



150 North Patrick Blvd.
Suite 180
Brookfield, WI 53045

262.879.1212 PHONE
262.879.1220 FAX

www.TRCSolutions.com

May 8, 2015

Mr. Andrew Malsom
Wisconsin Department of Transportation
141 NW Barstow Street
Waukesha, WI 53187

Subject: Phase 3 Investigation
I-94/Wheelhouse Parcel, 3760 Wheelhouse Road – Outlot 1, Milwaukee, WI
WisDOT Project ID #1060-27-00
TRC Project #232269.0000.0000

Dear Andy:

Attached find two (2) copies of the Phase 3 Investigation Report for the above-referenced project.

TRC appreciates the opportunity to be of service to the WisDOT on this project. If you have any questions regarding this project or report, please contact Bryan at 262-901-2126.

Sincerely,

TRC Environmental Corporation

Bryan J. Bergmann, P.G.
Project Manager

cc: Shar TeBeest – WisDOT (hard copy and pdf on CD)
Jim Morse – TRC



Phase 3 Investigation

**Former CMC Shops Wheelhouse
3760 Wheelhouse Road – Outlot 1
Milwaukee, Milwaukee County, Wisconsin**

WisDOT Project ID #1060-27-00

May 2015

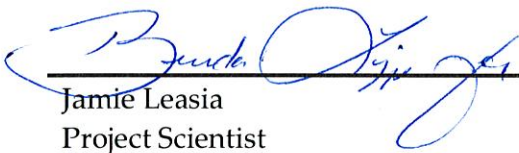


Phase 3 Investigation

Former CMC Shops Wheelhouse
3760 Wheelhouse Road – Outlot 1
Milwaukee, Milwaukee County, Wisconsin

WisDOT Project ID #1060-27-00

May 2015



Jamie Leasia
Project Scientist



Bryan Bergmann, P.G.
Project Manager



James E. Morse
Senior Client Service Manager

Table of Contents

Commonly Used Abbreviations and Acronyms	ii
Executive Summary	iii
1. Background	1
2. Sampling Activities	2
3. Soil Sampling Results and Evaluation.....	4
3.1 Asbestos Sampling Results	4
3.2 Soil Sampling Results	4
3.3 Groundwater Sampling Results.....	4
4. Findings, Conclusions, and Recommendations	6

List of Tables

Table 1	Soil Sampling Results Summary – Phase 3 Investigation
Table 2	Groundwater Sampling Results Summary – Phase 3 Investigation

List of Figures

Figure 1	Project Location and Limits
Figure 2	Phase 3 Soil Boring Locations
Figure 3	Geologic Cross Section Locations
Figure 4	Geologic Cross Sections A-A' and B-B'

List of Appendices

Appendix A	Historical Information
Appendix B	Soil Boring Logs and Borehole Abandonment Forms
Appendix C	Photographs
Appendix D	Laboratory Analytical Report
Appendix E	Cumulative Hazard Index and Cancer Risk Calculations
Appendix F	Environmental Liability Financial Analysis

Commonly Used Abbreviations and Acronyms

AST	aboveground storage tank
bgs	below ground surface
BRRTS	Bureau for Remediation and Redevelopment Tracking System
CERCLA	Comprehensive Environmental Response, Compensation and Liability Act
CTH	County Trunk Highway
CY	cubic yards
DATCP	Department of Agriculture, Trade and Consumer Protection
DRO	diesel range organics
FDM	Facilities Development Manual
EMP	Excavation Management Plan
ERP	Environmental Repair Program
ES	Enforcement Standards
ESA	Environmental Site Assessment
FINDS	Facility Index System/Facility Identification Initiative Program Summary Report
GIS Registry	WDNR Geographic Information System (GIS) Registry of Closed Remediation Sites
GRO	gasoline range organics
HAZWOPER	Code of Federal Registry Chapter 29 (29 CFR) Part 1910.120 Hazardous Waste Operations and Emergency Response
HMA	Hazardous Materials Assessment
IH	Interstate Highway
LQG	large quantity generator
LUST	leaking underground storage tank
NPL	National Priorities List
NR ###	Wisconsin Administrative Code (WAC) Natural Resources (NR) Chapter ###
PAHs	polynuclear aromatic hydrocarbons
PAL	Preventive Action Limits
PCBs	polychlorinated biphenyls
PCE	perchloroethylene/tetrachloroethylene
PID	photoionization detector
PVOCs	petroleum volatile organic compounds
RCLs	Residual Contaminant Levels in NR 720
RCRA	Resource Conservation and Recovery Act
RCRIS	Resource Conservation and Recovery Information System
R/W or ROW	right-of-way
sf	square feet
STH	State Trunk Highway
TCE	trichloroethylene
TRIS	Toxic Chemical Release Inventory System
USGS	United States Geological Survey
USH	United States Highway
UST	underground storage tank
VOCs	volatile organic compounds
WDNR	Wisconsin Department of Natural Resources
WisDOT	Wisconsin Department of Transportation
WGNHS	Wisconsin Geological and Natural History Survey
WI ERP	Wisconsin Environmental Repair Program database

