



ENVIRONMENTAL CONSULTANTS

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Report: **Weekly Progress Report**

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

Date: November 24, 2014

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

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

Activity Period: November 10 through November 16, 2014

Natural Resource Technology, Inc. Personnel on Site

- Mark Walter, **Field Engineer**
- Andrea Salus, **Field Engineer**
- Dan Vachon, **Field Technician**
- Kenneth Mika, **Project Manager**

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
- Bob Lager
- John Scott
- Jesse Frederick
- Cliff Grass
- Tom Cook

U.S. EPA Personnel on Site

- Christopher Redfearn, OTIE

Subcontractors on Site

- Edler Brothers Trucking, Inc., **Trucking Contractor**
- Fred Radandt & Sons, Inc., **Sand and Stone Supplier**
- Luisier Plumbing, Inc., **Water Line Winterization**

Others

- Hammer & Steel, Inc., **Delmag RH-28 Maintenance**

Visitors

- None

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

Site Activities

Removal Action Totals:

- Soil Direct Disposal through 11/16/14: 10,269.83 Tons
- Debris Direct Disposal (Concrete and Wood) through 11/16/14: 1,038.95 Tons
- Asbestos-Wrapped Pipe Direct Disposal through 11/16/14: 12.79 Tons
- Total Direct Disposal through 11/16/14: 11,321.57 Tons
- In-Situ Solidification/Stabilization (ISS) through 11/16/14: 29,398.75 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, one field blank sample, and one duplicate sample. SUMMA canister samples were analyzed for BTEX compounds and naphthalene. A summary of the analytical results is presented in Table 1.
- A total of six PUF samples were collected, including one sample at each of the five air monitoring station locations and one field blank 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.
- Oversaw GSI's excavation of peat material in the ISS Area.
- Oversaw GSI's removal of wooden pilings in the ISS Area.
- Oversaw GSI's preparation of an ISS work pad.
- Oversaw GSI's ISS drilling.
- Collected and prepared four ISS Construction Quality Assurance (CQA) samples (ISS-BU27-B, ISS-BW23-M, ISS-BU19-T, and ISS-BY15-B).

- Received and reviewed ISS CQA sample test results for UCS and hydraulic conductivity. Results are compared to ISS performance goals established in the Removal Action Work Plan (RAWP) Addendum 1 Construction Quality Assurance Project Plan (CQAPP).
- Oversaw GSI's management of ponded water.
- Oversaw GSI's weekly erosion control inspection on Wednesday (11/12).
- Oversaw GSI's excavation of soils in the northern portion of the Excavation Area.
- Oversaw GSI's placement of filter fabric and stone backfill in the northern portion of the Excavation Area.
- Issued truck manifests for disposal of peat material.
- Performed perimeter air monitoring and sampling.
- Monitored site conditions for traffic flow, fugitive dust, odors, and general overall safety.

Geo-Solutions Inc.

- Continued excavation of peat material in the ISS Area.
- Continued removal of wooden pilings in the ISS Area.
- Continued constructing an ISS work pad.
- Replaced the rotary head on the Delmag RH-28.
- Continued full-scale ISS drilling.
- Managed ponded water by pumping to a frac tank. Water pumped to the frac tank is intended to be used for ISS grout production.
- Continued excavation of soils in the northern portion of the Excavation Area.
- Began placing filter fabric and stone backfill in the northern portion of the Excavation Area.
- Continued off-site trucking and disposal of peat material.
- Performed weekly erosion control inspection on Wednesday (11/12).
- Implemented fugitive emission controls, including covering of inactive stockpiles, operation of an odor control perimeter misting system, and sequencing of work to minimize material handling.
- 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 November 17 through November 23, 2014

- Continue to excavate peat material in the Excavation Area and ISS Area.
- Continue placing filter fabric and stone in the Excavation Area.
- Continue off-site trucking and disposal of peat material.
- Continue soil confirmation sampling at the limits of the Excavation Area.
- Continue construction of an ISS work pad.
- Continue full-scale ISS.
- Continue ISS CQA sampling.
- Continue perimeter air monitoring and sampling.



