

April 2, 2015

Mr. Maurice F. Moore Engineering Geologist 1 New York State Department of Environmental Conservation Division of Environmental Remediation 270 Michigan Ave Buffalo, New York 14203-2915

Re: Tecumseh Phase III Business Park Sites III-7 & III-8

BCP Site No.s C915199G & C915199H

Lackawanna, New York Periodic Review Report

Dear Mr. Moore:

Enclosed please find a hard copy of the Periodic Review Report (PRR) for the above-referenced sites, which was electronically transmitted to the Department on April 2, 2015.

The PRR has been prepared for the Sites with IC/EC Certification forms completed. As indicated in the PRR, the institutional controls are in place and the Sites are in compliance with the Site Management Plan for the reporting periods of December 11, 2013 – March 15, 2015 for Site III-7 and August 13, 2014 – March 15, 2015 for Site III-8.

Please contact us if you have any questions or require additional information.

Sincerely,

Benchmark Environmental Engineering & Science, PLLC

Thomas H. Forbes, P.E.

Principal Engineer

cc: Robert Pike – Welded Tube USA

Joel Shapiro – Welded Tube USA

File: 0262-015-001

# Periodic Review Report

Tecumseh Phase III Business Park Sites III-7 and III-8

NYSDEC Site Nos. C915199G & C915199H

**April 2015** 

0262-015-001

**Prepared For:** 

Welded Tube USA

Prepared By:



# PERIODIC REVIEW REPORT

# TECUMSEH PHASE III BUSINESS PARK SITES III-7 & III-8 (BCP SITE No.s C915199G & C915199H)

LACKAWANNA, NEW YORK

April 2015 0262-015-001

Prepared for:

# Welded Tube USA

Prepared By:



Benchmark Environmental Engineering & Science, PLLC 2558 Hamburg Turnpike, Suite 300 Buffalo, NY 14218 (716)856-0599

# PERIODIC REVIEW REPORT

# Tecumseh Phase II Business Park Sites III-7 & III-8

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# PERIODIC REVIEW REPORT

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0262-015-001

#### 1.0 Introduction

Benchmark Environmental Engineering and Science, PLLC (Benchmark) has prepared this Periodic Review Report (PRR) to summarize the post-remedial status of New York State Department of Environmental Conservation (NYSDEC) Brownfield Cleanup Program (BCP) Site No.s C915199G and C915199H, located at 2537 and 2539 Hamburg Turnpike, respectively, in the City of Lackawanna, Erie County, New York (see Figure 1).

This PRR has been prepared for the Subject BCP Sites in accordance with NYSDEC DER-10 *Technical Guidance for Site Investigation and Remediation* (May 2010). The NYSDEC's Institutional and Engineering Controls (IC/EC) Certification Forms have been completed for the Sites (see Appendix A).

This PRR and the associated certifications have been completed for the post-remedial activities at the Sites from the time of COC issuance to March 15, 2015. Specifically, the post remedial periods covered by this PRR are:

- Site III-7 (C915199G): December 17, 2013 March 15, 2015
- Site III-8 (C915199H): August 13, 2014 March 15, 2015<sup>1</sup>

## 1.1 Site Background

In March of 2007 Tecumseh Redevelopment Inc. (Tecumseh) entered into a Brownfield Cleanup Agreement (BCA) with the New York State Department of Environmental Conservation (NYSDEC) to investigate and remediate an approximate 150-acre property located in Lackawanna, New York. The property, deemed the "Phase III Business Park Site" is located in the County of Erie, New York and encompasses tax parcel numbers 141.15-1-1, 141.15-1-2, and part of tax parcel number 141.11-1-50 per Erie County Tax Map records. The Phase III Business Park Site is bounded by Gateway Metroport Ship Canal and property owned by Gateway Trade Center to the north; the South Buffalo Railroad Company to the south; Phase II Business Park Site and the South Return Water Trench (SRWT) to the east; and other Tecumseh property to the west (see Figures 1 and 2). The 150-acre Phase III Business Park was originally deemed Brownfield Cleanup Program (BCP) Site No. C915199, but was subsequently subdivided into ten smaller parcels to

<sup>&</sup>lt;sup>1</sup> The reporting period end date for Site C915199H was advanced at the request of the property owner to match Site C915199G, which is under the same ownership.



facilitate remediation and redevelopment (see Figure 2). On August 20, 2012, the original BCA for Site C915199 was amended to cover the smaller Site III-1, with separate BCAs issued and executed for the remaining nine BCP Sites (i.e., Sites III-2 through III-10, having BCP Site Nos. C915199B through C915199J).

In October 2012, Welded Tube USA Realty, LLC<sup>2</sup> acquired from Tecumseh the 39.2-acre Site III-7 to construct a new manufacturing facility, and the adjacent 5.9-acre Site III-8 for future expansion (see Figure 3). Welded Tube USA was added to the Brownfield Cleanup Agreements (BCAs) for these Sites concurrent with transfer of the properties.

### 1.2 Remedial History

#### 1.2.1 Phase III Business Park

The approximate 150-acre Phase III Business Park was formerly part of the Bethlehem Steel Corporation (BSC) Lackawanna Works and housed several facilities used in BSC's) steel manufacturing processes. Specific processes and steel making facilities performed on or proximate to the subject BCP Sites included:

- Open Hearth Furnaces
- Basic Oxygen Furnace
- Mold Warming and Preparation
- Electrical Substations
- Wastewater Treatment

Remedial Investigation (RI) activities on the Phase III Business Park were initiated in August 2008, with additional activities undertaken in late 2009 through early 2010. Some supplemental investigation work was also completed in April 2012.

The RI identified several Constituents of Concern (COCs) that were generally present across widespread areas of the Phase III Business Park site, primarily in site soils and to a

<sup>&</sup>lt;sup>2</sup> Welded Tube USA Realty, LLC (property owner) and Welded Tube USA, Inc. (manufacturing asset owner) are collectively referred to herein as Welded Tube USA



lesser extent in groundwater. These included polyaromatic hydrocarbons (PAHs), arsenic, lead, and mercury. Isolated areas of petroleum impact were also encountered. The Remedial Investigation/Alternatives Analysis (RI/AA) Report recommended remediation of "hotspot" slag/fill (characterized by more pronounced levels of COCs) and isolated groundwater/saturated soil impacts (affecting only select sites in the Phase III Business Park), with cover placement recommended as the final remedial measure under a Track 4 Cleanup approach. Additional requirements included development and adherence to a Site Management Plan (SMP) and filing of an Environmental Easement to restrict use of the Phase III Business Park property to commercial and industrial applications and to place other limitations on post-redevelopment activities.

#### 1.2.2 Sites III-7 & III-8

Prior to the sale of sites III-7 and III-8 to Welded Tube USA, Tecumseh committed to complete hotspot soil/fill cleanup work on those sites as an Interim Remedial Measure (IRM). The IRM work was substantially completed in late 2012. Decision Documents for Sites III-7 & III-8 were subsequently issued by the NYSDEC in May 2013 after completion of Tecumseh's IRM hotspot soil/fill remedial work. The Decision Documents specified the final/remaining remedial measures including, among other requirements, placement of acceptable cover material in areas not otherwise covered by buildings, pavement, etc.

Cover placement on Site III-7 was completed in 2013. Due to the tight construction schedule and pending winter weather final remedial measures cover placement on Site III-8 was deferred until spring of 2014.

#### 1.3 Compliance

At the time of the Site inspection, the Site was fully compliant with the NYSDEC-approved SMP dated November 2013 (revised November 2014).

#### 1.4 Recommendations

Based on the results of the annual inspection and certification, no modifications are recommended at this time with the exception of a change in the reporting period to avoid



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TECUMSEH PHASE III BUSINESS PARK SITES III-7 & III-8 PERIODIC REVIEW REPORT

potential incomplete or hindered site inspection due to snow cover. It is requested that the PRR deadline be shifted by one month from April 15th to May 15th.



0262-015-001

#### 2.0 SITE OVERVIEW

An overview of the remediation and redevelopment activities undertaken on the Sites covered by this PRR is presented below. All of the remediated properties within the Phase III Business Park are subject to a comprehensive, site-wide SMP which identifies requirements for monitoring and maintenance of engineering and institutional controls and procedures for post-remedial excavation and related activities. Specific requirements affecting individual Sites within Phase III Business Park are included as appendices to the comprehensive plan. The SMP is updated as additional Sites within the Phase III Business Park are remediated.

#### 2.1 Site III-7

Site III-7 is presently addressed as 2537 Hamburg Turnpike, Lackawanna, New York 14218. Welded Tube USA redeveloped the Site under the BCP as a tubing manufacturing facility. The remedial activities performed on the Site are listed below:

- Excavation of approximately 210 cubic yards (CY) of arsenic-impacted hotspot slag/fill followed by off-site disposal of these materials at an approved offsite solid waste landfill facility (completed as an IRM by Tecumseh).
- Excavation of approximately 2,640 tons of petroleum-impacted slag/fill followed by onsite bioremediation of the impacted materials (completed as an IRM by Tecumseh).
- Excavation of approximately 795 tons of an odorless, blackish, non-soil material intermingled with slag and partly present within an approximate 10-foot by 10-foot by 10-foot deep sub-grade concrete chamber. Excavated materials were disposed at an approved offsite solid waste landfill facility.
- Installation of a vapor barrier beneath the newly constructed manufacturing building.
- Removal of subgrade coke oven gas piping and residual impacted slag/fill. Impacted materials were disposed at an offsite solid waste landfill facility, with cleaned piping sent offsite for scrap reclamation.
- Placement of a cover system comprised of building, pavement, vegetated soils and imported beneficial use determination (BUD)-approved slag over a demarcation



layer. Imported slag and clean vegetated cover were placed to a minimum thickness of 1 foot.

The remedial program was successful in achieving the remedial objectives for the Site. An Environmental Easement restricting end use of the Site and enforcing adherence to the SMP was filed in November 2013. The Final Engineering Report (FER) was approved in November 2013. A Certificate of Completion (COC) was issued for Site III-7 by the NYSDEC in December 2013.

#### 2.2 Site III-8

Site III-8 is also owned by Welded Tube USA and is similarly addressed as 2537 Hamburg Turnpike, Lackawanna, New York 14218. Welded Tube USA redeveloped the Site under the BCP as an extension of the laydown yard for the tubing manufacturing facility on the adjacent Site III-7 and to facilitate potential future expansion of the manufacturing operation. The remedial activities performed on the Site are listed below:

- Excavation of approximately 30 cubic yards (CY) of arsenic-impacted hotspot slag/fill followed by off-site disposal of these materials at an approved offsite solid waste landfill facility (completed as an IRM by Tecumseh).
- Placement of a cover system comprised of beneficial use determination (BUD)approved slag over a demarcation layer. Imported slag was placed to a minimum thickness of 1 foot.

The remedial program was successful in achieving the remedial objectives for the Site. An Environmental Easement restricting end use of the Site and enforcing adherence to the SMP was filed in November 2013. The Final Engineering Report (FER) was approved in June 2014. A Certificate of Completion (COC) was issued for Site III-8 by the NYSDEC in August 2014.



#### 3.0 REMEDY PERFORMANCE

A post-remedial site inspection involving a walk-over of the Sites covered by this PRR was performed to visually observe and document the use of the Site for commercial/industrial use, confirm absence of site groundwater use, inspect the cover system integrity, and verify conformance with other requirements under the SMP. The site inspection completed during this reporting period indicates that the controls are in-place and functioning as intended in accordance with the SMP.

The completed IC/EC Certification forms and site photographs are included in Appendices A and B, respectively.



#### 4.0 SITE MANAGEMENT PLAN

A site-wide SMP was prepared for the Phase III Business Park and approved by the Department in November 2013. (An addendum to the SMP was prepared and approved in November 2014 to accommodate other Sites not covered by this PRR). Parcel-specific SMP requirements for Sites III-7 and III-8 are presented in Appendix H7/H8 of that report. Key components of the SMP are described below.

### 4.1 Engineering and Institutional Control (IC/EC) Plan

Since remaining contaminated soil/fill and groundwater exists beneath the Phase III Business Park, Engineering Controls and Institutional Controls (EC/ICs) are required to protect human health and the environment. The Engineering and Institutional Control Plan describes the procedures for the implementation and management of all EC/ICs on the Sites within the Phase III Business Park.

#### 4.1.1 Institutional Controls

The following institutional controls apply to all Sites within the Phase III Business Park:

- The use and development of the property is restricted to commercial and industrial uses as defined by Part 375-1.8(g), although land use is subject to local zoning laws;
- Groundwater cannot be used as a source of potable or process water, without necessary water quality treatment as determined by the New York State Department of Health (NYSDOH) or County DOH;
- All Sites must comply with the Department approved Site Management Plan; and
- The remedial party or site owner must complete and submit to the Department a periodic certification of institutional and engineering controls in accordance with Part 375-1.8(h)(3.)

# 4.1.2 Engineering Controls

Engineering controls covering Sites within the Phase III Business Park include:



- Cover System The cover system, including building foundations, concrete sidewalks, concrete or asphalt driveways, parking areas, and landscaped vegetated areas must be maintained in compliance with the SMP.
- Vapor Barrier (specific to Sites with buildings) A poly vapor barrier must be installed and remain in-place beneath building concrete floor slab.

At the time of the site inspection, the Sites covered by this PRR were fully compliant with all engineering and institutional control requirements.

#### 4.2 Excavation Work Plan

An Excavation Work Plan (EWP) was included in the approved-SMP for the Phase III Business Park. The Excavation Work Plan provides guidelines for the management of soil and fill material during any future intrusive actives. Any intrusive work that will penetrate the cover or cap, or encounter or disturb the remaining contamination, including any modifications or repairs to the existing cover system, must be performed in compliance with the EWP and must also be conducted in accordance with a site-specific Health and Safety Plan (HASP) and Community Air Monitoring Plan (CAMP) meeting the minimum requirements of the sample HASP and CAMP included with the SMP.

For the Subject Sites III-7 and III-8 no intrusive activities requiring management of on-Site soil or fill material; placement of backfill materials or disturbance of the cover system occurred during the monitoring period with the exception of perimeter security fencing installation, which was conducted in January 2014. Fence post installation activities were observed by Benchmark to verify conformance with the SMP. Posts were driven through the cover; no spoils were generated.

## 4.3 Annual Inspection and Certification Program

The Annual Inspection and Certification Program outlines requirements for certifying and attesting that the institutional controls and engineering controls employed on the Sites are unchanged from the original design and/or previous certification. The Annual



Certification includes a Site Inspection and completion of the NYSDEC's IC/EC Certification Form. The Site inspection is intended to verify that the IC/ECs:

- Are in place and effective.
- Are performing as designed.
- That nothing has occurred that would impair the ability of the controls to protect the public health and environment.
- That nothing has occurred that would constitute a violation or failure to comply with any operation and maintenance plan for such controls.
- Access is available to the Site to evaluate continued maintenance of such controls.

Inspection of Sites III-7 and III-8 was conducted by <u>Thomas Forbes</u>, <u>P.E.</u> of Benchmark on March 27, 2015. Mr. Forbes is a licensed and registered NY State Professional Engineer and meets the requirements of a Qualified Environmental Professional (QEP) per 6NYCRR Part 375.12. At the time of the inspection, the Sites were being used as a pipe manufacturing facility (Welded Tube USA), with pipe lay down areas, surface parking, paved walkways and landscaped areas. No observable indication of intrusive activities was noted during the Site inspection. The manufacturing facility utilizes the local municipal water supply, and no observable use of groundwater was noted during the Site inspection.

The completed Site Management Periodic Review Report Notice – Institutional and Engineering Controls Certification Forms are included in Appendix A. A photolog of the Site inspection is included in Appendix B.

# 4.4 Operation, Monitoring and Maintenance Plan

The remedy for Sites III-7 and III-8 does not rely on any mechanical systems such as sub-slab depressurization or soil vapor extraction, to protect public health and the environment. Therefore, an Operation and Maintenance Plan is not required.



#### 5.0 GROUNDWATER MONITORING

A supplemental groundwater monitoring event was performed in February 2013 to characterize overburden groundwater at wells MWN-10 and MWN-61A on Sites III-7 and III-8. Groundwater samples from the monitoring wells were analyzed for Target Compound List (TCL) volatile organic compounds (VOCs) per USEPA Method 8260 and TCL semi-volatile organics (SVOCs) per Method 8270. A copy of the groundwater monitoring report is included in Appendix C.

Table 1 of the monitoring report summarizes the analytical data from the February 2013 groundwater monitoring event, as well as groundwater monitoring data from events completed during the Remedial Investigation (RI) of Business Park III, with comparison to NYSDEC Class GA groundwater quality standards (GWQS) as listed in NYSDEC Division of Water Technical and Operational Guidance Series (TOGS) 1.1.1.

As indicated, MWN-10 exhibited non-detectable concentrations of VOCs and SVOCs during the supplemental monitoring event. Parameter concentrations at monitoring well MWN-61A showed a significant drop since the well was sampled during the 2010 RI, with only naphthalene and nitrobenzene reported at levels slightly above their respective standards.



# 6.0 CONCLUSIONS AND RECOMMENDATIONS

Conclusions and recommendations are as follows:

• At the time of the Site inspection, Sites III-7 and III-8 were in compliance with the SMP.

The following modifications are recommended for the Site:

• No modifications are recommended at this time with the exception of a change in the reporting period to avoid potential incomplete or hindered inspection due to snow cover. It is requested that the PRR deadline be shifted by one month from April 15th to May 15th.



# 7.0 DECLARATION/LIMITATION

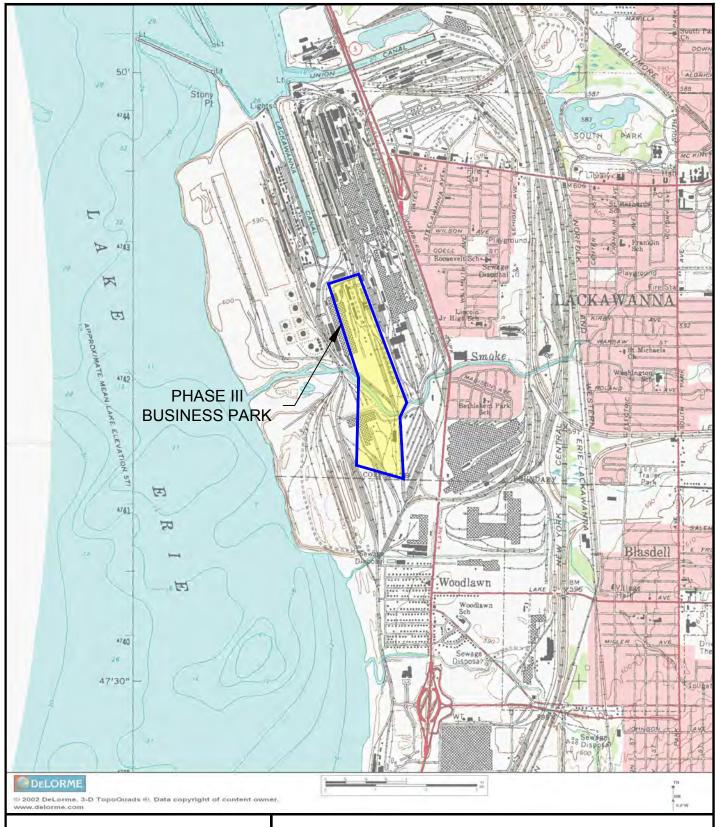
This report has been prepared for the exclusive use of Welded Tube USA. The contents of this report are limited to information available at the time of the site inspection. The findings herein may be relied upon only at the discretion of Welded Tube USA. Use of or reliance upon this report or its findings by any other person or entity is prohibited without written permission of Benchmark Environmental Engineering and Science, PLLC.