Executive Summary

In preparation for the reconstruction of the I-94 East-West Freeway between the Marquette Interchange and the Zoo Interchange, the WisDOT is considering the acquisition of the Former CMC Shops Wheelhouse property at 3760 Wheelhouse Road (Outlet 1 Parcel) for potential relocation of the nearby WE Energies substation. This parcel is part of the City of Milwaukee's Shops Site "Former CMC" located in the Menomonee Valley, northeast of the Miller Park facility. This parcel was historically utilized for rail car erecting and repair, as well as for the repair of rail car wheels. The property is currently owned by the City of Milwaukee. The site is an Open ERP site (Menomonee Valley/CMC, WDNR BRRTS No. 02-41-000228, FID No. 241012750). Previous investigative work at the site found that soil and groundwater are contaminated with petroleum and metals.

On February 16, 2015, the WisDOT retained TRC Environmental Corporation (TRC) to complete a Phase 3 investigation of the proposed acquisition site. TRC performed the Phase 3 Investigation field activities for this project on March 30-31 and April 1-2, 2015.

The Phase 3 Investigation results for the Wheelhouse property are as follows:

- The upper few feet of soil at the site has been mixed with building debris. The Phase 3 sampling did not detect asbestos in the 15 soil samples collected. However, historical information and testing results for the larger neighboring Former CMC Shops site indicates that ACM in soil could be present at the Wheelhouse property.
- Fill soils at the site contain varying percentages of foundry sand. Concrete slabs and/or concrete rubble is present at a depth of approximately 6.5' to 7' bgs across the length of the site in an east-west direction.
- VOCs, SVOCs, PCBs, arsenic and lead are present in soil across the site at concentrations exceeding WDNR standards. The highest concentrations of contaminants are located across the center of the site in an east-west direction.
- Lead concentrations in three samples exceeded 100 mg/l (landfill acceptance criteria). However, the TCLP lead results for the three samples were less than the landfill acceptance criteria of 5 mg/l.
- Free product was observed near the middle one-third of the site.
- Groundwater contamination (SVOCs, PCBs, and arsenic) exceeding WDNR standards is present in the western portion of the site.

To assist the WisDOT in determining environmental and financial liabilities associated with possible acquisition of the site, TRC prepared an Environmental Liability Financial Analysis. The information provided in the Environmental Liability Financial Analysis should be shared with the WisDOT real estate department.

Section 1

Background

In preparation for the reconstruction of the I-94 East-West Freeway between the Marquette Interchange and the Zoo Interchange, the WisDOT is considering the acquisition of the Former CMC Shops Wheelhouse property at 3760 Wheelhouse Road (See Figure 1 Outlet 1 Parcel) for potential relocation of the nearby WE Energies substation. This parcel is part of the City of Milwaukee's Shops Site (site number 200 in the Phase 1 HMA, "Former CMC") located in the Menomonee Valley, northeast of the Miller Park facility. This parcel was historically utilized for rail car erecting and repair, as well as for the repair of rail car wheels. The property is currently owned by the City of Milwaukee. The Phase I HMA was conducted by Kapur & Associates, Inc. in June 2014 for the East-West project.

