09/14 06:20	04/09/14 18:37	1634-04-4	W
Naphthalene	<25.0	ug/kg	60.0	25.0	1	04/09/14 06:20	04/09/14 18:37	91-20-3	W
Toluene	<25.0	ug/kg	60.0	25.0	1	04/09/14 06:20	04/09/14 18:37	108-88-3	W
1,2,4-Trimethylbenzene	<25.0	ug/kg	60.0	25.0	1	04/09/14 06:20	04/09/14 18:37	95-63-6	W
1,3,5-Trimethylbenzene	<25.0	ug/kg	60.0	25.0	1	04/09/14 06:20	04/09/14 18:37	108-67-8	W
m&p-Xylene	<50.0	ug/kg	120	50.0	1	04/09/14 06:20	04/09/14 18:37	179601-23-1	W
o-Xylene	<25.0	ug/kg	60.0	25.0	1	04/09/14 06:20	04/09/14 18:37	95-47-6	W
Surrogates									
a,a,a-Trifluorotoluene (S)	101	%	80-120		1	04/09/14 06:20	04/09/14 18:37	98-08-8	
Percent Moisture Analytical Method: ASTM D2974-87									
Percent Moisture	10.7	%	0.10	0.10	1		04/16/14 16:54		

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QUALITY CONTROL DATA

Project: WEBSTER/ WDOT
Pace Project No.: 4094322

QC Batch: GCV/12154 Analysis Method: WI MOD GRO
QC Batch Method: TPH GRO/PVOC WI ext. Analysis Description: WIGRO Solid GCV
Associated Lab Samples: 4094322001, 4094322002, 4094322003, 4094322004, 4094322005, 4094322006, 4094322007, 4094322008, 4094322009, 4094322010, 4094322011, 4094322012

METHOD BLANK: 952418 Matrix: Solid
Associated Lab Samples: 4094322001, 4094322002, 4094322003, 4094322004, 4094322005, 4094322006, 4094322007, 4094322008, 4094322009, 4094322010, 4094322011, 4094322012

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2,4-Trimethylbenzene	ug/kg	<25.0	50.0	04/09/14 09:03	
1,3,5-Trimethylbenzene	ug/kg	<25.0	50.0	04/09/14 09:03	
Benzene	ug/kg	<10.0	50.0	04/09/14 09:03	
Ethylbenzene	ug/kg	<25.0	50.0	04/09/14 09:03	
m&p-Xylene	ug/kg	<50.0	100	04/09/14 09:03	
Methyl-tert-butyl ether	ug/kg	<25.0	50.0	04/09/14 09:03	
Naphthalene	ug/kg	<25.0	50.0	04/09/14 09:03	
o-Xylene	ug/kg	<25.0	50.0	04/09/14 09:03	
Toluene	ug/kg	<25.0	50.0	04/09/14 09:03	
a,a,a-Trifluorotoluene (S)	%	102	80-120	04/09/14 09:03	

LABORATORY CONTROL SAMPLE & LCSD: 952419

952420

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
1,2,4-Trimethylbenzene	ug/kg	1000	951	1030	95	103	80-120	8	20	
1,3,5-Trimethylbenzene	ug/kg	1000	945	1020	95	102	80-120	8	20	
Benzene	ug/kg	1000	993	1050	99	105	80-120	6	20	
Ethylbenzene	ug/kg	1000	1010	1080	101	108	80-120	7	20	
m&p-Xylene	ug/kg	2000	2020	2180	101	109	80-120	7	20	
Methyl-tert-butyl ether	ug/kg	1000	994	1040	99	104	80-120	5	20	
Naphthalene	ug/kg	1000	1030	1110	103	111	80-120	8	20	
o-Xylene	ug/kg	1000	988	1070	99	107	80-120	8	20	
Toluene	ug/kg	1000	1010	1070	101	107	80-120	7	20	
a,a,a-Trifluorotoluene (S)	%				100	101	80-120			

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QUALITY CONTROL DATA

Project: WEBSTER/ WDOT

Pace Project No.: 4094322

QC Batch: PMST/9572

Analysis Method: ASTM D2974-87

QC Batch Method: ASTM D2974-87

Analysis Description: Dry Weight/Percent Moisture

Associated Lab Samples: 4094322001, 4094322002, 4094322003, 4094322004, 4094322005, 4094322006, 4094322007, 4094322008

SAMPLE DUPLICATE: 956685

Parameter	Units	4094322001 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	8.0	7.9	1	10	

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QUALITY CONTROL DATA

Project: WEBSTER/ WDOT

Pace Project No.: 4094322

QC Batch:	PMST/9573	Analysis Method:	ASTM D2974-87
QC Batch Method:	ASTM D2974-87	Analysis Description:	Dry Weight/Percent Moisture
Associated Lab Samples:	4094322009, 4094322010, 4094322011, 4094322012		

SAMPLE DUPLICATE: 956735

Parameter	Units	4094322010 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	11.1	11.8	7	10	

REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: WEBSTER/ WDOT
Pace Project No.: 4094322

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.

LABORATORIES

PASI-G Pace Analytical Services - Green Bay

ANALYTE QUALIFIERS

D3 Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.

W Non-detect results are reported on a wet weight basis.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: WEBSTER/ WDOT

Pace Project No.: 4094322

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
4094322001	GP-1, S-4	TPH GRO/PVOC WI ext.	GCV/12154	WI MOD GRO	GCV/12155
4094322002	GP-2, S-3	TPH GRO/PVOC WI ext.	GCV/12154	WI MOD GRO	GCV/12155
4094322003	GP-2, S-6	TPH GRO/PVOC WI ext.	GCV/12154	WI MOD GRO	GCV/12155
4094322004	GP-3, S-3	TPH GRO/PVOC WI ext.	GCV/12154	WI MOD GRO	GCV/12155
4094322005	GP-3, S-5	TPH GRO/PVOC WI ext.	GCV/12154	WI MOD GRO	GCV/12155
4094322006	GP-4, S-5	TPH GRO/PVOC WI ext.	GCV/12154	WI MOD GRO	GCV/12155
4094322007	GP-5, S-3	TPH GRO/PVOC WI ext.	GCV/12154	WI MOD GRO	GCV/12155
4094322008	GP-5, S-5	TPH GRO/PVOC WI ext.	GCV/12154	WI MOD GRO	GCV/12155
4094322009	GP-6, S-3	TPH GRO/PVOC WI ext.	GCV/12154	WI MOD GRO	GCV/12155
4094322010	GP-6, S-5	TPH GRO/PVOC WI ext.	GCV/12154	WI MOD GRO	GCV/12155
4094322011	GP-7, S-3	TPH GRO/PVOC WI ext.	GCV/12154	WI MOD GRO	GCV/12155
4094322012	GP-7, S-5	TPH GRO/PVOC WI ext.	GCV/12154	WI MOD GRO	GCV/12155
4094322001	GP-1, S-4	ASTM D2974-87	PMST/9572		
4094322002	GP-2, S-3	ASTM D2974-87	PMST/9572		
4094322003	GP-2, S-6	ASTM D2974-87	PMST/9572		
4094322004	GP-3, S-3	ASTM D2974-87	PMST/9572		
4094322005	GP-3, S-5	ASTM D2974-87	PMST/9572		
4094322006	GP-4, S-5	ASTM D2974-87	PMST/9572		
4094322007	GP-5, S-3	ASTM D2974-87	PMST/9572		
4094322008	GP-5, S-5	ASTM D2974-87	PMST/9572		
4094322009	GP-6, S-3	ASTM D2974-87	PMST/9573		
4094322010	GP-6, S-5	ASTM D2974-87	PMST/9573		
4094322011	GP-7, S-3	ASTM D2974-87	PMST/9573		
4094322012	GP-7, S-5	ASTM D2974-87	PMST/9573		

REPORT OF LABORATORY ANALYSIS

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(Please Print Clearly)

Company Name: Mack V Eng.
 Branch/Location:
 Project Contact: Chad Fradette
 Phone: 920 615 0019
 Project Number: #
 Project Name: Webster WDOT
 Project State: WI - PECFA
 Sampled By (Print): Chad M Fradette
 Sampled By (Sign): [Signature]
 PO #:
 Regulatory Program:



