



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 12 through January 18, 2015

Natural Resource Technology, Inc. Personnel on Site

- Mark Walter, **Field Engineer**
- Andrea Salus, **Field Engineer**
- Dan Vachon, **Remediation Coordinator**
- Todd Lewis, **Construction Manager**
- 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
- Aaron Handel

U.S. EPA Personnel on Site

- Fernando Monterey, **OTIE**

Subcontractors on Site

- Edler Brothers Trucking, Inc., **Trucking Contractor**
- F. Radandt Sons, Inc., **Trucking Contractor**

Others

- None

Visitors

- Additional NRT staff were on site for a field trip
- Tom Wentland, **WDNR**

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 1/18/15: 21,113.44 Tons
- Debris Direct Disposal (Concrete and Wood) through 1/18/15: 1,110.70 Tons
- Asbestos-Wrapped Pipe Direct Disposal through 1/18/15: 12.79 Tons
- Total Direct Disposal through 1/18/15: 22,236.93 Tons
- In-Situ Solidification/Stabilization (ISS) through 1/18/15: 59,301.72 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 seven ISS Construction Quality Assurance (CQA) samples (ISS-AY11-M, ISS-AZ12-T, ISS-BD12-B, ISS-J20-M, ISS-Q19-M, ISS-X18-T, and ISS-AB18-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.
- Performed GPS checks on GSI's survey of final design elevations of stone backfill in the Excavation Area.
- Oversaw GSI's weekly erosion control inspection on Tuesday (1/13).
- 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.
- Continued excavating soils in the Excavation Area.
- Graded stone backfill in the Excavation Area to final design elevations.
- GPS surveyed final design elevations of stone backfill in the Excavation Area.
- Imported general fill for eventual work pad construction for ISS drilling near the West Twin River.
- 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 (1/13).
- 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 19 through January 25, 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.
- Begin importing and grading general fill 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 1-12-15 To 1-18-15.Docx]

Field Photos:



Photo 1: ISS drilling in the western portion of the ISS Area along the West Twin River

Direction: Facing northwest

Photo Date: 1/14/2015

Photo Taken By: ANS



Photo 2: Grading stone backfill in the Excavation Area.

Direction: Facing northeast.

Photo Date: 1/16/2015

Photo Taken By: ANS



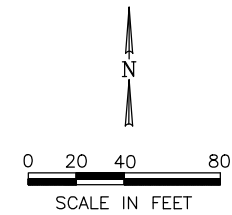
Photo 3: Placing filter fabric over graded stone backfill in the Excavation Area.

Direction: Facing west

Photo Date: 1/17/2015





Photo Taken By: ANS

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	1/14/2015	PUF	< 0.0009	< 0.0011	< 0.0012	< 0.0012	< 0.0007	< 0.0014	< 0.0014
FAM02	1/14/2015	PUF	< 0.0009	< 0.0012	< 0.0013	< 0.0013	< 0.0007	< 0.0015	< 0.0015
FAM03	1/14/2015	PUF	< 0.001	< 0.0013	< 0.0014	< 0.0014	< 0.0008	< 0.0016	< 0.0016
FAM04	1/14/2015	PUF	< 0.001	< 0.0013	< 0.0014	< 0.0015	< 0.0008	< 0.0017	< 0.0017
FAM05	1/14/2015	PUF	< 0.0009	< 0.0012	< 0.0013	< 0.0013	< 0.0007	< 0.0015	< 0.0015
Field Blank	1/14/2015	PUF	< 0.0009	< 0.0012	< 0.0013	< 0.0013	< 0.0007	< 0.0015	< 0.0015
Average 09/09/14 - 01/14/15			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	1/13/2015	SUMMA	0.65	0.39	< 0.2	0.6	0.54
FAM02	1/13/2015	SUMMA	1.05	0.59	< 0.2	1.1	0.79
FAM03	1/13/2015	SUMMA	0.72	0.49	< 0.2	0.8	0.54
FAM04	1/13/2015	SUMMA	0.69	0.28	< 0.2	0.55	0.23
FAM05	1/13/2015	SUMMA	0.61	< 0.1	< 0.2	0.7	< 0.2
QC01 (FAM01)	1/13/2015	SUMMA	0.69	0.49	< 0.18	0.81	0.43
FAM01	1/14/2015	SUMMA	0.71	0.38	< 0.2	0.7	< 0.2
FAM02	1/14/2015	SUMMA	0.85	0.53	< 0.2	1	0.72
FAM03	1/14/2015	SUMMA	0.78	0.36	< 0.2	0.9	< 0.2
FAM04	1/14/2015	SUMMA	0.6	< 0.1	< 0.2	0.54	< 0.2
FAM05	1/14/2015	SUMMA	0.57	< 0.1	< 0.2	0.6	< 0.2
Field Blank	1/14/2015	SUMMA	< 0.1	< 0.1	< 0.17	< 0.1	< 0.2
Average 09/09/14 - 01/14/15			2.04	2.32	2.25	2.25	2.91

- 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.