



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 26 through February 1, 2015

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Natural Resource Technology, Inc. Personnel on Site

- Mark Walter, **Field Engineer**
- Andrea Salus, **Field Engineer**
- Dan Vachon, **Remediation Coordinator**
- Ken Mika, **Project Manager**
- Todd Lewis, **Construction Manager**
- Roy Wittenberg, **Principal Engineer**

Integrys/Wisconsin Public Service Corporation Personnel on Site

- Brian Bartoszek
- Kevin Mataczynski

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

- Brad Benning, **U.S. EPA**
- Fernando Monterey, **OTIE**

#### Subcontractors on Site

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

#### Others

- None

#### Visitors

- Tom Wentland, **WDNR**
- Cheryl Bougie, **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 2/1/15: 25,634.26 Tons
- Debris Direct Disposal (Concrete and Wood) through 2/1/15: 1,110.70 Tons
- Asbestos-Wrapped Pipe Direct Disposal through 2/1/15: 12.79 Tons
- Solidified Pipe Grout Direct Disposal through 2/1/15: 13.68 Tons
- Total Direct Disposal through 2/1/15: 26,771.43 Tons
- In-Situ Solidification/Stabilization (ISS) through 2/1/15: 67,847.13 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 12 SUMMA canister samples were collected, including two samples at each of the five air monitoring station locations, one duplicate sample, 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 six ISS Construction Quality Assurance (CQA) samples (ISS-PR3-T, ISS-G13-M, ISS-AC23-B, ISS-AN22-M, ISS-AS21-T, and ISS-AW23-M).
- 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 importing and placing of stone backfill and general fill in the portions of the Excavation Area with verified final design base elevations.
- Oversaw GSI's test pit excavations in the U.S. Oil property Excavation Areas and collected and prepared six Excavation Area limit samples, one duplicate sample, one matrix spike sample, and one matrix spike duplicate sample.
- Oversaw GSI's weekly erosion control inspection on Tuesday (1/27).
- 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.

- Completed 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.
- Continued importing and placing stone backfill and general fill in the portions of the Excavation Area with verified final design base elevations.
- Excavated test pits in the U.S. Oil property Excavation Areas 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.
- Performed weekly erosion control inspection on Tuesday (1/27).
- 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 February 2 through February 8, 2015

- 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 Excavation Area limit soil sampling.
- 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.

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 1-26-15 To 2-1-15.Docx]



**Field Photos:**



**Photo 1:** ISS drilling and test pit excavation for excavation limit sample collection in the U.S. Oil property Excavation Areas.