Multiple site investigations have been conducted at this property over the past two decades by STS Consultants Ltd. (STS), The Sigma Group, Incorporated (Sigma), and other consultants. As part of the 3760 Wheelhouse Road property redevelopment, a 1996 STS groundwater monitoring investigation report documented previous demolition of onsite buildings. Building debris from the historic buildings at the Former CMC Shops site was known to contain asbestos. Additionally, a 2004 Sigma report noted contaminants of concern at this property are; Stoddard solvent, oils (potentially PCB-containing), cleaners (potentially chlorinated), and paints. Measurable free product was also noted at this site in a prior investigation report.

Historical information for the Wheelhouse property is included in Appendix A.

On February 16, 2015, the WisDOT retained TRC to complete a Phase 3 investigation of the proposed acquisition site.

Section 2

Sampling Activities

TRC performed the Phase 3 Investigation field activities for this project on March 30-31 and April 1-2, 2015. A total of 15 soil probe borings (GP-1 through GP-15) were advanced to depths ranging from 6.5' to 16' bgs at the locations shown on Figure 2. Soil borings GP-8, GP-9, GP-11, GP-12, and GP-13 were terminated at a depths of ~6.5' to 7' bgs due to refusal on concrete. Soil was continuously sampled, classified, and field-screened using a PID.

Historic building debris from the CMC Shops site contained asbestos. According to historic site information, the upper few feet of soil at the site was mixed with building debris. To determine if asbestos containing material (ACM) was present in near surface soil at the Wheelhouse property, one soil sample from the 0'-4' interval of each boring was submitted to a laboratory for analysis of asbestos by polarized light microscopy (PLM).

The upper 2 feet of soil across the center of the site in an east-west direction consisted of clay (a clay cap). The clay cap was underlain by fill material consisting primarily of brown to dark brown sand and gravel with ~10%-60% foundry sand. Concrete with some brick fragments was present at depth of ~6.5' to 7' bgs in GP-8, GP-9, GP-11, GP-12, and GP-13. The location of the concrete and bricks is consistent with the historic location of the Wheelhouse building at the site. Soil below the fill and concrete was generally native clay, silt, and sand with occasional shell fragments. See the boring logs in Appendix B for more details.

Free product was observed while logging soil samples in the field from approximately 5' to 10' bgs in samples from GP-2, GP-3, GP-4, GP-9, and GP-10 and possibly at GP-5.

One soil sample from the upper 0' to 4' bgs was collected from each boring for laboratory analysis of asbestos.

Based on visual evidence and PID readings, two to three soil samples were collected from each soil boring for laboratory analysis of PCBs, PAHs, VOCs, and RCRA metals.

Temporary wells were installed in borings GP-1, GP-5, GP-14, and GP-15. These borings were advanced deep enough to intersect the water table, and did not show obvious signs of free product in the field. Additional temporary wells were not installed due to the presence of free product in some borings and/or refusal on concrete.

Groundwater samples were collected from the four temporary monitoring wells and submitted for laboratory analysis of VOCs, PAHs, PCBs, and RCRA metals (field filtered).

The temporary wells were removed after sampling, and all boreholes were abandoned with bentonite chips. Borehole abandonment forms for each of the borings are included in Appendix B.

Photographs taken during fieldwork activities are provided in Appendix C.

Section 3

Soil Sampling Results and Evaluation

3.1 Asbestos Sampling Results

Asbestos was not detected in the 15 near-surface samples that were analyzed. The asbestos analysis report is provided in Appendix D.

3.2 Soil Sampling Results

Soil sampling results are summarized in Table 1. The laboratory analytical report is provided in Appendix D.

During the soil sampling activities, free product was observed at the water table in GP-2, GP-3, GP-4, GP-9, and GP-10 at depths ranging from 5' to 10' bgs. Possible free product was observed in GP-5 during soil sampling.

VOCs, SVOCs, PCBs, arsenic and lead are present across the site at concentrations exceeding WDNR standards. The highest concentrations of contaminants are located across the center of the site in an east-west direction in GP-8, GP-9, GP-10, GP-11, GP-12, and GP-13.

