



January 30, 2017

Sharlene TeBeest
Wisconsin Department of Transportation
DOT-BTS-ESS
Attn: Sharlene TeBeest
P.O. Box 7965, Room 451
Madison, WI 53707-7965

KEEP THIS DOCUMENT WITH YOUR PROPERTY RECORDS

SUBJECT: Final Case Closure with Continuing Obligations
White Property – WI DOT, (ROW adjacent to N3671 STH 76, Ellington, WI)
DNR BRRTS Activity #: 03-45-555892
WIDOT Project ID 6517-07-74

Dear Ms. TeBeest:

The Department of Natural Resources (DNR) considers the White Property – WI DOT contamination case closed, with continuing obligations. No further investigation or remediation is required at this time. However, you, future property owners, and occupants of the property must comply with the continuing obligations as explained in the conditions of closure in this letter. Please read over this letter closely to ensure that you comply with all conditions and other on-going requirements. Provide this letter and any attachments listed at the end of this letter to anyone who purchases, rents or leases this property from you.

This final closure decision is based on the correspondence and data provided, and is issued under chs. NR 726 and 727, Wis. Adm. Code. The Northeast Region (NER) of the Wisconsin Department of Natural Resources (DNR) Closure Committee reviewed the request for closure on May 28, 2015. The DNR Closure Committee reviewed this environmental remediation case for compliance with state laws and standards to maintain consistency in the closure of these cases. A request for remaining actions needed was issued by the DNR on July 28, 2015, and documentation that the conditions in that letter were met was received on November 18, 2016.

The underground storage tanks (USTs) in the Right of Way (ROW) may have been associated with an old filling station or grocery store, but their origin is not known. The adjacent White Property is a private residence. The USTs were discovered during highway restoration work. Petroleum contaminated soil and groundwater was encountered during tank removal activities. The petroleum contaminated soil was excavated and disposed from the source area, in addition soil and groundwater samples were collected to define the extent of contamination. The conditions of closure and continuing obligations required were based on the property remaining WisDOT right-of-way.

Continuing Obligations

The continuing obligations for this site are summarized below. Further details on actions required are found in the section Closure Conditions.

- Groundwater contamination is present at or above ch. NR 140, Wis. Adm. Code enforcement standards.
- Residual soil contamination exists that must be properly managed should it be excavated or removed.
- Remaining contamination could result in vapor intrusion if future construction activities occur. Future construction includes expansion or partial removal of current buildings as well as construction of new buildings. Vapor control technologies will be required for occupied buildings, unless the property owner assesses the potential for vapor intrusion, and the DNR agrees that vapor control technologies are not needed. Utility vapor controls such as utility plugs should be considered if doing utility upgrades/new installation in the future.

The DNR fact sheet “Continuing Obligations for Environmental Protection”, RR-819, helps to explain a property owner’s responsibility for continuing obligations on their property. The fact sheet may be obtained at <http://dnr.wi.gov/files/PDF/pubs/rr/RR819.pdf>.

GIS Registry

This site will be included on the Bureau for Remediation and Redevelopment Tracking System (BRRTS on the Web) at <http://dnr.wi.gov/topic/Brownfields/clean.html>, to provide public notice of residual contamination and of any continuing obligations. The site can also be viewed on the Remediation and Redevelopment Sites Map (RRSM), a map view, under the Geographic Information System (GIS) Registry layer, at the same web address.

DNR approval prior to well construction or reconstruction is required for all sites shown on the GIS Registry, in accordance with s. NR 812.09 (4) (w), Wis. Adm. Code. This requirement applies to private drinking water wells and high capacity wells. To obtain approval, complete and submit Form 3300-254 to the DNR Drinking and Groundwater program’s regional water supply specialist. This form can be obtained on-line at <http://dnr.wi.gov/topic/wells/documents/3300254.pdf>.

All site information is also on file at the Northeast Regional DNR office, at 2984 Shawano Avenue, Green Bay, WI 54313-6727. This letter and information that was submitted with your closure request application, including any maps, can be found as a Portable Document Format (PDF) in BRRTS on the Web.

Closure Conditions

Compliance with the requirements of this letter is a responsibility to which you and any subsequent property owners must adhere. DNR staff will conduct periodic prearranged inspections to ensure that the conditions included in this letter are met. If these requirements are not followed, the DNR may take enforcement action under s. 292.11, Wis. Stats. to ensure compliance with the specified requirements, limitations or other conditions related to the property.

Please send written notifications in accordance with the following requirements to:

Department of Natural Resources
Attn: Remediation and Redevelopment Program Environmental Program Associate
2984 Shawano Avenue

Residual Groundwater Contamination (ch. NR 140, 812, Wis. Adm. Code)

Groundwater contamination greater than enforcement standards is present in the ROW adjacent to the property at N3671 STH 76, Ellington, WI, as shown on the attached map, (2013 Post-Remedial Groundwater Isoconcentration, Figure B.3.b (April 2015)). Groundwater contamination is co-mingled with groundwater contamination from WDNR BRRS Case #03-45-558641, White Property 2 USTS – WI DOT. If you intend to construct a new well, or reconstruct an existing well, you'll need prior DNR approval.

Residual Soil Contamination (ch. NR 718, chs. 500 to 536, Wis. Adm. Code or ch. 289, Wis. Stats.)

Soil contamination remains in the area of the UST in the ROW adjacent to the property at N3671 STH 76, Ellington, WI as indicated on the attached map, (Post-Remedial Soil Contamination, Figure B.2.b (January 2015)). If soil in the specific locations described above is excavated in the future, the property owner or right-of-way holder at the time of excavation must sample and analyze the excavated soil to determine if contamination remains. If sampling confirms that contamination is present, the property owner or right-of-way holder at the time of excavation will need to determine whether the material is considered solid or hazardous waste and ensure that any storage, treatment or disposal is in compliance with applicable standards and rules. Contaminated soil may be managed in accordance with ch. NR 718, Wis. Adm. Code, with prior DNR approval.

In addition, all current and future owners and occupants of the property and right-of-way holders need to be aware that excavation of the contaminated soil may pose an inhalation or other direct contact hazard and as a result special precautions may need to be taken to prevent a direct contact health threat to humans.

Vapor Mitigation or Evaluation (s. 292.12 (2), Wis. Stats., s. NR 726.15, s. NR 727.07, Wis. Adm. Code)

Vapor intrusion is the movement of vapors coming from volatile chemicals in the soil or groundwater, into buildings where people may breathe air contaminated by the vapors. Vapor mitigation systems are used to interrupt the pathway, thereby reducing or preventing vapors from moving into the building.

Future Concern: Petroleum Volatile Organic Compound (PVOCs) contaminated soil remains in the ROW at the base of and just east of the excavation site adjacent to N3671 STH 76 Hortonville, WI 54944, as shown on the attached map (Post-Remedial Soil Contamination map, Figure B.2.b (January 2015)), at levels that may be of concern for vapor intrusion in the future, depending on construction and occupancy of a building. At the time of closure STH 76 is covering the soil at this location. Building construction is unlikely in STH 76 ROW, in the future if the land use changes and a building constructed, the property owner must notify the DNR at least 45 days before the change. Vapor control technologies are required for construction of occupied buildings, unless the property owner assesses the vapor pathway and DNR agrees that vapor control technologies are not needed. Utility vapor controls such as utility plugs should be considered if doing utility upgrades/new installation in the future.

Other Closure Information

General Wastewater Permits for Construction Related Dewatering Activities

The DNR's Water Quality Program regulates point source discharges of contaminated water, including discharges to surface waters, storm sewers, pits, or to the ground surface. This includes discharges from construction related dewatering activities, including utility and building construction.

If you or any other person plan to conduct such activities, you or that person must contact that program, and if necessary, apply for the necessary discharge permit. Additional information regarding discharge permits is

available at <http://dnr.wi.gov/topic/wastewater/GeneralPermits.html>. If residual soil or groundwater contamination is likely to affect water collected in a pit/trench that requires dewatering, a general permit for Discharge of Contaminated Groundwater from Remedial Action Operations may be needed. If water collecting in a pit/trench that requires dewatering is expected to be free of pollutants other than suspended solids and oil and grease, a general permit for Pit/Trench Dewatering may be needed.

In Closing

Please be aware that the case may be reopened pursuant to s. NR 727.13, Wis. Adm. Code, for any of the following situations:

- if additional information regarding site conditions indicates that contamination on or from the site poses a threat to public health, safety, or welfare or to the environment,
- if the property owner does not comply with the conditions of closure, or
- a property owner fails to maintain or comply with a continuing obligation (imposed under this closure approval letter).

The DNR appreciates your efforts to restore the environment at this site. If you have any questions regarding this closure decision or anything outlined in this letter, please contact Roxanne N Chronert at (920) 662-5120, or at Roxanne.Chronert@wisconsin.gov.

Sincerely,

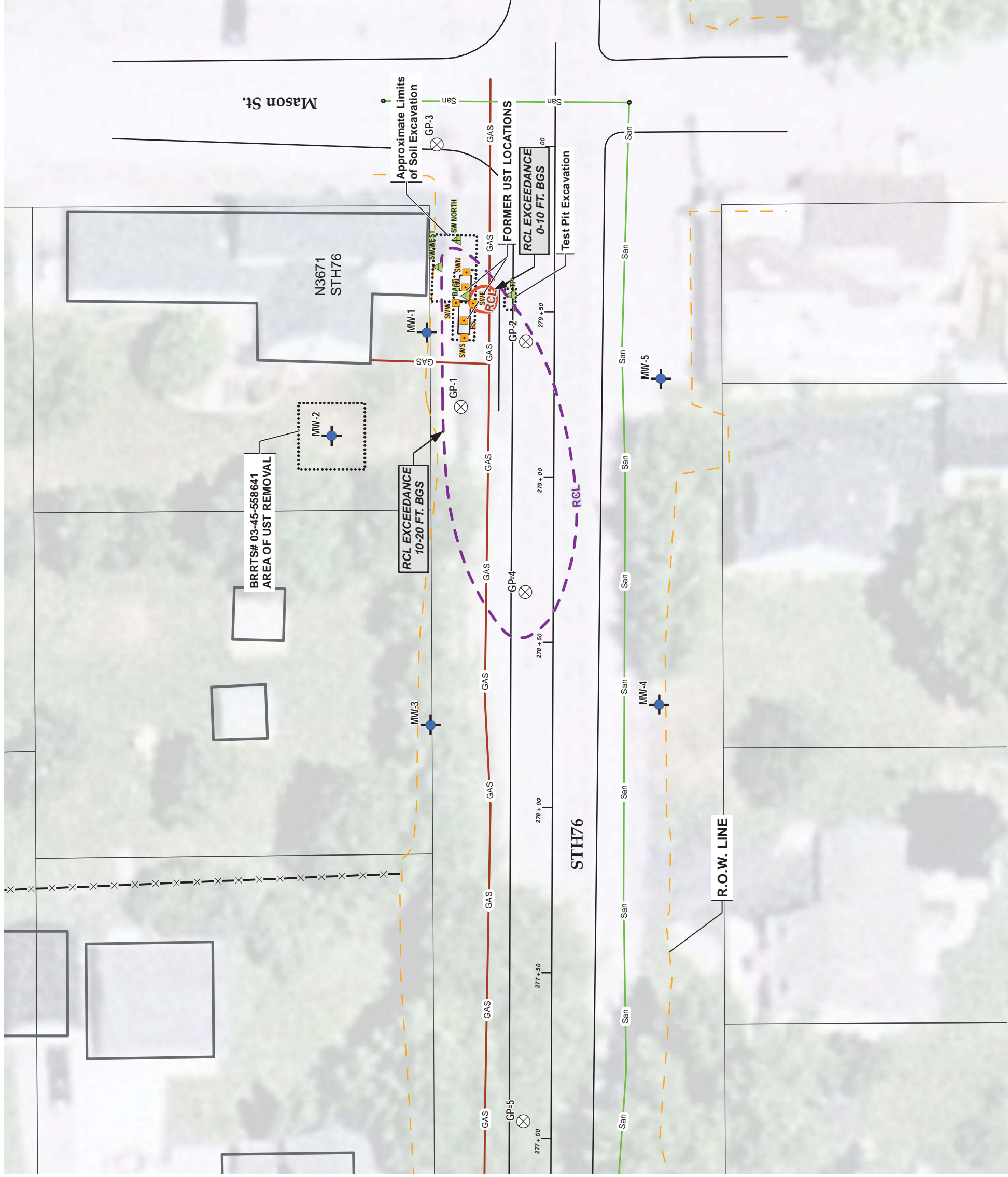


Roxanne N. Chronert
Team Supervisor, Northeast Region
Remediation and Redevelopment Program

Attachments:

- 2013 Post-Remedial Groundwater Isoconcentration, Figure B.3.b (April 2015)
- Post-Remedial Soil Contamination, Figure B.2.b (January 2015)

cc: Daniel Haak, TRC Solutions, email: DHaak@trcsolutions.com
Joe Schumacher (Town of Ellington), N3802 STH 76, Hortonville, WI 54944

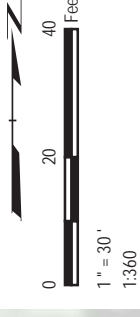


LEGEND

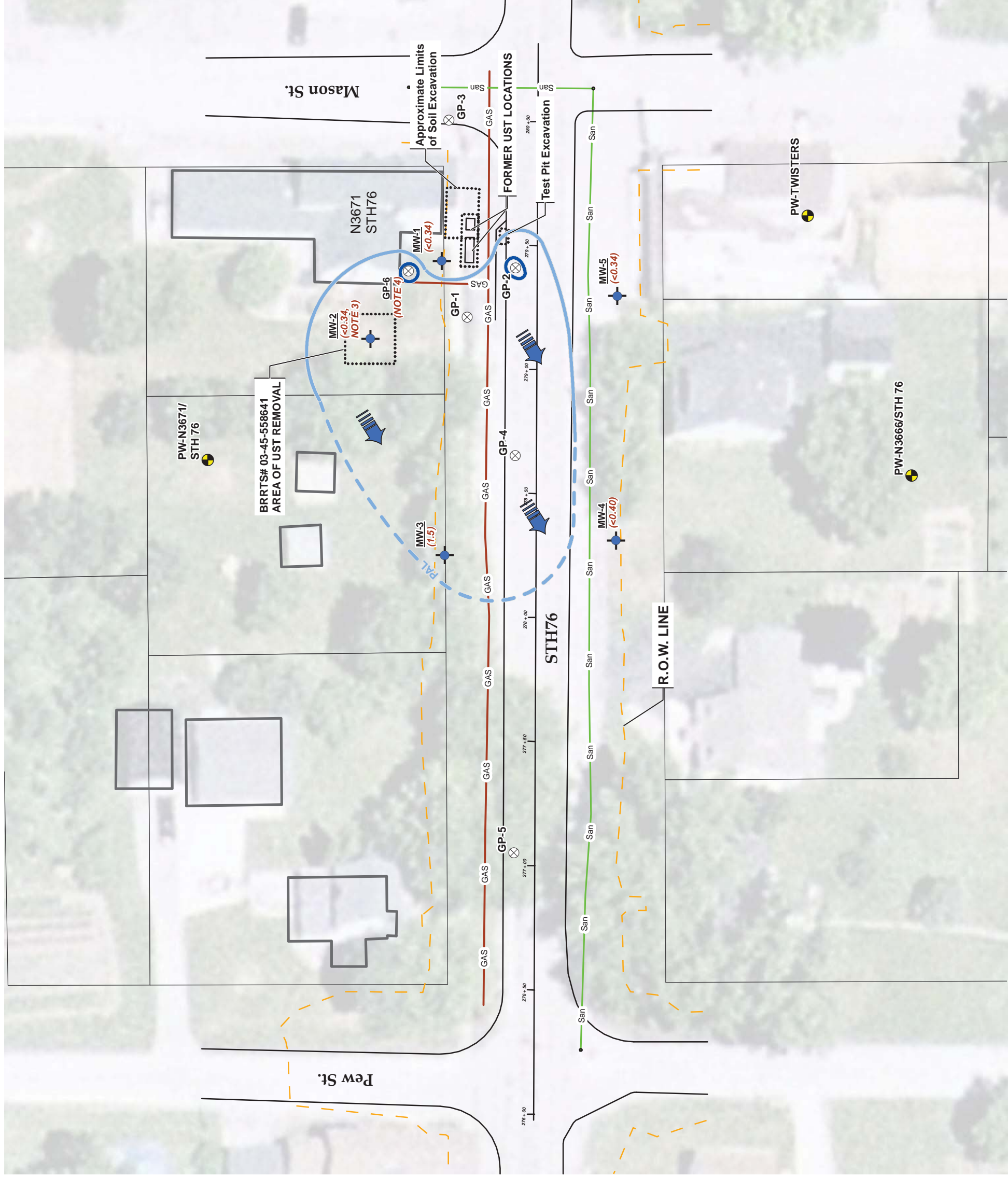
- TRC MONITORING WELL LOCATION (12/8/2010)
- TRC BORING/TEMPORARY MONITORING WELL LOCATION (8/20/2010)
- TRC SOIL SAMPLE LOCATION (PRE-REMEDIAL, 8/6/2010)
- TRC SOIL SAMPLE LOCATION (POST-REMEDIAL, 8/20/2010)
- NR 720 RCL EXCEEDANCE 0-10 FT. BGS (POST-REMEDIAL, DASHED WHERE INFERRED)
- NR 720 RCL EXCEEDANCE 10-20 FT. BGS (POST-REMEDIAL, DASHED WHERE INFERRED)
- APPROXIMATE PROPERTY BOUNDARIES

NOTES

1. R.O.W. AND STREET/STH DETAILS ARE TAKEN FROM THE EROSION CONTROL PLAN INCLUDED THE PLAN OF PROPOSED IMPROVEMENT WISDOT PROJECT ID# 6517-07-74, STH 76.
 2. PROPERTY BOUNDARIES ACQUIRED FROM OUTAGAMIE COUNTY INTERACTIVE GIS WEBSITE, LOCATIONS ARE APPROXIMATE.
 3. REMEDIAL SOIL EXCAVATION AS LIMITED TO THE EAST BY THE GAS UTILITY CORRIDOR.
- BGS = BELOW GROUND SURFACE



PROJECT: WISDOT - STH 76 STEPHENSVILLE		PROJ. NO. 005134.0000.0000
ID# 6517-07-74		FILE NO. 63430219.mxd
BRRTS# 03-45-555892		
POST-REMEDIAL SOIL CONTAMINATION		
SHEET TITLE:		
DRAWN BY: RHODE B	SCALE: 1:360	
CHECKED BY: VATER K	DATE PRINTED:	
APPROVED BY: O'CONNELL T		FIGURE B-2.b
DATE: JANUARY 2015		
708 Heartland Trail, Suite 3000 Madison, WI 53717 Phone: 608.826.3600 www.trcsolutions.com		



LEGEND

- TRC MONITORING WELL LOCATION (12/8/2010)
- PRIVATE WELL LOCATION
- TRC BORING/TEMPORARY MONITORING WELL LOCATION (8/20/2010)
- NR 140 ES EXCEEDANCE (DASHED WHERE INFERRED, 12/6/2013 & 3/20/2015)
- NR 140 PAL EXCEEDANCE (DASHED WHERE INFERRED, 12/6/2013 & 3/20/2015)
- GROUNDWATER FLOW DIRECTION
- APPROXIMATE PROPERTY BOUNDARIES
- BENZENE CONCENTRATION ($\mu\text{g/L}$) (12/6/2013, FOR MW-1, MW-2, MW-3, & MW-5 3/20/2015 FOR MW-4)

NOTES

1. R.O.W. AND STREET/STH DETAILS ARE TAKEN FROM THE EROSION CONTROL PLAN INCLUDED THE PLAN OF PROPOSED IMPROVEMENT WisDOT PROJECT ID# 6517-07-74, STH 76.
2. PROPERTY BOUNDARIES ACQUIRED FROM OUTAGAMIE COUNTY INTERACTIVE GIS WEBSITE, LOCATIONS ARE APPROXIMATE.
3. MW-2 GROUNDWATER CONCENTRATION OF NAPHTHALENE WAS 47.3 $\mu\text{g/L}$ AND TRIMETHYLBENZENES WAS 141 $\mu\text{g/L}$.
4. BORING G-6 WAS INSTALLED AND GROUNDWATER WAS SAMPLED BY METCO ON AUGUST 5, 2013, ASSOCIATED WITH THE INVESTIGATION OF BRRTS# 03-45-558641.
5. GROUNDWATER CONTAMINATION IS CO-MINGLED WITH IMPACTS FROM BRRTS# 03-45-558641 SIDE GRADIENT AND DOWN GRADIENT OF THE FORMER UST LOCATIONS.



PROJECT: WISDOT - STH 76 STEPHENSVILLE ID# 6517-07-74 BRRTS# 03-45-558641		PROJ. NO. 005134.0000.0000
SHEET TITLE: 2013 POST-REMEDIAL GROUNDWATER ISOCONCENTRATION		FILE NO. 63430221.mxd
DRAWN BY: RHODE B	SCALE: 1:480	
CHECKED BY: VATER K	DATE PRINTED: APRIL 2015	
APPROVED BY: O'CONNELL T		FIGURE B.3.b



708 Heartland Trail, Suite 3000
 Madison, WI 53717
 Phone: 608-826-3600
 www.trcsolutions.com



July 28, 2015

Sharlene TeBeest
Wisconsin Department of Transportation
DOT-BTS-ESS
Attn: Sharlene TeBeest
P.O. Box 7965, Room 451
Madison, WI 53707-7965

Subject: Conditional Closure Decision,
With Requirements to Achieve Final Closure
White Property – WI DOT, Stephenville, Wisconsin
DNR BRRTS Activity # 03-45-555892
WIDOT Project ID 6517-07-74

Dear Ms. TeBeest:

On June 3, 2015, the Northeast Region of the Department of Natural Resources (DNR) reviewed your request for closure of the case described above. The Northeast Region Closure Committee reviews environmental remediation cases for compliance with state rules and statutes to maintain consistency in the closure of these cases. After careful review of the closure request, the Closure Committee has determined that the petroleum contamination from the former USTs located within the DOT Right-of-Way appears to have been investigated and remediated to the extent practicable under site conditions. Your case has been remediated to DNR standards in accordance with ch. NR 726, Wis. Adm. Code and will be closed if the following conditions are satisfied.

CONDITIONS

Monitoring Well Abandonment

The monitoring wells MW-1, MW-2, MW-3, MW-4 and MW-5 at the site must be properly abandoned in accordance with ch. NR 141, Wis. Adm. Code. Documentation of well abandonment must be submitted to Elizabeth A. Victor on Form 3300-005, found at <http://dnr.wi.gov/topic/groundwater/forms.html>.

Purge Water, Waste and Soil Pile Removal

Any remaining purge water, waste and/or soil piles generated as part of site investigation or remediation activities must be removed from the site and disposed of or treated in accordance with the applicable rules. Once that work is completed, please send appropriate documentation regarding the treatment or disposal of the remaining purge water, waste and/or soil piles.

Documentation: When the above conditions have been satisfied, please submit the appropriate documentation (for example, well abandonment forms, disposal receipts, copies of correspondence, etc.) to verify that applicable conditions have been met, and your case will be closed. Your site will be listed on the DNR Remediation and Redevelopment Program's GIS Registry. Information that was submitted with your closure request application will be included on the Bureau for Remediation and Redevelopment Tracking System (BRRTS on the Web). The site may be viewed on the Remediation and Redevelopment Sites Map (RRSM), on the GIS Registry layer. To review the site on BRRTS on the Web, or to view the GIS Registry web page, see <http://dnr.wi.gov/topic/Brownfields/rrsm.html>.

CONTINUING OBLIGATIONS

As part of the approval of the closure of this case, you will be responsible for maintaining the following continuing obligations.

- Groundwater contamination is present at or above ch. NR 140, Wis. Adm. Code enforcement standards.
- Residual soil contamination exists that must be properly
- Remaining soil contamination could result in vapor intrusion if future construction of buildings occurs. Vapor control technologies will be required for occupied buildings, unless the property owner assesses the potential for vapor intrusion, and the DNR agrees that vapor control technologies are not needed.

IN CLOSING

Please be aware that the case may be reopened pursuant to s. NR 727.13, Wis. Adm. Code, for any of the following situations:

- if additional information regarding site conditions indicates that contamination on or from the site poses a threat to public health, safety, or welfare or to the environment,
- if the property owner does not comply with the conditions of closure, or
- a property owner fails to maintain or comply with a continuing obligation (imposed under this closure approval letter).

We appreciate your efforts to restore the environment at this site. If you have any questions regarding this letter, please contact me at (920) 303-5424, or by email at elizabeth.victor@wisconsin.gov.

Sincerely,



Elizabeth A. Victor, P.G.
Hydrogeologist
Remediation & Redevelopment Program

SUBMIT AS UNBOUND PACKAGE IN THE ORDER SHOWN

Notice: Pursuant to ch. 292, Wis. Stats., and chs. NR 726 and 746, Wis. Adm. Code, this form is required to be completed for case closure requests. The closure of a case means that the Department of Natural Resources (DNR) has determined that no further response is required at that time based on the information that has been submitted to the DNR. All sections of this form must be completed unless otherwise directed by the Department. Incomplete forms will be considered "administratively incomplete" and processing of the request will stop until required information is provided. Any section of the form not relevant to the case closure request must be fully filled out or explained on a separate page and attached to the relevant section of this form. DNR will consider your request administratively complete when the form and all sections are completed, all attachments are included, and the applicable fees required under ch. NR 749, Wis. Adm. Code, are included, and sent to the proper destinations. Personal information collected will be used for administrative purposes and may be provided to requesters to the extent required by Wisconsin's Open Records Law (ss. 19.31 - 19.39, Wis. Stats.).

Site Information

BRRTS No. 03-45-555892		Parcel ID No.	
BRRTS Activity (Site) Name WHITE PROPERTY - WI DOT		WTM Coordinates	
		X 632764	Y 434280
Street Address N3671 STH 76		City ELLINGTON	State ZIP Code WI 54944
Responsible Party (RP) Name SHARLENE TEBEEST			
Company Name WISCONSIN DEPARTMENT OF TRANSPORTATION			
Street Address PO BOX 7965		City MADISON	State ZIP Code WI 53707
Phone Number (608) 266-1476		Email SHARLENE.TEBEEST@DOT.WI.GOV	

Check here if the RP is the owner of the source property.

Environmental Consultant Name KATHERINE VATER			
Consulting Firm TRC ENVIRONMENTAL CORPORATION			
Street Address 708 HEARTLAND TRAIL, SUITE 3000		City MADISON	State ZIP Code WI 53717
Phone Number (608) 826-3663		Email KVATER@TRCSOLUTIONS.COM	
Acres Ready For Use 0.03		Voluntary Party Liability Exemption Site? <input type="radio"/> Yes <input checked="" type="radio"/> No	

Fees and Mailing of Closure Request

If any section is not relevant to the case closure request, you must fully explain the reasons why and attach that explanation to the relevant section of the form. All information submitted shall be legible. Providing illegible information may result in a submittal being considered incomplete until corrected.

1. **Send a copy of page one** of this form and the applicable ch. NR 749, Wis. Adm. Code, fee(s) to the DNR regional Environmental Program Associate at <http://dnr.wi.gov/topic/Brownfields/Contact.html>. Check all fees that apply:

- \$1,050 Closure Fee
- \$300 Database Fee for Soil
- \$350 Database Fee for Groundwater or Other Condition (MW Not Abandoned)

Total Amount of Payment \$ \$1,700.00

2. **Send one paper copy and one e-copy on compact disk of the entire closure package** to the Regional Project Manager assigned to your site. Submit as unbound, separate documents in the order and with the titles prescribed by this form. For electronic document submittal requirements, see <http://dnr.wi.gov/files/PDF/pubs/rr/RR690.pdf>.

Site Summary

If any section is not relevant to the case closure request, you must fully explain the reasons why and attach that explanation to the relevant section of the form. All information submitted shall be legible. Providing illegible information may result in a submittal being considered incomplete until corrected.

1. General Site Information and Site History

- A. **Site Location:** Describe the physical location of the site, both generally and specific to its immediate surroundings.
The site is located underneath the STH 76 right-of-way (ROW), adjacent to N3671 STH 76 (a.k.a. the "White Property"), in Stephenville (Ellington), Wisconsin. "Site" refers specifically to an area of the STH 76 ROW where there were two USTs and adjacent soil contamination, in an approximate area of 15-feet by 30-feet. Site maps are attached in Attachments B.1.a, B.1.b, and B.1.c.
- B. **Prior and current site usage:** Specifically describe the current and historic occupancy and types of use.
The site is STH 76 ROW, and is covered by a concrete sidewalk. The adjacent White Property is a private residence. The STH 76 ROW is owned by the WisDOT. The USTs may have been associated with an old filling station or grocery store, but their origin is not known.
- C. Describe how and when site contamination was discovered.
The USTs were discovered by a WisDOT contractor on August 2, 2010, during highway restoration work when the contractor was grading for sidewalk replacement. The USTs were removed on August 6, 2010. At the time of the UST removal (tank abandonment), significant petroleum contamination was noted in the soil adjacent to the USTs. Approximately 20 tons of petroleum-contaminated soil was over-excavated from the location and treated off-site. Laboratory analyses of the in-place soils adjacent to the over-excavation confirmed that residual petroleum contamination remained in the soil. On August 20, 2010, contractors returned to the Site to excavate and treat an additional 85 tons of petroleum-contaminated soil. Field screening and laboratory testing again confirmed that residual petroleum contamination remained in the soil beneath and adjacent to the former USTs.
- D. Describe the type(s) and source(s) or suspected source(s) of contamination.
The source of the contamination is unknown petroleum products (suspected diesel fuel or gasoline) from the former USTs.
- E. Other relevant site description information (or enter Not Applicable).
There is an adjacent Closed LUST BRRTS case (03-45-558641) on the White Property (N3671 STH 76), approximately 50 feet south-west and side gradient of this BRRTS case. There was groundwater contamination (PVOCs) identified at the adjacent BRRTS case.
- F. List BRRTS activity site name and number for all other BRRTS activities at this property, including closed cases.
There are no other BRRTS activities at this property.
- G. List BRRTS activity/site name(s) and number(s) for all properties immediately adjacent to this site, and those impacted by contamination from this site.
A closed LUST BRRTS case (BRRTS 03-45-558641), is located approximately 50 feet south-west (and side gradient) of the subject case, BRRTS 03-45-555892. There are no other adjacent BRRTS cases.
- H. **Current zoning** (e.g. industrial, commercial, residential) for the site and for neighboring properties, and how verified (Provide documentation in Attachment G).
The site is STH ROW. The White Property is zoned "local commercial", as are each of the properties at the intersection of STH 76 and Mason St (the cross-street of the Site), and the downgradient properties to the south along STH 76. One property south-east and downgradient of the Site is zoned as "two family residential." The zoning information was identified from the Outagamie County Interactive GIS Website, and is included in Attachment G.3.

2. General Site Conditions

- A. Soil/Geology
 - i. Describe soil type(s) and relevant physical properties, thickness of soil column across the site, vertical and lateral variations in soil types.
During site investigation activities, sandy clay with gravel were encountered in the area of the UST from ground surface to approximately 14-16 feet below ground surface (bgs). Sandy silt, silty sand, and silt were encountered to 20 feet bgs. Borings were terminated at a maximum of 20 feet bgs during the investigation.
 - ii. Describe the composition, location and lateral extent, and depth of fill or waste deposits on the site.
None encountered.

Save...

- iii. Depth to bedrock, bedrock type, and whether or not it was encountered during the investigation.
Bedrock was not encountered. Regional bedrock is the Upper Cambrian Sandstone at more than 100 feet bgs.
- iv. Describe the nature and locations of current surface cover(s) across the site (e.g. natural vegetation, landscaped areas, gravel, hard surfaces, and buildings).
The site is in the STH 76 ROW, which consists of concrete sidewalk and grassed lawn area over soil/aggregate. The STH 76 road surface is asphalt.

B. Groundwater

- i. **Discuss depth to groundwater and piezometric elevations.** Describe and explain depth variations, and whether free product affects measurement or water table elevation. Describe the stratigraphic unit(s) where water table was found or which were measured for piezometric levels.
Groundwater generally occurs between 5 and 16 feet bgs in the site wells. Several site wells are screened in a confined aquifer (sand beneath a clay layer), and the measured depths to groundwater reflect the artesian condition of the aquifer. There are no piezometers on-site. There was no free product observed during the tank abandonment or subsequent monitoring activities.
- ii. Discuss groundwater flow direction(s), shallow and deep. Describe and explain flow variations, including fracture flow if present.
The groundwater generally flows to the south/southeast. Figures depicting the groundwater flow are attached in Attachment B.3.c.
- iii. Discuss groundwater flow characteristics: hydraulic conductivity, flow rate and permeability, or state why this information was not obtained.
Hydraulic conductivity, flow rate, and permeability were not calculated since there were no active groundwater remediation activities performed, and no downgradient receptors were identified.
- iv. Identify and describe locations/distance of potable and/or municipal Wells within 1200 feet of the site.
A search of the WDNR Drinking Water System database confirmed there are at least 8 drinking water wells within 1,200 feet of the Site. The search also generated a list of approximately 15 additional private wells that could potentially be within 1,200 feet of the site, but were unknown given lack of address information. Based on information from the database, the private wells are screened between 63 and 340 feet bgs.

On multiple occasions between 2010 and 2013, the groundwater from the private well adjacent the Site (N3671 STH 76) and from the private well at the Twister's Bar property (N3670 STH 76) was sampled, and no impacts related to the petroleum contamination from the Site were observed.

3. Site Investigation Summary

A. General

- i. Provide a brief summary of the site investigation history. Reference previous submittals by name and date. Describe site investigation activities undertaken since the last submittal for this project and attach the appropriate documentation in Attachment C, if not previously provided.

The USTs were discovered by a WisDOT contractor on August 2, 2010, during highway restoration (grading for sidewalk construction) work. The USTs and adjacent soils were removed on August 6, 2010, and additional soils were removed on August 20, 2010. In addition, on August 20, 2010, a Geoprobe soil investigation was completed. The site investigation is documented in the Underground Storage Tank (UST) Abandonment and Site Investigation and Remediation Report by RMT, Inc. dated October 21, 2010.

On December 8, 2010, five groundwater monitoring wells were installed to sample and monitor the shallow unconfined aquifer at the Site. Groundwater samples collected in August 2010 during the Geoprobe investigation, and in December 2010 from the permanent monitoring wells, identified groundwater concentrations of some petroleum-volatile organic compounds (PVOCs) in exceedance of NR 140 Enforcement Standards. The groundwater monitoring well construction logs are included in Attachment C.1.

- ii. Identify whether contamination extends beyond the source property boundary, describe the off-site media (e.g., soil, groundwater, etc.) impacted, and the vertical and horizontal extent of off-site impacts.
When the USTs were removed in 2010, contaminated soils remained below the location of the USTs and within the utility corridor (gas pipeline ROW) adjacent to the former USTs. A test pit was excavated to the east of the gas pipeline, and no soil contamination was observed. Residual soil contamination does not extend past the STH 76 ROW.

In 2010, groundwater impacts in exceedance of the NR 140 ES for naphthalene and the NR 140 PAL for ethylbenzene and trimethylbenzenes were identified off-site on the N3671 STH 76 property. The location of the sample (MW-2)

coincides with the location of the closed LUST Site (BRRTS #03-45-558641). MW-2 is located side-gradient of the White Property - WI DOT UST location. The extent of the groundwater impacts (pre-remedial and post-remedial) is depicted in Attachments B.3.a and B.3.b.

- iii. Identify any structural impediments to the completion of site investigation and/or remediation and whether these impediments are on the source property or off the source property. Identify the type and location of any structural impediment (e.g., structure) that also serves as the performance standard barrier for protection of the direct contact or the groundwater pathway.

There is a utility corridor (with natural gas pipeline) to the east of the Site within the STH 76 ROW. The remedial excavation was limited by the utility corridor, but contamination was not observed in a test pit excavation on the east side of the natural gas pipeline. The Geoprobe investigation also was used to define the extents of contamination beyond the utility corridor.

After completion of the roadway, new asphalt pavement, concrete sidewalk, and aggregate fill with grass, were installed at the Site in the area of the excavation. These surfaces serve as the performance standard barrier for protection of direct contact of the remaining soil contamination, including over the location of the gas pipeline.

B. Soil

- i. Describe degree and extent of **soil contamination** at and from this site. Relate this to known or suspected sources and known or potential receptors/migration pathways.

A small area (approximately 10 feet by 10 feet) of residual soil contamination remains on-site in the upper 4 feet of the soil column. The remaining shallow soil contamination is adjacent to the location of the former USTs, and next to the natural gas pipeline. The remaining shallow soil contamination is limited in area, and the extents were defined in the investigation. The remaining shallow soil contamination is covered with a pavement and/or aggregate/grass barrier.

There is residual soil contamination at depth (10 to 20 feet bgs) in an area approximately 120 feet by 40 feet, underneath and downgradient of the location of the former USTs. Residual soil contamination was indicated in the field by staining, odor, and elevated PID readings (>1,000 ppm) in the field logs. Residual soil contamination at depth was typically identified in the clay (with sand and gravel) confining layer. Contamination likely spread to this soil layer from the UST source area via contaminated groundwater in the sand aquifer underlying the clay. The extents of the deep residual soil contamination were defined in the investigation. The remaining deep soil contamination is covered by uncontaminated soil, and a pavement and/or aggregate/grass barrier. Residual soil contamination may be encountered during future excavation/utility work underneath STH 76.

Groundwater is a migration pathway, but no downgradient receptors have been identified, and downgradient groundwater contamination is co-mingled with groundwater contamination from an adjacent BRRTS case (#03-45-558641).

- ii. Describe the level and types of **soil contaminants** found in the upper four feet of the soil column.
The remaining shallow soil contamination in exceedance of NR 720 RCLs (dated 2010), are PVOCs (trimethylbenzenes, benzene, ethylbenzene, naphthalene, toluene, and xylenes). The remaining shallow soil contamination in exceedance of NR 746 Standards (dated 2010), are PVOCs (trimethylbenzenes, ethylbenzene, naphthalene, and xylenes). The sample SWE was collected at 3 feet bgs, adjacent to the location of the former USTs.
- iii. Identify the ch. NR 720, Wis. Adm. Code, method used to establish the soil cleanup standards for this site. This includes a soil performance standard established in accordance with s. NR 720.08, a Residual Contaminant Level (RCL) established in accordance with s. NR 720.10 that is protective of groundwater quality, or an RCL established in accordance with s. NR 720.12 that is protective of human health from direct contact with contaminated soil. Identify the land use classification that was used to establish cleanup standards. Provide a copy of the supporting calculations/information in Attachment C.
The site investigation was completed in 2010 before the current soil performance standards were established. The NR 720 generic residual contaminant levels, and NR 746 standards, were used to establish the soil cleanup standards for this Site. The summary tables were submitted in the 2010 UST Abandonment and Site Investigation and Remediation Report, and the RCLs used are included in Attachments A.2, A.3, and A.4.

C. Groundwater

- i. Describe degree and extent of groundwater contamination at or from this site. Relate this to known or suspected sources and known or potential receptors/migration pathways. Specifically address any potential or existing impacts to water supply wells or interception with building foundation drain systems.

In 2010, a NR 140 ES exceedance for benzene was observed downgradient near the former USTs at geoprobe location GP-2. NR 140 ES exceedances for naphthalene, ethylbenzene, and trimethylbenzenes were identified at MW-2, which coincides with the location of BRRTS #03-45-558641, and is side-gradient of the UST excavation for this case. The investigation of BRRTS case #03-45-558641 by METCO on August 5, 2013, identified a NR 140 ES exceedance at

their location G-6, located between MW-1 and MW-2.

The extent of groundwater contamination is delineated downgradient by MW-3 and MW-4. Downgradient groundwater is co-mingled with the groundwater impacts from the adjacent BRRTS case (#03-45-558641).

No downgradient receptors have been identified. There are water supply wells within 1,200 feet of the Site, but review of the available information indicates the wells are screened between 63 and 340 feet bgs. Water from the private wells at N3671 STH 76 (White) and N3670 STH 76 (Twister's Bar) have been sampled, and no impacts related to the petroleum contamination from the Site were observed.

- ii. Describe the presence of free product at the site, including the thickness, depth, and locations.
No free product was encountered during the UST abandonment or monitoring activities.

D. Vapor

- i. Describe how the vapor migration pathway was assessed, including locations where vapor or indoor air samples were collected. If the vapor pathway was not assessed, explain reasons why.
Vapor migration is not a risk pathway for the site as there is no soil or groundwater contamination intersecting adjacent buildings.
- ii. Identify the applicable DNR action levels and the land use classification used to establish them. Describe where the DNR action levels were reached or exceeded (e.g., sub slab, indoor air or both).
Not applicable.

E. Surface Water and Sediment

- i. Identify whether surface water and/or sediment was assessed and describe the impacts found. If this pathway was not assessed, explain why.
There is no adjacent surface water or sediment.
- ii. Identify any surface water and/or sediment action levels used to assess the impacts for this pathway and how these were derived. Describe where the DNR action levels were reached or exceeded.
There is no adjacent surface water or sediment.

4. Remedial Actions Implemented and Residual Levels at Closure

- A. General: Provide a brief summary of the remedial action history. List previous remedial action report submittals by name and date. Identify remedial actions undertaken since the last submittal for this project and provide the appropriate documentation in Attachment C.

The USTs were removed in 2010, and approximately 105 tons of contaminated soil was removed from the area of the USTs. The soil was hauled for treatment/disposal at Hickory Meadows Landfill in Hilbert, WI. The UST removal was documented in the the UST Abandonment and Site Investigation and Remediation Report by RMT, Inc. dated October 21, 2010. No other remedial actions have occurred.

- B. Describe any immediate or interim actions taken at the site under ch NR 708, Wis. Adm. Code.
None.

- C. Describe the *active* remedial actions taken at the site, including: type of remedial system(s) used for each media impacted; the size and location of any excavation or in-situ treatment; the effectiveness of the systems to address the contaminated media and substances; operational history of the systems; and summarize the performance of the active remedial actions. Provide any system performance documentation in Attachment A.7.

The USTs were removed, and a second soil excavation was completed in the area of the USTs in 2010. The total adjacent excavation areas were 8 feet by 15 feet (to 8 feet bgs), and 15 feet by 20 feet (to 10 feet bgs). Approximately 105 tons of contaminated soil were removed from the excavations and disposed off-site.

No other active remedial actions were conducted.

- D. Provide a discussion of the nature, degree and extent of residual contamination that will remain at the site or on off-site affected properties after case closure.

A small area (approximately 10 feet by 10 feet) of residual soil contamination remains on-site in the upper 4 feet of the soil column. The remaining shallow soil contamination is adjacent to the location of the former USTs, and next to the gas pipeline. The remaining shallow soil contamination is limited in area, and the extents were defined in the investigation. The remaining shallow soil contamination is covered with a pavement and/or aggregate/grass barrier.

There is residual soil contamination at depth (10 to 20 feet bgs) in an area approximately 120 feet by 40 feet, underneath and



downgradient of the location of the former USTs. Residual soil contamination was indicated in the field by staining, odor, and elevated PID readings (>1,000 ppm) in the field logs. Residual soil contamination at depth was typically identified in the clay (with sand and gravel) confining layer. The extents of the deep residual soil contamination were defined in the investigation. The remaining deep soil contamination is covered by uncontaminated soil, and a pavement and/or aggregate/grass barrier. Residual soil contamination may be encountered during future excavation/utility work underneath STH 76.

There is no off-site residual soil contamination.

Downgradient groundwater impacts are co-mingled with petroleum impacts from an adjacent, side-gradient closed BRRTS case. In December 2013, the groundwater impacts were limited to NR 140 PAL exceedances at the side-gradient source area (MW-2), and at one downgradient well (MW-3). During the investigation of the site a NR 140 ES exceedance was identified at GP-2 (2010), and during METCO's investigation of the adjacent BRRTS# 03-45-558641, a NR 140 ES exceedance was identified at G-6 (2013). The off-site groundwater contamination is on N3671 STH 76, and is associated with that closed BRRTS case, and not with the on-site source.

- E. Describe the remaining soil contamination within four feet of ground surface (direct contact zone) that attains or exceeds Residual Contaminant Levels established under s. NR 720. 12, the ch. NR720, Wis. Adm. Code, for protection of human health from direct contact.
- The remaining shallow soil contamination in exceedance of NR 720 RCLs (dated 2010), are PVOCs (trimethylbenzenes, benzene, ethylbenzene, naphthalene, toluene, and xylenes). The sample SWE was collected at 3 feet bgs, adjacent to the location of the former USTs. The remaining soil contamination in exceedance of NR 746 standards for the groundwater pathway (dated 2010), are PVOCs (trimethylbenzenes, benzene, ethylbenzene, naphthalene, toluene, and xylenes). The remaining soil contamination samples were collected from 3 to 18 feet bgs.
- F. Describe the remaining soil contamination in the vadose zone that attains or exceeds the soil standard(s) for the groundwater pathway.
- The remaining shallow soil contamination in exceedance of NR 720 RCLs (dated 2010), are PVOCs (trimethylbenzenes, benzene, ethylbenzene, naphthalene, toluene, and xylenes). The sample SWE was collected at 3 feet bgs, adjacent to the location of the former USTs. The remaining soil contamination in exceedance of NR 746 standards for the groundwater pathway (dated 2010), are PVOCs (trimethylbenzenes, benzene, ethylbenzene, naphthalene, toluene, and xylenes). The remaining soil contamination samples were collected from 3 to 18 feet bgs.
- G. Describe how the residual contamination will be addressed, including but not limited to details concerning: covers, engineering controls or other barrier features; use of natural attenuation of groundwater; and vapor mitigation systems or measures.
- The remaining shallow soil contamination is covered with a pavement and/or aggregate/grass barrier. The remaining deep soil contamination is covered with uncontaminated soils and/or pavement and/or aggregate/grass barrier. The residual groundwater contamination has been decreasing in concentration since the UST excavation/source area removal, and will be addressed through natural attenuation.
- H. If using natural attenuation as a groundwater remedy, describe how the data collected supports the conclusion that natural attenuation is effective in reducing contaminant mass and concentration, (e.g. stable or receding groundwater plume).
- One round of groundwater samples were collected from on-site wells during the 2010 site investigation, and monitoring was continued by TRC on a semi-annual basis until December 2013. One additional sample was collected at MW-4 in March 2015. Based on monitoring data, the levels of detection for PVOCs have been decreasing since monitoring began following the source area removal. The concentrations of groundwater impacts have been decreasing over the three years of monitoring, indicating an effective source area removal and on-going natural attenuation of the residual groundwater impacts.
- I. Identify how all exposure pathways were removed and/or adequately addressed by immediate and/or remedial action(s) described above in paragraphs, B, C, D, E and F.
- The USTs and majority of the contaminated soil were excavated and disposed off-site. Limited residual soil contamination remains within 4-feet of the ground surface, but is covered by a barrier. No other exposure pathways to the residual contamination were identified.
- J. Identify any system hardware anticipated to be left in place after site closure, and explain the reasons why it will remain.
- Not applicable, there was no system hardware.
- K. Identify the need for a ch. NR 140, Wis. Adm. Code, groundwater Preventive Action Limit (PAL) or Enforcement Standard (ES) exemption, and identify the affected monitoring points and applicable substances.
- Based on the decreasing concentrations of groundwater impacts over the course of monitoring at the Site, this Case Closure request is being submitted. Natural attenuation is the selected remedy for the remaining groundwater impacts. Groundwater

impacts are also co-mingled with the adjacent source area (BRRTS #03-45-558641).

- L. If a DNR action level for vapor intrusion was exceeded (for indoor air, sub slab, or both) describe where it was exceeded and how the pathway was addressed.
Vapor migration is not a risk pathway.
- M. Describe the surface water and/or sediment contaminant concentrations and areas after remediation. If a DNR action level was exceeded, describe where it was exceeded and how the pathway was addressed.
There is no adjacent surface water or sediment.

5. Continuing Obligations: Situations where a maintenance plan(s) and inclusion on DNR's GIS Registry are required.

Directions: Check all that apply to this case closure request:

	This scenario Applies to this Case Closure		Case Closure Scenario: Maintenance Plans and GIS Registry	Maintenance Plan (s) Required in Attachment D	GIS Registry Listing
	A. On-Site	B. Off-Site			
i.	<input type="checkbox"/>	<input type="checkbox"/>	Engineering Control/Barrier for Direct Contact	✓	✓
ii.	<input type="checkbox"/>	<input type="checkbox"/>	Engineering Control/Barrier for Groundwater Infiltration	✓	✓
iii.	<input type="checkbox"/>	<input type="checkbox"/>	Vapor Mitigation - post closure passive system	✓	✓
iv.	<input type="checkbox"/>	<input type="checkbox"/>	Vapor Mitigation - post closure active system	✓	✓
v.	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	None of the above scenarios apply to this case closure	NA	NA

6. Continuing Obligations: Situations where inclusion on DNR's GIS Registry is required.

Directions: Check all that apply to this case closure request:

	This scenario Applies to this Case Closure		Case Closure Scenario: GIS Registry Only	GIS Registry Listing
	A. On-Site	B. Off-Site		
i.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Residual soil contamination exceeds ch. NR 720 generic or site-specific RCLs	✓
ii.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Sites with groundwater contamination equal to or greater than the ch. NR 140, enforcement standards (ES)	✓
iii.	<input type="checkbox"/>	<input type="checkbox"/>	Monitoring wells: lost, transferred or remaining in use	✓
iv.	<input type="checkbox"/>	<input type="checkbox"/>	Structural Impediment (not as a performance standard)	✓
v.	<input type="checkbox"/>	<input type="checkbox"/>	Residual soil contamination remaining at ch. NR 720 Industrial Use levels	✓
vi.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Vapor intrusion may be future, post-closure issue if building use or land use changes	✓
vii.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	None of the above scenarios apply to this case closure	NA

7. Underground Storage Tanks

- A. Were any tanks, piping or other associated tank system components removed as part of the investigation or remedial action? Yes No
- B. Do any upgraded tanks meeting the requirements of ch. SPS 310, Wis. Adm. Code, exist on the property? Yes No
- C. If the answer to question 7b is yes, is the leak detection system currently being monitored? Yes No

Data Tables (Attachment A)

If any section is not relevant to the case closure request, you must fully explain the reasons why and attach that explanation to the relevant section of the form. All information submitted shall be legible. Providing illegible information may result in a submittal being

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considered incomplete until corrected.

General directions for Data Tables:

- Use bold and italics font on information of importance on tables and figures. Use **bold font** for ch. NR 140, Wis. Adm. Code, groundwater enforcement standard (ES) attainments or exceedances, and *italicized font* for ch. NR 140, Wis. Adm. Code, groundwater preventive action limit (PAL) standard attainments or exceedances.
- Do not use shading or highlighting on the analytical tables.
- Include on Data Tables the level of detection for results which are below the detection level (i.e. do not just list as no detect (ND)).
- Include the units on data tables.
- Summaries of all data must include information collected by previous consultants.
- Do not submit lab data sheets unless these have not been submitted in a previous report. Tabulate all data required in s. NR 716.15 (3)(c), Wis. Adm. Code, in the format required in s. NR 716.15(4)(e), Wis. Adm. Code.
- Include in Attachment A all of the following tables, in the order prescribed below, with the specific Closure Form titles noted on the separate attachments (e.g., Title: A.1. Groundwater Analytical Table; A.2. Pre-remedial Soil Analytical Table, etc).
- For required documents, each table (e.g., A.1., A.2., etc.,) should be a separate PDF.

A. Data Tables

- A.1. **Groundwater Analytical Table(s):** Table(s) showing the analytical results and collection dates, for all groundwater sampling points e.g. monitoring wells, temporary wells, sumps, extraction wells, any potable wells and any other wells, extraction wells and any potable wells for which samples have been collected.
- A.2. **Pre-remedial Soil Analytical Table(s):** Table(s) showing the soil analytical results and collection dates - prior to conducting the interim and/or remedial action. Indicate if sample was collected above or below the all-time low water table (unsaturated verses saturated).
- A.3. **Post-remedial Soil Analytical Table(s):** Table(s) showing the post-remedial action soil analytical results and collection dates. Indicate if sample was collected above or below the all-time low water table (unsaturated verses saturated).
- A.4. **Pre and Post Remaining Soil Contamination Soil Analytical Table(s):** Table(s) showing only the pre and post remedial action soil analytical results that exceed a Residual Contaminate Level (RCL) or a Site-Specific Residual Level (SSRCL).
- A.5. **Vapor Analytical Table:** Table(s) showing type(s) of samples, sample collection methods, analytical method, sample results, date of sample collection, time period for sample collection, method and results of leak detection, and date, method and results of communication testing.
- A.6. **Other Media of Concern (e.g., sediment or surface water):** Table(s) showing type(s) of sample, sample collection method, analytical method, sample results, date of sample collection, time period for sample collection, method and results sampling.
- A.7. **Water Level Elevations:** Table(s) showing all water level elevation measurements and dates from all monitoring wells. If present, free product should be noted on the table.
- A.8. **Other:** This attachment should include: 1) any available tabulated natural attenuation data; 2) data tables pertaining to engineered remedial systems that document operational history, demonstrate system performance and effectiveness, and display emissions data; and (3) any other data tables relevant to case closure not otherwise noted above. If this section is not applicable, please explain the reasons why.

Maps and Figures (Attachment B)

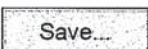
If any section is not relevant to the case closure request, you must fully explain the reasons why and attach that explanation to the relevant section of the form. All information submitted shall be legible. Providing illegible information may result in a submittal being considered incomplete until corrected.

General Directions for all Maps and Figures:

- If any map or figure is not relevant to the case closure request, you must fully explain the reason(s) why and attach that explanation (properly labeled with the map/ figure title) in Attachment B.
- Provide on paper no larger than 11 x 17 inches, unless otherwise directed by the Department. Maps and figures may be submitted in a larger electronic size than 11x17 inches, in a portable document format (pdf) readable by the Adobe Acrobat Reader. However, those larger-size documents must be legible when printed.
- Prepare visual aids, including maps, plans, drawings, fence diagrams, tables and photographs according to the applicable portions of ss. NR 716.15(4), 726.09(2) and 726.11(3), (5) and (6), Wis Adm. Code.
- Do not use shading or highlights on any of the analytical tables.
- Include all sample locations.
- Contour lines should be clearly labeled and defined.
- Include in Attachment B all of the following maps and figures, in the order prescribed below, with the specific Closure Form titles noted on the separate attachments (e.g., Title: B.1. Location Map; B.2. Detailed Site Map, etc).
- For the electronic copies that are required, each map (e.g., B.1.a., B.2.a, etc.,) should be a separate PDF.

B.1. Location Maps

- B.1.a. **Location Map:** A map outlining all properties within the contaminated site boundaries on a U.S.G.S. topographic



map or plat map in sufficient detail to permit easy location of all impacted and/or adjacent parcels. If groundwater standards are exceeded, include the location of all potable wells, including municipal wells, within 1200 feet of the area of contamination.

- B.1.b. **Detailed Site Map:** A map that shows all relevant features (buildings, roads, current ground surface cover, individual property boundaries for on-site and applicable off-site properties, contaminant sources, utility lines, monitoring wells and potable wells) within the contaminated area. This map is to show the location of all contaminated public streets, and highway and railroad rights-of-way in relation to the source property and in relation to the boundaries of groundwater contamination exceeding a ch. NR 140 Enforcement Standard (ES), and/or in relation to the boundaries of soil contamination exceeding a Residual Contaminant Level (RCL) established in accordance with the provisions contained in s. NR 720.10 or s. NR 720.12, Wis. Adm. Code.
- B.1.c. **RR Site Map:** From RR Sites Map ([http://dnrmaps.wi.gov/sl/?Viewer=RR Sites](http://dnrmaps.wi.gov/sl/?Viewer=RR%20Sites)) attach a map depicting the source property, and all open and closed BRRTS sites within a half-mile radius or less of the property.

