



ENVIRONMENTAL CONSULTANTS

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Report: **Weekly Progress Report**

Project: **Former Two Rivers MGP Site  
Removal Action Construction  
Two Rivers, Wisconsin**

Date: September 26, 2014

Prepared By: Natural Resource Technology, Inc.  
Mark D. Walter, PE  
Kenneth R. Mika, PE  
Andrea Salus, EIT

Submitted To: Integrys Business Support, LLC  
Naren M. Prasad, PE  
Stacy A. Brault

Activity Period: September 8 through September 14, 2014

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Natural Resource Technology, Inc. Personnel on Site

- Mark Walter, **Field Engineer**
- Andrea Salus, **Field Engineer**
- Kenneth Mika, **Project Manager**
- Thomas deGroot, **Environmental Scientist**
- Steve Wiskes, **Health and Safety Officer**

Integrys/Wisconsin Public Service Corporation Personnel on Site

- None

Geo-Solutions, Inc. Personnel on Site

- Keith Adamson
- Aaron Handel
- Eric Shannon
- Jason Greggs
- Rob Kautchick
- Dylan Ice
- Bob Lager
- Randall Tilly
- John Scott
- Darin Payne
- Pete Moretuzzo
- Lee Green

### Subcontractors on Site

- Custom Fence, Inc., **Fencing Contractor**
- Luisier Plumbing, **Plumbing Contractor**
- Robert E. Lee & Associates, Inc. (REL), **Surveyor**

### Others

- None

### Visitors

- Brad Benning, **U.S. EPA**

This report summarizes field activities performed by NRT, GSI, and GSI's subcontractors, on behalf of IBS at the former Two Rivers MGP Site Time Critical Removal Action:

### Site Activities

#### Removal Action Totals:

- Direct Disposal (Soil and Debris) through 9/14/14: 0 Tons
- In-Situ Solidification/Stabilization (ISS) through 9/14/14: 648 Cubic Yards

#### Site Perimeter Air Monitoring:

- Real-time site perimeter air monitoring for TVOCs and PM<sub>10</sub> was conducted 24 hours per day, all seven days of the week. The locations of the perimeter air monitoring stations are shown on Figure 1.
- A total of 12 SUMMA canister samples were collected, including two samples at each of the five air monitoring station locations and two duplicate samples. SUMMA canister samples were analyzed for BTEX compounds and naphthalene. A summary of the analytical results is presented in Table 1.
- A total of 6 PUF samples were collected, including one sample at each of the five air monitoring station locations and one duplicate sample. PUF samples were analyzed for PAH compounds. A summary of the analytical results is presented in Table 1.

### NRT

- Participated in daily safety meetings to evaluate potential safety concerns for the day's planned construction activities.
- Managed Custom Fence Inc.'s installation of a visual barrier along the eastern, southern, and select northern portions of the site perimeter fence line.
- Oversaw GSI's mobilization efforts throughout the week.
- Oversaw GSI's ISS Shakedown test on Monday (9/8) and GSI's Pilot Test on Tuesday (9/9) and Wednesday (9/10).
- Collected and prepared 12 ISS Construction Quality Assurance (CQA) samples (PT-1 – PT-12) from ISS Pilot Test columns for unconfined compressive strength (UCS; ASTM D1633) and hydraulic conductivity (ASTM D5084) laboratory testing by Timely Engineering Soil Tests (T.E.S.T.). Test results to be compared to ISS performance goals established in the Removal Action Work Plan (RAWP) Addendum 1 Construction Quality Assurance Project Plan (CQAPP).
- Oversaw GSI's weekly erosion control inspection on Thursday (9/11).

- Oversaw GSI's demolition and removal of historic structures located at or below grade.
- Performed perimeter air monitoring and sampling.
- Monitored site conditions for traffic flow, fugitive dust, odors, and general overall safety.

Geo-Solutions Inc.

- Continued mobilization of equipment in preparation of ISS construction activities.
- Performed ISS Shakedown test on Monday (9/8) and ISS Pilot Test on Tuesday (9/9) and Wednesday (9/10).
- Performed weekly erosion control inspection on Thursday (9/11).
- Began demolition and removal of historic structures located at or below grade.
- Began moving large sandbags (super sacks) near the edge of the West Twin River.
- Established site exclusion zones and decontamination areas.
- Conducted periodic worker health and safety air monitoring in the work (exclusion) zone.