# **FIGURES**



#### FIGURE 1





2558 HAMBURG TURNPIKE SUITE 300 BUFFALO, NY 14218 (716) 856-0599

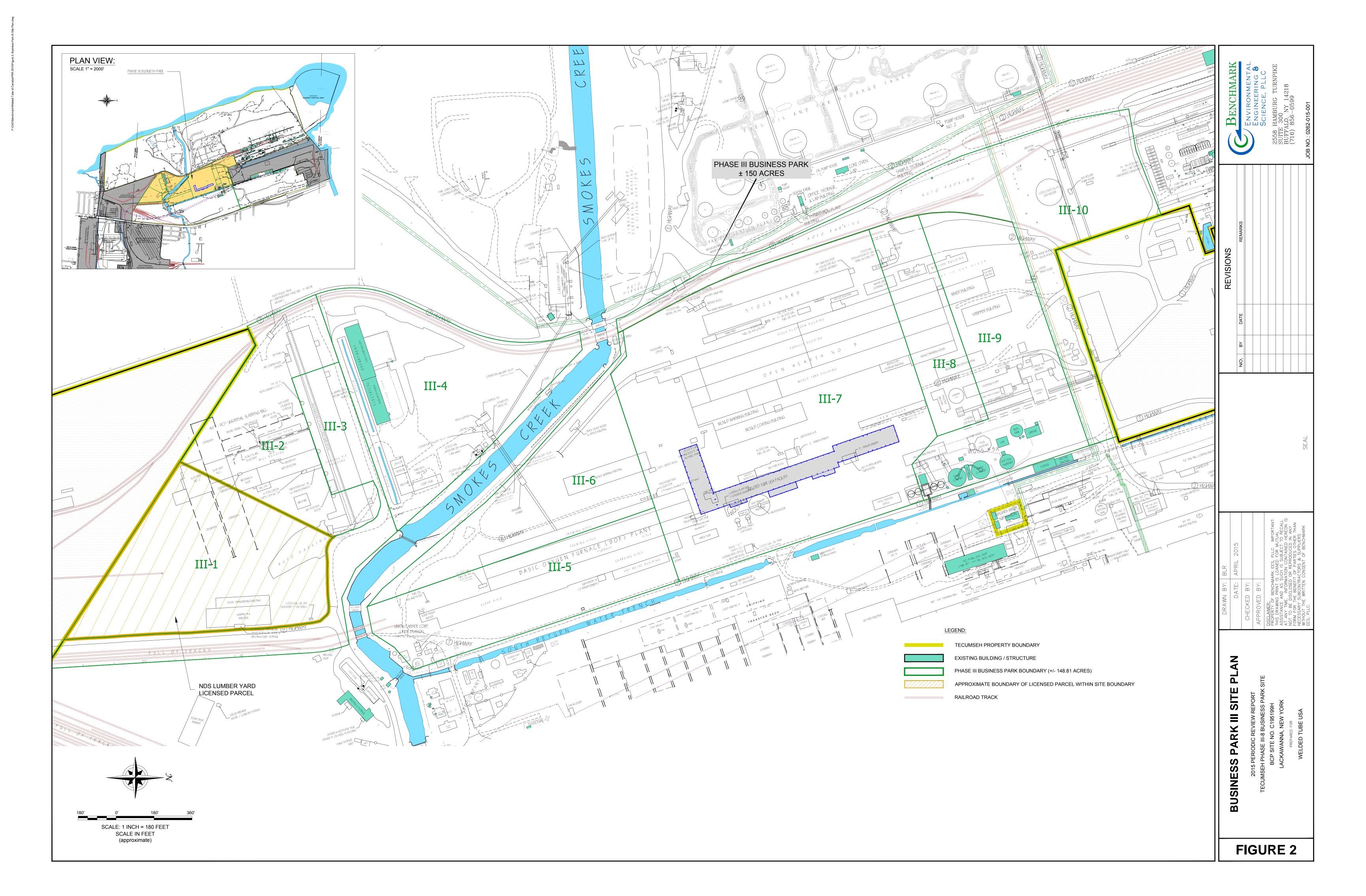
PROJECT NO.: 0262-015-001

DATE: APRIL 2015
DRAFTED BY: BLR

# SITE LOCATION & VICINITY MAP

2015 PERIODIC REVIEW REPORT

TECUMSEH PHASE III-8 BUSINESS PARK SITE BCP SITE NO. C195199H LACKAWANNA, NEW YORK PREPARED FOR WELDED TUBE USA



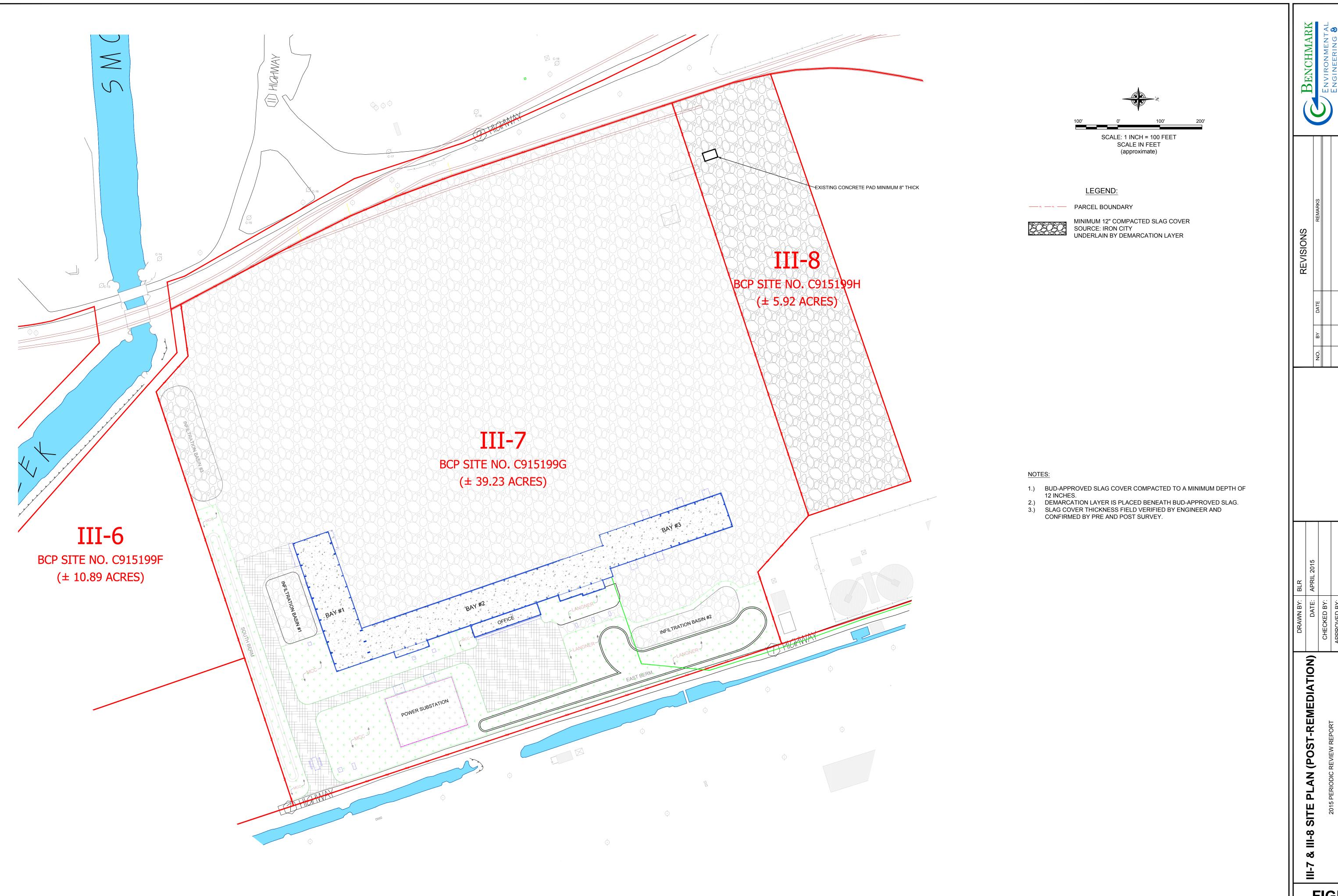


FIGURE 3

# **APPENDIX A**

# INSTITUTIONAL & ENGINEERING CONTROLS CERTIFICATION FORMS



# **APPENDIX A1**

SITE III-7





# Enclosure 2 NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION Site Management Periodic Review Report Notice Institutional and Engineering Controls Certification Form



S	ite No.	C915199G	Site Details	Вох	1
S	ite Name	Site III-7 Tecumseh Phase II	II Business Park		
Ci	te Address ty/Town : ounty: Erie te Acreage		Zip Code: 14218		
Re	eporting P	eriod: December 17, 2013 to	March 15, 2015		
				YES	NO
1.	Is the in	formation above correct?			
	If NO, in	clude handwritten above or or	n a separate sheet.		
2.	Has som tax map	ne or all of the site property be amendment during this Repo	een sold, subdivided, merged, or undergone a rting Period?		
3.	Has there been any change of use at the site during this Reporting Period (see 6NYCRR 375-1.11 (d))?			×	
4.	Have any for or at i	y federal, state, and/or local p the property during this Repor	ermits (e.g., building, discharge) been issued rting Period?		
	If you an	swered YES to questions 2 umentation has been previous	thru 4, include documentation or evidence busly submitted with this certification form		
5.	Is the site	e currently undergoing develo	pment?		
				Box 2	
				YES	NO
3.	Is the cur Commerc	rent site use consistent with to ial and Industrial	he use(s) listed below?		
	Are all IC	s/ECs in place and functioning	g as designed?		
	IF 1	THE ANSWER TO EITHER QU DO NOT COMPLETE THE R	ESTION 6 OR 7 IS NO, sign and date below a REST OF THIS FORM. Otherwise continue.	nd	
Co	orrective f	Measures Work Plan must be	submitted along with this form to address th	ese iss	ues.
	ature of O	wner, Remedial Party or Design	- And December 1		
Sian	BILLIE OF LA		nated Representative Date		

			Box	2A	
8. Has any new	Has any new information revealed that assumptions made in the Qualitative Exposure			NO	
Assessment	egarding offsite contamination are no longer va	alid?		×	
If you answered YES to question 8, include documentation or evidence that documentation has been previously submitted with this certification form.					
<ol><li>Are the assur (The Qualitati</li></ol>	nptions in the Qualitative Exposure Assessmen ve Exposure Assessment must be certified eve	t still valid? ry five years)	×		
If you answe updated Qua	red NO to question 9, the Periodic Review R litative Exposure Assessment based on the	deport must include an new assumptions.			
SITE NO. C915199	G		Вох 3		
Descriptio	n of Institutional Controls				
<u>Parcel</u> 141.15-1-1	Owner Welded Tube USA Realty, LLC.	Institutional Control Ground Water Use Rest Soil Management Plan Landuse Restriction Site Management Plan IC/EC Plan	riction		
Adherence to Site M Restriction to common Prohibition of ground Allowance for Depar Requires a Periodic	anagement Plan (SMP) ercial re-use lwater use tmental access				
Description	n of Engineering Controls		Box 4		
Parcel 141.15-1-1	Engineering Control Cover System				
Engineering Control E	escription:				
Engineering Control D					

.

Periodic Review Report (PRR) Certification Statements		
I certify by checking "YES" below that:		
<ul> <li>a) the Periodic Review report and all attachments were prepared under the dire reviewed by, the party making the certification;</li> </ul>	ction of	and
are in accordance with the requirements of the site remedial program, and gene	in this c	ertification cepted
originating practices, and the information presented is accurate and compete.	YES	NO
	$\boxtimes$	
If this site has an IC/EC Plan (or equivalent as required in the Decision Document), for or Engineering control listed in Boxes 3 and/or 4, I certify by checking "YES" below the following statements are true:	each Ir it all of t	nstitutional he
(a) the Institutional Control and/or Engineering Control(s) employed at this site is the date that the Control was put in-place, or was last approved by the Department	s uncha ent;	nged since
<ul><li>(b) nothing has occurred that would impair the ability of such Control, to protect the environment;</li></ul>	public h	ealth and
<ul> <li>(c) access to the site will continue to be provided to the Department, to evaluate including access to evaluate the continued maintenance of this Control;</li> </ul>	the ren	nedy,
(d) nothing has occurred that would constitute a violation or failure to comply with Management Plan for this Control; and	th the S	ite
(e) if a financial assurance mechanism is required by the oversight document for mechanism remains valid and sufficient for its intended purpose established in the	r the sit	e, the ment.
	YES	NO
	×	
IF THE ANSWER TO QUESTION 2 IS NO, sign and date below and DO NOT COMPLETE THE REST OF THIS FORM. Otherwise continue.		
A Corrective Measures Work Plan must be submitted along with this form to address the	iese iss	ues.
Signature of Owner, Remedial Party or Designated Representative Date		
	a) the Periodic Review report and all attachments were prepared under the dire reviewed by, the party making the certification; b) to the best of my knowledge and belief, the work and conclusions described are in accordance with the requirements of the site remedial program, and gene engineering practices; and the information presented is accurate and compete.  If this site has an IC/EC Plan (or equivalent as required in the Decision Document), for or Engineering control listed in Boxes 3 and/or 4, I certify by checking "YES" below the following statements are true:  (a) the Institutional Control and/or Engineering Control(s) employed at this site is the date that the Control was put in-place, or was last approved by the Department (b) nothing has occurred that would impair the ability of such Control, to protect the environment;  (c) access to the site will continue to be provided to the Department, to evaluate including access to evaluate the continued maintenance of this Control;  (d) nothing has occurred that would constitute a violation or failure to comply will Management Plan for this Control; and  (e) If a financial assurance mechanism is required by the oversight document for mechanism remains valid and sufficient for its intended purpose established in the DO NOT COMPLETE THE REST OF THIS FORM. Otherwise continue.	a) the Periodic Review report and all attachments were prepared under the direction of reviewed by, the party making the certification;  b) to the best of my knowledge and belief, the work and conclusions described in this care in accordance with the requirements of the site remedial program, and generally accengineering practices; and the information presented is accurate and compete.  YES  If this site has an IC/EC Plan (or equivalent as required in the Decision Document), for each Ir or Engineering control listed in Boxes 3 and/or 4, I certify by checking "YES" below that all of the following statements are true:  (a) the Institutional Control and/or Engineering Control(s) employed at this site is unchat the date that the Control was put in-place, or was last approved by the Department;  (b) nothing has occurred that would impair the ability of such Control, to protect public the environment;  (c) access to the site will continue to be provided to the Department, to evaluate the remincluding access to evaluate the continued maintenance of this Control;  (d) nothing has occurred that would constitute a violation or failure to comply with the Si Management Plan for this Control; and  (e) if a financial assurance mechanism is required by the oversight document for the site mechanism remains valid and sufficient for its intended purpose established in the document in the document of the site mechanism remains valid and sufficient for its intended purpose established in the document in the docum

#### IC CERTIFICATIONS SITE NO. C915199G

Box 6

SITE OWNER OR DESIGNATED REPRESENTATIVE SIGNATURE

I certify that all information and statements in Boxes 1,2, and 3 are true. I understand that a false statement made herein is punishable as a Class "A" misdemeanor, pursuant to Section 210.45 of the Penal Law.

I Robert Pike at 2537 Hamburg Turner Pike print name print business address

am certifying as Owner (Owner or Remedial Party)

for the Site named in the Site Details Section of this form.