Lead concentrations in three samples exceeded 100 mg/l (landfill acceptance criteria). The three samples were analyzed by the toxicity characteristic leaching procedure (TCLP). The TCLP lead results were less than the landfill acceptance criteria of 5 mg/l.

3.3 Groundwater Sampling Results

Groundwater sampling results are summarized in Table 2. The laboratory analytical report is provided in Appendix D.

During the groundwater sampling activities, free product was observed in GP-5. Groundwater samples were not collected from GP-5 for laboratory analysis due to the present of approximately one inch of free product.

SVOCs were detected in samples GP-1 and GP-15. The benzo(a)pyrene, benzo(b)fluoranthene, and chrysene concentrations exceeded the respective NR 140 ESs.

VOCs were only detected in GP-1. All detected results were below the respective NR 140 Pals where applicable.

PCBs (PCB-1254) were detected in GP-1 at a concentration of 4.8 µg/l which exceeded the NR 140 ES of 0.03 µg/l. PCBs were not detected in samples GP-14 and GP-15.

Several metals were detected in samples at concentrations below the respective NR 140 PALs with the exception of the arsenic concentration (3.4 µg/l) in GP-1 which was greater than the PAL (1 µg/l) but less than the ES (10 µg/l).

A trip blank was shipped to the laboratory with the samples but the trip blank bottle broke while in transit to the laboratory.

Section 4

Findings, Conclusions, and Recommendations

The Phase 3 Investigation results for the Wheelhouse property are as follows:

- The upper few feet of soil at the site has been mixed with building debris. The Phase 3 asbestos sampling did not detect asbestos in the 15 soil samples. However, historical information and testing results for the larger Former CMC Shops site indicates that ACM in soil could still be present at the Wheelhouse property.
- Fill soils at the site contain varying percentages of foundry sand. Concrete slabs and/or concrete rubble is present at a depth of approximately 6.5' to 7' bgs across the length of the site in an east-west direction. The thickness of the concrete could not be determined during the Phase 3 but if the concrete is part of a slab, it could be up to a few feet thick.
- VOCs, SVOCs, PCBs, arsenic and lead are present in soil across the site at concentrations exceeding WDNR standards. The highest concentrations of contaminants are located across the center of the site in an east-west direction in GP-8, GP-9, GP-10, GP-11, GP-12, and GP-13.
- Lead concentrations in three samples exceeded 100 mg/l (landfill acceptance criteria). The three samples were analyzed by the toxicity characteristic leaching procedure (TCLP). The TCLP lead results were less than the landfill acceptance criteria of 5 mg/l.
- Free product was observed during the soil boring activities near the middle one-third of the site in GP-2, GP-3, GP-4, GP-9, and GP-10. Free product was observed in GP-5 during groundwater sampling activities (groundwater was not sampled in GP-5 due to the presence of free product). The eastern and western limits of free product appear to have been defined. It is unknown if the free product extends north of GP-10 onto the adjacent railroad property. Free product appears to extend off-site to the south under Selig Drive.
- Groundwater contamination (SVOCs, PCBs, and arsenic) exceeding WDNR standards is present in the western portion of the site. While groundwater samples were not collected from GP-6 and GP-7, the lack of detections in soil samples for VOCs, SVOCs, PCBs, and low metals concentrations suggests that groundwater in the vicinity of GP-6 and GP-7 is not contaminated.

To assist the WisDOT in determining environmental and financial liabilities associated with possible acquisition of the site, TRC prepared an Environmental Liability Financial Analysis. The information provided in the Environmental Liability Financial Analysis should be shared with the WisDOT real estate department. The Environmental Liability Financial Analysis for the site is provided in Appendix F.