Changes to Scope of Work

- None

Open/Outstanding Items

- None

Work planned for the week of September 15 through September 21, 2014

- Continue demolition and removal of historic structures located at or below grade.
- Excavate peat material in the Excavation Area.
- Off-site transportation and disposal of peat materials.
- Install silt curtain in the West Twin River.
- Install asphalt pad for decontamination and water treatment.
- Perform perimeter air monitoring and sampling.

A Weekly Progress Report will be issued throughout the duration of field activities for this Time Critical Removal Action. A written report summarizing the results of the Removal Action will be provided following completion of all field activities.

Please contact us if you have any questions.

Sincerely,

NATURAL RESOURCE TECHNOLOGY, INC.



Kenneth R. Mika, PE  
Environmental Engineer



Attachments:

- Field Photos
- Figure 1: Air Monitoring Station Locations
- Table 1: Weekly Air Data Summary

[P:\1500\1569\Construction\Field Reports\Weekly Reports\1569 NRT Two Rivers MGP Weekly Report 09-08-14 To 09-14-14.Docx]



**Field Photos:**



**Photo 1:** Drilling of ISS shakedown test column.

**Direction:** Facing southwest

**Photo Date:** 9/8/2014

**Photo Taken By:** MDW



**Photo 2:** Drilling of ISS pilot test column.

**Direction:** Facing east

**Photo Date:** 9/9/2014

**Photo Taken By:** KRM



**Photo 3:** Demolition and removal of historic structure.

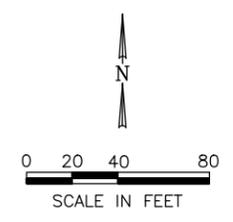
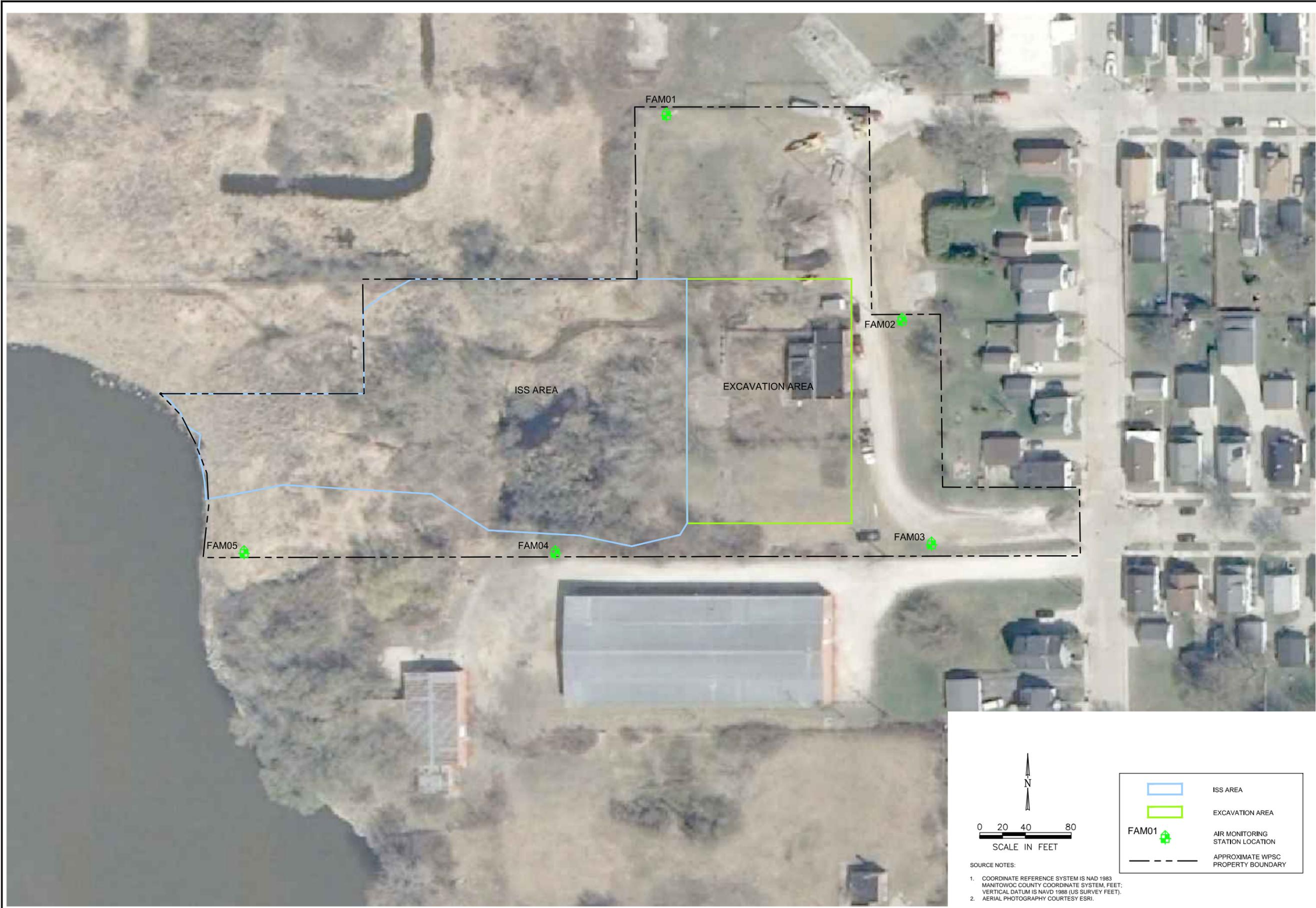
**Direction:** Facing southeast