Signature of Owner, Remedial Party, or Designated Representative Rendering Certification

#### IC/EC CERTIFICATIONS

Box 7

# Professional Engineer Signature

I certify that all information in Boxes 4 and 5 are true. I understand that a false statement made herein is punishable as a Class "A" misdemeanor, pursuant to Section 210.45 of the Penal Law.

punishable as a Class "A" misdemeanor, pursuant to Section 210.45 of the Penal Law.

| Thomas A-Foldes PE at 2558 Homburg Tompke BURGO Ny 14218, print name print business address am certifying as a Professional Engineer for the Owner or Stamp Date

| Signature of Professional Engineer, for the Owner or Stamp Date

Signature of Professional Engineer, for the Owner or Remedial Party, Rendering Certification

(Required for PE)

# **APPENDIX A2**

SITE III-8





# Enclosure 2 NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION Site Management Periodic Review Report Notice Institutional and Engineering Controls Certification Form



31	te No. C915199H	Site Details	Box 1	
Sil	te Name Site III-8 Tecumseh Phase II	I Business Park		
Cit	e Address: 2539 Hamburg Turnpike ty/Town: Lackawanna bunty:Erie e Acreage: 5.9	Zip Code: 14218		
Re	porting Period: August 13, 2014 to Mai	rch 15, 2015		
	3		YES	NO
1.	Is the information above correct?		<b>Z</b>	
	If NO, include handwritten above or or	n a separate sheet.	-	
2.		een sold, subdivided, merged, or undergone a		×
3.	Has there been any change of use at (see 6NYCRR 375-1.11(d))?	the site during this Reporting Period		
4.	Have any federal, state, and/or local p for or at the property during this Report	ermits (e.g., building, discharge) been issued ting Period?		X
	If you answered YES to questions 2 that documentation has been previous	thru 4, include documentation or evidence busly submitted with this certification form		
5.	Is the site currently undergoing develo	pment?		$\boxtimes$
		50000000	-	
			Box 2	
				NO
5.	Is the current site use consistent with t Commercial and Industrial		Box 2	
		the use(s) listed below?	Box 2 YES	NO
	Commercial and Industrial  Are all ICs/ECs in place and functionin  IF THE ANSWER TO EITHER QU	the use(s) listed below?	Box 2 YES	NO
6. 7.	Commercial and Industrial  Are all ICs/ECs in place and functionin  IF THE ANSWER TO EITHER QUE  DO NOT COMPLETE THE F	the use(s) listed below?  Ig as designed?  JESTION 6 OR 7 IS NO, sign and date below a	Box 2 YES	NO

			Вох	2A
Has any new	Has any new information revealed that assumptions made in the Qualitative Exposure			NO
	regarding offsite contamination are no long			
If you answered YES to question 8, include documentation or evidence that documentation has been previously submitted with this certification form.				
	mptions in the Qualitative Exposure Assess ive Exposure Assessment must be certified			
	ered NO to question 9, the Periodic Revie alitative Exposure Assessment based on			
SITE NO. C915199	ЭН		Вох	3
Description	on of Institutional Controls			
Parcel 41.15-1-2	Owner Welded Tube USA, Inc.	Institutional Control		
	ryclada Tabe Sori, IIIo.	IC/EC Plan Ground Water Use Restr Soil Management Plan Landuse Restriction Site Management Plan	riction	
nstitutional Control I	Description:			
Restriction to comm Prohibition of groun Allowance for Depa	dwater use			
Description	on of Engineering Controls		Box 4	
arcel	Engineering Contro			
alcei	Cover System			
41.15-1-2 Engineering Control				

	Periodic Review Report (PRR) Certification Statements						
	I certify by checking "YES" below that:						
	<ul> <li>a) the Periodic Review report and all attachments were prepared under the direction reviewed by, the party making the certification;</li> </ul>	n of	, and				
	<ul> <li>b) to the best of my knowledge and belief, the work and conclusions described in the are in accordance with the requirements of the site remedial program, and generally engineering practices; and the information presented is accurate and compete.</li> </ul>	is c	ertification cepted				
		ES	NO				
	If this site has an IC/EC Plan (or equivalent as required in the Decision Document), for ea or Engineering control listed in Boxes 3 and/or 4, I certify by checking "YES" below that al following statements are true:	ch li of l	nstitutional he				
	<ul> <li>(a) the Institutional Control and/or Engineering Control(s) employed at this site is unthe date that the Control was put in-place, or was last approved by the Department;</li> </ul>	ncha	anged sinc				
	<ul><li>(b) nothing has occurred that would impair the ability of such Control, to protect put the environment;</li></ul>	lic l	nealth and				
	<ul> <li>(c) access to the site will continue to be provided to the Department, to evaluate the remedy, including access to evaluate the continued maintenance of this Control;</li> </ul>						
	<ul> <li>(d) nothing has occurred that would constitute a violation or failure to comply with the Management Plan for this Control; and</li> </ul>	ne S	ite				
	(e) if a financial assurance mechanism is required by the oversight document for the mechanism remains valid and sufficient for its intended purpose established in the of	e sit	e, the ment.				
	YE	S	NO				
	IF THE ANSWER TO QUESTION 2 IS NO, sign and date below and DO NOT COMPLETE THE REST OF THIS FORM. Otherwise continue.						
,	A Corrective Measures Work Plan must be submitted along with this form to address these	iss	ues.				
-	Signature of Owner, Remedial Party or Designated Representative Date	-					

#### IC CERTIFICATIONS SITE NO. C915199H

Box 6

SITE OWNER OR DESIGNATED REPRESENTATIVE SIGNATURE

I certify that all information and statements in Boxes 1,2, and 3 are true. I understand that a false statement made herein is punishable as a Class "A" misdemeanor, pursuant to Section 210.45 of the Penal Law.

I Robert Remedial Party at 2537 Houburg Turn Pike, print name print business address

am certifying as Owner (Owner or Remedial Party)

For the Site named in the Site Details Section of this form.

Signature of Owner, Remedial Party, or Designated Representative Rendering Certification

#### IC/EC CERTIFICATIONS

Box 7

## Professional Engineer Signature

I certify that all information in Boxes 4 and 5 are true. I understand that a false statement made herein is punishable as a Class "A" misdemeanor, pursuant to Section 210.45 of the Penal Law.

print name print business address

am certifying as a Professional Engineer for the Owner or Remedial Party)

Signature of Professional Engineer, for the Owner or Remedial Party, Rendering Certification (Required for PE)

# **APPENDIX B**

SITE PHOTO LOG





Project No.: **Client Name: Site Location:** 

Welded Tube USA

Photo No. **Date** 

> 1 03/27/15

**Direction Photo Taken:** 

Northeast

Description:

Infiltration Basin on south side of building.



Welded Tube - Lackawanna NY Phase III-7/8 Bus Park

Photo No. Date 2 03/27/15

**Direction Photo Taken:** 

Northwest

Description:

Infiltration Basin on south side of building.





**Client Name: Site Location:**  Project No.:

Welded Tube USA

Photo No. **Date** 

3

03/27/15

**Direction Photo Taken:** 

North

Description:

Laydown yard behind building



Welded Tube - Lackawanna NY Phase III-7/8 Bus Park

Photo No. Date

4

03/27/15

**Direction Photo Taken:** 

West

Description:

Laydown yard behind building





**Direction Photo Taken:** 

East

**Description:** Back of Building

# **PHOTOGRAPHIC LOG**

Client Name:

Welded Tube USA

Welded Tube - Lackawanna NY Phase III-7/8 Bus Park

Photo No.

Date

5 03/27/15



Prepared By: \_\_\_\_\_ RLD



Project No.: **Client Name: Site Location:** 

Welded Tube USA

Welded Tube - Lackawanna NY Phase III-7/8 Bus Park

Photo No. Date 6 03/27/15

**Direction Photo Taken:** 

North

Description:

Expansion parcel



Photo No. Date 03/27/15

**Direction Photo Taken:** 

West

Description:

Exspansion parcel





Project No.: **Client Name: Site Location:** 

Welded Tube USA

Welded Tube - Lackawanna NY Phase III-7/8 Bus Park

Photo No. **Date** 8 03/27/15

**Direction Photo Taken:** 

Southeast

Description:

Building



Photo No. Date 9 03/27/15

**Direction Photo Taken:** 

South

Description:

Building





Project No.: **Client Name: Site Location:** 

Welded Tube USA

**Date** 

10

Photo No.

03/27/15

**Direction Photo Taken:** 

South

Description:

Front of building



Photo No. Date

11

03/27/15

**Direction Photo Taken:** 

Southeast

Description:

Infiltration Basin east of building.





Project No.: **Client Name: Site Location:** 

Welded Tube USA

**Date** 

12

Photo No.

03/27/15

**Direction Photo Taken:** 

South

Description:

Berm east of building.



Welded Tube - Lackawanna NY Phase III-7/8 Bus Park

Photo No. Date

> 13 03/27/15

**Direction Photo Taken:** 

Southeast

**Description:** 

Parking lot east of building.





**Client Name:** 

**Site Location:** 

Project No.:

Welded Tube USA

Photo No. **Date** 

14

03/27/15

**Direction Photo Taken:** 

South

Description:

Transformer pad area.



Welded Tube - Lackawanna NY Phase III-7/8 Bus Park

Photo No.

Date

15

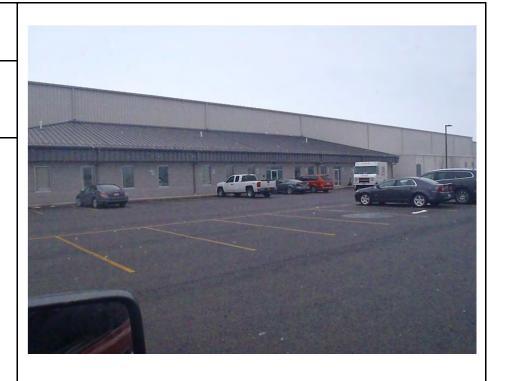
03/27/15

**Direction Photo Taken:** 

West/Northwest

**Description:** 

Office



# **APPENDIX C**

GROUNDWATER MONITORING DATA



#### Strong Advocates, Effective Solutions, Integrated Implementation



April 17, 2013

Mr. Maurice F. Moore Engineering Geologist I New York State Department of Environmental Conservation Division of Environmental Remediation 270 Michigan Ave Buffalo, New York 14203

Re: Business Parks III-7 and III-8

BCP Sites C915199G & C915199H

Lackawanna, New York

Supplemental Groundwater Monitoring

Dear Mr. Moore:

Per our recent discussions, Turnkey Environmental Restoration (Turnkey) has prepared this letter report to convey the findings of a round of supplemental groundwater monitoring at wells MWN-10 and MWN-61A, which serve to characterize overburden groundwater on the Tecumseh Business Parks III-7 and III-8 (Figure 1).

#### **BACKGROUND**

During the RI groundwater samples were collected from monitoring wells MWN-61A (installed by Turnkey) and MWN-10 (existing on site monitoring well). Groundwater samples collected from these wells were analyzed for NYSDEC Spills Technology and Remediation Series (STARS) VOCs; Target Compound List (TCL) SVOCs (base-neutral fraction) and constituent of potential concern COPC metals (arsenic, cadmium, chromium, lead, mercury, and cyanide). Of the parameters sampled VOCs (toluene) and SVOCs exceeded NYSDEC groundwater quality standards (GWQS) at MWN-61A.

#### **GROUNDWATER SAMPLING**

On February 26th, 2013 Turnkey personnel collected groundwater samples from monitoring wells MWN-10 and MWN-61A. Samples were collected using low flow sampling protocol and submitted under chain of custody command to Test America Laboratories, Inc. located in Amherst, NY. Samples were analyzed for TCL VOCs via United States Environmental Protection Agency (USEPA) Method 8260 and TCL SVOCs via Method 8270. Field data sheets are included in Attachment 1.

Mr. Maurice Moore April 11, 2013 NYSDEC Page 2 of 2

#### **ANALYTICAL RESULTS**

Analytical results are summarized on Table 1 along with NYSDEC Class GA Groundwater Quality Standards and Guidance Values (GWQSGVs); the complete laboratory analytical data package for this event is presented as Attachment 2. For comparison purposes the RI groundwater sample data have been included as well. As indicated on Table 1, MWN-10 continues to exhibit non-detectable concentrations of VOCs and SVOCs. In addition, parameter concentrations have significantly dropped in MWN-61A since the 2010 RI, with only naphthalene and nitrobenzene reported at levels slightly above their respective standards.

#### **CONCLUSIONS**

Based on these analytical results, Turnkey does not believe that post-remedial groundwater monitoring on the subject subparcels is warranted. With the Department's permission we will request that the property owner properly decommission the wells to prevent interference with yard operations that will service the pending manufacturing facility.

Please contact us if you have any questions.

Sincerely,

TurnKey Environmental Restoration, LLC

Thomas H. Forbes, P.E.

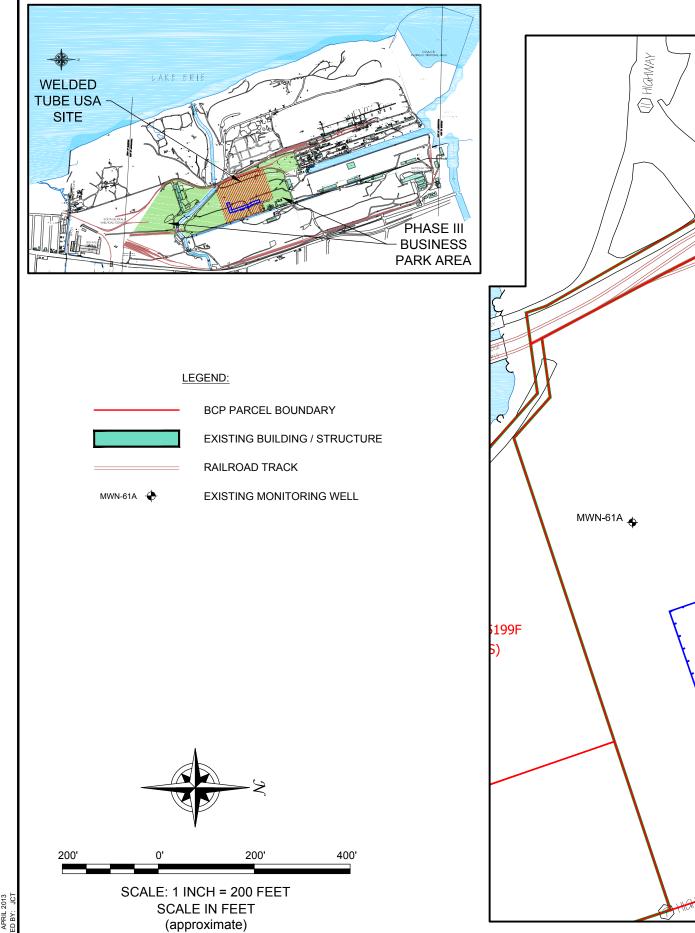
Principal Engineer

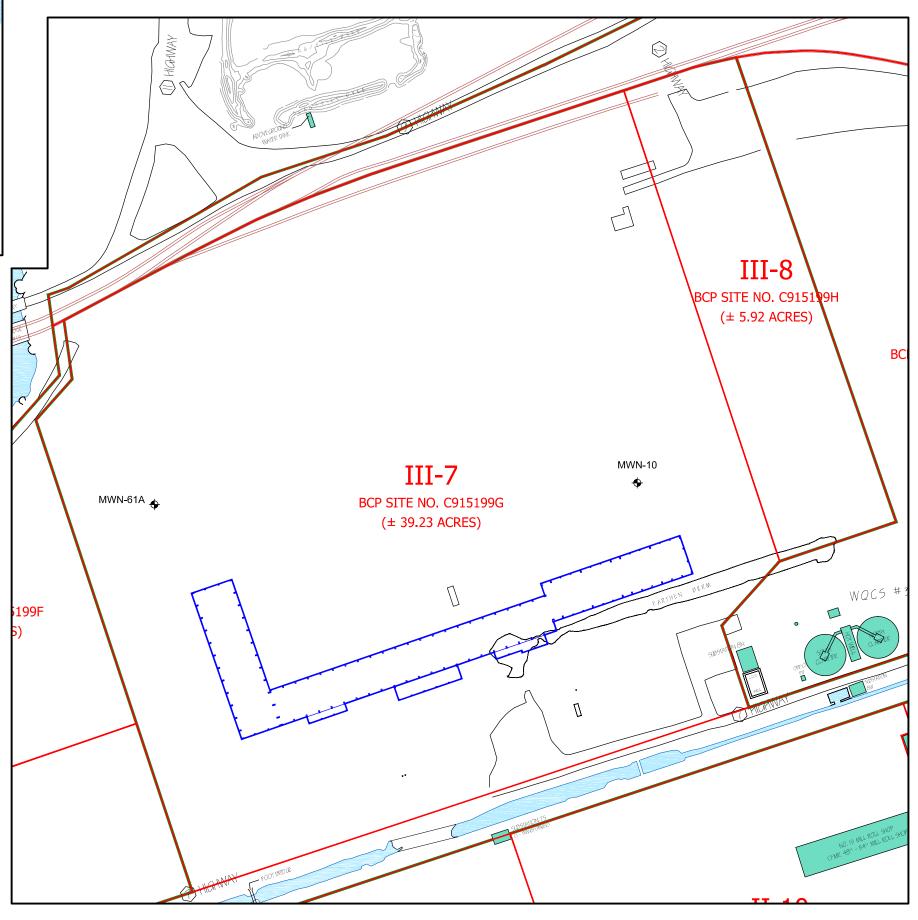
Enc.

ec: M. Forcucci (NYSDOH)

# **FIGURES**







SUPPLEMENTAL GROUNDWATER MONITORING WELDED TUBE USA

WELDED TUBE USA BCP SITES C915199G & C915199H TECUMSEH REDEVELOPMENT INC. LACKAWANNA, NEW YORK JOB NO.: 0092-012-201

FIGURE 1

# **TABLES**



#### TABLE 1

# SUMMARY OF GROUNDWATER ANALYTICAL RESULTS 1,2,3

#### Supplemental groundwater monitoring Event **Phase III Business Park Area-Welded Tube Parcel** Tecumseh Redevelopment Inc. Lackawanna, New York

			S	AMPLE I	OCATIO	N				
Parameter		N-10 4/09		I-61A 1/10		N-10 6/13		<b>I-61A</b> 6/13	GWQS ⁴	
Field Measurements 5:										
Sample No.	Initial	Final	Initial	Final	Initial	Final	Initial	Final		
pH (units)	10.00	10.00	7.67	7.65	10.28	10.29	7.59	7.60	6.5 - 8.5	
Temperature (°C)	10.4	10.6	9.5	9.4	10.4	9.9	9.90	9.70	NA	
Sp. Conductance (mS)	1873	1869	625.9	623.8	1917	1927	679.9	682.7	NA	
Turbidity (NTU)	3.44	2.88	21	11.2	4.57	5.39	4.54	2.33	NA	
DO (ppm)	1.35	1.42			2.21	2.26	1.80	1.81	NA	
Eh (mV)	-191	-195	-145	-136	-56	-73	6	28	NA	
Volatile Organic Compounds (ug	/L):					•	•			
Benzene	N	ND		D	ND		0.9 J		1	
Toluene	N	ID	6 D,J,NJ		N	ID	ND		5	
Semi-Volatile Organic Compound	s (ug/L):									
2,4-Dimethylphenol	NA		N	IA	N	ID	0.67 J		50	
Acenaphthene	N	ID	18 D,J		ND		11		20*	
Acenaphthylene	N	ID	18	D,J	ND		3.8 J			
Anthracene	N	ID	7.2	D,J	N	ID	1.5	9 J	50*	
Benzo(a)anthracene	N	ID	2 [	D,J	ND		N	ID	0.002*	
Biphenyl	N	ID	13	D,J	N	ID	3.	8 J	5	
Carbazole	N	ID	37	' D	N	ID	0.	5 J		
Dibenzofuran	N	ID	39	D,J	N	ID	1	3		
Di-n-butyl phthalate	0.42	2 BJ	N	D	N	ID	N	ID	50	
Fluoranthene	N	ID	12	D,J	N	ID	3.	3 J	50*	
Fluorene	N	ID	12	D,J	N	ID	1	2	50*	
2-Methylnaphthalene	N	ID	37	' D	N	ID	4	.9		
Naphthalene	N	ID	29	0 D	N	ID	2	25	10*	
Nitrobenzene	N	IA	N	IA	N	ID	0.4	9 J	0.4	
Phenanthrene	N	ID	62	2 D	N	ID	1	7	50*	
Pyrene	N	ID	7.4	D,J	N	ID	2.	2 J	50*	

- Only those compounds detected above the method detection limit at a minimum of one sample location are reported in this table.
   Shaded and bolded values represent exceedances of the GWQS/GV.