Table 2
Groundwater Sampling Results Summary - Phase 3 Investigation
Former CMC Shops Wheelhouse Parcel Outlot 1
Milwaukee, Milwaukee County, WI
WisDOT I.D. 1060-27-00 TRC Project Number 232269.0000.0000

	NR 140 STANDARD		GP-1	GP-14	GP-15
	ES	PAL	SAMPLED 4/01/2015		
SVOCs (µg/l)					
1-Methylnaphthalene	-	-	2.2	<0.23	<0.24
2-Methylnaphthalene	-	-	2.1	0.19 J	0.26 J
Acenaphthene	-	-	1.5	<0.23	<0.25
Benzo(a)anthracene	-	-	0.42	<0.043	0.16
Benzo(a)pyrene	0.2	0.02	0.39	<0.075	0.30
Benzo(b)fluoranthene	0.2	0.02	0.71	<0.061	0.45
Benzo(k)fluoranthene	-	-	0.12 J	<0.049	<0.051
Chrysene	0.2	0.02	0.40 J	<0.052	0.21 J
Fluoranthene	400	80	1.1	<0.35	<0.36
Fluorene	400	80	0.51 J	<0.19	<0.20
Phenanthrene	-	-	0.88	<0.23	<0.24
Pyrene	250	50	0.92	<0.32	<0.34
VOCs (µg/l)					
1,2,4-Trimethylbenzene	480	96	90	<0.14	<0.14
1,3,5-Trimethylbenzene	480	96	23	<0.18	<0.18
Ethylbenzene	700	140	0.38 J	<0.13	<0.13
Isopropylbenzene	-	-	5.4	<0.14	<0.14
Naphthalene	100	20	2.2	<0.16	<0.16
n-Butylbenzene	-	-	5.1	<0.13	<0.13
N-Propylbenzene	-	-	8.9	<0.13	<0.13
sec-Butylbenzene	-	-	4.3	<0.15	<0.15
Xylenes	-	-	14	<0.068	<0.068
PCBs (µg/l)					
PCB-1254	0.03	0.003	4.8	<0.19	<0.20
Metals, Dissolved (µg/l)					
Arsenic	10	1	3.4	0.95 J	0.83 J
Barium	-	-	120	170	120
Chromium	100	10	<0.61	0.64 J	<0.61
Lead	15	1.5	0.14 J	0.61	0.46 J
Selenium	50	10	<0.83	0.97 J	2.0 J

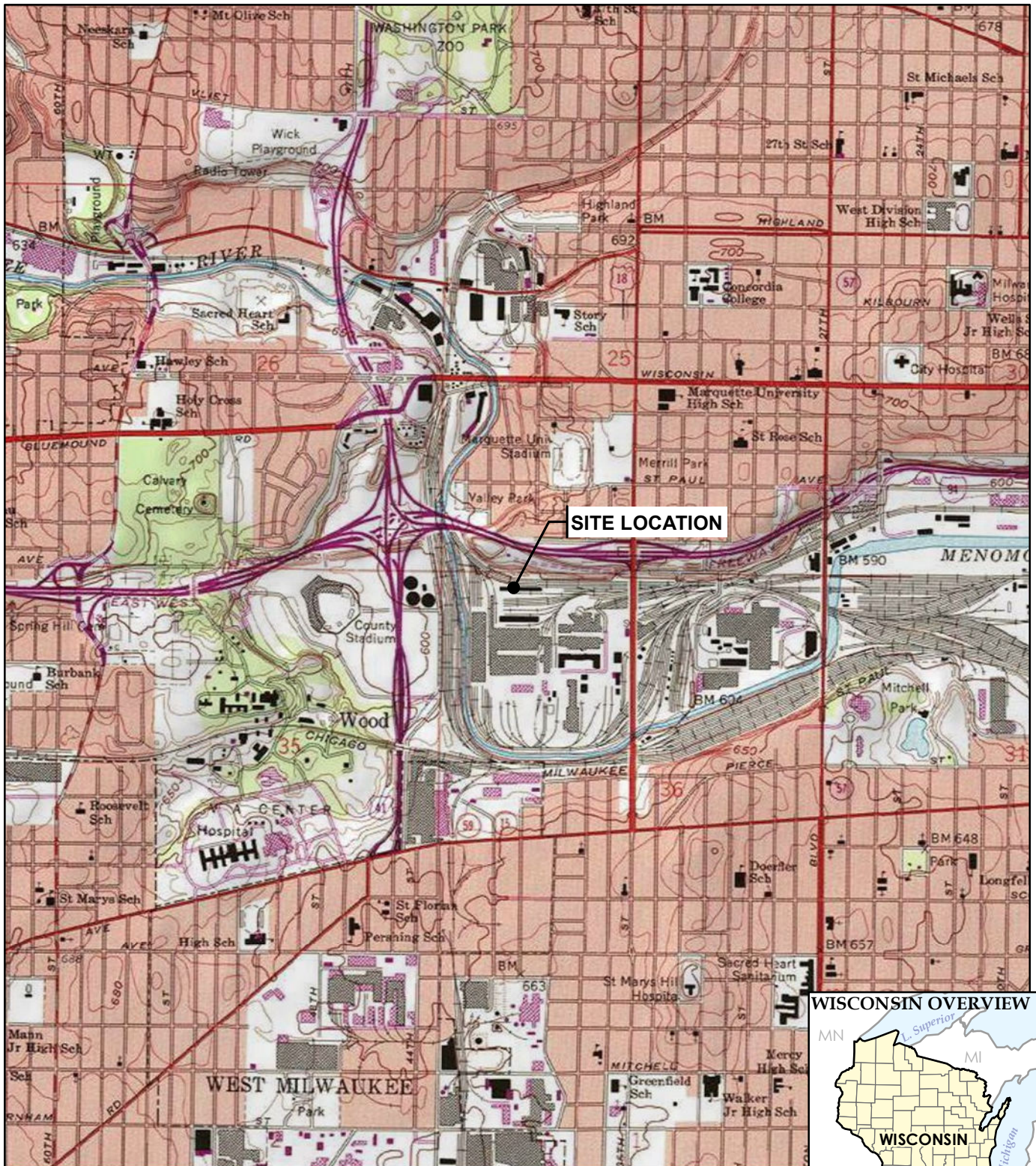
Notes:

- SVOCs = Semi-Volatile Organic Compounds analyzed using EPA Method 8270D; only the SVOCs detected are listed above.
- VOCs = Volatile Organic Compounds analyzed using EPA Method 8260; only the VOCs detected are listed above.
- PCBs = Polychlorinated Biphenyls analyzed using EPA Method 8082
- µg/l = micrograms per liter
- NR 140 ES = Wisconsin Administrative Code Chapter NR 140 Enforcement Standard.
- NR 140 PAL = Wisconsin Administrative Code Chapter NR 140 Preventive Action Limit.
- = No Established Standard
- ND = Not detected in laboratory analysis
- = Not Analyzed
- J = Result is less than the reporting limit but greater than or equal to the method detection limit and the concentration is an approximate value.
- µg/l = micrograms per liter (ppb).
- Metals analyzed using EPA Method 6010, except for mercury which was analyzed using EPA Method 7470.
- BOLD** = Exceedence (or potential exceedence if J-flagged) of the NR 140, WAC ES.
- Italics* = Exceedence (or potential exceedence if J-flagged) of the NR 140, WAC PAL.
- A trip blank was shipped to the lab with the samples but the trip blank broke while in transit.

Created By: J. Leasia 4/16/2015

Checked By: C. Zingsheim 4/22/2015

TRC - GIS



BASE MAP FROM USGS 7.5 MINUTE TOPOGRAPHIC QUADRANGLE SERIES.