B.2. Soil Figures

- B.2.a. **Pre-remedial Soil Contamination:** Figure(s) showing the sample location of all pre-remedial, unsaturated contaminated soil and a single contour showing the horizontal extent of each area of contiguous residual soil contamination that exceeded a Residual Contaminant Level (RCL) established in accordance with the provisions contained in s. NR 720.10 or s. NR 720.12, Wis. Adm. Code.
- B.2.b. **Post-remedial Soil Contamination :** Figure(s) showing the sample location of all post-remedial, unsaturated contaminated soil and a single contour showing the horizontal extent of each area of contiguous residual soil contamination that exceeds a Residual Contaminant Level (RCL) established in accordance with the provisions contained in s. NR 720.10 or s. NR 720.12, Wis. Adm. Code. A separate contour line should be used to indicate the extent of residual direct contact exceedances.
- B.2.c. **Pre/Post Remaining Soil Contamination:** Figure(s) showing the only location of all pre and post remedial residual soil sample location(s) where unsaturated contaminated soil remains after remediation and a single contour showing the horizontal extent of each area of contiguous residual soil contamination that exceeds a Residual Contaminant Level (RCL) established in accordance with the provisions contained in s. NR 720.10 or s. NR 720.12, Wis. Adm. Code. A separate contour line should be used to indicate the extent of residual direct contact exceedances.

B.3. Groundwater Figures

- B.3.a. **Geologic Cross-Section Figure(s):** One or more cross-section diagrams showing soil types and correlations across the site, water table and piezometric elevations, and locations and elevations of geologic rock units, if encountered. Display on one or more figures all of the following:
- Source location(s) and vertical extent of residual soil contamination exceeding a Residual Contaminant Level (RCL) or a Site Specific Residual Contaminant Level (SSRCL).
 - Source location(s) and lateral and vertical extent if groundwater contamination exceeds a ch. NR 140 Enforcement Standard (ES)
 - Surface features, including buildings and basements, and show surface elevation changes.
 - Any areas of active remediation within the cross section path, such as excavations or treatment zones.
 - Include a map displaying the cross-section location(s), if they are not displayed on the Detailed Site Map (Map B.1b)
- B.3.b. **Groundwater Isoconcentration:** Figure(s) showing the horizontal extent of the post-remedial groundwater contamination exceeding a ch. NR 140, Wis. Adm. Code, Preventive Action Limit (PAL) and/or an Enforcement Standard (ES). Indicate the date and direction of groundwater flow based on the most recent sampling data.
- B.3.c. **Groundwater Flow Direction:** Figure(s) representing groundwater movement at the site. If the flow direction varies by more than 20° over the history of the site, submit two groundwater flow maps showing the maximum variation in flow direction.
- B.3.d. **Monitoring Wells:** Figure(s) showing all monitoring wells, with well identification number. Clearly designate any wells that: (1) are proposed to be abandoned; (2) cannot be located; (3) are being transferred; (4) will be retained for further sampling, or (5) have been previously abandoned.

B.4. Vapor Maps and Other Media

- B.4.a. **Vapor Intrusion Map:** Map(s) showing all locations and results for samples taken to investigate the vapor intrusion pathway, in relation to remaining soil and groundwater contamination, including sub-slab, indoor air, soil vapor, ambient air, and communication testing. Show locations and footprints of affected structures and utility corridors, and/or where residual contamination poses a future risk of vapor intrusion.
- B.4.b. **Other media of concern (e.g., sediment or surface water):** Map(s) showing all sampling locations and results for other media investigation. Include the date of sample collection and identify where any standards are exceeded.
- B.4.c. **Other:** Include any other relevant maps and figures not otherwise noted above. (This section may remain blank)

Documentation of Remedial Action (Attachment C)

If any section is not relevant to the case closure request, you must fully explain the reasons why and attach that explanation to the relevant section of the form. All information submitted shall be legible. Providing illegible information may result in a submittal being considered incomplete until corrected.

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General Directions:

- Include in Attachment C all of the following documentation, in the order prescribed below, with the specific Closure Form titles noted on the separate attachments (e.g., Title: C.1. Site Investigation Documentation; C.2. Investigative Waste, etc).
- If the documentation requested below is "not applicable" to the site-specific circumstances, include a brief explanation to support that conclusion.
- If the documentation requested below has already been submitted to the Department, please note the title and date of the report for that particular document requested.
 - C.1. **Site investigation documentation**, that has not otherwise been previously submitted.
 - C.2. **Investigative waste** disposal documentation.
 - C.3. **Provide a description of the methodology used along with all supporting documentation if the Residual Contaminant Levels are different than those contained in the Department's RCL Spreadsheet available at: <http://dnr.wi.gov/topic/Brownfields/Professionals.html>.**
 - C.4. **Construction documentation** or as-built report for any constructed remedial action or portion of, or interim action specified in s. NR 724.02(1), Wis. Adm. Code.
 - C.5. **Decommissioning of Remedial Systems.** Include plans to properly abandon any systems or equipment upon receiving conditional closure.
 - C.6. **Photos.** For sites or facilities with a cover or other performance standard, a structural impediment or a vapor mitigation system. Include one or more photographs documenting the condition and extent of the feature at the time of the closure request. Pertinent features should be visible and discernible. Photographs must be labeled with the site name, the features shown, location and the date on which the photograph was taken.
 - C.7. **Other.** Include any other relevant documentation not otherwise noted above. (This section may remain blank)

Maintenance Plan(s) and Photographs (Attachment D)

If any section is not relevant to the case closure request, you must fully explain the reasons why and attach that explanation to the relevant section of the form. All information submitted shall be legible. Providing illegible information may result in a submittal being considered incomplete until corrected.

When one or more "maintenance plans" are required for a site closure, include in each maintenance plan all required information listed below, and attach the plan(s) in Attachment D. The following "model" maintenance plans can be located at: (1) Maintenance plan for a engineering control or cover: <http://dnr.wi.gov/topic/Brownfields/documents/maintenance-plan.pdf>; and (2) Maintenance plan for vapor intrusion: http://dnr.wi.gov/topic/Brownfields/documents/appendix5_606.pdf.

- D.1. **Location map(s)** which show(s): (1) the feature that requires maintenance; (2) the location of the feature(s) that require(s) maintenance - on and off the source property; (3) the extent of the structure or feature(s) to be maintained, in relation to other structures or features on the site; (4) the extent and type of residual contamination; and (5) and all property boundaries.
- D.2. **Brief descriptions** of the type, depth and location of residual contamination.
- D.3. **Description of maintenance action(s)** required for maximizing effectiveness of the engineered control, vapor mitigation system, feature or other action for which maintenance is required.
- D.4. **Inspection log**, to be maintained on site, or at a location specified in the maintenance plan or approval letter.
- D.5. **Contact information**, including the name, address and phone number of the individual or facility who will be conducting the maintenance.
- D.6. Photographs
 - D.6.a. For site or facilities with a cover or other performance standard, a structural impediment or a vapor mitigation system, include one or more photographs documenting the condition and extent of the feature at the time of the closure request. Pertinent features shall be visible and discernible.
 - D.6.b. Photographs shall be submitted with a title related to the site name and location, and the date on which it was taken.

Monitoring Well Information (Attachment E)

If any section is not relevant to the case closure request, you must fully explain the reasons why and attach that explanation to the relevant section of the form. All information submitted shall be legible. Providing illegible information may result in a submittal being considered incomplete until corrected.

General Directions:

Attach monitoring well construction and development forms (DNR FORM 4400-113 A and B: http://dnr.wi.gov/topic/groundwater/documents/forms/4400_113_1_2.pdf) for all wells that will remain in-use, be transferred to another party or that could not be located. A figure of these wells should be included in Attachment B.3.d.

Select One:

- No monitoring wells were required as part of this response action.
- All monitoring wells have been located and will be properly abandoned upon the DNR granting conditional closure to the site
- Select One or More:**
 - Not all monitoring wells can be located, despite good faith efforts. Attachment E must include description of efforts made to locate the "lost" wells.
 - One or more wells will be transferred to another owner upon case closure being granted. Attachment E should include documentation identifying the name, address and email for the new owner(s).
 - One or more wells will remain in use at the site after this closure. Attachment E must include documentation as to the reason(s) the well(s) will remain in use.

Notifications to Owners of Impacted Properties (Attachment F)

If any section is not relevant to the case closure request, you must fully explain the reasons why and attach that explanation to the relevant section of the form. All information submitted shall be legible. Providing illegible information may result in a submittal being considered incomplete until corrected.

General Directions:

- State law requires that the responsible party provide a 30-day, written advance notice (i.e., a letter) to certain persons prior to applying for case closure. This requirement applies if: (1) the person conducting the response action does not own the source property; (2) the contamination has migrated onto another property; and/or (3) one or more monitoring wells will not be abandoned.
- Use of Form 4400-286, Notification of Residual Contamination and Continuing Obligations, is required under ch. NR 725 for notifying property owners and right-of-way holders about residual contamination affecting their properties, and of continuing obligations which may be imposed. This form can be downloaded at <http://dnr.wi.gov/files/PDF/forms/4400/4400-286.pdf>.

Check all that apply to the site-specific circumstances of this case closure:

	A. Impacted Source Property and Owner is not Conducting Cleanup	B. Impacted Right of Way	C. Impacted Off-Site Property Owner	Impacted Property Notification Situations: Ch. NR 726 Appendix A Letter
1.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Residual groundwater contamination exceeds Ch. NR 140 Wis. Administrative Code enforcement standards.
2.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Residual soil contamination that attains or exceeds standards is present after the remedial action is complete, and must be properly managed should it be excavated or removed.
3.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	An engineered cover or a soil barrier (e.g. pavement) must be maintained over contaminated soil for direct contact or groundwater infiltration concerns.
4.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Industrial land use soil standards were used for the clean-up standard.
5.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	A vapor mitigation system (or other specific vapor protection) must be operated and maintained.
6.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Vapor assessment needed if use changes.
7.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Structural impediment.
8.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Lost, transferred or open monitoring wells.
9.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Not Applicable.

If any of the previous boxes in rows 1 thru 8 were checked, include the following as part of Attachment F:

- FORM 4400-246;
- Copy of each letter sent, 30 days or more prior to requesting closure; and
- Proof of receipt for each letter.
- For this site closure, 0 (number) property (ies) has/have been impacted, the owners have been notified, and copies of the letters and receipts are included in Attachment F.

Save...

BRRTS No.

Activity (Site) Name

Signatures and Findings for Closure Determination

If any section is not relevant to the case closure request, you must fully explain the reasons why and attach that explanation to the relevant section of the form. All information submitted shall be legible. Providing illegible information may result in a submittal being considered incomplete until corrected.

Check the correct box for this case closure request, and have either a professional engineer or a hydrogeologist, as defined in ch. NR 712, Wis. Adm. Code, sign this document.

[X] A response action(s) for this site addresses groundwater contamination (including natural attenuation remedies).

[X] The response action(s) for this site addresses media other than groundwater.

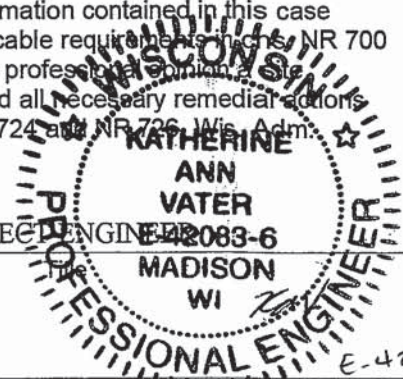
Engineering Certification

I KATHERINE A. VATER hereby certify that I am a registered professional engineer in the State of Wisconsin, registered in accordance with the requirements of ch. A-E 4, Wis. Adm. Code; that this case closure request has been prepared by me or prepared under my supervision in accordance with the Rules of Professional Conduct in ch. A-E 8, Wis. Adm. Code; and that, to the best of my knowledge, all information contained in this case closure request is correct and the document was prepared in compliance with all applicable requirements in chs. NR 700 to 726, Wis. Adm. Code. Specifically, with respect to compliance with the rules, in my professional opinion a site investigation has been conducted in accordance with ch. NR 716, Wis. Adm. Code, and all necessary remedial actions have been completed in accordance with chs. NR 140, NR 718, NR 720, NR 722, NR 724 and NR 726, Wis. Adm. Codes."

KATHERINE A. VATER

Printed Name

PROJECT ENGINEER E-42083-6



P.E. Stamp and Number

Katherine A Vater

Signature

2/9/2015

Date

Hydrogeologist Certification

I NATHANIEL R. KELLER hereby certify that I am a hydrogeologist as that term is defined in s. NR 712.03 (1), Wis. Adm. Code, and that, to the best of my knowledge, all of the information contained in this case closure request is correct and the document was prepared by me or prepared by me or prepared under my supervision and, in compliance with all applicable requirements in chs. NR 700 to 726, Wis. Adm. Code. Specifically, with respect to compliance with the rules, in my professional opinion a site investigation has been conducted in accordance with ch. NR 716, Wis. Adm. Code, and all necessary remedial actions have been completed in accordance with chs. NR 140, NR 718, NR 720, NR 722, NR 724 and NR 726, Wis. Adm. Codes."

NATHANIEL R. KELLER

Printed Name

SENIOR SCIENTIST

Title

Nathaniel R. Keller

Signature

2/9/15

Date

WDNR Case Closure – GIS Registry Form 4400-202

BRRTS #03-45-555892

BRRTS Activity Name: **White Property – WI DOT**

Attachment A: Data Tables

Attachment A.1: Groundwater Analytical Table(s)

Table A.1
Groundwater Analytical Results
STH 76 (White Property)
WisDOT ID #6517-07-74
Stephensville, Wisconsin

ANALYTE	UNITS	ES	PAL	08/20/10				08/20/10	04/14/11	10/30/12	12/08/10	04/14/11	09/22/11	02/21/12	10/30/12	04/25/13	12/06/13
				GP1	GP2	GP3	GP5	PW-WHITE ⁽²⁾			MW-1						
VOCs⁽¹⁾																	
Benzene	µg/L	5	0.5	< 0.39	96.5	< 0.39	< 0.39	< 0.39	< 0.39	NA	2.3	< 0.39	< 0.41	< 0.39	< 0.39	< 0.39	< 0.34
Ethylbenzene	µg/L	700	140	73.0	126	< 0.41	< 0.41	< 0.41	< 0.41	NA	5.8	< 0.41	< 0.54	0.58J	< 0.41	< 0.41	< 0.34
Methyl Tert-Butyl Ether	µg/L	60	12	4.8	0.85 J	< 0.38	< 0.38	< 0.38	< 0.38	NA	2.6	1.5	< 0.61	1.9	< 0.38	< 0.38	< 0.37
Naphthalene	µg/L	100	10	57.8	68.3	< 0.40	< 0.40	< 0.40	NA	NA	7.2	NA	< 0.89	1.5	< 0.40	< 0.40	< 0.37
Toluene	µg/L	1,000	200	< 0.42	20.6	< 0.42	< 0.42	< 0.42	< 0.42	NA	2.4	< 0.42	< 0.67	< 0.42	< 0.42	< 0.42	< 0.34
Trimethylbenzenes	µg/L	480	96	89.7	119.8	< 0.83	< 0.83	< 0.83	< 0.83	NA	39.2	5.2	3.4	15.1	0.61 J	< 0.83	< 0.69
Xylenes	µg/L	10,000	1,000	50.4	168.6	< 1.25	< 1.25	< 1.25	< 1.25	NA	4.07 J ⁽³⁾	< 1.25	< 1.8	< 1.25	< 1.25	< 1.3	< 1.03
Total Metals (Dissolved)⁽¹⁾																	
Lead	µg/L	15	1.5	1.9 J	1.9 J	1.9 J	< 1.7	< 1.7	2.5 J	2.4 J ⁽⁶⁾	1.7 J	< 1.7	3.0 J	< 1.4	< 1.7	1.5 J	2.9 J
Groundwater Elevation⁽⁵⁾	Feet	--	--	--	--	--	--	--	--	--	86.30	90.80	84.85	84.50	86.15	90.19	84.78

Notes:

ES = NR 140 Enforcement Standard; analytical results that exceed the ES are shown in **irbold** font.

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

NA = not analyzed.

PAL = NR 140 Preventative Action Limit; analytical results that exceed the PAL are shown in *italics*.

Unless otherwise noted all lead samples were analyzed for dissolved lead (filtered).

Footnotes:

⁽¹⁾ The September 22, 2011 sample was analyzed for VOCs and RCRA metals. Previous samples were analyzed for PVOCs, naphthalene, and lead as noted. Only select analytes are shown.

⁽²⁾ Sample PW was collected from the site's private well.

⁽³⁾ The m&p-Xylene concentration is 3.4 µg/L and the o-Xylene concentration is 0.67 J µg/L.

⁽⁴⁾ Sample PW-T was collected from the private well on the Twister's Bar property, located to the east of the White property, directly across STH 76.

⁽⁵⁾ Groundwater elevation in feet are based on field reference point and not based on defined vertical datum.

⁽⁶⁾ PW-WHITE water sample was analyzed for total lead (unfiltered) October 30, 2012.

Table A.1
Groundwater Analytical Results
STH 76 (White Property)
WisDOT ID #6517-07-74
Stephensville, Wisconsin

ANALYTE	UNITS	ES	PAL	12/08/10	04/14/11	09/22/11	02/21/12	10/30/12	04/25/13	12/06/13	12/08/10	04/14/11	09/22/11	02/21/12	10/30/12	04/25/13	12/06/13
				MW-2							MW-3						
VOCs⁽¹⁾																	
Benzene	µg/L	5	0.5	< 0.39	< 0.97	< 1.0	< 0.39	< 0.97	< 0.39	< 0.34	0.42 J	< 0.39	18.1	27.4	< 0.39	< 0.39	1.5
Ethylbenzene	µg/L	700	140	260	172	169	174	75.1	0.44J	55.1	1.0	< 0.41	8.5	< 0.41	< 0.41	< 0.41	< 0.34
Methyl Tert-Butyl Ether	µg/L	60	12	3.3	12.0	< 1.5	5.5	1.7 J	< 0.38	1.6	< 0.38	< 0.38	< 0.61	< 0.38	< 0.38	< 0.38	< 0.37
Naphthalene	µg/L	100	10	116	NA	113	107	60.1	1.7	47.3	0.65 J	NA	2.8 J	2.3	< 0.40	< 0.40	1.2
Toluene	µg/L	1,000	200	5.6	4.5	< 1.7	4	< 1.0	< 0.42	< 0.34	< 0.42	< 0.42	22.6	2.1	< 0.42	< 0.42	0.39J
Trimethylbenzenes	µg/L	480	96	218.7	469	350.7	363	309	12.3	141	< 0.83	< 0.83	< 0.83	< 0.83	< 0.83	< 0.83	< 0.69
Xylenes	µg/L	10,000	1,000	135.2	209.9	204	179	125.3	1.9J	74.7	2.21 J	< 1.25	6.1	1.69 J	< 1.25	< 1.3	3.6
Total Metals⁽¹⁾																	
Lead	µg/L	15	1.5	2.0 J	1.7 J	3.5 J	2.3 J	4.4 J	4.1J	3.1J	1.8 J	2.0 J	2.7 J	< 1.4	< 1.7	2.7J	4.0J
Groundwater Elevation⁽⁵⁾	Feet	--	--	85.91	90.35	84.40	84.20	85.51	89.85	84.29	85.23	88.43	83.97	83.82	84.77	87.84	83.77

Notes:

ES = NR 140 Enforcement Standard; analytical results that exceed the ES are shown in **bold** font.

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

NA = not analyzed.

PAL = NR 140 Preventative Action Limit; analytical results that exceed the PAL are shown in *italics*.

Unless otherwise noted all lead samples were analyzed for dissolved lead (filtered).

Footnotes:

⁽¹⁾ The September 22, 2011 sample was analyzed for VOCs and RCRA metals. Previous samples were analyzed for PVOCs, naphthalene, and lead as noted. Only select analytes are shown.

⁽²⁾ Sample PW was collected from the site's private well.

⁽³⁾ The m&p-Xylene concentration is 3.4 µg/L and the o-Xylene concentration is 0.67 J µg/L.

⁽⁴⁾ Sample PW-T was collected from the private well on the Twister's Bar property, located to the east of the White property, directly across STH 76.

⁽⁵⁾ Groundwater elevation in feet are based on field reference point and not based on defined vertical datum.

⁽⁶⁾ PW-WHITE water sample was analyzed for total lead (unfiltered) October 30, 2012.

Table A.1
Groundwater Analytical Results
STH 76 (White Property)
WisDOT ID #6517-07-74
Stephensville, Wisconsin

ANALYTE	UNITS	ES	PAL	12/08/10	04/14/11	09/22/11	02/21/12	10/29/12	04/25/13	12/06/13	03/20/15	12/08/10	04/14/11	09/22/11	02/21/12	10/29/12	04/25/13	12/06/13	12/08/10	04/14/11	
				MW-4								MW-5								PW-T ⁽⁴⁾	
VOCs⁽¹⁾																					
Benzene	µg/L	5	0.5	<i>0.51 J</i>	12.7	<i>0.80 J</i>	19.9	53.2	33.2	<i>0.92 J</i>	<0.40	< 0.39	< 0.39	< 0.41	<0.39	<0.39	<0.39	<0.34	< 0.39	< 0.39	
Ethylbenzene	µg/L	700	140	< 0.41	<i>0.51 J</i>	< 0.54	1.4	4.4	4.6	<0.34	<0.39	< 0.41	< 0.41	< 0.54	<0.41	<0.41	<0.41	<0.34	< 0.41	< 0.41	
Methyl Tert-Butyl Ether	µg/L	60	12	< 0.38	<i>0.40 J</i>	< 0.61	<0.38	1.8	5.7	<0.37	<0.48	< 0.38	< 0.38	< 0.61	0.41J	<0.38	0.49J	<0.37	< 0.38	< 0.38	
Naphthalene	µg/L	100	10	< 0.40	NA	< 0.89	<0.40	0.71 J	0.58J	<0.37	<0.42	< 0.40	NA	< 0.89	<0.40	<0.40	<0.40	<0.37	< 0.40	NA	
Toluene	µg/L	1,000	200	< 0.42	<i>0.95 J</i>	< 0.67	2.2	7.9	6.4	<0.34	<0.39	< 0.42	< 0.42	< 0.67	<0.42	<0.42	<0.42	<0.34	< 0.42	< 0.42	
Trimethylbenzenes	µg/L	480	96	< 0.83	< 0.83	< 0.83	<0.83	0.89 J	<0.83	<0.69	<0.84	< 0.83	< 0.83	< 0.83	<0.83	<0.83	<0.83	<0.69	< 0.83	< 0.83	
Xylenes	µg/L	10,000	1,000	< 1.25	< 1.25	< 1.8	<1.25	4.1	2.9J	<1.03	<1.2	< 1.25	< 1.25	< 1.8	<1.25	<1.25	<1.3	<1.03	< 1.25	< 1.25	
Total Metals⁽¹⁾																					
Lead	µg/L	15	1.5	<i>2.0 J</i>	<i>2.5 J</i>	<i>3.1 J</i>	<1.4	<1.7	<1.2	<i>2.0 J</i>	<3.0	<i>2.1 J</i>	<i>2.3 J</i>	<i>2.8 J</i>	<1.4	<1.7	<i>3.4 J</i>	<i>1.9 J</i>	<i>8.6</i>	<i>2.5 J</i>	
Groundwater Elevation⁽⁵⁾	Feet	--	--	84.82	88.21	83.92	83.64	84.32	87.00	83.41	83.32	85.74	90.23	84.51	84.09	85.44	89.18	84.22	--	--	

Notes:
ES = NR 140 Enforcement Standard; analytical results that exceed the ES are shown in **bold** font.
J = Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.
NA = not analyzed.
PAL = NR 140 Preventative Action Limit; analytical results that exceed the PAL are shown in *italics*.
Unless otherwise noted all lead samples were analyzed for dissolved lead (filtered).

Updated: KAV 4/9/15
Checked: T. O'Connell 4/22/15

Footnotes:
⁽¹⁾ The September 22, 2011 sample was analyzed for VOCs and RCRA metals. Previous samples were analyzed for PVOCs, naphthalene, and lead as noted. Only select analytes are shown.
⁽²⁾ Sample PW was collected from the site's private well.
⁽³⁾ The m&p-Xylene concentration is 3.4 µg/L and the o-Xylene concentration is 0.67 J µg/L.
⁽⁴⁾ Sample PW-T was collected from the private well on the Twister's Bar property, located to the east of the White property, directly across STH 76.
⁽⁵⁾ Groundwater elevation in feet are based on field reference point and not based on defined vertical datum.
⁽⁶⁾ PW-WHITE water sample was analyzed for total lead (unfiltered) October 30, 2012.

Attachment A: Data Tables

Attachment A.2: Pre-remedial Soil Analytical Table(s)

Table A.2
Pre-Remedial Soil Analytical
Summary of Soil Analytical Results
STH 76, Stephenville, Wisconsin – WisDOT Project ID #6517-07-74
August 6, 2010 and August 20, 2010

ANALYTE	NR 720 RCLs ⁽¹⁾	NR 746 STANDARD	AUGUST 6, 2010						
			SOIL SAMPLE ID AND DEPTH (feet bgs)						
			SWN ⁽²⁾ 3	SWE 3	SWS 3	SWW 3	BN ⁽²⁾ 8	BS 8	WC ⁽²⁾ --
PID	--	--	119	279	29	3	472	7	> 2,000
DRO (mg/kg)	100	--	<i>344</i>	<i>363</i>	< 1.2	< 1.0	<i>330</i>	< 1.0	4.2
GRO (mg/kg)	100	--	<i>2,890</i>	<i>4,210</i>	< 3.1	4.8	<i>1,890</i>	< 2.9	<i>240</i>
1,2,4-Trimethylbenzene (µg/kg)	--	83,000	72,200	173,000	< 25.0	68.5 J	77,900	< 25.0	8,540
1,3,5-Trimethylbenzene (µg/kg)	--	11,000	44,500	86,800	< 25.0	82.8	31,100	< 25.0	4,920
Benzene (µg/kg)	5.5	8,500 / 1,100 ⁽³⁾	< 625	< 1,000	< 25.0	< 25.0	< 500	< 25.0	< 50.0
Ethylbenzene (µg/kg)	2,900	4,600	17,700	20,600	< 25.0	< 25.0	27,100	< 25.0	861
MTBE (µg/kg)	--	--	< 625	< 1,000	< 25.0	< 25.0	< 500	< 25.0	< 50.0
Naphthalene (µg/kg)	400 ⁽⁴⁾	2,700	17,500 B	19,400 B	< 25.0	48.3 J, B	12,000 B	< 25.0	1,930 B
Toluene (µg/kg)	1,500	38,000	<i>11,000</i>	<i>4,790</i>	< 25.0	< 25.0	<i>32,200</i>	< 25.0	83.1 J
Total xylenes (µg/kg)	4,100	42,000	130,000	93,200	< 75.0	< 75.0	155,000	< 75.0	<i>7,500</i>
Lead (mg/L) ⁽⁵⁾	--	--	NA	NA	NA	NA	NA	NA	< 0.019
Low Groundwater Elevation (feet bgs) ⁽⁶⁾			15.50	15.50	15.50	15.50	15.50	15.50	15.50

Notes:

RCLs = Wisconsin Administrative Code Chapter NR 720 generic Residual Contaminant level.

bgs = below ground surface.

PID = photoionization detector.

DRO - diesel range organics.

GRO = gasoline range organics.

-- = no RCL established.

B = Analyte was detected in the associated method blank.

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

ITALICS values exceed NR 720 RCL.

BOLD values exceed NR 746 Standard.

Footnotes:

⁽¹⁾ NR RCLs are generic guidelines as used in the 2010 Underground Storage Tank Abandonment, Site Investigation and Remediation Report.

⁽²⁾ Soil excavated and treated/disposed at Veolia's Hickory Meadows Landfill.

⁽³⁾ 1,100 applies to the top 4 ft of soil per NR 746 Direct Contact Standard.

⁽⁴⁾ RR-519-97 groundwater pathway RCL for naphthalene.

⁽⁵⁾ Lead analyzed using Toxicity Characteristic Leaching Procedure (TCLP) testing.

⁽⁶⁾ The all time seasonal low groundwater elevation data was collected from nearby MW-1 during the 02/21/2012 monitoring event.

Prepared by: MDW 08/24/10

Checked by: JMO 10/11/10

Attachment A: Data Tables

Attachment A.3: Post-remedial Soil Analytical Table(s)

**Table A.3 - Post-remedial Soil Analytical
Summary of Soil Analytical Results
STH 76, Stephenville, Wisconsin – WisDOT Project ID #6517-07-74
August 20, 2010**

ANALYTE	NR 720 RCL	NR 746 STANDARD	AUGUST 20, 2010					
			SOIL SAMPLE ID AND DEPTH (feet bgs)					
			GP1 14 - 16	SW NORTH 4 - 5	TP 10	GP2 16 - 18	SW WEST 4 - 5	BASE 10
PID	--	--	8	< 1	< 1	446	< 1	1,889
DRO (mg/kg)	100	--	28.3	< 1.1	< 1.0	37.7	< 0.85	371
GRO (mg/kg)	100	--	240	< 2.9	< 2.8	701	< 3.1	1,700
1,2,4-Trimethylbenzene (µg/kg)	--	83,000	1,060	< 25.0	< 25.0	16,800	< 25.0	32,600
1,3,5-Trimethylbenzene (µg/kg)	--	11,000	1,350	< 25.0	< 25.0	7,690	< 25.0	17,600
Benzene (µg/kg)	5.5	8,500 / 1,100 ⁽¹⁾	< 25.0	< 25.0	< 25.0	< 125	< 25.0	1,370
Ethylbenzene (µg/kg)	2,900	4,600	828	< 25.0	< 25.0	<i>4,460</i>	< 25.0	14,100
MTBE (µg/kg)	--	--	72.0 J	< 25.0	< 25.0	162 J	< 25.0	< 250
Naphthalene (µg/kg)	400 ⁽²⁾	2,700	449	< 25.0	< 25.0	2,640	< 25.0	7,790
Toluene (µg/kg)	1,500	38,000	163	< 25.0	< 25.0	620	< 25.0	14,700
Total xylenes (µg/kg)	4,100	42,000	2,114	< 75.0	< 75.0	8,550	< 75.0	69,100
Lead (mg/L) ⁽³⁾	--	--	NA	NA	NA	NA	NA	NA

Notes:

RCLs = Wisconsin Administrative Code Chapter NR 720 generic Residual Contaminant level. RCL for lead is non-industrial standard.

bgs = below ground surface.

PID = photoionization detector.

DRO - diesel range organics.

GRO = gasoline range organics.

-- = no RCL established.

NA = not analyzed.

NR = Laboratory analytical results not yet received.

B = Analyte was detected in the associated method blank.

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

ITALICS values exceed NR 720 RCL.

BOLD values exceed NR 746 Standard.

Footnotes:

⁽¹⁾ 1,100 applies to the top 4 ft of soil per NR 746 Direct Contact Standard.

⁽²⁾ RR-519-97 groundwater pathway RCL for naphthalene.

⁽³⁾ Lead analyzed using Toxicity Characteristic Leaching Procedure (TCLP) testing. Total lead analysis was not performed.

⁽⁴⁾ Soil excavated and treated/disposed at Veolia's Hickory Meadows Landfill.

Prepared by: MDW 08/24/10

Checked by: JMO 10/11/10

Attachment A: Data Tables

**Attachment A.4: Pre and Post Remaining Soil
Contamination Analytical Table(s)**

Table A.4
 Summary of Remaining Soil Contamination
 STH 76, Stephenville, Wisconsin – WisDOT Project ID #6517-07-74
 BRRTS #03-45-555892
 August 6, 2010 and August 20, 2010

ANALYTE	NR 720 RCL	NR 746 STANDARD	AUGUST 6, 2010	AUGUST 20, 2010		
			SOIL SAMPLE ID AND DEPTH (feet bgs)			
			SWE 3	GP1 14 - 16	GP2 16 - 18	BASE 10
PID	--	--	279	8	446	1,889
DRO (mg/kg)	100	--	363	28.3	37.7	371
GRO (mg/kg)	100	--	4,210	240	701	1,700
1,2,4-Trimethylbenzene (µg/kg)	--	83,000	173,000	1,060	16,800	32,600
1,3,5-Trimethylbenzene (µg/kg)	--	11,000	86,800	1,350	7,690	17,600
Benzene (µg/kg)	5.5	8,500 / 1,100 ⁽¹⁾	< 1,000	< 25.0	< 125	1,370
Ethylbenzene (µg/kg)	2,900	4,600	20,600	828	4,460	14,100
MTBE (µg/kg)	--	--	< 1,000	72.0 J	162 J	< 250
Naphthalene (µg/kg)	400 ⁽²⁾	2,700	19,400 B	449	2,640	7,790
Toluene (µg/kg)	1,500	38,000	4,790	163	620	14,700
Total xylenes (µg/kg)	4,100	42,000	93,200	2,114	8,550	69,100

Notes:

RCLs = Wisconsin Administrative Code Chapter NR 720 generic Residual Contaminant level.

bgs = below ground surface.

PID = photoionization detector.

DRO - diesel range organics.

GRO = gasoline range organics.

-- = no RCL established.

B = Analyte was detected in the associated method blank.

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

ITALICS values exceed NR 720 RCL.

BOLD values exceed NR 746 Standard.

Footnotes:

⁽¹⁾ 1,100 applies to the top 4 ft of soil per NR 746 Direct Contact Standard.

⁽²⁾ RR-519-97 groundwater pathway RCL for naphthalene.

Attachment A: Data Tables

Attachment A.5: Vapor Analytical Table(s)



Not Included: Vapor was not sampled. Vapor risk pathway evaluated to be incomplete.

Attachment A: Data Tables

Attachment A.6: Other Media of Concern

Not Included: There are no other media of concern.

WDNR Case Closure – GIS Registry Form 4400-202

BRRTS #03-45-555892

BRRTS Activity Name: **White Property – WI DOT**

Attachment A: Data Tables

Attachment A.7: Water Level Elevations

Table A.7
Summary of Groundwater Elevation Data
STH 76, Stephenville, Wisconsin - WisDOT Project ID #6517-07-74
WDNR BRRTS #03-45-555892, WisDOT #1009-03-50

GROUNDWATER MONITORING WELL	TOP OF CASING ELEVATION (ft ¹)	SAMPLE DATE	DEPTH TO WATER (ft)	GROUNDWATER ELEVATION (ft)
MW-1	100	12/8/2010	13.70	86.30
		4/14/2011	9.20	90.80
		9/22/2011	15.15	84.85
		2/21/2012	15.50	84.50
		10/30/2012	13.85	86.15
		4/25/2013	9.81	90.19
		12/6/2013	15.22	84.78
		3/20/2015	16.06	83.94
MW-2	98.11	12/8/2010	12.20	85.91
		4/14/2011	7.76	90.35
		9/22/2011	13.71	84.40
		2/21/2012	13.91	84.20
		10/30/2012	12.60	85.51
		4/25/2013	8.26	89.85
		12/6/2013	13.82	84.29
		3/20/2015	14.32	83.79
MW-3	93.92	12/8/2010	8.69	85.23
		4/14/2011	5.49	88.43
		9/22/2011	9.95	83.97
		2/21/2012	10.10	83.82
		10/30/2012	9.15	84.77
		4/25/2013	6.08	87.84
		12/6/2013	10.15	83.77
		3/20/2015	10.45	83.47
MW-4	95.12	12/8/2010	10.30	84.82
		4/14/2011	6.91	88.21
		9/22/2011	11.20	83.92
		2/21/2012	11.48	83.64
		10/29/2012	10.80	84.32
		4/25/2013	8.12	87.00
		12/6/2013	11.71	83.41
		3/20/2015	11.80	83.32
MW-5	100.04	12/8/2010	14.30	85.74
		4/14/2011	9.81	90.23
		9/22/2011	15.53	84.51
		2/21/2012	15.95	84.09
		10/29/2012	14.60	85.44
		4/25/2013	10.86	89.18
		12/6/2013	15.82	84.22
		3/20/2015	16.35	83.69

Notes:

¹ = Groundwater elevations are referenced to a local benchmark, not M.S.L.
 BTOC = Below Top of Casing

Created by: KAV 4/9/15

Checked by: T. O'Connell 4/22/15

Attachment A: Data Tables

Attachment A.8: Other

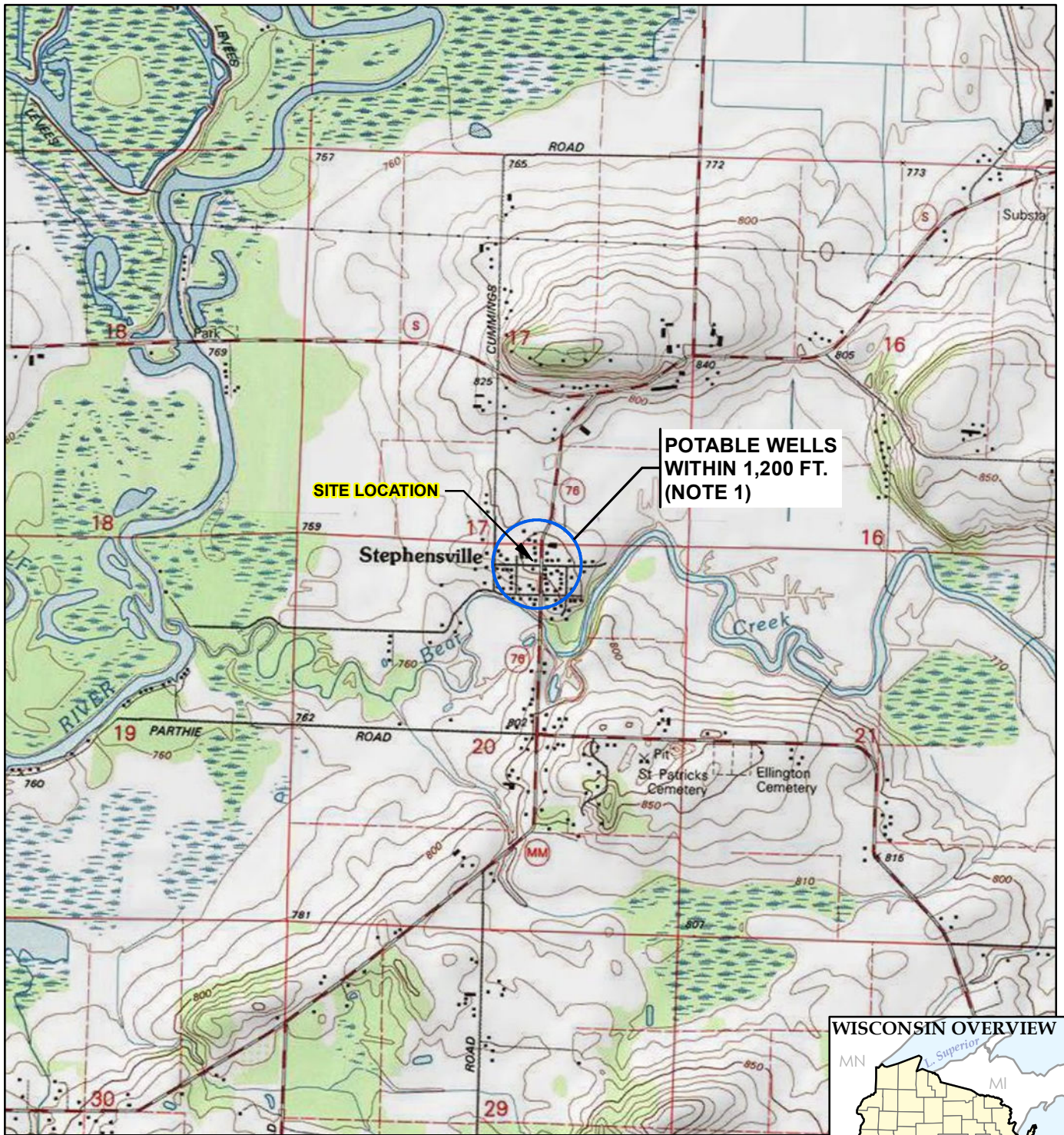


Not Included: No other data relevant to the case closure request is available.

Attachment B: Maps and Figures

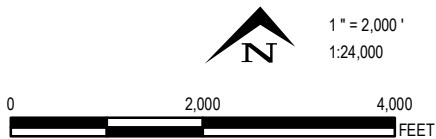
Attachment B.1: Location Maps

Attachment B.1.a: Location Map



BASE MAP FROM USGS 7.5 MINUTE TOPOGRAPHIC QUADRANGLE SERIES.

NOTE 1: POTABLE WELLS WERE IDENTIFIED WITHIN 1,200 FT. OF THE SITE LOCATION. SEE FIGURE B.1.b FOR THE LOCATION OF POTABLE WELLS ADJACENT TO THE SITE.



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WISDOT - STH 76 STEPHENSVILLE
ID# 6517-07-74
BRRTS# 03-45-555892

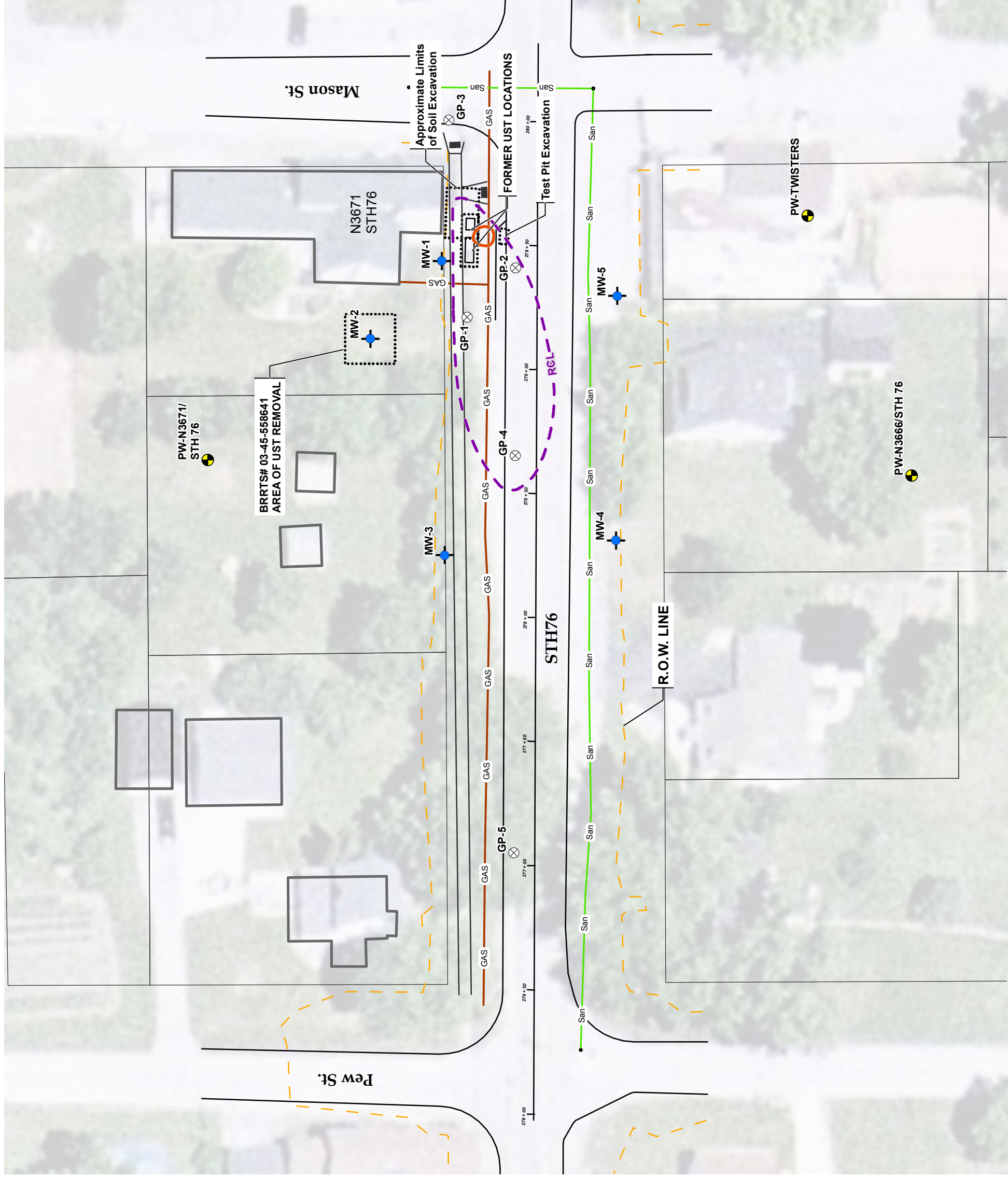
B.1.a - SITE LOCATION MAP

DRAWN BY:	RHODE B
APPROVED BY:	O'CONNELL T
PROJECT NO:	005134.0000.0000
FILE NO.	63430225.mxd
DATE:	APRIL 2015

Attachment B: Maps and Figures

Attachment B.1: Location Maps

Attachment B.1.b: Detailed Site Map



LEGEND

- TRC MONITORING WELL LOCATION (12/8/2010)
- PRIVATE WELL LOCATION
- TRC BORING/TEMPORARY
- MONITORING WELL LOCATION (8/20/2010)
- NR 720 RCL EXCEEDANCE 0-10 FT. BGS (POST-REMEDIATION, DASHED WHERE INFERRED)
- NR 720 RCL EXCEEDANCE 10-20 FT. BGS (POST-REMEDIATION, DASHED WHERE INFERRED)
- APPROXIMATE PROPERTY BOUNDARIES

NOTES

1. R.O.W. AND STREET/STH DETAILS ARE TAKEN FROM THE EROSION CONTROL PLAN INCLUDED THE PLAN OF PROPOSED IMPROVEMENT WisDOT PROJECT ID# 6517-07-74, STH 76.
2. PROPERTY BOUNDARIES ACQUIRED FROM OUTAGAMIE COUNTY INTERACTIVE GIS WEBSITE, LOCATIONS ARE APPROXIMATE.



PROJECT: **WISDOT - STH 76 STEPHENSVILLE**
ID# 6517-07-74
BRRTS# 03-45-558641

DETAILED SITE MAP

DRAWN BY:	RHODE B	SCALE:	1:480	PROJ. NO.	005134.0000.0000
CHECKED BY:	VATER K	FILE NO.	63430209.mxd		
APPROVED BY:	O'CONNELL T	DATE PRINTED:	APRIL 2015		
DATE:					

FIGURE B.1.b



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 Madison, WI 53717
 Phone: 608.826.3600
 www.trcsolutions.com

Attachment B: Maps and Figures

Attachment B.1: Location Maps

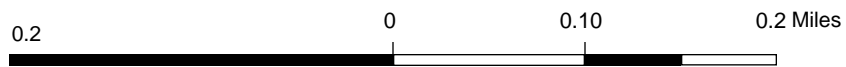
Attachment B.1.c: RR Site Map



B.1.c - RR Site Map



- Legend**
- ◆ Open Site (ongoing cleanup)
 - Open Site Boundary
 - ◆ Closed Site (completed cleanup)
 - Closed Site Boundary
 - Cities
 - Villages
 - Airport
 - 2010 Air Photos (WROC)



NAD_1983_HARN_Wisconsin_TM

© Latitude Geographics Group Ltd.

1: 6,215

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/org/legal/>

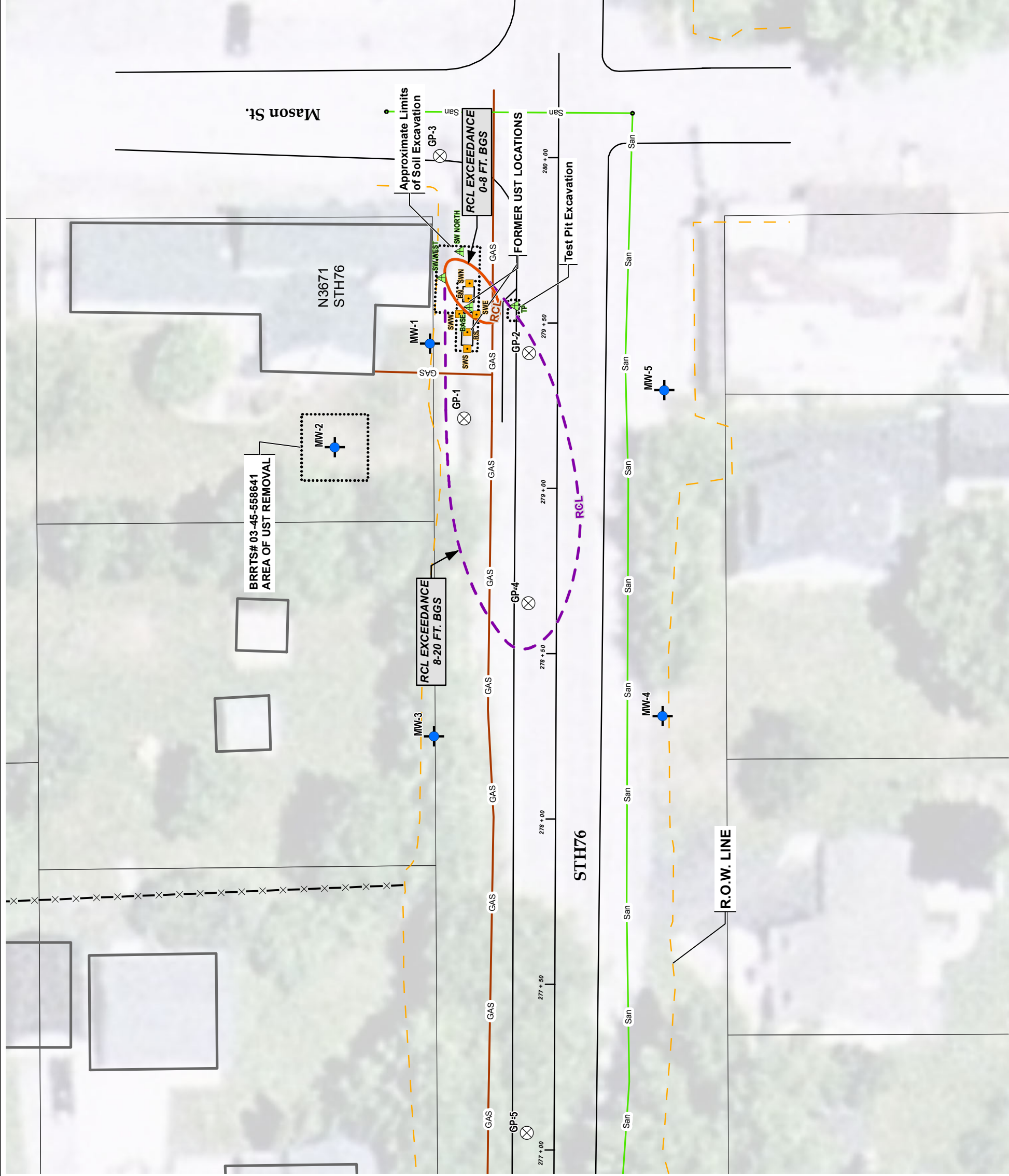
Note: Not all sites are mapped.