UPPER MIDWEST REGION
 MN: 612-607-1700 WI: 920-469-2436

CHAIN OF CUSTODY

***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)*

Y/N	Pick Letter	Analyses Requested	1																				
		FVOCs + napht	X																				
			X																				
			X																				
			X																				
			X																				
			X																				
			X																				
			X																				
			X																				
			X																				
			X																				
			X																				

Quote #: 4094322
 Mail To Contact:
 Mail To Company: Mack V Eng.
 Mail To Address: 211 N Broadway Street #114
Green Bay, WI, 54303
 Invoice To Contact:
 Invoice To Company:
 Invoice To Address:
 Invoice To Phone:

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 = Biota DW = Drinking Water
 C = Charcoal GW = Ground Water
 O = Oil SW = Surface Water
 S = Soil WW = Waste Water
 SI = Sludge WP = Wipe

PACE LAB #	CLIENT FIELD ID	COLLECTION		MATRIX	Y/N	Pick Letter	Analyses Requested	1															
		DATE	TIME																				
001	6P-1, S-4	4/7/14	0845	S	X		FVOCs + napht																
002	6P-2, S-3	4/7/14	0900	S	X																		
003	6P-2, S-6	4/7/14	0900	S	X																		
004	6P-3, S-3	4/7/14	1030	S	X																		
005	6P-3, S-5	4/7/14	1640	S	X																		
006	6P-4, S-5	4/7/14	1050	S	X																		
007	6P-5, S-3	4/7/14	1110	S	X																		
008	6P-5, S-5	4/7/14	1115	S	X																		
009	6P-6, S-3	4/7/14	1120	S	X																		
010	6P-6, S-5	4/7/14	1125	S	X																		
011	6P-7, S-3	4/7/14	1140	S	X																		
012	6P-7, S-5	4/7/14	1145	S	X																		

CLIENT COMMENTS
LAB COMMENTS (Lab Use Only)
 Profile #

1-40mL v F 1-40ZpA

Rush Turnaround Time Requested - Prelims (Rush TAT subject to approval/surcharge)
 Date Needed:

Transmit Prelim Rush Results by (complete what you want):

Email #1:
 Email #2:
 Telephone:
 Fax:

Samples on HOLD are subject to special pricing and release of liability

Relinquished By: <u>[Signature]</u>	Date/Time: <u>4/7/14 1400</u>	Received By: <u>[Signature]</u>	Date/Time: <u>4-7-14 1400</u>	PACE Project No. <u>4094322</u> Receipt Temp = <u>201</u> °C Sample Receipt pH <u>OK / Adjusted</u> Cooler Custody Seal <u>Present / Not Present</u> <u>Intact / Not Intact</u>
Relinquished By: <u>[Signature]</u>	Date/Time: <u>4/7/14 4:10pm</u>	Received By: <u>[Signature]</u>	Date/Time: <u>4/7/14 1600</u>	
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

Pace Analytical™
Client Name: Mach IV

Project **WO# : 4094322**

Courier: Fed Ex UPS Client Pace Other: _____
Tracking #: _____



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 Blue Dry None Samples on ice, cooling process has begun

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

Temp Blank Present: yes no no

Person examining contents:
Date: 4/8/14
Initials: [Signature]

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 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 & 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 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 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.
-Includes date/time/ID/Analysis Matrix:	<u>4-7-14</u> <u>S</u>	<u>05 + 06 - ED match only</u> <u>05 - Collect info match only</u> <u>010 - Collect info match only</u> <u>4-7-14 SD</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.
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: VOA, coliform, TOC, TOX, TOH, O&G, WIDROW, Phenolics, OTHER:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Initial when completed
		Lab Std #/ID of preservative
		Date/Time:
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 type="checkbox"/> No <input checked="" type="checkbox"/> N/A	15.
Trip Blank Custody Seals Present	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Pace Trip Blank Lot # (if purchased):		

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

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: [Signature] Date: 4-8-14

April 25, 2014

Chad Fradette
Mach IV Engineering & Surveying
211 N. Broadway
Suite 114
Green Bay, WI 54303

RE: Project: 0721-01-14 WEBSTER RESIDENCE
Pace Project No.: 4095040

Dear Chad Fradette:

Enclosed are the analytical results for sample(s) received by the laboratory on April 21, 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,



Brian Basten
brian.basten@pacelabs.com
Project Manager

Enclosures



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: 0721-01-14 WEBSTER RESIDENCE

Pace Project No.: 4095040

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

New York Certification #: 11888

North Dakota Certification #: R-150

South Carolina Certification #: 83006001

US Dept of Agriculture #: S-76505

Wisconsin Certification #: 405132750

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SAMPLE SUMMARY

Project: 0721-01-14 WEBSTER RESIDENCE

Pace Project No.: 4095040

Lab ID	Sample ID	Matrix	Date Collected	Date Received
4095040001	MW-1	Water	04/21/14 12:30	04/21/14 13:20
4095040002	TMW-2	Water	04/21/14 10:30	04/21/14 13:20
4095040003	TMW-3	Water	04/21/14 10:40	04/21/14 13:20
4095040004	TMW-4	Water	04/21/14 10:50	04/21/14 13:20

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SAMPLE ANALYTE COUNT

Project: 0721-01-14 WEBSTER RESIDENCE

Pace Project No.: 4095040

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
4095040001	MW-1	EPA 8260	SMT	64	PASI-G
4095040002	TMW-2	EPA 8260	SMT	64	PASI-G
4095040003	TMW-3	EPA 8260	SMT	64	PASI-G
4095040004	TMW-4	EPA 8260	SMT	64	PASI-G

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: 0721-01-14 WEBSTER RESIDENCE
Pace Project No.: 4095040

Method: EPA 8260
Description: 8260 MSV
Client: Mach IV Engineering
Date: April 25, 2014

General Information:

4 samples were analyzed for EPA 8260. 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.

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.

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: 0721-01-14 WEBSTER RESIDENCE