**Direction:** Facing southwest

**Photo Date:** 1/26/2015

**Photo Taken By:** ANS



**Photo 2:** ISS drilling along the Ordinary High Water Mark of the West Twin River.

**Direction:** Facing northwest

**Photo Date:** 1/26/2015

**Photo Taken By:** ANS



**Photo 3:** Excavation in the southern portion of the Excavation Area.

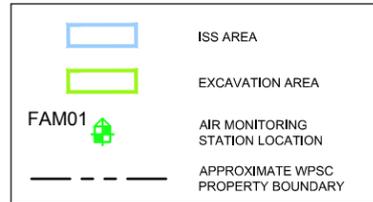
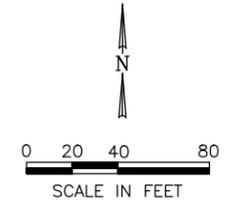
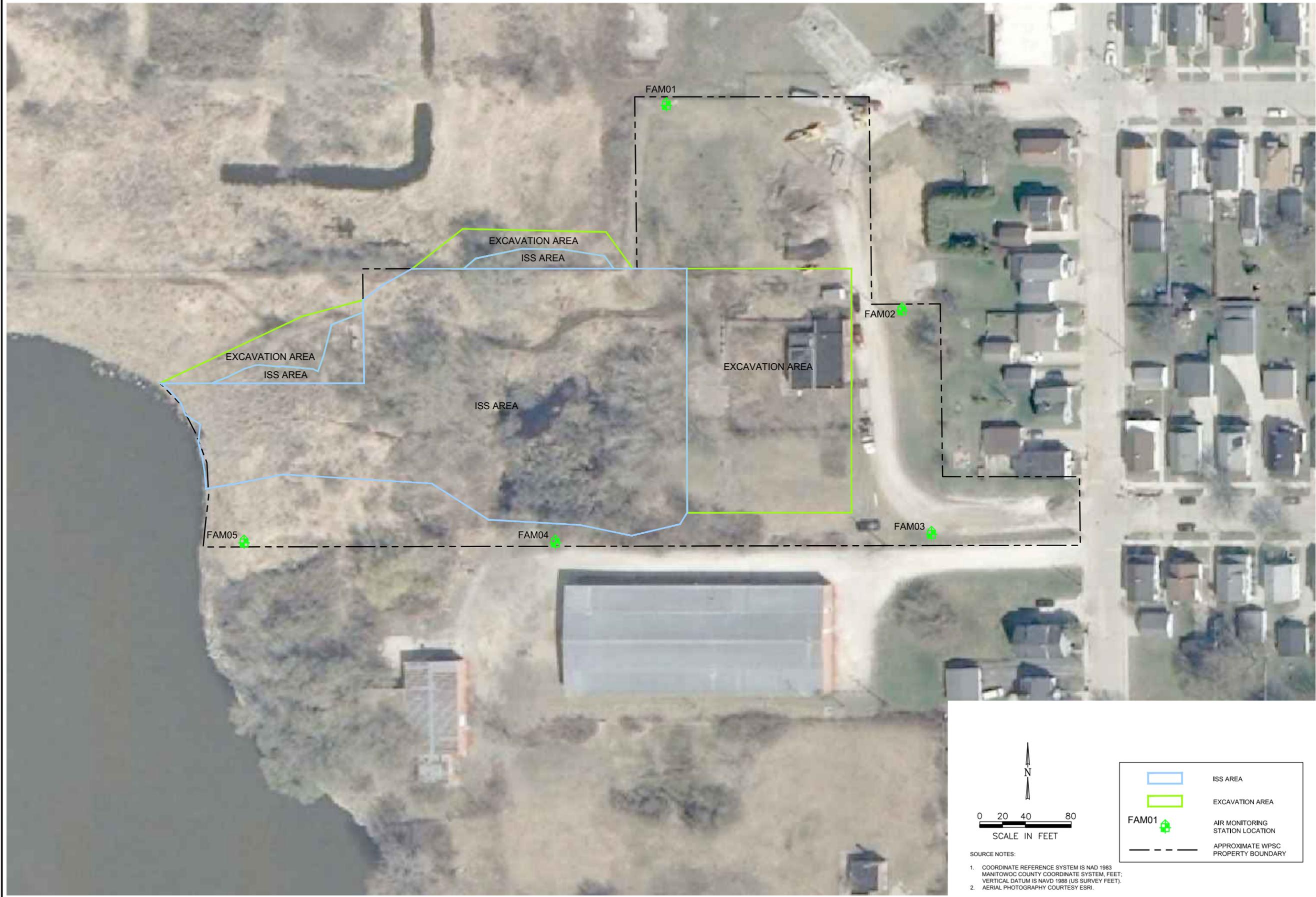
**Direction:** Facing southwest

**Photo Date:** 1/30/2015

**Photo Taken By:** ANS



Oct 30, 2014 1:33pm PLOTTED BY: rhopkins SAVED BY: rhopkins  
 I:\ACADATA\Projects\15\1569 2riv\1569\_14-8\1569-148-B01.dwg Layout1  
 WREFS: I:\GIS\Projects\15\1569\CAD\1569\CAD\Manitowoc\_Co\_Imagery\_2010\_v2.tif



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.