Notes

Attachment B: Maps and Figures

Attachment B.2: Soil Figures

Attachment B.2.a: Pre-remedial Soil Contamination

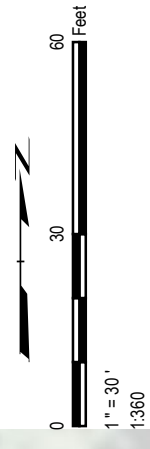


LEGEND

- TRC MONITORING WELL LOCATION (12/8/2010)
- TRC BORING/TEMPORARY MONITORING WELL LOCATION (8/20/2010)
- TRC SOIL SAMPLE LOCATION (PRE-REMEDIAL, 8/6/2010)
- TRC SOIL SAMPLE LOCATION (POST-REMEDIAL, 8/20/2010)
- NR 720 RCL EXCEEDANCE 0-8 FT. BGS (PRE-REMEDIAL, DASHED WHERE INFERRED)
- NR 720 RCL EXCEEDANCE 8-20 FT. BGS (PRE-REMEDIAL, DASHED WHERE INFERRED)
- APPROXIMATE PROPERTY BOUNDARIES

NOTES

1. R.O.W. AND STREET/STH DETAILS ARE TAKEN FROM THE EROSION CONTROL PLAN INCLUDED THE PLAN OF PROPOSED IMPROVEMENT WisDOT PROJECT ID# 6517-07-74, STH 76.
 2. PROPERTY BOUNDARIES ACQUIRED FROM OUTAGAMIE COUNTY INTERACTIVE GIS WEBSITE, LOCATIONS ARE APPROXIMATE.
- BGS = BELOW GROUND SURFACE



PROJECT:	WISDOT - STH 76 STEPHENSVILLE ID# 6517-07-74 BRRTS# 03-45-555892		
SHEET TITLE:	PRE-REMEDIAL SOIL CONTAMINATION		
DRAWN BY:	RHODE B	SCALE:	PROJ. NO. 005134.0000.0000
CHECKED BY:	VATER K	1:360	FILE NO. 63430218.mxd
APPROVED BY:	O'CONNELL T	DATE PRINTED:	FIGURE B.2.a
DATE:	JANUARY 2015		

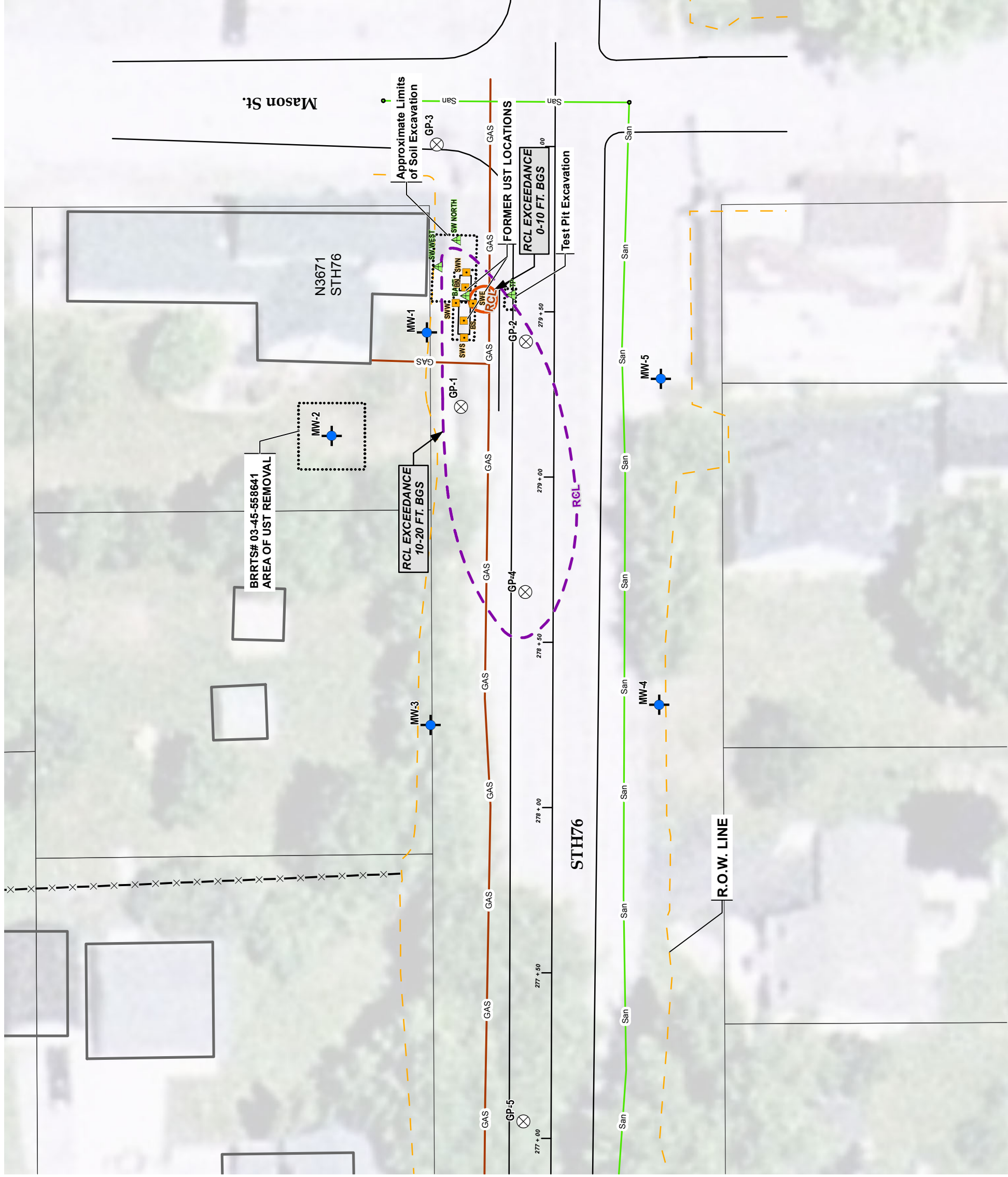


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Attachment B: Maps and Figures

Attachment B.2: Soil Figures

Attachment B.2.b: Post-remedial Soil Contamination

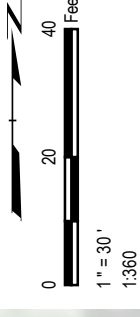


LEGEND

- TRC MONITORING WELL LOCATION (12/8/2010)
- TRC BORING/TEMPORARY MONITORING WELL LOCATION (8/20/2010)
- TRC SOIL SAMPLE LOCATION (PRE-REMEDIAL, 8/6/2010)
- TRC SOIL SAMPLE LOCATION (POST-REMEDIAL, 8/20/2010)
- NR 720 RCL EXCEEDANCE 0-10 FT. BGS (POST-REMEDIAL, DASHED WHERE INFERRED)
- NR 720 RCL EXCEEDANCE 10-20 FT. BGS (POST-REMEDIAL, DASHED WHERE INFERRED)
- APPROXIMATE PROPERTY BOUNDARIES

NOTES

1. R.O.W. AND STREET/STH DETAILS ARE TAKEN FROM THE EROSION CONTROL PLAN INCLUDED THE PLAN OF PROPOSED IMPROVEMENT WISDOT PROJECT ID# 6517-07-74, STH 76.
 2. PROPERTY BOUNDARIES ACQUIRED FROM OUTAGAMIE COUNTY INTERACTIVE GIS WEBSITE, LOCATIONS ARE APPROXIMATE.
 3. REMEDIAL SOIL EXCAVATION AS LIMITED TO THE EAST BY THE GAS UTILITY CORRIDOR.
- BGS = BELOW GROUND SURFACE



PROJECT: WISDOT - STH 76 STEPHENSVILLE		PROJ. NO. 005134.0000.0000
ID# 6517-07-74		FILE NO. 63430219.mxd
SHEET TITLE: POST-REMEDIAL SOIL CONTAMINATION		
BRRTS# 03-45-555892	SCALE: 1:360	DATE PRINTED: JANUARY 2015
DRAWN BY: RHOODE B	CHECKED BY: VATER K	APPROVED BY: O'CONNELL T
FIGURE B.2.b		

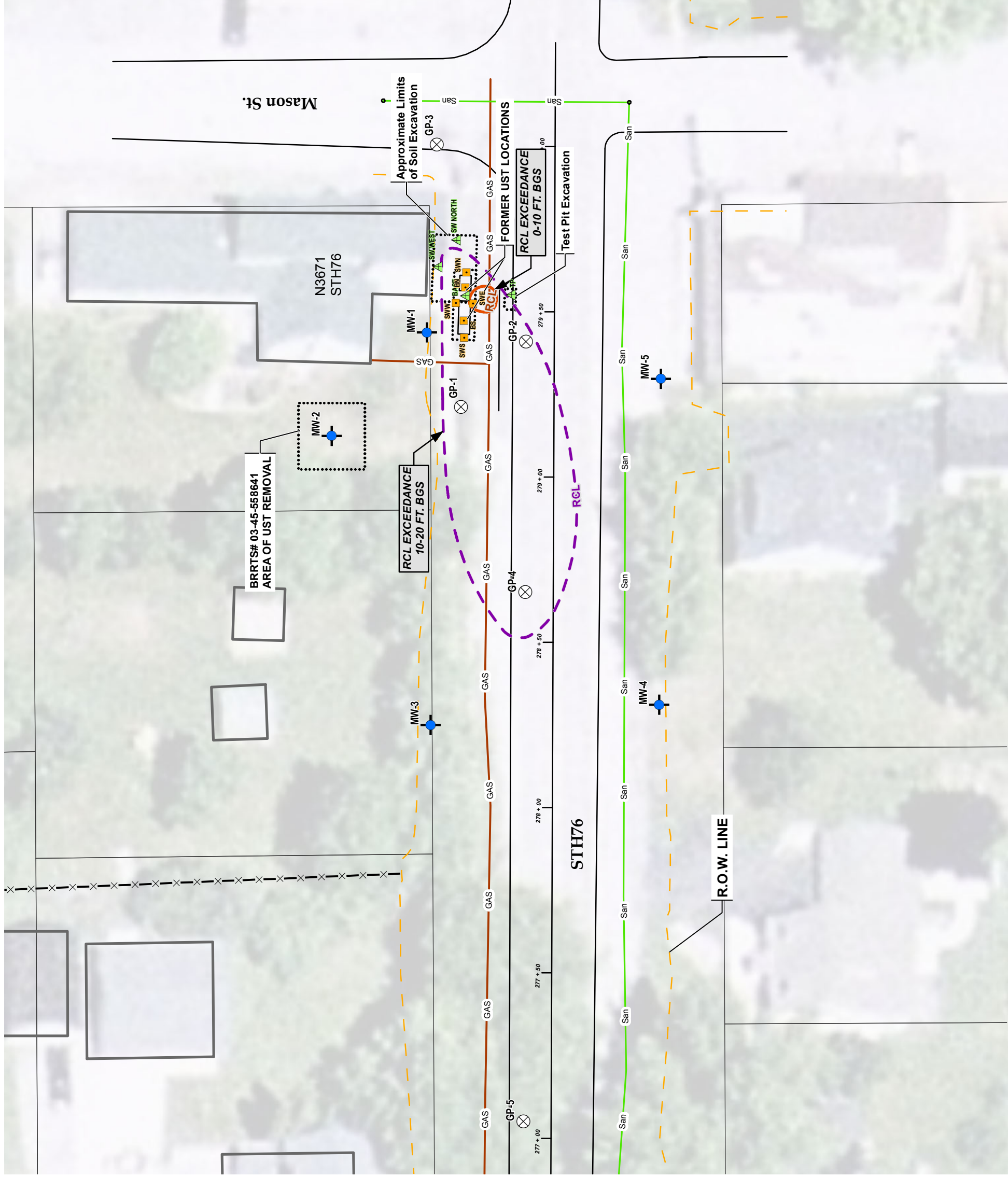


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Attachment B: Maps and Figures

Attachment B.2: Soil Figures

Attachment B.2.c: Pre/Post Remaining Soil Contamination



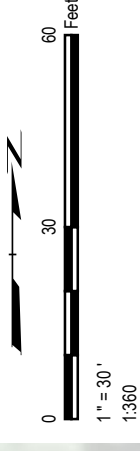
LEGEND

- TRC MONITORING WELL LOCATION (12/8/2010)
- TRC BORING/TEMPORARY MONITORING WELL LOCATION (8/20/2010)
- TRC SOIL SAMPLE LOCATION (PRE-REMEDIAL, 8/6/2010)
- TRC SOIL SAMPLE LOCATION (POST-REMEDIAL, 8/20/2010)
- NR 720 RCL EXCEEDANCE 0-10 FT. BGS (POST-REMEDIAL, DASHED WHERE INFERRED)
- NR 720 RCL EXCEEDANCE 10-20 FT. BGS (POST-REMEDIAL, DASHED WHERE INFERRED)
- APPROXIMATE PROPERTY BOUNDARIES

NOTES

1. R.O.W. AND STREET/STH DETAILS ARE TAKEN FROM THE EROSION CONTROL PLAN INCLUDED THE PLAN OF PROPOSED IMPROVEMENT WISDOT PROJECT ID# 6517-07-74, STH 76.
2. PROPERTY BOUNDARIES ACQUIRED FROM OUTAGAMIE COUNTY INTERACTIVE GIS WEBSITE, LOCATIONS ARE APPROXIMATE.
3. REMEDIAL SOIL EXCAVATION AS LIMITED TO THE EAST BY THE GAS UTILITY CORRIDOR.

BGS = BELOW GROUND SURFACE



PROJECT: WISDOT - STH 76 STEPHENSVILLE		PROJ. NO. 005134.0000.0000
ID# 6517-07-74		FILE NO. 63430223.mxd
BRRTS# 03-45-555892		
SHEET TITLE: REMAINING SOIL CONTAMINATION		
DRAWN BY: RHODE B	SCALE: 1:360	
CHECKED BY: VATER K		
APPROVED BY: O'CONNELL T	DATE PRINTED:	
DATE: JANUARY 2015		FIGURE B.2.C



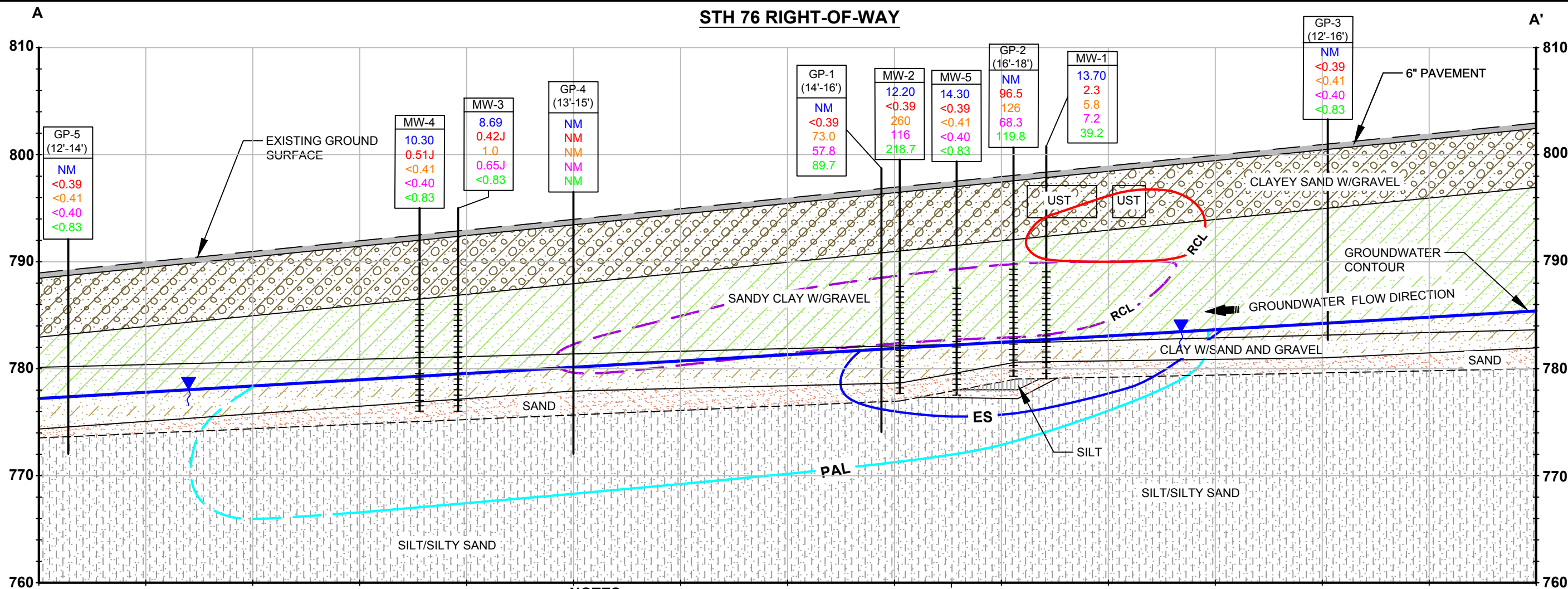
708 Highland Trail, Suite 3000
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Attachment B: Maps and Figures

Attachment B.3: Groundwater Figures

Attachment B.3.a: Geologic Cross-Section(s)

STH 76 RIGHT-OF-WAY

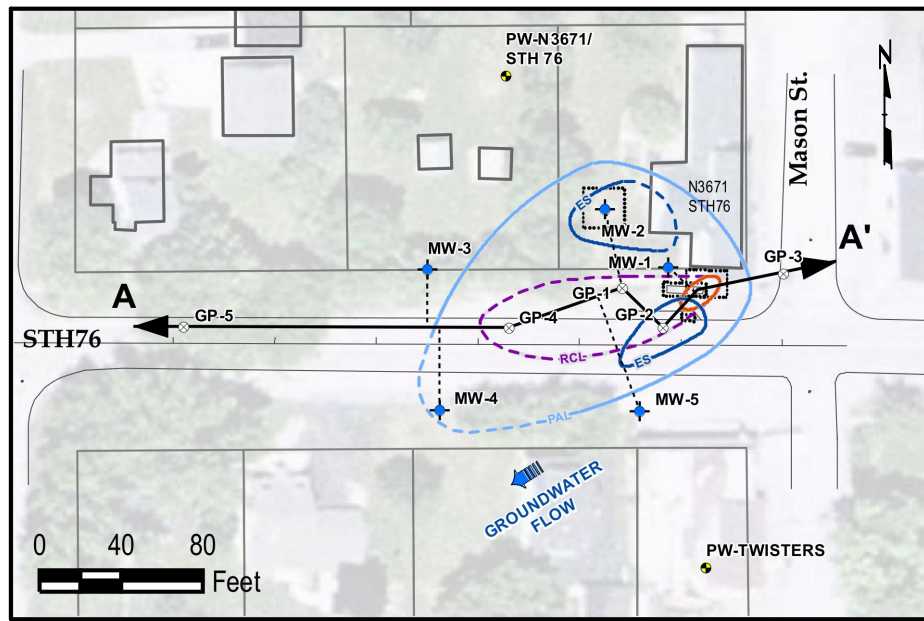


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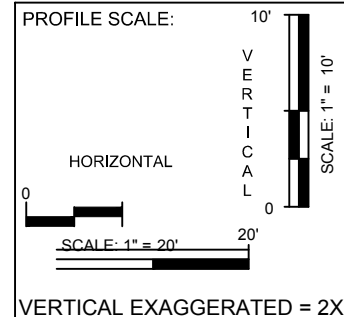
- GP-1, GP-2, GP-3, GP-4, GP-5 SAMPLED ON 8/20/2010, MW-1, MW-2, MW-3, MW-4, MW-5 SAMPLED ON 12/8/10. GROUNDWATER CONTOUR BASED ON GROUNDWATER ELEVATION DATA (12/8/10).
- EXISTING GROUND SURFACE DATA FROM WisDOT STH 76 OUTAGAMIE COUNTY PLAN AND PROFILE SHEET, PROJECT NO. 6517-07-74.
- MONITORING WELL SCREENED INTERVAL FROM 2010 WELL INSTALLATION FORMS.
- GROUNDWATER FLOW DIRECTION BASED ON DTW MONITORING (12/8/10 - 12/6/13).
- SOIL BORING GP-4 WAS FIELD SCREENED, BUT NO SOIL OR GROUNDWATER SAMPLES WERE COLLECTED. FIELD SCREENING INDICATED RESIDUAL SOIL CONTAMINATION AT GP-4 BY STAINING, ODORS, AND ELEVATED PID READINGS (>1000 PPM). FIELD SCREENING AT SOIL BORING GP-2 ALSO INDICATED RESIDUAL SOIL CONTAMINATION.
- GROUNDWATER CONTAMINATION IS COMMINGLED WITH IMPACTS FROM BRRTS# 03-45-558641 SIDE-GRADIENT AND DOWN-GRADIENT OF THE FORMER UST LOCATION.

LEGEND

- NR 140 ES EXCEEDANCE (PRE-REMEDIAL)
- NR 140 PAL EXCEEDANCE (PRE-REMEDIAL, DASHED WHERE INFERRED)
- NR 720 RCL EXCEEDANCE (PRE-REMEDIAL, DASHED WHERE INFERRED) (APPROX. 0-8 FT. BGS)
- NR 720 RCL EXCEEDANCE (PRE-REMEDIAL, DASHED WHERE INFERRED) (APPROX. 8-20 FT. BGS)
- (NM) NOT MEASURED
- (DTW) DEPTH TO WATER (FEET FROM TOC)
- GROUNDWATER TABLE (12/8/10)



CROSS SECTION LOCATOR



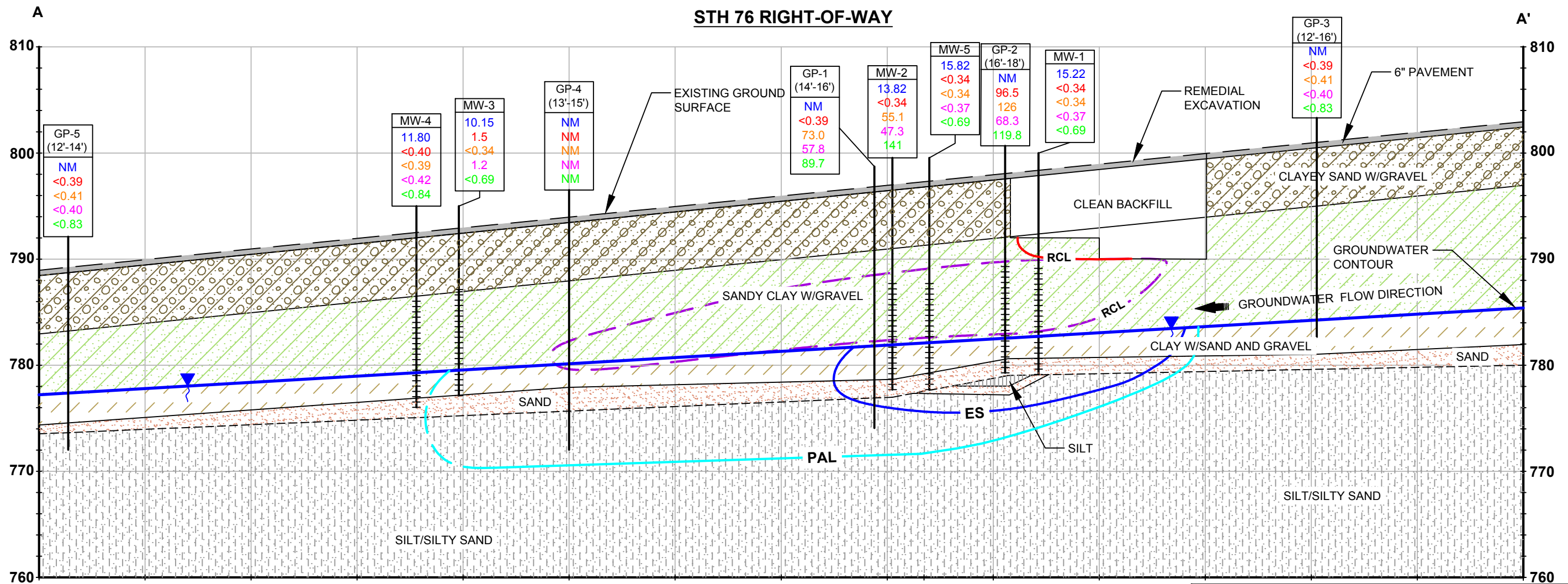
LABEL FORMAT

SAMPLE ID	SAMPLE DEPTH (FT. BGS)
DTW	
BENZENE (ug/L)	
ETHYLBENZENE (ug/L)	
NAPHTHALENE (ug/L)	
TRIMETHYLBENZENE (ug/L)	

PROJECT: WISDOT - STH 76 STEPHENSVILLE		
ID# 6517-07-74		
BRRTS# 03-45-55892		
TITLE: PRE-REMEDIAL CROSS-SECTION		
DRAWN BY: LSTORMER	SCALE: AS SHOWN	PROJ. NO. 005134.0000.000001
CHECKED BY: MO	TO	FILE NO. 5134.0000.01.03.dwg
APPROVED BY: TO	DATE PRINTED:	FIGURE B.3.a
DATE: JANUARY 2015		

708 Heartland Trail
Suite 3000
Madison, WI 53717
Phone: 608.826.3600

J:\WORK\0314\0000000001\01\01\000001.dwg
 Operator Name: LSTORMER, LARRY
 File Size: 0.07 Mb
 Plot Date: April 13, 2015
 Plot Time: 9:51 AM
 Attached Xrefs:
 Abstract Image:
 Layout: FIGURE B.3.a



NOTES:

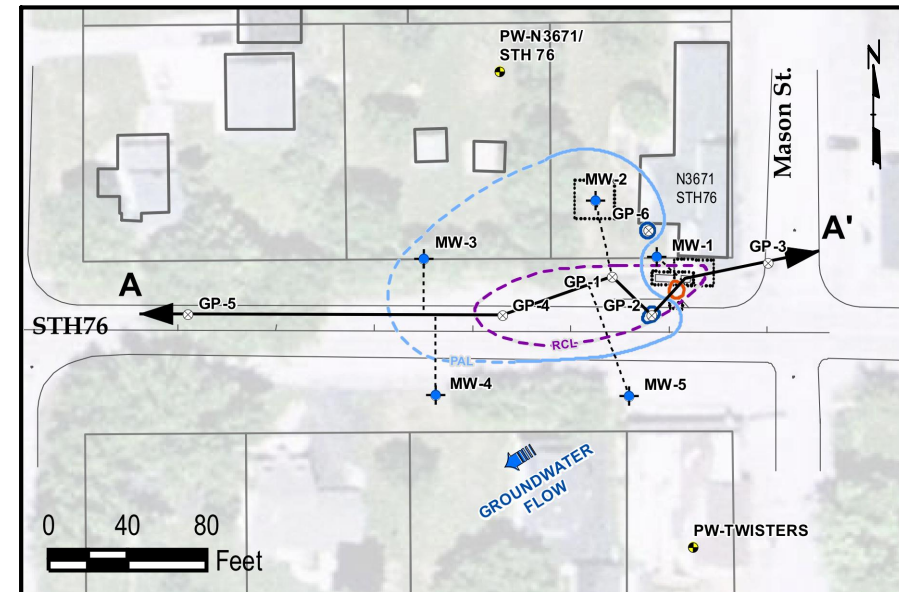
- SITE MONITORING WELLS MW-1, MW-2, MW-3, & MW-5 SAMPLED ON 12/6/13, MW-4 SAMPLED ON 3/20/15. GROUNDWATER CONTOUR BASED ON GROUNDWATER ELEVATION DATA (12/6/13).
- UST AREA WAS EXCAVATED TO 8' BELOW GROUND SURFACE ON 8/6/10 AND WAS OVER EXCAVATED TO 10' BELOW GROUND SURFACE ON 8/20/10. CLEAN BACKFILL AREA IS APPROXIMATE.
- EXISTING GROUND SURFACE DATA FROM WisDOT STH 76 OUTAGAMIE COUNTY PLAN AND PROFILE SHEET, PROJECT NO. 6517-07-74.
- MONITORING WELL SCREENED INTERVAL FROM 2010 WELL INSTALLATION FORMS.
- GROUNDWATER FLOW DIRECTION BASED ON DTW MONITORING (12/8/10 - 12/6/13).
- GP-1, GP-2, GP-3, GP-4, GP-5 SAMPLED ON 8/20/10. SOIL BORING GP-4 WAS SCREENED, BUT NO SOIL OR GROUNDWATER SAMPLES WERE COLLECTED.
- GROUNDWATER CONTAMINATION IS COMMINGLED WITH IMPACTS FROM BRRTS# 03-45-558641 SIDE-GRADIENT AND DOWN-GRADIENT OF THE FORMER UST LOCATION.
- SOIL BORING GP-4 WAS FIELD SCREENED, BUT NO SOIL OR GROUNDWATER SAMPLES WERE COLLECTED. FIELD SCREENING INDICATED RESIDUAL SOIL CONTAMINATION AT GP-4 BY STAINING, ODORS, AND ELEVATED PID READINGS (>1000 PPM). FIELD SCREENING AT SOIL BORING GP-2 ALSO INDICATED RESIDUAL SOIL CONTAMINATION.

LEGEND

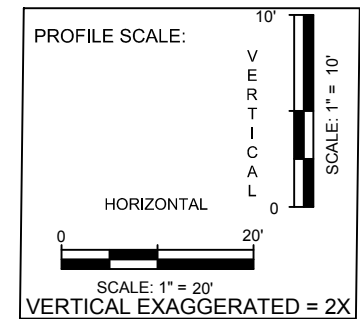
- NR 140 PAL EXCEEDANCE (POST-REMEDIAL, DASHED WHERE INFERRED)
- NR 720 RCL EXCEEDANCE (POST-REMEDIAL, DASHED WHERE INFERRED) (APPROX. 0-10 FT. BGS)
- NR 720 RCL EXCEEDANCE (POST-REMEDIAL, DASHED WHERE INFERRED) (APPROX. 10-20 FT. BGS)
- (NM) NOT MEASURED
- (DTW) DEPTH TO WATER (FEET FROM TOC)
- GROUNDWATER TABLE (12/6/13)

LABEL FORMAT

SAMPLE ID	SAMPLE DEPTH (FT. BGS)
DTW	
BENZENE (ug/L)	
ETHYLBENZENE (ug/L)	
NAPHTHALENE (ug/L)	
TRIMETHYLBENZENE (ug/L)	



CROSS SECTION LOCATOR



PROJECT: WISDOT - STH 76 STEPHENSVILLE		
ID# 6517-07-74		
BRRTS# 03-45-55892		
POST-REMEDIAL CROSS-SECTION		
DRAWN BY: LSTORMER	SCALE: AS SHOWN	PROJ. NO. 005134.0000.000001
CHECKED BY: MO	TO: DATE PRINTED:	FILE NO. 5134.0000.01.02.dwg
APPROVED BY:	TO:	FIGURE B.3.a
DATE: JANUARY 2015		

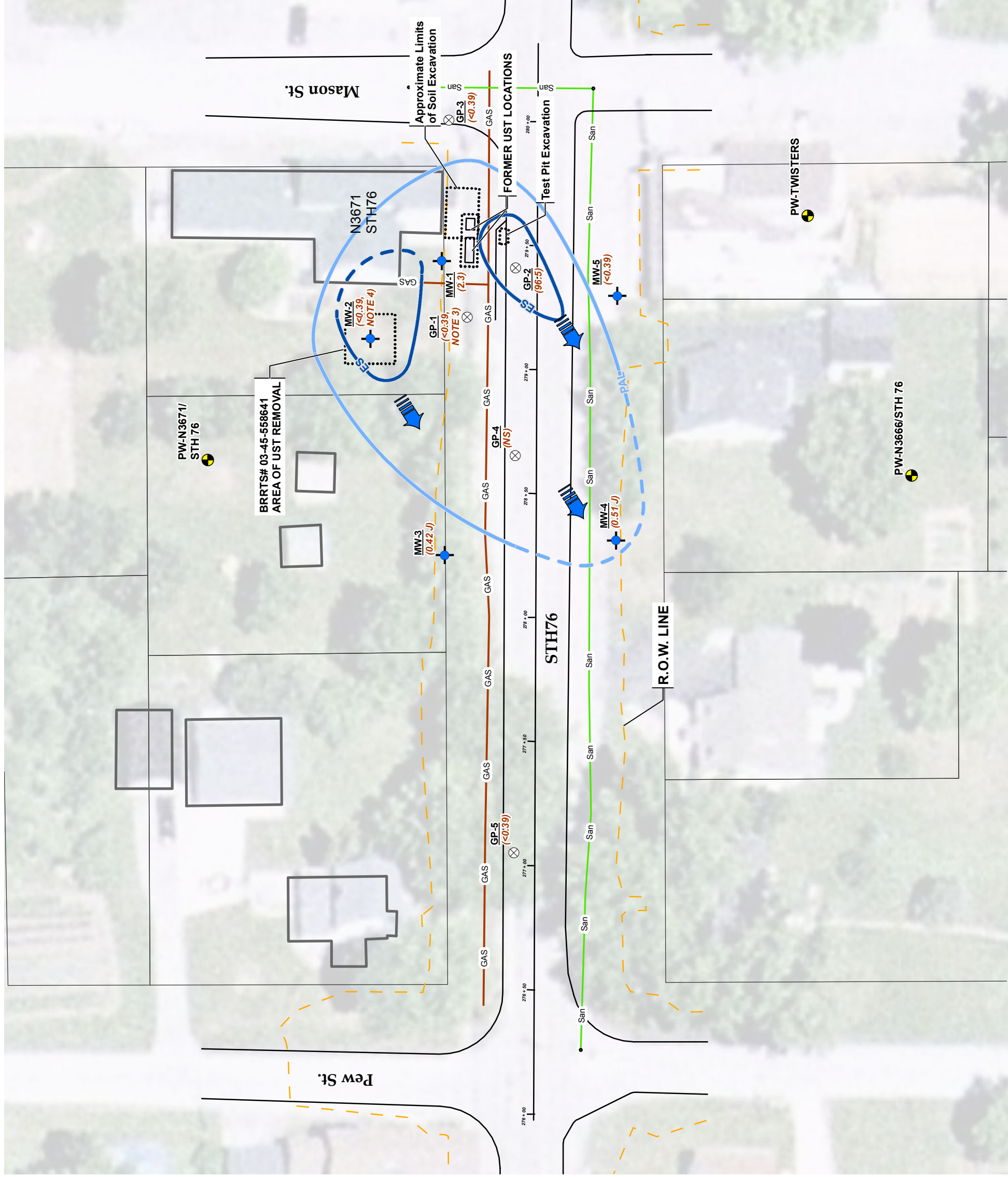
708 Heartland Trail
Suite 3000
Madison, WI 53717
Phone: 608.826.3600

J:\WORK\0314\0000000001\014\00001.02.dwg
 STORMER, LARRY
 11/17
 FIGURE B.3.a
 Layout

Attachment B: Maps and Figures

Attachment B.3: Groundwater Figures

Attachment B.3.b: Groundwater Isoconcentration

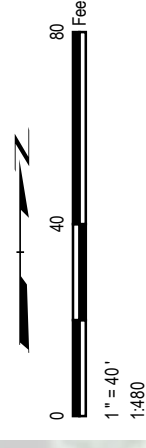


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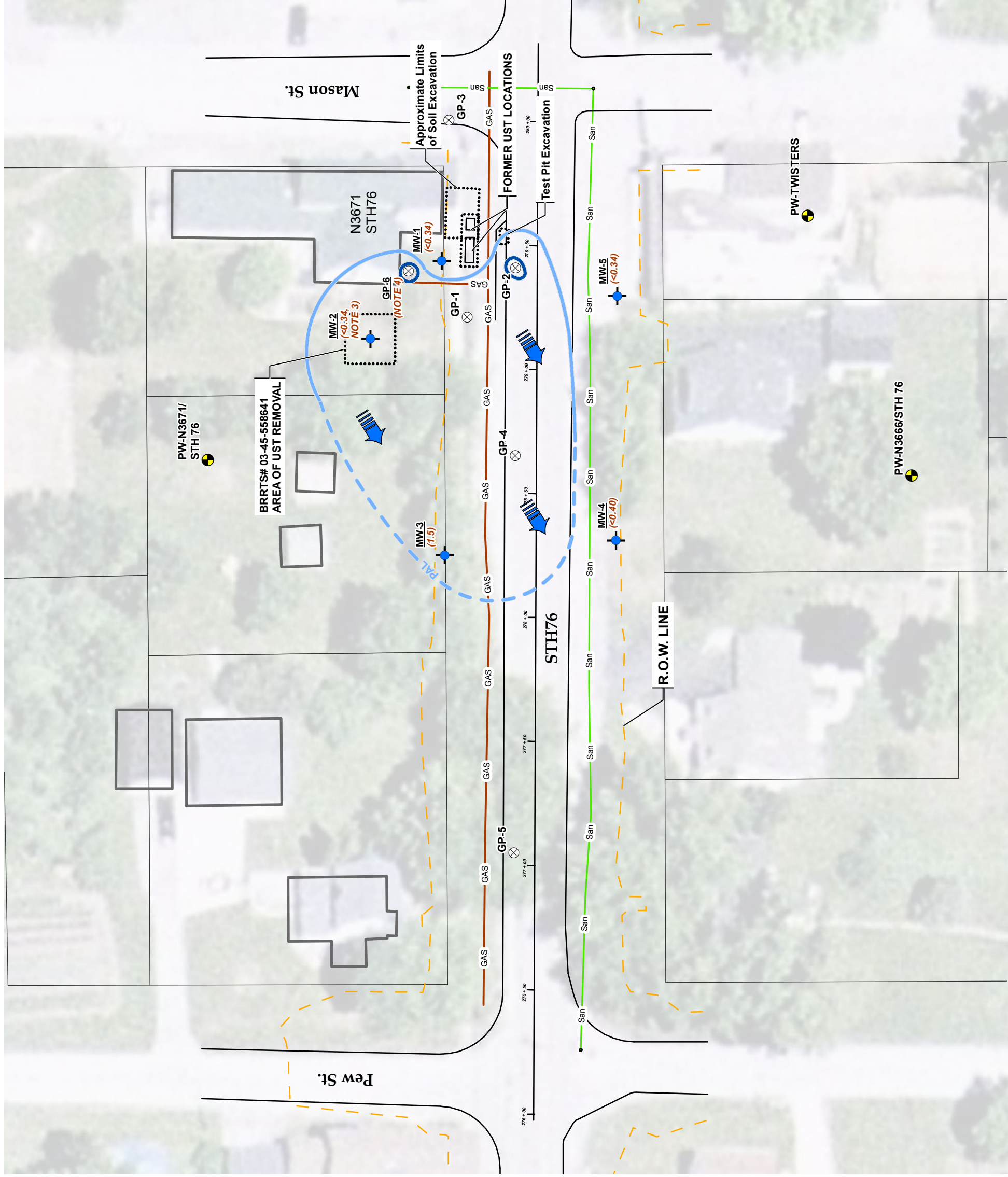
- TRC MONITORING WELL LOCATION (12/8/2010)
- PRIVATE WELL LOCATION
- TRC BORING/TEMPORARY MONITORING WELL LOCATION (8/20/2010)
- NR 140 ES EXCEEDANCE (DASHED WHERE INFERRED, 8/20/2010 & 12/8/2010)
- NR 140 PAL EXCEEDANCE (DASHED WHERE INFERRED, 8/20/2010 & 12/8/2010)
- GROUNDWATER FLOW DIRECTION
- APPROXIMATE PROPERTY BOUNDARIES
- NOT SAMPLED
- BENZENE CONCENTRATION (µg/L) (8/20/2010 or 12/8/2010)

NOTES

1. R.O.W. AND STREET/STH DETAILS ARE TAKEN FROM THE EROSION CONTROL PLAN INCLUDED THE PLAN OF PROPOSED IMPROVEMENT WisDOT PROJECT ID# 6517-07-74, STH 76.
2. PROPERTY BOUNDARIES ACQUIRED FROM OUTAGAMIE COUNTY INTERACTIVE GIS WEBSITE, LOCATIONS ARE APPROXIMATE.
3. GP-1 GROUNDWATER CONCENTRATION OF NAPHTHALENE WAS 57.8 µg/L.
4. MW-2 GROUNDWATER CONCENTRATION OF NAPHTHALENE WAS 116 µg/L, ETHYLBENZENE WAS 260 µg/L AND TRIMETHYLBENZENES WAS 218.7 µg/L.



PROJECT: WISDOT - STH 76 STEPHENSVILLE		PROJ. NO. 005134.0000.0000
ID# 6517-07-74		FILE NO. 63430220.mxd
BRRTS# 03-45-558892		
SHEET TITLE: 2010 PRE-REMEDIATION GROUNDWATER ISOCONCENTRATION		
DRAWN BY: RHODE B	SCALE: 1:480	
CHECKED BY: VATER K		
APPROVED BY: O'CONNELL T	DATE PRINTED: APRIL 2015	
		FIGURE B.3.b
708 Heartland Trail, Suite 3000 Madison, WI 53717 Phone: 608.826.3600 www.trcsolutions.com		

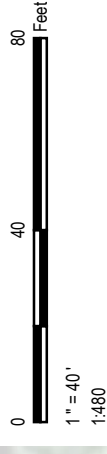


LEGEND

- TRC MONITORING WELL LOCATION (12/8/2010)
- PRIVATE WELL LOCATION
- TRC BORING/TEMPORARY MONITORING WELL LOCATION (8/20/2010)
- NR 140 ES EXCEEDANCE (DASHED WHERE INFERRED, 12/6/2013 & 3/20/2015)
- NR 140 PAL EXCEEDANCE (DASHED WHERE INFERRED, 12/6/2013 & 3/20/2015)
- GROUNDWATER FLOW DIRECTION
- APPROXIMATE PROPERTY BOUNDARIES
- BENZENE CONCENTRATION (µg/L) (12/6/2013, FOR MW-1, MW-2, MW-3, & MW-5 3/20/2015 FOR MW-4)

NOTES

1. R.O.W. AND STREET/STH DETAILS ARE TAKEN FROM THE EROSION CONTROL PLAN INCLUDED THE PLAN OF PROPOSED IMPROVEMENT WisDOT PROJECT ID# 6517-07-74, STH 76.
2. PROPERTY BOUNDARIES ACQUIRED FROM OUTAGAMIE COUNTY INTERACTIVE GIS WEBSITE, LOCATIONS ARE APPROXIMATE.
3. MW-2 GROUNDWATER CONCENTRATION OF NAPHTHALENE WAS 47.3 µg/L AND TRIMETHYLBENZENES WAS 141 µg/L.
4. BORING G-6 WAS INSTALLED AND GROUNDWATER WAS SAMPLED BY METCO ON AUGUST 5, 2013, ASSOCIATED WITH THE INVESTIGATION OF BRRTS# 03-45-558641.
5. GROUNDWATER CONTAMINATION IS CO-MINGLED WITH IMPACTS FROM BRRTS# 03-45-558641 SIDE GRADIENT AND DOWN GRADIENT OF THE FORMER UST LOCATIONS.



PROJECT: WISDOT - STH 76 STEPHENSVILLE		PROJ. NO. 005134.0000.0000
ID# 6517-07-74		FILE NO. 63430221.mxd
BRRTS# 03-45-555892		
2013 POST-REMEDIAL GROUNDWATER ISOCONCENTRATION		
SHEET TITLE:	RHODE B SCALE: 1:480	
DRAWN BY: VATER K	CHECKED BY: O'CONNELL T	DATE PRINTED: APRIL 2015
		FIGURE B.3.b



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WDNR Case Closure – GIS Registry Form 4400-202

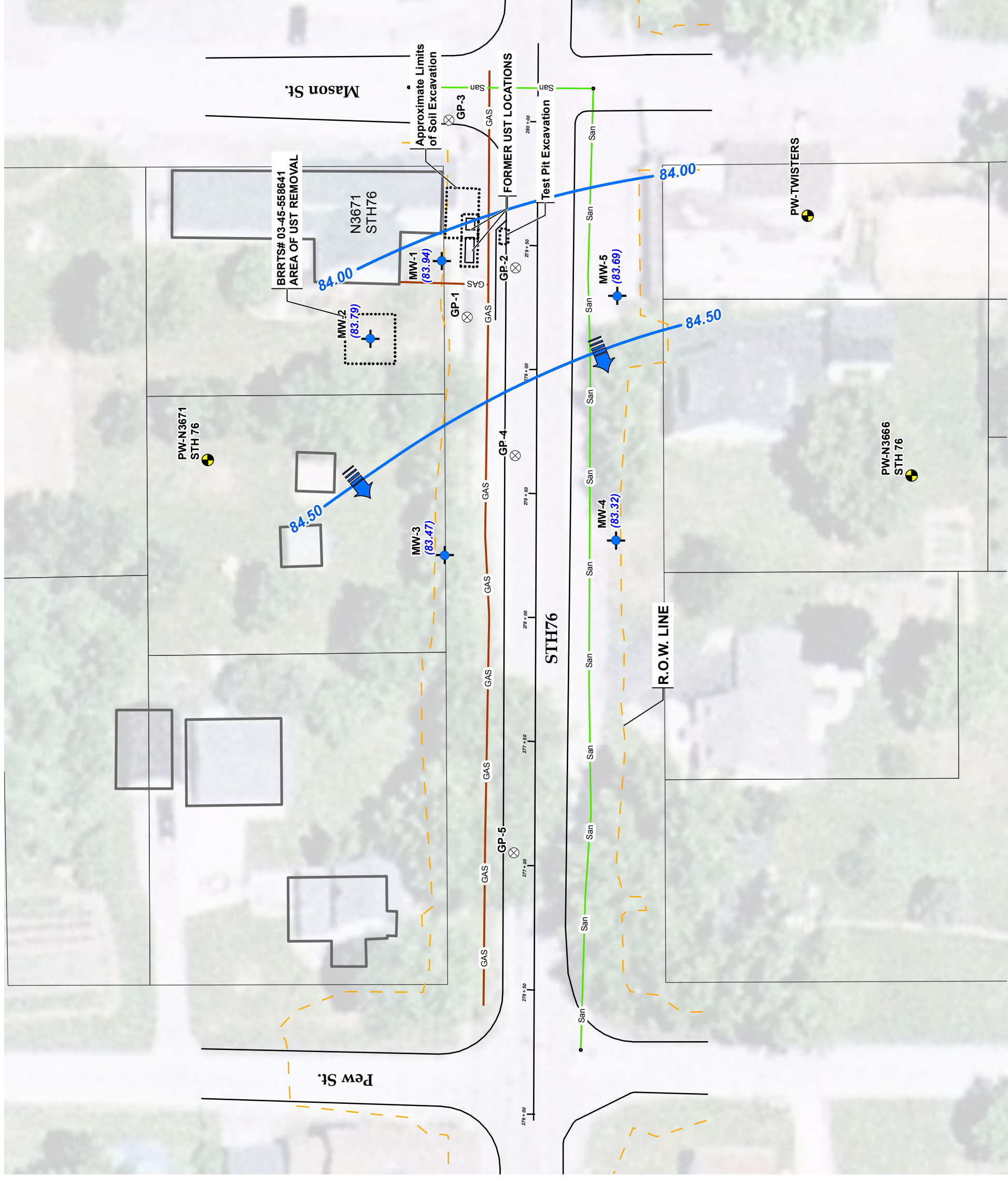
BRRTS #03-45-555892

BRRTS Activity Name: **White Property – WI DOT**

Attachment B: Maps and Figures

Attachment B.3: Groundwater Figures

Attachment B.3.c: Groundwater Flow Direction

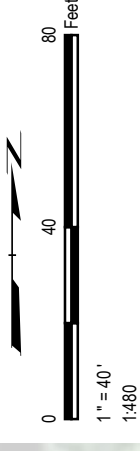


LEGEND

- TRC MONITORING WELL LOCATION (12/8/2010)
- PRIVATE WELL LOCATION (NO WATER LEVEL DATA)
- TRC BORING/TEMPORARY MONITORING WELL LOCATION (8/20/2010)
- WATER TABLE CONTOUR (CONTOUR INTERVAL 0.50 FEET)
- GROUNDWATER ELEVATION (85.15)
- GROUNDWATER FLOW DIRECTION
- APPROXIMATE PROPERTY BOUNDARIES

NOTES

1. GROUNDWATER ELEVATIONS ARE BASED ON RELATIVE WELL ELEVATIONS SET FROM A REFERENCE POINT IN THE FIELD AND ARE NOT BASED ON A DEFINED VERTICAL DATUM.
2. R.O.W. AND STREET/STH DETAILS ARE TAKEN FROM THE EROSION CONTROL PLAN INCLUDED THE PLAN OF PROPOSED IMPROVEMENT WisDOT PROJECT ID# 6617-07-74, STH 76.
3. PROPERTY BOUNDARIES ACQUIRED FROM OUTAGAMIE COUNTY INTERACTIVE GIS WEBSITE, LOCATIONS ARE APPROXIMATE.
4. GROUNDWATER ELEVATIONS WERE TAKEN ON MARCH 20, 2015.



PROJECT: WISDOT - STH 76 STEPHENSVILLE		PROJ. NO. 005134.0000.0000
ID# 6517-07-74		FILE NO. 63430224.mxd
BRRTS# 03-45-555892		
SHEET TITLE: GROUNDWATER TABLE MAP		
MARCH 2015		
DRAWN BY: RHODE B	SCALE: 1:480	
CHECKED BY: VATER K	DATE PRINTED:	
APPROVED BY: O'CONNELL T		
DATE: APRIL 2015		FIGURE B.3.C

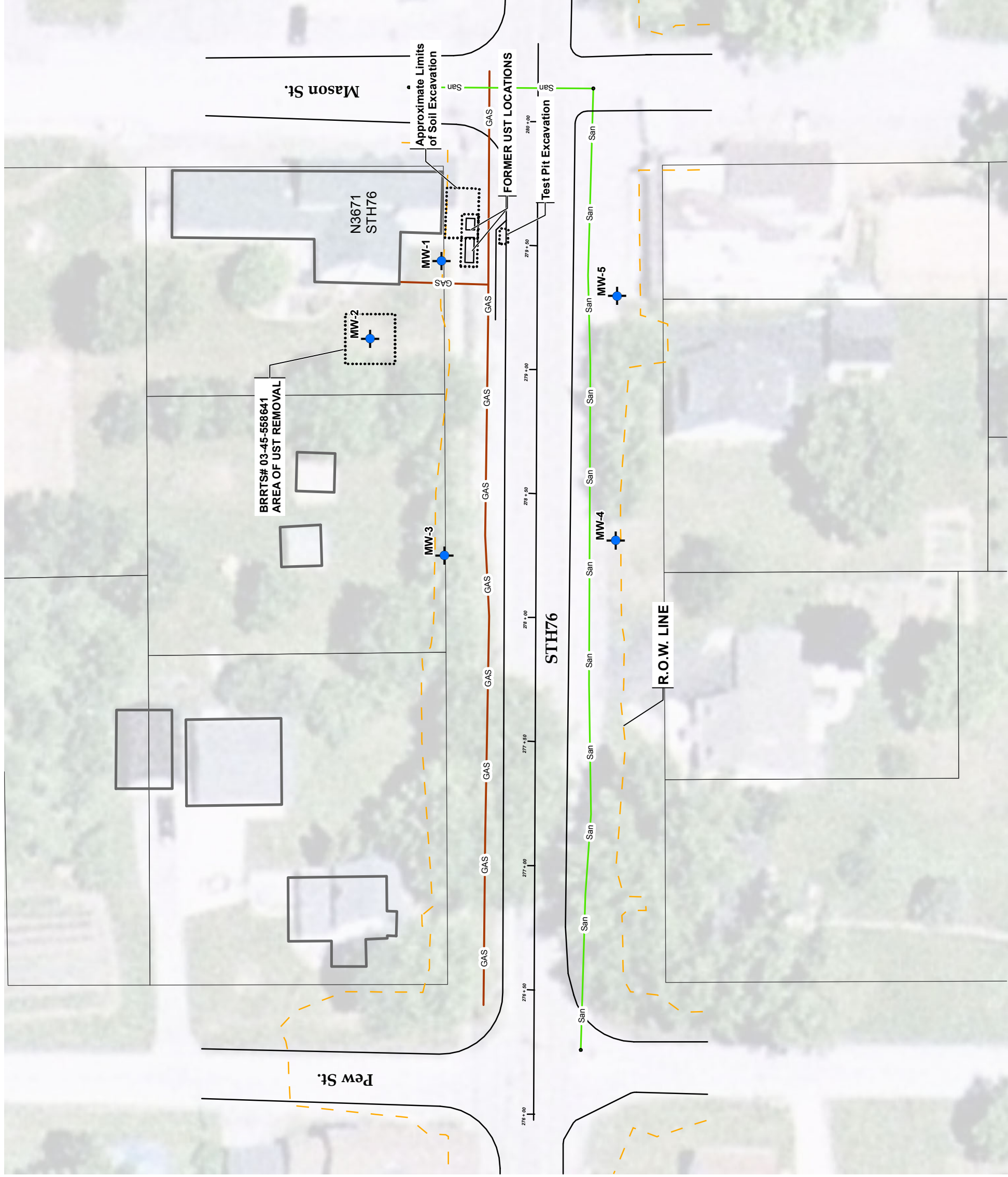


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Attachment B: Maps and Figures

Attachment B.3: Groundwater Figures

Attachment B.3.d: Monitoring Wells



LEGEND

-  TRC MONITORING WELL LOCATION- PROPOSED TO BE ABANDONED
-  APPROXIMATE PROPERTY BOUNDARIES

NOTES

1. R.O.W. AND STREET/STH DETAILS ARE TAKEN FROM THE EROSION CONTROL PLAN INCLUDED THE PLAN OF PROPOSED IMPROVEMENT WisDOT PROJECT ID#6517-07-74, STH 76.
2. PROPERTY BOUNDARIES ACQUIRED FROM OUTAGAMIE COUNTY INTERACTIVE GIS WEBSITE, LOCATIONS ARE APPROXIMATE.

PROJECT: WISDOT - STH 76 STEPHENSVILLE ID# 6517-07-74		PROJ. NO. 005134.0000.0000
SHEET TITLE: GROUNDWATER MONITORING WELL MAP		FILE NO. 63430217.mxd
DRAWN BY: RHODE B	SCALE: 1:480	
CHECKED BY: VATER K	DATE PRINTED: JANUARY 2015	
APPROVED BY: O'CONNELL T		FIGURE B.3.d



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Attachment B: Maps and Figures
Attachment B.4: Vapor Maps and Other Media

Attachment B.4.a: Vapor Intrusion Map



Not Included: Vapor was not sampled at the site. The vapor risk pathway evaluated to be incomplete.

Attachment B: Maps and Figures
Attachment B.4: Vapor Maps and Other Media

Attachment B.4.b: Other Media of Concern



Not Included: There are no other media of concern. There is no adjacent surface water or sediment.

Attachment B: Maps and Figures
Attachment B.4: Vapor Maps and Other Media

Attachment B.4.c: Other

Not Included: There are no other figures.

Attachment C: Documentation of Remedial Action

Attachment C.1: Site Investigation Documentation

Previously Submitted:

Underground Storage Tank Abandonment and Site Investigation and Remediation Report by RMT, Inc. on October 21, 2010.

Included:

- Monitoring Well Construction logs for MW-1, MW-2, MW-3, MW-4, and MW-5, all constructed December 8, 2010.
- Laboratory Analytical Data Reports for groundwater monitoring events conducted on: December 8, 2010, April 14, 2011, September 22, 2011, February 21, 2012, October 30, 2012, April 25, 2013, December 6, 2013, and March 20, 2015.

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

MONITORING WELL CONSTRUCTION
Form 4400-113A Rev. 7-98

Facility/Project Name WisDOT STH 76 (White Property)	Local Grid Location of Well _____ ft. <input type="checkbox"/> N. _____ ft. <input type="checkbox"/> E. _____ ft. <input type="checkbox"/> S. _____ ft. <input type="checkbox"/> W.	Well Name MW-1
Facility License, Permit or Monitoring No.	Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/>) or Well Location <input checked="" type="checkbox"/> Lat. _____ ° _____ ' _____ " Long. _____ ° _____ ' _____ " or	Wis. Unique Well No. _____ DNR Well Number _____
Facility ID	St. Plane <u>199,971</u> ft. N, <u>2,338,578</u> ft. E. S/C/N	Date Well Installed <u>12/08/2010</u>
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: (Person's Name and Firm) <u>Tony Kapugi</u>
Distance from Waste/Source ft. _____	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	Gov. Lot Number _____
Enf. Stds. Apply <input type="checkbox"/>		<u>On-site Environmental</u>

A. Protective pipe, top elevation _____ ft. Site
B. Well casing, top elevation _____ ft. Site
C. Land surface elevation _____ ft. Site
D. Surface seal, bottom _____ ft. Site or 0.5 ft.

12. USCS classification of soil near screen:
GP GM GC GW SW SP
SM SC ML MH CL CH
Bedrock

13. Sieve analysis attached? Yes No

14. Drilling method used: Rotary 5 0
Hollow Stem Auger 4 1
Other

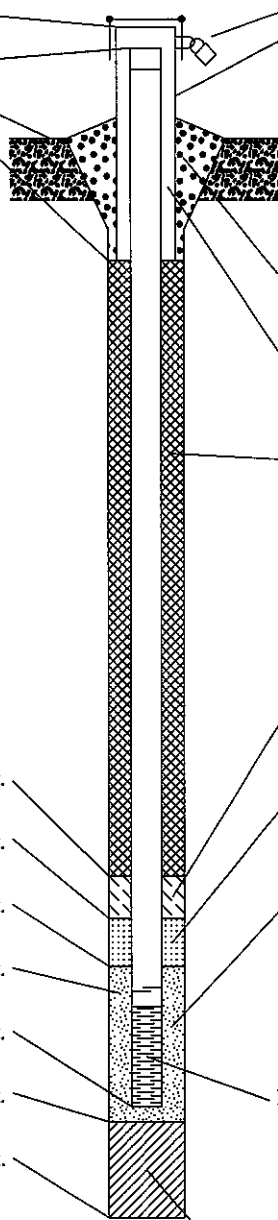
15. Drilling fluid used: Water 0 2 Air 0 1
Drilling Mud 0 3 None 9 9

16. Drilling additives used? Yes No

Describe _____

17. Source of water (attach analysis, if required):

E. Bentonite seal, top _____ ft. Site or 1.0 ft.
F. Fine sand, top _____ ft. Site or 5.2 ft.
G. Filter pack, top _____ ft. Site or 6.2 ft.
H. Screen joint, top _____ ft. Site or 9.2 ft.
I. Well bottom _____ ft. Site or 19.2 ft.
J. Filter pack, bottom _____ ft. Site or 20.0 ft.
K. Borehole, bottom _____ ft. Site or 20.0 ft.
L. Borehole, diameter 8.0 in.
M. O.D. well casing 2.38 in.
N. I.D. well casing 2.07 in.



1. Cap and lock? Yes No

2. Protective cover pipe:
a. Inside diameter: 8.0 in.
b. Length: 1.0 ft.
c. Material: Steel 0 4
Other

d. Additional protection? Yes No
If yes, describe: _____

3. Surface seal: Bentonite 3 0
Concrete 0 1
Other

4. Material between well casing and protective pipe:
Bentonite 3 0
Other

5. Annular space seal: a. Granular/Chipped Bentonite 3 3
b. _____ Lbs/gal mud weight . . . Bentonite-sand slurry 3 5
c. _____ Lbs/gal mud weight . . . Bentonite slurry 3 1
d. _____ % Bentonite . . . Bentonite-cement grout 5 0
e. 1.3 Ft³ volume added for any of the above
f. How installed: Tremie 0 1
Tremie pumped 0 2
Gravity 0 8

6. Bentonite seal: a. Bentonite granules 3 3
b. 1/4 in. 3/8 in. 1/2 in. Bentonite chips 3 2
c. _____ Other

7. Fine sand material: Manufacturer, product name & mesh size
a. _____
b. Volume added 0.3 ft³

8. Filter pack material: Manufacturer, product name & mesh size
a. Red Flint #40
b. Volume added 4.4 ft³

9. Well casing: Flush threaded PVC schedule 40 2 3
Flush threaded PVC schedule 80 2 4
Other

10. Screen material: PVC
a. Screen Type: Factory cut 1 1
Continuous slot 0 1
Other

b. Manufacturer _____
c. Slot size: 0.010 in.
d. Slotted length: 10.0 ft.

