



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.
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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

Natural Resource Technology, Inc. Personnel on Site

- Mark Walter, **Field Engineer**
- Andrea Salus, **Field Engineer**
- Kenneth Mika, **Project Manager**
- Thomas deGrood, **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 PM₁₀ 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



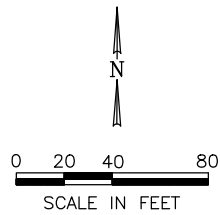
Photo 3: Demolition and removal of historic structure.

Direction: Facing southeast

Photo Date: 9/12/2014




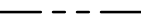
Photo Taken By: MDW

Sep 24, 2014 8:34am PLOTTED BY: rhopkins SAVED BY: rhopkins
I:\ACADdata\Projects\15\1569 2riv\1569-147-B01.dwg Layout1
VPES: I:\GIS\Projects\15\1569 CAD\1569 Manitowoc Co_Imagery_2010_v2.tif;
VPES:



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.

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



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

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: .	

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)
Site-Specific Air SL (1E-04)			160	16	160	160	1600	15	160
Site-Specific Air SL (1E-05)			16	1.6	16	16	160	1.5	16
Site-Specific Air SL (1E-06)			1.6	0.16	1.6	1.6	16	0.15	1.6
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
Average 9/9/14			0.0018	0.0023	0.0012	0.0028	0.0025	0.0018	0.0015

Sample Location	Sample Date	Sample Type	Benzene (ug/m3)	Ethylbenzene (ug/m3)	Naphthalene (ug/m3)	Toluene (ug/m3)	Xylene (total) (ug/m3)
Site-Specific Air SL (1E-04)			110	7100	42	7000	560
Site-Specific Air SL (1E-05)			110	710	42	7000	560
Site-Specific Air SL (1E-06)			23	71	5.2	7000	560
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
Average 9/9/14 - 9/12/14			0.385	0.336	1.05	0.916	0.792

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.