Sample Project No.: 4095040

Sample: MW-1 Lab ID: 4095040001 Collected: 04/21/14 12:30 Received: 04/21/14 13:20 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
Benzene	<0.50	ug/L	1.0	0.50	1		04/23/14 10:38	71-43-2	
Bromobenzene	<0.23	ug/L	1.0	0.23	1		04/23/14 10:38	108-86-1	
Bromochloromethane	<0.32	ug/L	1.0	0.32	1		04/23/14 10:38	74-97-5	
Bromodichloromethane	<0.50	ug/L	1.0	0.50	1		04/23/14 10:38	75-27-4	
Bromoform	<0.50	ug/L	1.0	0.50	1		04/23/14 10:38	75-25-2	
Bromomethane	<2.4	ug/L	5.0	2.4	1		04/23/14 10:38	74-83-9	
n-Butylbenzene	<0.22	ug/L	1.0	0.22	1		04/23/14 10:38	104-51-8	
sec-Butylbenzene	<2.2	ug/L	5.0	2.2	1		04/23/14 10:38	135-98-8	
tert-Butylbenzene	<0.18	ug/L	1.0	0.18	1		04/23/14 10:38	98-06-6	
Carbon tetrachloride	<0.50	ug/L	1.0	0.50	1		04/23/14 10:38	56-23-5	
Chlorobenzene	<0.50	ug/L	1.0	0.50	1		04/23/14 10:38	108-90-7	
Chloroethane	<0.37	ug/L	1.0	0.37	1		04/23/14 10:38	75-00-3	
Chloroform	<2.5	ug/L	5.0	2.5	1		04/23/14 10:38	67-66-3	
Chloromethane	<0.50	ug/L	1.0	0.50	1		04/23/14 10:38	74-87-3	
2-Chlorotoluene	<0.50	ug/L	1.0	0.50	1		04/23/14 10:38	95-49-8	
4-Chlorotoluene	<0.21	ug/L	1.0	0.21	1		04/23/14 10:38	106-43-4	
1,2-Dibromo-3-chloropropane	<2.2	ug/L	5.0	2.2	1		04/23/14 10:38	96-12-8	
Dibromochloromethane	<0.32	ug/L	1.0	0.32	1		04/23/14 10:38	124-48-1	
1,2-Dibromoethane (EDB)	<0.16	ug/L	1.0	0.16	1		04/23/14 10:38	106-93-4	
Dibromomethane	<0.43	ug/L	1.0	0.43	1		04/23/14 10:38	74-95-3	
1,2-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		04/23/14 10:38	95-50-1	
1,3-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		04/23/14 10:38	541-73-1	
1,4-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		04/23/14 10:38	106-46-7	
Dichlorodifluoromethane	<0.16	ug/L	1.0	0.16	1		04/23/14 10:38	75-71-8	
1,1-Dichloroethane	<0.16	ug/L	1.0	0.16	1		04/23/14 10:38	75-34-3	
1,2-Dichloroethane	<0.17	ug/L	1.0	0.17	1		04/23/14 10:38	107-06-2	
1,1-Dichloroethene	<0.41	ug/L	1.0	0.41	1		04/23/14 10:38	75-35-4	
cis-1,2-Dichloroethene	<0.26	ug/L	1.0	0.26	1		04/23/14 10:38	156-59-2	
trans-1,2-Dichloroethene	<0.24	ug/L	1.0	0.24	1		04/23/14 10:38	156-60-5	
1,2-Dichloropropane	<0.23	ug/L	1.0	0.23	1		04/23/14 10:38	78-87-5	
1,3-Dichloropropane	<0.50	ug/L	1.0	0.50	1		04/23/14 10:38	142-28-9	
2,2-Dichloropropane	<0.48	ug/L	1.0	0.48	1		04/23/14 10:38	594-20-7	
1,1-Dichloropropene	<0.44	ug/L	1.0	0.44	1		04/23/14 10:38	563-58-6	
cis-1,3-Dichloropropene	<0.15	ug/L	1.0	0.15	1		04/23/14 10:38	10061-01-5	
trans-1,3-Dichloropropene	<0.23	ug/L	1.0	0.23	1		04/23/14 10:38	10061-02-6	
Diisopropyl ether	<0.50	ug/L	1.0	0.50	1		04/23/14 10:38	108-20-3	
Ethylbenzene	<0.50	ug/L	1.0	0.50	1		04/23/14 10:38	100-41-4	
Hexachloro-1,3-butadiene	<2.1	ug/L	5.0	2.1	1		04/23/14 10:38	87-68-3	
Isopropylbenzene (Cumene)	<0.12	ug/L	1.0	0.12	1		04/23/14 10:38	98-82-8	
p-Isopropyltoluene	<0.13	ug/L	1.0	0.13	1		04/23/14 10:38	99-87-6	
Methylene Chloride	<0.23	ug/L	1.0	0.23	1		04/23/14 10:38	75-09-2	
Methyl-tert-butyl ether	0.47J	ug/L	1.0	0.17	1		04/23/14 10:38	1634-04-4	
Naphthalene	<2.5	ug/L	5.0	2.5	1		04/23/14 10:38	91-20-3	
n-Propylbenzene	<0.50	ug/L	1.0	0.50	1		04/23/14 10:38	103-65-1	
Styrene	<0.15	ug/L	1.0	0.15	1		04/23/14 10:38	100-42-5	
1,1,1,2-Tetrachloroethane	<0.18	ug/L	1.0	0.18	1		04/23/14 10:38	630-20-6	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 0721-01-14 WEBSTER RESIDENCE

Pace Project No.: 4095040

Sample: MW-1 **Lab ID: 4095040001** Collected: 04/21/14 12:30 Received: 04/21/14 13:20 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Analytical Method: EPA 8260									
1,1,2,2-Tetrachloroethane	<0.25	ug/L	1.0	0.25	1		04/23/14 10:38	79-34-5	
Tetrachloroethene	<0.50	ug/L	1.0	0.50	1		04/23/14 10:38	127-18-4	
Toluene	<0.50	ug/L	1.0	0.50	1		04/23/14 10:38	108-88-3	
1,2,3-Trichlorobenzene	<2.1	ug/L	5.0	2.1	1		04/23/14 10:38	87-61-6	
1,2,4-Trichlorobenzene	<2.2	ug/L	5.0	2.2	1		04/23/14 10:38	120-82-1	
1,1,1-Trichloroethane	<0.50	ug/L	1.0	0.50	1		04/23/14 10:38	71-55-6	
1,1,2-Trichloroethane	<0.16	ug/L	1.0	0.16	1		04/23/14 10:38	79-00-5	
Trichloroethene	<0.33	ug/L	1.0	0.33	1		04/23/14 10:38	79-01-6	
Trichlorofluoromethane	<0.17	ug/L	1.0	0.17	1		04/23/14 10:38	75-69-4	
1,2,3-Trichloropropane	<0.50	ug/L	1.0	0.50	1		04/23/14 10:38	96-18-4	
1,2,4-Trimethylbenzene	<0.50	ug/L	1.0	0.50	1		04/23/14 10:38	95-63-6	
1,3,5-Trimethylbenzene	<0.50	ug/L	1.0	0.50	1		04/23/14 10:38	108-67-8	
Vinyl chloride	<0.18	ug/L	1.0	0.18	1		04/23/14 10:38	75-01-4	
m&p-Xylene	<1.0	ug/L	2.0	1.0	1		04/23/14 10:38	179601-23-1	
o-Xylene	<0.50	ug/L	1.0	0.50	1		04/23/14 10:38	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	93 %		59-130		1		04/23/14 10:38	460-00-4	
Dibromofluoromethane (S)	105 %		70-130		1		04/23/14 10:38	1868-53-7	
Toluene-d8 (S)	96 %		70-130		1		04/23/14 10:38	2037-26-5	

Sample: TMW-2 **Lab ID: 4095040002** Collected: 04/21/14 10:30 Received: 04/21/14 13:20 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Analytical Method: EPA 8260									
Benzene	<0.50	ug/L	1.0	0.50	1		04/23/14 11:00	71-43-2	
Bromobenzene	<0.23	ug/L	1.0	0.23	1		04/23/14 11:00	108-86-1	
Bromochloromethane	<0.32	ug/L	1.0	0.32	1		04/23/14 11:00	74-97-5	
Bromodichloromethane	<0.50	ug/L	1.0	0.50	1		04/23/14 11:00	75-27-4	
Bromoform	<0.50	ug/L	1.0	0.50	1		04/23/14 11:00	75-25-2	
Bromomethane	<2.4	ug/L	5.0	2.4	1		04/23/14 11:00	74-83-9	
n-Butylbenzene	<0.22	ug/L	1.0	0.22	1		04/23/14 11:00	104-51-8	
sec-Butylbenzene	<2.2	ug/L	5.0	2.2	1		04/23/14 11:00	135-98-8	
tert-Butylbenzene	<0.18	ug/L	1.0	0.18	1		04/23/14 11:00	98-06-6	
Carbon tetrachloride	<0.50	ug/L	1.0	0.50	1		04/23/14 11:00	56-23-5	
Chlorobenzene	<0.50	ug/L	1.0	0.50	1		04/23/14 11:00	108-90-7	
Chloroethane	<0.37	ug/L	1.0	0.37	1		04/23/14 11:00	75-00-3	
Chloroform	<2.5	ug/L	5.0	2.5	1		04/23/14 11:00	67-66-3	
Chloromethane	<0.50	ug/L	1.0	0.50	1		04/23/14 11:00	74-87-3	
2-Chlorotoluene	<0.50	ug/L	1.0	0.50	1		04/23/14 11:00	95-49-8	
4-Chlorotoluene	<0.21	ug/L	1.0	0.21	1		04/23/14 11:00	106-43-4	
1,2-Dibromo-3-chloropropane	<2.2	ug/L	5.0	2.2	1		04/23/14 11:00	96-12-8	
Dibromochloromethane	<0.32	ug/L	1.0	0.32	1		04/23/14 11:00	124-48-1	
1,2-Dibromoethane (EDB)	<0.16	ug/L	1.0	0.16	1		04/23/14 11:00	106-93-4	