11. Backfill material (below filter pack): None 1 4
Other

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

Signature [Signature] Firm TRC Environmental Corporation Tel: 608.826.3600
708 Heartland Trail Madison WI 53717 Fax: 608.826.3941

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.

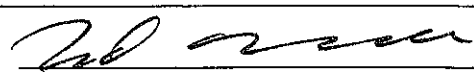
Route To: Watershed/Wastewater Waste Management
Remediation/Redevelopment Other

Facility/Project Name WisDOT STH 76 (White Property)	County Outagamie	Well Name MW-1	
Facility License, Permit or Monitoring Number	County Code 45	Wis. Unique Well Number	DNR Well Number

1. Can this well be purged dry? Yes No
2. Well development method:
- surged with bailer and bailed 4 1
 - surged with bailer and pumped 6 1
 - surged with block and bailed 4 2
 - surged with block and pumped 6 2
 - surged with block, bailed, and pumped 7 0
 - compressed air 2 0
 - bailed only 1 0
 - pumped only 5 1
 - pumped slowly 5 0
 - other _____ 6 0
3. Time spent developing well **30 min.**
4. Depth of well (from top of well casing) **19.2 ft.**
5. Inside diameter of well **2.07 in.**
6. Volume of water in filter pack and well casing **0.9 gal.**
7. Volume of water removed from well **7.5 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. 13.90 ft.	19.20 ft.
Date	b. 12/8/2013	12/8/2010
Time	c. 11:40 <input checked="" type="checkbox"/> a.m. <input type="checkbox"/> p.m.	12:10 <input type="checkbox"/> a.m. <input checked="" type="checkbox"/> p.m.
12. Sediment in well bottom	0.0 inches	0.0 inches
13. Water clarity	Clear <input type="checkbox"/> 1 0 Turbid <input checked="" type="checkbox"/> 1 5 (Describe) <u>light brown</u>	Clear <input type="checkbox"/> 2 0 Turbid <input checked="" type="checkbox"/> 2 5 (Describe) <u>clear</u>
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: Person's Name and Firm Ted O'Connell RMT, Inc.		

17. Additional comments on development:

Facility Address or Owner/Responsible Party Address	I hereby certify that the above information is true and correct to the best of my knowledge.
Name: <u>Kathy VanPrice</u>	Signature: 
Firm: <u>WisDOT</u>	Print Name: <u>Ted O'Connell</u>
Street: <u>944 Vanderperren Way</u>	Firm: <u>TRC Environmental Corporation</u>
City/State/Zip: <u>Green Bay, WI 54304</u>	

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

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

Facility/Project Name WisDOT STH 76 (White Property)	Local Grid Location of Well _____ ft. <input type="checkbox"/> N. _____ ft. <input type="checkbox"/> E. <input type="checkbox"/> S. _____ ft. <input type="checkbox"/> W.	Well Name MW-2
Facility License, Permit or Monitoring No.	Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/>) or Well Location <input checked="" type="checkbox"/> Lat. _____ " Long. _____ " or	Wis. Unique Well No. _____ DNR Well Number _____
Facility ID	St. Plane <u>199,939</u> ft. N, <u>2,338,550</u> ft. E. S/C/N	Date Well Installed 12/08/2010
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: (Person's Name and Firm) Tony Kapugi
Distance from Waste/Source ft. _____	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	Gov. Lot Number _____
Enf. Stds. Apply <input type="checkbox"/>		On-site Environmental

A. Protective pipe, top elevation _____ ft. Site		1. Cap and lock? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
B. Well casing, top elevation _____ ft. Site		2. Protective cover pipe: a. Inside diameter: <u>8.0</u> in. b. Length: <u>1.0</u> ft. c. Material: Steel <input checked="" type="checkbox"/> 04 Other <input type="checkbox"/>
C. Land surface elevation _____ ft. Site		d. Additional protection? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, describe: _____
D. Surface seal, bottom _____ ft. Site or <u>0.5</u> ft.		3. Surface seal: Bentonite <input type="checkbox"/> 30 Concrete <input checked="" 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 checked="" type="checkbox"/> SM <input checked="" 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 attached? <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. <u>1.3</u> 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. _____ b. Volume added <u>0.3</u> ft ³
16. Drilling additives used? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Describe _____		8. Filter pack material: Manufacturer, product name & mesh size a. <u>Red Flint #40</u> b. Volume added <u>4.4</u> ft ³
17. Source of water (attach analysis, if required): _____		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"/>
E. Bentonite seal, top _____ ft. Site or <u>1.0</u> ft.	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"/>	
F. Fine sand, top _____ ft. Site or <u>5.3</u> ft.	b. Manufacturer _____ c. Slot size: <u>0.010</u> in. d. Slotted length: <u>10.0</u> ft.	
G. Filter pack, top _____ ft. Site or <u>6.3</u> ft.	11. Backfill material (below filter pack): None <input checked="" type="checkbox"/> 14 Other <input type="checkbox"/>	
H. Screen joint, top _____ ft. Site or <u>9.3</u> ft.		
I. Well bottom _____ ft. Site or <u>19.3</u> ft.		
J. Filter pack, bottom _____ ft. Site or <u>20.0</u> ft.		
K. Borehole, bottom _____ ft. Site or <u>20.0</u> ft.		
L. Borehole, diameter <u>8.0</u> in.		
M. O.D. well casing <u>2.38</u> in.		
N. I.D. well casing <u>2.07</u> in.		

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

Signature Tony Kapugi Firm **TRC Environmental Corporation** Tel: 608.826.3600
708 Heartland Trail Madison WI 53717 Fax: 608.826.3941

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 WisDOT STH 76 (White Property)	County Outagamie	Well Name MW-2
Facility License, Permit or Monitoring Number	County Code 45	Wis. Unique Well Number
		DNR Well Number

1. Can this well be purged dry? Yes No

2. Well development method:
- surged with bailer and bailed 4 1
 - surged with bailer and pumped 6 1
 - surged with block and bailed 4 2
 - surged with block and pumped 6 2
 - surged with block, bailed, and pumped 7 0
 - compressed air 2 0
 - bailed only 1 0
 - pumped only 5 1
 - pumped slowly 5 0
 - other _____

3. Time spent developing well **15 min.**

4. Depth of well (from top of well casing) **19.3 ft.**

5. Inside diameter of well **2.07 in.**

6. Volume of water in filter pack and well casing **1.2 gal.**

7. Volume of water removed from well **12.0 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)

17. Additional comments on development:

	Before Development	After Development
11. Depth to Water (from top of well casing)	a. 12.10 ft.	14.90 ft.
Date	b. 12/8/2010	12/8/2010
Time	c. 11:05 <input checked="" type="checkbox"/> a.m. <input type="checkbox"/> p.m.	11:20 <input checked="" type="checkbox"/> a.m. <input type="checkbox"/> p.m.
12. Sediment in well bottom	0.0 inches	0.0 inches
13. Water clarity	Clear <input type="checkbox"/> 1 0 Turbid <input checked="" type="checkbox"/> 1 5 (Describe) brown	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: Person's Name and Firm

Ted O'Connell
RMT, Inc.

Facility Address or Owner/Responsible Party Address

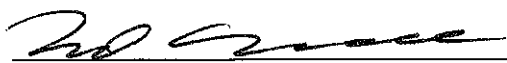
Name: **Kathy VanPrice**

Firm: **WisDOT**

Street: **944 Vanderperren Way**

City/State/Zip: **Green Bay, WI 54304**

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

Signature: 

Print Name: **Ted O'Connell**

Firm: **TRC Environmental Corporation**

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

Facility/Project Name WisDOT STH 76 (White Property)		Local Grid Location of Well _____ ft. <input type="checkbox"/> N. _____ ft. <input type="checkbox"/> E. _____ ft. <input type="checkbox"/> S. _____ ft. <input type="checkbox"/> W.		Well Name MW-3	
Facility License, Permit or Monitoring No.		Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/>) or Well Location <input checked="" type="checkbox"/>		Wis. Unique Well No. _____ DNR Well Number _____	
Facility ID		Lat. _____ ° _____ ' _____ " Long. _____ ° _____ ' _____ " or		Date Well Installed 12/08/2010	
Type of Well Well Code 11/mw		St. Plane 199,852 ft. N, 2,338,580 ft. E. S/C/N		Well Installed By: (Person's Name and Firm) Tony Kapugi	
Distance from Waste/Source _____ ft.		Section Location of Waste/Source _____ 1/4 of _____ 1/4 of Sec. _____, T. _____ N, R. _____ <input type="checkbox"/> E <input type="checkbox"/> W		On-site Environmental	
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		Gov. Lot Number _____	

<p>A. Protective pipe, top elevation _____ ft. Site</p> <p>B. Well casing, top elevation _____ ft. Site</p> <p>C. Land surface elevation _____ ft. Site</p> <p>D. Surface seal, bottom _____ ft. Site or <u>1.0</u> ft.</p> <div style="border: 1px solid black; padding: 5px; margin: 5px 0;"> <p>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 checked="" type="checkbox"/> SM <input checked="" 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"/></p> <p>13. Sieve analysis attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p> <p>14. Drilling method used: Rotary <input type="checkbox"/> 5 0 Hollow Stem Auger <input checked="" type="checkbox"/> 4 1 Other <input type="checkbox"/></p> <p>15. Drilling fluid used: Water <input type="checkbox"/> 0 2 Air <input type="checkbox"/> 0 1 Drilling Mud <input type="checkbox"/> 0 3 None <input checked="" type="checkbox"/> 9 9</p> <p>16. Drilling additives used? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p> <p>Describe _____</p> <p>17. Source of water (attach analysis, if required): _____</p> </div> <p>E. Bentonite seal, top _____ ft. Site or <u>1.0</u> ft.</p> <p>F. Fine sand, top _____ ft. Site or <u>3.6</u> ft.</p> <p>G. Filter pack, top _____ ft. Site or <u>4.6</u> ft.</p> <p>H. Screen joint, top _____ ft. Site or <u>6.6</u> ft.</p> <p>I. Well bottom _____ ft. Site or <u>16.6</u> ft.</p> <p>J. Filter pack, bottom _____ ft. Site or <u>17.0</u> ft.</p> <p>K. Borehole, bottom _____ ft. Site or <u>17.0</u> ft.</p> <p>L. Borehole, diameter <u>8.0</u> in.</p> <p>M. O.D. well casing <u>2.38</u> in.</p> <p>N. I.D. well casing <u>2.07</u> in.</p>		<p>1. Cap and lock? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>2. Protective cover pipe: a. Inside diameter: <u>8.0</u> in. b. Length: <u>1.0</u> ft. c. Material: Steel <input checked="" type="checkbox"/> 0 4 Other <input type="checkbox"/> d. Additional protection? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, describe: _____</p> <p>3. Surface seal: Bentonite <input type="checkbox"/> 3 0 Concrete <input checked="" type="checkbox"/> 0 1 Other <input type="checkbox"/></p> <p>4. Material between well casing and protective pipe: Bentonite <input checked="" type="checkbox"/> 3 0 Other <input type="checkbox"/></p> <p>5. Annular space seal: a. Granular/Chipped Bentonite <input checked="" type="checkbox"/> 3 3 b. _____ Lbs/gal mud weight ... Bentonite-sand slurry <input type="checkbox"/> 3 5 c. _____ Lbs/gal mud weight ... Bentonite slurry <input type="checkbox"/> 3 1 d. _____ % Bentonite ... Bentonite-cement grout <input type="checkbox"/> 5 0 e. <u>0.8</u> Ft³ volume added for any of the above f. How installed: Tremie <input type="checkbox"/> 0 1 Tremie pumped <input type="checkbox"/> 0 2 Gravity <input checked="" type="checkbox"/> 0 8</p> <p>6. Bentonite seal: a. Bentonite granules <input type="checkbox"/> 3 3 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"/> 3 2 c. _____ Other <input type="checkbox"/></p> <p>7. Fine sand material: Manufacturer, product name & mesh size a. _____ b. Volume added <u>0.3</u> ft³</p> <p>8. Filter pack material: Manufacturer, product name & mesh size a. <u>Red Flint #40</u> b. Volume added <u>3.9</u> ft³</p> <p>9. Well casing: Flush threaded PVC schedule 40 <input checked="" type="checkbox"/> 2 3 Flush threaded PVC schedule 80 <input type="checkbox"/> 2 4 Other <input type="checkbox"/></p> <p>10. Screen material: <u>PVC</u> a. Screen Type: Factory cut <input checked="" type="checkbox"/> 1 1 Continuous slot <input type="checkbox"/> 0 1 Other <input type="checkbox"/> b. Manufacturer _____ c. Slot size: <u>0.010</u> in. d. Slotted length: <u>10.0</u> ft.</p> <p>11. Backfill material (below filter pack): None <input checked="" type="checkbox"/> 1 4 Other <input type="checkbox"/></p>
---	--	---

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

Signature [Signature] Firm TRC Environmental Corporation Tel: 608.826.3600
 708 Heartland Trail Madison WI 53717 Fax: 608.826.3941

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 WisDOT STH 76 (White Property)	County Outagamie	Well Name MW-3
Facility License, Permit or Monitoring Number	County Code 45	Wis. Unique Well Number
		DNR Well Number

1. Can this well be purged dry? Yes No

2. Well development method:
- surged with bailer and bailed 4 1
 - surged with bailer and pumped 6 1
 - surged with block and bailed 4 2
 - surged with block and pumped 6 2
 - surged with block, bailed, and pumped 7 0
 - compressed air 2 0
 - bailed only 1 0
 - pumped only 5 1
 - pumped slowly 5 0
 - other _____

3. Time spent developing well **15 min.**

4. Depth of well (from top of well casing) **16.4 ft.**

5. Inside diameter of well **2.07 in.**

6. Volume of water in filter pack and well casing **1.3 gal.**

7. Volume of water removed from well **13.0 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)

17. Additional comments on development:

	Before Development	After Development
11. Depth to Water (from top of well casing)	a. 8.70 ft.	10.60 ft.
Date	b. 12/8/2010	12/8/2010
Time	c. 10:45 <input checked="" type="checkbox"/> a.m. <input type="checkbox"/> p.m.	11:00 <input checked="" type="checkbox"/> a.m. <input type="checkbox"/> p.m.
12. Sediment in well bottom	0.0 inches	0.0 inches
13. Water clarity	Clear <input type="checkbox"/> 1 0 Turbid <input checked="" type="checkbox"/> 1 5 (Describe) brown	Clear <input checked="" type="checkbox"/> 2 0 Turbid <input type="checkbox"/> 2 5 (Describe) light brown/clear

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: Person's Name and Firm

Ted O'Connell
RMT, Inc.

Facility Address or Owner/Responsible Party Address

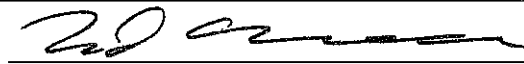
Name: Kathy VanPrice

Firm: WisDOT

Street: 944 Vanderperren Way

City/State/Zip: Green Bay, WI 54304

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

Signature: 

Print Name: Ted O'Connell

Firm: TRC Environmental Corporation

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

Facility/Project Name WisDOT STH 76 (White Property)	Local Grid Location of Well _____ ft. <input type="checkbox"/> N. _____ ft. <input type="checkbox"/> E. <input type="checkbox"/> S. _____ ft. <input type="checkbox"/> W.	Well Name MW-4
Facility License, Permit or Monitoring No.	Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/>) or Well Location <input checked="" type="checkbox"/> Lat. _____ " Long. _____ " or	Wis. Unique Well No. _____ DNR Well Number _____
Facility ID	St. Plane <u>199,858</u> ft. N, <u>2,338,648</u> ft. E. S/C/N	Date Well Installed 12/08/2010
Type of Well Well Code 11/mw	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: (Person's Name and Firm) Tony Kapugi
Distance from Waste/Source ft. <input type="checkbox"/> 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	Gov. Lot Number _____
On-site Environmental		

A. Protective pipe, top elevation _____ ft. Site

B. Well casing, top elevation _____ ft. Site

C. Land surface elevation _____ ft. Site

D. Surface seal, bottom _____ ft. Site or 1.0 ft.

12. USCS classification of soil near screen:
GP GM GC GW SW SP
SM SC ML MH CL CH
Bedrock

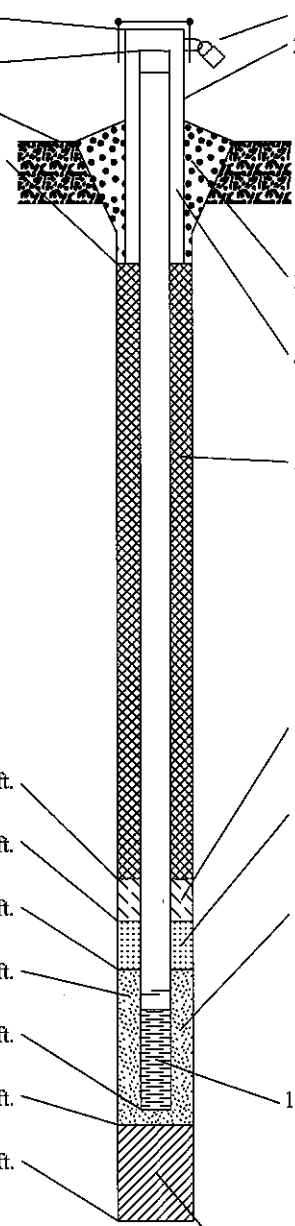
13. Sieve analysis attached? Yes No

14. Drilling method used: Rotary 5 0
Hollow Stem Auger 4 1
Other

15. Drilling fluid used: Water 0 2 Air 0 1
Drilling Mud 0 3 None 9 9

16. Drilling additives used? Yes No
Describe _____

17. Source of water (attach analysis, if required):



1. Cap and lock? Yes No

2. Protective cover pipe:
a. Inside diameter: 8.0 in.
b. Length: 1.0 ft.
c. Material: Steel 0 4
Other

d. Additional protection? Yes No
If yes, describe: _____

3. Surface seal: Bentonite 3 0
Concrete 0 1
Other

4. Material between well casing and protective pipe: Bentonite 3 0
Other

5. Annular space seal: a. Granular/Chipped Bentonite 3 3
b. _____ Lbs/gal mud weight . . . Bentonite-sand slurry 3 5
c. _____ Lbs/gal mud weight . . . Bentonite slurry 3 1
d. _____ % Bentonite . . . Bentonite-cement grout 5 0
e. 0.8 Ft³ volume added for any of the above
f. How installed: Tremie 0 1
Tremie pumped 0 2
Gravity 0 8

6. Bentonite seal: a. Bentonite granules 3 3
b. 1/4 in. 3/8 in. 1/2 in. Bentonite chips 3 2
c. _____ Other

7. Fine sand material: Manufacturer, product name & mesh size
a. _____
b. Volume added 0.3 ft³

8. Filter pack material: Manufacturer, product name & mesh size
a. Red Flint #40
b. Volume added 3.9 ft³

9. Well casing: Flush threaded PVC schedule 40 2 3
Flush threaded PVC schedule 80 2 4
Other

10. Screen material: PVC
a. Screen Type: Factory cut 1 1
Continuous slot 0 1
Other

b. Manufacturer _____
c. Slot size: 0.010 in.
d. Slotted length: 10.0 ft.

11. Backfill material (below filter pack): None 1 4
Other

E. Bentonite seal, top _____ ft. Site or 1.0 ft.

F. Fine sand, top _____ ft. Site or 3.5 ft.

G. Filter pack, top _____ ft. Site or 4.5 ft.

H. Screen joint, top _____ ft. Site or 6.5 ft.

I. Well bottom _____ ft. Site or 16.5 ft.

J. Filter pack, bottom _____ ft. Site or 17.0 ft.

K. Borehole, bottom _____ ft. Site or 17.0 ft.

L. Borehole, diameter 8.0 in.

M. O.D. well casing 2.38 in.

N. I.D. well casing 2.07 in.

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

Signature [Signature] Firm **TRC Environmental Corporation** Tel: 608.826.3600
708 Heartland Trail Madison WI 53717 Fax: 608.826.3941

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 WisDOT STH 76 (White Property)	County Outagamie	Well Name MW-4	
Facility License, Permit or Monitoring Number	County Code 45	Wis. Unique Well Number	DNR Well Number

1. Can this well be purged dry? Yes No

2. Well development method:

- surged with bailer and bailed 4 1
- surged with bailer and pumped 6 1
- surged with block and bailed 4 2
- surged with block and pumped 6 2
- surged with block, bailed, and pumped 7 0
- compressed air 2 0
- bailed only 1 0
- pumped only 5 1
- pumped slowly 5 0
- other _____ _____

3. Time spent developing well **15 min.**

4. Depth of well (from top of well casing) **16.5 ft.**

5. Inside diameter of well **2.07 in.**

6. Volume of water in filter pack and well casing **1.0 gal.**

7. Volume of water removed from well **10.0 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. 10.30 ft.	12.33 ft.
Date	b. 12/8/2010	12/8/2010
Time	c. 10:00 <input checked="" type="checkbox"/> a.m. <input type="checkbox"/> p.m.	10:15 <input checked="" type="checkbox"/> a.m. <input type="checkbox"/> p.m.
12. Sediment in well bottom	0.0 inches	0.0 inches
13. Water clarity	Clear <input type="checkbox"/> 1 0 Turbid <input checked="" type="checkbox"/> 1 5 (Describe) brown	Clear <input type="checkbox"/> 2 0 Turbid <input checked="" type="checkbox"/> 2 5 (Describe) light brown

Fill in if drilling fluids were used and well is at solid waste facility:

14. Total suspended solids **mg/l**

15. COD **mg/l**

16. Well developed by: Person's Name and Firm
Ted O'Connell
RMT, Inc.

17. Additional comments on development:

Facility Address or Owner/Responsible Party Address

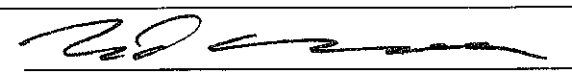
Name: **Kathy VanPrice**

Firm: **WisDOT**

Street: **944 Vanderperren Way**

City/State/Zip: **Green Bay, WI 54304**

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

Signature: 

Print Name: **Ted O'Connell**

Firm: **TRC Environmental Corporation**

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

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

Facility/Project Name WisDOT STH 76 (White Property)		Local Grid Location of Well _____ ft. <input type="checkbox"/> N. _____ ft. <input type="checkbox"/> E. _____ ft. <input type="checkbox"/> S. _____ ft. <input type="checkbox"/> W.		Well Name MW-5	
Facility License, Permit or Monitoring No.		Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/>) or Well Location <input checked="" type="checkbox"/>		Wis. Unique Well No. DNR Well Number	
Facility ID		Lat. _____ ° _____ ' _____ " Long. _____ ° _____ ' _____ " or		Date Well Installed 12/08/2010	
Type of Well Well Code 11/mw		St. Plane 199,957 ft. N, 2,338,649 ft. E. S/C/N		Well Installed By: (Person's Name and Firm) Tony Kapugi	
Distance from Waste/Source ft. _____		Section Location of Waste/Source _____ 1/4 of _____ 1/4 of Sec. _____, T. _____ N, R. _____ <input type="checkbox"/> E <input type="checkbox"/> W		On-site Environmental	
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		Gov. Lot Number _____	

A. Protective pipe, top elevation _____ ft. Site		1. Cap and lock? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
B. Well casing, top elevation _____ ft. Site		2. Protective cover pipe: a. Inside diameter: _____ 8.0 in. b. Length: _____ 1.0 ft. c. Material: Steel <input checked="" type="checkbox"/> 04 Other <input type="checkbox"/>
C. Land surface elevation _____ ft. Site		d. Additional protection? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, describe: _____
D. Surface seal, bottom _____ ft. Site or _____ 1.0 ft.		3. Surface seal: Bentonite <input type="checkbox"/> 30 Concrete <input checked="" 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 checked="" type="checkbox"/> SM <input checked="" 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 attached? <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. _____ 1.3 Ft ³ volume added for any of the above
14. Drilling method used: Rotary <input type="checkbox"/> 50 Hollow Stem Auger <input checked="" type="checkbox"/> 41 Other <input type="checkbox"/>		f. How installed: Tremie <input type="checkbox"/> 01 Tremie pumped <input type="checkbox"/> 02 Gravity <input checked="" type="checkbox"/> 08
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		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"/>
16. Drilling additives used? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		7. Fine sand material: Manufacturer, product name & mesh size a. _____ b. Volume added _____ 0.3 ft ³
Describe _____		8. Filter pack material: Manufacturer, product name & mesh size a. _____ Red Flint #40 b. Volume added _____ 4.4 ft ³
17. Source of water (attach analysis, if required): _____	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"/>	
E. Bentonite seal, top _____ ft. Site or _____ 1.0 ft.	10. Screen material: _____ PVC a. Screen Type: Factory cut <input checked="" type="checkbox"/> 11 Continuous slot <input type="checkbox"/> 01 Other <input type="checkbox"/>	
F. Fine sand, top _____ ft. Site or _____ 5.5 ft.	b. Manufacturer _____ c. Slot size: _____ 0.010 in. d. Slotted length: _____ 10.0 ft.	
G. Filter pack, top _____ ft. Site or _____ 6.6 ft.	11. Backfill material (below filter pack): None <input checked="" type="checkbox"/> 14 Other <input type="checkbox"/>	
H. Screen joint, top _____ ft. Site or _____ 9.6 ft.		
I. Well bottom _____ ft. Site or _____ 19.6 ft.		
J. Filter pack, bottom _____ ft. Site or _____ 20.0 ft.		
K. Borehole, bottom _____ ft. Site or _____ 20.0 ft.		
L. Borehole, diameter _____ 8.0 in.		
M. O.D. well casing _____ 2.38 in.		
N. I.D. well casing _____ 2.07 in.		

I hereby certify that the information on this form is true and correct to the best of my knowledge.
Signature _____ Firm **TRC Environmental Corporation** Tel: 608.826.3600
708 Heartland Trail Madison WI 53717 Fax: 608.826.3941

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 WisDOT STH 76 (White Property)	County Outagamie	Well Name MW-5	
Facility License, Permit or Monitoring Number	County Code 45	Wis. Unique Well Number	DNR Well Number

1. Can this well be purged dry? Yes No

2. Well development method:

surged with bailer and bailed	<input 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 checked="" type="checkbox"/> 5 1
pumped slowly	<input type="checkbox"/> 5 0
other _____	<input type="checkbox"/> _____

3. Time spent developing well **15 min.**

4. Depth of well (from top of well casing) **19.6 ft.**

5. Inside diameter of well **2.07 in.**

6. Volume of water in filter pack and well casing **0.9 gal.**

7. Volume of water removed from well **5.0 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. 14.14 ft.	19.60 ft.
Date	b. 12/8/2010	12/8/2010
Time	c. 10:20 <input checked="" type="checkbox"/> a.m. <input type="checkbox"/> p.m.	10:35 <input checked="" type="checkbox"/> a.m. <input type="checkbox"/> p.m.
12. Sediment in well bottom	0.0 inches	0.0 inches
13. Water clarity	Clear <input type="checkbox"/> 1 0 Turbid <input checked="" type="checkbox"/> 1 5 (Describe) <u>brown</u>	Clear <input type="checkbox"/> 2 0 Turbid <input checked="" type="checkbox"/> 2 5 (Describe) <u>slight turbidity; light brown</u>
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: Person's Name and Firm Ted O'Connell RMT, Inc.		

17. Additional comments on development:

Facility Address or Owner/Responsible Party Address

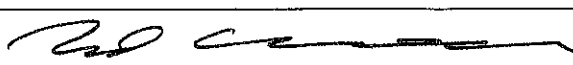
Name: Kathy VanPrice

Firm: WisDOT

Street: 944 Vanderperren Way

City/State/Zip: Green Bay, WI 54304

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

Signature: 

Print Name: Ted O'Connell

Firm: TRC Environmental Corporation

December 16, 2010

DAN HAAK
RMT MADISON
744 HEARTLAND TRAIL
Madison, WI 537171934

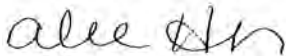
RE: Project: 06343.01.001 WISDOT-STH 76
Pace Project No.: 4040630

Dear DAN HAAK:

Enclosed are the analytical results for sample(s) received by the laboratory on December 10, 2010. The results relate only to the samples included in this report. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

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

Sincerely,



Alee Her

alee.her@pacelabs.com
Project Manager

Enclosures

cc: TED O'CONNELL, RMT MADISON

REPORT OF LABORATORY ANALYSIS

Page 1 of 17

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CERTIFICATIONS

Project: 06343.01.001 WISDOT-STH 76

Pace Project No.: 4040630

Green Bay Certification IDs

1241 Bellevue Street, Green Bay, WI 54302

California Certification #: 09268CA

Florida/NELAP Certification #: E87948

Illinois Certification #: 200050

Kentucky Certification #: 82

Louisiana Certification #: 04168

Minnesota Certification #: 055-999-334

New York Certification #: 11888

New York Certification #: 11888

North Carolina Certification #: 503

North Dakota Certification #: R-150

South Carolina Certification #: 83006001

US Dept of Agriculture #: S-76505

Wisconsin Certification #: 405132750

Wisconsin DATCP Certification #: 105-444

REPORT OF LABORATORY ANALYSIS

Page 2 of 17

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SAMPLE SUMMARY

Project: 06343.01.001 WISDOT-STH 76

Pace Project No.: 4040630

Lab ID	Sample ID	Matrix	Date Collected	Date Received
4040630001	MW-1	Water	12/08/10 15:25	12/10/10 09:35
4040630002	MW-2	Water	12/08/10 16:25	12/10/10 09:35
4040630003	MW-3	Water	12/08/10 16:40	12/10/10 09:35
4040630004	MW-4	Water	12/08/10 13:10	12/10/10 09:35
4040630005	MW-5	Water	12/08/10 14:40	12/10/10 09:35
4040630006	PW-T	Water	12/08/10 16:35	12/10/10 09:35
4040630007	TB	Water	12/08/10 00:00	12/10/10 09:35

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: 06343.01.001 WISDOT-STH 76

Pace Project No.: 4040630

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
4040630001	MW-1	WI MOD GRO	SES	10	PASI-G
		EPA 6010	DLB	1	PASI-G
4040630002	MW-2	WI MOD GRO	SES	10	PASI-G
		EPA 6010	DLB	1	PASI-G
4040630003	MW-3	WI MOD GRO	PMS	10	PASI-G
		EPA 6010	DLB	1	PASI-G
4040630004	MW-4	WI MOD GRO	SES	10	PASI-G
		EPA 6010	DLB	1	PASI-G
4040630005	MW-5	WI MOD GRO	SES	10	PASI-G
		EPA 6010	DLB	1	PASI-G
4040630006	PW-T	WI MOD GRO	PMS	10	PASI-G
		EPA 6010	DLB	1	PASI-G
4040630007	TB	WI MOD GRO	PMS	10	PASI-G

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: 06343.01.001 WISDOT-STH 76
Pace Project No.: 4040630

Method: WI MOD GRO
Description: WIGRO GCV
Client: RMT - MADISON
Date: December 16, 2010

General Information:

7 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.

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 with any exceptions noted below.

Laboratory Control Spike:

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

Matrix Spikes:

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

QC Batch: GCV/6015

A matrix spike/matrix spike duplicate was not performed due to insufficient sample volume.

Duplicate Sample:

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

Additional Comments:

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: 06343.01.001 WISDOT-STH 76
Pace Project No.: 4040630

Method: EPA 6010
Description: 6010 MET ICP, Dissolved
Client: RMT - MADISON
Date: December 16, 2010

General Information:

6 samples were analyzed for EPA 6010. 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.

Method Blank:

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

Laboratory Control Spike:

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

Matrix Spikes:

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

Duplicate Sample:

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

Additional Comments:

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: 06343.01.001 WISDOT-STH 76

Pace Project No.: 4040630

Sample: MW-1 **Lab ID: 4040630001** Collected: 12/08/10 15:25 Received: 12/10/10 09:35 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV		Analytical Method: WI MOD GRO							
Benzene	2.3	ug/L	1.0	0.39	1		12/13/10 14:02	71-43-2	
Ethylbenzene	5.8	ug/L	1.0	0.41	1		12/13/10 14:02	100-41-4	
Methyl-tert-butyl ether	2.6	ug/L	1.0	0.38	1		12/13/10 14:02	1634-04-4	
Naphthalene	7.2	ug/L	1.0	0.40	1		12/13/10 14:02	91-20-3	
Toluene	2.4	ug/L	1.0	0.42	1		12/13/10 14:02	108-88-3	
1,2,4-Trimethylbenzene	14.6	ug/L	1.0	0.43	1		12/13/10 14:02	95-63-6	
1,3,5-Trimethylbenzene	24.6	ug/L	1.0	0.40	1		12/13/10 14:02	108-67-8	
m&p-Xylene	3.4	ug/L	2.0	0.87	1		12/13/10 14:02	179601-23-1	
o-Xylene	0.67J	ug/L	1.0	0.38	1		12/13/10 14:02	95-47-6	
a,a,a-Trifluorotoluene (S)	98	%	80-120		1		12/13/10 14:02	98-08-8	
6010 MET ICP, Dissolved		Analytical Method: EPA 6010							
Lead, Dissolved	1.7J	ug/L	7.5	1.7	1		12/13/10 21:58	7439-92-1	

ANALYTICAL RESULTS

Project: 06343.01.001 WISDOT-STH 76

Pace Project No.: 4040630

Sample: MW-2 **Lab ID: 4040630002** Collected: 12/08/10 16:25 Received: 12/10/10 09:35 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV		Analytical Method: WI MOD GRO							
Benzene	<0.39	ug/L	1.0	0.39	1		12/13/10 14:27	71-43-2	
Ethylbenzene	260	ug/L	1.0	0.41	1		12/13/10 14:27	100-41-4	
Methyl-tert-butyl ether	3.3	ug/L	1.0	0.38	1		12/13/10 14:27	1634-04-4	
Naphthalene	116	ug/L	1.0	0.40	1		12/13/10 14:27	91-20-3	
Toluene	5.6	ug/L	1.0	0.42	1		12/13/10 14:27	108-88-3	
1,2,4-Trimethylbenzene	119	ug/L	1.0	0.43	1		12/13/10 14:27	95-63-6	
1,3,5-Trimethylbenzene	99.7	ug/L	1.0	0.40	1		12/13/10 14:27	108-67-8	
m&p-Xylene	130	ug/L	2.0	0.87	1		12/13/10 14:27	179601-23-1	
o-Xylene	5.2	ug/L	1.0	0.38	1		12/13/10 14:27	95-47-6	
a,a,a-Trifluorotoluene (S)	94	%	80-120		1		12/13/10 14:27	98-08-8	
6010 MET ICP, Dissolved		Analytical Method: EPA 6010							
Lead, Dissolved	2.0J	ug/L	7.5	1.7	1		12/13/10 22:10	7439-92-1	

ANALYTICAL RESULTS

Project: 06343.01.001 WISDOT-STH 76
Pace Project No.: 4040630

Sample: MW-3 **Lab ID: 4040630003** Collected: 12/08/10 16:40 Received: 12/10/10 09:35 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV		Analytical Method: WI MOD GRO							
Benzene	0.42J	ug/L	1.0	0.39	1		12/15/10 11:40	71-43-2	
Ethylbenzene	1.0	ug/L	1.0	0.41	1		12/15/10 11:40	100-41-4	
Methyl-tert-butyl ether	<0.38	ug/L	1.0	0.38	1		12/15/10 11:40	1634-04-4	
Naphthalene	0.65J	ug/L	1.0	0.40	1		12/15/10 11:40	91-20-3	
Toluene	<0.42	ug/L	1.0	0.42	1		12/15/10 11:40	108-88-3	
1,2,4-Trimethylbenzene	<0.43	ug/L	1.0	0.43	1		12/15/10 11:40	95-63-6	
1,3,5-Trimethylbenzene	<0.40	ug/L	1.0	0.40	1		12/15/10 11:40	108-67-8	
m&p-Xylene	1.7J	ug/L	2.0	0.87	1		12/15/10 11:40	179601-23-1	
o-Xylene	0.51J	ug/L	1.0	0.38	1		12/15/10 11:40	95-47-6	
a,a,a-Trifluorotoluene (S)	110	%	80-120		1		12/15/10 11:40	98-08-8	
6010 MET ICP, Dissolved		Analytical Method: EPA 6010							
Lead, Dissolved	1.8J	ug/L	7.5	1.7	1		12/13/10 22:14	7439-92-1	

ANALYTICAL RESULTS

Project: 06343.01.001 WISDOT-STH 76
Pace Project No.: 4040630

Sample: MW-4 **Lab ID: 4040630004** Collected: 12/08/10 13:10 Received: 12/10/10 09:35 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV		Analytical Method: WI MOD GRO							
Benzene	0.51J	ug/L	1.0	0.39	1		12/13/10 15:18	71-43-2	
Ethylbenzene	<0.41	ug/L	1.0	0.41	1		12/13/10 15:18	100-41-4	
Methyl-tert-butyl ether	<0.38	ug/L	1.0	0.38	1		12/13/10 15:18	1634-04-4	
Naphthalene	<0.40	ug/L	1.0	0.40	1		12/13/10 15:18	91-20-3	
Toluene	<0.42	ug/L	1.0	0.42	1		12/13/10 15:18	108-88-3	
1,2,4-Trimethylbenzene	<0.43	ug/L	1.0	0.43	1		12/13/10 15:18	95-63-6	
1,3,5-Trimethylbenzene	<0.40	ug/L	1.0	0.40	1		12/13/10 15:18	108-67-8	
m&p-Xylene	<0.87	ug/L	2.0	0.87	1		12/13/10 15:18	179601-23-1	
o-Xylene	<0.38	ug/L	1.0	0.38	1		12/13/10 15:18	95-47-6	
a,a,a-Trifluorotoluene (S)	104	%	80-120		1		12/13/10 15:18	98-08-8	
6010 MET ICP, Dissolved		Analytical Method: EPA 6010							
Lead, Dissolved	2.0J	ug/L	7.5	1.7	1		12/13/10 22:19	7439-92-1	

ANALYTICAL RESULTS

Project: 06343.01.001 WISDOT-STH 76

Pace Project No.: 4040630

Sample: MW-5 **Lab ID: 4040630005** Collected: 12/08/10 14:40 Received: 12/10/10 09:35 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV		Analytical Method: WI MOD GRO							
Benzene	<0.39	ug/L	1.0	0.39	1		12/13/10 15:44	71-43-2	
Ethylbenzene	<0.41	ug/L	1.0	0.41	1		12/13/10 15:44	100-41-4	
Methyl-tert-butyl ether	<0.38	ug/L	1.0	0.38	1		12/13/10 15:44	1634-04-4	
Naphthalene	<0.40	ug/L	1.0	0.40	1		12/13/10 15:44	91-20-3	
Toluene	<0.42	ug/L	1.0	0.42	1		12/13/10 15:44	108-88-3	
1,2,4-Trimethylbenzene	<0.43	ug/L	1.0	0.43	1		12/13/10 15:44	95-63-6	
1,3,5-Trimethylbenzene	<0.40	ug/L	1.0	0.40	1		12/13/10 15:44	108-67-8	
m&p-Xylene	<0.87	ug/L	2.0	0.87	1		12/13/10 15:44	179601-23-1	
o-Xylene	<0.38	ug/L	1.0	0.38	1		12/13/10 15:44	95-47-6	
a,a,a-Trifluorotoluene (S)	102	%	80-120		1		12/13/10 15:44	98-08-8	
6010 MET ICP, Dissolved		Analytical Method: EPA 6010							
Lead, Dissolved	2.1J	ug/L	7.5	1.7	1		12/13/10 22:23	7439-92-1	

ANALYTICAL RESULTS

Project: 06343.01.001 WISDOT-STH 76

Pace Project No.: 4040630

Sample: PW-T **Lab ID: 4040630006** Collected: 12/08/10 16:35 Received: 12/10/10 09:35 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV		Analytical Method: WI MOD GRO							
Benzene	<0.39	ug/L	1.0	0.39	1		12/15/10 10:23	71-43-2	
Ethylbenzene	<0.41	ug/L	1.0	0.41	1		12/15/10 10:23	100-41-4	
Methyl-tert-butyl ether	<0.38	ug/L	1.0	0.38	1		12/15/10 10:23	1634-04-4	
Naphthalene	<0.40	ug/L	1.0	0.40	1		12/15/10 10:23	91-20-3	
Toluene	<0.42	ug/L	1.0	0.42	1		12/15/10 10:23	108-88-3	
1,2,4-Trimethylbenzene	<0.43	ug/L	1.0	0.43	1		12/15/10 10:23	95-63-6	
1,3,5-Trimethylbenzene	<0.40	ug/L	1.0	0.40	1		12/15/10 10:23	108-67-8	
m&p-Xylene	<0.87	ug/L	2.0	0.87	1		12/15/10 10:23	179601-23-1	
o-Xylene	<0.38	ug/L	1.0	0.38	1		12/15/10 10:23	95-47-6	
a,a,a-Trifluorotoluene (S)	106	%	80-120		1		12/15/10 10:23	98-08-8	
6010 MET ICP, Dissolved		Analytical Method: EPA 6010							
Lead, Dissolved	8.6	ug/L	7.5	1.7	1		12/13/10 22:27	7439-92-1	

ANALYTICAL RESULTS

Project: 06343.01.001 WISDOT-STH 76

Pace Project No.: 4040630

Sample: TB **Lab ID: 4040630007** Collected: 12/08/10 00:00 Received: 12/10/10 09:35 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV		Analytical Method: WI MOD GRO							
Benzene	<0.39	ug/L	1.0	0.39	1		12/15/10 14:13	71-43-2	
Ethylbenzene	<0.41	ug/L	1.0	0.41	1		12/15/10 14:13	100-41-4	
Methyl-tert-butyl ether	<0.38	ug/L	1.0	0.38	1		12/15/10 14:13	1634-04-4	
Naphthalene	<0.40	ug/L	1.0	0.40	1		12/15/10 14:13	91-20-3	
Toluene	<0.42	ug/L	1.0	0.42	1		12/15/10 14:13	108-88-3	
1,2,4-Trimethylbenzene	<0.43	ug/L	1.0	0.43	1		12/15/10 14:13	95-63-6	
1,3,5-Trimethylbenzene	<0.40	ug/L	1.0	0.40	1		12/15/10 14:13	108-67-8	
m&p-Xylene	<0.87	ug/L	2.0	0.87	1		12/15/10 14:13	179601-23-1	
o-Xylene	<0.38	ug/L	1.0	0.38	1		12/15/10 14:13	95-47-6	
a,a,a-Trifluorotoluene (S)	106	%	80-120		1		12/15/10 14:13	98-08-8	HS

QUALITY CONTROL DATA

Project: 06343.01.001 WISDOT-STH 76
Project No.: 4040630

QC Batch: GCV/6015 Analysis Method: WI MOD GRO
QC Batch Method: WI MOD GRO Analysis Description: WIGRO GCV Water
Associated Lab Samples: 4040630001, 4040630002, 4040630004, 4040630005

METHOD BLANK: 395259 Matrix: Water
Associated Lab Samples: 4040630001, 4040630002, 4040630004, 4040630005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2,4-Trimethylbenzene	ug/L	<0.43	1.0	12/13/10 11:03	
1,3,5-Trimethylbenzene	ug/L	<0.40	1.0	12/13/10 11:03	
Benzene	ug/L	<0.39	1.0	12/13/10 11:03	
Ethylbenzene	ug/L	<0.41	1.0	12/13/10 11:03	
m&p-Xylene	ug/L	<0.87	2.0	12/13/10 11:03	
Methyl-tert-butyl ether	ug/L	<0.38	1.0	12/13/10 11:03	
Naphthalene	ug/L	<0.40	1.0	12/13/10 11:03	
o-Xylene	ug/L	<0.38	1.0	12/13/10 11:03	
Toluene	ug/L	<0.42	1.0	12/13/10 11:03	
a,a,a-Trifluorotoluene (S)	%	103	80-120	12/13/10 11:03	

LABORATORY CONTROL SAMPLE & LCSD: 395260 395261

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
1,2,4-Trimethylbenzene	ug/L	20	20.6	20.7	103	103	80-120	.1	20	
1,3,5-Trimethylbenzene	ug/L	20	20.9	20.9	104	104	80-120	.1	20	
Benzene	ug/L	20	21.1	21.0	105	105	80-120	.3	20	
Ethylbenzene	ug/L	20	21.1	21.3	106	107	80-120	1	20	
m&p-Xylene	ug/L	40	41.7	42.2	104	105	80-120	1	20	
Methyl-tert-butyl ether	ug/L	20	20.8	21.0	104	105	80-120	1	20	
Naphthalene	ug/L	20	18.6	19.2	93	96	80-120	3	20	
o-Xylene	ug/L	20	20.8	20.9	104	105	80-120	.7	20	
Toluene	ug/L	20	21.0	21.3	105	106	80-120	1	20	
a,a,a-Trifluorotoluene (S)	%				102	103	80-120			

QUALITY CONTROL DATA

Project: 06343.01.001 WISDOT-STH 76
Pace Project No.: 4040630

QC Batch: GCV/6039 Analysis Method: WI MOD GRO
QC Batch Method: WI MOD GRO Analysis Description: WIGRO GCV Water
Associated Lab Samples: 4040630003, 4040630006, 4040630007

METHOD BLANK: 396142 Matrix: Water

Associated Lab Samples: 4040630003, 4040630006, 4040630007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2,4-Trimethylbenzene	ug/L	<0.43	1.0	12/15/10 08:16	
1,3,5-Trimethylbenzene	ug/L	<0.40	1.0	12/15/10 08:16	
Benzene	ug/L	<0.39	1.0	12/15/10 08:16	
Ethylbenzene	ug/L	<0.41	1.0	12/15/10 08:16	
m&p-Xylene	ug/L	<0.87	2.0	12/15/10 08:16	
Methyl-tert-butyl ether	ug/L	<0.38	1.0	12/15/10 08:16	
Naphthalene	ug/L	<0.40	1.0	12/15/10 08:16	
o-Xylene	ug/L	<0.38	1.0	12/15/10 08:16	
Toluene	ug/L	<0.42	1.0	12/15/10 08:16	
a,a,a-Trifluorotoluene (S)	%	105	80-120	12/15/10 08:16	

LABORATORY CONTROL SAMPLE & LCSD: 396143 396144

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
1,2,4-Trimethylbenzene	ug/L	20	19.1	19.0	95	95	80-120	.2	20	
1,3,5-Trimethylbenzene	ug/L	20	18.9	18.8	95	94	80-120	.4	20	
Benzene	ug/L	20	19.5	19.2	97	96	80-120	1	20	
Ethylbenzene	ug/L	20	19.2	18.9	96	95	80-120	2	20	
m&p-Xylene	ug/L	40	38.4	38.0	96	95	80-120	1	20	
Methyl-tert-butyl ether	ug/L	20	18.9	19.1	95	96	80-120	.9	20	
Naphthalene	ug/L	20	19.0	19.5	95	98	80-120	3	20	
o-Xylene	ug/L	20	19.3	19.0	96	95	80-120	1	20	
Toluene	ug/L	20	19.4	19.0	97	95	80-120	2	20	
a,a,a-Trifluorotoluene (S)	%				103	104	80-120			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 395647 395648

Parameter	Units	4040534002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,2,4-Trimethylbenzene	ug/L	2450	1000	1000	3370	3400	92	95	31-178	.8	20	
1,3,5-Trimethylbenzene	ug/L	677	1000	1000	1650	1640	97	96	66-145	.6	20	
Benzene	ug/L	1820	1000	1000	2770	2800	95	98	23-177	1	20	
Ethylbenzene	ug/L	2350	1000	1000	3270	3300	92	95	63-144	.9	20	
m&p-Xylene	ug/L	8800	2000	2000	10500	10600	85	91	39-172	1	20	
Methyl-tert-butyl ether	ug/L	80.3	1000	1000	1050	1060	97	98	80-120	1	20	
Naphthalene	ug/L	761	1000	1000	1730	1770	97	101	63-140	2	20	
o-Xylene	ug/L	4010	1000	1000	4880	4930	87	92	60-150	1	20	
Toluene	ug/L	5200	1000	1000	6060	6120	86	92	53-164	1	20	
a,a,a-Trifluorotoluene (S)	%						101	99	80-120			

QUALITY CONTROL DATA

Project: 06343.01.001 WISDOT-STH 76
Pace Project No.: 4040630

QC Batch: ICP/4156 Analysis Method: EPA 6010
QC Batch Method: EPA 6010 Analysis Description: ICP Metals, Trace, Dissolved
Associated Lab Samples: 4040630001, 4040630002, 4040630003, 4040630004, 4040630005, 4040630006

METHOD BLANK: 395509 Matrix: Water
Associated Lab Samples: 4040630001, 4040630002, 4040630003, 4040630004, 4040630005, 4040630006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Lead, Dissolved	ug/L	<1.7	7.5	12/13/10 20:51	

LABORATORY CONTROL SAMPLE: 395510

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lead, Dissolved	ug/L	500	503	101	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 395511 395512

Parameter	Units	4040389005		MS		MSD		% Rec		Max		Qual
		Result	Conc.	Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec	Limits	RPD	
Lead, Dissolved	ug/L	2.0J	500	500	494	492	98	98	75-125	.3	20	

QUALIFIERS

Project: 06343.01.001 WISDOT-STH 76

Pace Project No.: 4040630

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.

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.

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 NELAP accredited. Contact your Pace PM for the current list of accredited analytes.

LABORATORIES

PASI-G Pace Analytical Services - Green Bay

BATCH QUALIFIERS

Batch: GCV/6015

[M5] A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

ANALYTE QUALIFIERS

HS Results are from sample aliquot taken from VOA vial with headspace (air bubble greater than 6 mm diameter).

(Please Print Clearly)



www.faceanals.com

CHAIN OF CUSTODY

A=None B=HCL C=H2SO4 D=HNO3 E=D1 Water F=Methanol G=NaOH
 H=Sodium Bisulfate Solution I=Sodium Thiosulfate J=Other

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

Ward

Company Name: **RMT, INC**
 Branch/Location: **Madison**
 Project Contact: **D. Hoak/T. O'Connell**
 Phone: **608-831-4444**
 Project Number: **06343.01.001**
 Project Name: **WisDOT - ST176**
 Project State: **WI**
 Sampled By (Print): **Ted O'Connell**
 Sampled By (Sign): *[Signature]*
 PO #: _____

FILTERED? (YES/NO) _____
 PRESERVATION (CODE) _____
 Regulatory Program: _____

Data Package Options
 EPA Level III
 EPA Level IV
 On your sample (billable)
 NOT needed on your sample

Matrix Codes
 A = Air
 B = Biota
 C = Charcoal
 O = Oil
 S = Soil
 SI = Sludge
 W = Water
 DW = Drinking Water
 GW = Ground Water
 SW = Surface Water
 WW = Waste Water
 WP = Wipe

PAGE LAB #	CLIENT FIELD ID	COLLECTION		MATRIX
		DATE	TIME	
001	MWS-1	12/8/10	5:35	GW
002	MW-2		16:25	
003	MW-3		16:40	
004	MW-4		19:10	
005	MW-5		19:40	
006	PW-T		16:35	
007	TB K			

Y/N	Pick Label	Analyses Requested	
		DATE	TIME
X	B		
X	D		

RELINQUISHED BY	DATE/TIME	RECEIVED BY	DATE/TIME
<i>[Signature]</i>	12/8/10 14:30	<i>[Signature]</i>	12/8/10 14:30
<i>[Signature]</i>	12/9/10 17:00	<i>[Signature]</i>	12/9/10 15:00
<i>[Signature]</i>	12/10/10 09:25	<i>[Signature]</i>	12/10/10 09:25

Quote #: _____
Mail To Contact: _____
Mail To Company: _____
Mail To Address: _____
Invoice To Contact: **D. Hoak**
Invoice To Company: **RMT, INC**
Invoice To Address: **744 Heartland Trail
Madison WI 53717**
Invoice To Phone: **608-831-4444**
CLIENT COMMENTS: _____
LAB COMMENTS (Lab Use Only): **1-250M1D 3-40M1B**
Profile #: _____

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

Receipt Temp = **P01** °C
Sample Receipt pH _____
OK/Adjusted _____
Cooler Custody Seal Present/ Not Present _____
Intact/ Not Intact _____



Sample Condition Upon Receipt

Client Name: - RMT Project # 4040630

Courier: Fed Ex UPS USPS Client Commercial 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 201

Biological Tissue is Frozen: yes no

Temp Blank Present: yes no

Optional
Proj. Due Date:
Proj. Name:

Person examining contents:

Date: 12/10/10

Initials: AE

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

Comments:

Chain of Custody Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.
Chain of Custody Filled Out:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.
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.
Short Hold Time Analysis (<72hr):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	6.
Rush Turn Around Time Requested:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	7.
Sufficient Volume:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	8.
Correct Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.
-Pace Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Containers Intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	10.
Filtered volume received for Dissolved tests	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	11.
Sample Labels match COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	12.
-Includes date/time/ID/Analysis Matrix:	<u>W</u>	
All containers needing preservation have been checked.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	13.
All containers needing preservation are found to be in compliance with EPA recommendation.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
exceptions: VOA, coliform, TOC, O&G, WI-DRO (water)	<input type="checkbox"/> Yes <input type="checkbox"/> No	Initial when completed <u>AE</u> Lot # of added preservative
Samples checked for dechlorination:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	14.
Headspace in VOA Vials (>6mm):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	15.
Trip Blank Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	16. <u>Rec'd in cooler. Added to COC by lab. AE 12/10/10</u>
Trip Blank Custody Seals Present	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Pace Trip Blank Lot # (if purchased):	_____	

Client Notification/ Resolution: _____ Date/Time: _____ Field Data Required? Y / N
Person Contacted: _____
Comments/ Resolution: _____

Project Manager Review: [Signature] Date: 12/10/10

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

April 21, 2011

MARK WALTER
RMT - MADISON
744 HEARTLAND TRAIL
Madison, WI 53717

RE: Project: 06343.01.001 WisDOT-STH 76
Pace Project No.: 4044707

Dear MARK WALTER:

Enclosed are the analytical results for sample(s) received by the laboratory on April 16, 2011. The results relate only to the samples included in this report. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated 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

cc: TED O'CONNELL, RMT MADISON

REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: 06343.01.001 WisDOT-STH 76

Pace Project No.: 4044707

Green Bay Certification IDs

1241 Bellevue Street, Green Bay, WI 54302

California Certification #: 09268CA

Florida/NELAP Certification #: E87948

Illinois Certification #: 200050

Kentucky Certification #: 82

Louisiana Certification #: 04168

Minnesota Certification #: 055-999-334

New York Certification #: 11888

New York Certification #: 11888

North Carolina Certification #: 503

North Dakota Certification #: R-150

South Carolina Certification #: 83006001

US Dept of Agriculture #: S-76505

Wisconsin Certification #: 405132750

Wisconsin DATCP Certification #: 105-444

REPORT OF LABORATORY ANALYSIS

Page 2 of 18

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SAMPLE SUMMARY

Project: 06343.01.001 WisDOT-STH 76

Pace Project No.: 4044707

Lab ID	Sample ID	Matrix	Date Collected	Date Received
4044707001	MW-1	Water	04/14/11 14:05	04/16/11 08:15
4044707002	MW-2	Water	04/14/11 15:00	04/16/11 08:15
4044707003	MW-3	Water	04/14/11 13:15	04/16/11 08:15
4044707004	MW-4	Water	04/14/11 10:30	04/16/11 08:15
4044707005	MW-5	Water	04/14/11 11:35	04/16/11 08:15
4044707006	PW-TWISTERS	Water	04/14/11 14:50	04/16/11 08:15
4044707007	PW-N3671	Water	04/14/11 14:35	04/16/11 08:15
4044707008	TRIP BLANK	Water	04/14/11 00:00	04/16/11 08:15

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: 06343.01.001 WisDOT-STH 76

Pace Project No.: 4044707

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
4044707001	MW-1	WI MOD GRO	SES	9	PASI-G
		EPA 6010	DLB	1	PASI-G
4044707002	MW-2	WI MOD GRO	SES	9	PASI-G
		EPA 6010	DLB	1	PASI-G
4044707003	MW-3	WI MOD GRO	SES	9	PASI-G
		EPA 6010	DLB	1	PASI-G
4044707004	MW-4	WI MOD GRO	SES	9	PASI-G
		EPA 6010	DLB	1	PASI-G
4044707005	MW-5	WI MOD GRO	SES	9	PASI-G
		EPA 6010	DLB	1	PASI-G
4044707006	PW-TWISTERS	WI MOD GRO	SES	9	PASI-G
		EPA 6010	DLB	1	PASI-G
4044707007	PW-N3671	WI MOD GRO	SES	9	PASI-G
		EPA 6010	DLB	1	PASI-G
4044707008	TRIP BLANK	WI MOD GRO	SES	9	PASI-G

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: 06343.01.001 WisDOT-STH 76
Pace Project No.: 4044707

Method: WI MOD GRO
Description: WIGRO GCV
Client: RMT - MADISON
Date: April 21, 2011

General Information:

8 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.