  BOLD
- 3. For summary purposes only detected parameters are shown on this table.
- 4. NYSDEC Class "GA" Groundwater Quality Standards (GWQS) as per 6 NYCRR Part 703.
- 5. Field measurements were collected immediately before and after groundwater sample collection.
- 6. "J" = Estimated Value
- 7. " ND " indicates parameter was not detected above laboratory reporting limit and is reported herein as not detected (ND).
- 8. " NA " = monitoring well not sampled for this analyte.
- 9. " \* " = The Guidance Value was used where a Standard has not been established.

# **ATTACHMENT 1**

FIELD DATA SHEETS





# **EQUIPMENT CALIBRATION LOG**

Project Name: Supple Project No.:		Sul	GWM		Date:	1/27/13		
	ube/-	Teun	ah		Instrume	، nt Source:	Јвм Г	Rental
METER TYPE	UNITS	TIME	MAKE/MODEL	SERIAL NUMBER	CAL. BY	STANDARD	POST CAL. READING	SETTINGS
pH meter	units	0930	Myron L Company Ultra Meter 6P	6213516 📉	TAB	4.00 7.00 10.01	4.00 7.08 10.04	7.0
Turbidity meter	NTU	6930	Hach 2100P Turbidimeter	06120C020523 ☐ 07110C026405 ☑	TAB	< 0.4 20 100 800	6.35 20.9 99.1 792	10.0 0.4 20 100
Sp. Cond. meter	uS mS	693	Myron L Company Ultra Meter 6P	6213516 <b>(2)</b>	TAB	<u>1413</u> ms@25℃	1413	1413
☐ PID	ppm		MinRAE 2000	•		open air zero		MIBK response
Dissolved Oxygen	ppm	0930	HACH Model HQ30d	0807000023281	TAS	ppm Iso. Gas	Stope 88.7	factor = 1.0  PAS3
☐ Particulate meter	mg/m³					zero air		
Oxygen	%					open air		
Hydrogen sulfide	ppm					open air	1	44
☐ Carbon monoxide	ppm					open air		
LEL	%					open air	···	
Radiation Meter	uR/H					background area	·····	<del></del>
						<u> </u>		
ADDITIONAL REMARKS:								
PREPARED BY: The Equipment Calibration Log	)			DATE: 2 (2.7-/	ا ا		14	



# **GROUNDWATER FIELD FORM**

Project N					,		Date:	2/26	/12	
Location:	Welcus	Tube		Projec	ot No.:		Field T	eam:	4 IS	_
Well	No Will	W-1017	<u> </u>		1.1.	<del></del>				- -
	Depth (fbTOR);		Diameter		411		ate / Time: 2	126/13	1115	_]
	atic) (fbTOR):	<del></del>	Water Col	<u> </u>	9.94				67	
	pth (fbTOR):	8.36 18.30		Volume (gal):	6.49	Purpose:	☐ Developme		ple 🐧 Purge & Sample	]
TOTAL DE	<del></del>	T'	1 otal Volu	me Purged (gal	): 5.0	Purge Met	lhod: Low	Flow		
Time	Water Level (fbTOR)	Acc. Volume (gallons)	pH (units)	Temp. (deg. C)	SC (uS)	Turbidity (NTU)	DO (mg/L)	ORP (mV)	Appearance & Odor	
11.02	o Initial	20.25	9.91	10.4	1934	47.7	2.75	-12	St Turbis musty	65-
11.65	18.67	1.0	9.59	10.6	19115	27.1	2.94	-35-	"sala odr	
1107	2867	11.5	10.31	10.6	1912	12.4	2.31	-37	11	1
1109	38.67	2.0	10,28	10.6	1911	8.54	2.53	-78		-
1112	18.67	3.6	10.28	10.5	1901				11 Cler	4
	5		10.20	10.5		6.27	2.11	-63	" clay	1
	8	<del> </del>	<del></del>		<del></del>	<del> </del>				]
l	7	<del> </del>	<del>                                     </del>	<del> </del>		<del> </del>				
·	8	·			<del></del>	<u> </u>				
<b></b>			ļ			<u> </u>				
	9			<u> </u>						
<u> </u>	10		<u> </u>							
Sample	Information:	•						<u> </u>	- <b>L</b>	
1115	518.67	4.0	10.28	10.4	1917	4.57	2.21	Τ	11	
1120	528.60	5.0	10.29	9 9	1927	5.37	2.26	-56	11	
-10		<del></del>	110	1 // /	1/10/	13,87	12.64	-73	<u>                                     </u>	
			T							
Well N		1-611+	Diameter (i	nches): 7	le	Sample Da	te / Time: 2	126/13	1208	]
Product D	epth (fbTOR):		Water Colu		8,91	DTW when		9.79	7708	
DTW (stat	tic) (fbTOR):	1.72	One Well V		145	Purpose:	Developmen			
Total Depi	th (fbTOR):	4.63		e Purged (gal):		Purge Meth				
	Water	Acc.				Fulge Wetti	<sup>100:</sup> <u>Сви</u>	Flow		
Time	Level (fbTOR)	Volume (gallons)	pH (units)	Temp. (deg. C)	SC (uS)	Turbidity (NTU)	DO (mg/L)	ORP (mV)	Appearance & Odor	
151	o Initial	20.75	7.69	10,6	1646	21000	1.21	16	grevus Nood	
1154	19.76	0.50	7.47	9.9	762.8	129	1.38	-21	<del>                                     </del>	
1159	9.76	3.0	7.54	9,9	720.4	35. 3		5	Sh Turbis SL	moth Bu
1261	39 28	4,0	7.61	9,9	698.7	1.6	1.59		(/	
12.04	49, 77	5.0	7.62	9.2	1602		1.58	-3	cher "No+	· · ·
12.06	1317	5.5	7.51	9,9	690.3	5-22.	1.68	~ Z	11 10 6	~
12/1	Cola 1	9.)	2.0/	7,7	689,4	8.35	1.80	6	11 1/2 0	Sur
191	7 700									
	1									
	8			!		-				
	8							••		
	10									
Sample	Information:						<u>.                                    </u>		<u> </u>	
1508	507,79	6.0	7.59	9.9	1794	11 -1.	14.6			
1750			7,60	9.7	91111	4.54	1.40	6	le	,
12.16	529,26	/		/ · * ·	682.7	2.33	1.87	28	11	
1216	529,76	6.5	7161							
1216 REMARA		6.5	71617						lization Criteria	
REMARK		6.5	71017				me Calculation	Parame	ter Criteria	
REMARK		C.5			-	Dia	ım. Vol. (g/ft)	Parame pH	ter Criteria ± 0.1 unit	
REMARK		C.55				Dia 1	am. Vol. (g/ft) " 0.041	Parame pH SC	ter Criteria ± 0.1 unit ± 3%	
REMARK		C.8				Dia	m. Vol. (g/ft) " 0.041 " 0.163	Paramei pH SC Turbidii	ter Criteria  ± 0.1 unit  ± 3%  ty ± 10%	
	<b>(</b> S:			too of riser		Dia 1 2 4	m. Vol. (g/ft) " 0.041 " 0.163 " 0.653	Paramet pH SC Turbidit	ter Criteria  ± 0.1 unit  ± 3%  ty ± 10%  ± 0.3 mg/L	
				top of riser.		Dia	m. Vol. (g/ft) " 0.041 " 0.163 " 0.653	Paramei pH SC Turbidii	ter Criteria  ± 0.1 unit  ± 3%  ty ± 10%	

Groundwater Fleld Form GWFF - TK PREPARED BY:

TAI

# **ATTACHMENT 2**

TEST AMERICA LABORATORY DATA PACKAGE



THE LEADER IN ENVIRONMENTAL TESTING

# **ANALYTICAL REPORT**

TestAmerica Laboratories, Inc.

TestAmerica Buffalo 10 Hazelwood Drive Amherst, NY 14228-2298 Tel: (716)691-2600

TestAmerica Job ID: 480-33634-1 Client Project/Site: Tecumseh

#### For:

Turnkey Environmental Restoration, LLC 2558 Hamburg Turnpike Suite 300 Lackawanna, New York 14218

Attn: Mr. Tom Forbes

Authorized for release by: 3/14/2013 9:53:01 AM

Brian Fischer
Project Manager II
brian.fischer@testamericainc.com

.....LINKS .....

Review your project results through

Total Access

**Have a Question?** 



Visit us at: www.testamericainc.com The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Client: Turnkey Environmental Restoration, LLC Project/Site: Tecumseh

TestAmerica Job ID: 480-33634-1

# **Table of Contents**

Cover Page	1
Table of Contents	2
Definitions/Glossary	3
Case Narrative	
Client Sample Results	5
Lab Chronicle	11
Certification Summary	12
Method Summary	13
Sample Summary	14
Receipt Checklists	15
Chain of Custody	16

### **Definitions/Glossary**

Client: Turnkey Environmental Restoration, LLC

Project/Site: Tecumseh

TestAmerica Job ID: 480-33634-1

#### **Qualifiers**

#### **GC/MS VOA**

Qualifier Description

J Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

#### GC/MS Semi VOA

Qualifier	Qualifier	Description
Qualifier	Qualifier	Description

J Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

#### **Glossary**

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity

MDA Minimum detectable activity

EDL Estimated Detection Limit

MDC Minimum detectable concentration

MDL Method Detection Limit

MDL Method Detection Limit
ML Minimum Level (Dioxin)

ND Not detected at the reporting limit (or MDL or EDL if shown)

PQL Practical Quantitation Limit

QC Quality Control
RER Relative error ratio

RL Reporting Limit or Requested Limit (Radiochemistry)

RPD Relative Percent Difference, a measure of the relative difference between two points

TEF Toxicity Equivalent Factor (Dioxin)
TEQ Toxicity Equivalent Quotient (Dioxin)

TestAmerica Buffalo

#### **Case Narrative**

Client: Turnkey Environmental Restoration, LLC

Project/Site: Tecumseh

Job ID: 480-33634-1

Laboratory: TestAmerica Buffalo

Narrative

Job Narrative 480-33634-1

#### Receipt

The samples were received on 2/28/2013 12:25 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 1.8° C.

#### GC/MS VOA

No analytical or quality issues were noted.

#### GC/MS Semi VOA

No analytical or quality issues were noted.

#### **Organic Prep**

No analytical or quality issues were noted.

TestAmerica Job ID: 480-33634-1

Client: Turnkey Environmental Restoration, LLC

Project/Site: Tecumseh

TestAmerica Job ID: 480-33634-1

Lab Sample ID: 480-33634-1

Matrix: Water

Client Sample ID: MWN-10A Date Collected: 02/26/13 11:15

Date Received: 02/27/13 12:25

vvater

Analyte	Result Qualifier	RL	MDL		D	Prepared	Analyzed	Dil Fa
1,1,1-Trichloroethane	ND	1.0		ug/L			03/04/13 18:28	
1,1,2,2-Tetrachloroethane	ND	1.0	0.21	ug/L			03/04/13 18:28	
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	1.0	0.31	ug/L			03/04/13 18:28	
1,1,2-Trichloroethane	ND	1.0	0.23	ug/L			03/04/13 18:28	
1,1-Dichloroethane	ND	1.0	0.38	ug/L			03/04/13 18:28	
1,1-Dichloroethene	ND	1.0	0.29	ug/L			03/04/13 18:28	
1,2,4-Trichlorobenzene	ND	1.0	0.41	•			03/04/13 18:28	
1,2-Dibromo-3-Chloropropane	ND	1.0	0.39				03/04/13 18:28	
1,2-Dibromoethane	ND	1.0	0.73	ug/L			03/04/13 18:28	
1,2-Dichlorobenzene	ND	1.0	0.79	ug/L			03/04/13 18:28	
1,2-Dichloroethane	ND	1.0	0.21	ug/L			03/04/13 18:28	
1,2-Dichloropropane	ND	1.0	0.72	ug/L			03/04/13 18:28	
1,3-Dichlorobenzene	ND	1.0	0.78	ug/L			03/04/13 18:28	
1,4-Dichlorobenzene	ND	1.0	0.84	ug/L			03/04/13 18:28	
2-Butanone (MEK)	ND	10	1.3	ug/L			03/04/13 18:28	
2-Hexanone	ND	5.0	1.2	ug/L			03/04/13 18:28	
4-Methyl-2-pentanone (MIBK)	ND	5.0	2.1	ug/L			03/04/13 18:28	
Acetone	ND	10	3.0	ug/L			03/04/13 18:28	
Benzene	ND	1.0	0.41	ug/L			03/04/13 18:28	
Bromodichloromethane	ND	1.0	0.39	ug/L			03/04/13 18:28	
Bromoform	ND	1.0	0.26	ug/L			03/04/13 18:28	
Bromomethane	ND	1.0	0.69	ug/L			03/04/13 18:28	
Carbon disulfide	ND	1.0	0.19	ug/L			03/04/13 18:28	
Carbon tetrachloride	ND	1.0	0.27	ug/L			03/04/13 18:28	
Chlorobenzene	ND	1.0	0.75	ug/L			03/04/13 18:28	
Chloroethane	ND	1.0	0.32	ug/L			03/04/13 18:28	
Chloroform	ND	1.0	0.34	ug/L			03/04/13 18:28	
Chloromethane	ND	1.0	0.35	ug/L			03/04/13 18:28	
cis-1,2-Dichloroethene	ND	1.0	0.81	ug/L			03/04/13 18:28	
cis-1,3-Dichloropropene	ND	1.0	0.36	ug/L			03/04/13 18:28	
Cyclohexane	ND	1.0	0.18	ug/L			03/04/13 18:28	
Dibromochloromethane	ND	1.0	0.32	ug/L			03/04/13 18:28	
Dichlorodifluoromethane	ND	1.0	0.68	ug/L			03/04/13 18:28	
Ethylbenzene	ND	1.0	0.74	ug/L			03/04/13 18:28	
sopropylbenzene	ND	1.0	0.79	ug/L			03/04/13 18:28	
Methyl acetate	ND	1.0	0.50	ug/L			03/04/13 18:28	
Methyl tert-butyl ether	ND	1.0	0.16	ug/L			03/04/13 18:28	
Methylcyclohexane	ND	1.0	0.16	ug/L			03/04/13 18:28	
Methylene Chloride	ND	1.0	0.44	ug/L			03/04/13 18:28	
Styrene	ND	1.0	0.73	ug/L			03/04/13 18:28	
Tetrachloroethene	ND	1.0	0.36	ug/L			03/04/13 18:28	
Toluene	ND	1.0	0.51	ug/L			03/04/13 18:28	
rans-1,2-Dichloroethene	ND	1.0	0.90	ug/L			03/04/13 18:28	
rans-1,3-Dichloropropene	ND	1.0	0.37	ug/L			03/04/13 18:28	
Trichloroethene	ND	1.0	0.46	ug/L			03/04/13 18:28	
Trichlorofluoromethane	ND	1.0	0.88	ug/L			03/04/13 18:28	
Vinyl chloride	ND	1.0		ug/L			03/04/13 18:28	
Xylenes, Total	ND	2.0	0.66	-			03/04/13 18:28	

Client: Turnkey Environmental Restoration, LLC

Project/Site: Tecumseh

Lab Sample ID: 480-33634-1

TestAmerica Job ID: 480-33634-1

oampic 15. 400-00004-1

Matrix: Water

Client Sample ID: MWN-10A

Date Collected: 02/26/13 11:15 Date Received: 02/27/13 12:25

	Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
	1,2-Dichloroethane-d4 (Surr)	104		66 - 137		03/04/13 18:28	1
ı	4-Bromofluorobenzene (Surr)	104		73 - 120		03/04/13 18:28	1
l	Toluene-d8 (Surr)	101		71 - 126		03/04/13 18:28	1