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ANALYTICAL RESULTS

Project: 0721-01-14 WEBSTER RESIDENCE

Pace Project No.: 4095040

Sample: TMW-2 **Lab ID: 4095040002** Collected: 04/21/14 10:30 Received: 04/21/14 13:20 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Analytical Method: EPA 8260									
Dibromomethane	<0.43	ug/L	1.0	0.43	1		04/23/14 11:00	74-95-3	
1,2-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		04/23/14 11:00	95-50-1	
1,3-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		04/23/14 11:00	541-73-1	
1,4-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		04/23/14 11:00	106-46-7	
Dichlorodifluoromethane	<0.16	ug/L	1.0	0.16	1		04/23/14 11:00	75-71-8	
1,1-Dichloroethane	<0.16	ug/L	1.0	0.16	1		04/23/14 11:00	75-34-3	
1,2-Dichloroethane	<0.17	ug/L	1.0	0.17	1		04/23/14 11:00	107-06-2	
1,1-Dichloroethene	<0.41	ug/L	1.0	0.41	1		04/23/14 11:00	75-35-4	
cis-1,2-Dichloroethene	<0.26	ug/L	1.0	0.26	1		04/23/14 11:00	156-59-2	
trans-1,2-Dichloroethene	<0.24	ug/L	1.0	0.24	1		04/23/14 11:00	156-60-5	
1,2-Dichloropropane	<0.23	ug/L	1.0	0.23	1		04/23/14 11:00	78-87-5	
1,3-Dichloropropane	<0.50	ug/L	1.0	0.50	1		04/23/14 11:00	142-28-9	
2,2-Dichloropropane	<0.48	ug/L	1.0	0.48	1		04/23/14 11:00	594-20-7	
1,1-Dichloropropene	<0.44	ug/L	1.0	0.44	1		04/23/14 11:00	563-58-6	
cis-1,3-Dichloropropene	<0.15	ug/L	1.0	0.15	1		04/23/14 11:00	10061-01-5	
trans-1,3-Dichloropropene	<0.23	ug/L	1.0	0.23	1		04/23/14 11:00	10061-02-6	
Diisopropyl ether	<0.50	ug/L	1.0	0.50	1		04/23/14 11:00	108-20-3	
Ethylbenzene	<0.50	ug/L	1.0	0.50	1		04/23/14 11:00	100-41-4	
Hexachloro-1,3-butadiene	<2.1	ug/L	5.0	2.1	1		04/23/14 11:00	87-68-3	
Isopropylbenzene (Cumene)	<0.12	ug/L	1.0	0.12	1		04/23/14 11:00	98-82-8	
p-Isopropyltoluene	<0.13	ug/L	1.0	0.13	1		04/23/14 11:00	99-87-6	
Methylene Chloride	<0.23	ug/L	1.0	0.23	1		04/23/14 11:00	75-09-2	
Methyl-tert-butyl ether	<0.17	ug/L	1.0	0.17	1		04/23/14 11:00	1634-04-4	
Naphthalene	<2.5	ug/L	5.0	2.5	1		04/23/14 11:00	91-20-3	
n-Propylbenzene	<0.50	ug/L	1.0	0.50	1		04/23/14 11:00	103-65-1	
Styrene	<0.15	ug/L	1.0	0.15	1		04/23/14 11:00	100-42-5	
1,1,1,2-Tetrachloroethane	<0.18	ug/L	1.0	0.18	1		04/23/14 11:00	630-20-6	
1,1,2,2-Tetrachloroethane	<0.25	ug/L	1.0	0.25	1		04/23/14 11:00	79-34-5	
Tetrachloroethene	<0.50	ug/L	1.0	0.50	1		04/23/14 11:00	127-18-4	
Toluene	<0.50	ug/L	1.0	0.50	1		04/23/14 11:00	108-88-3	
1,2,3-Trichlorobenzene	<2.1	ug/L	5.0	2.1	1		04/23/14 11:00	87-61-6	
1,2,4-Trichlorobenzene	<2.2	ug/L	5.0	2.2	1		04/23/14 11:00	120-82-1	
1,1,1-Trichloroethane	<0.50	ug/L	1.0	0.50	1		04/23/14 11:00	71-55-6	
1,1,2-Trichloroethane	<0.16	ug/L	1.0	0.16	1		04/23/14 11:00	79-00-5	
Trichloroethene	<0.33	ug/L	1.0	0.33	1		04/23/14 11:00	79-01-6	
Trichlorofluoromethane	<0.17	ug/L	1.0	0.17	1		04/23/14 11:00	75-69-4	
1,2,3-Trichloropropane	<0.50	ug/L	1.0	0.50	1		04/23/14 11:00	96-18-4	
1,2,4-Trimethylbenzene	<0.50	ug/L	1.0	0.50	1		04/23/14 11:00	95-63-6	
1,3,5-Trimethylbenzene	<0.50	ug/L	1.0	0.50	1		04/23/14 11:00	108-67-8	
Vinyl chloride	<0.18	ug/L	1.0	0.18	1		04/23/14 11:00	75-01-4	
m&p-Xylene	<1.0	ug/L	2.0	1.0	1		04/23/14 11:00	179601-23-1	
o-Xylene	<0.50	ug/L	1.0	0.50	1		04/23/14 11:00	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	92 %		59-130		1		04/23/14 11:00	460-00-4	
Dibromofluoromethane (S)	104 %		70-130		1		04/23/14 11:00	1868-53-7	
Toluene-d8 (S)	95 %		70-130		1		04/23/14 11:00	2037-26-5	