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 with any exceptions noted below.

Laboratory Control Spike:

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

Matrix Spikes:

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

QC Batch: GCV/6529

A matrix spike/matrix spike duplicate was not performed due to insufficient sample volume.

QC Batch: GCV/6538

A matrix spike/matrix spike duplicate was not performed due to insufficient sample volume.

Duplicate Sample:

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

Additional Comments:

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: 06343.01.001 WisDOT-STH 76
Pace Project No.: 4044707

Method: EPA 6010
Description: 6010 MET ICP, Dissolved
Client: RMT - MADISON
Date: April 21, 2011

General Information:

7 samples were analyzed for EPA 6010. 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.

Method Blank:

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

Laboratory Control Spike:

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

Matrix Spikes:

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

Duplicate Sample:

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

Additional Comments:

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: 06343.01.001 WisDOT-STH 76

Pace Project No.: 4044707

Sample: MW-1 **Lab ID: 4044707001** Collected: 04/14/11 14:05 Received: 04/16/11 08:15 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV		Analytical Method: WI MOD GRO							
Benzene	<0.39	ug/L	1.0	0.39	1		04/20/11 11:37	71-43-2	
Ethylbenzene	<0.41	ug/L	1.0	0.41	1		04/20/11 11:37	100-41-4	
Methyl-tert-butyl ether	1.5	ug/L	1.0	0.38	1		04/20/11 11:37	1634-04-4	
Toluene	<0.42	ug/L	1.0	0.42	1		04/20/11 11:37	108-88-3	
1,2,4-Trimethylbenzene	1.8	ug/L	1.0	0.43	1		04/20/11 11:37	95-63-6	
1,3,5-Trimethylbenzene	3.4	ug/L	1.0	0.40	1		04/20/11 11:37	108-67-8	
m&p-Xylene	<0.87	ug/L	2.0	0.87	1		04/20/11 11:37	179601-23-1	
o-Xylene	<0.38	ug/L	1.0	0.38	1		04/20/11 11:37	95-47-6	
a,a,a-Trifluorotoluene (S)	101	%	80-120		1		04/20/11 11:37	98-08-8	
6010 MET ICP, Dissolved		Analytical Method: EPA 6010							
Lead, Dissolved	<1.7	ug/L	7.5	1.7	1		04/20/11 13:48	7439-92-1	

ANALYTICAL RESULTS

Project: 06343.01.001 WisDOT-STH 76
Pace Project No.: 4044707

Sample: MW-2 **Lab ID: 4044707002** Collected: 04/14/11 15:00 Received: 04/16/11 08:15 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV		Analytical Method: WI MOD GRO							
Benzene	<0.97	ug/L	2.5	0.97	2.5		04/20/11 15:54	71-43-2	
Ethylbenzene	172	ug/L	2.5	1.0	2.5		04/20/11 15:54	100-41-4	
Methyl-tert-butyl ether	12.0	ug/L	2.5	0.95	2.5		04/20/11 15:54	1634-04-4	
Toluene	4.5	ug/L	2.5	1.0	2.5		04/20/11 15:54	108-88-3	
1,2,4-Trimethylbenzene	325	ug/L	2.5	1.1	2.5		04/20/11 15:54	95-63-6	
1,3,5-Trimethylbenzene	144	ug/L	2.5	0.99	2.5		04/20/11 15:54	108-67-8	
m&p-Xylene	204	ug/L	5.0	2.2	2.5		04/20/11 15:54	179601-23-1	
o-Xylene	5.9	ug/L	2.5	0.95	2.5		04/20/11 15:54	95-47-6	
a,a,a-Trifluorotoluene (S)	95	%	80-120		2.5		04/20/11 15:54	98-08-8	
6010 MET ICP, Dissolved		Analytical Method: EPA 6010							
Lead, Dissolved	1.7J	ug/L	7.5	1.7	1		04/20/11 13:52	7439-92-1	

ANALYTICAL RESULTS

Project: 06343.01.001 WisDOT-STH 76

Pace Project No.: 4044707

Sample: MW-3 **Lab ID: 4044707003** Collected: 04/14/11 13:15 Received: 04/16/11 08:15 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV		Analytical Method: WI MOD GRO							
Benzene	<0.39	ug/L	1.0	0.39	1		04/20/11 16:20	71-43-2	
Ethylbenzene	<0.41	ug/L	1.0	0.41	1		04/20/11 16:20	100-41-4	
Methyl-tert-butyl ether	<0.38	ug/L	1.0	0.38	1		04/20/11 16:20	1634-04-4	
Toluene	<0.42	ug/L	1.0	0.42	1		04/20/11 16:20	108-88-3	
1,2,4-Trimethylbenzene	<0.43	ug/L	1.0	0.43	1		04/20/11 16:20	95-63-6	
1,3,5-Trimethylbenzene	<0.40	ug/L	1.0	0.40	1		04/20/11 16:20	108-67-8	
m&p-Xylene	<0.87	ug/L	2.0	0.87	1		04/20/11 16:20	179601-23-1	
o-Xylene	<0.38	ug/L	1.0	0.38	1		04/20/11 16:20	95-47-6	
a,a,a-Trifluorotoluene (S)	100	%	80-120		1		04/20/11 16:20	98-08-8	
6010 MET ICP, Dissolved		Analytical Method: EPA 6010							
Lead, Dissolved	2.0J	ug/L	7.5	1.7	1		04/20/11 13:56	7439-92-1	

ANALYTICAL RESULTS

Project: 06343.01.001 WisDOT-STH 76

Pace Project No.: 4044707

Sample: MW-4 **Lab ID: 4044707004** Collected: 04/14/11 10:30 Received: 04/16/11 08:15 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV		Analytical Method: WI MOD GRO							
Benzene	12.7	ug/L	1.0	0.39	1		04/20/11 16:45	71-43-2	
Ethylbenzene	0.51J	ug/L	1.0	0.41	1		04/20/11 16:45	100-41-4	
Methyl-tert-butyl ether	0.40J	ug/L	1.0	0.38	1		04/20/11 16:45	1634-04-4	
Toluene	0.95J	ug/L	1.0	0.42	1		04/20/11 16:45	108-88-3	
1,2,4-Trimethylbenzene	<0.43	ug/L	1.0	0.43	1		04/20/11 16:45	95-63-6	
1,3,5-Trimethylbenzene	<0.40	ug/L	1.0	0.40	1		04/20/11 16:45	108-67-8	
m&p-Xylene	<0.87	ug/L	2.0	0.87	1		04/20/11 16:45	179601-23-1	
o-Xylene	<0.38	ug/L	1.0	0.38	1		04/20/11 16:45	95-47-6	
a,a,a-Trifluorotoluene (S)	106	%	80-120		1		04/20/11 16:45	98-08-8	
6010 MET ICP, Dissolved		Analytical Method: EPA 6010							
Lead, Dissolved	2.5J	ug/L	7.5	1.7	1		04/20/11 14:08	7439-92-1	

ANALYTICAL RESULTS

Project: 06343.01.001 WisDOT-STH 76

Pace Project No.: 4044707

Sample: MW-5 **Lab ID: 4044707005** Collected: 04/14/11 11:35 Received: 04/16/11 08:15 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV		Analytical Method: WI MOD GRO							
Benzene	<0.39	ug/L	1.0	0.39	1		04/20/11 17:11	71-43-2	
Ethylbenzene	<0.41	ug/L	1.0	0.41	1		04/20/11 17:11	100-41-4	
Methyl-tert-butyl ether	<0.38	ug/L	1.0	0.38	1		04/20/11 17:11	1634-04-4	
Toluene	<0.42	ug/L	1.0	0.42	1		04/20/11 17:11	108-88-3	
1,2,4-Trimethylbenzene	<0.43	ug/L	1.0	0.43	1		04/20/11 17:11	95-63-6	
1,3,5-Trimethylbenzene	<0.40	ug/L	1.0	0.40	1		04/20/11 17:11	108-67-8	
m&p-Xylene	<0.87	ug/L	2.0	0.87	1		04/20/11 17:11	179601-23-1	
o-Xylene	<0.38	ug/L	1.0	0.38	1		04/20/11 17:11	95-47-6	
a,a,a-Trifluorotoluene (S)	103	%	80-120		1		04/20/11 17:11	98-08-8	
6010 MET ICP, Dissolved		Analytical Method: EPA 6010							
Lead, Dissolved	2.3J	ug/L	7.5	1.7	1		04/20/11 14:12	7439-92-1	

ANALYTICAL RESULTS

Project: 06343.01.001 WisDOT-STH 76

Pace Project No.: 4044707

Sample: PW-TWISTERS **Lab ID: 4044707006** Collected: 04/14/11 14:50 Received: 04/16/11 08:15 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV		Analytical Method: WI MOD GRO							
Benzene	<0.39	ug/L	1.0	0.39	1		04/20/11 17:36	71-43-2	
Ethylbenzene	<0.41	ug/L	1.0	0.41	1		04/20/11 17:36	100-41-4	
Methyl-tert-butyl ether	<0.38	ug/L	1.0	0.38	1		04/20/11 17:36	1634-04-4	
Toluene	<0.42	ug/L	1.0	0.42	1		04/20/11 17:36	108-88-3	
1,2,4-Trimethylbenzene	<0.43	ug/L	1.0	0.43	1		04/20/11 17:36	95-63-6	
1,3,5-Trimethylbenzene	<0.40	ug/L	1.0	0.40	1		04/20/11 17:36	108-67-8	
m&p-Xylene	<0.87	ug/L	2.0	0.87	1		04/20/11 17:36	179601-23-1	
o-Xylene	<0.38	ug/L	1.0	0.38	1		04/20/11 17:36	95-47-6	
a,a,a-Trifluorotoluene (S)	100	%	80-120		1		04/20/11 17:36	98-08-8	
6010 MET ICP, Dissolved		Analytical Method: EPA 6010							
Lead, Dissolved	2.5J	ug/L	7.5	1.7	1		04/20/11 14:16	7439-92-1	

ANALYTICAL RESULTS

Project: 06343.01.001 WisDOT-STH 76

Pace Project No.: 4044707

Sample: PW-N3671 **Lab ID: 4044707007** Collected: 04/14/11 14:35 Received: 04/16/11 08:15 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV		Analytical Method: WI MOD GRO							
Benzene	<0.39	ug/L	1.0	0.39	1		04/20/11 18:02	71-43-2	
Ethylbenzene	<0.41	ug/L	1.0	0.41	1		04/20/11 18:02	100-41-4	
Methyl-tert-butyl ether	<0.38	ug/L	1.0	0.38	1		04/20/11 18:02	1634-04-4	
Toluene	<0.42	ug/L	1.0	0.42	1		04/20/11 18:02	108-88-3	
1,2,4-Trimethylbenzene	<0.43	ug/L	1.0	0.43	1		04/20/11 18:02	95-63-6	
1,3,5-Trimethylbenzene	<0.40	ug/L	1.0	0.40	1		04/20/11 18:02	108-67-8	
m&p-Xylene	<0.87	ug/L	2.0	0.87	1		04/20/11 18:02	179601-23-1	
o-Xylene	<0.38	ug/L	1.0	0.38	1		04/20/11 18:02	95-47-6	
a,a,a-Trifluorotoluene (S)	100	%	80-120		1		04/20/11 18:02	98-08-8	
6010 MET ICP, Dissolved		Analytical Method: EPA 6010							
Lead, Dissolved	2.5J	ug/L	7.5	1.7	1		04/20/11 14:20	7439-92-1	

ANALYTICAL RESULTS

Project: 06343.01.001 WisDOT-STH 76

Pace Project No.: 4044707

Sample: TRIP BLANK **Lab ID: 4044707008** Collected: 04/14/11 00:00 Received: 04/16/11 08:15 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV		Analytical Method: WI MOD GRO							
Benzene	<0.39	ug/L	1.0	0.39	1		04/19/11 12:12	71-43-2	
Ethylbenzene	<0.41	ug/L	1.0	0.41	1		04/19/11 12:12	100-41-4	
Methyl-tert-butyl ether	<0.38	ug/L	1.0	0.38	1		04/19/11 12:12	1634-04-4	
Toluene	<0.42	ug/L	1.0	0.42	1		04/19/11 12:12	108-88-3	
1,2,4-Trimethylbenzene	<0.43	ug/L	1.0	0.43	1		04/19/11 12:12	95-63-6	
1,3,5-Trimethylbenzene	<0.40	ug/L	1.0	0.40	1		04/19/11 12:12	108-67-8	
m&p-Xylene	<0.87	ug/L	2.0	0.87	1		04/19/11 12:12	179601-23-1	
o-Xylene	<0.38	ug/L	1.0	0.38	1		04/19/11 12:12	95-47-6	
a,a,a-Trifluorotoluene (S)	101	%	80-120		1		04/19/11 12:12	98-08-8	

QUALITY CONTROL DATA

Project: 06343.01.001 WisDOT-STH 76
Pace Project No.: 4044707

QC Batch: GCV/6529 Analysis Method: WI MOD GRO
QC Batch Method: WI MOD GRO Analysis Description: WIGRO GCV Water
Associated Lab Samples: 4044707008

METHOD BLANK: 438190 Matrix: Water
Associated Lab Samples: 4044707008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2,4-Trimethylbenzene	ug/L	<0.43	1.0	04/19/11 07:03	
1,3,5-Trimethylbenzene	ug/L	<0.40	1.0	04/19/11 07:03	
Benzene	ug/L	<0.39	1.0	04/19/11 07:03	
Ethylbenzene	ug/L	<0.41	1.0	04/19/11 07:03	
m&p-Xylene	ug/L	<0.87	2.0	04/19/11 07:03	
Methyl-tert-butyl ether	ug/L	<0.38	1.0	04/19/11 07:03	
o-Xylene	ug/L	<0.38	1.0	04/19/11 07:03	
Toluene	ug/L	<0.42	1.0	04/19/11 07:03	
a,a,a-Trifluorotoluene (S)	%	101	80-120	04/19/11 07:03	

LABORATORY CONTROL SAMPLE & LCSD: 438191

438192

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
1,2,4-Trimethylbenzene	ug/L	20	20.9	20.1	105	100	80-120	4	20	
1,3,5-Trimethylbenzene	ug/L	20	21.0	20.1	105	101	80-120	4	20	
Benzene	ug/L	20	21.5	20.6	108	103	80-120	4	20	
Ethylbenzene	ug/L	20	21.0	20.2	105	101	80-120	4	20	
m&p-Xylene	ug/L	40	41.4	40.0	104	100	80-120	4	20	
Methyl-tert-butyl ether	ug/L	20	21.4	20.4	107	102	80-120	5	20	
o-Xylene	ug/L	20	20.6	20.0	103	100	80-120	3	20	
Toluene	ug/L	20	21.1	20.2	105	101	80-120	4	20	
a,a,a-Trifluorotoluene (S)	%				99	99	80-120			

QUALITY CONTROL DATA

Project: 06343.01.001 WisDOT-STH 76
Pace Project No.: 4044707

QC Batch: GCV/6538 Analysis Method: WI MOD GRO
QC Batch Method: WI MOD GRO Analysis Description: WIGRO GCV Water
Associated Lab Samples: 4044707001, 4044707002, 4044707003, 4044707004, 4044707005, 4044707006, 4044707007

METHOD BLANK: 438866 Matrix: Water
Associated Lab Samples: 4044707001, 4044707002, 4044707003, 4044707004, 4044707005, 4044707006, 4044707007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2,4-Trimethylbenzene	ug/L	<0.43	1.0	04/20/11 10:20	
1,3,5-Trimethylbenzene	ug/L	<0.40	1.0	04/20/11 10:20	
Benzene	ug/L	<0.39	1.0	04/20/11 10:20	
Ethylbenzene	ug/L	<0.41	1.0	04/20/11 10:20	
m&p-Xylene	ug/L	<0.87	2.0	04/20/11 10:20	
Methyl-tert-butyl ether	ug/L	<0.38	1.0	04/20/11 10:20	
o-Xylene	ug/L	<0.38	1.0	04/20/11 10:20	
Toluene	ug/L	<0.42	1.0	04/20/11 10:20	
a,a,a-Trifluorotoluene (S)	%	101	80-120	04/20/11 10:20	

LABORATORY CONTROL SAMPLE & LCSD: 438867 438868

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
1,2,4-Trimethylbenzene	ug/L	20	20.9	20.3	105	102	80-120	3	20	
1,3,5-Trimethylbenzene	ug/L	20	20.9	20.4	104	102	80-120	3	20	
Benzene	ug/L	20	21.5	20.9	107	105	80-120	2	20	
Ethylbenzene	ug/L	20	21.2	20.5	106	103	80-120	3	20	
m&p-Xylene	ug/L	40	41.8	40.5	105	101	80-120	3	20	
Methyl-tert-butyl ether	ug/L	20	21.2	21.1	106	106	80-120	.3	20	
o-Xylene	ug/L	20	20.7	20.0	104	100	80-120	4	20	
Toluene	ug/L	20	21.2	20.7	106	103	80-120	3	20	
a,a,a-Trifluorotoluene (S)	%				100	100	80-120			

QUALITY CONTROL DATA

Project: 06343.01.001 WisDOT-STH 76
Pace Project No.: 4044707

QC Batch: ICP/4469 Analysis Method: EPA 6010
QC Batch Method: EPA 6010 Analysis Description: ICP Metals, Trace, Dissolved
Associated Lab Samples: 4044707001, 4044707002, 4044707003, 4044707004, 4044707005, 4044707006, 4044707007

METHOD BLANK: 438816 Matrix: Water
Associated Lab Samples: 4044707001, 4044707002, 4044707003, 4044707004, 4044707005, 4044707006, 4044707007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Lead, Dissolved	ug/L	<1.7	7.5	04/20/11 13:20	

LABORATORY CONTROL SAMPLE: 438817

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lead, Dissolved	ug/L	500	472	94	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 438818 438819

Parameter	Units	4044606001		438818		438819		% Rec Limits	RPD	Max RPD	Qual
		MS Result	MS Spike Conc.	MS Result	MS Spike Conc.	MS Result	MS Spike Conc.				
Lead, Dissolved	ug/L	<1.7	500	500	459	466	92	93	75-125	1	20

QUALIFIERS

Project: 06343.01.001 WisDOT-STH 76
Pace Project No.: 4044707

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.

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 NELAP accredited. Contact your Pace PM for the current list of accredited analytes.

LABORATORIES

PASI-G Pace Analytical Services - Green Bay

BATCH QUALIFIERS

Batch: GCV/6529

[M5] A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

Batch: GCV/6538

[M5] A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

(Please Print Clearly)

Company Name: RMT INC
 Branch/Location: MADISON
 Project Contact: T. O'Connell / D. Healy
 Phone: 608-831-4444
 Project Number: 06343.01.001
 Project Name: WSDOT - STA 76
 Project State: WI
 Sampled By (Print): T. O'Connell
 Sampled By (Sign): [Signature]
 PO #: [Blank]
 Regulatory Program: [Blank]

Data Package Options
 EPA Level III
 EPA Level IV

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

Matrix Codes
 A = Air
 B = Biota
 C = Charcoal
 O = Oil
 S = Soil
 SI = Sludge
 W = Water
 DW = Drinking Water
 GW = Ground Water
 SW = Surface Water
 WW = Waste Water
 WP = Wipe

CLIENT FIELD ID
 001 MW-1
 002 MW-2
 003 MW-3
 004 MW-4
 005 MW-5
 006 PW-TWISTERS
 007 PW-N3671
 008 Trip Blank

COLLECTION
 DATE: 4/11/11
 TIME: 1405
 MATRIX: GW



CHAIN OF CUSTODY

Preservation Codes
 A=NONE B=HCL C=H2SO4 D=HNO3 E=D1 Water F=Methanol G=NaOH
 H= Sodium Bisulfate Solution I= Sodium Thiosulfate J= Other

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

Analyses Requested

ANALYSIS	REQ	LAB
PVOCs	B	D
Dissolved Pb	X	X

LAB USE ONLY	PROFILE #	LAB COMMENTS
1-250 mL D, 3-40 mL HCl		
2-40 mL HCl (Added by Lab)		

Quote #: 4644707
 Mail To Contact: [Blank]
 Mail To Company: [Blank]
 Mail To Address: [Blank]
 Invoice To Contact: Dan Healy
 Invoice To Company: RMT INC
 Invoice To Address: 744 HEARTLAND DR. MADISON WI 53717
 Invoice To Phone: 608-831-4444
 CLIENT COMMENTS: [Blank]

Rush Turnaround Time Requested - Prelims (Rush TAT subject to approval/surcharge)
 Date Needed: [Blank]
 Transmit Prelim Rush Results by (complete what you want): [Blank]
 Email #1: [Blank]
 Email #2: [Blank]
 Telephone: [Blank]
 Fax: [Blank]

Reinquired By: [Signature]
 Date/Time: 4/15/11 1000
 Reinquished By: Wafco
 Date/Time: 4-16-11 8:15 A

Received By: RMT COOPER
 Date/Time: 4/15/11 1000
 Received By: Mark N. Spahr
 Date/Time: 4-16-11 8:15 A

PAGE Project No. 4044707
 Receipt Temp = [Blank] °C
 Sample Receipt pH [Blank]
 OK / Adjusted [Blank]
 Cooler Custody Seal Present / Not Present Intact / Not Intact



Sample Condition Upon Receipt

Client Name: RMT Project # 4044707

Courier: Fed Ex UPS USPS Client Commercial 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 ROI Biological Tissue is Frozen: yes no

Temp Blank Present: yes no

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

Optional
 Proj. Due Date:
 Proj. Name:

Person examining contents:
 Date: 4-16-11
 Initials: MWJ

Comments:

Chain of Custody Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.
Chain of Custody Filled Out:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.
Chain of Custody Relinquished:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3.
Sampler Name & Signature on COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4.
Samples Arrived within Hold Time:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	5.
Short Hold Time Analysis (<72hr):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	6.
Rush Turn Around Time Requested:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	7.
Sufficient Volume:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	8.
Correct Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.
-Pace Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
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 checked="" type="checkbox"/> No <input type="checkbox"/> N/A	11.
Sample Labels match COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	12.
-Includes date/time/ID/Analysis Matrix:	<u>W</u>	
All containers needing preservation have been checked.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	13.
All containers needing preservation are found to be in compliance with EPA recommendation.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
exceptions: VOA, coliform, TOC, O&G, WI-DRO (water)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Initial when completed
		Lot # of added preservative
Samples checked for dechlorination:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	14.
Headspace in VOA Vials (>6mm):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	15.
Trip Blank Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	16.
Trip Blank Custody Seals Present	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Pace Trip Blank Lot # (if purchased):		

Client Notification/ Resolution:

Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: [Signature] Date: 4-18-11

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

October 04, 2011

MARK WALTER
TRC - MADISON
744 HEARTLAND TRAIL
Madison, WI 53717

RE: Project: 005133.0000.0000 WISDOT-STH 76
Pace Project No.: 4051370

Dear MARK WALTER:

Enclosed are the analytical results for sample(s) received by the laboratory on September 27, 2011. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards, where applicable, unless otherwise narrated 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

cc: TED O'CONNELL, TRC - MADISON
ALYSSA SELLWOOD, TRC - Madison



REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

CERTIFICATIONS

Project: 005133.0000.0000 WISDOT-STH 76

Pace Project No.: 4051370

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 Carolina Certification #: 503

North Dakota Certification #: R-150

South Carolina Certification #: 83006001

US Dept of Agriculture #: S-76505

Wisconsin Certification #: 405132750

Wisconsin DATCP Certification #: 105-444

SAMPLE SUMMARY

Project: 005133.0000.0000 WISDOT-STH 76

Pace Project No.: 4051370

Lab ID	Sample ID	Matrix	Date Collected	Date Received
4051370001	MW-4	Water	09/22/11 09:35	09/27/11 09:00
4051370002	MW-5	Water	09/22/11 10:40	09/27/11 09:00
4051370003	MW-1	Water	09/22/11 11:55	09/27/11 09:00
4051370004	MW-2	Water	09/22/11 13:35	09/27/11 09:00
4051370005	MW-3	Water	09/22/11 14:30	09/27/11 09:00

REPORT OF LABORATORY ANALYSIS

SAMPLE ANALYTE COUNT

Project: 005133.0000.0000 WISDOT-STH 76

Pace Project No.: 4051370

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
4051370001	MW-4	EPA 6010	DLB	7	PASI-G
		EPA 7470	CMS	1	PASI-G
		EPA 8260	SMT	64	PASI-G
4051370002	MW-5	EPA 6010	DLB	7	PASI-G
		EPA 7470	CMS	1	PASI-G
		EPA 8260	SMT	64	PASI-G
4051370003	MW-1	EPA 6010	DLB	7	PASI-G
		EPA 7470	CMS	1	PASI-G
		EPA 8260	SMT	64	PASI-G
4051370004	MW-2	EPA 6010	DLB	7	PASI-G
		EPA 7470	CMS	1	PASI-G
		EPA 8260	SMT	64	PASI-G
4051370005	MW-3	EPA 6010	DLB	7	PASI-G
		EPA 7470	CMS	1	PASI-G
		EPA 8260	SMT	64	PASI-G

REPORT OF LABORATORY ANALYSIS

PROJECT NARRATIVE

Project: 005133.0000.0000 WISDOT-STH 76
Pace Project No.: 4051370

Method: EPA 6010
Description: 6010 MET ICP, Dissolved
Client: TRC - MADISON
Date: October 04, 2011

General Information:

5 samples were analyzed for EPA 6010. 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.

Method Blank:

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

Laboratory Control Spike:

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

Matrix Spikes:

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

Duplicate Sample:

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

Additional Comments:

REPORT OF LABORATORY ANALYSIS

PROJECT NARRATIVE

Project: 005133.0000.0000 WISDOT-STH 76
Pace Project No.: 4051370

Method: EPA 7470
Description: 7470 Mercury, Dissolved
Client: TRC - MADISON
Date: October 04, 2011

General Information:

5 samples were analyzed for EPA 7470. 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 EPA 7470 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.

Method Blank:

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

Laboratory Control Spike:

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

Matrix Spikes:

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

QC Batch: MERP/2730

A matrix spike and matrix spike duplicate (MS/MSD) were performed on the following sample(s): 4051239001

M0: Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.

- MS (Lab ID: 510390)
 - Mercury, Dissolved
- MSD (Lab ID: 510391)
 - Mercury, Dissolved

Duplicate Sample:

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

Additional Comments:

REPORT OF LABORATORY ANALYSIS

PROJECT NARRATIVE

Project: 005133.0000.0000 WISDOT-STH 76

Pace Project No.: 4051370

Method: EPA 8260

Description: 8260 MSV

Client: TRC - MADISON

Date: October 04, 2011

General Information:

5 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 with any exceptions noted below.

Laboratory Control Spike:

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

Matrix Spikes:

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

Duplicate Sample:

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

Additional Comments:

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

REPORT OF LABORATORY ANALYSIS

ANALYTICAL RESULTS

Project: 005133.0000.0000 WISDOT-STH 76

Pace Project No.: 4051370

Sample: MW-4 **Lab ID: 4051370001** Collected: 09/22/11 09:35 Received: 09/27/11 09:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Dissolved									
Analytical Method: EPA 6010									
Arsenic, Dissolved	3.2J	ug/L	20.0	2.0	1		10/01/11 03:44	7440-38-2	
Barium, Dissolved	181	ug/L	5.0	0.70	1		10/01/11 03:44	7440-39-3	
Cadmium, Dissolved	<0.13	ug/L	5.0	0.13	1		10/01/11 03:44	7440-43-9	
Chromium, Dissolved	<0.44	ug/L	5.0	0.44	1		10/01/11 03:44	7440-47-3	
Lead, Dissolved	3.1J	ug/L	7.5	1.5	1		10/01/11 03:44	7439-92-1	
Selenium, Dissolved	<1.9	ug/L	20.0	1.9	1		10/01/11 03:44	7782-49-2	
Silver, Dissolved	<0.46	ug/L	10.0	0.46	1		10/01/11 03:44	7440-22-4	
7470 Mercury, Dissolved									
Analytical Method: EPA 7470 Preparation Method: EPA 7470									
Mercury, Dissolved	<0.10	ug/L	0.20	0.10	1	09/29/11 13:18	09/30/11 14:40	7439-97-6	
8260 MSV									
Analytical Method: EPA 8260									
Benzene	0.80J	ug/L	1.0	0.41	1		09/28/11 15:30	71-43-2	
Bromobenzene	<0.82	ug/L	1.0	0.82	1		09/28/11 15:30	108-86-1	
Bromochloromethane	<0.97	ug/L	1.0	0.97	1		09/28/11 15:30	74-97-5	
Bromodichloromethane	<0.56	ug/L	1.0	0.56	1		09/28/11 15:30	75-27-4	
Bromoform	<0.94	ug/L	1.0	0.94	1		09/28/11 15:30	75-25-2	
Bromomethane	<0.91	ug/L	1.0	0.91	1		09/28/11 15:30	74-83-9	
n-Butylbenzene	<0.93	ug/L	1.0	0.93	1		09/28/11 15:30	104-51-8	
sec-Butylbenzene	<0.89	ug/L	5.0	0.89	1		09/28/11 15:30	135-98-8	
tert-Butylbenzene	<0.97	ug/L	1.0	0.97	1		09/28/11 15:30	98-06-6	
Carbon tetrachloride	<0.49	ug/L	1.0	0.49	1		09/28/11 15:30	56-23-5	
Chlorobenzene	<0.41	ug/L	1.0	0.41	1		09/28/11 15:30	108-90-7	
Chloroethane	<0.97	ug/L	1.0	0.97	1		09/28/11 15:30	75-00-3	
Chloroform	<1.3	ug/L	5.0	1.3	1		09/28/11 15:30	67-66-3	
Chloromethane	<0.24	ug/L	1.0	0.24	1		09/28/11 15:30	74-87-3	
2-Chlorotoluene	<0.85	ug/L	1.0	0.85	1		09/28/11 15:30	95-49-8	
4-Chlorotoluene	<0.74	ug/L	1.0	0.74	1		09/28/11 15:30	106-43-4	
1,2-Dibromo-3-chloropropane	<1.7	ug/L	5.0	1.7	1		09/28/11 15:30	96-12-8	
Dibromochloromethane	<0.81	ug/L	1.0	0.81	1		09/28/11 15:30	124-48-1	
1,2-Dibromoethane (EDB)	<0.56	ug/L	1.0	0.56	1		09/28/11 15:30	106-93-4	
Dibromomethane	<0.60	ug/L	1.0	0.60	1		09/28/11 15:30	74-95-3	
1,2-Dichlorobenzene	<0.83	ug/L	1.0	0.83	1		09/28/11 15:30	95-50-1	
1,3-Dichlorobenzene	<0.87	ug/L	1.0	0.87	1		09/28/11 15:30	541-73-1	
1,4-Dichlorobenzene	<0.95	ug/L	1.0	0.95	1		09/28/11 15:30	106-46-7	
Dichlorodifluoromethane	<0.99	ug/L	1.0	0.99	1		09/28/11 15:30	75-71-8	
1,1-Dichloroethane	<0.75	ug/L	1.0	0.75	1		09/28/11 15:30	75-34-3	
1,2-Dichloroethane	<0.36	ug/L	1.0	0.36	1		09/28/11 15:30	107-06-2	
1,1-Dichloroethene	<0.57	ug/L	1.0	0.57	1		09/28/11 15:30	75-35-4	
cis-1,2-Dichloroethene	<0.83	ug/L	1.0	0.83	1		09/28/11 15:30	156-59-2	
trans-1,2-Dichloroethene	<0.89	ug/L	1.0	0.89	1		09/28/11 15:30	156-60-5	
1,2-Dichloropropane	<0.49	ug/L	1.0	0.49	1		09/28/11 15:30	78-87-5	
1,3-Dichloropropane	<0.61	ug/L	1.0	0.61	1		09/28/11 15:30	142-28-9	
2,2-Dichloropropane	<0.62	ug/L	1.0	0.62	1		09/28/11 15:30	594-20-7	
1,1-Dichloropropene	<0.75	ug/L	1.0	0.75	1		09/28/11 15:30	563-58-6	
cis-1,3-Dichloropropene	<0.20	ug/L	1.0	0.20	1		09/28/11 15:30	10061-01-5	

Date: 10/04/2011 03:29 PM

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 005133.0000.0000 WISDOT-STH 76

Pace Project No.: 4051370

Sample: MW-4 **Lab ID: 4051370001** Collected: 09/22/11 09:35 Received: 09/27/11 09:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
trans-1,3-Dichloropropene	<0.19	ug/L	1.0	0.19	1		09/28/11 15:30	10061-02-6	
Diisopropyl ether	<0.76	ug/L	1.0	0.76	1		09/28/11 15:30	108-20-3	
Ethylbenzene	<0.54	ug/L	1.0	0.54	1		09/28/11 15:30	100-41-4	
Hexachloro-1,3-butadiene	<0.67	ug/L	5.0	0.67	1		09/28/11 15:30	87-68-3	
Isopropylbenzene (Cumene)	<0.59	ug/L	1.0	0.59	1		09/28/11 15:30	98-82-8	
p-Isopropyltoluene	<0.67	ug/L	1.0	0.67	1		09/28/11 15:30	99-87-6	
Methylene Chloride	<0.43	ug/L	1.0	0.43	1		09/28/11 15:30	75-09-2	
Methyl-tert-butyl ether	<0.61	ug/L	1.0	0.61	1		09/28/11 15:30	1634-04-4	
Naphthalene	<0.89	ug/L	5.0	0.89	1		09/28/11 15:30	91-20-3	
n-Propylbenzene	<0.81	ug/L	1.0	0.81	1		09/28/11 15:30	103-65-1	
Styrene	<0.86	ug/L	1.0	0.86	1		09/28/11 15:30	100-42-5	
1,1,1,2-Tetrachloroethane	<0.92	ug/L	1.0	0.92	1		09/28/11 15:30	630-20-6	
1,1,2,2-Tetrachloroethane	<0.20	ug/L	1.0	0.20	1		09/28/11 15:30	79-34-5	
Tetrachloroethene	<0.45	ug/L	1.0	0.45	1		09/28/11 15:30	127-18-4	
Toluene	<0.67	ug/L	1.0	0.67	1		09/28/11 15:30	108-88-3	
1,2,3-Trichlorobenzene	<0.74	ug/L	1.0	0.74	1		09/28/11 15:30	87-61-6	
1,2,4-Trichlorobenzene	<0.97	ug/L	5.0	0.97	1		09/28/11 15:30	120-82-1	
1,1,1-Trichloroethane	<0.90	ug/L	1.0	0.90	1		09/28/11 15:30	71-55-6	
1,1,2-Trichloroethane	<0.42	ug/L	1.0	0.42	1		09/28/11 15:30	79-00-5	
Trichloroethene	<0.48	ug/L	1.0	0.48	1		09/28/11 15:30	79-01-6	
Trichlorofluoromethane	<0.79	ug/L	1.0	0.79	1		09/28/11 15:30	75-69-4	
1,2,3-Trichloropropane	<0.99	ug/L	1.0	0.99	1		09/28/11 15:30	96-18-4	
1,2,4-Trimethylbenzene	<0.97	ug/L	1.0	0.97	1		09/28/11 15:30	95-63-6	
1,3,5-Trimethylbenzene	<0.83	ug/L	1.0	0.83	1		09/28/11 15:30	108-67-8	
Vinyl chloride	<0.18	ug/L	1.0	0.18	1		09/28/11 15:30	75-01-4	
m&p-Xylene	<1.8	ug/L	2.0	1.8	1		09/28/11 15:30	179601-23-1	
o-Xylene	<0.83	ug/L	1.0	0.83	1		09/28/11 15:30	95-47-6	
4-Bromofluorobenzene (S)	80	%	70-130		1		09/28/11 15:30	460-00-4	
Dibromofluoromethane (S)	102	%	70-130		1		09/28/11 15:30	1868-53-7	
Toluene-d8 (S)	81	%	70-130		1		09/28/11 15:30	2037-26-5	

ANALYTICAL RESULTS

Project: 005133.0000.0000 WISDOT-STH 76

Pace Project No.: 4051370

Sample: MW-5 **Lab ID: 4051370002** Collected: 09/22/11 10:40 Received: 09/27/11 09:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Dissolved									
Analytical Method: EPA 6010									
Arsenic, Dissolved	2.6J	ug/L	20.0	2.0	1		10/01/11 03:56	7440-38-2	
Barium, Dissolved	152	ug/L	5.0	0.70	1		10/01/11 03:56	7440-39-3	
Cadmium, Dissolved	0.30J	ug/L	5.0	0.13	1		10/01/11 03:56	7440-43-9	
Chromium, Dissolved	1.5J	ug/L	5.0	0.44	1		10/01/11 03:56	7440-47-3	
Lead, Dissolved	2.8J	ug/L	7.5	1.5	1		10/01/11 03:56	7439-92-1	
Selenium, Dissolved	2.1J	ug/L	20.0	1.9	1		10/01/11 03:56	7782-49-2	
Silver, Dissolved	0.68J	ug/L	10.0	0.46	1		10/01/11 03:56	7440-22-4	B
7470 Mercury, Dissolved									
Analytical Method: EPA 7470 Preparation Method: EPA 7470									
Mercury, Dissolved	<0.10	ug/L	0.20	0.10	1	09/29/11 13:18	09/30/11 14:42	7439-97-6	
8260 MSV									
Analytical Method: EPA 8260									
Benzene	<0.41	ug/L	1.0	0.41	1		09/28/11 15:52	71-43-2	
Bromobenzene	<0.82	ug/L	1.0	0.82	1		09/28/11 15:52	108-86-1	
Bromochloromethane	<0.97	ug/L	1.0	0.97	1		09/28/11 15:52	74-97-5	
Bromodichloromethane	<0.56	ug/L	1.0	0.56	1		09/28/11 15:52	75-27-4	
Bromoform	<0.94	ug/L	1.0	0.94	1		09/28/11 15:52	75-25-2	
Bromomethane	<0.91	ug/L	1.0	0.91	1		09/28/11 15:52	74-83-9	
n-Butylbenzene	<0.93	ug/L	1.0	0.93	1		09/28/11 15:52	104-51-8	
sec-Butylbenzene	<0.89	ug/L	5.0	0.89	1		09/28/11 15:52	135-98-8	
tert-Butylbenzene	<0.97	ug/L	1.0	0.97	1		09/28/11 15:52	98-06-6	
Carbon tetrachloride	<0.49	ug/L	1.0	0.49	1		09/28/11 15:52	56-23-5	
Chlorobenzene	<0.41	ug/L	1.0	0.41	1		09/28/11 15:52	108-90-7	
Chloroethane	<0.97	ug/L	1.0	0.97	1		09/28/11 15:52	75-00-3	
Chloroform	<1.3	ug/L	5.0	1.3	1		09/28/11 15:52	67-66-3	
Chloromethane	<0.24	ug/L	1.0	0.24	1		09/28/11 15:52	74-87-3	
2-Chlorotoluene	<0.85	ug/L	1.0	0.85	1		09/28/11 15:52	95-49-8	
4-Chlorotoluene	<0.74	ug/L	1.0	0.74	1		09/28/11 15:52	106-43-4	
1,2-Dibromo-3-chloropropane	<1.7	ug/L	5.0	1.7	1		09/28/11 15:52	96-12-8	
Dibromochloromethane	<0.81	ug/L	1.0	0.81	1		09/28/11 15:52	124-48-1	
1,2-Dibromoethane (EDB)	<0.56	ug/L	1.0	0.56	1		09/28/11 15:52	106-93-4	
Dibromomethane	<0.60	ug/L	1.0	0.60	1		09/28/11 15:52	74-95-3	
1,2-Dichlorobenzene	<0.83	ug/L	1.0	0.83	1		09/28/11 15:52	95-50-1	
1,3-Dichlorobenzene	<0.87	ug/L	1.0	0.87	1		09/28/11 15:52	541-73-1	
1,4-Dichlorobenzene	<0.95	ug/L	1.0	0.95	1		09/28/11 15:52	106-46-7	
Dichlorodifluoromethane	<0.99	ug/L	1.0	0.99	1		09/28/11 15:52	75-71-8	
1,1-Dichloroethane	<0.75	ug/L	1.0	0.75	1		09/28/11 15:52	75-34-3	
1,2-Dichloroethane	<0.36	ug/L	1.0	0.36	1		09/28/11 15:52	107-06-2	
1,1-Dichloroethene	<0.57	ug/L	1.0	0.57	1		09/28/11 15:52	75-35-4	
cis-1,2-Dichloroethene	<0.83	ug/L	1.0	0.83	1		09/28/11 15:52	156-59-2	
trans-1,2-Dichloroethene	<0.89	ug/L	1.0	0.89	1		09/28/11 15:52	156-60-5	
1,2-Dichloropropane	<0.49	ug/L	1.0	0.49	1		09/28/11 15:52	78-87-5	
1,3-Dichloropropane	<0.61	ug/L	1.0	0.61	1		09/28/11 15:52	142-28-9	
2,2-Dichloropropane	<0.62	ug/L	1.0	0.62	1		09/28/11 15:52	594-20-7	
1,1-Dichloropropene	<0.75	ug/L	1.0	0.75	1		09/28/11 15:52	563-58-6	
cis-1,3-Dichloropropene	<0.20	ug/L	1.0	0.20	1		09/28/11 15:52	10061-01-5	

ANALYTICAL RESULTS

Project: 005133.0000.0000 WISDOT-STH 76

Pace Project No.: 4051370

Sample: MW-5 **Lab ID: 4051370002** Collected: 09/22/11 10:40 Received: 09/27/11 09:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
trans-1,3-Dichloropropene	<0.19	ug/L	1.0	0.19	1		09/28/11 15:52	10061-02-6	
Diisopropyl ether	<0.76	ug/L	1.0	0.76	1		09/28/11 15:52	108-20-3	
Ethylbenzene	<0.54	ug/L	1.0	0.54	1		09/28/11 15:52	100-41-4	
Hexachloro-1,3-butadiene	<0.67	ug/L	5.0	0.67	1		09/28/11 15:52	87-68-3	
Isopropylbenzene (Cumene)	<0.59	ug/L	1.0	0.59	1		09/28/11 15:52	98-82-8	
p-Isopropyltoluene	<0.67	ug/L	1.0	0.67	1		09/28/11 15:52	99-87-6	
Methylene Chloride	<0.43	ug/L	1.0	0.43	1		09/28/11 15:52	75-09-2	
Methyl-tert-butyl ether	<0.61	ug/L	1.0	0.61	1		09/28/11 15:52	1634-04-4	
Naphthalene	<0.89	ug/L	5.0	0.89	1		09/28/11 15:52	91-20-3	
n-Propylbenzene	<0.81	ug/L	1.0	0.81	1		09/28/11 15:52	103-65-1	
Styrene	<0.86	ug/L	1.0	0.86	1		09/28/11 15:52	100-42-5	
1,1,1,2-Tetrachloroethane	<0.92	ug/L	1.0	0.92	1		09/28/11 15:52	630-20-6	
1,1,2,2-Tetrachloroethane	<0.20	ug/L	1.0	0.20	1		09/28/11 15:52	79-34-5	
Tetrachloroethene	<0.45	ug/L	1.0	0.45	1		09/28/11 15:52	127-18-4	
Toluene	<0.67	ug/L	1.0	0.67	1		09/28/11 15:52	108-88-3	
1,2,3-Trichlorobenzene	<0.74	ug/L	1.0	0.74	1		09/28/11 15:52	87-61-6	
1,2,4-Trichlorobenzene	<0.97	ug/L	5.0	0.97	1		09/28/11 15:52	120-82-1	
1,1,1-Trichloroethane	<0.90	ug/L	1.0	0.90	1		09/28/11 15:52	71-55-6	
1,1,2-Trichloroethane	<0.42	ug/L	1.0	0.42	1		09/28/11 15:52	79-00-5	
Trichloroethene	<0.48	ug/L	1.0	0.48	1		09/28/11 15:52	79-01-6	
Trichlorofluoromethane	<0.79	ug/L	1.0	0.79	1		09/28/11 15:52	75-69-4	
1,2,3-Trichloropropane	<0.99	ug/L	1.0	0.99	1		09/28/11 15:52	96-18-4	
1,2,4-Trimethylbenzene	<0.97	ug/L	1.0	0.97	1		09/28/11 15:52	95-63-6	
1,3,5-Trimethylbenzene	<0.83	ug/L	1.0	0.83	1		09/28/11 15:52	108-67-8	
Vinyl chloride	<0.18	ug/L	1.0	0.18	1		09/28/11 15:52	75-01-4	
m&p-Xylene	<1.8	ug/L	2.0	1.8	1		09/28/11 15:52	179601-23-1	
o-Xylene	<0.83	ug/L	1.0	0.83	1		09/28/11 15:52	95-47-6	
4-Bromofluorobenzene (S)	81	%	70-130		1		09/28/11 15:52	460-00-4	
Dibromofluoromethane (S)	102	%	70-130		1		09/28/11 15:52	1868-53-7	
Toluene-d8 (S)	83	%	70-130		1		09/28/11 15:52	2037-26-5	

ANALYTICAL RESULTS

Project: 005133.0000.0000 WISDOT-STH 76

Pace Project No.: 4051370

Sample: MW-1 **Lab ID: 4051370003** Collected: 09/22/11 11:55 Received: 09/27/11 09:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Dissolved Analytical Method: EPA 6010									
Arsenic, Dissolved	<2.0	ug/L	20.0	2.0	1		10/01/11 04:00	7440-38-2	
Barium, Dissolved	51.7	ug/L	5.0	0.70	1		10/01/11 04:00	7440-39-3	
Cadmium, Dissolved	<0.13	ug/L	5.0	0.13	1		10/01/11 04:00	7440-43-9	
Chromium, Dissolved	<0.44	ug/L	5.0	0.44	1		10/01/11 04:00	7440-47-3	
Lead, Dissolved	3.0J	ug/L	7.5	1.5	1		10/01/11 04:00	7439-92-1	
Selenium, Dissolved	<1.9	ug/L	20.0	1.9	1		10/01/11 04:00	7782-49-2	
Silver, Dissolved	0.63J	ug/L	10.0	0.46	1		10/01/11 04:00	7440-22-4	B
7470 Mercury, Dissolved Analytical Method: EPA 7470 Preparation Method: EPA 7470									
Mercury, Dissolved	<0.10	ug/L	0.20	0.10	1	09/29/11 13:18	09/30/11 14:44	7439-97-6	
8260 MSV Analytical Method: EPA 8260									
Benzene	<0.41	ug/L	1.0	0.41	1		09/28/11 19:03	71-43-2	
Bromobenzene	<0.82	ug/L	1.0	0.82	1		09/28/11 19:03	108-86-1	
Bromochloromethane	<0.97	ug/L	1.0	0.97	1		09/28/11 19:03	74-97-5	
Bromodichloromethane	<0.56	ug/L	1.0	0.56	1		09/28/11 19:03	75-27-4	
Bromoform	<0.94	ug/L	1.0	0.94	1		09/28/11 19:03	75-25-2	
Bromomethane	<0.91	ug/L	1.0	0.91	1		09/28/11 19:03	74-83-9	
n-Butylbenzene	<0.93	ug/L	1.0	0.93	1		09/28/11 19:03	104-51-8	
sec-Butylbenzene	<0.89	ug/L	5.0	0.89	1		09/28/11 19:03	135-98-8	
tert-Butylbenzene	<0.97	ug/L	1.0	0.97	1		09/28/11 19:03	98-06-6	
Carbon tetrachloride	<0.49	ug/L	1.0	0.49	1		09/28/11 19:03	56-23-5	
Chlorobenzene	<0.41	ug/L	1.0	0.41	1		09/28/11 19:03	108-90-7	
Chloroethane	<0.97	ug/L	1.0	0.97	1		09/28/11 19:03	75-00-3	
Chloroform	<1.3	ug/L	5.0	1.3	1		09/28/11 19:03	67-66-3	
Chloromethane	<0.24	ug/L	1.0	0.24	1		09/28/11 19:03	74-87-3	
2-Chlorotoluene	<0.85	ug/L	1.0	0.85	1		09/28/11 19:03	95-49-8	
4-Chlorotoluene	<0.74	ug/L	1.0	0.74	1		09/28/11 19:03	106-43-4	
1,2-Dibromo-3-chloropropane	<1.7	ug/L	5.0	1.7	1		09/28/11 19:03	96-12-8	
Dibromochloromethane	<0.81	ug/L	1.0	0.81	1		09/28/11 19:03	124-48-1	
1,2-Dibromoethane (EDB)	<0.56	ug/L	1.0	0.56	1		09/28/11 19:03	106-93-4	
Dibromomethane	<0.60	ug/L	1.0	0.60	1		09/28/11 19:03	74-95-3	
1,2-Dichlorobenzene	<0.83	ug/L	1.0	0.83	1		09/28/11 19:03	95-50-1	
1,3-Dichlorobenzene	<0.87	ug/L	1.0	0.87	1		09/28/11 19:03	541-73-1	
1,4-Dichlorobenzene	<0.95	ug/L	1.0	0.95	1		09/28/11 19:03	106-46-7	
Dichlorodifluoromethane	<0.99	ug/L	1.0	0.99	1		09/28/11 19:03	75-71-8	
1,1-Dichloroethane	<0.75	ug/L	1.0	0.75	1		09/28/11 19:03	75-34-3	
1,2-Dichloroethane	<0.36	ug/L	1.0	0.36	1		09/28/11 19:03	107-06-2	
1,1-Dichloroethene	<0.57	ug/L	1.0	0.57	1		09/28/11 19:03	75-35-4	
cis-1,2-Dichloroethene	<0.83	ug/L	1.0	0.83	1		09/28/11 19:03	156-59-2	
trans-1,2-Dichloroethene	<0.89	ug/L	1.0	0.89	1		09/28/11 19:03	156-60-5	
1,2-Dichloropropane	<0.49	ug/L	1.0	0.49	1		09/28/11 19:03	78-87-5	
1,3-Dichloropropane	<0.61	ug/L	1.0	0.61	1		09/28/11 19:03	142-28-9	
2,2-Dichloropropane	<0.62	ug/L	1.0	0.62	1		09/28/11 19:03	594-20-7	
1,1-Dichloropropene	<0.75	ug/L	1.0	0.75	1		09/28/11 19:03	563-58-6	
cis-1,3-Dichloropropene	<0.20	ug/L	1.0	0.20	1		09/28/11 19:03	10061-01-5	

ANALYTICAL RESULTS

Project: 005133.0000.0000 WISDOT-STH 76

Pace Project No.: 4051370

Sample: MW-1 **Lab ID: 4051370003** Collected: 09/22/11 11:55 Received: 09/27/11 09:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
trans-1,3-Dichloropropene	<0.19	ug/L	1.0	0.19	1		09/28/11 19:03	10061-02-6	
Diisopropyl ether	<0.76	ug/L	1.0	0.76	1		09/28/11 19:03	108-20-3	
Ethylbenzene	<0.54	ug/L	1.0	0.54	1		09/28/11 19:03	100-41-4	
Hexachloro-1,3-butadiene	<0.67	ug/L	5.0	0.67	1		09/28/11 19:03	87-68-3	
Isopropylbenzene (Cumene)	0.69J	ug/L	1.0	0.59	1		09/28/11 19:03	98-82-8	
p-Isopropyltoluene	0.99J	ug/L	1.0	0.67	1		09/28/11 19:03	99-87-6	
Methylene Chloride	<0.43	ug/L	1.0	0.43	1		09/28/11 19:03	75-09-2	
Methyl-tert-butyl ether	<0.61	ug/L	1.0	0.61	1		09/28/11 19:03	1634-04-4	
Naphthalene	<0.89	ug/L	5.0	0.89	1		09/28/11 19:03	91-20-3	
n-Propylbenzene	1.7	ug/L	1.0	0.81	1		09/28/11 19:03	103-65-1	
Styrene	<0.86	ug/L	1.0	0.86	1		09/28/11 19:03	100-42-5	
1,1,1,2-Tetrachloroethane	<0.92	ug/L	1.0	0.92	1		09/28/11 19:03	630-20-6	
1,1,2,2-Tetrachloroethane	<0.20	ug/L	1.0	0.20	1		09/28/11 19:03	79-34-5	
Tetrachloroethene	<0.45	ug/L	1.0	0.45	1		09/28/11 19:03	127-18-4	
Toluene	<0.67	ug/L	1.0	0.67	1		09/28/11 19:03	108-88-3	
1,2,3-Trichlorobenzene	<0.74	ug/L	1.0	0.74	1		09/28/11 19:03	87-61-6	
1,2,4-Trichlorobenzene	<0.97	ug/L	5.0	0.97	1		09/28/11 19:03	120-82-1	
1,1,1-Trichloroethane	<0.90	ug/L	1.0	0.90	1		09/28/11 19:03	71-55-6	
1,1,2-Trichloroethane	<0.42	ug/L	1.0	0.42	1		09/28/11 19:03	79-00-5	
Trichloroethene	<0.48	ug/L	1.0	0.48	1		09/28/11 19:03	79-01-6	
Trichlorofluoromethane	<0.79	ug/L	1.0	0.79	1		09/28/11 19:03	75-69-4	
1,2,3-Trichloropropane	<0.99	ug/L	1.0	0.99	1		09/28/11 19:03	96-18-4	
1,2,4-Trimethylbenzene	1.0	ug/L	1.0	0.97	1		09/28/11 19:03	95-63-6	
1,3,5-Trimethylbenzene	2.4	ug/L	1.0	0.83	1		09/28/11 19:03	108-67-8	
Vinyl chloride	<0.18	ug/L	1.0	0.18	1		09/28/11 19:03	75-01-4	
m&p-Xylene	<1.8	ug/L	2.0	1.8	1		09/28/11 19:03	179601-23-1	
o-Xylene	<0.83	ug/L	1.0	0.83	1		09/28/11 19:03	95-47-6	
4-Bromofluorobenzene (S)	81 %		70-130		1		09/28/11 19:03	460-00-4	
Dibromofluoromethane (S)	94 %		70-130		1		09/28/11 19:03	1868-53-7	
Toluene-d8 (S)	88 %		70-130		1		09/28/11 19:03	2037-26-5	

