



ENVIRONMENTAL CONSULTANTS

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Report: **Weekly Progress Report**

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

Date: February 12, 2015

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: January 19 through January 25, 2015

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Natural Resource Technology, Inc. Personnel on Site

- Mark Walter, **Field Engineer**
- Andrea Salus, **Field Engineer**
- Dan Vachon, **Remediation Coordinator**

Integrys/Wisconsin Public Service Corporation Personnel on Site

- None

Geo-Solutions, Inc. Personnel on Site

- Keith Adamson
- Eric Shannon
- Jason Greggs
- Rob Kautchick
- Bob Lager
- John Scott
- Jesse Frederick
- Cliff Grass
- Tom Cook
- Stanley Smith
- Aaron Handel



#### U.S. EPA Personnel on Site

- Fernando Monterey, **OTIE**

#### Subcontractors on Site

- Edler Brothers Trucking, Inc., **Trucking contractor for peat and debris hauling**
- Fred Radandt Sons, Inc., **Deliver stone and general fill to site**

#### Others

- Subsurface Exploration Services, LLC, **Monitoring well abandonment**
- Backus Electric & Automation, LLC, **Power supply maintenance**

#### Visitors

- Tom Wentland, **WDNR**

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

#### Site Activities

##### Removal Action Totals:

- Soil Direct Disposal through 1/25/15: 22,689.22 Tons
- Debris Direct Disposal (Concrete and Wood) through 1/25/15: 1,110.70 Tons
- Asbestos-Wrapped Pipe Direct Disposal through 1/25/15: 12.79 Tons
- Total Direct Disposal through 1/25/15: 23,812.71 Tons
- In-Situ Solidification/Stabilization (ISS) through 1/25/15: 63,203.68 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 11 SUMMA canister samples were collected, including two samples at each of the five air monitoring station locations and one field blank 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 preparation of an ISS work pad.
- Oversaw GSI's ISS drilling.
- Collected and prepared five ISS Construction Quality Assurance (CQA) samples (ISS-AH18-M, ISS-AP16-T, ISS-AX18-B, ISS-BD16-M, and ISS-BJ20-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 soil excavation in the Excavation Area.
- Oversaw GSI's construction of a new peat load out road in the northern portion of the Excavation Area.
- Oversaw GSI's weekly erosion control inspection on Tuesday (1/20).
- Oversaw Subsurface Exploration Services, LLC's abandonment of monitoring well MW612 on the Manitowoc County property to the south of the project site, and monitoring well MW613 on the U.S. Oil property within the project limits.
- 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 constructing an ISS work pad.
- Continued full-scale ISS drilling.
- Continued excavating soils in the Excavation Area.
- Constructed a new peat load out road by placing filter fabric on top of stone with verified final design elevations in the northern portion of the Excavation Area, importing and grading general fill on top of the filter fabric, placing poly sheeting on top of the general fill, and placing swamp mats on top of the poly sheeting.
- Managed ponded water by pumping to frac tanks. Water pumped to the frac tanks is intended to be used for ISS grout production.
- Continued off-site trucking and disposal of peat material.
- Performed weekly erosion control inspection on Tuesday (1/20).
- Implemented fugitive emission controls, including 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 January 26 through February 1, 2015

- Continue to excavate peat material in the ISS Area.
- Continue off-site trucking and disposal of peat material.
- Continue construction of an ISS work pad.
- Continue full-scale ISS.
- Continue excavating soils in the Excavation Area.
- Continue placing filter fabric and stone backfill in the Excavation Area.



- 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.



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 1-19-15 To 1-25-15.Docx]



### Field Photos:



**Photo 1:** Excavating in the Excavation Area and ISS drilling.

**Direction:** Facing west

**Photo Date:** 1/20/2015

**Photo Taken By:** MDW



**Photo 2:** Aerial view of ISS drilling.

**Direction:** Facing northeast.

**Photo Date:** 1/21/2015

**Photo Taken By:** ANS



**Photo 3:** Peat load out using the newly constructed road in the northern portion of the Excavation Area.

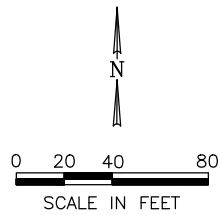
**Direction:** Facing west

**Photo Date:** 1/21/2015

**Photo Taken By:** MDW







Oct 30, 2014 1:33pm PLOTTED BY: rhopkins SAVED BY: rhopkins  
I:\AcadData\Projects\15\1569 2riv\1569-148-B01.dwg Layout1  
VPES: I:\GIS\Projects\15\1569 CAD\16\_CAD\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

DRAWN BY:	RLH	DATE:	10/30/14
CHECKED BY:	KRM	DATE:	10/30/14
APPROVED BY:	KRM	DATE:	12/12/14
DRAWING NO:		15691-148-B01	
REFERENCE:			

PROJECT NO.

1569.1/14.8

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)
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	1/20/2015	PUF	< 0.0009	< 0.0011	< 0.0012	< 0.0013	< 0.0007	< 0.0014	< 0.0015
FAM02	1/20/2015	PUF	< 0.0009	< 0.0012	< 0.0013	< 0.0013	< 0.0007	< 0.0015	< 0.0015
FAM03	1/20/2015	PUF	< 0.001	< 0.0013	< 0.0015	< 0.0015	< 0.0008	< 0.0017	< 0.0017
FAM04	1/20/2015	PUF	< 0.0009	< 0.0012	< 0.0013	< 0.0014	< 0.0007	< 0.0015	< 0.0016
FAM05	1/20/2015	PUF	< 0.0009	< 0.0012	< 0.0013	< 0.0013	< 0.0007	< 0.0015	< 0.0015
Field Blank	1/20/2015	PUF	< 0.0009	< 0.0012	< 0.0013	< 0.0013	< 0.0007	< 0.0015	< 0.0015
Average 09/09/14 - 01/20/15			0.0014	0.0018	0.0013	0.0021	0.0017	0.0017	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	1/19/2015	SUMMA	0.49	< 0.1	< 0.2	0.3	< 0.2
FAM02	1/19/2015	SUMMA	0.71	< 0.1	< 0.2	0.6	< 0.2
FAM03	1/19/2015	SUMMA	1.91	0.37	< 0.2	1	0.58
FAM04	1/19/2015	SUMMA	5.3	2.02	< 0.2	2.71	1.97
FAM05	1/19/2015	SUMMA	5.3	4.66	2.4	1.8	4.66
Field Blank	1/19/2015	SUMMA	< 0.1	< 0.1	< 0.17	< 0.1	< 0.2
FAM01	1/20/2015	SUMMA	0.6	0.12	< 0.2	0.5	0.33
FAM02	1/20/2015	SUMMA	0.67	< 0.1	< 0.2	0.5	0.35
FAM03	1/20/2015	SUMMA	1.03	0.47	< 0.2	0.6	0.62
FAM04	1/20/2015	SUMMA	7.78	5.29	1.9	1.88	5.29
FAM05	1/20/2015	SUMMA	2.23	1.78	1.3	0.8	1.78
Average 09/09/14 - 01/20/15			2.07	2.28	2.18	2.20	2.85

- 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.