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ANALYTICAL RESULTS

Project: 0721-01-14 WEBSTER RESIDENCE

Project No.: 4095040

Sample: **TMW-3** Lab ID: **4095040003** Collected: 04/21/14 10:40 Received: 04/21/14 13:20 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
Benzene	<0.50	ug/L	1.0	0.50	1		04/23/14 11:22	71-43-2	
Bromobenzene	<0.23	ug/L	1.0	0.23	1		04/23/14 11:22	108-86-1	
Bromochloromethane	<0.32	ug/L	1.0	0.32	1		04/23/14 11:22	74-97-5	
Bromodichloromethane	<0.50	ug/L	1.0	0.50	1		04/23/14 11:22	75-27-4	
Bromoform	<0.50	ug/L	1.0	0.50	1		04/23/14 11:22	75-25-2	
Bromomethane	<2.4	ug/L	5.0	2.4	1		04/23/14 11:22	74-83-9	
n-Butylbenzene	<0.22	ug/L	1.0	0.22	1		04/23/14 11:22	104-51-8	
sec-Butylbenzene	<2.2	ug/L	5.0	2.2	1		04/23/14 11:22	135-98-8	
tert-Butylbenzene	<0.18	ug/L	1.0	0.18	1		04/23/14 11:22	98-06-6	
Carbon tetrachloride	<0.50	ug/L	1.0	0.50	1		04/23/14 11:22	56-23-5	
Chlorobenzene	<0.50	ug/L	1.0	0.50	1		04/23/14 11:22	108-90-7	
Chloroethane	<0.37	ug/L	1.0	0.37	1		04/23/14 11:22	75-00-3	
Chloroform	<2.5	ug/L	5.0	2.5	1		04/23/14 11:22	67-66-3	
Chloromethane	<0.50	ug/L	1.0	0.50	1		04/23/14 11:22	74-87-3	
2-Chlorotoluene	<0.50	ug/L	1.0	0.50	1		04/23/14 11:22	95-49-8	
4-Chlorotoluene	<0.21	ug/L	1.0	0.21	1		04/23/14 11:22	106-43-4	
1,2-Dibromo-3-chloropropane	<2.2	ug/L	5.0	2.2	1		04/23/14 11:22	96-12-8	
Dibromochloromethane	<0.32	ug/L	1.0	0.32	1		04/23/14 11:22	124-48-1	
1,2-Dibromoethane (EDB)	<0.16	ug/L	1.0	0.16	1		04/23/14 11:22	106-93-4	
Dibromomethane	<0.43	ug/L	1.0	0.43	1		04/23/14 11:22	74-95-3	
1,2-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		04/23/14 11:22	95-50-1	
1,3-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		04/23/14 11:22	541-73-1	
1,4-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		04/23/14 11:22	106-46-7	
Dichlorodifluoromethane	<0.16	ug/L	1.0	0.16	1		04/23/14 11:22	75-71-8	
1,1-Dichloroethane	<0.16	ug/L	1.0	0.16	1		04/23/14 11:22	75-34-3	
1,2-Dichloroethane	<0.17	ug/L	1.0	0.17	1		04/23/14 11:22	107-06-2	
1,1-Dichloroethene	<0.41	ug/L	1.0	0.41	1		04/23/14 11:22	75-35-4	
cis-1,2-Dichloroethene	<0.26	ug/L	1.0	0.26	1		04/23/14 11:22	156-59-2	
trans-1,2-Dichloroethene	<0.24	ug/L	1.0	0.24	1		04/23/14 11:22	156-60-5	
1,2-Dichloropropane	<0.23	ug/L	1.0	0.23	1		04/23/14 11:22	78-87-5	
1,3-Dichloropropane	<0.50	ug/L	1.0	0.50	1		04/23/14 11:22	142-28-9	
2,2-Dichloropropane	<0.48	ug/L	1.0	0.48	1		04/23/14 11:22	594-20-7	
1,1-Dichloropropene	<0.44	ug/L	1.0	0.44	1		04/23/14 11:22	563-58-6	
cis-1,3-Dichloropropene	<0.15	ug/L	1.0	0.15	1		04/23/14 11:22	10061-01-5	
trans-1,3-Dichloropropene	<0.23	ug/L	1.0	0.23	1		04/23/14 11:22	10061-02-6	
Diisopropyl ether	<0.50	ug/L	1.0	0.50	1		04/23/14 11:22	108-20-3	
Ethylbenzene	<0.50	ug/L	1.0	0.50	1		04/23/14 11:22	100-41-4	
Hexachloro-1,3-butadiene	<2.1	ug/L	5.0	2.1	1		04/23/14 11:22	87-68-3	
Isopropylbenzene (Cumene)	<0.12	ug/L	1.0	0.12	1		04/23/14 11:22	98-82-8	
p-Isopropyltoluene	<0.13	ug/L	1.0	0.13	1		04/23/14 11:22	99-87-6	
Methylene Chloride	<0.23	ug/L	1.0	0.23	1		04/23/14 11:22	75-09-2	
Methyl-tert-butyl ether	<0.17	ug/L	1.0	0.17	1		04/23/14 11:22	1634-04-4	
Naphthalene	<2.5	ug/L	5.0	2.5	1		04/23/14 11:22	91-20-3	
n-Propylbenzene	<0.50	ug/L	1.0	0.50	1		04/23/14 11:22	103-65-1	
Styrene	<0.15	ug/L	1.0	0.15	1		04/23/14 11:22	100-42-5	
1,1,1,2-Tetrachloroethane	<0.18	ug/L	1.0	0.18	1		04/23/14 11:22	630-20-6	

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ANALYTICAL RESULTS

Project: 0721-01-14 WEBSTER RESIDENCE

Pace Project No.: 4095040

Sample: **TMW-3** Lab ID: **4095040003** Collected: 04/21/14 10:40 Received: 04/21/14 13:20 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Analytical Method: EPA 8260									
1,1,2,2-Tetrachloroethane	<0.25	ug/L	1.0	0.25	1		04/23/14 11:22	79-34-5	
Tetrachloroethene	<0.50	ug/L	1.0	0.50	1		04/23/14 11:22	127-18-4	
Toluene	<0.50	ug/L	1.0	0.50	1		04/23/14 11:22	108-88-3	
1,2,3-Trichlorobenzene	<2.1	ug/L	5.0	2.1	1		04/23/14 11:22	87-61-6	
1,2,4-Trichlorobenzene	<2.2	ug/L	5.0	2.2	1		04/23/14 11:22	120-82-1	
1,1,1-Trichloroethane	<0.50	ug/L	1.0	0.50	1		04/23/14 11:22	71-55-6	
1,1,2-Trichloroethane	<0.16	ug/L	1.0	0.16	1		04/23/14 11:22	79-00-5	
Trichloroethene	<0.33	ug/L	1.0	0.33	1		04/23/14 11:22	79-01-6	
Trichlorofluoromethane	<0.17	ug/L	1.0	0.17	1		04/23/14 11:22	75-69-4	
1,2,3-Trichloropropane	<0.50	ug/L	1.0	0.50	1		04/23/14 11:22	96-18-4	
1,2,4-Trimethylbenzene	<0.50	ug/L	1.0	0.50	1		04/23/14 11:22	95-63-6	
1,3,5-Trimethylbenzene	<0.50	ug/L	1.0	0.50	1		04/23/14 11:22	108-67-8	
Vinyl chloride	<0.18	ug/L	1.0	0.18	1		04/23/14 11:22	75-01-4	
m&p-Xylene	<1.0	ug/L	2.0	1.0	1		04/23/14 11:22	179601-23-1	
o-Xylene	<0.50	ug/L	1.0	0.50	1		04/23/14 11:22	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	94 %		59-130		1		04/23/14 11:22	460-00-4	
Dibromofluoromethane (S)	101 %		70-130		1		04/23/14 11:22	1868-53-7	
Toluene-d8 (S)	95 %		70-130		1		04/23/14 11:22	2037-26-5	

Sample: **TMW-4** Lab ID: **4095040004** Collected: 04/21/14 10:50 Received: 04/21/14 13:20 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Analytical Method: EPA 8260									
Benzene	<0.50	ug/L	1.0	0.50	1		04/23/14 11:45	71-43-2	
Bromobenzene	<0.23	ug/L	1.0	0.23	1		04/23/14 11:45	108-86-1	
Bromochloromethane	<0.32	ug/L	1.0	0.32	1		04/23/14 11:45	74-97-5	
Bromodichloromethane	<0.50	ug/L	1.0	0.50	1		04/23/14 11:45	75-27-4	
Bromoform	<0.50	ug/L	1.0	0.50	1		04/23/14 11:45	75-25-2	
Bromomethane	<2.4	ug/L	5.0	2.4	1		04/23/14 11:45	74-83-9	
n-Butylbenzene	<0.22	ug/L	1.0	0.22	1		04/23/14 11:45	104-51-8	
sec-Butylbenzene	<2.2	ug/L	5.0	2.2	1		04/23/14 11:45	135-98-8	
tert-Butylbenzene	<0.18	ug/L	1.0	0.18	1		04/23/14 11:45	98-06-6	
Carbon tetrachloride	<0.50	ug/L	1.0	0.50	1		04/23/14 11:45	56-23-5	
Chlorobenzene	<0.50	ug/L	1.0	0.50	1		04/23/14 11:45	108-90-7	
Chloroethane	<0.37	ug/L	1.0	0.37	1		04/23/14 11:45	75-00-3	
Chloroform	<2.5	ug/L	5.0	2.5	1		04/23/14 11:45	67-66-3	
Chloromethane	<0.50	ug/L	1.0	0.50	1		04/23/14 11:45	74-87-3	
2-Chlorotoluene	<0.50	ug/L	1.0	0.50	1		04/23/14 11:45	95-49-8	
4-Chlorotoluene	<0.21	ug/L	1.0	0.21	1		04/23/14 11:45	106-43-4	
1,2-Dibromo-3-chloropropane	<2.2	ug/L	5.0	2.2	1		04/23/14 11:45	96-12-8	
Dibromochloromethane	<0.32	ug/L	1.0	0.32	1		04/23/14 11:45	124-48-1	
1,2-Dibromoethane (EDB)	<0.16	ug/L	1.0	0.16	1		04/23/14 11:45	106-93-4	