ANALYTICAL RESULTS

Project: 005133.0000.0000 WISDOT-STH 76

Pace Project No.: 4051370

Sample: MW-2 **Lab ID: 4051370004** Collected: 09/22/11 13:35 Received: 09/27/11 09:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Dissolved									
Analytical Method: EPA 6010									
Arsenic, Dissolved	6.3J	ug/L	20.0	2.0	1		10/01/11 04:04	7440-38-2	
Barium, Dissolved	32.4	ug/L	5.0	0.70	1		10/01/11 04:04	7440-39-3	
Cadmium, Dissolved	<0.13	ug/L	5.0	0.13	1		10/01/11 04:04	7440-43-9	
Chromium, Dissolved	<0.44	ug/L	5.0	0.44	1		10/01/11 04:04	7440-47-3	
Lead, Dissolved	3.5J	ug/L	7.5	1.5	1		10/01/11 04:04	7439-92-1	
Selenium, Dissolved	<1.9	ug/L	20.0	1.9	1		10/01/11 04:04	7782-49-2	
Silver, Dissolved	0.79J	ug/L	10.0	0.46	1		10/01/11 04:04	7440-22-4	B
7470 Mercury, Dissolved									
Analytical Method: EPA 7470 Preparation Method: EPA 7470									
Mercury, Dissolved	<0.10	ug/L	0.20	0.10	1	09/29/11 13:18	09/30/11 14:46	7439-97-6	
8260 MSV									
Analytical Method: EPA 8260									
Benzene	<1.0	ug/L	2.5	1.0	2.5		09/28/11 16:19	71-43-2	
Bromobenzene	<2.0	ug/L	2.5	2.0	2.5		09/28/11 16:19	108-86-1	
Bromochloromethane	<2.4	ug/L	2.5	2.4	2.5		09/28/11 16:19	74-97-5	
Bromodichloromethane	<1.4	ug/L	2.5	1.4	2.5		09/28/11 16:19	75-27-4	
Bromoform	<2.4	ug/L	2.5	2.4	2.5		09/28/11 16:19	75-25-2	
Bromomethane	<2.3	ug/L	2.5	2.3	2.5		09/28/11 16:19	74-83-9	
n-Butylbenzene	14.4	ug/L	2.5	2.3	2.5		09/28/11 16:19	104-51-8	
sec-Butylbenzene	3.0J	ug/L	12.5	2.2	2.5		09/28/11 16:19	135-98-8	
tert-Butylbenzene	<2.4	ug/L	2.5	2.4	2.5		09/28/11 16:19	98-06-6	
Carbon tetrachloride	<1.2	ug/L	2.5	1.2	2.5		09/28/11 16:19	56-23-5	
Chlorobenzene	<1.0	ug/L	2.5	1.0	2.5		09/28/11 16:19	108-90-7	
Chloroethane	<2.4	ug/L	2.5	2.4	2.5		09/28/11 16:19	75-00-3	
Chloroform	<3.2	ug/L	12.5	3.2	2.5		09/28/11 16:19	67-66-3	
Chloromethane	<0.60	ug/L	2.5	0.60	2.5		09/28/11 16:19	74-87-3	
2-Chlorotoluene	<2.1	ug/L	2.5	2.1	2.5		09/28/11 16:19	95-49-8	
4-Chlorotoluene	<1.8	ug/L	2.5	1.8	2.5		09/28/11 16:19	106-43-4	
1,2-Dibromo-3-chloropropane	<4.2	ug/L	12.5	4.2	2.5		09/28/11 16:19	96-12-8	
Dibromochloromethane	<2.0	ug/L	2.5	2.0	2.5		09/28/11 16:19	124-48-1	
1,2-Dibromoethane (EDB)	<1.4	ug/L	2.5	1.4	2.5		09/28/11 16:19	106-93-4	
Dibromomethane	<1.5	ug/L	2.5	1.5	2.5		09/28/11 16:19	74-95-3	
1,2-Dichlorobenzene	<2.1	ug/L	2.5	2.1	2.5		09/28/11 16:19	95-50-1	
1,3-Dichlorobenzene	<2.2	ug/L	2.5	2.2	2.5		09/28/11 16:19	541-73-1	
1,4-Dichlorobenzene	<2.4	ug/L	2.5	2.4	2.5		09/28/11 16:19	106-46-7	
Dichlorodifluoromethane	<2.5	ug/L	2.5	2.5	2.5		09/28/11 16:19	75-71-8	
1,1-Dichloroethane	<1.9	ug/L	2.5	1.9	2.5		09/28/11 16:19	75-34-3	
1,2-Dichloroethane	<0.90	ug/L	2.5	0.90	2.5		09/28/11 16:19	107-06-2	
1,1-Dichloroethene	<1.4	ug/L	2.5	1.4	2.5		09/28/11 16:19	75-35-4	
cis-1,2-Dichloroethene	<2.1	ug/L	2.5	2.1	2.5		09/28/11 16:19	156-59-2	
trans-1,2-Dichloroethene	<2.2	ug/L	2.5	2.2	2.5		09/28/11 16:19	156-60-5	
1,2-Dichloropropane	<1.2	ug/L	2.5	1.2	2.5		09/28/11 16:19	78-87-5	
1,3-Dichloropropane	<1.5	ug/L	2.5	1.5	2.5		09/28/11 16:19	142-28-9	
2,2-Dichloropropane	<1.6	ug/L	2.5	1.6	2.5		09/28/11 16:19	594-20-7	
1,1-Dichloropropene	<1.9	ug/L	2.5	1.9	2.5		09/28/11 16:19	563-58-6	
cis-1,3-Dichloropropene	<0.50	ug/L	2.5	0.50	2.5		09/28/11 16:19	10061-01-5	

ANALYTICAL RESULTS

Project: 005133.0000.0000 WISDOT-STH 76
Pace Project No.: 4051370

Sample: MW-2 **Lab ID: 4051370004** Collected: 09/22/11 13:35 Received: 09/27/11 09:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
trans-1,3-Dichloropropene	<0.48	ug/L	2.5	0.48	2.5		09/28/11 16:19	10061-02-6	
Diisopropyl ether	<1.9	ug/L	2.5	1.9	2.5		09/28/11 16:19	108-20-3	
Ethylbenzene	169	ug/L	2.5	1.4	2.5		09/28/11 16:19	100-41-4	
Hexachloro-1,3-butadiene	<1.7	ug/L	12.5	1.7	2.5		09/28/11 16:19	87-68-3	
Isopropylbenzene (Cumene)	32.2	ug/L	2.5	1.5	2.5		09/28/11 16:19	98-82-8	
p-Isopropyltoluene	6.1	ug/L	2.5	1.7	2.5		09/28/11 16:19	99-87-6	
Methylene Chloride	<1.1	ug/L	2.5	1.1	2.5		09/28/11 16:19	75-09-2	
Methyl-tert-butyl ether	<1.5	ug/L	2.5	1.5	2.5		09/28/11 16:19	1634-04-4	
Naphthalene	113	ug/L	12.5	2.2	2.5		09/28/11 16:19	91-20-3	
n-Propylbenzene	66.3	ug/L	2.5	2.0	2.5		09/28/11 16:19	103-65-1	
Styrene	<2.2	ug/L	2.5	2.2	2.5		09/28/11 16:19	100-42-5	
1,1,1,2-Tetrachloroethane	<2.3	ug/L	2.5	2.3	2.5		09/28/11 16:19	630-20-6	
1,1,2,2-Tetrachloroethane	<0.50	ug/L	2.5	0.50	2.5		09/28/11 16:19	79-34-5	
Tetrachloroethene	<1.1	ug/L	2.5	1.1	2.5		09/28/11 16:19	127-18-4	
Toluene	<1.7	ug/L	2.5	1.7	2.5		09/28/11 16:19	108-88-3	
1,2,3-Trichlorobenzene	<1.8	ug/L	2.5	1.8	2.5		09/28/11 16:19	87-61-6	
1,2,4-Trichlorobenzene	<2.4	ug/L	12.5	2.4	2.5		09/28/11 16:19	120-82-1	
1,1,1-Trichloroethane	<2.2	ug/L	2.5	2.2	2.5		09/28/11 16:19	71-55-6	
1,1,2-Trichloroethane	<1.0	ug/L	2.5	1.0	2.5		09/28/11 16:19	79-00-5	
Trichloroethene	<1.2	ug/L	2.5	1.2	2.5		09/28/11 16:19	79-01-6	
Trichlorofluoromethane	<2.0	ug/L	2.5	2.0	2.5		09/28/11 16:19	75-69-4	
1,2,3-Trichloropropane	<2.5	ug/L	2.5	2.5	2.5		09/28/11 16:19	96-18-4	
1,2,4-Trimethylbenzene	253	ug/L	2.5	2.4	2.5		09/28/11 16:19	95-63-6	
1,3,5-Trimethylbenzene	97.7	ug/L	2.5	2.1	2.5		09/28/11 16:19	108-67-8	
Vinyl chloride	<0.45	ug/L	2.5	0.45	2.5		09/28/11 16:19	75-01-4	
m&p-Xylene	201	ug/L	5.0	4.5	2.5		09/28/11 16:19	179601-23-1	
o-Xylene	3.0	ug/L	2.5	2.1	2.5		09/28/11 16:19	95-47-6	
4-Bromofluorobenzene (S)	86	%	70-130		2.5		09/28/11 16:19	460-00-4	
Dibromofluoromethane (S)	89	%	70-130		2.5		09/28/11 16:19	1868-53-7	
Toluene-d8 (S)	81	%	70-130		2.5		09/28/11 16:19	2037-26-5	

ANALYTICAL RESULTS

Project: 005133.0000.0000 WISDOT-STH 76

Pace Project No.: 4051370

Sample: MW-3 **Lab ID: 4051370005** Collected: 09/22/11 14:30 Received: 09/27/11 09:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Dissolved									
Analytical Method: EPA 6010									
Arsenic, Dissolved	3.1J	ug/L	20.0	2.0	1		10/01/11 04:08	7440-38-2	
Barium, Dissolved	122	ug/L	5.0	0.70	1		10/01/11 04:08	7440-39-3	
Cadmium, Dissolved	<0.13	ug/L	5.0	0.13	1		10/01/11 04:08	7440-43-9	
Chromium, Dissolved	<0.44	ug/L	5.0	0.44	1		10/01/11 04:08	7440-47-3	
Lead, Dissolved	2.7J	ug/L	7.5	1.5	1		10/01/11 04:08	7439-92-1	
Selenium, Dissolved	<1.9	ug/L	20.0	1.9	1		10/01/11 04:08	7782-49-2	
Silver, Dissolved	0.46J	ug/L	10.0	0.46	1		10/01/11 04:08	7440-22-4	B
7470 Mercury, Dissolved									
Analytical Method: EPA 7470 Preparation Method: EPA 7470									
Mercury, Dissolved	<0.10	ug/L	0.20	0.10	1	09/29/11 13:18	09/30/11 14:48	7439-97-6	
8260 MSV									
Analytical Method: EPA 8260									
Benzene	18.1	ug/L	1.0	0.41	1		09/28/11 19:26	71-43-2	
Bromobenzene	<0.82	ug/L	1.0	0.82	1		09/28/11 19:26	108-86-1	
Bromochloromethane	<0.97	ug/L	1.0	0.97	1		09/28/11 19:26	74-97-5	
Bromodichloromethane	<0.56	ug/L	1.0	0.56	1		09/28/11 19:26	75-27-4	
Bromoform	<0.94	ug/L	1.0	0.94	1		09/28/11 19:26	75-25-2	
Bromomethane	<0.91	ug/L	1.0	0.91	1		09/28/11 19:26	74-83-9	
n-Butylbenzene	<0.93	ug/L	1.0	0.93	1		09/28/11 19:26	104-51-8	
sec-Butylbenzene	<0.89	ug/L	5.0	0.89	1		09/28/11 19:26	135-98-8	
tert-Butylbenzene	<0.97	ug/L	1.0	0.97	1		09/28/11 19:26	98-06-6	
Carbon tetrachloride	<0.49	ug/L	1.0	0.49	1		09/28/11 19:26	56-23-5	
Chlorobenzene	<0.41	ug/L	1.0	0.41	1		09/28/11 19:26	108-90-7	
Chloroethane	<0.97	ug/L	1.0	0.97	1		09/28/11 19:26	75-00-3	
Chloroform	<1.3	ug/L	5.0	1.3	1		09/28/11 19:26	67-66-3	
Chloromethane	<0.24	ug/L	1.0	0.24	1		09/28/11 19:26	74-87-3	
2-Chlorotoluene	<0.85	ug/L	1.0	0.85	1		09/28/11 19:26	95-49-8	
4-Chlorotoluene	<0.74	ug/L	1.0	0.74	1		09/28/11 19:26	106-43-4	
1,2-Dibromo-3-chloropropane	<1.7	ug/L	5.0	1.7	1		09/28/11 19:26	96-12-8	
Dibromochloromethane	<0.81	ug/L	1.0	0.81	1		09/28/11 19:26	124-48-1	
1,2-Dibromoethane (EDB)	<0.56	ug/L	1.0	0.56	1		09/28/11 19:26	106-93-4	
Dibromomethane	<0.60	ug/L	1.0	0.60	1		09/28/11 19:26	74-95-3	
1,2-Dichlorobenzene	<0.83	ug/L	1.0	0.83	1		09/28/11 19:26	95-50-1	
1,3-Dichlorobenzene	<0.87	ug/L	1.0	0.87	1		09/28/11 19:26	541-73-1	
1,4-Dichlorobenzene	<0.95	ug/L	1.0	0.95	1		09/28/11 19:26	106-46-7	
Dichlorodifluoromethane	<0.99	ug/L	1.0	0.99	1		09/28/11 19:26	75-71-8	
1,1-Dichloroethane	<0.75	ug/L	1.0	0.75	1		09/28/11 19:26	75-34-3	
1,2-Dichloroethane	<0.36	ug/L	1.0	0.36	1		09/28/11 19:26	107-06-2	
1,1-Dichloroethene	<0.57	ug/L	1.0	0.57	1		09/28/11 19:26	75-35-4	
cis-1,2-Dichloroethene	<0.83	ug/L	1.0	0.83	1		09/28/11 19:26	156-59-2	
trans-1,2-Dichloroethene	<0.89	ug/L	1.0	0.89	1		09/28/11 19:26	156-60-5	
1,2-Dichloropropane	<0.49	ug/L	1.0	0.49	1		09/28/11 19:26	78-87-5	
1,3-Dichloropropane	<0.61	ug/L	1.0	0.61	1		09/28/11 19:26	142-28-9	
2,2-Dichloropropane	<0.62	ug/L	1.0	0.62	1		09/28/11 19:26	594-20-7	
1,1-Dichloropropene	<0.75	ug/L	1.0	0.75	1		09/28/11 19:26	563-58-6	
cis-1,3-Dichloropropene	<0.20	ug/L	1.0	0.20	1		09/28/11 19:26	10061-01-5	

ANALYTICAL RESULTS

Project: 005133.0000.0000 WISDOT-STH 76

Pace Project No.: 4051370

Sample: MW-3 **Lab ID: 4051370005** Collected: 09/22/11 14:30 Received: 09/27/11 09:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Analytical Method: EPA 8260									
trans-1,3-Dichloropropene	<0.19	ug/L	1.0	0.19	1		09/28/11 19:26	10061-02-6	
Diisopropyl ether	<0.76	ug/L	1.0	0.76	1		09/28/11 19:26	108-20-3	
Ethylbenzene	8.5	ug/L	1.0	0.54	1		09/28/11 19:26	100-41-4	
Hexachloro-1,3-butadiene	<0.67	ug/L	5.0	0.67	1		09/28/11 19:26	87-68-3	
Isopropylbenzene (Cumene)	1.5	ug/L	1.0	0.59	1		09/28/11 19:26	98-82-8	
p-Isopropyltoluene	<0.67	ug/L	1.0	0.67	1		09/28/11 19:26	99-87-6	
Methylene Chloride	<0.43	ug/L	1.0	0.43	1		09/28/11 19:26	75-09-2	
Methyl-tert-butyl ether	<0.61	ug/L	1.0	0.61	1		09/28/11 19:26	1634-04-4	
Naphthalene	2.8J	ug/L	5.0	0.89	1		09/28/11 19:26	91-20-3	
n-Propylbenzene	0.97J	ug/L	1.0	0.81	1		09/28/11 19:26	103-65-1	
Styrene	<0.86	ug/L	1.0	0.86	1		09/28/11 19:26	100-42-5	
1,1,1,2-Tetrachloroethane	<0.92	ug/L	1.0	0.92	1		09/28/11 19:26	630-20-6	
1,1,2,2-Tetrachloroethane	<0.20	ug/L	1.0	0.20	1		09/28/11 19:26	79-34-5	
Tetrachloroethene	<0.45	ug/L	1.0	0.45	1		09/28/11 19:26	127-18-4	
Toluene	22.6	ug/L	1.0	0.67	1		09/28/11 19:26	108-88-3	
1,2,3-Trichlorobenzene	<0.74	ug/L	1.0	0.74	1		09/28/11 19:26	87-61-6	
1,2,4-Trichlorobenzene	<0.97	ug/L	5.0	0.97	1		09/28/11 19:26	120-82-1	
1,1,1-Trichloroethane	<0.90	ug/L	1.0	0.90	1		09/28/11 19:26	71-55-6	
1,1,2-Trichloroethane	<0.42	ug/L	1.0	0.42	1		09/28/11 19:26	79-00-5	
Trichloroethene	<0.48	ug/L	1.0	0.48	1		09/28/11 19:26	79-01-6	
Trichlorofluoromethane	<0.79	ug/L	1.0	0.79	1		09/28/11 19:26	75-69-4	
1,2,3-Trichloropropane	<0.99	ug/L	1.0	0.99	1		09/28/11 19:26	96-18-4	
1,2,4-Trimethylbenzene	<0.97	ug/L	1.0	0.97	1		09/28/11 19:26	95-63-6	
1,3,5-Trimethylbenzene	<0.83	ug/L	1.0	0.83	1		09/28/11 19:26	108-67-8	
Vinyl chloride	<0.18	ug/L	1.0	0.18	1		09/28/11 19:26	75-01-4	
m&p-Xylene	6.1	ug/L	2.0	1.8	1		09/28/11 19:26	179601-23-1	
o-Xylene	<0.83	ug/L	1.0	0.83	1		09/28/11 19:26	95-47-6	
4-Bromofluorobenzene (S)	81 %		70-130		1		09/28/11 19:26	460-00-4	
Dibromofluoromethane (S)	95 %		70-130		1		09/28/11 19:26	1868-53-7	
Toluene-d8 (S)	86 %		70-130		1		09/28/11 19:26	2037-26-5	

QUALITY CONTROL DATA

Project: 005133.0000.0000 WISDOT-STH 76
Pace Project No.: 4051370

QC Batch: ICP/5085 Analysis Method: EPA 6010
QC Batch Method: EPA 6010 Analysis Description: ICP Metals, Trace, Dissolved
Associated Lab Samples: 4051370001, 4051370002, 4051370003, 4051370004, 4051370005

METHOD BLANK: 510452 Matrix: Water
Associated Lab Samples: 4051370001, 4051370002, 4051370003, 4051370004, 4051370005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Arsenic, Dissolved	ug/L	<2.0	20.0	10/01/11 02:20	
Barium, Dissolved	ug/L	<0.70	5.0	10/01/11 02:20	
Cadmium, Dissolved	ug/L	<0.13	5.0	10/01/11 02:20	
Chromium, Dissolved	ug/L	<0.44	5.0	10/01/11 02:20	
Lead, Dissolved	ug/L	<1.5	7.5	10/01/11 02:20	
Selenium, Dissolved	ug/L	<1.9	20.0	10/01/11 02:20	
Silver, Dissolved	ug/L	0.60J	10.0	10/01/11 02:20	

LABORATORY CONTROL SAMPLE: 510453

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic, Dissolved	ug/L	500	468	94	80-120	
Barium, Dissolved	ug/L	500	484	97	80-120	
Cadmium, Dissolved	ug/L	500	472	94	80-120	
Chromium, Dissolved	ug/L	500	486	97	80-120	
Lead, Dissolved	ug/L	500	454	91	80-120	
Selenium, Dissolved	ug/L	500	440	88	80-120	
Silver, Dissolved	ug/L	250	221	89	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 510454 510455

Parameter	Units	4051295001		MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		Result	Conc.	Spike Conc.	Spike Conc.	Result	Result						
Arsenic, Dissolved	ug/L	19.1J	500	500	522	513	101	99	75-125	2	20		
Barium, Dissolved	ug/L	726	500	500	1180	1160	91	87	75-125	2	20		
Cadmium, Dissolved	ug/L	<0.13	500	500	514	508	103	102	75-125	1	20		
Chromium, Dissolved	ug/L	<0.44	500	500	491	478	98	96	75-125	3	20		
Lead, Dissolved	ug/L	4.0J	500	500	481	469	95	93	75-125	3	20		
Selenium, Dissolved	ug/L	<1.9	500	500	487	481	97	96	75-125	1	20		
Silver, Dissolved	ug/L	<0.46	250	250	215	218	86	87	75-125	1	20		

QUALITY CONTROL DATA

Project: 005133.0000.0000 WISDOT-STH 76
Pace Project No.: 4051370

QC Batch: MERP/2730 Analysis Method: EPA 7470
QC Batch Method: EPA 7470 Analysis Description: 7470 Mercury Dissolved
Associated Lab Samples: 4051370001, 4051370002, 4051370003, 4051370004, 4051370005

METHOD BLANK: 510388 Matrix: Water
Associated Lab Samples: 4051370001, 4051370002, 4051370003, 4051370004, 4051370005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury, Dissolved	ug/L	<0.10	0.20	09/30/11 13:53	

LABORATORY CONTROL SAMPLE: 510389

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury, Dissolved	ug/L	5	5.0	100	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 510390 510391

Parameter	Units	4051239001		510391		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		Result	MS Spike Conc.	MSD Spike Conc.	MS Result						
Mercury, Dissolved	ug/L	<0.10	5	5	4.0	4.1	79	81	85-115	3	20 M0

QUALITY CONTROL DATA

Project: 005133.0000.0000 WISDOT-STH 76

Pace Project No.: 4051370

QC Batch: MSV/12717 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV
Associated Lab Samples: 4051370001, 4051370002, 4051370003, 4051370004, 4051370005

METHOD BLANK: 509197 Matrix: Water
Associated Lab Samples: 4051370001, 4051370002, 4051370003, 4051370004, 4051370005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	<0.92	1.0	09/28/11 08:15	
1,1,1-Trichloroethane	ug/L	<0.90	1.0	09/28/11 08:15	
1,1,2,2-Tetrachloroethane	ug/L	<0.20	1.0	09/28/11 08:15	
1,1,2-Trichloroethane	ug/L	<0.42	1.0	09/28/11 08:15	
1,1-Dichloroethane	ug/L	<0.75	1.0	09/28/11 08:15	
1,1-Dichloroethene	ug/L	<0.57	1.0	09/28/11 08:15	
1,1-Dichloropropene	ug/L	<0.75	1.0	09/28/11 08:15	
1,2,3-Trichlorobenzene	ug/L	<0.74	1.0	09/28/11 08:15	
1,2,3-Trichloropropane	ug/L	<0.99	1.0	09/28/11 08:15	
1,2,4-Trichlorobenzene	ug/L	<0.97	5.0	09/28/11 08:15	
1,2,4-Trimethylbenzene	ug/L	<0.97	1.0	09/28/11 08:15	
1,2-Dibromo-3-chloropropane	ug/L	<1.7	5.0	09/28/11 08:15	
1,2-Dibromoethane (EDB)	ug/L	<0.56	1.0	09/28/11 08:15	
1,2-Dichlorobenzene	ug/L	<0.83	1.0	09/28/11 08:15	
1,2-Dichloroethane	ug/L	<0.36	1.0	09/28/11 08:15	
1,2-Dichloropropane	ug/L	<0.49	1.0	09/28/11 08:15	
1,3,5-Trimethylbenzene	ug/L	<0.83	1.0	09/28/11 08:15	
1,3-Dichlorobenzene	ug/L	<0.87	1.0	09/28/11 08:15	
1,3-Dichloropropane	ug/L	<0.61	1.0	09/28/11 08:15	
1,4-Dichlorobenzene	ug/L	<0.95	1.0	09/28/11 08:15	
2,2-Dichloropropane	ug/L	<0.62	1.0	09/28/11 08:15	
2-Chlorotoluene	ug/L	<0.85	1.0	09/28/11 08:15	
4-Chlorotoluene	ug/L	<0.74	1.0	09/28/11 08:15	
Benzene	ug/L	<0.41	1.0	09/28/11 08:15	
Bromobenzene	ug/L	<0.82	1.0	09/28/11 08:15	
Bromochloromethane	ug/L	<0.97	1.0	09/28/11 08:15	
Bromodichloromethane	ug/L	<0.56	1.0	09/28/11 08:15	
Bromoform	ug/L	<0.94	1.0	09/28/11 08:15	
Bromomethane	ug/L	<0.91	1.0	09/28/11 08:15	
Carbon tetrachloride	ug/L	<0.49	1.0	09/28/11 08:15	
Chlorobenzene	ug/L	<0.41	1.0	09/28/11 08:15	
Chloroethane	ug/L	<0.97	1.0	09/28/11 08:15	
Chloroform	ug/L	<1.3	5.0	09/28/11 08:15	
Chloromethane	ug/L	<0.24	1.0	09/28/11 08:15	
cis-1,2-Dichloroethene	ug/L	<0.83	1.0	09/28/11 08:15	
cis-1,3-Dichloropropene	ug/L	<0.20	1.0	09/28/11 08:15	
Dibromochloromethane	ug/L	<0.81	1.0	09/28/11 08:15	
Dibromomethane	ug/L	<0.60	1.0	09/28/11 08:15	
Dichlorodifluoromethane	ug/L	<0.99	1.0	09/28/11 08:15	
Diisopropyl ether	ug/L	<0.76	1.0	09/28/11 08:15	
Ethylbenzene	ug/L	<0.54	1.0	09/28/11 08:15	
Hexachloro-1,3-butadiene	ug/L	<0.67	5.0	09/28/11 08:15	
Isopropylbenzene (Cumene)	ug/L	<0.59	1.0	09/28/11 08:15	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 005133.0000.0000 WISDOT-STH 76
Pace Project No.: 4051370

METHOD BLANK: 509197

Matrix: Water

Associated Lab Samples: 4051370001, 4051370002, 4051370003, 4051370004, 4051370005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
m&p-Xylene	ug/L	<1.8	2.0	09/28/11 08:15	
Methyl-tert-butyl ether	ug/L	<0.61	1.0	09/28/11 08:15	
Methylene Chloride	ug/L	<0.43	1.0	09/28/11 08:15	
n-Butylbenzene	ug/L	<0.93	1.0	09/28/11 08:15	
n-Propylbenzene	ug/L	<0.81	1.0	09/28/11 08:15	
Naphthalene	ug/L	<0.89	5.0	09/28/11 08:15	
o-Xylene	ug/L	<0.83	1.0	09/28/11 08:15	
p-Isopropyltoluene	ug/L	<0.67	1.0	09/28/11 08:15	
sec-Butylbenzene	ug/L	<0.89	5.0	09/28/11 08:15	
Styrene	ug/L	<0.86	1.0	09/28/11 08:15	
tert-Butylbenzene	ug/L	<0.97	1.0	09/28/11 08:15	
Tetrachloroethene	ug/L	<0.45	1.0	09/28/11 08:15	
Toluene	ug/L	<0.67	1.0	09/28/11 08:15	
trans-1,2-Dichloroethene	ug/L	<0.89	1.0	09/28/11 08:15	
trans-1,3-Dichloropropene	ug/L	<0.19	1.0	09/28/11 08:15	
Trichloroethene	ug/L	<0.48	1.0	09/28/11 08:15	
Trichlorofluoromethane	ug/L	<0.79	1.0	09/28/11 08:15	
Vinyl chloride	ug/L	<0.18	1.0	09/28/11 08:15	
4-Bromofluorobenzene (S)	%	82	70-130	09/28/11 08:15	
Dibromofluoromethane (S)	%	102	70-130	09/28/11 08:15	
Toluene-d8 (S)	%	83	70-130	09/28/11 08:15	

LABORATORY CONTROL SAMPLE & LCSD: 509198

509199

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	59.1	60.5	118	121	70-133	2	20	
1,1,2,2-Tetrachloroethane	ug/L	50	40.9	42.3	82	85	70-130	3	20	
1,1,2-Trichloroethane	ug/L	50	49.8	49.7	100	99	70-130	.2	20	
1,1-Dichloroethane	ug/L	50	49.7	50.5	99	101	70-130	1	20	
1,1-Dichloroethene	ug/L	50	52.8	51.1	106	102	70-130	3	20	
1,2,4-Trichlorobenzene	ug/L	50	44.8	46.1	90	92	70-130	3	20	
1,2-Dibromo-3-chloropropane	ug/L	50	41.1	42.1	82	84	50-150	2	20	
1,2-Dibromoethane (EDB)	ug/L	50	53.0	52.1	106	104	70-130	2	20	
1,2-Dichlorobenzene	ug/L	50	49.4	50.0	99	100	70-130	1	20	
1,2-Dichloroethane	ug/L	50	58.5	57.8	117	116	70-145	1	20	
1,2-Dichloropropane	ug/L	50	49.3	48.0	99	96	70-130	3	20	
1,3-Dichlorobenzene	ug/L	50	48.1	48.5	96	97	70-130	1	20	
1,4-Dichlorobenzene	ug/L	50	50.8	51.2	102	102	70-130	.6	20	
Benzene	ug/L	50	49.0	49.4	98	99	70-130	.6	20	
Bromodichloromethane	ug/L	50	58.8	58.1	118	116	70-130	1	20	
Bromoform	ug/L	50	53.5	53.0	107	106	70-130	.8	20	
Bromomethane	ug/L	50	44.8	50.2	90	100	52-155	11	20	
Carbon tetrachloride	ug/L	50	64.3	66.1	129	132	70-153	3	20	
Chlorobenzene	ug/L	50	53.8	52.2	108	104	70-130	3	20	
Chloroethane	ug/L	50	45.2	45.4	90	91	70-130	.3	20	

QUALITY CONTROL DATA

Project: 005133.0000.0000 WISDOT-STH 76
Pace Project No.: 4051370

LABORATORY CONTROL SAMPLE & LCSD: 509198		509199								
Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Chloroform	ug/L	50	56.9	57.0	114	114	70-130	.3	20	
Chloromethane	ug/L	50	41.4	39.9	83	80	50-130	4	20	
cis-1,2-Dichloroethene	ug/L	50	49.2	49.9	98	100	70-130	1	20	
cis-1,3-Dichloropropene	ug/L	50	50.9	51.6	102	103	70-130	1	20	
Dibromochloromethane	ug/L	50	55.6	55.4	111	111	70-130	.3	20	
Dichlorodifluoromethane	ug/L	50	47.5	47.5	95	95	50-150	.04	20	
Ethylbenzene	ug/L	50	50.4	50.3	101	101	70-130	.4	20	
Isopropylbenzene (Cumene)	ug/L	50	53.4	53.0	107	106	70-130	.8	20	
m&p-Xylene	ug/L	100	103	102	103	102	70-130	.5	20	
Methyl-tert-butyl ether	ug/L	50	46.5	46.6	93	93	70-130	.3	20	
Methylene Chloride	ug/L	50	50.8	50.8	102	102	70-130	.004	20	
o-Xylene	ug/L	50	50.6	49.9	101	100	70-130	1	20	
Styrene	ug/L	50	51.7	51.1	103	102	70-130	1	20	
Tetrachloroethene	ug/L	50	57.4	56.9	115	114	70-130	.7	20	
Toluene	ug/L	50	49.5	49.1	99	98	70-130	.8	20	
trans-1,2-Dichloroethene	ug/L	50	60.8	60.9	122	122	70-130	.2	20	
trans-1,3-Dichloropropene	ug/L	50	46.1	45.8	92	92	70-130	.6	20	
Trichloroethene	ug/L	50	59.2	58.7	118	117	70-130	.8	20	
Trichlorofluoromethane	ug/L	50	63.9	63.4	128	127	50-150	.8	20	
Vinyl chloride	ug/L	50	45.1	44.7	90	89	66-130	.8	20	
4-Bromofluorobenzene (S)	%				86	88	70-130			
Dibromofluoromethane (S)	%				92	95	70-130			
Toluene-d8 (S)	%				86	86	70-130			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 509313		509314											
Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		4051266002 Result	Spike Conc.	Spike Conc.	Result								
1,1,1-Trichloroethane	ug/L	7.8	50	50	68.7	67.3	122	119	70-133	2	20		
1,1,2,2-Tetrachloroethane	ug/L	<0.20	50	50	42.7	42.9	85	86	70-130	.4	20		
1,1,2-Trichloroethane	ug/L	<0.42	50	50	50.2	50.8	100	102	70-130	1	20		
1,1-Dichloroethane	ug/L	1.1	50	50	51.8	51.8	101	101	70-133	.09	20		
1,1-Dichloroethene	ug/L	<0.57	50	50	53.3	53.7	107	107	70-130	.8	20		
1,2,4-Trichlorobenzene	ug/L	1.1J	50	50	47.0	47.4	92	93	70-130	.7	20		
1,2-Dibromo-3-chloropropane	ug/L	<1.7	50	50	43.6	45.1	87	90	50-150	3	20		
1,2-Dibromoethane (EDB)	ug/L	<0.56	50	50	53.1	52.6	106	105	70-130	.9	20		
1,2-Dichlorobenzene	ug/L	<0.83	50	50	51.2	50.5	102	101	70-130	2	20		
1,2-Dichloroethane	ug/L	<0.36	50	50	58.1	57.9	116	116	70-145	.3	20		
1,2-Dichloropropane	ug/L	<0.49	50	50	48.7	49.0	97	98	70-130	.6	20		
1,3-Dichlorobenzene	ug/L	<0.87	50	50	49.6	49.3	99	99	70-130	.6	20		
1,4-Dichlorobenzene	ug/L	<0.95	50	50	51.9	51.2	104	102	70-130	1	20		
Benzene	ug/L	<0.41	50	50	49.7	49.3	99	99	70-130	.7	20		
Bromodichloromethane	ug/L	<0.56	50	50	58.5	58.1	117	116	70-130	.7	20		
Bromoform	ug/L	<0.94	50	50	53.2	51.6	106	103	70-130	3	20		
Bromomethane	ug/L	<0.91	50	50	50.0	52.3	100	105	52-155	4	20		
Carbon tetrachloride	ug/L	<0.49	50	50	67.1	64.1	134	128	70-158	5	20		
Chlorobenzene	ug/L	<0.41	50	50	54.3	53.5	109	107	70-130	2	20		

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QUALITY CONTROL DATA

Project: 005133.0000.0000 WISDOT-STH 76

Pace Project No.: 4051370

Parameter	Units	4051266002		MS		MSD		MS		MSD		% Rec	Limits	RPD	Max RPD	Qual
		Result	Conc.	Spike Conc.	Conc.	Result	Result	% Rec	% Rec							
Chloroethane	ug/L	<0.97	50	50	44.9	44.5	90	89	70-130	1	20					
Chloroform	ug/L	<1.3	50	50	57.2	56.2	114	112	70-130	2	20					
Chloromethane	ug/L	<0.24	50	50	37.0	39.9	74	80	46-130	7	20					
cis-1,2-Dichloroethene	ug/L	1.7	50	50	52.6	52.3	102	101	70-130	.6	20					
cis-1,3-Dichloropropene	ug/L	<0.20	50	50	51.9	45.7	104	91	70-130	13	20					
Dibromochloromethane	ug/L	<0.81	50	50	56.1	54.3	112	109	70-130	3	20					
Dichlorodifluoromethane	ug/L	<0.99	50	50	43.5	43.8	87	88	50-150	.7	20					
Ethylbenzene	ug/L	<0.54	50	50	49.8	50.2	100	100	70-130	.7	20					
Isopropylbenzene (Cumene)	ug/L	<0.59	50	50	53.6	53.5	107	107	70-130	.2	20					
m&p-Xylene	ug/L		100	100	103	102	103	102	70-130	1	20					
Methyl-tert-butyl ether	ug/L	<0.61	50	50	47.2	47.2	94	94	70-130	.1	20					
Methylene Chloride	ug/L	<0.43	50	50	51.2	50.4	102	101	70-130	1	20					
o-Xylene	ug/L		50	50	50.3	50.1	101	100	70-130	.5	20					
Styrene	ug/L	<0.86	50	50	51.0	48.5	102	97	19-157	5	20					
Tetrachloroethene	ug/L	<0.45	50	50	59.1	58.3	118	117	70-130	1	20					
Toluene	ug/L	<0.67	50	50	50.2	49.5	100	99	70-130	1	20					
trans-1,2-Dichloroethene	ug/L	<0.89	50	50	62.5	60.5	125	121	70-130	3	20					
trans-1,3-Dichloropropene	ug/L	<0.19	50	50	46.8	42.8	94	86	70-130	9	20					
Trichloroethene	ug/L	1.1	50	50	59.6	61.0	117	120	70-130	2	20					
Trichlorofluoromethane	ug/L	<0.79	50	50	62.6	62.4	125	125	50-150	.2	20					
Vinyl chloride	ug/L	<0.18	50	50	43.1	43.7	86	87	62-130	1	20					
4-Bromofluorobenzene (S)	%						86	87	70-130							
Dibromofluoromethane (S)	%						97	95	70-130							
Toluene-d8 (S)	%						85	86	70-130							

QUALIFIERS

Project: 005133.0000.0000 WISDOT-STH 76

Pace Project No.: 4051370

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.

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.

LABORATORIES

PASI-G Pace Analytical Services - Green Bay

ANALYTE QUALIFIERS

B Analyte was detected in the associated method blank.

M0 Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.

(Please Print Clearly)

Company Name: TRC
 Branch/Location: N/A 180 N
 Project Contact: T. O'Connell / D. Hawk
 Phone: 608.630.6710
 Project Number: 005133.0000.0000
 Project Name: WISDOT-STRT 76
 Project State: WI
 Sampled By (Print): Ted O'Connell
 Sampled By (Sign): *Ted O'Connell*
 PO #: 37237
 Regulatory Program:
 Data Package Options:
 EPA Level III On your sample (billable)
 EPA Level IV NOT needed on your sample
 Matrix Codes:
 A = Air B = Biota W = Water
 C = Charcoal D = Drinking Water
 O = Oil E = Ground Water
 SI = Sludge F = Surface Water
 WP = Waste Water
 G = Sludge
 Matrix:
 W = Water
 DW = Drinking Water
 GW = Ground Water
 SW = Surface Water
 WW = Waste Water
 WP = Wipe



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

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

4051370

PAGE LAB #	CLIENT FIELD ID	DATE	TIME	MATRIX	Analysis Requested		V/A	Pick Letter	FILTERED? (YES/NO)	PRESERVATION (CODE)
					VOCS	DIS. METALS				
001	MW-4	9/22/11	935	GW	X	X				
002	MW-5		1040							
003	MW-1		1155							
004	MW-2		1335							
005	MW-3		1440							

Relinquished By: *[Signature]* Date/Time: 9/22/11 0940
 Relinquished By: *[Signature]* Date/Time: 9/22/11 1200
 Relinquished By: *[Signature]* Date/Time: 9/22/11 0950
 Relinquished By: *[Signature]* Date/Time: 9/22/11 1200
 Received By: *[Signature]* Date/Time: 9/22/11 1200
 Received By: *[Signature]* Date/Time: 9/22/11 1200
 Received By: *[Signature]* Date/Time: 9/22/11 0900
 Received By: *[Signature]* Date/Time: 9/22/11 0900

Invoice To Contact: Dan Hawk
 Invoice To Company: TRC
 Invoice To Address: 708 Heartland Trail, Suite 3000, Madison WI 53717
 Invoice To Phone:
 CLIENT COMMENTS: 3-40ml B-1-3500 D
 LAB COMMENTS: (Lab Use Only) Profile #
 @ KRA & per T.O. mail

PACE Project No. 4051370
 Receipt Temp = 80.0°C
 Sample Receipt pH (Or) Adjusted
 Cooler Custody Seal Present / Not Present Intact / Not Intact



Sample Condition Upon Receipt

Client Name: ARC Project # 4051370

Courier: Fed Ex UPS USPS Client Commercial 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 ROI Biological Tissue is Frozen: yes no

Temp Blank Present: yes no

Optional:
 Pre-Blue Date:
 Pre-Name:

Person examining contents:
 Date: 9/27/11
 Initials: KM

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

Comments:

Chain of Custody Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.
Chain of Custody Filled Out:	<input 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.
Short Hold Time Analysis (<72hr):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	6.
Rush Turn Around Time Requested:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	7.
Sufficient Volume:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	8.
Correct Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.
-Pace Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Containers Intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	10.
Filtered volume received for Dissolved tests	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	11.
Sample Labels match COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	12.
-Includes date/time/ID/Analysis Matrix: <u>W</u>		
All containers needing preservation have been checked.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	13.
All containers needing preservation are found to be in compliance with EPA recommendation.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
exceptions: VOA, coliform, TOC, O&G, WI-DRO (water)	<input type="checkbox"/> Yes <input type="checkbox"/> No	Initial when completed <u>KM</u> Lot # of added preservative
Samples checked for dechlorination:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	14.
Headspace in VOA Vials (>6mm):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	15.
Trip Blank Present:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	16.
Trip Blank Custody Seals Present	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Pace Trip Blank Lot # (if purchased):		

Client Notification/ Resolution: _____ Field Data Required? **Y / N**
 Person Contacted: _____ Date/Time: _____
 Comments/ Resolution: _____

Project Manager Review: _____ **Date:** 9-27-11

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

March 12, 2012

TED O'CONNELL
TRC - MADISON
744 HEARTLAND TRAIL
Madison, WI 53717

RE: Project: WISDOT STH 76 005134.0000.0000
Pace Project No.: 4057080

Dear TED O'CONNELL:

Enclosed are the analytical results for sample(s) received by the laboratory on February 23, 2012. 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

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

CERTIFICATIONS

Project: WISDOT STH 76 005134.0000.0000

Pace Project No.: 4057080

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 Carolina Certification #: 503

North Dakota Certification #: R-150

South Carolina Certification #: 83006001

US Dept of Agriculture #: S-76505

Wisconsin Certification #: 405132750

Wisconsin DATCP Certification #: 105-444

SAMPLE SUMMARY

Project: WISDOT STH 76 005134.0000.0000

Pace Project No.: 4057080

Lab ID	Sample ID	Matrix	Date Collected	Date Received
4057080001	MW-4	Water	02/21/12 11:15	02/23/12 08:45
4057080002	MW-5	Water	02/21/12 12:10	02/23/12 08:45
4057080003	MW-1	Water	02/21/12 13:50	02/23/12 08:45
4057080004	MW-2	Water	02/21/12 14:35	02/23/12 08:45
4057080005	MW-3	Water	02/21/12 15:30	02/23/12 08:45
4057080006	TRIP BLANK	Water	02/21/12 00:00	02/23/12 08:45

REPORT OF LABORATORY ANALYSIS

SAMPLE ANALYTE COUNT

Project: WISDOT STH 76 005134.0000.0000

Pace Project No.: 4057080

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
4057080001	MW-4	WI MOD GRO	PMS	10	PASI-G
		EPA 6010	DLB	1	PASI-G
4057080002	MW-5	WI MOD GRO	PMS	10	PASI-G
		EPA 6010	DLB	1	PASI-G
4057080003	MW-1	WI MOD GRO	PMS	10	PASI-G
		EPA 6010	DLB	1	PASI-G
4057080004	MW-2	WI MOD GRO	PMS	10	PASI-G
		EPA 6010	DLB	1	PASI-G
4057080005	MW-3	WI MOD GRO	PMS	10	PASI-G
		EPA 6010	DLB	1	PASI-G
4057080006	TRIP BLANK	WI MOD GRO	PMS	10	PASI-G

REPORT OF LABORATORY ANALYSIS

PROJECT NARRATIVE

Project: WISDOT STH 76 005134.0000.0000

Pace Project No.: 4057080

Method: WI MOD GRO

Description: WIGRO GCV

Client: TRC - MADISON

Date: March 12, 2012

General Information:

6 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.

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 with any exceptions noted below.

Laboratory Control Spike:

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

Matrix Spikes:

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

Duplicate Sample:

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

Additional Comments:

REPORT OF LABORATORY ANALYSIS

PROJECT NARRATIVE

Project: WISDOT STH 76 005134.0000.0000
Pace Project No.: 4057080

Method: EPA 6010
Description: 6010 MET ICP, Dissolved
Client: TRC - MADISON
Date: March 12, 2012

General Information:

5 samples were analyzed for EPA 6010. 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 EPA 3010 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.

Method Blank:

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

Laboratory Control Spike:

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

Matrix Spikes:

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

Duplicate Sample:

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

Additional Comments:

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

ANALYTICAL RESULTS

Project: WISDOT STH 76 005134.0000.0000

Pace Project No.: 4057080

Sample: MW-4 **Lab ID: 4057080001** Collected: 02/21/12 11:15 Received: 02/23/12 08:45 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV		Analytical Method: WI MOD GRO							
Benzene	19.9	ug/L	1.0	0.39	1		02/28/12 20:46	71-43-2	
Ethylbenzene	1.4	ug/L	1.0	0.41	1		02/28/12 20:46	100-41-4	
Methyl-tert-butyl ether	<0.38	ug/L	1.0	0.38	1		02/28/12 20:46	1634-04-4	
Naphthalene	<0.40	ug/L	1.0	0.40	1		02/28/12 20:46	91-20-3	
Toluene	2.2	ug/L	1.0	0.42	1		02/28/12 20:46	108-88-3	
1,2,4-Trimethylbenzene	<0.43	ug/L	1.0	0.43	1		02/28/12 20:46	95-63-6	
1,3,5-Trimethylbenzene	<0.40	ug/L	1.0	0.40	1		02/28/12 20:46	108-67-8	
m&p-Xylene	<0.87	ug/L	2.0	0.87	1		02/28/12 20:46	179601-23-1	
o-Xylene	<0.38	ug/L	1.0	0.38	1		02/28/12 20:46	95-47-6	
Surrogates									
a,a,a-Trifluorotoluene (S)	106	%	80-120		1		02/28/12 20:46	98-08-8	
6010 MET ICP, Dissolved		Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Lead, Dissolved	<1.4	ug/L	7.5	1.4	1	03/06/12 16:00	03/07/12 12:34	7439-92-1	

ANALYTICAL RESULTS

Project: WISDOT STH 76 005134.0000.0000
Pace Project No.: 4057080

Sample: MW-5 **Lab ID: 4057080002** Collected: 02/21/12 12:10 Received: 02/23/12 08:45 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV		Analytical Method: WI MOD GRO							
Benzene	<0.39	ug/L	1.0	0.39	1		02/28/12 18:37	71-43-2	
Ethylbenzene	<0.41	ug/L	1.0	0.41	1		02/28/12 18:37	100-41-4	
Methyl-tert-butyl ether	0.41J	ug/L	1.0	0.38	1		02/28/12 18:37	1634-04-4	
Naphthalene	<0.40	ug/L	1.0	0.40	1		02/28/12 18:37	91-20-3	
Toluene	<0.42	ug/L	1.0	0.42	1		02/28/12 18:37	108-88-3	
1,2,4-Trimethylbenzene	<0.43	ug/L	1.0	0.43	1		02/28/12 18:37	95-63-6	
1,3,5-Trimethylbenzene	<0.40	ug/L	1.0	0.40	1		02/28/12 18:37	108-67-8	
m&p-Xylene	<0.87	ug/L	2.0	0.87	1		02/28/12 18:37	179601-23-1	
o-Xylene	<0.38	ug/L	1.0	0.38	1		02/28/12 18:37	95-47-6	
Surrogates									
a,a,a-Trifluorotoluene (S)	109 %		80-120		1		02/28/12 18:37	98-08-8	
6010 MET ICP, Dissolved		Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Lead, Dissolved	<1.4	ug/L	7.5	1.4	1	03/06/12 16:00	03/07/12 12:36	7439-92-1	

ANALYTICAL RESULTS

Project: WISDOT STH 76 005134.0000.0000
Pace Project No.: 4057080

Sample: MW-1 **Lab ID: 4057080003** Collected: 02/21/12 13:50 Received: 02/23/12 08:45 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV		Analytical Method: WI MOD GRO							
Benzene	<0.39	ug/L	1.0	0.39	1		02/28/12 19:02	71-43-2	
Ethylbenzene	0.58J	ug/L	1.0	0.41	1		02/28/12 19:02	100-41-4	
Methyl-tert-butyl ether	1.9	ug/L	1.0	0.38	1		02/28/12 19:02	1634-04-4	
Naphthalene	1.5	ug/L	1.0	0.40	1		02/28/12 19:02	91-20-3	
Toluene	<0.42	ug/L	1.0	0.42	1		02/28/12 19:02	108-88-3	
1,2,4-Trimethylbenzene	5.2	ug/L	1.0	0.43	1		02/28/12 19:02	95-63-6	
1,3,5-Trimethylbenzene	9.9	ug/L	1.0	0.40	1		02/28/12 19:02	108-67-8	
m&p-Xylene	<0.87	ug/L	2.0	0.87	1		02/28/12 19:02	179601-23-1	
o-Xylene	<0.38	ug/L	1.0	0.38	1		02/28/12 19:02	95-47-6	
Surrogates									
a,a,a-Trifluorotoluene (S)	105 %		80-120		1		02/28/12 19:02	98-08-8	
6010 MET ICP, Dissolved		Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Lead, Dissolved	<1.4	ug/L	7.5	1.4	1	03/06/12 16:00	03/07/12 12:38	7439-92-1	

ANALYTICAL RESULTS

Project: WISDOT STH 76 005134.0000.0000
Pace Project No.: 4057080

Sample: MW-2 **Lab ID: 4057080004** Collected: 02/21/12 14:35 Received: 02/23/12 08:45 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV		Analytical Method: WI MOD GRO							
Benzene	<0.39	ug/L	1.0	0.39	1		02/28/12 19:28	71-43-2	
Ethylbenzene	174	ug/L	1.0	0.41	1		02/28/12 19:28	100-41-4	
Methyl-tert-butyl ether	5.5	ug/L	1.0	0.38	1		02/28/12 19:28	1634-04-4	
Naphthalene	107	ug/L	1.0	0.40	1		02/28/12 19:28	91-20-3	
Toluene	4.0	ug/L	1.0	0.42	1		02/28/12 19:28	108-88-3	
1,2,4-Trimethylbenzene	243	ug/L	1.0	0.43	1		02/28/12 19:28	95-63-6	
1,3,5-Trimethylbenzene	120	ug/L	1.0	0.40	1		02/28/12 19:28	108-67-8	
m&p-Xylene	174	ug/L	2.0	0.87	1		02/28/12 19:28	179601-23-1	
o-Xylene	5.0	ug/L	1.0	0.38	1		02/28/12 19:28	95-47-6	
Surrogates									
a,a,a-Trifluorotoluene (S)	100 %		80-120		1		02/28/12 19:28	98-08-8	
6010 MET ICP, Dissolved		Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Lead, Dissolved	2.3J	ug/L	7.5	1.4	1	03/06/12 16:00	03/07/12 12:44	7439-92-1	

ANALYTICAL RESULTS

Project: WISDOT STH 76 005134.0000.0000
Pace Project No.: 4057080

Sample: MW-3 **Lab ID: 4057080005** Collected: 02/21/12 15:30 Received: 02/23/12 08:45 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV		Analytical Method: WI MOD GRO							
Benzene	27.4	ug/L	1.0	0.39	1		02/28/12 16:53	71-43-2	
Ethylbenzene	<0.41	ug/L	1.0	0.41	1		02/28/12 16:53	100-41-4	
Methyl-tert-butyl ether	<0.38	ug/L	1.0	0.38	1		02/28/12 16:53	1634-04-4	
Naphthalene	2.3	ug/L	1.0	0.40	1		02/28/12 16:53	91-20-3	
Toluene	2.1	ug/L	1.0	0.42	1		02/28/12 16:53	108-88-3	
1,2,4-Trimethylbenzene	<0.43	ug/L	1.0	0.43	1		02/28/12 16:53	95-63-6	
1,3,5-Trimethylbenzene	<0.40	ug/L	1.0	0.40	1		02/28/12 16:53	108-67-8	
m&p-Xylene	1.1J	ug/L	2.0	0.87	1		02/28/12 16:53	179601-23-1	
o-Xylene	0.59J	ug/L	1.0	0.38	1		02/28/12 16:53	95-47-6	
Surrogates									
a,a,a-Trifluorotoluene (S)	104	%	80-120		1		02/28/12 16:53	98-08-8	
6010 MET ICP, Dissolved		Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Lead, Dissolved	<1.4	ug/L	7.5	1.4	1	03/06/12 16:00	03/07/12 12:28	7439-92-1	

ANALYTICAL RESULTS

Project: WISDOT STH 76 005134.0000.0000

Pace Project No.: 4057080

Sample: TRIP BLANK **Lab ID: 4057080006** Collected: 02/21/12 00:00 Received: 02/23/12 08:45 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV		Analytical Method: WI MOD GRO							
Benzene	<0.39	ug/L	1.0	0.39	1		02/28/12 15:36	71-43-2	
Ethylbenzene	<0.41	ug/L	1.0	0.41	1		02/28/12 15:36	100-41-4	
Methyl-tert-butyl ether	<0.38	ug/L	1.0	0.38	1		02/28/12 15:36	1634-04-4	
Naphthalene	<0.40	ug/L	1.0	0.40	1		02/28/12 15:36	91-20-3	
Toluene	<0.42	ug/L	1.0	0.42	1		02/28/12 15:36	108-88-3	
1,2,4-Trimethylbenzene	<0.43	ug/L	1.0	0.43	1		02/28/12 15:36	95-63-6	
1,3,5-Trimethylbenzene	<0.40	ug/L	1.0	0.40	1		02/28/12 15:36	108-67-8	
m&p-Xylene	<0.87	ug/L	2.0	0.87	1		02/28/12 15:36	179601-23-1	
o-Xylene	<0.38	ug/L	1.0	0.38	1		02/28/12 15:36	95-47-6	
Surrogates									
a,a,a-Trifluorotoluene (S)	101	%	80-120		1		02/28/12 15:36	98-08-8	

QUALITY CONTROL DATA

Project: WISDOT STH 76 005134.0000.0000
Pace Project No.: 4057080

QC Batch: GCV/8039 Analysis Method: WI MOD GRO
QC Batch Method: WI MOD GRO Analysis Description: WIGRO GCV Water
Associated Lab Samples: 4057080001, 4057080002, 4057080003, 4057080004, 4057080005, 4057080006

METHOD BLANK: 572940 Matrix: Water
Associated Lab Samples: 4057080001, 4057080002, 4057080003, 4057080004, 4057080005, 4057080006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2,4-Trimethylbenzene	ug/L	<0.43	1.0	02/28/12 10:26	
1,3,5-Trimethylbenzene	ug/L	<0.40	1.0	02/28/12 10:26	
Benzene	ug/L	<0.39	1.0	02/28/12 10:26	
Ethylbenzene	ug/L	<0.41	1.0	02/28/12 10:26	
m&p-Xylene	ug/L	<0.87	2.0	02/28/12 10:26	
Methyl-tert-butyl ether	ug/L	<0.38	1.0	02/28/12 10:26	
Naphthalene	ug/L	<0.40	1.0	02/28/12 10:26	
o-Xylene	ug/L	<0.38	1.0	02/28/12 10:26	
Toluene	ug/L	<0.42	1.0	02/28/12 10:26	
a,a,a-Trifluorotoluene (S)	%	101	80-120	02/28/12 10:26	

LABORATORY CONTROL SAMPLE & LCSD: 572941 572942

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
1,2,4-Trimethylbenzene	ug/L	20	19.0	20.0	95	100	80-120	5	20	
1,3,5-Trimethylbenzene	ug/L	20	19.8	21.0	99	105	80-120	6	20	
Benzene	ug/L	20	21.0	21.8	105	109	80-120	4	20	
Ethylbenzene	ug/L	20	20.2	21.2	101	106	80-120	5	20	
m&p-Xylene	ug/L	40	39.1	41.3	98	103	80-120	5	20	
Methyl-tert-butyl ether	ug/L	20	21.2	20.9	106	105	80-120	1	20	
Naphthalene	ug/L	20	20.0	20.2	100	101	80-120	.9	20	
o-Xylene	ug/L	20	20.1	21.1	100	105	80-120	5	20	
Toluene	ug/L	20	20.3	21.1	101	105	80-120	4	20	
a,a,a-Trifluorotoluene (S)	%				102	102	80-120			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 572943 572944

Parameter	Units	4057080005		MSD		MS		MSD		% Rec Limits	RPD	Max RPD	Qual
		Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec					
1,2,4-Trimethylbenzene	ug/L	<0.43	20	20	19.0	18.7	95	93	10-200	2	20		
1,3,5-Trimethylbenzene	ug/L	<0.40	20	20	20.6	20.3	103	102	56-169	2	20		
Benzene	ug/L	27.4	20	20	48.2	50.1	104	114	33-173	4	20		
Ethylbenzene	ug/L	<0.41	20	20	23.2	23.0	116	115	49-158	.9	20		
m&p-Xylene	ug/L	1.1J	40	40	43.9	43.6	107	106	44-163	.8	20		
Methyl-tert-butyl ether	ug/L	<0.38	20	20	21.9	21.0	110	105	80-130	5	20		
Naphthalene	ug/L	2.3	20	20	23.0	22.6	103	101	67-141	2	20		
o-Xylene	ug/L	0.59J	20	20	21.9	21.7	107	106	64-140	1	20		
Toluene	ug/L	2.1	20	20	25.1	24.7	115	113	79-132	1	20		
a,a,a-Trifluorotoluene (S)	%						104	104	80-120				

QUALITY CONTROL DATA

Project: WISDOT STH 76 005134.0000.0000
Pace Project No.: 4057080

QC Batch: MPRP/6653 Analysis Method: EPA 6010
QC Batch Method: EPA 3010 Analysis Description: 6010 MET Dissolved
Associated Lab Samples: 4057080001, 4057080002, 4057080003, 4057080004, 4057080005

METHOD BLANK: 575574 Matrix: Water
Associated Lab Samples: 4057080001, 4057080002, 4057080003, 4057080004, 4057080005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Lead, Dissolved	ug/L	<1.4	7.5	03/07/12 12:23	

LABORATORY CONTROL SAMPLE: 575575

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lead, Dissolved	ug/L	500	489	98	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 575576 575577

Parameter	Units	4057080005		575576		575577		% Rec Limits	Max RPD	Qual	
		MS Result	MSD Spike Conc.	MS Result	MSD Spike Conc.	MS Result	MSD Spike Conc.				
Lead, Dissolved	ug/L	<1.4	500	500	492	491	98	98	75-125	.3	20

QUALIFIERS

Project: WISDOT STH 76 005134.0000.0000

Pace Project No.: 4057080

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.