Mathod: 8270C - Semivolatile Organic Compounds (GCMS)	101uene-a8 (Surr) - -	101	71 - 120					03/04/13 18:28	1
2.4.5-Trichirophenol         ND         4.7         0.45         ugl.         0302/13 0734         0308/13 1650         1           2.4-Dichirophenol         ND         4.7         0.58         ugl.         0302/13 0734         0308/13 1650         1           2.4-Dichirophenol         ND         4.7         0.47         ugl.         0302/13 0734         0308/13 1650         1           2.4-Dinitrophenol         ND         4.7         0.42         ugl.         0302/13 0734         0308/13 1650         1           2.4-Dinitrophenol         ND         4.7         0.42         ugl.         0302/13 0734         0308/13 1650         1           2.4-Dinitrophenol         ND         4.7         0.43         ugl.         0302/13 0734         0308/13 1650         1           2.Chlorrophenol         ND         4.7         0.43         ugl.         0302/13 0734         0308/13 1650         1           2.Chlorrophenol         ND         4.7         0.53         ugl.         0302/13 0734         0308/13 1650         1           2.Chlorrophenol         ND         4.7         0.38         ugl.         0302/13 0734         0308/13 1650         1           2.Microphenol         ND         4.7		• •	•	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2.4Friinfortengement         ND         4.7         0.88         uyl.         0302/13 07-34         0308/13 16:50         1           2.4-Dimetrinyphenol         ND         4.7         0.47         uyl.         0302/13 07-34         0308/13 16:50         1           2.4-Dimitrophenol         ND         4.7         0.42         uyl.         0302/13 07-34         0308/13 16:50         1           2.4-Dimitrophenol         ND         4.7         0.42         uyl.         0302/13 07-34         0308/13 16:50         1           2.5-Dimitrophenol         ND         4.7         0.43         uyl.         0302/13 07-34         0308/13 16:50         1           2.5-Dimitrophenol         ND         4.7         0.43         uyl.         0302/13 07-34         0308/13 16:50         1           2.5-Dimitrophenol         ND         4.7         0.50         uyl.         0302/13 07-34         0308/13 16:50         1           2.4-Dimitrophenol         ND         4.7         0.50         uyl.         0302/13 07-34         0308/13 16:50         1           2.4-Dimitrophenol         ND         4.7         0.45         uyl.         0302/13 07-34         0308/13 16:50         1           2.4-Dimitrophenol						<u>-</u>			
2.4-Okinderopinen         ND         4.7         0.48         ug/L         030/213 07:34         030/813 16:50         1           2.4-Dimitriphenel         ND         4.7         0.47         ug/L         030/213 07:34         030/813 16:50         1           2.4-Dimitrobleme         ND         4.7         0.42         ug/L         030/213 07:34         030/813 16:50         1           2.4-Dimitrobluene         ND         4.7         0.42         ug/L         030/213 07:34         030/813 16:50         1           2-Chibronsphthalene         ND         4.7         0.43         ug/L         030/213 07:34         030/813 16:50         1           2-Chibrorphand         ND         4.7         0.57         ug/L         030/213 07:34         030/813 16:50         1           2-Methylphand         ND         4.7         0.57         ug/L         030/213 07:34         030/813 16:50         1           2-Miterphilane         ND         4.7         0.45         ug/L         030/213 07:34         030/813 16:50         1           2-Miterphilane         ND         4.7         0.45         ug/L         030/213 07:34         030/813 16:50         1           3-Miterphilane         ND         4.	•								1
2.4-Dimethylphenol         ND         4,7         0,47         uglt         0302/13 07:34         0308/13 16:50         1           2.4-Dinitrophenol         ND         9,4         2,1 uglt         0302/13 07:34         0308/13 16:50         1           2.6-Dinitrodluene         ND         4,7         0,42 uglt         0302/13 07:34         0308/13 16:50         1           2.6-Dinitrodluene         ND         4,7         0,33 uglt         0302/13 07:34         0308/13 16:50         1           2.Chiforrophinel         ND         4,7         0,43 uglt         0302/13 07:34         0308/13 16:50         1           2.Methylriphenol         ND         4,7         0,57 uglt         0302/13 07:34         0308/13 16:50         1           2.Mitorphanol         ND         4,7         0,57 uglt         0302/13 07:34         0308/13 16:50         1           2.Mitorphanol         ND         4,7         0,58 uglt         0302/13 07:34         0308/13 16:50         1           2.Mitorphinol         ND         4,7         0,45 uglt         0302/13 07:34         0308/13 16:50         1           3.3-Dichlorobenzidine         ND         4,7         0,45 uglt         0302/13 07:34         0308/13 16:50         1 <t< td=""><td>·</td><td></td><td></td><td></td><td>•</td><td></td><td></td><td></td><td></td></t<>	·				•				
2.4 Dinitrophenol         ND         9.4         2.1         Ingl.         0.3002/13 07.34         0.308/13 16.50         1           2.4 Dinitrophenol         ND         4.7         0.33         Iufl.         0.3002/13 07.34         0.308/13 16.50         1           2. Chlorinophthalene         ND         4.7         0.53         Iufl.         0.3002/13 07.34         0.308/13 16.50         1           2. Chlorophenol         ND         4.7         0.50         Iufl.         0.3002/13 07.34         0.308/13 16.50         1           2. Methylphanol         ND         4.7         0.50         Iufl.         0.3002/13 07.34         0.308/13 16.50         1           2. Mitrophinol         ND         4.7         0.50         Iufl.         0.3002/13 07.34         0.308/13 16.50         1           2. Nitrophinol         ND         4.7         0.45         Iufl.         0.3002/13 07.34         0.308/13 16.50         1           3. Nitrophinol         ND         4.7         0.45         Iufl.         0.3002/13 07.34         0.308/13 16.50         1           3. Nitrophinol         ND         4.7         0.34         Iufl.         0.3002/13 07.34         0.308/13 16.50         1           4. Schillorio Zemeth									
2.4 Dinitrotoulene         ND         4.7         0.42         light         0.302/13 07:34         0.308/13 16:50         1           2.6 Dinitrotoulene         ND         4.7         0.33         light         0.302/13 07:34         0.308/13 16:50         1           2. Chiloropathrallene         ND         4.7         0.43         light         0.302/13 07:34         0.308/13 16:50         1           2. Alethrylaphthalene         ND         4.7         0.50         light         0.302/13 07:34         0.308/13 16:50         1           2. Alethrylaphthalene         ND         4.7         0.38         light         0.302/13 07:34         0.308/13 16:50         1           2. Alethrylaphenol         ND         4.7         0.45         light         0.302/13 07:34         0.308/13 16:50         1           2. Alitrophinol         ND         4.7         0.45         light         0.302/13 07:34         0.308/13 16:50         1           3.3* Dichlorobenzidine         ND         4.7         0.45         light         0.302/13 07:34         0.308/13 16:50         1           4. Bromphenyl phenyl ether         ND         4.7         0.42         light         0.302/13 07:34         0.308/13 16:50         1	· ·				-				
2,6-Dinitrotoluene         ND         4,7         0.38         ugl.         0302/13 07:34         0308/13 16:50         1           2-Chiloropaphthalene         ND         4,7         0.50         ugl.         0302/13 07:34         0308/13 16:50         1           2-Methrylapathlalene         ND         4,7         0.57         ugl.         0302/13 07:34         0308/13 16:50         1           2-Methrylapathlalene         ND         4,7         0.57         ugl.         0302/13 07:34         0308/13 16:50         1           2-Mitropalline         ND         4,4         0.40         ugl.         0302/13 07:34         0308/13 16:50         1           2-Nitropalline         ND         4,7         0.45         ugl.         0302/13 07:34         0308/13 16:50         1           3-Nitropalline         ND         4,7         0.45         ugl.         0302/13 07:34         0308/13 16:50         1           4-G-Dirotopartidene         ND         4,7         0.45         ugl.         0302/13 07:34         0308/13 16:50         1           4-G-Dirotopartidene         ND         4,7         0.42         ugl.         0302/13 07:34         0308/13 16:50         1           4-G-Dirotopartilyphenol         <					-				
2-Chioropphenol         ND         4.7         0.43         ugl.         03/02/13/07:34         03/08/13/16:50         1           2-Chioropphenol         ND         4.7         0.57         ugl.         03/02/13/07:34         03/08/13/16:50         1           2-Methythphenol         ND         4.7         0.57         ugl.         03/02/13/07:34         03/08/13/16:50         1           2-Methythphenol         ND         4.7         0.45         ugl.         03/02/13/07:34         03/08/13/16:50         1           2-Nitrophenol         ND         4.7         0.45         ugl.         03/02/13/07:34         03/08/13/16:50         1           3-3-Dictiorbenzidine         ND         4.7         0.38         ugl.         03/02/13/07:34         03/08/13/16:50         1           4-B-Dinitro-2-methylphenol         ND         4.7         0.42         ugl.         03/02/13/07:34         03/08/13/16:50         1           4-Bromophenyl phenyl ether         ND         4.7         0.42         ugl.         03/02/13/07:34         03/08/13/16:50         1           4-Chioropa-methylphenol         ND         4.7         0.42         ugl.         03/02/13/07:34         03/08/13/16:50         1           4-Chiorop									
2-Chlorophenol         ND         4.7         0.50         g/L         0.302/13 07:34         0.308/13 16:50         1           2-Methylipaphthalene         ND         4.7         0.35         ugl.         0.302/13 07:34         0.308/13 16:50         1           2-Mitrophenol         ND         4.7         0.38         ugl.         0.302/13 07:34         0.308/13 16:50         1           2-Nitrophenol         ND         4.7         0.45         ugl.         0.302/13 07:34         0.308/13 16:50         1           3-Nitrophenol         ND         4.7         0.45         ugl.         0.302/13 07:34         0.308/13 16:50         1           3-Nitrophenol         ND         4.7         0.45         ugl.         0.302/13 07:34         0.308/13 16:50         1           4-Binitro-2-methylphenol         ND         4.7         0.42         ugl.         0.302/13 07:34         0.308/13 16:50         1           4-Binomophenyl phenyl ether         ND         4.7         0.42         ugl.         0.302/13 07:34         0.308/13 16:50         1           4-Chlorophenyl phenyl ether         ND         4.7         0.42         ugl.         0.302/13 07:34         0.308/13 16:50         1           4-Mitrophyl ph	,								
2-Methylnaphthalene         ND         4.7         0.57         vg/L         03/02/13 07:34         03/08/13 16:50         1           2-Methylphanol         ND         4.7         0.38         ug/L         03/02/13 07:34         03/08/13 16:50         1           2-Nitrophinol         ND         4.7         0.49         ug/L         03/02/13 07:34         03/08/13 16:50         1           3-3-Dichlorobenzidine         ND         4.7         0.38         ug/L         03/02/13 07:34         03/08/13 16:50         1           4-Bromphenyl phenyl ether         ND         4.7         0.38         ug/L         03/02/13 07:34         03/08/13 16:50         1           4-Bromphenyl phenyl ether         ND         4.7         0.42         ug/L         03/02/13 07:34         03/08/13 16:50         1           4-Chloro-amblyphenyl ether         ND         4.7         0.42         ug/L         03/02/13 07:34         03/08/13 16:50         1           4-Chloro-amblyphenyl ether         ND         4.7         0.58         ug/L         03/02/13 07:34         03/08/13 16:50         1           4-Chloro-amblyphenyl ether         ND         4.7         0.33         ug/L         03/02/13 07:34         03/08/13 16:50         1	•								
2-Methylphenol         ND         4.7         0.38         ug/L         03/02/13 07:34         03/08/13 16:50         1           2-Nitropalmine         ND         9.4         0.40         ug/L         03/02/13 07:34         03/08/13 16:50         1           2-Nitrophenol         ND         4.7         0.38         ug/L         03/02/13 07:34         03/08/13 16:50         1           3-Nitropalmine         ND         9.4         0.45         ug/L         03/02/13 07:34         03/08/13 16:50         1           4-B-Cinitro-Zemethylphenol         ND         9.4         0.47         ug/L         03/02/13 07:34         03/08/13 16:50         1           4-B-Cinitro-Zemethylphenol         ND         4.7         0.42         ug/L         03/02/13 07:34         03/08/13 16:50         1           4-Chiloro-Zemethylphenol         ND         4.7         0.42         ug/L         03/02/13 07:34         03/08/13 16:50         1           4-Chiloro-Zemethylphenol         ND         4.7         0.43         ug/L         03/02/13 07:34         03/08/13 16:50         1           4-Chiloro-Zemethylphenol         ND         4.7         0.33         ug/L         03/02/13 07:34         03/08/13 16:50         1 <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>									
2-Nitroniline ND ND 9,4 0,40 ug/L 03/02/13 07:34 03/08/13 16:50 1 2 Nitrophenol ND 4.7 0.45 ug/L 03/02/13 07:34 03/08/13 16:50 1 3 3-0 inchrobenzidine ND 4.7 0.38 ug/L 03/02/13 07:34 03/08/13 16:50 1 3 Nitroaniline ND 9,4 0.45 ug/L 03/02/13 07:34 03/08/13 16:50 1 3 Nitroaniline ND 9,4 0.45 ug/L 03/02/13 07:34 03/08/13 16:50 1 3 Nitroaniline ND 9,4 0.45 ug/L 03/02/13 07:34 03/08/13 16:50 1 4 Nitroaniline ND 9,4 0.45 ug/L 03/02/13 07:34 03/08/13 16:50 1 4 Nitroaniline ND 9,4 0.47 0.42 ug/L 03/02/13 07:34 03/08/13 16:50 1 1 Nitroaniline ND 4.7 0.42 ug/L 03/02/13 07:34 03/08/13 16:50 1 1 Nitroaniline ND 4.7 0.56 ug/L 03/02/13 07:34 03/08/13 16:50 1 1 Nitroaniline ND 9,4 0.56 ug/L 03/02/13 07:34 03/08/13 16:50 1 1 Nitroaniline ND 9,4 0.30 ug/L 03/02/13 07:34 03/08/13 16:50 1 1 Nitroaniline ND 9,4 0.30 ug/L 03/02/13 07:34 03/08/13 16:50 1 1 Nitroaniline ND 9,4 0.30 ug/L 03/02/13 07:34 03/08/13 16:50 1 1 Nitroaniline ND 9,4 0.24 ug/L 03/02/13 07:34 03/08/13 16:50 1 1 Nitroaniline ND 9,4 0.24 ug/L 03/02/13 07:34 03/08/13 16:50 1 1 Nitroaniline ND 9,4 0.24 ug/L 03/02/13 07:34 03/08/13 16:50 1 1 Nitroaniline ND 9,4 0.24 ug/L 03/02/13 07:34 03/08/13 16:50 1 1 Nitroaniline ND 9,4 0.24 ug/L 03/02/13 07:34 03/08/13 16:50 1 1 Nitroaniline ND 9,4 0.24 ug/L 03/02/13 07:34 03/08/13 16:50 1 1 Nitroaniline ND 9,4 0.24 ug/L 03/02/13 07:34 03/08/13 16:50 1 1 Nitroaniline ND 9,4 0.24 ug/L 03/02/13 07:34 03/08/13 16:50 1 1 Nitroaniline ND 9,4 0.47 0.36 ug/L 03/02/13 07:34 03/08/13 16:50 1 1 Nitroaniline ND 9,4 0.47 0.36 ug/L 03/02/13 07:34 03/08/13 16:50 1 1 Nitroaniline ND 9,4 0.47 0.36 ug/L 03/02/13 07:34 03/08/13 16:50 1 1 Nitroaniline ND 9,4 0.47 0.36 ug/L 03/02/13 07:34 03/08/13 16:50 1 1 Nitroaniline ND 9,4 0.47 0.36 ug/L 03/02/13 07:34 03/08/13 16:50 1 1 Nitroaniline ND 9,4 0.47 0.43 ug/L 03/02/13 07:34 03/08/13 16:50 1 1 Nitroaniline ND 9,4 0.47 0.43 ug/L 03/02/13 07:34 03/08/13 16:50 1 Nitroaniline ND 9,4 0.47 0.43 ug/L 03/02/13 07:34 03/08/13 16:50 1 Nitroaniline ND 9,4 0.47 0.43 ug/L 03/02/13 07:34 03/08/13 16:50 1 Nitroan	•				-				
2-Nitrophenol ND 4,7 0,45 lg/L 0302/13 07:34 0308/13 16:50 1 3.3*Dichlorobenzidine ND 4,7 0,38 lg/L 0302/13 07:34 0308/13 16:50 1 1 3.3*Dichlorobenzidine ND 9,4 0,45 lg/L 0302/13 07:34 0308/13 16:50 1 1 4.6*Dinitro-2-methylphenol ND 9,4 2,1 lg/L 0302/13 07:34 0308/13 16:50 1 1 4.6*Dinitro-2-methylphenol ND 4,7 0,42 lg/L 0302/13 07:34 0308/13 16:50 1 1 4.5*Dinitro-2-methylphenol ND 4,7 0,42 lg/L 0302/13 07:34 0308/13 16:50 1 1 4.5*Dinitro-2-methylphenol ND 4,7 0,42 lg/L 0302/13 07:34 0308/13 16:50 1 1 4.5*Dinitro-2-methylphenol ND 4,7 0,42 lg/L 0302/13 07:34 0308/13 16:50 1 1 4.5*Dinitro-2-methylphenol ND 4,7 0,42 lg/L 0302/13 07:34 0308/13 16:50 1 1 4.5*Dinitro-2-methylphenol ND 4,7 0,56 lg/L 0302/13 07:34 0308/13 16:50 1 1 4.5*Dinitro-2-methylphenol ND 4,7 0,33 lg/L 0302/13 07:34 0308/13 16:50 1 1 4.5*Dinitro-2-methylphenol ND 9,4 0,34 lg/L 0302/13 07:34 0308/13 16:50 1 1 4.5*Dinitro-2-methylphenol ND 9,4 0,34 lg/L 0302/13 07:34 0308/13 16:50 1 1 4.5*Dinitro-2-methylphenol ND 9,4 0,34 lg/L 0302/13 07:34 0308/13 16:50 1 1 4.5*Dinitro-2-methylphenol ND 9,4 0,34 lg/L 0302/13 07:34 0308/13 16:50 1 1 4.5*Dinitro-2-methylphenol ND 9,4 0,34 lg/L 0302/13 07:34 0308/13 16:50 1 1 4.5*Dinitro-2-methylphenol ND 9,4 0,34 lg/L 0302/13 07:34 0308/13 16:50 1 1 4.5*Dinitro-2-methylphenol ND 9,4 0,3 lg/L 0302/13 07:34 0308/13 16:50 1 1 4.5*Dinitro-2-methylphenol ND 9,4 0,3 lg/L 0302/13 07:34 0308/13 16:50 1 1 4.5*Dinitro-2-methylphenol ND 9,4 0,3 lg/L 0302/13 07:34 0308/13 16:50 1 1 4.5*Dinitro-2-methylphenol ND 9,4 0,4 0,4 0,4 0,4 0,4 0,4 0,4 0,4 0,4 0	• •				_				
3.3-Dichlorobenzidine ND 4.7 0.38 ugl. 0302/13 07:34 0308/13 16:50 1 3-Nitroaniline ND 9.4 0.45 ugl. 0302/13 07:34 0308/13 16:50 1 4-G-Dinitro-Z-methylphenol ND 9.4 2.1 ugl. 0302/13 07:34 0308/13 16:50 1 4-G-Dinitro-Z-methylphenol ND 4.7 0.42 ugl. 0302/13 07:34 0308/13 16:50 1 4-Chlorophenyl phenyl ether ND 4.7 0.42 ugl. 0302/13 07:34 0308/13 16:50 1 4-Chlorophenyl phenyl ether ND 4.7 0.56 ugl. 0302/13 07:34 0308/13 16:50 1 4-Chlorophenyl phenyl ether ND 4.7 0.56 ugl. 0302/13 07:34 0308/13 16:50 1 4-Chlorophenyl phenyl ether ND 4.7 0.33 ugl. 0302/13 07:34 0308/13 16:50 1 4-Methylphenol ND 9.4 0.34 ugl. 0302/13 07:34 0308/13 16:50 1 4-Methylphenol ND 9.4 0.34 ugl. 0302/13 07:34 0308/13 16:50 1 4-Nitroaniline ND 9.4 0.24 ugl. 0302/13 07:34 0308/13 16:50 1 4-Nitrophenol ND 9.4 0.24 ugl. 0302/13 07:34 0308/13 16:50 1 4-Nitrophenol ND 4.7 0.39 ugl. 0302/13 07:34 0308/13 16:50 1 4-Cenaphthene ND 4.7 0.39 ugl. 0302/13 07:34 0308/13 16:50 1 4-Cenaphthylene ND 4.7 0.39 ugl. 0302/13 07:34 0308/13 16:50 1 4-Retaphthylene ND 4.7 0.39 ugl. 0302/13 07:34 0308/13 16:50 1 4-Retaphthylene ND 4.7 0.39 ugl. 0302/13 07:34 0308/13 16:50 1 4-Retaphthylene ND 4.7 0.39 ugl. 0302/13 07:34 0308/13 16:50 1 4-Retaphthylene ND 4.7 0.39 ugl. 0302/13 07:34 0308/13 16:50 1 4-Retaphthylene ND 4.7 0.39 ugl. 0302/13 07:34 0308/13 16:50 1 4-Retaphthylene ND 4.7 0.39 ugl. 0302/13 07:34 0308/13 16:50 1 4-Retaphthylene ND 4.7 0.39 ugl. 0302/13 07:34 0308/13 16:50 1 4-Retaphthylene ND 4.7 0.43 ugl. 0302/13 07:34 0308/13 16:50 1 4-Retaphylene ND 4.7 0.43 ugl. 0302/13 07:34 0308/13 16:50 1 4-Retaphylene ND 4.7 0.49 ugl. 0302/13 07:34 0308/13 16:50 1 4-Retaphylene ND 4.7 0.99 ugl. 0302/13 07:34 0308/13 16:50 1 4-Retaphylene ND 4.7 0.99 ugl. 0302/13 07:34 0308/13 16:50 1 4-Retaphylene ND 4.7 0.99 ugl. 0302/13 07:34 0308/13 16:50 1 4-Retaphylene ND 4.7 0.99 ugl. 0302/13 07:34 0308/13 16:50 1 4-Retaphylene ND 4.7 0.99 ugl. 0302/13 07:34 0308/13 16:50 1 4-Retaphylene ND 4.7 0.99 ugl. 0302/13 07:34 0308/13 16:50 1 4-Retaphylene ND 4.7 0.99 ugl. 0302/13 07:34									
3-Nitroaniline ND 9.4 0.45 vgl. 03/02/13 07:34 03/08/13 16:50 1 1 4.6-Dintripe-Zmethylphenol ND 9.4 2.1 vgl. 03/02/13 07:34 03/08/13 16:50 1 1 4.6-Dintripe-Zmethylphenol ND 4.7 0.42 vgl. 03/02/13 07:34 03/08/13 16:50 1 1 4.Chloros-methylphenol ND 4.7 0.42 vgl. 03/02/13 07:34 03/08/13 16:50 1 1 4.Chloros-methylphenol ND 4.7 0.56 vgl. 03/02/13 07:34 03/08/13 16:50 1 1 4.Chloros-line ND 4.7 0.56 vgl. 03/02/13 07:34 03/08/13 16:50 1 1 4.Chlorophenyl phenyl ether ND 4.7 0.33 vgl. 03/02/13 07:34 03/08/13 16:50 1 1 4.Chlorophenyl phenyl ether ND 4.7 0.33 vgl. 03/02/13 07:34 03/08/13 16:50 1 1 4.Chlorophenyl phenyl ether ND 4.7 0.34 vgl. 03/02/13 07:34 03/08/13 16:50 1 1 4.Nitroaniline ND 4.7 0.34 vgl. 03/02/13 07:34 03/08/13 16:50 1 1 4.Nitroaniline ND 4.7 0.34 vgl. 03/02/13 07:34 03/08/13 16:50 1 1 4.Nitroaniline ND 4.7 0.35 vgl. 03/02/13 07:34 03/08/13 16:50 1 1 4.Nitroaniline ND 4.7 0.30 vgl. 03/02/13 07:34 03/08/13 16:50 1 1 4.Nitroaniline ND 4.7 0.30 vgl. 03/02/13 07:34 03/08/13 16:50 1 1 4.Nitroaniline ND 4.7 0.30 vgl. 03/02/13 07:34 03/08/13 16:50 1 1 4.Nitroaniline ND 4.7 0.30 vgl. 03/02/13 07:34 03/08/13 16:50 1 1 4.Nitroaniline ND 4.7 0.30 vgl. 03/02/13 07:34 03/08/13 16:50 1 1 4.Nitroaniline ND 4.7 0.30 vgl. 03/02/13 07:34 03/08/13 16:50 1 1 4.Nitroaniline ND 4.7 0.30 vgl. 03/02/13 07:34 03/08/13 16:50 1 1 4.Nitroane ND 4.7 0.30 vgl. 03/02/13 07:34 03/08/13 16:50 1 1 4.Nitroane ND 4.7 0.30 vgl. 03/02/13 07:34 03/08/13 16:50 1 1 4.Nitroane ND 4.7 0.30 vgl. 03/02/13 07:34 03/08/13 16:50 1 1 4.Nitroane ND 4.7 0.30 vgl. 03/02/13 07:34 03/08/13 16:50 1 1 4.Nitroane ND 4.7 0.30 vgl. 03/02/13 07:34 03/08/13 16:50 1 1 4.Nitroane ND 4.7 0.30 vgl. 03/02/13 07:34 03/08/13 16:50 1 1 4.Nitroane ND 4.7 0.30 vgl. 03/02/13 07:34 03/08/13 16:50 1 1 4.Nitroane ND 4.7 0.30 vgl. 03/02/13 07:34 03/08/13 16:50 1 1 4.Nitroane ND 4.7 0.30 vgl. 03/02/13 07:34 03/08/13 16:50 1 1 4.Nitroane ND 4.7 0.30 vgl. 03/02/13 07:34 03/08/13 16:50 1 1 4.Nitroane ND 4.7 0.30 vgl. 03/02/13 07:34 03/08/13 16:50 1 1 4.Nitroane ND 4.7 0.30 vgl. 03/0	·				-				
4,6-Dinitro-2-methylphenol         ND         9,4         2,1         ug/L         03/02/13 07:34         03/08/13 16:50         1           4-Bromophenyl phenyl ether         ND         4,7         0.42         ug/L         03/02/13 07:34         03/08/13 16:50         1           4-Chloro-3-methylphenol         ND         4,7         0.62         ug/L         03/02/13 07:34         03/08/13 16:50         1           4-Chlorophenyl phenyl ether         ND         4,7         0.63         ug/L         03/02/13 07:34         03/08/13 16:50         1           4-Methylphenol         ND         4,7         0.33         ug/L         03/02/13 07:34         03/08/13 16:50         1           4-Mitrophenyl phenyl ether         ND         4,7         0.33         ug/L         03/02/13 07:34         03/08/13 16:50         1           4-Methylphenol         ND         4,7         0.39         ug/L         03/02/13 07:34         03/08/13 16:50         1           4-Nitrophenol         ND         4,7         0.39         ug/L         03/02/13 07:34         03/08/13 16:50         1           Acenaphthylene         ND         4,7         0.39         ug/L         03/02/13 07:34         03/08/13 16:50         1									
4-Bromophenyl phenyl ether         ND         4.7         0.42         ug/L         0.3/02/13 07:34         0.3/08/13 16:50         1           4-Chloro-3-methylphenol         ND         4.7         0.42         ug/L         0.3/02/13 07:34         0.3/08/13 16:50         1           4-Chlorophenyl phenyl ether         ND         4.7         0.58         ug/L         0.3/02/13 07:34         0.3/08/13 16:50         1           4-Methylphenol         ND         4.7         0.33         ug/L         0.3/02/13 07:34         0.3/08/13 16:50         1           4-Mitrophenol         ND         9.4         0.24         ug/L         0.3/02/13 07:34         0.3/08/13 16:50         1           4-Nitrophenol         ND         9.4         0.24         ug/L         0.3/02/13 07:34         0.3/08/13 16:50         1           4-Nitrophenol         ND         9.4         1.4         ug/L         0.3/02/13 07:34         0.3/08/13 16:50         1           Acetophthene         ND         4.7         0.39         ug/L         0.3/02/13 07:34         0.3/08/13 16:50         1           Acetophene         ND         4.7         0.36         ug/L         0.3/02/13 07:34         0.3/08/13 16:50         1           Atrazine<									
4-Chloro-3-methylphenol         ND         4.7         0.42         ug/L         03/02/13 07:34         03/08/13 16:50         1           4-Chloropaniline         ND         4.7         0.56         ug/L         03/02/13 07:34         03/08/13 16:50         1           4-Chlorophenyl ether         ND         4.7         0.33         ug/L         03/02/13 07:34         03/08/13 16:50         1           4-Methylphenol         ND         9.4         0.24         ug/L         03/02/13 07:34         03/08/13 16:50         1           4-Nitrophenol         ND         9.4         0.14         ug/L         03/02/13 07:34         03/08/13 16:50         1           4-Nitrophenol         ND         9.4         1.4         ug/L         03/02/13 07:34         03/08/13 16:50         1           4-Nitrophenol         ND         4.7         0.39         ug/L         03/02/13 07:34         03/08/13 16:50         1           Acenaphthene         ND         4.7         0.39         ug/L         03/02/13 07:34         03/08/13 16:50         1           Acetophenone         ND         4.7         0.51         ug/L         03/02/13 07:34         03/08/13 16:50         1           Attrazine         ND	• •				-				