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:			

# 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

**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)
<b>Site-Specific Air SL (1E-04)</b>			<b>160</b>	<b>16</b>	<b>160</b>	<b>160</b>	<b>1600</b>	<b>15</b>	<b>160</b>
<b>Site-Specific Air SL (1E-05)</b>			<b>16</b>	<b>1.6</b>	<b>16</b>	<b>16</b>	<b>160</b>	<b>1.5</b>	<b>16</b>
<b>Site-Specific Air SL (1E-06)</b>			<b>1.6</b>	<b>0.16</b>	<b>1.6</b>	<b>1.6</b>	<b>16</b>	<b>0.15</b>	<b>1.6</b>
FAM01	1/27/2015	PUF	< 0.0009	< 0.0011	< 0.0012	< 0.0013	< 0.0007	< 0.0014	< 0.0015
FAM02	1/27/2015	PUF	< 0.0009	< 0.0012	< 0.0013	< 0.0013	< 0.0007	< 0.0015	< 0.0015
FAM03	1/27/2015	PUF	< 0.001	< 0.0013	< 0.0014	< 0.0015	< 0.0008	< 0.0017	< 0.0017
FAM04	1/27/2015	PUF	< 0.0009	< 0.0012	< 0.0013	< 0.0013	< 0.0007	< 0.0015	< 0.0016
FAM05	1/27/2015	PUF	< 0.0009	< 0.0012	< 0.0013	< 0.0013	< 0.0007	< 0.0015	< 0.0015
<b>Average 09/09/14 - 01/27/15</b>			<b>0.0014</b>	<b>0.0018</b>	<b>0.0013</b>	<b>0.0021</b>	<b>0.0016</b>	<b>0.0017</b>	<b>0.0015</b>

Sample Location	Sample Date	Sample Type	Benzene (ug/m3)	Ethylbenzene (ug/m3)	Naphthalene (ug/m3)	Toluene (ug/m3)	Xylene (total) (ug/m3)
<b>Site-Specific Air SL (1E-04)</b>			<b>110</b>	<b>7100</b>	<b>42</b>	<b>7000</b>	<b>560</b>
<b>Site-Specific Air SL (1E-05)</b>			<b>110</b>	<b>710</b>	<b>42</b>	<b>7000</b>	<b>560</b>
<b>Site-Specific Air SL (1E-06)</b>			<b>23</b>	<b>71</b>	<b>5.2</b>	<b>7000</b>	<b>560</b>
FAM01	1/26/2015	SUMMA	0.96	0.46	< 0.2	1	0.49
FAM02	1/26/2015	SUMMA	0.96	0.28	< 0.2	1.1	0.68
FAM03	1/26/2015	SUMMA	0.86	0.58	< 0.2	1	1.5
FAM04	1/26/2015	SUMMA	1.32	0.82	< 0.2	1.43	1.31
FAM05	1/26/2015	SUMMA	0.86	0.73	< 0.2	1.1	1.21
QC01 (FAM03)	1/26/2015	SUMMA	0.93	0.58	< 0.18	1.26	1.6
FAM01	1/27/2015	SUMMA	1.36	1.02	< 0.2	1.4	1.7
FAM02	1/27/2015	SUMMA	1.04	0.68	< 0.2	2.3	1.36
FAM03	1/27/2015	SUMMA	2.25	1.46	< 0.2	1.9	2.19
FAM04	1/27/2015	SUMMA	2.14	1.89	< 0.2	2.02	2.67
FAM05	1/27/2015	SUMMA	1.25	0.97	< 0.2	1.1	1.07
Field Blank	1/27/2015	SUMMA	< 0.1	< 0.1	< 0.18	< 0.11	< 0.2
<b>Average 09/09/14 - 01/27/15</b>			<b>2.03</b>	<b>2.22</b>	<b>2.09</b>	<b>2.16</b>	<b>2.79</b>

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.