- Continue implementation of fugitive emission controls.

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.

A handwritten signature in black ink that reads "Kenneth R. Mika".

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 11-10-14 To 11-16-14.Docx]



Field Photos:



Photo 1: Placing filter fabric and stone backfill in the northern portion of the Excavation Area.

Direction: Facing east

Photo Date: 11/13/2014

Photo Taken By: MDW



Photo 2: Placing stone backfill in the northern portion of the Excavation Area and ISS drilling.

Direction: Facing southwest

Photo Date: 11/13/2014

Photo Taken By: MDW



Photo 3: Placing stone backfill in the northern portion of the Excavation Area.

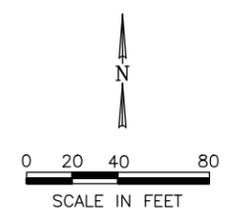
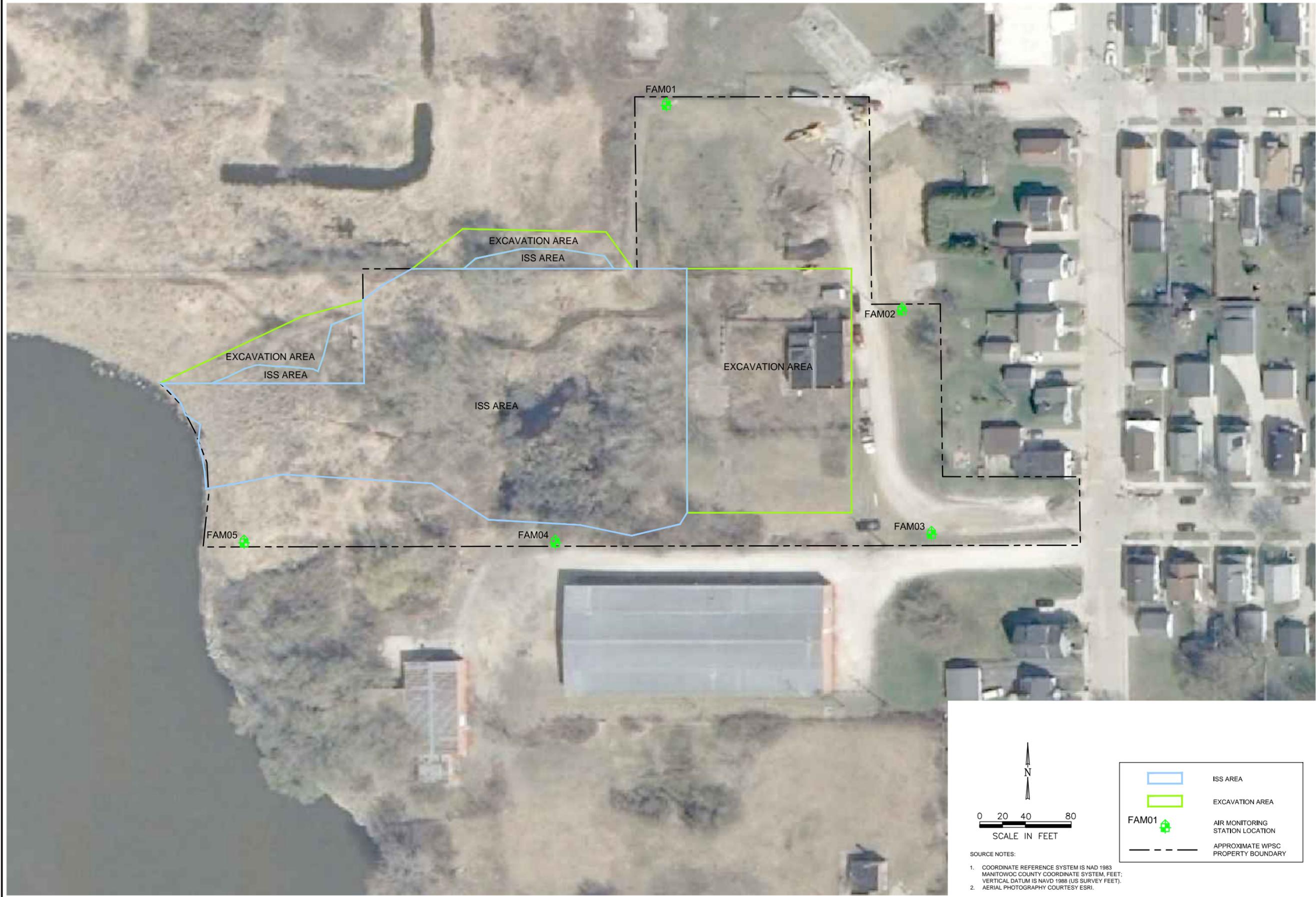
Direction: Facing northeast