**Photo Date:** 9/12/2014

**Photo Taken By:** MDW



Sep. 24, 2014 8:34am PLOTTED By: rhopkins\_SAVED By: rhopkins  
 I:\ACADATA\Projects\15\1569\_2riv\1569\_2riv\14-7\1569-147-B01.dwg Layout1  
 WPCS: Y:\GIS\Projects\15\1569\CAD\15\_CAD\Manitowoc\_Co\_Imagery\_2010\_v2.tif  
 WREFS:



	ISS AREA
	EXCAVATION AREA
	AIR MONITORING STATION LOCATION
	APPROXIMATE WPCS PROPERTY BOUNDARY

SOURCE NOTES:  
 1. COORDINATE REFERENCE SYSTEM IS NAD 1983 MANITOWOC COUNTY COORDINATE SYSTEM, FEET; VERTICAL DATUM IS NAVD 1988 (US SURVEY FEET).  
 2. AERIAL PHOTOGRAPHY COURTESY ESRI.

DRAWN BY:	RLH	DATE:	09/24/14
CHECKED BY:	MDW	DATE:	09/24/14
APPROVED BY:	KRM	DATE:	09/24/14
DRAWING NO:		15691-147-B01	
REFERENCE:		.	

# AIR MONITORING STATION LOCATIONS

FORMER TWO RIVERS MANUFACTURED GAS PLANT  
 WISCONSIN PUBLIC SERVICE CORPORATION  
 TWO RIVERS, WISCONSIN



PROJECT NO.  
 1569.1/14.7

FIGURE NO.  
 1

**Table 1 - Analytical Air Summary**

**Weekly Progress Report  
Former Two Rivers MGP Site  
Two Rivers, WI**

Sample Location	Sample Date	Sample Type	Benzo(a)anthracene (ug/m3)	Benzo(a)pyrene (ug/m3)	Benzo(b)fluoranthene (ug/m3)	Benzo(k)fluoranthene (ug/m3)	Chrysene (ug/m3)	Dibenz(a,h)anthracene (ug/m3)	Indeno(1,2,3-cd)pyrene (ug/m3)
<b>Site-Specific Air SL (1E-04)</b>			<b>160</b>	<b>16</b>	<b>160</b>	<b>160</b>	<b>1600</b>	<b>15</b>	<b>160</b>
<b>Site-Specific Air SL (1E-05)</b>			<b>16</b>	<b>1.6</b>	<b>16</b>	<b>16</b>	<b>160</b>	<b>1.5</b>	<b>16</b>
<b>Site-Specific Air SL (1E-06)</b>			<b>1.6</b>	<b>0.16</b>	<b>1.6</b>	<b>1.6</b>	<b>16</b>	<b>0.15</b>	<b>1.6</b>
FAM01	9/9/2014	PUF	< 0.0019	< 0.0024	< 0.0013	< 0.0029	< 0.0026	< 0.0019	< 0.0016
FAM02	9/9/2014	PUF	< 0.0018	< 0.0022	< 0.0012	< 0.0027	< 0.0025	< 0.0018	< 0.0015
FAM03	9/9/2014	PUF	< 0.0017	< 0.0021	< 0.0011	< 0.0026	< 0.0023	< 0.0017	< 0.0014
FAM04	9/9/2014	PUF	< 0.0018	< 0.0023	< 0.0012	< 0.0028	< 0.0025	< 0.0019	< 0.0015
FAM05	9/9/2014	PUF	< 0.0018	< 0.0023	< 0.0012	< 0.0028	< 0.0025	< 0.0019	< 0.0015