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ANALYTICAL RESULTS

Project: 0721-01-14 WEBSTER RESIDENCE

Sample Project No.: 4095040

Sample: TMW-4 **Lab ID: 4095040004** Collected: 04/21/14 10:50 Received: 04/21/14 13:20 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
Dibromomethane	<0.43	ug/L	1.0	0.43	1		04/23/14 11:45	74-95-3	
1,2-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		04/23/14 11:45	95-50-1	
1,3-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		04/23/14 11:45	541-73-1	
1,4-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		04/23/14 11:45	106-46-7	
Dichlorodifluoromethane	<0.16	ug/L	1.0	0.16	1		04/23/14 11:45	75-71-8	
1,1-Dichloroethane	<0.16	ug/L	1.0	0.16	1		04/23/14 11:45	75-34-3	
1,2-Dichloroethane	<0.17	ug/L	1.0	0.17	1		04/23/14 11:45	107-06-2	
1,1-Dichloroethene	<0.41	ug/L	1.0	0.41	1		04/23/14 11:45	75-35-4	
cis-1,2-Dichloroethene	<0.26	ug/L	1.0	0.26	1		04/23/14 11:45	156-59-2	
trans-1,2-Dichloroethene	<0.24	ug/L	1.0	0.24	1		04/23/14 11:45	156-60-5	
1,2-Dichloropropane	<0.23	ug/L	1.0	0.23	1		04/23/14 11:45	78-87-5	
1,3-Dichloropropane	<0.50	ug/L	1.0	0.50	1		04/23/14 11:45	142-28-9	
2,2-Dichloropropane	<0.48	ug/L	1.0	0.48	1		04/23/14 11:45	594-20-7	
1,1-Dichloropropene	<0.44	ug/L	1.0	0.44	1		04/23/14 11:45	563-58-6	
cis-1,3-Dichloropropene	<0.15	ug/L	1.0	0.15	1		04/23/14 11:45	10061-01-5	
trans-1,3-Dichloropropene	<0.23	ug/L	1.0	0.23	1		04/23/14 11:45	10061-02-6	
Diisopropyl ether	<0.50	ug/L	1.0	0.50	1		04/23/14 11:45	108-20-3	
Ethylbenzene	<0.50	ug/L	1.0	0.50	1		04/23/14 11:45	100-41-4	
Hexachloro-1,3-butadiene	<2.1	ug/L	5.0	2.1	1		04/23/14 11:45	87-68-3	
Isopropylbenzene (Cumene)	<0.12	ug/L	1.0	0.12	1		04/23/14 11:45	98-82-8	
p-Isopropyltoluene	<0.13	ug/L	1.0	0.13	1		04/23/14 11:45	99-87-6	
Methylene Chloride	<0.23	ug/L	1.0	0.23	1		04/23/14 11:45	75-09-2	
Methyl-tert-butyl ether	<0.17	ug/L	1.0	0.17	1		04/23/14 11:45	1634-04-4	
Naphthalene	<2.5	ug/L	5.0	2.5	1		04/23/14 11:45	91-20-3	
n-Propylbenzene	<0.50	ug/L	1.0	0.50	1		04/23/14 11:45	103-65-1	
Styrene	<0.15	ug/L	1.0	0.15	1		04/23/14 11:45	100-42-5	
1,1,1,2-Tetrachloroethane	<0.18	ug/L	1.0	0.18	1		04/23/14 11:45	630-20-6	
1,1,2,2-Tetrachloroethane	<0.25	ug/L	1.0	0.25	1		04/23/14 11:45	79-34-5	
Tetrachloroethene	<0.50	ug/L	1.0	0.50	1		04/23/14 11:45	127-18-4	
Toluene	<0.50	ug/L	1.0	0.50	1		04/23/14 11:45	108-88-3	
1,2,3-Trichlorobenzene	<2.1	ug/L	5.0	2.1	1		04/23/14 11:45	87-61-6	
1,2,4-Trichlorobenzene	<2.2	ug/L	5.0	2.2	1		04/23/14 11:45	120-82-1	
1,1,1-Trichloroethane	<0.50	ug/L	1.0	0.50	1		04/23/14 11:45	71-55-6	
1,1,2-Trichloroethane	<0.16	ug/L	1.0	0.16	1		04/23/14 11:45	79-00-5	
Trichloroethene	<0.33	ug/L	1.0	0.33	1		04/23/14 11:45	79-01-6	
Trichlorofluoromethane	<0.17	ug/L	1.0	0.17	1		04/23/14 11:45	75-69-4	
1,2,3-Trichloropropane	<0.50	ug/L	1.0	0.50	1		04/23/14 11:45	96-18-4	
1,2,4-Trimethylbenzene	<0.50	ug/L	1.0	0.50	1		04/23/14 11:45	95-63-6	
1,3,5-Trimethylbenzene	<0.50	ug/L	1.0	0.50	1		04/23/14 11:45	108-67-8	
Vinyl chloride	<0.18	ug/L	1.0	0.18	1		04/23/14 11:45	75-01-4	
m&p-Xylene	<1.0	ug/L	2.0	1.0	1		04/23/14 11:45	179601-23-1	
o-Xylene	<0.50	ug/L	1.0	0.50	1		04/23/14 11:45	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	92 %		59-130		1		04/23/14 11:45	460-00-4	
Dibromofluoromethane (S)	100 %		70-130		1		04/23/14 11:45	1868-53-7	
Toluene-d8 (S)	97 %		70-130		1		04/23/14 11:45	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 0721-01-14 WEBSTER RESIDENCE

Pace Project No.: 4095040

QC Batch: MSV/23906 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV
Associated Lab Samples: 4095040001, 4095040002, 4095040003, 4095040004

METHOD BLANK: 959233 Matrix: Water
Associated Lab Samples: 4095040001, 4095040002, 4095040003, 4095040004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	<0.18	1.0	04/23/14 07:54	
1,1,1-Trichloroethane	ug/L	<0.50	1.0	04/23/14 07:54	
1,1,2,2-Tetrachloroethane	ug/L	<0.25	1.0	04/23/14 07:54	
1,1,2-Trichloroethane	ug/L	<0.16	1.0	04/23/14 07:54	
1,1-Dichloroethane	ug/L	<0.16	1.0	04/23/14 07:54	
1,1-Dichloroethene	ug/L	<0.41	1.0	04/23/14 07:54	
1,1-Dichloropropene	ug/L	<0.44	1.0	04/23/14 07:54	
1,2,3-Trichlorobenzene	ug/L	<2.1	5.0	04/23/14 07:54	
1,2,3-Trichloropropane	ug/L	<0.50	1.0	04/23/14 07:54	
1,2,4-Trichlorobenzene	ug/L	<2.2	5.0	04/23/14 07:54	
1,2,4-Trimethylbenzene	ug/L	<0.50	1.0	04/23/14 07:54	
1,2-Dibromo-3-chloropropane	ug/L	<2.2	5.0	04/23/14 07:54	
1,2-Dibromoethane (EDB)	ug/L	<0.16	1.0	04/23/14 07:54	
1,2-Dichlorobenzene	ug/L	<0.50	1.0	04/23/14 07:54	
1,2-Dichloroethane	ug/L	<0.17	1.0	04/23/14 07:54	
1,2-Dichloropropane	ug/L	<0.23	1.0	04/23/14 07:54	
1,3,5-Trimethylbenzene	ug/L	<0.50	1.0	04/23/14 07:54	
1,3-Dichlorobenzene	ug/L	<0.50	1.0	04/23/14 07:54	
1,3-Dichloropropane	ug/L	<0.50	1.0	04/23/14 07:54	
1,4-Dichlorobenzene	ug/L	<0.50	1.0	04/23/14 07:54	
2,2-Dichloropropane	ug/L	<0.48	1.0	04/23/14 07:54	
2-Chlorotoluene	ug/L	<0.50	1.0	04/23/14 07:54	
4-Chlorotoluene	ug/L	<0.21	1.0	04/23/14 07:54	
Benzene	ug/L	<0.50	1.0	04/23/14 07:54	
Bromobenzene	ug/L	<0.23	1.0	04/23/14 07:54	
Bromochloromethane	ug/L	<0.32	1.0	04/23/14 07:54	
Bromodichloromethane	ug/L	<0.50	1.0	04/23/14 07:54	
Bromoform	ug/L	<0.50	1.0	04/23/14 07:54	
Bromomethane	ug/L	<2.4	5.0	04/23/14 07:54	
Carbon tetrachloride	ug/L	<0.50	1.0	04/23/14 07:54	
Chlorobenzene	ug/L	<0.50	1.0	04/23/14 07:54	
Chloroethane	ug/L	<0.37	1.0	04/23/14 07:54	
Chloroform	ug/L	<2.5	5.0	04/23/14 07:54	
Chloromethane	ug/L	<0.50	1.0	04/23/14 07:54	
cis-1,2-Dichloroethene	ug/L	<0.26	1.0	04/23/14 07:54	
cis-1,3-Dichloropropene	ug/L	<0.15	1.0	04/23/14 07:54	
Dibromochloromethane	ug/L	<0.32	1.0	04/23/14 07:54	
Dibromomethane	ug/L	<0.43	1.0	04/23/14 07:54	
Dichlorodifluoromethane	ug/L	<0.16	1.0	04/23/14 07:54	
Diisopropyl ether	ug/L	<0.50	1.0	04/23/14 07:54	
Ethylbenzene	ug/L	<0.50	1.0	04/23/14 07:54	
Hexachloro-1,3-butadiene	ug/L	<2.1	5.0	04/23/14 07:54	
Isopropylbenzene (Cumene)	ug/L	<0.12	1.0	04/23/14 07:54	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 0721-01-14 WEBSTER RESIDENCE