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.

LABORATORIES

PASI-G Pace Analytical Services - Green Bay

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: WISDOT STH 76 005134.0000.0000

Pace Project No.: 4057080

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
4057080001	MW-4	WI MOD GRO	GCV/8039		
4057080002	MW-5	WI MOD GRO	GCV/8039		
4057080003	MW-1	WI MOD GRO	GCV/8039		
4057080004	MW-2	WI MOD GRO	GCV/8039		
4057080005	MW-3	WI MOD GRO	GCV/8039		
4057080006	TRIP BLANK	WI MOD GRO	GCV/8039		
4057080001	MW-4	EPA 3010	MPRP/6653	EPA 6010	ICP/5661
4057080002	MW-5	EPA 3010	MPRP/6653	EPA 6010	ICP/5661
4057080003	MW-1	EPA 3010	MPRP/6653	EPA 6010	ICP/5661
4057080004	MW-2	EPA 3010	MPRP/6653	EPA 6010	ICP/5661
4057080005	MW-3	EPA 3010	MPRP/6653	EPA 6010	ICP/5661

(Please Print Clearly)

Company Name: **TRC**
 Branch/Location: **WADSWORTH**
 Project Contact: **T. O'Donnell / D. Hack**
 Phone: **608-630-6710**
 Project Number: **005124.0000.0000**
 Project Name: **NISDOT STH 7b**
 Project State: **WI**
 Sampled By (Print): **T. O'Donnell**
 Sampled By (Sign): *[Signature]*
 PO #: **30983**
 Regulatory Program: **MS/MSD**

Data Package Options
 EPA Level III
 EPA Level IV
 On Your Sample (billable)
 NOT needed on your sample

Matrix Codes
 A = Air, B = Biot, C = Charcoal, O = Oil, S = Soil, SI = Sludge
 W = Water, DW = Drinking Water, GW = Ground Water, SW = Surface Water, WW = Waste Water, WP = Wipe



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)*

PAGE LAB #	CLIENT FIELD ID	COLLECTION		MATRIX	Analyses Requested
		DATE	TIME		
001	MW-4	2/21/12	11:15	GW	X DVOC/NAPHTH X DIS. LEAD
002	MW-5		12:16		
003	MW-1		13:50		
004	MW-2		14:35		
005	MW-3	2/21/12	15:30	GW	
006	Trip blank				

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

Transmit Prelim Rush Results By (complete what you want):
 Relinquished By: **T. O'Donnell** Date/Time: **2/21/12 8:00**
 Relinquished By: **Feder** Date/Time: **2/23/12**
 Relinquished By: **Feder** Date/Time: **2/23/12**
 Relinquished By: **Feder** Date/Time: **2/23/12**

Quote #: **4D57D8D**
 Mail To Contact:
 Mail To Company:
 Mail To Address:
 Invoice To Contact: **O. Hack**
 Invoice To Company: **TRC**
 Invoice To Address: **708 Hartland Trail
 Madison WI 53717**

CLIENT COMMENTS: **LAB COMMENTS (Lab Use Only)**
3-40m JB
1-250m JB
EXTRA VOLUME FOR MS/USDP 40m JB
2-40m JB

Received By: **TRC Cooker** Date/Time: **2/22/12 8:00**
 Received By: **Feder** Date/Time: **2/23/12 8:45**
 Received By: **Feder** Date/Time: **2/23/12**
 Received By: **Feder** Date/Time: **2/23/12**

PAGE Project No. **4D57D8D**
 Receipt Temp = **ROI** °C
 Sample Receipt pH **(OK) Adjusted**
 Cooler Custody Seal **Present / Not Present**
 Intact / Not Intact

* add to COCBY Lab EAMH 2/23/12

Sample Condition Upon Receipt



Client Name: TRC Project # 4057080

Courier: Fed Ex UPS USPS Client Commercial Pace Other _____

Tracking #: _____

Custody Seal on Cooler/Box Present: yes no
 Custody Seal on Samples Present: yes no
 Packing Material: Bubble Wrap Bubble Bags None Other _____
 Thermometer Used N/A
 Cooler Temperature ROI
 Temp Blank Present: yes no

Seals intact: yes no
 Seals intact: yes no
 Type of Ice: Wet Blue Dry None
 Biological Tissue is Frozen: yes no

Optional
 Proj. Due Date
 Proj. Name

Samples on ice, cooling process has begun.

Person examining contents:
 Date: 2/23/12
 Initials: EMH

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

Comments:

Chain of Custody Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.
Chain of Custody Filled Out:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.
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.
Short Hold Time Analysis (<72hr):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	6.
Rush Turn Around Time Requested:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	7.
Sufficient Volume:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	8.
Correct Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.
-Pace Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Containers Intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	10.
Filtered volume received for Dissolved tests	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	11.
Sample Labels match COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	12. Extra unlabeled volume for 005 per client + PM EMH 2/23/12
-Includes date/time/ID/Analysis Matrix: <u>W</u>		
All containers needing preservation have been checked.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	13.
All containers needing preservation are found to be in compliance with EPA recommendation.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
exceptions: VOA, coliform, TOC, O&G, WI-DRO (water)	<input type="checkbox"/> Yes <input type="checkbox"/> No	initial when completed <u>EMH</u> Lot # of added preservative
Samples checked for dechlorination:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	14.
Headspace in VOA Vials (>6mm):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input checked="" type="checkbox"/> N/A	15. <u>EMH 2/23/12</u>
Trip Blank Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	16. Added to COC by lab
Trip Blank Custody Seals Present	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	<u>EMH 2/23/12</u>
Pace Trip Blank Lot # (if purchased):		

Client Notification/ Resolution: _____ Field Data Required? Y / N
 Person Contacted: _____ Date/Time: _____
 Comments/ Resolution: _____

Project Manager Review: _____ Date: 2-23-12

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

November 09, 2012

TED O'CONNELL
TRC - MADISON
744 HEARTLAND TRAIL
Madison, WI 53717

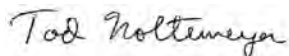
RE: Project: 005134.0000.0000 WISDOT-STH 76
Pace Project No.: 4069839

Dear TED O'CONNELL:

Enclosed are the analytical results for sample(s) received by the laboratory on November 01, 2012. 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,



Tod Noltemeyer

tod.noltemeyer@pacelabs.com
Project Manager

Enclosures



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: 005134.0000.0000 WISDOT-STH 76

Pace Project No.: 4069839

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 Carolina Certification #: 503

North Dakota Certification #: R-150

South Carolina Certification #: 83006001

US Dept of Agriculture #: S-76505

Wisconsin Certification #: 405132750

SAMPLE SUMMARY

Project: 005134.0000.0000 WISDOT-STH 76

Pace Project No.: 4069839

Lab ID	Sample ID	Matrix	Date Collected	Date Received
4069839001	MW-1	Water	10/30/12 10:45	11/01/12 08:45
4069839002	MW-2	Water	10/30/12 11:25	11/01/12 08:45
4069839003	MW-3	Water	10/30/12 09:55	11/01/12 08:45
4069839004	MW-4	Water	10/29/12 15:55	11/01/12 08:45
4069839005	MW-5	Water	10/29/12 16:55	11/01/12 08:45
4069839006	PW-WHITE	Water	10/30/12 10:27	11/01/12 08:45
4069839007	TB	Water	10/30/12 00:00	11/01/12 08:45

REPORT OF LABORATORY ANALYSIS

Page 3 of 19

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SAMPLE ANALYTE COUNT

Project: 005134.0000.0000 WISDOT-STH 76

Pace Project No.: 4069839

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
4069839001	MW-1	WI MOD GRO	LCM	10	PASI-G
		EPA 6010	DLB	1	PASI-G
4069839002	MW-2	WI MOD GRO	LCM	10	PASI-G
		EPA 6010	DLB	1	PASI-G
4069839003	MW-3	WI MOD GRO	LCM	10	PASI-G
		EPA 6010	DLB	1	PASI-G
4069839004	MW-4	WI MOD GRO	LCM	10	PASI-G
		EPA 6010	DLB	1	PASI-G
4069839005	MW-5	WI MOD GRO	LCM	10	PASI-G
		EPA 6010	DLB	1	PASI-G
4069839006	PW-WHITE	EPA 6010	DLB	1	PASI-G
4069839007	TB	WI MOD GRO	LCM	10	PASI-G

REPORT OF LABORATORY ANALYSIS

PROJECT NARRATIVE

Project: 005134.0000.0000 WISDOT-STH 76

Pace Project No.: 4069839

Method: WI MOD GRO

Description: WIGRO GCV

Client: TRC - MADISON

Date: November 09, 2012

General Information:

6 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.

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 with any exceptions noted below.

Laboratory Control Spike:

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

Matrix Spikes:

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

Additional Comments:

REPORT OF LABORATORY ANALYSIS

PROJECT NARRATIVE

Project: 005134.0000.0000 WISDOT-STH 76
Pace Project No.: 4069839

Method: EPA 6010
Description: 6010 MET ICP
Client: TRC - MADISON
Date: November 09, 2012

General Information:

1 sample was analyzed for EPA 6010. 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 EPA 3010 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.

Method Blank:

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

Laboratory Control Spike:

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

Matrix Spikes:

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

Additional Comments:

REPORT OF LABORATORY ANALYSIS

PROJECT NARRATIVE

Project: 005134.0000.0000 WISDOT-STH 76
Pace Project No.: 4069839

Method: EPA 6010
Description: 6010 MET ICP, Dissolved
Client: TRC - MADISON
Date: November 09, 2012

General Information:

5 samples were analyzed for EPA 6010. 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.

Method Blank:

All analytes were below the report limit in the method blank 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.

ANALYTICAL RESULTS

Project: 005134.0000.0000 WISDOT-STH 76

Pace Project No.: 4069839

Sample: MW-1 **Lab ID: 4069839001** Collected: 10/30/12 10:45 Received: 11/01/12 08:45 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV		Analytical Method: WI MOD GRO							
Benzene	<0.39	ug/L	1.0	0.39	1		11/06/12 13:02	71-43-2	
Ethylbenzene	<0.41	ug/L	1.0	0.41	1		11/06/12 13:02	100-41-4	
Methyl-tert-butyl ether	<0.38	ug/L	1.0	0.38	1		11/06/12 13:02	1634-04-4	
Naphthalene	<0.40	ug/L	1.0	0.40	1		11/06/12 13:02	91-20-3	
Toluene	<0.42	ug/L	1.0	0.42	1		11/06/12 13:02	108-88-3	
1,2,4-Trimethylbenzene	<0.43	ug/L	1.0	0.43	1		11/06/12 13:02	95-63-6	
1,3,5-Trimethylbenzene	0.61J	ug/L	1.0	0.40	1		11/06/12 13:02	108-67-8	
m&p-Xylene	<0.87	ug/L	2.0	0.87	1		11/06/12 13:02	179601-23-1	
o-Xylene	<0.38	ug/L	1.0	0.38	1		11/06/12 13:02	95-47-6	
Surrogates									
a,a,a-Trifluorotoluene (S)	101 %		80-120		1		11/06/12 13:02	98-08-8	
6010 MET ICP, Dissolved		Analytical Method: EPA 6010							
Lead, Dissolved	<1.7	ug/L	7.5	1.7	1		11/07/12 19:18	7439-92-1	

ANALYTICAL RESULTS

Project: 005134.0000.0000 WISDOT-STH 76

Pace Project No.: 4069839

Sample: MW-2 **Lab ID: 4069839002** Collected: 10/30/12 11:25 Received: 11/01/12 08:45 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV		Analytical Method: WI MOD GRO							
Benzene	<0.97	ug/L	2.5	0.97	2.5		11/06/12 13:54	71-43-2	
Ethylbenzene	75.1	ug/L	2.5	1.0	2.5		11/06/12 13:54	100-41-4	
Methyl-tert-butyl ether	1.7J	ug/L	2.5	0.95	2.5		11/06/12 13:54	1634-04-4	
Naphthalene	60.1	ug/L	2.5	1.0	2.5		11/06/12 13:54	91-20-3	
Toluene	<1.0	ug/L	2.5	1.0	2.5		11/06/12 13:54	108-88-3	
1,2,4-Trimethylbenzene	228	ug/L	2.5	1.1	2.5		11/06/12 13:54	95-63-6	
1,3,5-Trimethylbenzene	81.0	ug/L	2.5	0.99	2.5		11/06/12 13:54	108-67-8	
m&p-Xylene	122	ug/L	5.0	2.2	2.5		11/06/12 13:54	179601-23-1	
o-Xylene	3.3	ug/L	2.5	0.95	2.5		11/06/12 13:54	95-47-6	
Surrogates									
a,a,a-Trifluorotoluene (S)	105 %		80-120		2.5		11/06/12 13:54	98-08-8	
6010 MET ICP, Dissolved		Analytical Method: EPA 6010							
Lead, Dissolved	4.4J	ug/L	7.5	1.7	1		11/07/12 19:24	7439-92-1	

ANALYTICAL RESULTS

Project: 005134.0000.0000 WISDOT-STH 76

Pace Project No.: 4069839

Sample: MW-3 **Lab ID: 4069839003** Collected: 10/30/12 09:55 Received: 11/01/12 08:45 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV		Analytical Method: WI MOD GRO							
Benzene	<0.39	ug/L	1.0	0.39	1		11/06/12 12:11	71-43-2	
Ethylbenzene	<0.41	ug/L	1.0	0.41	1		11/06/12 12:11	100-41-4	
Methyl-tert-butyl ether	<0.38	ug/L	1.0	0.38	1		11/06/12 12:11	1634-04-4	
Naphthalene	<0.40	ug/L	1.0	0.40	1		11/06/12 12:11	91-20-3	
Toluene	<0.42	ug/L	1.0	0.42	1		11/06/12 12:11	108-88-3	
1,2,4-Trimethylbenzene	<0.43	ug/L	1.0	0.43	1		11/06/12 12:11	95-63-6	
1,3,5-Trimethylbenzene	<0.40	ug/L	1.0	0.40	1		11/06/12 12:11	108-67-8	
m&p-Xylene	<0.87	ug/L	2.0	0.87	1		11/06/12 12:11	179601-23-1	
o-Xylene	<0.38	ug/L	1.0	0.38	1		11/06/12 12:11	95-47-6	
Surrogates									
a,a,a-Trifluorotoluene (S)	102 %		80-120		1		11/06/12 12:11	98-08-8	
6010 MET ICP, Dissolved		Analytical Method: EPA 6010							
Lead, Dissolved	<1.7	ug/L	7.5	1.7	1		11/07/12 19:26	7439-92-1	

ANALYTICAL RESULTS

Project: 005134.0000.0000 WISDOT-STH 76
Pace Project No.: 4069839

Sample: MW-4 **Lab ID: 4069839004** Collected: 10/29/12 15:55 Received: 11/01/12 08:45 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV		Analytical Method: WI MOD GRO							
Benzene	53.2	ug/L	1.0	0.39	1		11/06/12 13:28	71-43-2	
Ethylbenzene	4.4	ug/L	1.0	0.41	1		11/06/12 13:28	100-41-4	
Methyl-tert-butyl ether	1.8	ug/L	1.0	0.38	1		11/06/12 13:28	1634-04-4	
Naphthalene	0.71J	ug/L	1.0	0.40	1		11/06/12 13:28	91-20-3	
Toluene	7.9	ug/L	1.0	0.42	1		11/06/12 13:28	108-88-3	
1,2,4-Trimethylbenzene	0.89J	ug/L	1.0	0.43	1		11/06/12 13:28	95-63-6	
1,3,5-Trimethylbenzene	<0.40	ug/L	1.0	0.40	1		11/06/12 13:28	108-67-8	
m&p-Xylene	2.7	ug/L	2.0	0.87	1		11/06/12 13:28	179601-23-1	
o-Xylene	1.4	ug/L	1.0	0.38	1		11/06/12 13:28	95-47-6	
Surrogates									
a,a,a-Trifluorotoluene (S)	112	%	80-120		1		11/06/12 13:28	98-08-8	
6010 MET ICP, Dissolved		Analytical Method: EPA 6010							
Lead, Dissolved	<1.7	ug/L	7.5	1.7	1		11/07/12 19:29	7439-92-1	

ANALYTICAL RESULTS

Project: 005134.0000.0000 WISDOT-STH 76
Pace Project No.: 4069839

Sample: MW-5 **Lab ID: 4069839005** Collected: 10/29/12 16:55 Received: 11/01/12 08:45 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV		Analytical Method: WI MOD GRO							
Benzene	<0.39	ug/L	1.0	0.39	1		11/06/12 12:37	71-43-2	
Ethylbenzene	<0.41	ug/L	1.0	0.41	1		11/06/12 12:37	100-41-4	
Methyl-tert-butyl ether	<0.38	ug/L	1.0	0.38	1		11/06/12 12:37	1634-04-4	
Naphthalene	<0.40	ug/L	1.0	0.40	1		11/06/12 12:37	91-20-3	
Toluene	<0.42	ug/L	1.0	0.42	1		11/06/12 12:37	108-88-3	
1,2,4-Trimethylbenzene	<0.43	ug/L	1.0	0.43	1		11/06/12 12:37	95-63-6	
1,3,5-Trimethylbenzene	<0.40	ug/L	1.0	0.40	1		11/06/12 12:37	108-67-8	
m&p-Xylene	<0.87	ug/L	2.0	0.87	1		11/06/12 12:37	179601-23-1	
o-Xylene	<0.38	ug/L	1.0	0.38	1		11/06/12 12:37	95-47-6	
Surrogates									
a,a,a-Trifluorotoluene (S)	102	%	80-120		1		11/06/12 12:37	98-08-8	
6010 MET ICP, Dissolved		Analytical Method: EPA 6010							
Lead, Dissolved	<1.7	ug/L	7.5	1.7	1		11/07/12 19:31	7439-92-1	

ANALYTICAL RESULTS

Project: 005134.0000.0000 WISDOT-STH 76

Pace Project No.: 4069839

Sample: PW-WHITE **Lab ID: 4069839006** Collected: 10/30/12 10:27 Received: 11/01/12 08:45 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
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6010 MET ICP Analytical Method: EPA 6010 Preparation Method: EPA 3010

Lead	2.4J	ug/L	7.5	1.4	1	11/05/12 09:45	11/07/12 15:21	7439-92-1	
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ANALYTICAL RESULTS

Project: 005134.0000.0000 WISDOT-STH 76
Pace Project No.: 4069839

Sample: TB **Lab ID: 4069839007** Collected: 10/30/12 00:00 Received: 11/01/12 08:45 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV		Analytical Method: WI MOD GRO							
Benzene	<0.39	ug/L	1.0	0.39	1		11/06/12 14:46	71-43-2	
Ethylbenzene	<0.41	ug/L	1.0	0.41	1		11/06/12 14:46	100-41-4	
Methyl-tert-butyl ether	<0.38	ug/L	1.0	0.38	1		11/06/12 14:46	1634-04-4	
Naphthalene	<0.40	ug/L	1.0	0.40	1		11/06/12 14:46	91-20-3	
Toluene	<0.42	ug/L	1.0	0.42	1		11/06/12 14:46	108-88-3	
1,2,4-Trimethylbenzene	<0.43	ug/L	1.0	0.43	1		11/06/12 14:46	95-63-6	
1,3,5-Trimethylbenzene	<0.40	ug/L	1.0	0.40	1		11/06/12 14:46	108-67-8	
m&p-Xylene	<0.87	ug/L	2.0	0.87	1		11/06/12 14:46	179601-23-1	
o-Xylene	<0.38	ug/L	1.0	0.38	1		11/06/12 14:46	95-47-6	
Surrogates									
a,a,a-Trifluorotoluene (S)	102 %		80-120		1		11/06/12 14:46	98-08-8	

QUALITY CONTROL DATA

Project: 005134.0000.0000 WISDOT-STH 76

Pace Project No.: 4069839

QC Batch: GCV/9285 Analysis Method: WI MOD GRO
QC Batch Method: WI MOD GRO Analysis Description: WIGRO GCV Water
Associated Lab Samples: 4069839001, 4069839002, 4069839003, 4069839004, 4069839005, 4069839007

METHOD BLANK: 706828 Matrix: Water
Associated Lab Samples: 4069839001, 4069839002, 4069839003, 4069839004, 4069839005, 4069839007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2,4-Trimethylbenzene	ug/L	<0.43	1.0	11/06/12 10:28	
1,3,5-Trimethylbenzene	ug/L	<0.40	1.0	11/06/12 10:28	
Benzene	ug/L	<0.39	1.0	11/06/12 10:28	
Ethylbenzene	ug/L	<0.41	1.0	11/06/12 10:28	
m&p-Xylene	ug/L	<0.87	2.0	11/06/12 10:28	
Methyl-tert-butyl ether	ug/L	<0.38	1.0	11/06/12 10:28	
Naphthalene	ug/L	<0.40	1.0	11/06/12 10:28	
o-Xylene	ug/L	<0.38	1.0	11/06/12 10:28	
Toluene	ug/L	<0.42	1.0	11/06/12 10:28	
a,a,a-Trifluorotoluene (S)	%	102	80-120	11/06/12 10:28	

LABORATORY CONTROL SAMPLE & LCSD: 706829 706830

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
1,2,4-Trimethylbenzene	ug/L	20	20.8	20.9	104	105	80-120	1	20	
1,3,5-Trimethylbenzene	ug/L	20	21.0	21.2	105	106	80-120	1	20	
Benzene	ug/L	20	21.2	21.3	106	106	80-120	0	20	
Ethylbenzene	ug/L	20	20.0	20.2	100	101	80-120	1	20	
m&p-Xylene	ug/L	40	39.9	40.4	100	101	80-120	1	20	
Methyl-tert-butyl ether	ug/L	20	21.5	22.1	107	110	80-120	3	20	
Naphthalene	ug/L	20	20.3	21.2	101	106	80-120	4	20	
o-Xylene	ug/L	20	19.9	20.1	99	100	80-120	1	20	
Toluene	ug/L	20	20.3	20.4	101	102	80-120	1	20	
a,a,a-Trifluorotoluene (S)	%				102	102	80-120			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 706831 706832

Parameter	Units	4070013001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,2,4-Trimethylbenzene	ug/L	<0.43	20	20	22.9	23.4	114	117	10-200	2	20	
1,3,5-Trimethylbenzene	ug/L	<0.40	20	20	23.5	23.8	117	119	56-169	1	20	
Benzene	ug/L	<0.39	20	20	24.1	24.0	121	120	33-173	1	20	
Ethylbenzene	ug/L	<0.41	20	20	22.9	23.0	114	115	49-158	1	20	
m&p-Xylene	ug/L	<0.87	40	40	45.5	45.6	114	114	44-163	0	20	
Methyl-tert-butyl ether	ug/L	<0.38	20	20	23.3	21.7	116	108	80-130	7	20	
Naphthalene	ug/L	0.63J	20	20	21.9	22.0	107	107	67-141	0	20	
o-Xylene	ug/L	<0.38	20	20	22.5	22.3	112	112	64-140	0	20	
Toluene	ug/L	<0.42	20	20	22.9	23.1	115	116	79-132	1	20	
a,a,a-Trifluorotoluene (S)	%						102	102	80-120			

QUALITY CONTROL DATA

Project: 005134.0000.0000 WISDOT-STH 76

Pace Project No.: 4069839

QC Batch: ICP/6782 Analysis Method: EPA 6010
 QC Batch Method: EPA 6010 Analysis Description: ICP Metals, Trace, Dissolved
 Associated Lab Samples: 4069839001, 4069839002, 4069839003, 4069839004, 4069839005

METHOD BLANK: 708133 Matrix: Water
 Associated Lab Samples: 4069839001, 4069839002, 4069839003, 4069839004, 4069839005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Lead, Dissolved	ug/L	<1.7	7.5	11/07/12 19:06	

LABORATORY CONTROL SAMPLE: 708134

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lead, Dissolved	ug/L	500	463	93	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 708135 708136

Parameter	Units	708135		708136		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		4069685001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result						
Lead, Dissolved	ug/L	2.3J	500	500	458	448	91	89	75-125	2	20

QUALITY CONTROL DATA

Project: 005134.0000.0000 WISDOT-STH 76

Pace Project No.: 4069839

QC Batch:	MPRP/7745	Analysis Method:	EPA 6010
QC Batch Method:	EPA 3010	Analysis Description:	6010 MET
Associated Lab Samples:	4069839006		

METHOD BLANK: 706443 Matrix: Water

Associated Lab Samples: 4069839006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Lead	ug/L	<1.4	7.5	11/07/12 14:34	

LABORATORY CONTROL SAMPLE: 706444

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lead	ug/L	500	490	98	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 706445 706446

Parameter	Units	706445		706446		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		4069933001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result						
Lead	ug/L	1.6J	500	500	485	490	97	98	75-125	1	20

QUALIFIERS

Project: 005134.0000.0000 WISDOT-STH 76
Pace Project No.: 4069839

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

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 005134.0000.0000 WISDOT-STH 76

Pace Project No.: 4069839

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
4069839001	MW-1	WI MOD GRO	GCV/9285		
4069839002	MW-2	WI MOD GRO	GCV/9285		
4069839003	MW-3	WI MOD GRO	GCV/9285		
4069839004	MW-4	WI MOD GRO	GCV/9285		
4069839005	MW-5	WI MOD GRO	GCV/9285		
4069839007	TB	WI MOD GRO	GCV/9285		
4069839006	PW-WHITE	EPA 3010	MPRP/7745	EPA 6010	ICP/6776
4069839001	MW-1	EPA 6010	ICP/6782		
4069839002	MW-2	EPA 6010	ICP/6782		
4069839003	MW-3	EPA 6010	ICP/6782		
4069839004	MW-4	EPA 6010	ICP/6782		
4069839005	MW-5	EPA 6010	ICP/6782		

(Please Print Clearly)

UPPER MIDWEST REGION

Page 1 of

MN: 612-607-1700 WI: 920-469-2436

Company Name: TRC Environmental
 Branch/Location: MADISON
 Project Contact: T. O'Connell
 Phone: 608-630-6710
 Project Number: 005134.0000.0000
 Project Name: WISDOT-STH 76
 Project State: WI
 Sampled By (Print): Ted O'Connell
 Sampled By (Sign): *Ted O'Connell*
 PO #: 50767



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)	Y/N	N	Y	N														
PRESERVATION (CODE)*	Pick Letter	B	D	D														

Regulatory Program:	Analyses Requested	PVOCs/Naph	Dis. Pb	Tox Pb														
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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

Quote #: 4069839

Mail To Contact:
 Mail To Company:
 Mail To Address:

Invoice To Contact: Ted O'Connell
 Invoice To Company: TRC Env.
 Invoice To Address: 708 Hartland Trail
 Madison WI 53717
 Invoice To Phone: 608-630-6710

PACE LAB #	CLIENT FIELD ID	COLLECTION		MATRIX	Analysis Requested	Y	N	Y	N										
		DATE	TIME																
001	MW-1	10/30	045	GW	X														
002	MW-2	10/30	1125	GW															
003	MW-3	10/30	955	GW															
004	MW-4	10/29/12	1555	GW															
005	MW-5	10/19	1655	GW															
006	PW-WHITE	10/30	1027	DW															
007	T.B*																		

CLIENT COMMENTS	LAB COMMENTS (Lab Use Only)	Profile #
	1-250ml ^p 3-40ml ^B	
	↓ ↓ ↓ ↓ ↓	
	2-40ml ^B	

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: Ted O'Connell Date/Time: 10/31/12 1600	Received By: TRC Cooler Date/Time: 10/31/12 1600
Relinquished By: Waltco Date/Time: 11/01/12 0845	Received By: M. Vannina Date/Time: 11/1/12 0845
Relinquished By:	Received By:
Relinquished By:	Received By:

PACE Project No. 4069839

Receipt Temp = 20.1 °C

Sample Receipt pH OK/Adjusted

Cooler Custody Seal Present/Not Present Intact/Not Intact

*TB added to COC by lab 11/1/12



Sample Condition Upon Receipt

Client Name: TRC Project # 4069839

Courier: Fed Ex UPS USPS Client Commercial Pace Other Walter

Tracking #: 257574

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 ROI Biological Tissue is Frozen: yes no

Temp Blank Present: yes no

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

Person examining contents:
Date: 11/1/12
Initials: MV

		Comments:
Chain of Custody Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.
Chain of Custody Filled Out:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.
Chain of Custody Relinquished:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3.
Sampler Name & Signature on COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4.
Samples Arrived within Hold Time:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	5.
Short Hold Time Analysis (<72hr):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	6.
Rush Turn Around Time Requested:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	7.
Sufficient Volume:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	8.
Correct Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.
-Pace Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Containers Intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	10.
Filtered volume received for Dissolved tests	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	11.
Sample Labels match COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	12.
-Includes date/time/ID/Analysis Matrix:	<u>W</u>	
All containers needing preservation have been checked.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	13.
All containers needing preservation are found to be in compliance with EPA recommendation.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
exceptions: <u>VOA</u> , coliform, TOC, O&G, WI-DRO (water)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Initial when completed <u>MV</u> Lot # of added preservative
Samples checked for dechlorination:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	14.
Headspace in VOA Vials (>6mm):	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	15. <u>007 2-40ml^B have headspace</u>
Trip Blank Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	16.
Trip Blank Custody Seals Present	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	<u>* Added to COC by lab</u>
Pace Trip Blank Lot # (if purchased): <u>238</u>		<u>11/1/12 MV</u>

Client Notification/ Resolution: _____ Date/Time: _____ Field Data Required? Y I N

Person Contacted: _____

Comments/ Resolution: _____

Project Manager Review: Tom Holtzberg Date: 11/1/12

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

May 08, 2013

TED O'CONNELL
TRC - MADISON
744 HEARTLAND TRAIL
Madison, WI 53717


RE: Project: 005134 WIS DOT STEPHENSVILLE
Pace Project No.: 4076937

Dear TED O'CONNELL:

Enclosed are the analytical results for sample(s) received by the laboratory on April 27, 2013. 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,



Tod Noltemeyer

tod.noltemeyer@pacelabs.com
Project Manager

Enclosures



REPORT OF LABORATORY ANALYSIS

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without the written consent of Pace Analytical Services, Inc..

CERTIFICATIONS

Project: 005134 WIS DOT STEPHENSVILLE

Pace Project No.: 4076937

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

SAMPLE SUMMARY

Project: 005134 WIS DOT STEPHENSVILLE

Pace Project No.: 4076937

Lab ID	Sample ID	Matrix	Date Collected	Date Received
4076937001	MW-4	Water	04/25/13 11:40	04/27/13 07:55
4076937002	MW-5	Water	04/25/13 13:00	04/27/13 07:55
4076937003	MW-1	Water	04/25/13 14:10	04/27/13 07:55
4076937004	MW-2	Water	04/25/13 15:10	04/27/13 07:55
4076937005	MW-3	Water	04/25/13 00:00	04/27/13 07:55
4076937006	TRIP BLANK	Water	04/25/13 00:00	04/27/13 07:55

REPORT OF LABORATORY ANALYSIS

SAMPLE ANALYTE COUNT

Project: 005134 WIS DOT STEPHENSVILLE

Pace Project No.: 4076937

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
4076937001	MW-4	WI MOD GRO	MRS	9	PASI-G
		EPA 6010	DLB	1	PASI-G
4076937002	MW-5	WI MOD GRO	MRS	9	PASI-G
		EPA 6010	DLB	1	PASI-G
4076937003	MW-1	WI MOD GRO	MRS	9	PASI-G
		EPA 6010	DLB	1	PASI-G
4076937004	MW-2	WI MOD GRO	MRS	9	PASI-G
		EPA 6010	DLB	1	PASI-G
4076937005	MW-3	WI MOD GRO	MRS	9	PASI-G
		EPA 6010	DLB	1	PASI-G
4076937006	TRIP BLANK	WI MOD GRO	MRS	9	PASI-G

REPORT OF LABORATORY ANALYSIS

HITS ONLY

Project: 005134 WIS DOT STEPHENSVILLE

Pace Project No.: 4076937

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
4076937001	MW-4					
WI MOD GRO	Benzene	33.2	ug/L	1.0	04/29/13 14:27	
WI MOD GRO	Ethylbenzene	4.6	ug/L	1.0	04/29/13 14:27	
WI MOD GRO	Methyl-tert-butyl ether	5.7	ug/L	1.0	04/29/13 14:27	
WI MOD GRO	Naphthalene	0.58J	ug/L	1.0	04/29/13 14:27	
WI MOD GRO	Toluene	6.4	ug/L	1.0	04/29/13 14:27	
WI MOD GRO	Xylene (Total)	2.9J	ug/L	3.0	04/29/13 14:27	
4076937002	MW-5					
WI MOD GRO	Methyl-tert-butyl ether	0.49J	ug/L	1.0	04/29/13 12:19	
EPA 6010	Lead, Dissolved	3.4J	ug/L	7.5	04/30/13 18:54	B
4076937003	MW-1					
EPA 6010	Lead, Dissolved	1.5J	ug/L	7.5	04/30/13 18:56	B
4076937004	MW-2					
WI MOD GRO	Ethylbenzene	0.44J	ug/L	1.0	04/30/13 11:12	
WI MOD GRO	Naphthalene	1.7	ug/L	1.0	04/30/13 11:12	
WI MOD GRO	1,2,4-Trimethylbenzene	6.9	ug/L	1.0	04/30/13 11:12	
WI MOD GRO	1,3,5-Trimethylbenzene	5.4	ug/L	1.0	04/30/13 11:12	
WI MOD GRO	Xylene (Total)	1.9J	ug/L	3.0	04/30/13 11:12	
EPA 6010	Lead, Dissolved	4.1J	ug/L	7.5	04/30/13 18:58	B
4076937005	MW-3					
EPA 6010	Lead, Dissolved	2.7J	ug/L	7.5	04/30/13 19:05	B

REPORT OF LABORATORY ANALYSIS

PROJECT NARRATIVE

Project: 005134 WIS DOT STEPHENSVILLE

Pace Project No.: 4076937

Method: WI MOD GRO

Description: WIGRO GCV

Client: TRC - MADISON

Date: May 08, 2013

General Information:

6 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.

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 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:

PROJECT NARRATIVE

Project: 005134 WIS DOT STEPHENSVILLE

Pace Project No.: 4076937

Method: EPA 6010

Description: 6010 MET ICP, Dissolved

Client: TRC - MADISON

Date: May 08, 2013

General Information:

5 samples were analyzed for EPA 6010. 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.

Method Blank:

All analytes were below the report limit in the method blank 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

ANALYTICAL RESULTS

Project: 005134 WIS DOT STEPHENSVILLE

Pace Project No.: 4076937

Sample: MW-4 **Lab ID: 4076937001** Collected: 04/25/13 11:40 Received: 04/27/13 07:55 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV									
Analytical Method: WI MOD GRO									
1,2,4-Trimethylbenzene	<0.43	ug/L	1.0	0.43	1		04/29/13 14:27	95-63-6	
1,3,5-Trimethylbenzene	<0.40	ug/L	1.0	0.40	1		04/29/13 14:27	108-67-8	
Benzene	33.2	ug/L	1.0	0.39	1		04/29/13 14:27	71-43-2	
Ethylbenzene	4.6	ug/L	1.0	0.41	1		04/29/13 14:27	100-41-4	
Methyl-tert-butyl ether	5.7	ug/L	1.0	0.38	1		04/29/13 14:27	1634-04-4	
Naphthalene	0.58J	ug/L	1.0	0.40	1		04/29/13 14:27	91-20-3	
Toluene	6.4	ug/L	1.0	0.42	1		04/29/13 14:27	108-88-3	
Xylene (Total)	2.9J	ug/L	3.0	1.3	1		04/29/13 14:27	1330-20-7	
Surrogates									
a,a,a-Trifluorotoluene (S)	98	%	80-120		1		04/29/13 14:27	98-08-8	
6010 MET ICP, Dissolved									
Analytical Method: EPA 6010									
Lead, Dissolved	<1.2	ug/L	7.5	1.2	1		04/30/13 18:51	7439-92-1	

ANALYTICAL RESULTS

Project: 005134 WIS DOT STEPHENSVILLE

Pace Project No.: 4076937

Sample: MW-5 **Lab ID: 4076937002** Collected: 04/25/13 13:00 Received: 04/27/13 07:55 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV									
Analytical Method: WI MOD GRO									
Benzene	<0.39	ug/L	1.0	0.39	1		04/29/13 12:19	71-43-2	
Ethylbenzene	<0.41	ug/L	1.0	0.41	1		04/29/13 12:19	100-41-4	
Methyl-tert-butyl ether	0.49J	ug/L	1.0	0.38	1		04/29/13 12:19	1634-04-4	
Naphthalene	<0.40	ug/L	1.0	0.40	1		04/29/13 12:19	91-20-3	
Toluene	<0.42	ug/L	1.0	0.42	1		04/29/13 12:19	108-88-3	
1,2,4-Trimethylbenzene	<0.43	ug/L	1.0	0.43	1		04/29/13 12:19	95-63-6	
1,3,5-Trimethylbenzene	<0.40	ug/L	1.0	0.40	1		04/29/13 12:19	108-67-8	
Xylene (Total)	<1.3	ug/L	3.0	1.3	1		04/29/13 12:19	1330-20-7	
Surrogates									
a,a,a-Trifluorotoluene (S)	98	%	80-120		1		04/29/13 12:19	98-08-8	
6010 MET ICP, Dissolved									
Analytical Method: EPA 6010									
Lead, Dissolved	3.4J	ug/L	7.5	1.2	1		04/30/13 18:54	7439-92-1	B

ANALYTICAL RESULTS

Project: 005134 WIS DOT STEPHENSVILLE

Pace Project No.: 4076937

Sample: MW-1 **Lab ID: 4076937003** Collected: 04/25/13 14:10 Received: 04/27/13 07:55 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV		Analytical Method: WI MOD GRO							
Benzene	<0.39	ug/L	1.0	0.39	1		04/29/13 20:25	71-43-2	
Ethylbenzene	<0.41	ug/L	1.0	0.41	1		04/29/13 20:25	100-41-4	
Methyl-tert-butyl ether	<0.38	ug/L	1.0	0.38	1		04/29/13 20:25	1634-04-4	
Naphthalene	<0.40	ug/L	1.0	0.40	1		04/29/13 20:25	91-20-3	
Toluene	<0.42	ug/L	1.0	0.42	1		04/29/13 20:25	108-88-3	
1,2,4-Trimethylbenzene	<0.43	ug/L	1.0	0.43	1		04/29/13 20:25	95-63-6	
1,3,5-Trimethylbenzene	<0.40	ug/L	1.0	0.40	1		04/29/13 20:25	108-67-8	
Xylene (Total)	<1.3	ug/L	3.0	1.3	1		04/29/13 20:25	1330-20-7	
Surrogates									
a,a,a-Trifluorotoluene (S)	97	%	80-120		1		04/29/13 20:25	98-08-8	
6010 MET ICP, Dissolved		Analytical Method: EPA 6010							
Lead, Dissolved	1.5J	ug/L	7.5	1.2	1		04/30/13 18:56	7439-92-1	B

ANALYTICAL RESULTS

Project: 005134 WIS DOT STEPHENSVILLE

Pace Project No.: 4076937

Sample: MW-2 **Lab ID: 4076937004** Collected: 04/25/13 15:10 Received: 04/27/13 07:55 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV		Analytical Method: WI MOD GRO							
Benzene	<0.39	ug/L	1.0	0.39	1		04/30/13 11:12	71-43-2	
Ethylbenzene	0.44J	ug/L	1.0	0.41	1		04/30/13 11:12	100-41-4	
Methyl-tert-butyl ether	<0.38	ug/L	1.0	0.38	1		04/30/13 11:12	1634-04-4	
Naphthalene	1.7	ug/L	1.0	0.40	1		04/30/13 11:12	91-20-3	
Toluene	<0.42	ug/L	1.0	0.42	1		04/30/13 11:12	108-88-3	
1,2,4-Trimethylbenzene	6.9	ug/L	1.0	0.43	1		04/30/13 11:12	95-63-6	
1,3,5-Trimethylbenzene	5.4	ug/L	1.0	0.40	1		04/30/13 11:12	108-67-8	
Xylene (Total)	1.9J	ug/L	3.0	1.3	1		04/30/13 11:12	1330-20-7	
Surrogates									
a,a,a-Trifluorotoluene (S)	99 %		80-120		1		04/30/13 11:12	98-08-8	
6010 MET ICP, Dissolved		Analytical Method: EPA 6010							
Lead, Dissolved	4.1J	ug/L	7.5	1.2	1		04/30/13 18:58	7439-92-1	B

ANALYTICAL RESULTS

Project: 005134 WIS DOT STEPHENSVILLE

Pace Project No.: 4076937

Sample: MW-3 **Lab ID: 4076937005** Collected: 04/25/13 00:00 Received: 04/27/13 07:55 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV									
Analytical Method: WI MOD GRO									
Benzene	<0.39	ug/L	1.0	0.39	1		04/29/13 12:44	71-43-2	
Ethylbenzene	<0.41	ug/L	1.0	0.41	1		04/29/13 12:44	100-41-4	
Methyl-tert-butyl ether	<0.38	ug/L	1.0	0.38	1		04/29/13 12:44	1634-04-4	
Naphthalene	<0.40	ug/L	1.0	0.40	1		04/29/13 12:44	91-20-3	
Toluene	<0.42	ug/L	1.0	0.42	1		04/29/13 12:44	108-88-3	
1,2,4-Trimethylbenzene	<0.43	ug/L	1.0	0.43	1		04/29/13 12:44	95-63-6	
1,3,5-Trimethylbenzene	<0.40	ug/L	1.0	0.40	1		04/29/13 12:44	108-67-8	
Xylene (Total)	<1.3	ug/L	3.0	1.3	1		04/29/13 12:44	1330-20-7	
Surrogates									
a,a,a-Trifluorotoluene (S)	94	%	80-120		1		04/29/13 12:44	98-08-8	
6010 MET ICP, Dissolved									
Analytical Method: EPA 6010									
Lead, Dissolved	2.7J	ug/L	7.5	1.2	1		04/30/13 19:05	7439-92-1	B

ANALYTICAL RESULTS

Project: 005134 WIS DOT STEPHENSVILLE

Pace Project No.: 4076937

Sample: TRIP BLANK **Lab ID: 4076937006** Collected: 04/25/13 00:00 Received: 04/27/13 07:55 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV		Analytical Method: WI MOD GRO							
Benzene	<0.39	ug/L	1.0	0.39	1		04/29/13 15:44	71-43-2	
Ethylbenzene	<0.41	ug/L	1.0	0.41	1		04/29/13 15:44	100-41-4	
Methyl-tert-butyl ether	<0.38	ug/L	1.0	0.38	1		04/29/13 15:44	1634-04-4	
Naphthalene	<0.40	ug/L	1.0	0.40	1		04/29/13 15:44	91-20-3	
Toluene	<0.42	ug/L	1.0	0.42	1		04/29/13 15:44	108-88-3	
1,2,4-Trimethylbenzene	<0.43	ug/L	1.0	0.43	1		04/29/13 15:44	95-63-6	
1,3,5-Trimethylbenzene	<0.40	ug/L	1.0	0.40	1		04/29/13 15:44	108-67-8	
Xylene (Total)	<1.3	ug/L	3.0	1.3	1		04/29/13 15:44	1330-20-7	
Surrogates									
a,a,a-Trifluorotoluene (S)	97	%	80-120		1		04/29/13 15:44	98-08-8	

QUALITY CONTROL DATA

Project: 005134 WIS DOT STEPHENSVILLE

Project No.: 4076937

QC Batch: GCV/10142 Analysis Method: WI MOD GRO
 QC Batch Method: WI MOD GRO Analysis Description: WIGRO GCV Water
 Associated Lab Samples: 4076937001, 4076937002, 4076937003, 4076937004, 4076937005, 4076937006

METHOD BLANK: 781338 Matrix: Water
 Associated Lab Samples: 4076937001, 4076937002, 4076937003, 4076937004, 4076937005, 4076937006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2,4-Trimethylbenzene	ug/L	<0.43	1.0	04/29/13 10:37	
1,3,5-Trimethylbenzene	ug/L	<0.40	1.0	04/29/13 10:37	
Benzene	ug/L	<0.39	1.0	04/29/13 10:37	
Ethylbenzene	ug/L	<0.41	1.0	04/29/13 10:37	
Methyl-tert-butyl ether	ug/L	<0.38	1.0	04/29/13 10:37	
Naphthalene	ug/L	<0.40	1.0	04/29/13 10:37	
Toluene	ug/L	<0.42	1.0	04/29/13 10:37	
Xylene (Total)	ug/L	<1.3	3.0	04/29/13 10:37	
a,a,a-Trifluorotoluene (S)	%	94	80-120	04/29/13 10:37	

LABORATORY CONTROL SAMPLE & LCSD: 781339 781340

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
1,2,4-Trimethylbenzene	ug/L	20	18.5	18.3	92	91	80-120	1	20	
1,3,5-Trimethylbenzene	ug/L	20	18.5	18.3	92	91	80-120	1	20	
Benzene	ug/L	20	21.3	21.3	106	107	80-120	0	20	
Ethylbenzene	ug/L	20	20.0	19.8	100	99	80-120	1	20	
Methyl-tert-butyl ether	ug/L	20	21.0	21.1	105	105	80-120	0	20	
Naphthalene	ug/L	20	18.7	18.6	93	93	80-120	0	20	
Toluene	ug/L	20	20.2	20.2	101	101	80-120	0	20	
Xylene (Total)	ug/L	60	59.1	58.1	98	97	80-120	2	20	
a,a,a-Trifluorotoluene (S)	%				96	97	80-120			

QUALITY CONTROL DATA

Project: 005134 WIS DOT STEPHENSVILLE

Pace Project No.: 4076937

QC Batch: ICP/7450

Analysis Method: EPA 6010

QC Batch Method: EPA 6010

Analysis Description: ICP Metals, Trace, Dissolved

Associated Lab Samples: 4076937001, 4076937002, 4076937003, 4076937004, 4076937005

METHOD BLANK: 782097

Matrix: Water

Associated Lab Samples: 4076937001, 4076937002, 4076937003, 4076937004, 4076937005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Lead, Dissolved	ug/L	1.5J	7.5	04/30/13 18:23	

LABORATORY CONTROL SAMPLE: 782098

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lead, Dissolved	ug/L	500	493	99	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 782099 782100

Parameter	Units	4076871001		MS		MSD		% Rec		Max		Qual
		Result	Conc.	Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec	Limits	RPD	
Lead, Dissolved	ug/L	1.4J	500	500	593	586	118	117	75-125	1	20	

QUALIFIERS

Project: 005134 WIS DOT STEPHENSVILLE

Pace Project No.: 4076937

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

B Analyte was detected in the associated method blank.

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 005134 WIS DOT STEPHENSVILLE

Pace Project No.: 4076937

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
4076937001	MW-4	WI MOD GRO	GCV/10142		
4076937002	MW-5	WI MOD GRO	GCV/10142		
4076937003	MW-1	WI MOD GRO	GCV/10142		
4076937004	MW-2	WI MOD GRO	GCV/10142		
4076937005	MW-3	WI MOD GRO	GCV/10142		
4076937006	TRIP BLANK	WI MOD GRO	GCV/10142		
4076937001	MW-4	EPA 6010	ICP/7450		
4076937002	MW-5	EPA 6010	ICP/7450		
4076937003	MW-1	EPA 6010	ICP/7450		
4076937004	MW-2	EPA 6010	ICP/7450		
4076937005	MW-3	EPA 6010	ICP/7450		

(Please Print Clearly)

UPPER MIDWEST REGION

MN: 612-607-1700 WI: 920-469-2436

4076937



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

Company Name: TRC ENVIRONMENTAL
 Branch/Location: MADISON
 Project Contact: T. O'Connell
 Phone: 608.630.6710
 Project Number: 005134.0000-0000
 Project Name: WSDOT-Stephensville
 Project State: WI
 Sampled By (Print): Ted O'Connell
 Sampled By (Sign): *[Signature]*
 PO #:
 Regulatory Program:

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
 Sl = Sludge WP = Wipe

PACE LAB #	CLIENT FIELD ID	COLLECTION		MATRIX
		DATE	TIME	
001	MW-4	4/25/13	1440	GW
002	MW-5		1300	
003	MW-1		1410	
004	MW-2		1570	
005	MW-3			
006	TRIP BLANK			

FILTERED? (YES/NO)	Y/N	Pick Letter	Analyses Requested
	N	B	PNO3/NPHT
	Y	D	Diss. Lead

Quote #:
 Mail To Contact:
 Mail To Company:
 Mail To Address:
 Invoice To Contact: T. O'Connell
 Invoice To Company: TRC ENV.
 Invoice To Address:
 Invoice To Phone:
 CLIENT COMMENTS
 LAB COMMENTS (Lab Use Only)
 Profile #

3-40ml B; 1-250ml p^o
 4-40ml B

Rush Turnaround Time Requested - Prelims (Rush TAT subject to approval/surcharge)
 Date Needed:
 Transmit Prelim Rush Results by (complete what you want):

Relinquished By: <i>T. O'Connell</i>	Date/Time: 4/26/13 730	Received By: <i>TRC Coolan</i>	Date/Time: 4/26/13 730
Relinquished By: <i>Walco</i>	Date/Time: 4/27/13 0755	Received By: <i>E. Nelson Pace GB</i>	Date/Time: 4/27/13 0755
Relinquished By:	Date/Time:	Received By:	Date/Time:
Relinquished By:	Date/Time:	Received By:	Date/Time:

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

PACE Project No. 4076937
 Receipt Temp = ROT^c
 Sample Receipt pH (OK) Adjusted
 Cooler Custody Seal Present / (Not Present) Intact / Not Intact

Pace Analytical™

Sample Condition Upon Receipt

Client Name: TRC Project # 4076937

Courier: Fed Ex UPS USPS Client Commercial Pace Other Walco
 Tracking #: 334339
 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: ROF / Corr: _____ Biological Tissue is Frozen: yes no
 Temp Blank Present: yes no

Person examining contents:
 Date: 4/27/13
 Initials: EMH

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

Comments:

Chain of Custody Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.
Chain of Custody Filled Out:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.
Chain of Custody Relinquished:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3.
Sampler Name & Signature on COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4.
Samples Arrived within Hold Time:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	5.
- VOA Samples frozen upon receipt	<input type="checkbox"/> Yes <input type="checkbox"/> No	Date/Time:
Short Hold Time Analysis (<72hr):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	6.
Rush Turn Around Time Requested:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	7.
Sufficient Volume:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	8.
Correct Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.
-Pace Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
-Pace IR Containers Used:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Containers Intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	10.
Filtered volume received for Dissolved tests	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	11.
Sample Labels match COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	12.
-Includes date/time/ID/Analysis Matrix: <u>W</u>		
All containers needing preservation have been checked. (Non-Compliance noted in 13.)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	13. <input checked="" type="checkbox"/> HNO3 <input type="checkbox"/> H2SO4 <input type="checkbox"/> NaOH <input type="checkbox"/> NaOH + ZnAct
All containers needing preservation are found to be in compliance with EPA recommendation. (HNO3, H2SO4 ≤2; NaOH+ZnAct ≥9, NaOH ≥12)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
exceptions: <u>VOA</u> coliform, TOC, TOX, TOH, O&G, WIDROW, Phenolics, OTHER: _____	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Initial when completed <u>EMH</u> Lab Std #ID of preservative _____ Date/Time: _____
Headspace in VOA Vials (>6mm):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	14.
Trip Blank Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	15.
Trip Blank Custody Seals Present	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Pace Trip Blank Lot # (if purchased): <u>305</u>		

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

Project Manager Review: MMT for TN Date: 5/1 4.27.13
MMT

December 13, 2013

Ted O'Connell
TRC - Madison
708 Heartland Trail
Madison, WI 53717

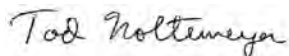
RE: Project: 005134.0000 WISDOT-STH 76
Pace Project No.: 4089707

Dear Ted O'Connell:

Enclosed are the analytical results for sample(s) received by the laboratory on December 10, 2013. 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,



Tod Noltemeyer

tod.noltemeyer@pacelabs.com
Project Manager

Enclosures



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: 005134.0000 WISDOT-STH 76

Pace Project No.: 4089707

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

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: 005134.0000 WISDOT-STH 76

Pace Project No.: 4089707

Lab ID	Sample ID	Matrix	Date Collected	Date Received
4089707001	MW-4	Water	12/06/13 12:05	12/10/13 09:10
4089707002	MW-5	Water	12/06/13 12:35	12/10/13 09:10
4089707003	MW-1	Water	12/06/13 13:10	12/10/13 09:10
4089707004	MW-2	Water	12/06/13 13:45	12/10/13 09:10
4089707005	MW-3	Water	12/06/13 14:30	12/10/13 09:10

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SAMPLE ANALYTE COUNT

Project: 005134.0000 WISDOT-STH 76
Pace Project No.: 4089707

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
4089707001	MW-4	WI MOD GRO	LCF	10	PASI-G
		EPA 6010	DLB	1	PASI-G
4089707002	MW-5	WI MOD GRO	LCF	10	PASI-G
		EPA 6010	DLB	1	PASI-G
4089707003	MW-1	WI MOD GRO	LCF	10	PASI-G
		EPA 6010	DLB	1	PASI-G
4089707004	MW-2	WI MOD GRO	LCF	10	PASI-G
		EPA 6010	DLB	1	PASI-G
4089707005	MW-3	WI MOD GRO	LCF	10	PASI-G
		EPA 6010	DLB	1	PASI-G

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SUMMARY OF DETECTION

Project: 005134.0000 WISDOT-STH 76

Pace Project No.: 4089707

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
4089707001	MW-4					
WI MOD GRO	Benzene	0.92J	ug/L	1.0	12/11/13 15:10	
EPA 6010	Lead, Dissolved	2.0J	ug/L	7.5	12/11/13 18:55	
4089707002	MW-5					
EPA 6010	Lead, Dissolved	1.9J	ug/L	7.5	12/11/13 18:58	
4089707003	MW-1					
EPA 6010	Lead, Dissolved	2.9J	ug/L	7.5	12/11/13 19:00	
4089707004	MW-2					
WI MOD GRO	Ethylbenzene	55.1	ug/L	1.0	12/11/13 16:36	
WI MOD GRO	Methyl-tert-butyl ether	1.6	ug/L	1.0	12/11/13 16:36	
WI MOD GRO	Naphthalene	47.3	ug/L	1.0	12/11/13 16:36	
WI MOD GRO	1,2,4-Trimethylbenzene	87.3	ug/L	1.0	12/11/13 16:36	
WI MOD GRO	1,3,5-Trimethylbenzene	53.7	ug/L	1.0	12/11/13 16:36	
WI MOD GRO	m&p-Xylene	72.8	ug/L	2.0	12/11/13 16:36	
WI MOD GRO	o-Xylene	1.9	ug/L	1.0	12/11/13 16:36	
EPA 6010	Lead, Dissolved	3.1J	ug/L	7.5	12/11/13 19:02	
4089707005	MW-3					
WI MOD GRO	Benzene	1.5	ug/L	1.0	12/12/13 22:48	
WI MOD GRO	Naphthalene	1.2	ug/L	1.0	12/12/13 22:48	
WI MOD GRO	Toluene	0.39J	ug/L	1.0	12/12/13 22:48	
WI MOD GRO	m&p-Xylene	3.6	ug/L	2.0	12/12/13 22:48	
EPA 6010	Lead, Dissolved	4.0J	ug/L	7.5	12/11/13 19:09	

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: 005134.0000 WISDOT-STH 76

Pace Project No.: 4089707

Method: WI MOD GRO

Description: WIGRO GCV

Client: TRC - MADISON

Date: December 13, 2013

General Information:

5 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.