Field Blank	9/9/2014	PUF	< 0.0018	< 0.0023	< 0.0012	< 0.0028	< 0.0025	< 0.0019	< 0.0015
<b>Average 9/9/14</b>			<b>0.0018</b>	<b>0.0023</b>	<b>0.0012</b>	<b>0.0028</b>	<b>0.0025</b>	<b>0.0018</b>	<b>0.0015</b>

Sample Location	Sample Date	Sample Type	Benzene (ug/m3)	Ethylbenzene (ug/m3)	Naphthalene (ug/m3)	Toluene (ug/m3)	Xylene (total) (ug/m3)
<b>Site-Specific Air SL (1E-04)</b>			<b>110</b>	<b>7100</b>	<b>42</b>	<b>7000</b>	<b>560</b>
<b>Site-Specific Air SL (1E-05)</b>			<b>110</b>	<b>710</b>	<b>42</b>	<b>7000</b>	<b>560</b>
<b>Site-Specific Air SL (1E-06)</b>			<b>23</b>	<b>71</b>	<b>5.2</b>	<b>7000</b>	<b>560</b>
FAM01	9/9/2014	SUMMA	0.44	0.22	< 1	0.8	0.65
FAM02	9/9/2014	SUMMA	0.35	0.17	< 1	0.7	< 0.15
FAM03	9/9/2014	SUMMA	0.35	0.14	< 1	0.7	< 0.15
FAM04	9/9/2014	SUMMA	0.32	< 0.06	< 1	0.67	< 0.15
FAM05	9/9/2014	SUMMA	0.41	0.86	< 1	1.4	3.62
Field Blank	9/9/2014	SUMMA	< 0.06	< 0.06	< 1.04	< 0.06	< 0.15
FAM01	9/12/2014	SUMMA	0.76	< 0.06	< 1.1	0.2	< 0.16
FAM02	9/12/2014	SUMMA	0.2	< 0.06	< 1.1	0.3	< 0.16
FAM03	9/12/2014	SUMMA	0.55	1.08	< 1.1	0.5	1.64
FAM04	9/12/2014	SUMMA	0.27	0.2	< 1.1	0.39	< 0.16
FAM05	9/12/2014	SUMMA	0.2	0.51	< 1.1	3.5	1.08
<b>Average 9/9/14 - 9/12/14</b>			<b>0.385</b>	<b>0.336</b>	<b>1.05</b>	<b>0.916</b>	<b>0.792</b>

Notes:

- 1) Site-Specific Air Sample Levels (SL) were developed by Exponent and were provided in the *Site-Specific Perimeter Air Monitoring Acceptable Air Concentrations Technical Memorandum* June 4, 2014. SLs are based on acceptable air concentrations for target cancer risks.
- 2) Sample date listed is the start date of the 24-hour sampling period.
- 3)  Parameter level was below the method detection limit.
- 4) Averages do not include field blanks and duplicates.
- 5) Results below the method detection limit are average with the method detection limit level.
- 6) ug/m3 - micrograms per cubic meter adjusted to standard temperature and pressure.