Pace Project No.: 4095040

METHOD BLANK: 959233

Matrix: Water

Associated Lab Samples: 4095040001, 4095040002, 4095040003, 4095040004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
m&p-Xylene	ug/L	<1.0	2.0	04/23/14 07:54	
Methyl-tert-butyl ether	ug/L	<0.17	1.0	04/23/14 07:54	
Methylene Chloride	ug/L	<0.23	1.0	04/23/14 07:54	
n-Butylbenzene	ug/L	<0.22	1.0	04/23/14 07:54	
n-Propylbenzene	ug/L	<0.50	1.0	04/23/14 07:54	
Naphthalene	ug/L	<2.5	5.0	04/23/14 07:54	
o-Xylene	ug/L	<0.50	1.0	04/23/14 07:54	
p-Isopropyltoluene	ug/L	<0.13	1.0	04/23/14 07:54	
sec-Butylbenzene	ug/L	<2.2	5.0	04/23/14 07:54	
Styrene	ug/L	<0.15	1.0	04/23/14 07:54	
tert-Butylbenzene	ug/L	<0.18	1.0	04/23/14 07:54	
Tetrachloroethene	ug/L	<0.50	1.0	04/23/14 07:54	
Toluene	ug/L	<0.50	1.0	04/23/14 07:54	
trans-1,2-Dichloroethene	ug/L	<0.24	1.0	04/23/14 07:54	
trans-1,3-Dichloropropene	ug/L	<0.23	1.0	04/23/14 07:54	
Trichloroethene	ug/L	<0.33	1.0	04/23/14 07:54	
Trichlorofluoromethane	ug/L	<0.17	1.0	04/23/14 07:54	
Vinyl chloride	ug/L	<0.18	1.0	04/23/14 07:54	
4-Bromofluorobenzene (S)	%	93	59-130	04/23/14 07:54	
Dibromofluoromethane (S)	%	100	70-130	04/23/14 07:54	
Toluene-d8 (S)	%	94	70-130	04/23/14 07:54	

LABORATORY CONTROL SAMPLE & LCSD: 959234

959235

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
1,1,1-Trichloroethane	ug/L	50	54.0	53.9	108	108	70-130	0	20	
1,1,2,2-Tetrachloroethane	ug/L	50	49.1	48.4	98	97	70-130	2	20	
1,1,2-Trichloroethane	ug/L	50	49.2	49.1	98	98	70-130	0	20	
1,1-Dichloroethane	ug/L	50	54.7	56.5	109	113	70-130	3	20	
1,1-Dichloroethene	ug/L	50	49.8	49.5	100	99	70-132	0	20	
1,2,4-Trichlorobenzene	ug/L	50	49.5	52.6	99	105	70-130	6	20	
1,2-Dibromo-3-chloropropane	ug/L	50	50.9	50.6	102	101	50-150	0	20	
1,2-Dibromoethane (EDB)	ug/L	50	50.1	48.9	100	98	70-130	2	20	
1,2-Dichlorobenzene	ug/L	50	50.2	50.6	100	101	70-130	1	20	
1,2-Dichloroethane	ug/L	50	53.6	54.3	107	109	70-130	1	20	
1,2-Dichloropropane	ug/L	50	54.7	58.0	109	116	70-130	6	20	
1,3-Dichlorobenzene	ug/L	50	48.3	48.6	97	97	70-130	1	20	
1,4-Dichlorobenzene	ug/L	50	51.8	52.9	104	106	70-130	2	20	
Benzene	ug/L	50	54.7	55.8	109	112	70-130	2	20	
Bromodichloromethane	ug/L	50	51.8	53.0	104	106	70-130	2	20	
Bromoform	ug/L	50	48.0	47.7	96	95	70-130	1	20	
Bromomethane	ug/L	50	24.0	29.2	48	58	34-157	19	20	
Carbon tetrachloride	ug/L	50	55.4	55.1	111	110	70-132	1	20	
Chlorobenzene	ug/L	50	50.3	52.1	101	104	70-130	3	20	
Chloroethane	ug/L	50	49.7	50.6	99	101	60-143	2	20	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 0721-01-14 WEBSTER RESIDENCE

Pace Project No.: 4095040

LABORATORY CONTROL SAMPLE & LCSD: 959234		959235								
Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Chloroform	ug/L	50	59.3	61.0	119	122	70-130	3	20	
Chloromethane	ug/L	50	45.4	46.2	91	92	43-148	2	20	
cis-1,2-Dichloroethene	ug/L	50	51.2	53.2	102	106	51-133	4	20	
cis-1,3-Dichloropropene	ug/L	50	56.2	56.1	112	112	70-130	0	20	
Dibromochloromethane	ug/L	50	49.3	49.8	99	100	70-130	1	20	
Dichlorodifluoromethane	ug/L	50	33.3	32.7	67	65	10-174	2	20	
Ethylbenzene	ug/L	50	55.9	56.5	112	113	70-130	1	20	
Isopropylbenzene (Cumene)	ug/L	50	56.7	58.1	113	116	70-136	2	20	
m&p-Xylene	ug/L	100	113	115	113	115	70-131	2	20	
Methyl-tert-butyl ether	ug/L	50	53.7	54.2	107	108	54-139	1	20	
Methylene Chloride	ug/L	50	52.4	54.7	105	109	70-130	4	20	
o-Xylene	ug/L	50	56.9	57.6	114	115	70-130	1	20	
Styrene	ug/L	50	59.5	59.9	119	120	70-130	1	20	
Tetrachloroethene	ug/L	50	47.2	46.2	94	92	70-130	2	20	
Toluene	ug/L	50	51.1	52.1	102	104	70-130	2	20	
trans-1,2-Dichloroethene	ug/L	50	50.9	52.7	102	105	70-130	3	20	
trans-1,3-Dichloropropene	ug/L	50	48.6	48.7	97	97	70-130	0	20	
Trichloroethene	ug/L	50	52.5	54.0	105	108	70-130	3	20	
Trichlorofluoromethane	ug/L	50	51.7	52.8	103	106	50-150	2	20	
Vinyl chloride	ug/L	50	46.1	47.6	92	95	59-157	3	20	
4-Bromofluorobenzene (S)	%				107	109	59-130			
Dibromofluoromethane (S)	%				98	100	70-130			
Toluene-d8 (S)	%				95	95	70-130			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 959390		959391											
Parameter	Units	4095040001		MS	MSD	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		Result	Conc.	Spike Conc.	Spike Conc.								
1,1,1-Trichloroethane	ug/L	<0.50	50	50	53.5	56.1	107	112	70-130	5	20		
1,1,2,2-Tetrachloroethane	ug/L	<0.25	50	50	47.1	49.9	94	100	70-130	6	20		
1,1,2-Trichloroethane	ug/L	<0.16	50	50	47.0	50.4	94	101	70-130	7	20		
1,1-Dichloroethane	ug/L	<0.16	50	50	53.2	56.5	106	113	70-130	6	20		
1,1-Dichloroethene	ug/L	<0.41	50	50	49.9	51.3	100	103	70-138	3	20		
1,2,4-Trichlorobenzene	ug/L	<2.2	50	50	50.8	55.8	100	110	70-130	9	20		
1,2-Dibromo-3-chloropropane	ug/L	<2.2	50	50	49.9	51.8	100	104	50-150	4	20		
1,2-Dibromoethane (EDB)	ug/L	<0.16	50	50	47.4	50.3	95	101	70-130	6	20		
1,2-Dichlorobenzene	ug/L	<0.50	50	50	47.6	52.2	95	104	70-130	9	20		
1,2-Dichloroethane	ug/L	<0.17	50	50	51.7	54.8	103	110	70-130	6	20		
1,2-Dichloropropane	ug/L	<0.23	50	50	55.1	56.4	110	113	70-130	2	20		
1,3-Dichlorobenzene	ug/L	<0.50	50	50	46.1	49.6	92	99	70-130	7	20		
1,4-Dichlorobenzene	ug/L	<0.50	50	50	49.3	52.6	99	105	70-130	7	20		
Benzene	ug/L	<0.50	50	50	53.6	55.8	107	112	70-130	4	20		
Bromodichloromethane	ug/L	<0.50	50	50	50.3	53.4	101	107	70-130	6	20		
Bromoform	ug/L	<0.50	50	50	45.5	49.6	91	99	70-130	9	20		
Bromomethane	ug/L	<2.4	50	50	29.4	31.5	59	63	34-159	7	20		
Carbon tetrachloride	ug/L	<0.50	50	50	56.0	57.9	112	116	70-132	3	20		
Chlorobenzene	ug/L	<0.50	50	50	48.9	52.2	98	104	70-130	6	20		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 0721-01-14 WEBSTER RESIDENCE