4-Chloroaniline         ND         4.7         0.56         ug/L         0.30/02/13 07:34         0.30/8/13 16:50         1           4-Chlorophenyl phenyl ether         ND         4.7         0.33         ug/L         0.30/02/13 07:34         0.30/8/13 16:50         1           4-Methylphenol         ND         9.4         0.24         ug/L         0.30/02/13 07:34         0.30/8/13 16:50         1           4-Nitrophenol         ND         9.4         0.24         ug/L         0.30/02/13 07:34         0.30/8/13 16:50         1           4-Nitrophenol         ND         4.7         0.39         ug/L         0.30/02/13 07:34         0.30/8/13 16:50         1           Acenaphthylene         ND         4.7         0.39         ug/L         0.30/02/13 07:34         0.30/8/13 16:50         1           Acenaphthylene         ND         4.7         0.36         ug/L         0.30/02/13 07:34         0.30/8/13 16:50         1           Acenaphthylene         ND         4.7         0.36         ug/L         0.30/02/13 07:34         0.30/8/13 16:50         1           Acenaphthylene         ND         4.7         0.36         ug/L         0.30/02/13 07:34         0.30/8/13 16:50         1           Acenaphtylen									
4-Chlorophenyl phenyl ether         ND         4.7         0.33         ug/L         0.30/2/13 07:34         0.30/8/13 16:50         1           4-Methylphenol         ND         9.4         0.34         ug/L         0.30/02/13 07:34         0.30/8/13 16:50         1           4-Nitrophenol         ND         9.4         0.24         ug/L         0.30/02/13 07:34         0.30/8/13 16:50         1           4-Nitrophenol         ND         9.4         1.4         ug/L         0.30/02/13 07:34         0.30/8/13 16:50         1           Aceaphthylene         ND         4.7         0.39         ug/L         0.30/02/13 07:34         0.30/8/13 16:50         1           Acetophenone         ND         4.7         0.51         ug/L         0.30/02/13 07:34         0.30/8/13 16:50         1           Acetophenone         ND         4.7         0.51         ug/L         0.30/02/13 07:34         0.30/8/13 16:50         1           Actophenone         ND         4.7         0.26         ug/L         0.30/02/13 07:34         0.30/8/13 16:50         1           Actophenone         ND         4.7         0.26         ug/L         0.30/02/13 07:34         0.30/8/13 16:50         1           Attractione         <									
4-Methylphenol         ND         9.4         0.34         ug/L         03/02/13 07:34         03/08/13 16:50         1           4-Nitroaniline         ND         9.4         0.24         ug/L         03/02/13 07:34         03/08/13 16:50         1           4-Nitrophenol         ND         9.4         1.4         ug/L         03/02/13 07:34         03/08/13 16:50         1           Acenaphthene         ND         4.7         0.39         ug/L         03/02/13 07:34         03/08/13 16:50         1           Acenaphthylene         ND         4.7         0.51         ug/L         03/02/13 07:34         03/08/13 16:50         1           Acetophenoe         ND         4.7         0.51         ug/L         03/02/13 07:34         03/08/13 16:50         1           Antracene         ND         4.7         0.26         ug/L         03/02/13 07:34         03/08/13 16:50         1           Atrazine         ND         4.7         0.43         ug/L         03/02/13 07:34         03/08/13 16:50         1           Benza(a)pytree         ND         4.7         0.25         ug/L         03/02/13 07:34         03/08/13 16:50         1           Benza(b)fluoranthene         ND         4.7					-				
4-Nitroanliline         ND         9.4         0.24         ug/L         03/02/13 07:34         03/08/13 16:50         1           4-Nitrophenol         ND         9.4         1.4         ug/L         03/02/13 07:34         03/08/13 16:50         1           Acenaphthene         ND         4.7         0.39         ug/L         03/02/13 07:34         03/08/13 16:50         1           Acenaphthylene         ND         4.7         0.36         ug/L         03/02/13 07:34         03/08/13 16:50         1           Acetophenone         ND         4.7         0.51         ug/L         03/02/13 07:34         03/08/13 16:50         1           Anthracene         ND         4.7         0.26         ug/L         03/02/13 07:34         03/08/13 16:50         1           Atrazine         ND         4.7         0.26         ug/L         03/02/13 07:34         03/08/13 16:50         1           Benza(a)anthracene         ND         4.7         0.25         ug/L         03/02/13 07:34         03/08/13 16:50         1           Benza(a)pyrene         ND         4.7         0.34         ug/L         03/02/13 07:34         03/08/13 16:50         1           Benza(b)fluoranthene         ND         4.7 </td <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>									
4-Nitrophenol         ND         9.4         1.4         ug/L         03/02/13 07:34         03/08/13 16:50         1           Acenaphthene         ND         4.7         0.39         ug/L         03/02/13 07:34         03/08/13 16:50         1           Acenaphthylene         ND         4.7         0.36         ug/L         03/02/13 07:34         03/08/13 16:50         1           Acetophenone         ND         4.7         0.51         ug/L         03/02/13 07:34         03/08/13 16:50         1           Anthracene         ND         4.7         0.51         ug/L         03/02/13 07:34         03/08/13 16:50         1           Atrazine         ND         4.7         0.43         ug/L         03/02/13 07:34         03/08/13 16:50         1           Benzaldehyde         ND         4.7         0.25         ug/L         03/02/13 07:34         03/08/13 16:50         1           Benzo(a)anthracene         ND         4.7         0.43         ug/L         03/02/13 07:34         03/08/13 16:50         1           Benzo(a)pyrene         ND         4.7         0.44         ug/L         03/02/13 07:34         03/08/13 16:50         1           Benzo(a)pyrene         ND         4.7									
Acenaphthene         ND         4.7         0.39         ug/L         03/02/13 07:34         03/08/13 16:50         1           Acenaphthylene         ND         4.7         0.36         ug/L         03/02/13 07:34         03/08/13 16:50         1           Acetophenone         ND         4.7         0.51         ug/L         03/02/13 07:34         03/08/13 16:50         1           Anthracene         ND         4.7         0.26         ug/L         03/02/13 07:34         03/08/13 16:50         1           Atrazine         ND         4.7         0.43         ug/L         03/02/13 07:34         03/08/13 16:50         1           Benzaldehyde         ND         4.7         0.25         ug/L         03/02/13 07:34         03/08/13 16:50         1           Benzo(a)anthracene         ND         4.7         0.34         ug/L         03/02/13 07:34         03/08/13 16:50         1           Benzo(b)fluoranthene         ND         4.7         0.34         ug/L         03/02/13 07:34         03/08/13 16:50         1           Benzo(k)fluoranthene         ND         4.7         0.32         ug/L         03/02/13 07:34         03/08/13 16:50         1           Benzo(k)fluoranthene         ND									
Acenaphthylene         ND         4.7         0.36         ug/L         03/02/13 07:34         03/08/13 16:50         1           Acetophenone         ND         4.7         0.51         ug/L         03/02/13 07:34         03/08/13 16:50         1           Anthracene         ND         4.7         0.26         ug/L         03/02/13 07:34         03/08/13 16:50         1           Atrazine         ND         4.7         0.43         ug/L         03/02/13 07:34         03/08/13 16:50         1           Benzaldehyde         ND         4.7         0.25         ug/L         03/02/13 07:34         03/08/13 16:50         1           Benzo(a)anthracene         ND         4.7         0.25         ug/L         03/02/13 07:34         03/08/13 16:50         1           Benzo(a)pyrene         ND         4.7         0.32         ug/L         03/02/13 07:34         03/08/13 16:50         1           Benzo(b)fluoranthene         ND         4.7         0.32         ug/L         03/02/13 07:34         03/08/13 16:50         1           Benzo(k)fluoranthene         ND         4.7         0.69         ug/L         03/02/13 07:34         03/08/13 16:50         1           Bis(2-chloroethox)fluoranthene         ND	•				_				
Acetophenone         ND         4.7         0.51         ug/L         03/02/13 07:34         03/08/13 16:50         1           Anthracene         ND         4.7         0.26         ug/L         03/02/13 07:34         03/08/13 16:50         1           Atrazine         ND         4.7         0.43         ug/L         03/02/13 07:34         03/08/13 16:50         1           Benzaldehyde         ND         4.7         0.25         ug/L         03/02/13 07:34         03/08/13 16:50         1           Benzo(a)anthracene         ND         4.7         0.34         ug/L         03/02/13 07:34         03/08/13 16:50         1           Benzo(a)pyrene         ND         4.7         0.44         ug/L         03/02/13 07:34         03/08/13 16:50         1           Benzo(b)fluoranthene         ND         4.7         0.32         ug/L         03/02/13 07:34         03/08/13 16:50         1           Benzo(k)fluoranthene         ND         4.7         0.33         ug/L         03/02/13 07:34         03/08/13 16:50         1           Benzo(k)fluoranthene         ND         4.7         0.69         ug/L         03/02/13 07:34         03/08/13 16:50         1           Bis(2-chloroethy)fluoranthene         <									
Anthracene         ND         4.7         0.26         ug/L         03/02/13 07:34         03/08/13 16:50         1           Atrazine         ND         4.7         0.43         ug/L         03/02/13 07:34         03/08/13 16:50         1           Benzaldehyde         ND         4.7         0.25         ug/L         03/02/13 07:34         03/08/13 16:50         1           Benzo(a)anthracene         ND         4.7         0.34         ug/L         03/02/13 07:34         03/08/13 16:50         1           Benzo(a)pyrene         ND         4.7         0.44         ug/L         03/02/13 07:34         03/08/13 16:50         1           Benzo(b)fluoranthene         ND         4.7         0.32         ug/L         03/02/13 07:34         03/08/13 16:50         1           Benzo(k)fluoranthene         ND         4.7         0.33         ug/L         03/02/13 07:34         03/08/13 16:50         1           Benzo(k)fluoranthene         ND         4.7         0.69         ug/L         03/02/13 07:34         03/08/13 16:50         1           Benzo(k)fluoranthene         ND         4.7         0.69         ug/L         03/02/13 07:34         03/08/13 16:50         1           Bisi(2-chloriospropyl) ether	• •				-				
Atrazine         ND         4.7         0.43         ug/L         03/02/13 07:34         03/08/13 16:50         1           Benzaldehyde         ND         4.7         0.25         ug/L         03/02/13 07:34         03/08/13 16:50         1           Benzo(a)anthracene         ND         4.7         0.34         ug/L         03/02/13 07:34         03/08/13 16:50         1           Benzo(a)pyrene         ND         4.7         0.44         ug/L         03/02/13 07:34         03/08/13 16:50         1           Benzo(b)fluoranthene         ND         4.7         0.32         ug/L         03/02/13 07:34         03/08/13 16:50         1           Benzo(g,h,i)perylene         ND         4.7         0.33         ug/L         03/02/13 07:34         03/08/13 16:50         1           Benzo(k)fluoranthene         ND         4.7         0.69         ug/L         03/02/13 07:34         03/08/13 16:50         1           Bis (2-chlorostopropyl) ether         ND         4.7         0.69         ug/L         03/02/13 07:34         03/08/13 16:50         1           Bis (2-chlorostopropyl) ether         ND         4.7         0.49         ug/L         03/02/13 07:34         03/08/13 16:50         1           Bis (2-c	·				-				
Benzaldehyde         ND         4.7         0.25 ug/L         03/02/13 07:34         03/08/13 16:50         1           Benzo(a)anthracene         ND         4.7         0.34 ug/L         03/02/13 07:34         03/08/13 16:50         1           Benzo(a)pyrene         ND         4.7         0.44 ug/L         03/02/13 07:34         03/08/13 16:50         1           Benzo(b)fluoranthene         ND         4.7         0.32 ug/L         03/02/13 07:34         03/08/13 16:50         1           Benzo(k)fluoranthene         ND         4.7         0.33 ug/L         03/02/13 07:34         03/08/13 16:50         1           Benzo(k)fluoranthene         ND         4.7         0.69 ug/L         03/02/13 07:34         03/08/13 16:50         1           Benzo(k)fluoranthene         ND         4.7         0.69 ug/L         03/02/13 07:34         03/08/13 16:50         1           Benzo(c)fluoranthene         ND         4.7         0.69 ug/L         03/02/13 07:34         03/08/13 16:50         1           Bisphenyl         ND         4.7         0.69 ug/L         03/02/13 07:34         03/08/13 16:50         1           Bis(2-chlorosthoxy)methane         ND         4.7         0.33 ug/L         03/02/13 07:34         03/08/13 16:50         1<									
Benzo(a)anthracene         ND         4.7         0.34         ug/L         03/02/13 07:34         03/08/13 16:50         1           Benzo(a)pyrene         ND         4.7         0.44         ug/L         03/02/13 07:34         03/08/13 16:50         1           Benzo(b)fluoranthene         ND         4.7         0.32         ug/L         03/02/13 07:34         03/08/13 16:50         1           Benzo(k)fluoranthene         ND         4.7         0.69         ug/L         03/02/13 07:34         03/08/13 16:50         1           Biphenyl         ND         4.7         0.69         ug/L         03/02/13 07:34         03/08/13 16:50         1           Bis(2-chlorostopropyl) ether         ND         4.7         0.69         ug/L         03/02/13 07:34         03/08/13 16:50         1           Bis(2-chlorosthoxy)methane         ND         4.7         0.49         ug/L         03/02/13 07:34         03/08/13 16:50         1           Bis(2-chloroethyl)ether         ND         4.7         0.38         ug/L         03/02/13 07:34         03/08/13 16:50         1           Butyl benzyl phthalate         ND         4.7         0.3         ug/L         03/02/13 07:34         03/08/13 16:50         1					-				
Benzo(a)pyrene         ND         4.7         0.44         ug/L         03/02/13 07:34         03/08/13 16:50         1           Benzo(b)fluoranthene         ND         4.7         0.32         ug/L         03/02/13 07:34         03/08/13 16:50         1           Benzo(g,h,i)perylene         ND         4.7         0.33         ug/L         03/02/13 07:34         03/08/13 16:50         1           Benzo(k)fluoranthene         ND         4.7         0.69         ug/L         03/02/13 07:34         03/08/13 16:50         1           Biphenyl         ND         4.7         0.62         ug/L         03/02/13 07:34         03/08/13 16:50         1           bis (2-chloroisopropyl) ether         ND         4.7         0.49         ug/L         03/02/13 07:34         03/08/13 16:50         1           Bis(2-chloroethoxy)methane         ND         4.7         0.33         ug/L         03/02/13 07:34         03/08/13 16:50         1           Bis(2-chloroethy)lether         ND         4.7         0.38         ug/L         03/02/13 07:34         03/08/13 16:50         1           Butyl benzyl phthalate         ND         4.7         0.1         ug/L         03/02/13 07:34         03/08/13 16:50         1           <					-				
Benzo(b)fluoranthene         ND         4.7         0.32 ug/L         03/02/13 07:34 03/08/13 16:50 1         1           Benzo(g,h,i)perylene         ND         4.7         0.33 ug/L         03/02/13 07:34 03/08/13 16:50 1         1           Benzo(k)fluoranthene         ND         4.7 0.69 ug/L         03/02/13 07:34 03/08/13 16:50 1         1           Biphenyl         ND         4.7 0.62 ug/L         03/02/13 07:34 03/08/13 16:50 1         1           bis (2-chloroisopropyl) ether         ND         4.7 0.49 ug/L         03/02/13 07:34 03/08/13 16:50 1         1           Bis(2-chloroethoxy)methane         ND         4.7 0.33 ug/L         03/02/13 07:34 03/08/13 16:50 1         1           Bis(2-chloroethyl)ether         ND         4.7 0.38 ug/L         03/02/13 07:34 03/08/13 16:50 1         1           Bis(2-ethylhexyl) phthalate         ND         4.7 0.38 ug/L         03/02/13 07:34 03/08/13 16:50 1         1           Butyl benzyl phthalate         ND         4.7 0.40 ug/L         03/02/13 07:34 03/08/13 16:50 1         1           Caprolactam         ND         4.7 0.40 ug/L         03/02/13 07:34 03/08/13 16:50 1         1           Carbazole         ND         4.7 0.28 ug/L         03/02/13 07:34 03/08/13 16:50 1         03/08/13 16:50 1           Chrysene         ND         <									
Benzo(g,h,i)perylene         ND         4.7         0.33 ug/L         03/02/13 07:34 03/08/13 16:50 1         1           Benzo(k)fluoranthene         ND         4.7         0.69 ug/L         03/02/13 07:34 03/08/13 16:50 1         1           Biphenyl         ND         4.7 0.62 ug/L         03/02/13 07:34 03/08/13 16:50 1         1           bis (2-chloroisopropyl) ether         ND         4.7 0.49 ug/L         03/02/13 07:34 03/08/13 16:50 1         1           Bis(2-chloroethoxy)methane         ND         4.7 0.33 ug/L         03/02/13 07:34 03/08/13 16:50 1         1           Bis(2-chloroethyl)ether         ND         4.7 0.38 ug/L         03/02/13 07:34 03/08/13 16:50 1         1           Bis(2-ethylhexyl) phthalate         ND         4.7 1.7 ug/L         03/02/13 07:34 03/08/13 16:50 1         1           Butyl benzyl phthalate         ND         4.7 0.40 ug/L         03/02/13 07:34 03/08/13 16:50 1         1           Caprolactam         ND         4.7 0.28 ug/L         03/02/13 07:34 03/08/13 16:50 1         1           Chrysene         ND         4.7 0.28 ug/L         03/02/13 07:34 03/08/13 16:50 1         03/08/13 16:50 1					-				1
Benzo(k)fluoranthene         ND         4.7         0.69 ug/L         03/02/13 07:34         03/08/13 16:50         1           Biphenyl         ND         4.7         0.62 ug/L         03/02/13 07:34         03/08/13 16:50         1           bis (2-chloroisopropyl) ether         ND         4.7         0.49 ug/L         03/02/13 07:34         03/08/13 16:50         1           Bis(2-chloroethoxy)methane         ND         4.7         0.33 ug/L         03/02/13 07:34         03/08/13 16:50         1           Bis(2-chloroethyl)ether         ND         4.7         0.38 ug/L         03/02/13 07:34         03/08/13 16:50         1           Bis(2-ethylhexyl) phthalate         ND         4.7         1.7 ug/L         03/02/13 07:34         03/08/13 16:50         1           Butyl benzyl phthalate         ND         4.7         0.40 ug/L         03/02/13 07:34         03/08/13 16:50         1           Caprolactam         ND         4.7         0.40 ug/L         03/02/13 07:34         03/08/13 16:50         1           Carbazole         ND         4.7         0.28 ug/L         03/02/13 07:34         03/08/13 16:50         1           Chrysene         ND         4.7         0.28 ug/L         03/02/13 07:34         03/08/13 16:50 <td< td=""><td>Benzo(b)fluoranthene</td><td></td><td></td><td></td><td>-</td><td></td><td></td><td></td><td>1</td></td<>	Benzo(b)fluoranthene				-				1
Biphenyl         ND         4.7         0.62 ug/L         03/02/13 07:34         03/08/13 16:50         1           bis (2-chloroisopropyl) ether         ND         4.7         0.49 ug/L         03/02/13 07:34         03/08/13 16:50         1           Bis(2-chloroethoxy)methane         ND         4.7         0.33 ug/L         03/02/13 07:34         03/08/13 16:50         1           Bis(2-chloroethyl)ether         ND         4.7         0.38 ug/L         03/02/13 07:34         03/08/13 16:50         1           Bis(2-ethylhexyl) phthalate         ND         4.7         1.7 ug/L         03/02/13 07:34         03/08/13 16:50         1           Butyl benzyl phthalate         ND         4.7         0.40 ug/L         03/02/13 07:34         03/08/13 16:50         1           Caprolactam         ND         4.7         2.1 ug/L         03/02/13 07:34         03/08/13 16:50         1           Carbazole         ND         4.7         0.28 ug/L         03/02/13 07:34         03/08/13 16:50         1           Chrysene         ND         4.7         0.28 ug/L         03/02/13 07:34         03/08/13 16:50         1	Benzo(g,h,i)perylene	ND	4.7	0.33	ug/L		03/02/13 07:34	03/08/13 16:50	1
bis (2-chloroisopropyl) ether         ND         4.7         0.49 ug/L         03/02/13 07:34         03/08/13 16:50         1           Bis(2-chloroethoxy)methane         ND         4.7         0.33 ug/L         03/02/13 07:34         03/08/13 16:50         1           Bis(2-chloroethyl)ether         ND         4.7         0.38 ug/L         03/02/13 07:34         03/08/13 16:50         1           Bis(2-ethylhexyl) phthalate         ND         4.7         1.7 ug/L         03/02/13 07:34         03/08/13 16:50         1           Butyl benzyl phthalate         ND         4.7         0.40 ug/L         03/02/13 07:34         03/08/13 16:50         1           Caprolactam         ND         4.7         2.1 ug/L         03/02/13 07:34         03/08/13 16:50         1           Carbazole         ND         4.7         0.28 ug/L         03/02/13 07:34         03/08/13 16:50         1           Chrysene         ND         4.7         0.31 ug/L         03/02/13 07:34         03/08/13 16:50         1	Benzo(k)fluoranthene		4.7	0.69	ug/L		03/02/13 07:34	03/08/13 16:50	1
Bis(2-chloroethoxy)methane         ND         4.7         0.33 ug/L         03/02/13 07:34 03/08/13 16:50 1         1           Bis(2-chloroethyl)ether         ND         4.7         0.38 ug/L         03/02/13 07:34 03/08/13 16:50 1         1           Bis(2-ethylhexyl) phthalate         ND         4.7         1.7 ug/L         03/02/13 07:34 03/08/13 16:50 1         1           Butyl benzyl phthalate         ND         4.7         0.40 ug/L         03/02/13 07:34 03/08/13 16:50 1         1           Caprolactam         ND         4.7         2.1 ug/L         03/02/13 07:34 03/08/13 16:50 1         1           Carbazole         ND         4.7         0.28 ug/L         03/02/13 07:34 03/08/13 16:50 1         1           Chrysene         ND         4.7         0.31 ug/L         03/02/13 07:34 03/08/13 16:50 1         1	Biphenyl	ND	4.7	0.62	ug/L		03/02/13 07:34	03/08/13 16:50	1
Bis(2-chloroethyl)ether         ND         4.7         0.38         ug/L         03/02/13 07:34         03/08/13 16:50         1           Bis(2-ethylhexyl) phthalate         ND         4.7         1.7         ug/L         03/02/13 07:34         03/08/13 16:50         1           Butyl benzyl phthalate         ND         4.7         0.40         ug/L         03/02/13 07:34         03/08/13 16:50         1           Caprolactam         ND         4.7         2.1         ug/L         03/02/13 07:34         03/08/13 16:50         1           Carbazole         ND         4.7         0.28         ug/L         03/02/13 07:34         03/08/13 16:50         1           Chrysene         ND         4.7         0.31         ug/L         03/02/13 07:34         03/08/13 16:50         1	bis (2-chloroisopropyl) ether	ND	4.7				03/02/13 07:34	03/08/13 16:50	1
Bis(2-ethylhexyl) phthalate         ND         4.7         1.7         ug/L         03/02/13 07:34         03/08/13 16:50         1           Butyl benzyl phthalate         ND         4.7         0.40         ug/L         03/02/13 07:34         03/08/13 16:50         1           Caprolactam         ND         4.7         2.1         ug/L         03/02/13 07:34         03/08/13 16:50         1           Carbazole         ND         4.7         0.28         ug/L         03/02/13 07:34         03/08/13 16:50         1           Chrysene         ND         4.7         0.31         ug/L         03/02/13 07:34         03/08/13 16:50         1	Bis(2-chloroethoxy)methane	ND	4.7	0.33	ug/L		03/02/13 07:34	03/08/13 16:50	1
Butyl benzyl phthalate         ND         4.7         0.40 ug/L         03/02/13 07:34 03/08/13 16:50 1         1           Caprolactam         ND         4.7         2.1 ug/L         03/02/13 07:34 03/08/13 16:50 1         03/08/13 16:50 1           Carbazole         ND         4.7         0.28 ug/L         03/02/13 07:34 03/08/13 16:50 1         03/08/13 16:50 1           Chrysene         ND         4.7         0.31 ug/L         03/02/13 07:34 03/08/13 16:50 1         03/08/13 16:50 1	Bis(2-chloroethyl)ether	ND	4.7	0.38	ug/L		03/02/13 07:34	03/08/13 16:50	1
Caprolactam         ND         4.7         2.1         ug/L         03/02/13 07:34         03/08/13 16:50         1           Carbazole         ND         4.7         0.28         ug/L         03/02/13 07:34         03/08/13 16:50         1           Chrysene         ND         4.7         0.31         ug/L         03/02/13 07:34         03/08/13 16:50         1	Bis(2-ethylhexyl) phthalate	ND	4.7	1.7	ug/L		03/02/13 07:34	03/08/13 16:50	1
Carbazole         ND         4.7         0.28 ug/L         03/02/13 07:34 03/08/13 16:50 1         1           Chrysene         ND         4.7         0.31 ug/L         03/02/13 07:34 03/08/13 16:50 1         03/08/13 16:50 1	Butyl benzyl phthalate	ND	4.7	0.40	ug/L		03/02/13 07:34	03/08/13 16:50	1
Chrysene ND 4.7 0.31 ug/L 03/02/13 07:34 03/08/13 16:50 1	Caprolactam	ND	4.7	2.1	ug/L		03/02/13 07:34	03/08/13 16:50	1
	Carbazole	ND	4.7	0.28	ug/L		03/02/13 07:34	03/08/13 16:50	1
Dibenz(a,h)anthracene ND 4.7 0.40 ug/L 03/02/13 07:34 03/08/13 16:50 1	Chrysene	ND	4.7	0.31	ug/L		03/02/13 07:34	03/08/13 16:50	1
	Dibenz(a,h)anthracene	ND	4.7	0.40	ug/L		03/02/13 07:34	03/08/13 16:50	1