Photo Date: 11/14/2014

Photo Taken By: MDW



Oct 30, 2014 1:33pm PLOTTED BY: rhopkins SAVED BY: rhopkins
 I:\ACADATA\Projects\15\1569 2riv\1569_2riv\14-8\1569-148-B01.dwg Layout1
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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 WSPC PROPERTY BOUNDARY

AIR MONITORING STATION LOCATIONS

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



PROJECT NO.
 1569.1/14.8

FIGURE NO.
 1

DRAWN BY: RLH	DATE: 10/30/14
CHECKED BY: KRM	DATE: 10/30/14
APPROVED BY: KRM	DATE: XXX
DRAWING NO: 15691-148-B01	
DRAFT	

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	11/12/2014	PUF	< 0.0009	< 0.0012	< 0.0013	< 0.0013	< 0.0007	< 0.0015	< 0.0015
FAM02	11/12/2014	PUF	< 0.0009	< 0.0012	< 0.0013	< 0.0013	< 0.0007	< 0.0015	< 0.0015
FAM03	11/12/2014	PUF	< 0.0009	< 0.0012	< 0.0013	< 0.0014	< 0.0007	< 0.0015	< 0.0016
FAM04	11/12/2014	PUF	< 0.0009	< 0.0012	< 0.0013	< 0.0014	< 0.0007	< 0.0015	< 0.0016
FAM05	11/12/2014	PUF	< 0.0009	< 0.0012	< 0.0013	< 0.0014	< 0.0007	< 0.0015	< 0.0016
Field Blank	11/12/2014	PUF	< 0.0009	< 0.0012	< 0.0013	< 0.0014	< 0.0007	< 0.0015	< 0.0016
Average 9/9/14 - 11/12/14			0.0016	0.0021	0.0012	0.0025	0.0022	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	11/12/2014	SUMMA	< 0.1	< 0.09	< 0.2	< 0.1	< 0.19
FAM02	11/12/2014	SUMMA	0.55	0.44	1.3	0.5	0.56
FAM03	11/12/2014	SUMMA	1.49	3.11	4	1.5	3.81
FAM04	11/12/2014	SUMMA	0.52	0.14	1.2	0.32	0.36
FAM05	11/12/2014	SUMMA	0.55	0.14	< 0.2	0.4	0.34
Field Blank	11/12/2014	SUMMA	< 0.1	< 0.09	< 0.17	< 0.1	< 0.19
FAM01	11/13/2014	SUMMA	0.31	< 0.09	< 0.2	0.2	< 0.19
FAM02	11/13/2014	SUMMA	0.45	0.3	0.6	0.4	0.42
FAM03	11/13/2014	SUMMA	1.42	3.59	5.5	1.9	3.96
FAM04	11/13/2014	SUMMA	0.38	0.27	< 0.2	0.3	< 0.19
FAM05	11/13/2014	SUMMA	0.31	< 0.09	< 0.2	0.2	< 0.19
FAM01 (Dup)	11/13/2014	SUMMA	0.33	< 0.09	< 0.17	0.94	< 0.19
Average 9/9/14 - 11/13/14			2.49	2.97	2.85	2.77	3.81

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) [Redacted] 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.