Pace Project No.: 4095040

Parameter	MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 959390			959391			MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Qual
	Units	4095040001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result					
Chloroethane	ug/L	<0.37	50	50	47.9	50.1	96	100	60-143	5	20
Chloroform	ug/L	<2.5	50	50	57.9	60.9	116	122	70-130	5	20
Chloromethane	ug/L	<0.50	50	50	42.3	44.4	85	89	43-149	5	20
cis-1,2-Dichloroethene	ug/L	<0.26	50	50	50.4	52.5	101	105	48-137	4	33
cis-1,3-Dichloropropene	ug/L	<0.15	50	50	53.8	57.2	108	114	70-130	6	20
Dibromochloromethane	ug/L	<0.32	50	50	47.8	51.4	96	103	70-130	7	20
Dichlorodifluoromethane	ug/L	<0.16	50	50	29.8	30.3	60	61	10-174	2	20
Ethylbenzene	ug/L	<0.50	50	50	53.8	58.0	108	116	70-130	8	20
Isopropylbenzene (Cumene)	ug/L	<0.12	50	50	55.9	59.5	112	119	70-136	6	20
m&p-Xylene	ug/L	<1.0	100	100	109	119	109	119	70-135	9	20
Methyl-tert-butyl ether	ug/L	0.47J	50	50	52.6	54.9	104	109	54-139	4	20
Methylene Chloride	ug/L	<0.23	50	50	51.1	53.8	102	108	70-133	5	20
o-Xylene	ug/L	<0.50	50	50	55.5	60.4	111	121	70-130	8	20
Styrene	ug/L	<0.15	50	50	57.6	61.5	115	123	70-130	7	20
Tetrachloroethene	ug/L	<0.50	50	50	46.5	48.8	92	97	70-130	5	20
Toluene	ug/L	<0.50	50	50	49.6	53.4	99	107	70-130	7	20
trans-1,2-Dichloroethene	ug/L	<0.24	50	50	50.2	52.9	100	106	70-130	5	20
trans-1,3-Dichloropropene	ug/L	<0.23	50	50	46.6	50.8	93	102	70-130	9	20
Trichloroethene	ug/L	<0.33	50	50	51.7	55.0	103	110	70-130	6	20
Trichlorofluoromethane	ug/L	<0.17	50	50	52.0	53.5	104	107	50-150	3	20
Vinyl chloride	ug/L	<0.18	50	50	46.5	47.8	93	96	59-158	3	20
4-Bromofluorobenzene (S)	%						108	107	59-130		
Dibromofluoromethane (S)	%						100	98	70-130		
Toluene-d8 (S)	%						96	97	70-130		

REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: 0721-01-14 WEBSTER RESIDENCE

Pace Project No.: 4095040

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.

LABORATORIES

PASI-G Pace Analytical Services - Green Bay

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 0721-01-14 WEBSTER RESIDENCE

Pace Project No.: 4095040

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
4095040001	MW-1	EPA 8260	MSV/23906		
4095040002	TMW-2	EPA 8260	MSV/23906		
4095040003	TMW-3	EPA 8260	MSV/23906		
4095040004	TMW-4	EPA 8260	MSV/23906		

REPORT OF LABORATORY ANALYSIS

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(Please Print Clearly)

Company Name: Mach IV Eng
Branch/Location:
Project Contact: Chad M Fradette
Phone: 978 665 0019
Project Number: 0721-01-14
Project Name: Webster Residence/WDOT
Project State: WI - PECFA
Sampled By (Print): Chad M Fradette
Sampled By (Sign): [Signature]
PO #:
Regulatory Program:



UPPER MIDWEST REGION
MN: 612-607-1700 WI: 920-469-2436

4095040

CHAIN OF CUSTODY

Table with 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)*

Main Chain of Custody table with columns: Y/N, Pick Letter, Analyses Requested, DATE, TIME, MATRIX. Includes handwritten 'VOGS' and 'X' marks.

Quote #:
Mail To Contact:
Mail To Company:
Mail To Address:
Invoice To Contact:
Invoice To Company:
Invoice To Address:
Invoice To Phone:

Data Package Options (billable) EPA Level III/IV
MS/MSD On your sample (billable) NOT needed on your sample
Matrix Codes: A=Air, B=Biota, C=Charcoal, O=Oil, S=Soil, Sl=Sludge, W=Water, DW=Drinking Water, GW=Ground Water, SW=Surface Water, WW=Waste Water, WP=Wipe

Table with columns: PACE LAB #, CLIENT FIELD ID, DATE, TIME, MATRIX. Contains entries for MW-1, TMW-2, TMW-3, TMW-4.

CLIENT COMMENTS, LAB COMMENTS (Lab Use Only), Profile #. Includes handwritten comment '3-40m LD' and a downward arrow.

Rush Turnaround Time Requested - Prelims (Rush TAT subject to approval/surcharge) Date Needed:
Transmit Prelim Rush Results by (complete what you want):
Email #1:
Email #2:
Telephone:
Fax:
Samples on HOLD are subject to special pricing and release of liability

PACE Project No. 4095040
Receipt Temp = 20.1 °C
Sample Receipt pH OK / Adjusted
Cooler Custody Seal Present / Not Present Intact / Not Intact



Sample Condition Upon Receipt

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

Client Name: Mach IV

Project # WO#: 4095040



Courier: Fed Ex UPS Client Pace Other:
Tracking #:

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 N/A Type of Ice: Wet Blue Dry None Samples on ice, cooling process has begun
Cooler Temperature Uncorr: 20 /Corr: Biological Tissue is Frozen: yes no
Temp Blank Present: yes no

Person examining contents:
Date: 4/21/14
Initials: [Signature]

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

Comments:

Table with 15 rows and 3 columns. Row 12 contains handwritten notes: 'no collection date or times' and '4/21/14'. Row 13 contains checkboxes for HNO3, H2SO4, NaOH, and NaOH + ZnAct.

Client Notification/ Resolution: If checked, see attached form for additional comments
Person Contacted: Date/Time:
Comments/ Resolution:

Project Manager Review: [Signature] Date: 4-21-14