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:

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: 005134.0000 WISDOT-STH 76

Pace Project No.: 4089707

Method: EPA 6010

Description: 6010 MET ICP, Dissolved

Client: TRC - MADISON

Date: December 13, 2013

General Information:

5 samples were analyzed for EPA 6010. 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.

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: 005134.0000 WISDOT-STH 76

Pace Project No.: 4089707

Sample: MW-4 **Lab ID: 4089707001** Collected: 12/06/13 12:05 Received: 12/10/13 09:10 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV		Analytical Method: WI MOD GRO							
Benzene	0.92J	ug/L	1.0	0.34	1		12/11/13 15:10	71-43-2	
Ethylbenzene	<0.34	ug/L	1.0	0.34	1		12/11/13 15:10	100-41-4	
Methyl-tert-butyl ether	<0.37	ug/L	1.0	0.37	1		12/11/13 15:10	1634-04-4	
Naphthalene	<0.37	ug/L	1.0	0.37	1		12/11/13 15:10	91-20-3	
Toluene	<0.34	ug/L	1.0	0.34	1		12/11/13 15:10	108-88-3	
1,2,4-Trimethylbenzene	<0.33	ug/L	1.0	0.33	1		12/11/13 15:10	95-63-6	
1,3,5-Trimethylbenzene	<0.36	ug/L	1.0	0.36	1		12/11/13 15:10	108-67-8	
m&p-Xylene	<0.71	ug/L	2.0	0.71	1		12/11/13 15:10	179601-23-1	
o-Xylene	<0.32	ug/L	1.0	0.32	1		12/11/13 15:10	95-47-6	
Surrogates									
a,a,a-Trifluorotoluene (S)	103 %		80-120		1		12/11/13 15:10	98-08-8	
6010 MET ICP, Dissolved		Analytical Method: EPA 6010							
Lead, Dissolved	2.0J	ug/L	7.5	1.2	1		12/11/13 18:55	7439-92-1	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 005134.0000 WISDOT-STH 76

Pace Project No.: 4089707

Sample: MW-5 **Lab ID: 4089707002** Collected: 12/06/13 12:35 Received: 12/10/13 09:10 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV		Analytical Method: WI MOD GRO							
Benzene	<0.34	ug/L	1.0	0.34	1		12/11/13 15:39	71-43-2	
Ethylbenzene	<0.34	ug/L	1.0	0.34	1		12/11/13 15:39	100-41-4	
Methyl-tert-butyl ether	<0.37	ug/L	1.0	0.37	1		12/11/13 15:39	1634-04-4	
Naphthalene	<0.37	ug/L	1.0	0.37	1		12/11/13 15:39	91-20-3	
Toluene	<0.34	ug/L	1.0	0.34	1		12/11/13 15:39	108-88-3	
1,2,4-Trimethylbenzene	<0.33	ug/L	1.0	0.33	1		12/11/13 15:39	95-63-6	
1,3,5-Trimethylbenzene	<0.36	ug/L	1.0	0.36	1		12/11/13 15:39	108-67-8	
m&p-Xylene	<0.71	ug/L	2.0	0.71	1		12/11/13 15:39	179601-23-1	
o-Xylene	<0.32	ug/L	1.0	0.32	1		12/11/13 15:39	95-47-6	
Surrogates									
a,a,a-Trifluorotoluene (S)	100 %		80-120		1		12/11/13 15:39	98-08-8	
6010 MET ICP, Dissolved		Analytical Method: EPA 6010							
Lead, Dissolved	1.9J	ug/L	7.5	1.2	1		12/11/13 18:58	7439-92-1	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 005134.0000 WISDOT-STH 76

Pace Project No.: 4089707

Sample: MW-1 **Lab ID: 4089707003** Collected: 12/06/13 13:10 Received: 12/10/13 09:10 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV		Analytical Method: WI MOD GRO							
Benzene	<0.34	ug/L	1.0	0.34	1		12/11/13 16:08	71-43-2	
Ethylbenzene	<0.34	ug/L	1.0	0.34	1		12/11/13 16:08	100-41-4	
Methyl-tert-butyl ether	<0.37	ug/L	1.0	0.37	1		12/11/13 16:08	1634-04-4	
Naphthalene	<0.37	ug/L	1.0	0.37	1		12/11/13 16:08	91-20-3	
Toluene	<0.34	ug/L	1.0	0.34	1		12/11/13 16:08	108-88-3	
1,2,4-Trimethylbenzene	<0.33	ug/L	1.0	0.33	1		12/11/13 16:08	95-63-6	
1,3,5-Trimethylbenzene	<0.36	ug/L	1.0	0.36	1		12/11/13 16:08	108-67-8	
m&p-Xylene	<0.71	ug/L	2.0	0.71	1		12/11/13 16:08	179601-23-1	
o-Xylene	<0.32	ug/L	1.0	0.32	1		12/11/13 16:08	95-47-6	
Surrogates									
a,a,a-Trifluorotoluene (S)	98 %		80-120		1		12/11/13 16:08	98-08-8	
6010 MET ICP, Dissolved		Analytical Method: EPA 6010							
Lead, Dissolved	2.9J	ug/L	7.5	1.2	1		12/11/13 19:00	7439-92-1	

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ANALYTICAL RESULTS

Project: 005134.0000 WISDOT-STH 76

Pace Project No.: 4089707

Sample: MW-2 **Lab ID: 4089707004** Collected: 12/06/13 13:45 Received: 12/10/13 09:10 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV		Analytical Method: WI MOD GRO							
Benzene	<0.34	ug/L	1.0	0.34	1		12/11/13 16:36	71-43-2	
Ethylbenzene	55.1	ug/L	1.0	0.34	1		12/11/13 16:36	100-41-4	
Methyl-tert-butyl ether	1.6	ug/L	1.0	0.37	1		12/11/13 16:36	1634-04-4	
Naphthalene	47.3	ug/L	1.0	0.37	1		12/11/13 16:36	91-20-3	
Toluene	<0.34	ug/L	1.0	0.34	1		12/11/13 16:36	108-88-3	
1,2,4-Trimethylbenzene	87.3	ug/L	1.0	0.33	1		12/11/13 16:36	95-63-6	
1,3,5-Trimethylbenzene	53.7	ug/L	1.0	0.36	1		12/11/13 16:36	108-67-8	
m&p-Xylene	72.8	ug/L	2.0	0.71	1		12/11/13 16:36	179601-23-1	
o-Xylene	1.9	ug/L	1.0	0.32	1		12/11/13 16:36	95-47-6	
Surrogates									
a,a,a-Trifluorotoluene (S)	106	%	80-120		1		12/11/13 16:36	98-08-8	
6010 MET ICP, Dissolved		Analytical Method: EPA 6010							
Lead, Dissolved	3.1J	ug/L	7.5	1.2	1		12/11/13 19:02	7439-92-1	

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ANALYTICAL RESULTS

Project: 005134.0000 WISDOT-STH 76

Pace Project No.: 4089707

Sample: MW-3 **Lab ID: 4089707005** Collected: 12/06/13 14:30 Received: 12/10/13 09:10 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV		Analytical Method: WI MOD GRO							
Benzene	1.5	ug/L	1.0	0.34	1		12/12/13 22:48	71-43-2	
Ethylbenzene	<0.34	ug/L	1.0	0.34	1		12/12/13 22:48	100-41-4	
Methyl-tert-butyl ether	<0.37	ug/L	1.0	0.37	1		12/12/13 22:48	1634-04-4	
Naphthalene	1.2	ug/L	1.0	0.37	1		12/12/13 22:48	91-20-3	
Toluene	0.39J	ug/L	1.0	0.34	1		12/12/13 22:48	108-88-3	
1,2,4-Trimethylbenzene	<0.33	ug/L	1.0	0.33	1		12/12/13 22:48	95-63-6	
1,3,5-Trimethylbenzene	<0.36	ug/L	1.0	0.36	1		12/12/13 22:48	108-67-8	
m&p-Xylene	3.6	ug/L	2.0	0.71	1		12/12/13 22:48	179601-23-1	
o-Xylene	<0.32	ug/L	1.0	0.32	1		12/12/13 22:48	95-47-6	
Surrogates									
a,a,a-Trifluorotoluene (S)	103	%	80-120		1		12/12/13 22:48	98-08-8	
6010 MET ICP, Dissolved		Analytical Method: EPA 6010							
Lead, Dissolved	4.0J	ug/L	7.5	1.2	1		12/11/13 19:09	7439-92-1	

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QUALITY CONTROL DATA

Project: 005134.0000 WISDOT-STH 76
Pace Project No.: 4089707

QC Batch: GCV/11602 Analysis Method: WI MOD GRO
QC Batch Method: WI MOD GRO Analysis Description: WIGRO GCV Water
Associated Lab Samples: 4089707001, 4089707002, 4089707003, 4089707004, 4089707005

METHOD BLANK: 909439 Matrix: Water
Associated Lab Samples: 4089707001, 4089707002, 4089707003, 4089707004, 4089707005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2,4-Trimethylbenzene	ug/L	<0.33	1.0	12/11/13 11:50	
1,3,5-Trimethylbenzene	ug/L	<0.36	1.0	12/11/13 11:50	
Benzene	ug/L	<0.34	1.0	12/11/13 11:50	
Ethylbenzene	ug/L	<0.34	1.0	12/11/13 11:50	
m&p-Xylene	ug/L	<0.71	2.0	12/11/13 11:50	
Methyl-tert-butyl ether	ug/L	<0.37	1.0	12/11/13 11:50	
Naphthalene	ug/L	<0.37	1.0	12/11/13 11:50	
o-Xylene	ug/L	<0.32	1.0	12/11/13 11:50	
Toluene	ug/L	<0.34	1.0	12/11/13 11:50	
a,a,a-Trifluorotoluene (S)	%	100	80-120	12/11/13 11:50	

LABORATORY CONTROL SAMPLE & LCSD: 909440

909441

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
1,2,4-Trimethylbenzene	ug/L	20	19.4	19.5	97	98	80-120	1	20	
1,3,5-Trimethylbenzene	ug/L	20	19.1	19.2	95	96	80-120	1	20	
Benzene	ug/L	20	19.3	19.3	96	97	80-120	0	20	
Ethylbenzene	ug/L	20	19.3	19.4	96	97	80-120	1	20	
m&p-Xylene	ug/L	40	37.9	38.1	95	95	80-120	1	20	
Methyl-tert-butyl ether	ug/L	20	19.0	19.0	95	95	80-120	0	20	
Naphthalene	ug/L	20	18.3	18.7	92	93	80-120	2	20	
o-Xylene	ug/L	20	18.7	19.0	94	95	80-120	1	20	
Toluene	ug/L	20	19.1	19.1	95	95	80-120	0	20	
a,a,a-Trifluorotoluene (S)	%				100	100	80-120			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 909510

909511

Parameter	Units	10251565002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,2,4-Trimethylbenzene	ug/L	ND	20	20	17.6	16.9	85	81	26-200	4	20	
1,3,5-Trimethylbenzene	ug/L	ND	20	20	17.8	17.3	89	87	70-160	3	20	
Benzene	ug/L	ND	20	20	20.9	21.5	104	108	49-165	3	20	
Ethylbenzene	ug/L	ND	20	20	21.0	21.5	105	108	59-156	3	20	
m&p-Xylene	ug/L	ND	40	40	39.6	39.8	99	100	49-164	1	20	
Methyl-tert-butyl ether	ug/L	ND	20	20	19.5	19.7	97	99	80-127	1	20	
Naphthalene	ug/L	1.1	20	20	18.4	18.8	86	89	71-130	2	20	
o-Xylene	ug/L	ND	20	20	19.8	19.9	99	100	70-137	1	20	
Toluene	ug/L	ND	20	20	20.3	21.2	101	106	80-135	4	20	
a,a,a-Trifluorotoluene (S)	%						99	100	80-120			

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 005134.0000 WISDOT-STH 76
Pace Project No.: 4089707

QC Batch: ICP/8465 Analysis Method: EPA 6010
QC Batch Method: EPA 6010 Analysis Description: ICP Metals, Trace, Dissolved
Associated Lab Samples: 4089707001, 4089707002, 4089707003, 4089707004, 4089707005

METHOD BLANK: 910120 Matrix: Water
Associated Lab Samples: 4089707001, 4089707002, 4089707003, 4089707004, 4089707005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Lead, Dissolved	ug/L	<1.2	7.5	12/11/13 18:36	

LABORATORY CONTROL SAMPLE: 910121

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lead, Dissolved	ug/L	500	466	93	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 910122 910123

Parameter	Units	910122		910123		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		4089479001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result						
Lead, Dissolved	ug/L	<1.2	500	500	466	468	93	93	75-125	0	20

REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: 005134.0000 WISDOT-STH 76
Pace Project No.: 4089707

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: 005134.0000 WISDOT-STH 76

Pace Project No.: 4089707

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
4089707001	MW-4	WI MOD GRO	GCV/11602		
4089707002	MW-5	WI MOD GRO	GCV/11602		
4089707003	MW-1	WI MOD GRO	GCV/11602		
4089707004	MW-2	WI MOD GRO	GCV/11602		
4089707005	MW-3	WI MOD GRO	GCV/11602		
4089707001	MW-4	EPA 6010	ICP/8465		
4089707002	MW-5	EPA 6010	ICP/8465		
4089707003	MW-1	EPA 6010	ICP/8465		
4089707004	MW-2	EPA 6010	ICP/8465		
4089707005	MW-3	EPA 6010	ICP/8465		

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(Please Print Clearly)



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

Company Name: TRE Env.
 Branch/Location: Madison
 Project Contact: T. O'Connell
 Phone: 603-630-6710
 Project Number: 005134-0000
 Project Name: WISDOT- STA 76
 Project State: WI
 Sampled By (Print): T. O'Connell
 Sampled By (Sign): [Signature]
 PO #:

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
		DATE	TIME	
001	MW-4	12/6/13	1205	GW
002	MW-5		1225	
003	MW-1		1310	
004	MW-2		1345	
005	MW-3		1430	

FILTERED? (YES/NO)	Y/N	Pick Letter	Analyses Requested
	N	B	PDOC/Naph Dis. Lead
	Y	D	

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

CLIENT COMMENTS	LAB COMMENTS (Lab Use Only)	Profile #
	1-250mLp ² , 3-40mL	

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>12/6/13 1700</u>	Received By: <u>TRE Codes</u> Date/Time: <u>12/6/13 1700</u>
Relinquished By: <u>Walton</u> Date/Time: <u>12-10-13 0910</u>	Received By: <u>[Signature]</u> Date/Time: <u>12-10-13 0910</u>
Relinquished By:	Received By:
Relinquished By:	Received By:

PACE Project No. 4089707
 Receipt Temp = 20 °C
 Sample Receipt pH (OK) Adjusted
 Cooler Custody Seal Present / Not Present (OK) Intact / Not Intact

Page 17 of 18

B

Sample Condition Upon Receipt

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

Pace Analytical™
Client Name: TRC

Project # **WO# : 4089707**

Courier: Fed Ex UPS Client Pace Other: Waltco
Tracking #: 462530



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: _____ /Corr: (20) Biological Tissue is Frozen: yes no
Temp Blank Present: yes no

Person examining contents:
Date: 12-10-13
Initials: BF

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

Comments:

Chain of Custody Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.
Chain of Custody Filled Out:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.
Chain of Custody Relinquished:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3.
Sampler Name & Signature on COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4.
Samples Arrived within Hold Time:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	5.
- VOA Samples frozen upon receipt	<input type="checkbox"/> Yes <input type="checkbox"/> No	Date/Time:
Short Hold Time Analysis (<72hr):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	6.
Rush Turn Around Time Requested:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	7.
Sufficient Volume:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	8.
Correct Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.
-Pace Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
-Pace IR Containers Used:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Containers Intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	10.
Filtered volume received for Dissolved tests	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	11.
Sample Labels match COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	12.
-Includes date/time/ID/Analysis Matrix: <u>W</u>		
All containers needing preservation have been checked. (Non-Compliance noted in 13.)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	13.
All containers needing preservation are found to be in compliance with EPA recommendation. (HNO ₃ , H ₂ SO ₄ ≤2; NaOH+ZnAct ≥9, NaOH ≥12) exceptions: VOA, coliform, TOC, TOX, TOH, O&G, WIDROW, Phenolics, OTHER:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	<input checked="" type="checkbox"/> HNO ₃ <input type="checkbox"/> H ₂ SO ₄ <input type="checkbox"/> NaOH <input type="checkbox"/> NaOH + ZnAct
Initial when completed	<u>BF</u>	Lab Std #/ID of preservative
Date/Time:		
Headspace in VOA Vials (>6mm):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	14.
Trip Blank Present:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	15.
Trip Blank Custody Seals Present	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Pace Trip Blank Lot # (if purchased):		

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

Project Manager Review: CH for Tal Date: 12/10/13

March 30, 2015

Wes Braga
TRC
708 Heartland Trail
Suite 3000
Madison, WI 53717

RE: Project: 005134.0000.0000 STEPHENSVILLE
Pace Project No.: 40112084

Dear Wes Braga:

Enclosed are the analytical results for sample(s) received by the laboratory on March 24, 2015. 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,



Tod Noltemeyer
tod.noltemeyer@pacelabs.com
Project Manager

Enclosures



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: 005134.0000.0000 STEPHENSVILLE

Pace Project No.: 40112084

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

North Dakota Certification #: R-150

South Carolina Certification #: 83006001

Texas Certification #: T104704529-14-1

US Dept of Agriculture #: S-76505

Wisconsin Certification #: 405132750

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: 005134.0000.0000 STEPHENSVILLE

Pace Project No.: 40112084

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40112084001	MW-4	Water	03/20/15 14:15	03/24/15 09:45
40112084002	TRIP BLANK	Water	03/20/15 00:00	03/24/15 09:45

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: 005134.0000.0000 STEPHENSVILLE

Pace Project No.: 40112084

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
40112084001	MW-4	WI MOD GRO	PMS	9	PASI-G
		EPA 6010	MMZ	1	PASI-G
40112084002	TRIP BLANK	WI MOD GRO	PMS	9	PASI-G

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: 005134.0000.0000 STEPHENSVILLE

Pace Project No.: 40112084

Method: WI MOD GRO

Description: WIGRO GCV

Client: TRC - MADISON

Date: March 30, 2015

General Information:

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

Hold Time:

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

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:

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: 005134.0000.0000 STEPHENSVILLE

Pace Project No.: 40112084

Method: EPA 6010

Description: 6010 MET ICP, Dissolved

Client: TRC - MADISON

Date: March 30, 2015

General Information:

1 sample was analyzed for EPA 6010. 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.

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: 005134.0000.0000 STEPHENSVILLE

Pace Project No.: 40112084

Sample: MW-4 **Lab ID: 40112084001** Collected: 03/20/15 14:15 Received: 03/24/15 09:45 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV		Analytical Method: WI MOD GRO							
Benzene	<0.40	ug/L	1.0	0.40	1		03/26/15 11:52	71-43-2	
Ethylbenzene	<0.39	ug/L	1.0	0.39	1		03/26/15 11:52	100-41-4	
Methyl-tert-butyl ether	<0.48	ug/L	1.0	0.48	1		03/26/15 11:52	1634-04-4	
Naphthalene	<0.42	ug/L	1.0	0.42	1		03/26/15 11:52	91-20-3	
Toluene	<0.39	ug/L	1.0	0.39	1		03/26/15 11:52	108-88-3	
1,2,4-Trimethylbenzene	<0.42	ug/L	1.0	0.42	1		03/26/15 11:52	95-63-6	
1,3,5-Trimethylbenzene	<0.42	ug/L	1.0	0.42	1		03/26/15 11:52	108-67-8	
Xylene (Total)	<1.2	ug/L	3.0	1.2	1		03/26/15 11:52	1330-20-7	
Surrogates									
a,a,a-Trifluorotoluene (S)	105	%	80-120		1		03/26/15 11:52	98-08-8	
6010 MET ICP, Dissolved		Analytical Method: EPA 6010							
Lead, Dissolved	<3.0	ug/L	7.5	3.0	1		03/26/15 16:02	7439-92-1	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 005134.0000.0000 STEPHENSVILLE

Pace Project No.: 40112084

Sample: TRIP BLANK **Lab ID: 40112084002** Collected: 03/20/15 00:00 Received: 03/24/15 09:45 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV		Analytical Method: WI MOD GRO							
Benzene	<0.40	ug/L	1.0	0.40	1		03/26/15 15:08	71-43-2	
Ethylbenzene	<0.39	ug/L	1.0	0.39	1		03/26/15 15:08	100-41-4	
Methyl-tert-butyl ether	<0.48	ug/L	1.0	0.48	1		03/26/15 15:08	1634-04-4	
Naphthalene	<0.42	ug/L	1.0	0.42	1		03/26/15 15:08	91-20-3	
Toluene	<0.39	ug/L	1.0	0.39	1		03/26/15 15:08	108-88-3	
1,2,4-Trimethylbenzene	<0.42	ug/L	1.0	0.42	1		03/26/15 15:08	95-63-6	
1,3,5-Trimethylbenzene	<0.42	ug/L	1.0	0.42	1		03/26/15 15:08	108-67-8	
Xylene (Total)	<1.2	ug/L	3.0	1.2	1		03/26/15 15:08	1330-20-7	
Surrogates									
a,a,a-Trifluorotoluene (S)	101	%	80-120		1		03/26/15 15:08	98-08-8	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 005134.0000.0000 STEPHENSVILLE
Pace Project No.: 40112084

QC Batch: GCV/14138 Analysis Method: WI MOD GRO
QC Batch Method: WI MOD GRO Analysis Description: WIGRO GCV Water
Associated Lab Samples: 40112084001, 40112084002

METHOD BLANK: 1132133 Matrix: Water
Associated Lab Samples: 40112084001, 40112084002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2,4-Trimethylbenzene	ug/L	<0.42	1.0	03/26/15 09:24	
1,3,5-Trimethylbenzene	ug/L	<0.42	1.0	03/26/15 09:24	
Benzene	ug/L	<0.40	1.0	03/26/15 09:24	
Ethylbenzene	ug/L	<0.39	1.0	03/26/15 09:24	
Methyl-tert-butyl ether	ug/L	<0.48	1.0	03/26/15 09:24	
Naphthalene	ug/L	<0.42	1.0	03/26/15 09:24	
Toluene	ug/L	<0.39	1.0	03/26/15 09:24	
Xylene (Total)	ug/L	<1.2	3.0	03/26/15 09:24	
a,a,a-Trifluorotoluene (S)	%	101	80-120	03/26/15 09:24	

LABORATORY CONTROL SAMPLE & LCSD: 1132134

Parameter	Units	1132135								
		Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
1,2,4-Trimethylbenzene	ug/L	20	21.2	20.6	106	103	80-120	3	20	
1,3,5-Trimethylbenzene	ug/L	20	21.0	20.5	105	102	80-120	3	20	
Benzene	ug/L	20	20.6	20.1	103	100	80-120	3	20	
Ethylbenzene	ug/L	20	20.9	20.3	104	102	80-120	3	20	
Methyl-tert-butyl ether	ug/L	20	21.4	20.6	107	103	80-120	4	20	
Naphthalene	ug/L	20	21.3	20.9	106	105	80-120	2	20	
Toluene	ug/L	20	20.5	19.9	102	100	80-120	3	20	
Xylene (Total)	ug/L	60	61.3	59.9	102	100	80-120	2	20	
a,a,a-Trifluorotoluene (S)	%				102	102	80-120			

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

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 005134.0000.0000 STEPHENSVILLE

Pace Project No.: 40112084

QC Batch: ICP/10326	Analysis Method: EPA 6010
QC Batch Method: EPA 6010	Analysis Description: ICP Metals, Trace, Dissolved
Associated Lab Samples: 40112084001	

METHOD BLANK: 1132431 Matrix: Water
Associated Lab Samples: 40112084001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Lead, Dissolved	ug/L	<3.0	7.5	03/26/15 15:42	

LABORATORY CONTROL SAMPLE: 1132432

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lead, Dissolved	ug/L	500	468	94	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1132433 1132434

Parameter	Units	40111899001		MSD		MS		MSD		% Rec Limits	RPD	Max RPD	Qual
		Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	% Rec	% Rec					
Lead, Dissolved	ug/L	<3.0	500	500	472	474	94	94	75-125	0	20		

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

REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: 005134.0000.0000 STEPHENSVILLE
Pace Project No.: 40112084

DEFINITIONS

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

ND - Not Detected at or above LOD.

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

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

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

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected at or above the adjusted LOD.

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

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

TNI - The NELAC Institute.

LABORATORIES

PASI-G Pace Analytical Services - Green Bay

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 005134.0000.0000 STEPHENSVILLE

Pace Project No.: 40112084

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40112084001	MW-4	WI MOD GRO	GCV/14138		
40112084002	TRIP BLANK	WI MOD GRO	GCV/14138		
40112084001	MW-4	EPA 6010	ICP/10326		

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

(Please Print Clearly)

Company Name: *TRC Madison*
 Branch/Location: *Madison, WI*
 Project Contact: *Wesley Braga*
 Phone: *608-234-7374*
 Project Number: *005134.0000.0000*
 Project Name: *Stephensville*
 Project State: *Wisconsin*
 Sampled By (Print): *Wesley Braga*
 Sampled By (Sign): *Wesley Braga*



UPPER MIDWEST REGION

MN: 612-607-1700 WI: 920-469-2436

40112084

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	N	Y																
Pick Letter	B	D																
Analyses Requested	Pvoc/Naph																	
	Lead																	
	X	X																
	X																	

Quote #:
 Mail To Contact:
 Mail To Company:
 Mail To Address:
 Invoice To Contact:
 Invoice To Company:
 Invoice To Address:
 Invoice To Phone:
 CLIENT COMMENTS:
 LAB COMMENTS (Lab Use Only):
 Profile #:

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

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

Matrix Codes
 A = Air W = Water
 B = 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	N	Y
		DATE	TIME				
007	MW-4	3/20/15	1415	GW		X	X
008	Trip Blank					X	
3-24-15 JJ							

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: <i>Wesley Braga</i>	Date/Time: <i>3/23/15 1600</i>	Received By:	Date/Time:
Relinquished By: <i>Fed Ex</i>	Date/Time: <i>3-24-15 945</i>	Received By: <i>Majumkar</i>	Date/Time: <i>3-24-15 945</i>
Relinquished By:	Date/Time:	Received By:	Date/Time:
Relinquished By:	Date/Time:	Received By:	Date/Time:

PACE Project No. *40112084*
 Receipt Temp = *4.5* °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



Stephensville

Project #:

WO#: 40112084

Client Name: TRC madison

Courier: Fed Ex UPS Client Pace Other: _____

Tracking #: 8073 1906 1016



40112084

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 ^{mm} ~~SR-50~~ Type of Ice: Wet Blue Dry None Samples on ice, cooling process has begun

Cooler Temperature ³² ~~2014~~ / ^{4.5} ~~4.5~~ Biological Tissue is Frozen: yes no

Temp Blank Present: yes no

Person examining contents:
Date: 3-24-15
Initials: mm

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

Comments:

Chain of Custody Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.
Chain of Custody Filled Out:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.
Chain of Custody Relinquished:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3.
Sampler Name & Signature on COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4.
Samples Arrived within Hold Time:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	5.
- VOA Samples frozen upon receipt	<input type="checkbox"/> Yes <input type="checkbox"/> No	Date/Time:
Short Hold Time Analysis (<72hr):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	6.
Rush Turn Around Time Requested:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	7.
Sufficient Volume:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	8.
Correct Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.
-Pace Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
-Pace IR Containers Used:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Containers Intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	10.
Filtered volume received for Dissolved tests	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input checked="" type="checkbox"/> N/A	11.
Sample Labels match COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	12. <i>007 - no time on vial</i> <i>mm 3-24-15</i>
-Includes date/time/ID/Analysis Matrix: <i>(GU)</i>		<i>001 3-24-15 JJ</i>
All containers needing preservation have been checked. (Non-Compliance noted in 13.)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	13. <input checked="" type="checkbox"/> HNO3 <input type="checkbox"/> H2SO4 <input type="checkbox"/> NaOH <input type="checkbox"/> NaOH + ZnAct
All containers needing preservation are found to be in compliance with EPA recommendation. (HNO3/H2SO4 ≤2; NaOH+ZnAct ≥9, NaOH ≥12)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
exceptions: (VOA) coliform, TOC, TOX, TOH, O&G, WIDROW, Phenolics, OTHER:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Initial when completed <i>mm</i> Lab Std #/ID of preservative Date/Time:
Headspace in VOA Vials (>6mm):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	14.
Trip Blank Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	15.
Trip Blank Custody Seals Present	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Pace Trip Blank Lot # (if purchased):		

Client Notification/ Resolution:

If checked, see attached form for additional comments

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review:

UJ for TN

Date: 3-24-15

Attachment C: Documentation of Remedial Action

**Attachment C.2: Investigative Waste Disposal
Documentation**



Not Included: Previously submitted in the *Underground Storage Tank Abandonment and Site Investigation and Remediation Report* by RMT, Inc. on October 21, 2010.

Attachment C: Documentation of Remedial Action

Attachment C.3: RCL Documentation

- Not Included: RCLs were identified during the 2010 Site Investigation, and as previously submitted in the *Underground Storage Tank Abandonment and Site Investigation and Remediation Report* by RMT, Inc. on October 21, 2010. RCLs were not revised following the 2010 investigation.

Attachment C: Documentation of Remedial Action

Attachment C.4: Construction Documentation



Not Included: No systems were constructed.

Attachment C: Documentation of Remedial Action

Attachment C.5: Decommissioning of Remedial Systems



Not Included: No systems were constructed.

Attachment C: Documentation of Remedial Action

Attachment C.6: Photos



Not Included: No structural impediment or cap required.

Attachment C: Documentation of Remedial Action

Attachment C.7: Other

Not Included: There are no other documents.

Attachment D: Maintenance Plan(s)

Attachment D.1: Location Map(s)

Not Included: STH 76 ROW – no cap maintenance plan required.

Attachment D: Maintenance Plan(s)

**Attachment D.2: Brief Descriptions of Residual
Contamination**

- Not Included: STH 76 ROW – no cap maintenance plan required.

Attachment D: Maintenance Plan(s)

Attachment D.3: Description of Maintenance Action(s)

- Not Included: STH 76 ROW – no cap maintenance plan required.

Attachment D: Maintenance Plan(s)

Attachment D.4: Inspection Log

Not Included: STH 76 ROW – no cap maintenance plan required.

Attachment D: Maintenance Plan(s)

Attachment D.5: Contact Information

Not Included: STH 76 ROW – no cap maintenance plan required.

Attachment D: Maintenance Plan(s)

Attachment D.6: Photographs

Not Included: STH 76 ROW – no cap maintenance plan required.

Attachment E: Monitoring Well Information



Not Included: All monitoring wells have been located and will be properly abandoned upon the WDNR granting conditional closure to the site.

Attachment F: Notifications to Owners of Impacted Properties

- Not Included: The STH 76 ROW is the source property (only impacted property), which is owned by the WisDOT. The WisDOT conducted the investigation and clean-up of this Site. No NR 726 Impacted Off-Site Property Owner situations apply. No off-site impacts were identified directly related to this Site. There is side-gradient off-site contamination associated with closed BRRTS case #03-45-558641, and not the WisDOT case, so notification is not necessary.

Attachment G: Source Legal Documents

**Attachment G.1: Deeds – Source Property and
Other Impacted Properties**

- Not Included: Source property is STH 76 ROW, as owned by the WisDOT (the responsible party). There is no deed available. The WisDOT plat map for the site is included in Attachment G.2.

Attachment G: Source Legal Documents

Attachment G.2: Certified Survey Map

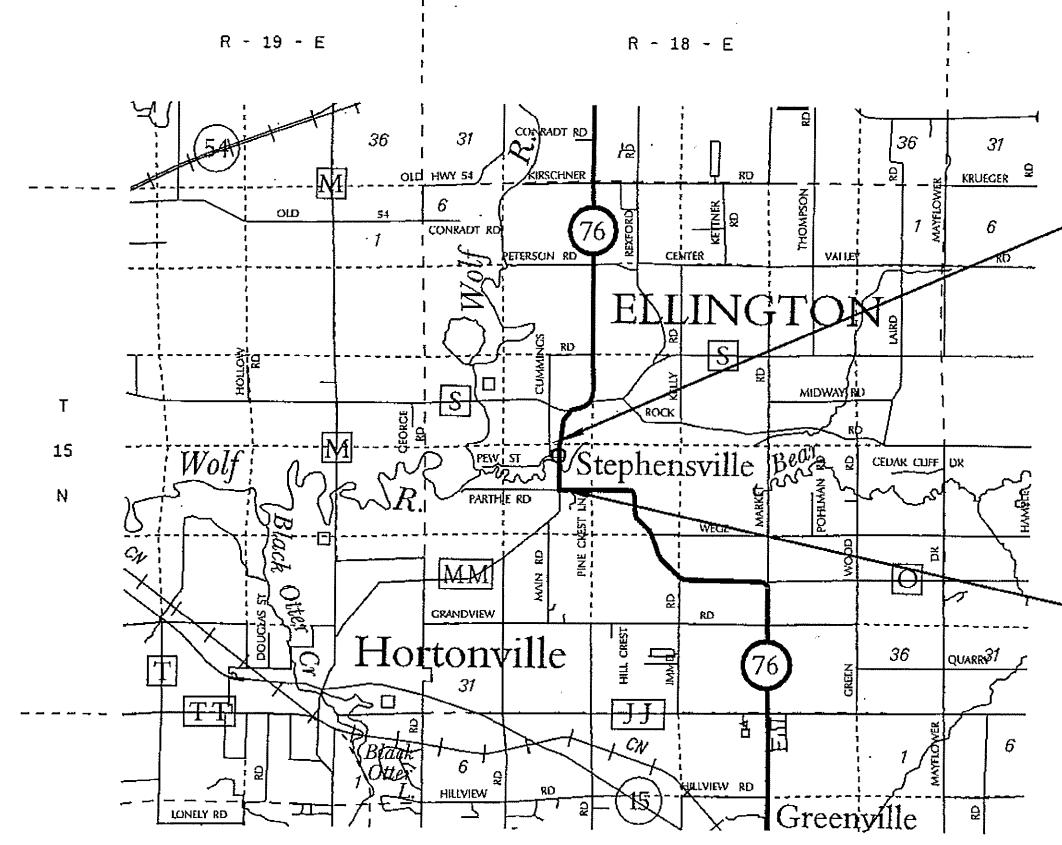
Attached is the WisDOT plat map showing the STH 76 ROW and the site location (the corner of STH 76 at Mason Street).

R/W PROJECT NUMBER 6517-07-22	SHEET NUMBER 4.01	TOTAL SHEETS 4
FEDERAL PROJECT NUMBER		
PLAT OF RIGHT OF WAY REQUIRED FOR GREENVILLE - STEPHENSVILLE STEPHENSVILLE		
STH 76		OUTAGAMIE COUNTY

CONVENTIONAL ABBREVIATIONS AND SYMBOLS

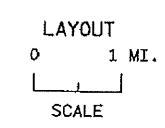
ACCESS POINT	AP	SET R/W MONUMENT	○
ACCESS RIGHTS	AR	1-1/4" OUTSIDE DIA. IRON PIPE	○
ACRES	AC	EXISTING R/W POINT	△
AND OTHERS	ET AL	PROPOSED R/W POINT	△
CENTERLINE	C	BOUNDARY POINT	PRW001
CENTRAL ANGLE OR DELTA	∠	CORPORATE LIMITS	
CHORD BEARING	CH BRG	EXISTING R/W SECTION LINE	=====
CHORD DISTANCE	CH DIS	QUARTER LINE	=====
DEED	D	SIXTEENTH LINE	=====
DOCUMENT	DOC	OLD CENTERLINE	=====
EAST BOUND	EB	PROPOSED OR NEW R/W LINE	=====
ENVELOPE DESCRIPTION	ENV1	EASEMENT LINE	=====
ESTATE	EST	PARCEL NUMBER	①
GAS VALVE	GV	UTILITY PARCEL NUMBER	100
LAND CONTRACT	LC	PROPERTY LINE	PL
LENGTH OF CURVE	L	LOT, TIE AND OTHER MINOR DASHED LINES	-----
MONUMENT	MON	NO ACCESS	◆◆◆◆◆
NORTH BOUND	NB	(By Previous Acquisition or Covenant)	◆◆◆◆◆
OUTLOT	OL	NO ACCESS	
PAGE	PG	(By Acquisition)	
PERMANENT LIMITED EASEMENT	PERM	NO ACCESS	●●●●●
PRIVATE DRIVEWAY	PD	(By Statutory Authority)	●●●●●
PROPERTY LINE	PL	LIMITED EASEMENT (Temporary or Permanent)	=====
QUIT CLAIM DEED	QCD	BURIED FIBER OPTICS CABLE	FO
RADIUS	R	BURIED TELEPHONE CABLE	T
REFERENCE LINE	RL	BURIED GAS LINE	G
REMAINING RIGHT OF WAY	REM R/W	BUILDING TO BE RAZED	■
SPECIAL CROSSING	SC	FEE ACQUISITION	VARIOUS HATCHING
SECTION	S		
SECTION LINE	SL		
FOUND IRON PIPE	IP		
STATION	STA		
TANGENT	TAN		
TEMPORARY INTEREST	TI		
TEMPORARY LIMITED EASEMENT	TLE		
TIE POINT	TP		
VOLUME	VOL		
ADJOINING LANDS WITH SAME OWNER			
PARALLEL TO LINE			

POWER POLE	■	□
TELEPHONE POLE	■	□
SIGN	■	□
TELEPHONE PEDESTAL	■	□



END RELOCATION ORDER
 PROJECT 6517-07-22
 STATION 285+50.00
 740.27 FEET N 80°09'23" E OF THE NORTH QUARTER CORNER OF SECTION 20, TOWN 22 NORTH, RANGE 16 EAST,
 Y = 603359.525
 X = 780985.407

BEGIN RELOCATION ORDER
 PROJECT 6517-07-22
 STATION 254+00.00
 1582.17 FEET N 88°57'36" W OF THE EAST QUARTER CORNER OF SECTION 20, TOWNSHIP 22 NORTH, RANGE 16 EAST,
 Y = 600529.204
 X = 781211.381



TOTAL NET LENGTH OF CENTERLINE = 0.60 MI.

NOTES

RIGHT OF WAY MONUMENTS ARE TYPE II AND ARE PLACED PRIOR TO OR AT THE TIME OF LAND TITLE TRANSFER

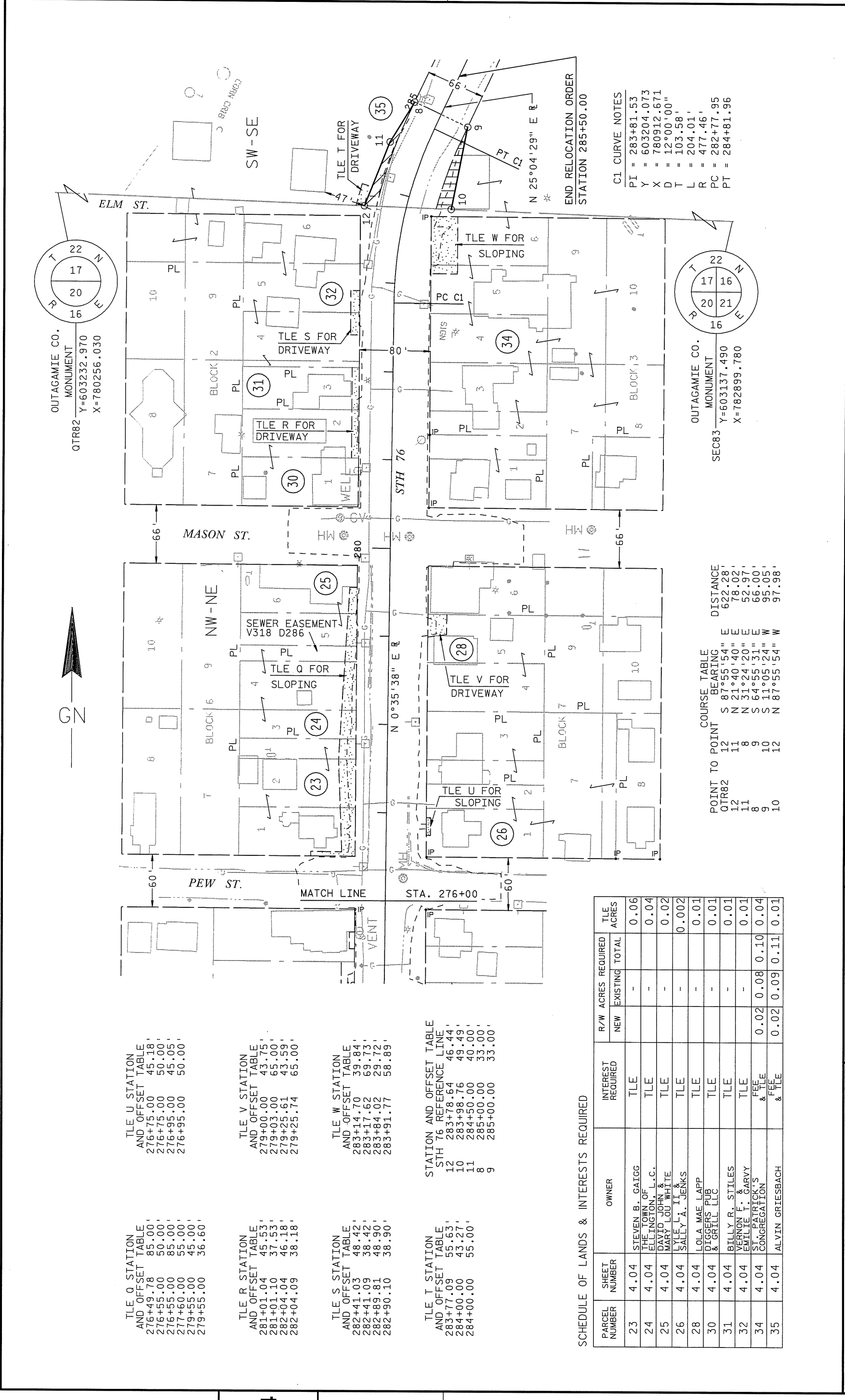
EXISTING R/W ESTABLISHED BY OR UNDER:
 PROJECT 6517-02-21, TOWN OF STEPHENSVILLE PLAT AND WIS. STAT. S. 82.31(2), DETERMINED TO BE 66 FEET.

COORDINATES AND BEARINGS ON THIS PLAT ARE ORIENTED TO THE OUTAGAMIE COORDINATE SYSTEMS.
 ALL PLAT DISTANCES ARE GROUND LENGTH.

RIGHT OF WAY BOUNDARIES ARE DEFINED WITH COURSES OF THE PERIMETER OF THE HIGHWAY LANDS REFERENCED TO THE U.S. PUBLIC LAND SURVEY OR OTHER SURVEYS OF PUBLIC RECORD.

EXISTING RIGHT OF WAY AND PROPERTY LINES SHOWN ON THIS PLAT ARE DRAWN FROM DATA DERIVED FROM MAPS AND DOCUMENTS OF PUBLIC RECORD AND/OR EXISTING OCCUPATION LINES. THIS PLAT MAY NOT BE A TRUE REPRESENTATION OF EXISTING PROPERTY LINES AND SHOULD NOT BE USED AS A SUBSTITUTE FOR AN ACCURATE FIELD SURVEY.

REVISION DATE 4/3/09	STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION
	APPROVED: DATE: 12/18/06 <i>[Signature]</i> FOR DISTRICT DIRECTOR



TLE Q STATION AND OFFSET TABLE

276+49.78	85.00'
276+55.00	50.00'
276+55.00	85.00'
277+60.00	55.00'
279+55.00	45.00'
279+55.00	36.60'

TLE R STATION AND OFFSET TABLE

281+01.04	45.53'
281+01.10	37.53'
282+04.04	46.18'
282+04.09	38.18'

TLE S STATION AND OFFSET TABLE

282+41.03	48.42'
282+41.09	38.42'
282+89.81	48.90'
282+90.10	38.90'

TLE T STATION AND OFFSET TABLE

283+77.09	55.63'
284+00.00	43.27'
284+00.00	55.00'

TLE U STATION AND OFFSET TABLE

276+75.00	45.18'
276+75.00	50.00'
276+95.00	45.05'
276+95.00	50.00'

TLE V STATION AND OFFSET TABLE

279+00.00	43.75'
279+03.00	65.00'
279+25.61	43.59'
279+25.74	65.00'

TLE W STATION AND OFFSET TABLE

283+14.70	39.84'
283+17.62	69.73'
283+84.02	29.72'
283+91.77	58.89'

STATION AND OFFSET TABLE STH 76 REFERENCE LINE

12	283+78.64	46.44'
10	283+98.76	49.49'
11	284+50.00	40.00'
8	285+00.00	33.00'

SCHEDULE OF LANDS & INTERESTS REQUIRED

PARCEL NUMBER	SHEET NUMBER	OWNER	INTEREST REQUIRED	R/W ACRES REQUIRED		TLE ACRES
				NEW	TOTAL	
23	4.04	STEVEN B. GAIGG	TLE	-	-	0.06
24	4.04	THE TOWN OF ELLINGTON, L.C.	TLE	-	-	0.04
25	4.04	DAVID JOHN & MARY LOU WHITE	TLE	-	-	0.02
26	4.04	LYLE L. II & SALLY A. JENKS	TLE	-	-	0.002
28	4.04	LOLA MAE LAPP	TLE	-	-	0.01
30	4.04	DIGGERS PUB & GRILL LLC	TLE	-	-	0.01
31	4.04	BILLY R. STILES	TLE	-	-	0.01
32	4.04	VERNON F. & EMILIE T. GARVY	TLE	-	-	0.01
34	4.04	S. PATRICK'S CONGREGATION	FEE & TLE	0.02	0.08	0.10
35	4.04	ALVIN GRIESBACH	FEE & TLE	0.02	0.09	0.11

COURSE TABLE

POINT TO POINT	BEARING	DISTANCE
12	S 87°55'54" E	622.28'
11	N 21°40'40" E	78.02'
11	N 31°24'20" E	52.97'
8	S 64°55'31" E	66.00'
9	S 11°05'24" W	95.05'
10	N 87°55'54" W	97.98'

C1 CURVE NOTES

PI	= 283+81.53
Y	= 603204.073
X	= 780912.671
D	= 12°00'00"
T	= 103.58'
L	= 204.01'
R	= 477.46'
PC	= 282+77.95
PT	= 284+81.96

REVISION DATE 4/3/09	DATE 12-18-06	HWY: STH 76	STATE R/W PROJECT NUMBER 6517-07-22	PLAT SHEET NO: 4.04
	GRID FACTOR	COUNTY: OUTAGAMIE	CONSTRUCTION PROJECT NUMBER 6517-07-	PS&E SHEET NO: E

WDNR Case Closure – GIS Registry Form 4400-202

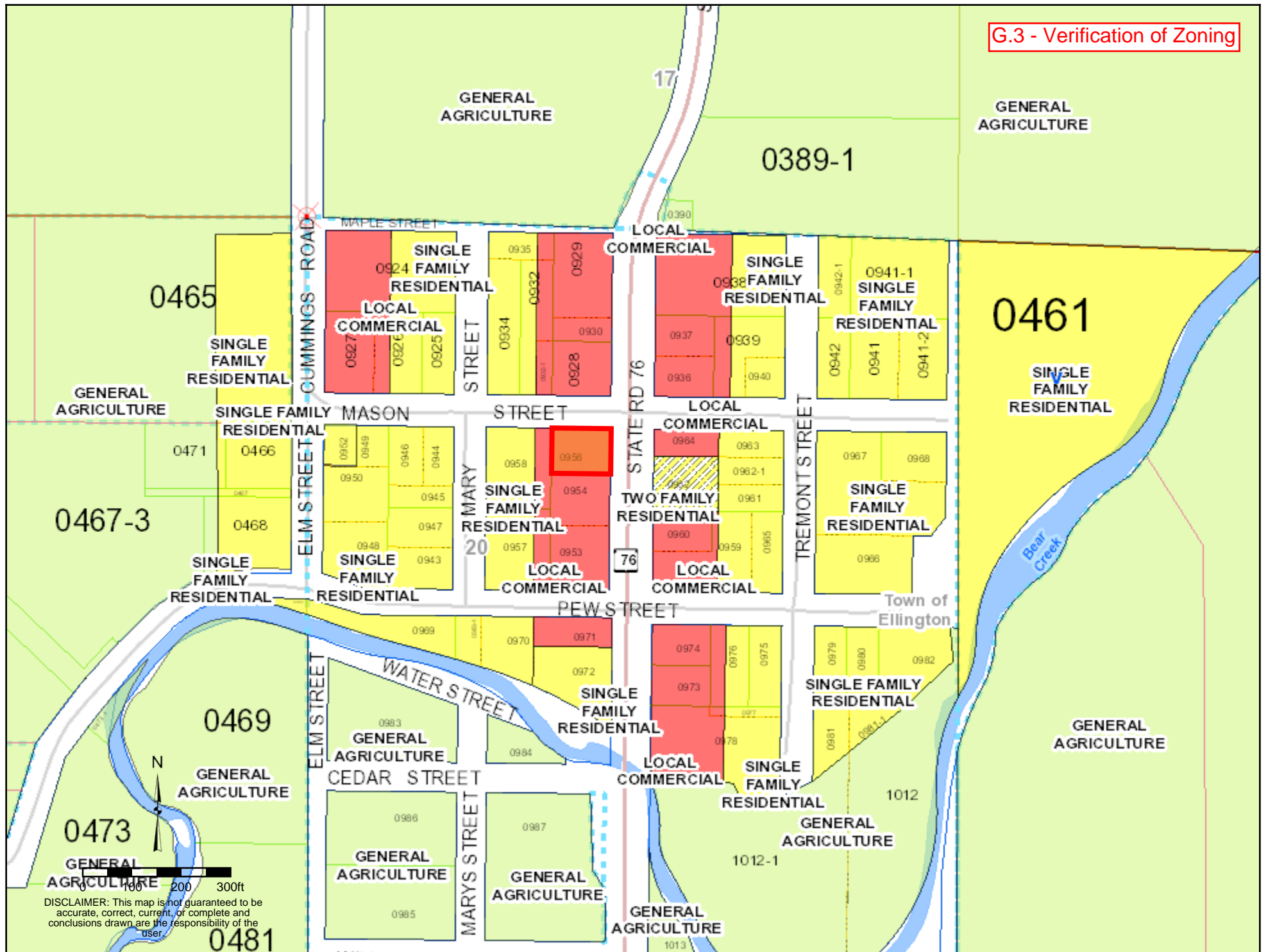
BRRTS #03-45-555892

BRRTS Activity Name: **White Property – WI DOT**

Attachment G: Source Legal Documents

Attachment G.3: Verification of Zoning

G.3 - Verification of Zoning



DISCLAIMER: This map is not guaranteed to be accurate, correct, current, or complete and conclusions drawn are the responsibility of the user.

WDNR Case Closure – GIS Registry Form 4400-202

BRRTS #03-45-555892

BRRTS Activity Name: **White Property – WI DOT**


Attachment G: Source Legal Documents

Attachment G.4: Signed Statement

Certification Statement

As the designated representative for the Wisconsin Department of Transportation (WisDOT), and at the request of TRC Environmental Corporation, I am submitting this notice as written certification of the legal descriptions set forth in the Wisconsin Department of Natural Resources Case Closure-GIS Registry (Form 4400-202 and attachments).

I certify that, to the best of my knowledge, the legal descriptions provided in Case Closure-GIS Registry (Form 4400-202 and attachments) submitted by TRC Environmental Corporation, are complete and accurate with respect to the property impacted by the soil contamination encountered on N3671 STH 76, Stephenville (Ellington), Wisconsin (WDNR BRRTS# 03-45-555892).

x 

Sharlene TeBeest

12/19/14

Date

Wisconsin Department of Transportation
Responsible Party Representative