TestAmerica Buffalo

Client: Turnkey Environmental Restoration, LLC

Project/Site: Tecumseh

TestAmerica Job ID: 480-33634-1

Lab Sample ID: 480-33634-1

Matrix: Water

Client Sample ID: MWN-10A

Date Collected: 02/26/13 11:15 Date Received: 02/27/13 12:25

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dibenzofuran	ND		9.4	0.48	ug/L		03/02/13 07:34	03/08/13 16:50	1
Diethyl phthalate	ND		4.7	0.21	ug/L		03/02/13 07:34	03/08/13 16:50	1
Dimethyl phthalate	ND		4.7	0.34	ug/L		03/02/13 07:34	03/08/13 16:50	1
Di-n-butyl phthalate	ND		4.7	0.29	ug/L		03/02/13 07:34	03/08/13 16:50	1
Di-n-octyl phthalate	ND		4.7	0.44	ug/L		03/02/13 07:34	03/08/13 16:50	1
Fluoranthene	ND		4.7	0.38	ug/L		03/02/13 07:34	03/08/13 16:50	1
Fluorene	ND		4.7	0.34	ug/L		03/02/13 07:34	03/08/13 16:50	1
Hexachlorobenzene	ND		4.7	0.48	ug/L		03/02/13 07:34	03/08/13 16:50	1
Hexachlorobutadiene	ND		4.7	0.64	ug/L		03/02/13 07:34	03/08/13 16:50	1
Hexachlorocyclopentadiene	ND		4.7	0.56	ug/L		03/02/13 07:34	03/08/13 16:50	1
Hexachloroethane	ND		4.7	0.56	ug/L		03/02/13 07:34	03/08/13 16:50	1
Indeno(1,2,3-cd)pyrene	ND		4.7	0.44	ug/L		03/02/13 07:34	03/08/13 16:50	1
Isophorone	ND		4.7	0.41	ug/L		03/02/13 07:34	03/08/13 16:50	1
Naphthalene	ND		4.7	0.72	ug/L		03/02/13 07:34	03/08/13 16:50	1
Nitrobenzene	ND		4.7	0.27	ug/L		03/02/13 07:34	03/08/13 16:50	1
N-Nitrosodi-n-propylamine	ND		4.7	0.51	ug/L		03/02/13 07:34	03/08/13 16:50	1
N-Nitrosodiphenylamine	ND		4.7	0.48	ug/L		03/02/13 07:34	03/08/13 16:50	1
Pentachlorophenol	ND		9.4	2.1	ug/L		03/02/13 07:34	03/08/13 16:50	1
Phenanthrene	ND		4.7	0.42	ug/L		03/02/13 07:34	03/08/13 16:50	1
Phenol	ND		4.7	0.37	ug/L		03/02/13 07:34	03/08/13 16:50	1
Pyrene	ND		4.7	0.32	ug/L		03/02/13 07:34	03/08/13 16:50	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	99		52 - 132				03/02/13 07:34	03/08/13 16:50	1
2-Fluorobiphenyl	86		48 - 120				03/02/13 07:34	03/08/13 16:50	1
2-Fluorophenol	37		20 - 120				03/02/13 07:34	03/08/13 16:50	1
Nitrobenzene-d5	66		46 - 120				03/02/13 07:34	03/08/13 16:50	1
Phenol-d5	25		16 - 120				03/02/13 07:34	03/08/13 16:50	1
p-Terphenyl-d14	96		67 - 150				03/02/13 07:34	03/08/13 16:50	1

