



ENVIRONMENTAL CONSULTANTS

234 W. FLORIDA STREET, FIFTH FLOOR
MILWAUKEE, WISCONSIN 53204
(P) 414.837.3607
(F) 414.837.3608

Report: **Weekly Progress Report**

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

Date: January 15, 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: December 29 through January 4, 2015

Natural Resource Technology, Inc. Personnel on Site

- Mark Walter, **Field Engineer**
- Andrea Salus, **Field Engineer**
- Colin Daly, **Field Engineer**
- Kenneth Mika, **Project Manager**

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

U.S. EPA Personnel on Site

- Christopher Redfearn, **OTIE**

Subcontractors on Site

- Edler Brothers Trucking, Inc., **Trucking Contractor**

Others

- None

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 1/4/15: 18,939.98 Tons
- Debris Direct Disposal (Concrete and Wood) through 1/4/15: 1,093.18 Tons
- Asbestos-Wrapped Pipe Direct Disposal through 1/4/15: 12.79 Tons
- Total Direct Disposal through 1/4/15: 20,045.95 Tons
- In-Situ Solidification/Stabilization (ISS) through 1/4/15: 51,311.50 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 preparation of an ISS work pad.
- Oversaw GSI's ISS drilling.
- Collected and prepared four ISS Construction Quality Assurance (CQA) samples (ISS-BM13-M, ISS-BE11-T, ISS-L12-B, and ISS-R12-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).
- Collected and prepared one waste profile sample of solidified pipe grout material.
- Oversaw GSI's test pit excavations in the Excavation Area and collected and prepared eight Excavation Area limit samples, one duplicate sample, one matrix spike sample, and one matrix spike duplicate sample.
- Oversaw GSI's management of ponded water.
- Oversaw GSI's weekly erosion control inspection on Tuesday (12/30).
- Issued truck manifests for disposal of peat material and concrete debris.
- 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.
- Excavated test pits in the Excavation Area for sample collection by NRT.
- 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 and concrete debris.
- Performed weekly erosion control inspection on Tuesday (12/30).
- Implemented fugitive emission controls, including covering of inactive stockpiles 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 January 5 through January 11, 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 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 12-29-14 To 1-4-15.Docx]

Field Photos:

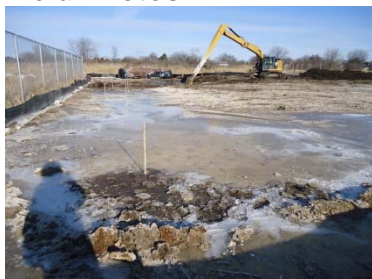


Photo 1: Excavation of peat material in the ISS Area.

Direction: Facing north

Photo Date: 12/29/2014

Photo Taken By: MDW



Photo 2: Excavation of peat material and ISS drilling in the ISS Area.

Direction: Facing southwest

Photo Date: 12/29/2014

Photo Taken By: MDW



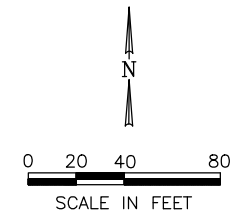
Photo 3: Filter fabric and stone backfill placed in the Excavation Area.

Direction: Facing southeast

Photo Date: 12/29/2014




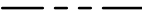
Photo Taken By: MDW

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	12/30/2014	PUF	< 0.0009	< 0.0011	< 0.0012	< 0.0013	< 0.0007	< 0.0014	< 0.0015
FAM02	12/30/2014	PUF	< 0.0009	< 0.0012	< 0.0013	< 0.0013	< 0.0007	< 0.0015	< 0.0015
FAM03	12/30/2014	PUF	< 0.001	< 0.0013	< 0.0014	< 0.0014	< 0.0008	< 0.0016	< 0.0016
FAM04	12/30/2014	PUF	< 0.0009	< 0.0012	< 0.0013	< 0.0013	< 0.0007	< 0.0015	< 0.0015
FAM05	12/30/2014	PUF	< 0.0009	< 0.0012	< 0.0013	< 0.0013	< 0.0007	< 0.0015	< 0.0015
Field Blank	12/30/2014	PUF	< 0.0009	< 0.0012	< 0.0013	< 0.0013	< 0.0007	< 0.0015	< 0.0015
Average 9/9/14 - 12/30/14			0.0015	0.0018	0.0012	0.0022	0.0018	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	12/30/2014	SUMMA	0.51	< 0.1	< 0.2	0.4	< 0.2
FAM02	12/30/2014	SUMMA	1.09	0.59	< 0.2	1.8	1.04
FAM03	12/30/2014	SUMMA	2.62	4.31	2	3.6	4.85
FAM04	12/30/2014	SUMMA	0.66	0.69	< 0.2	0.73	0.69
FAM05	12/30/2014	SUMMA	0.55	< 0.1	< 0.2	0.4	< 0.2
Field Blank	12/30/2014	SUMMA	< 0.11	< 0.1	< 0.18	0.18	< 0.2
FAM01	1/2/2015	SUMMA	1.12	0.81	< 0.2	1.2	1.14
FAM02	1/2/2015	SUMMA	2.07	0.4	< 0.2	1.4	< 0.2
FAM03	1/2/2015	SUMMA	1.61	2.81	< 0.2	2.2	2.95
FAM04	1/2/2015	SUMMA	1.33	0.52	< 0.2	0.95	< 0.2
FAM05	1/2/2015	SUMMA	1.16	0.71	< 0.2	0.9	0.76
QC01 (FAM02)	1/2/2015	SUMMA	1.19	0.95	< 0.17	1.49	1.29
Average 9/9/14 - 01/02/15			2.17	2.53	2.49	2.42	3.21

- 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.