Client: Turnkey Environmental Restoration, LLC

Project/Site: Tecumseh

TestAmerica Job ID: 480-33634-1

Lab Sample ID: 480-33634-2

Matrix: Water

Client Sample ID: MWN-61A Date Collected: 02/26/13 12:08

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Method: 8260B - Volatile Organic (				•		_	_		<b></b> -
Analyte		Qualifier	RL	MDL		D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	•			03/04/13 18:51	1
1,1,2,2-Tetrachloroethane	ND		1.0		ug/L			03/04/13 18:51	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0		ug/L			03/04/13 18:51	1
1,1,2-Trichloroethane	ND		1.0		ug/L			03/04/13 18:51	1
1,1-Dichloroethane	ND		1.0		ug/L			03/04/13 18:51	1
1,1-Dichloroethene	ND		1.0		ug/L			03/04/13 18:51	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			03/04/13 18:51	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			03/04/13 18:51	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			03/04/13 18:51	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			03/04/13 18:51	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			03/04/13 18:51	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			03/04/13 18:51	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			03/04/13 18:51	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			03/04/13 18:51	1
2-Butanone (MEK)	ND		10	1.3	ug/L			03/04/13 18:51	1
2-Hexanone	ND		5.0	1.2	ug/L			03/04/13 18:51	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			03/04/13 18:51	1
Acetone	ND		10	3.0	ug/L			03/04/13 18:51	1
Benzene	0.90	J	1.0	0.41	ug/L			03/04/13 18:51	1
Bromodichloromethane	ND		1.0	0.39	ug/L			03/04/13 18:51	1
Bromoform	ND		1.0	0.26	ug/L			03/04/13 18:51	1
Bromomethane	ND		1.0	0.69	ug/L			03/04/13 18:51	1
Carbon disulfide	ND		1.0	0.19	ug/L			03/04/13 18:51	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			03/04/13 18:51	1
Chlorobenzene	ND		1.0	0.75	ug/L			03/04/13 18:51	1
Chloroethane	ND		1.0	0.32				03/04/13 18:51	1
Chloroform	ND		1.0	0.34	ug/L			03/04/13 18:51	1
Chloromethane	ND		1.0	0.35	ug/L			03/04/13 18:51	1
cis-1,2-Dichloroethene	ND		1.0	0.81	-			03/04/13 18:51	1
cis-1,3-Dichloropropene	ND		1.0		ug/L			03/04/13 18:51	1
Cyclohexane	ND		1.0		ug/L			03/04/13 18:51	1
Dibromochloromethane	ND		1.0	0.32	•			03/04/13 18:51	1
Dichlorodifluoromethane	ND		1.0		ug/L			03/04/13 18:51	1
Ethylbenzene	ND		1.0		ug/L			03/04/13 18:51	1
Isopropylbenzene	ND		1.0		ug/L			03/04/13 18:51	1
Methyl acetate	ND		1.0	0.50				03/04/13 18:51	1
Methyl tert-butyl ether	ND		1.0		ug/L			03/04/13 18:51	1
Methylcyclohexane	ND		1.0		ug/L			03/04/13 18:51	1
Methylene Chloride	ND		1.0		ug/L			03/04/13 18:51	1
	ND				<del>.</del>			03/04/13 18:51	
Styrene			1.0		ug/L				
Tetrachloroethene	ND ND		1.0		ug/L			03/04/13 18:51	1
Toluene	ND		1.0		ug/L			03/04/13 18:51	1
trans-1,2-Dichloroethene	ND		1.0	0.90				03/04/13 18:51	1
trans-1,3-Dichloropropene	ND		1.0		ug/L			03/04/13 18:51	1
Trichloroethene	ND		1.0	0.46				03/04/13 18:51	1
Trichlorofluoromethane	ND		1.0	0.88				03/04/13 18:51	1
Vinyl chloride	ND		1.0	0.90	ug/L			03/04/13 18:51	1

Client: Turnkey Environmental Restoration, LLC

Project/Site: Tecumseh

Lab Sample ID: 480-33634-2

TestAmerica Job ID: 480-33634-1

Matrix: Water

**Client Sample ID: MWN-61A** 

Date Collected: 02/26/13 12:08 Date Received: 02/27/13 12:25

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	103		66 - 137		03/04/13 18:51	1
4-Bromofluorobenzene (Surr)	105		73 - 120		03/04/13 18:51	1
Toluene-d8 (Surr)	101		71 - 126		03/04/13 18:51	1

-	101		77-720					03/04/13 10.31	,
Method: 8270C - Semivolatile C Analyte		nds (GC/MS)  Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	ND		4.7	0.45	ug/L		03/02/13 07:34	03/08/13 17:15	1
2,4,6-Trichlorophenol	ND		4.7	0.58	ug/L		03/02/13 07:34	03/08/13 17:15	1
2,4-Dichlorophenol	ND		4.7	0.48	ug/L		03/02/13 07:34	03/08/13 17:15	1
2,4-Dimethylphenol	0.67	J	4.7	0.47	ug/L		03/02/13 07:34	03/08/13 17:15	1
2,4-Dinitrophenol	ND		9.4	2.1	ug/L		03/02/13 07:34	03/08/13 17:15	1
2,4-Dinitrotoluene	ND		4.7	0.42	ug/L		03/02/13 07:34	03/08/13 17:15	1
2,6-Dinitrotoluene	ND		4.7	0.38	ug/L		03/02/13 07:34	03/08/13 17:15	1
2-Chloronaphthalene	ND		4.7	0.43	ug/L		03/02/13 07:34	03/08/13 17:15	1
2-Chlorophenol	ND		4.7	0.50	ug/L		03/02/13 07:34	03/08/13 17:15	1
2-Methylnaphthalene	4.9		4.7	0.57	ug/L		03/02/13 07:34	03/08/13 17:15	1
2-Methylphenol	ND		4.7	0.38	ug/L		03/02/13 07:34	03/08/13 17:15	1
2-Nitroaniline	ND		9.4	0.40	ug/L		03/02/13 07:34	03/08/13 17:15	1
2-Nitrophenol	ND		4.7	0.45	ug/L		03/02/13 07:34	03/08/13 17:15	1
3,3'-Dichlorobenzidine	ND		4.7	0.38	ug/L		03/02/13 07:34	03/08/13 17:15	1
3-Nitroaniline	ND		9.4	0.45	ug/L		03/02/13 07:34	03/08/13 17:15	1
4,6-Dinitro-2-methylphenol	ND		9.4	2.1	ug/L		03/02/13 07:34	03/08/13 17:15	1
4-Bromophenyl phenyl ether	ND		4.7	0.42	-		03/02/13 07:34	03/08/13 17:15	1
4-Chloro-3-methylphenol	ND		4.7		ug/L		03/02/13 07:34	03/08/13 17:15	1
4-Chloroaniline	ND		4.7		ug/L		03/02/13 07:34	03/08/13 17:15	1
4-Chlorophenyl phenyl ether	ND		4.7	0.33	-		03/02/13 07:34	03/08/13 17:15	1
4-Methylphenol	ND		9.4		ug/L		03/02/13 07:34	03/08/13 17:15	1
4-Nitroaniline	ND		9.4		ug/L		03/02/13 07:34	03/08/13 17:15	1
4-Nitrophenol	ND		9.4		ug/L		03/02/13 07:34	03/08/13 17:15	1
Acenaphthene	11		4.7		ug/L		03/02/13 07:34	03/08/13 17:15	1
Acenaphthylene	3.8		4.7		ug/L		03/02/13 07:34	03/08/13 17:15	1
Acetophenone	ND		4.7				03/02/13 07:34	03/08/13 17:15	1
Anthracene	1.9	J	4.7		ug/L		03/02/13 07:34	03/08/13 17:15	1
Atrazine	ND		4.7	0.43			03/02/13 07:34	03/08/13 17:15	1
Benzaldehyde	ND		4.7	0.25			03/02/13 07:34	03/08/13 17:15	1
Benzo(a)anthracene	ND		4.7		ug/L		03/02/13 07:34	03/08/13 17:15	1
Benzo(a)pyrene	ND		4.7		ug/L		03/02/13 07:34	03/08/13 17:15	1
Benzo(b)fluoranthene	ND		4.7		ug/L		03/02/13 07:34	03/08/13 17:15	1
Benzo(g,h,i)perylene	ND		4.7		ug/L		03/02/13 07:34	03/08/13 17:15	1
Benzo(k)fluoranthene	ND		4.7		ug/L		03/02/13 07:34	03/08/13 17:15	1
Biphenyl	3.8	J.	4.7	0.62	-		03/02/13 07:34	03/08/13 17:15	1
bis (2-chloroisopropyl) ether	ND.		4.7		ug/L		03/02/13 07:34	03/08/13 17:15	1
Bis(2-chloroethoxy)methane	ND		4.7		ug/L		03/02/13 07:34	03/08/13 17:15	· 1
Bis(2-chloroethyl)ether	ND		4.7		ug/L		03/02/13 07:34	03/08/13 17:15	1
Bis(2-ethylhexyl) phthalate	ND		4.7		ug/L		03/02/13 07:34	03/08/13 17:15	1
Butyl benzyl phthalate	ND		4.7		ug/L		03/02/13 07:34	03/08/13 17:15	· 1
Caprolactam	ND		4.7		ug/L		03/02/13 07:34	03/08/13 17:15	1
Carbazole	0.50	.1	4.7	0.28			03/02/13 07:34	03/08/13 17:15	1
Chrysene	ND		4.7		ug/L		03/02/13 07:34	03/08/13 17:15	· · · · · · · · · · · · · · · · · · ·
Dibenz(a,h)anthracene	ND		4.7		ug/L		03/02/13 07:34	03/08/13 17:15	1
Discriz(a,ir)animacene	ND		4.1	0.40	ug/L		00/02/10 07.04	00/00/10 17.10	1

TestAmerica Buffalo

Client: Turnkey Environmental Restoration, LLC

Project/Site: Tecumseh

TestAmerica Job ID: 480-33634-1

Lab Sample ID: 480-33634-2

Matrix: Water

Client Sample ID: MWN-61A
Date Collected: 02/26/13 12:08

Date Received: 02/27/13 12:25

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dibenzofuran	13		9.4	0.48	ug/L		03/02/13 07:34	03/08/13 17:15	1
Diethyl phthalate	ND		4.7	0.21	ug/L		03/02/13 07:34	03/08/13 17:15	1
Dimethyl phthalate	ND		4.7	0.34	ug/L		03/02/13 07:34	03/08/13 17:15	1
Di-n-butyl phthalate	ND		4.7	0.29	ug/L		03/02/13 07:34	03/08/13 17:15	1
Di-n-octyl phthalate	ND		4.7	0.44	ug/L		03/02/13 07:34	03/08/13 17:15	1
Fluoranthene	3.3	J	4.7	0.38	ug/L		03/02/13 07:34	03/08/13 17:15	1
Fluorene	12		4.7	0.34	ug/L		03/02/13 07:34	03/08/13 17:15	1
Hexachlorobenzene	ND		4.7	0.48	ug/L		03/02/13 07:34	03/08/13 17:15	1
Hexachlorobutadiene	ND		4.7	0.64	ug/L		03/02/13 07:34	03/08/13 17:15	1
Hexachlorocyclopentadiene	ND		4.7	0.56	ug/L		03/02/13 07:34	03/08/13 17:15	1
Hexachloroethane	ND		4.7	0.56	ug/L		03/02/13 07:34	03/08/13 17:15	1
Indeno(1,2,3-cd)pyrene	ND		4.7	0.44	ug/L		03/02/13 07:34	03/08/13 17:15	1
Isophorone	ND		4.7	0.41	ug/L		03/02/13 07:34	03/08/13 17:15	1
Naphthalene	25		4.7	0.72	ug/L		03/02/13 07:34	03/08/13 17:15	1
Nitrobenzene	0.49	J	4.7	0.27	ug/L		03/02/13 07:34	03/08/13 17:15	1
N-Nitrosodi-n-propylamine	ND		4.7	0.51	ug/L		03/02/13 07:34	03/08/13 17:15	1
N-Nitrosodiphenylamine	ND		4.7	0.48	ug/L		03/02/13 07:34	03/08/13 17:15	1
Pentachlorophenol	ND		9.4	2.1	ug/L		03/02/13 07:34	03/08/13 17:15	1
Phenanthrene	17		4.7	0.42	ug/L		03/02/13 07:34	03/08/13 17:15	1
Phenol	ND		4.7	0.37	ug/L		03/02/13 07:34	03/08/13 17:15	1
Pyrene	2.2	J	4.7	0.32	ug/L		03/02/13 07:34	03/08/13 17:15	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	91		52 - 132	03/02/13 07:34	03/08/13 17:15	1
2-Fluorobiphenyl	89		48 - 120	03/02/13 07:34	03/08/13 17:15	1
2-Fluorophenol	40		20 - 120	03/02/13 07:34	03/08/13 17:15	1
Nitrobenzene-d5	70		46 - 120	03/02/13 07:34	03/08/13 17:15	1
Phenol-d5	25		16 - 120	03/02/13 07:34	03/08/13 17:15	1
p-Terphenyl-d14	83		67 - 150	03/02/13 07:34	03/08/13 17:15	1

#### **Lab Chronicle**

Client: Turnkey Environmental Restoration, LLC

Project/Site: Tecumseh

TestAmerica Job ID: 480-33634-1

Lab Sample ID: 480-33634-1

Matrix: Water

Date Collected: 02/26/13 11:15 Date Received: 02/27/13 12:25

Client Sample ID: MWN-10A

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	105630	03/04/13 18:28	CDC	TAL BUF
Total/NA	Prep	3510C			105551	03/02/13 07:34	MZ	TAL BUF
Total/NA	Analysis	8270C		1	106502	03/08/13 16:50	RMM	TAL BUF

Client Sample ID: MWN-61A Lab Sample ID: 480-33634-2

Date Collected: 02/26/13 12:08 Matrix: Water

Date Received: 02/27/13 12:25

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	105630	03/04/13 18:51	CDC	TAL BUF
Total/NA	Prep	3510C			105551	03/02/13 07:34	MZ	TAL BUF
Total/NA	Analysis	8270C		1	106502	03/08/13 17:15	RMM	TAL BUF

Laboratory References:

TAL BUF = TestAmerica Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

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TestAmerica Buffalo

# **Certification Summary**

Client: Turnkey Environmental Restoration, LLC

Project/Site: Tecumseh

TestAmerica Job ID: 480-33634-1

#### Laboratory: TestAmerica Buffalo

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date		
Arkansas DEQ	State Program	6	88-0686	07-06-13		
California	NELAP	9	1169CA	09-30-13		
Connecticut	State Program	1	PH-0568	09-30-14		
Florida	NELAP	4	E87672	06-30-13		
Georgia	State Program	4	N/A	03-31-13		
Georgia	State Program	4	956	06-30-13		
Georgia	State Program	4	956	06-30-13		
Ilinois	NELAP	5	200003	09-30-13		
owa	State Program	7	374	03-01-13		
Kansas	NELAP	7	E-10187	01-31-14		
Kentucky	State Program	4	90029	12-31-13		
Kentucky (UST)	State Program	4	30	04-01-13		
_ouisiana	NELAP	6	02031	06-30-13		
Maine	State Program	1	NY00044	12-04-13		
Maryland	State Program	3	294	03-31-13		
Massachusetts	State Program	1	M-NY044	06-30-13		
Michigan	State Program	5	9937	04-01-13		
Minnesota	NELAP	5	036-999-337	12-31-13		
lew Hampshire	NELAP	1	2973	09-11-13		
New Hampshire	NELAP	1	2337	11-17-13		
New Jersey	NELAP	2	NY455	06-30-13		
New York	NELAP	2	10026	03-31-13		
North Dakota	State Program	8	R-176	03-31-13		
Oklahoma	State Program	6	9421	08-31-13		
Dregon	NELAP	10	NY200003	06-09-13		
Pennsylvania	NELAP	3	68-00281	07-31-13		
Rhode Island	State Program	1	LAO00328	12-31-13		
ennessee	State Program	4	TN02970	04-01-13		
exas	NELAP	6	T104704412-11-2	07-31-13		
JSDA	Federal		P330-11-00386	11-22-14		
/irginia	NELAP	3	460185	09-14-13		
Vashington	State Program	10	C784	02-10-14		
West Virginia DEP	State Program	3	252	09-30-13		
Wisconsin	State Program	5	998310390	08-31-13		

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### **Method Summary**

Client: Turnkey Environmental Restoration, LLC

Project/Site: Tecumseh

TestAmerica Job ID: 480-33634-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL BUF
8270C	Semivolatile Organic Compounds (GC/MS)	SW846	TAL BUF

#### Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

#### Laboratory References:

TAL BUF = TestAmerica Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

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# **Sample Summary**

Client: Turnkey Environmental Restoration, LLC

Project/Site: Tecumseh

TestAmerica Job ID: 480-33634-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-33634-1	MWN-10A	Water	02/26/13 11:15	02/27/13 12:25
480-33634-2	MWN-61A	Water	02/26/13 12:08	02/27/13 12:25

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### **Login Sample Receipt Checklist**

Client: Turnkey Environmental Restoration, LLC

Job Number: 480-33634-1

Login Number: 33634 List Source: TestAmerica Buffalo

List Number: 1

Creator: Robitaille, Zach L

orontori resonantoj matri m		
Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	TURNKEY
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	N/A	
Chlorine Residual checked.	N/A	

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	Chain of Custody Number	Page 1 of /		Special Instructions/	Conditions of Receipt									(A fee may be assessed if samples are relained longer than 1 month)		2 Inne	Jay 173 1725	Date / Time	1.8 F P	
THE LEADER IN ENVIRONMENTAL TESTING	2/26/13	Lab Number	Analysis (Attach list if more space is needed)		DONS	721	7	7						Months	,		JAB SAIL			
• · · · · · · · · · · · · · · · · · · ·	וא	مر ۾	9	928	Containers & S	TOL TOL TOL HOBN HOBN IOH EONH FOSZH	X X 3 2	, × ×							C Requirements (Specify) $C$ $A$ $T$ $B$	1. Received by	S successors &	Hagewed By		háo
Temperature on Receipt Drinking Water? Yes⊡ No⊠	Project Manager	1818 (ALC) 85	Site Contact	Carrier/Waybill Number	Matrix	Inos bes inosuph	3 1115 X	1508					Sample Disposal	🗆 Poison B 🔏 Unknown 🗀 Retum To Client	K Other SI	2/26/13 1400	245 STA 122	Date		ays with the Sample; PINK - Field Cl
Chain of Custody Record	Comment Fruita, h.	2558 Humbary Tungi	City State Zip Code	22	ContractPurchase Order/Quote No.	Sample I.D. No. and Description (Containers for each sample may be combined on one line)	MWN-10A 2/26/13	MWN-61A					Possible Hazard Identification	mable Skin Imitant	Tum Around Time Required  24 Hours     44 Hours   7 Days   14 Days   21 Days	J. Relinguished By	2. Philipping of St.	3. Helinquished By	Comments	DISTRIBUTION: WHITE - Returned to Client with Report. CANARY - Stays with the Sample: PINK - Field Copy