150 North Patrick Blvd.
Suite 180
Brookfield, WI 53045
Phone: 262.879.1212

WISDOT ID# 1060-27-00
3760 WHEELHOUSE ROAD- OUTLOT 1
MILWAUKEE, MILWAUKEE COUNTY, WISCONSIN

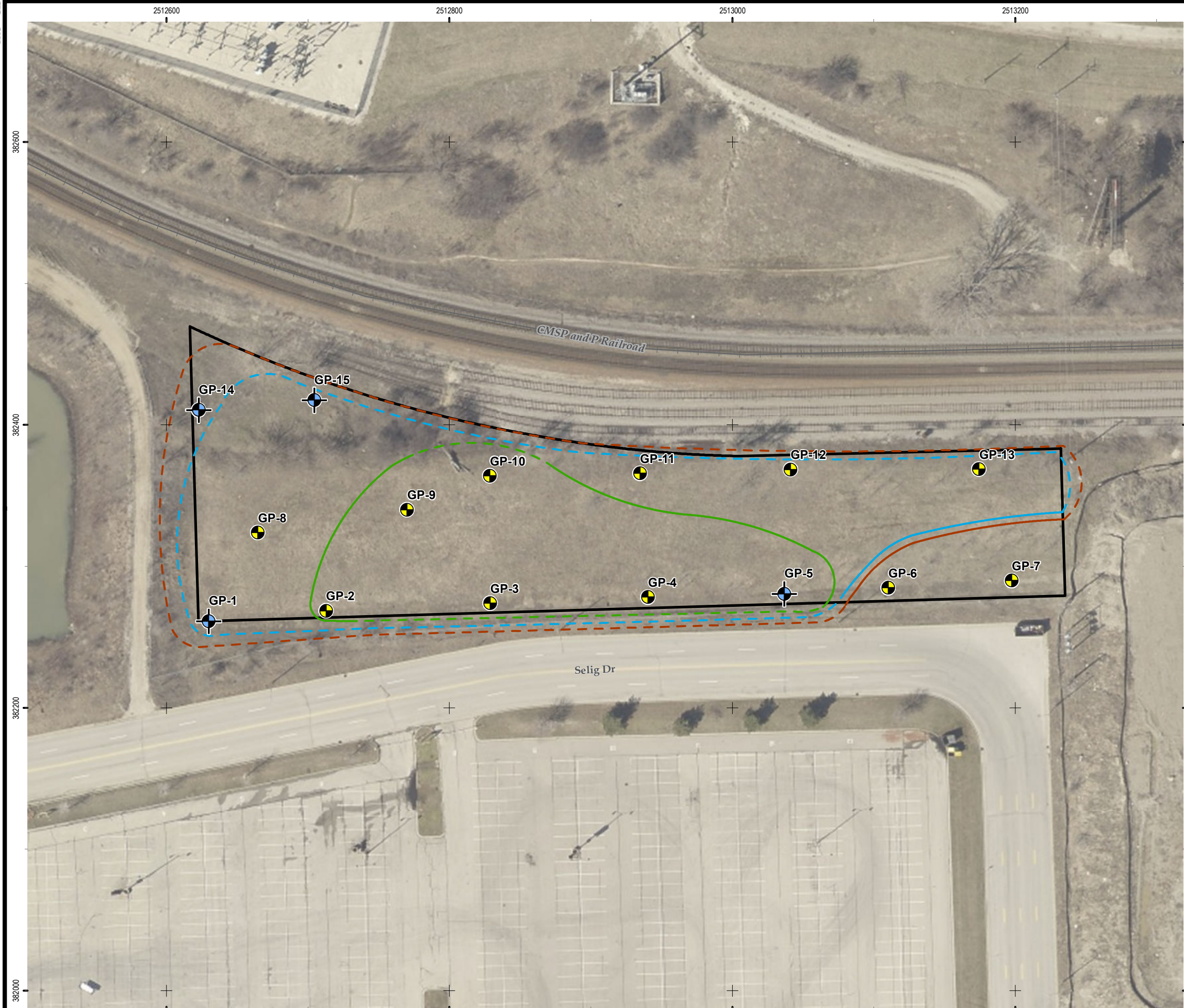
SITE LOCATION MAP

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APPROVED BY:	MORSE J
PROJECT NO:	232269
FILE NO.	232269-001slm.mxd
DATE:	APRIL 2015

FIGURE 1

Coordinate System: NAD 1983 StatePlane Wisconsin South FIPS 4803 Feet (Foot US)
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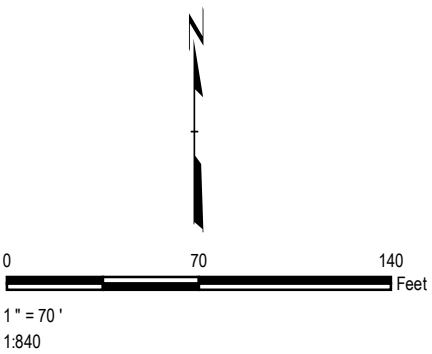


LEGEND

- SOIL BORING
- SOIL BORING/TEMP WELL
- APPROXIMATE EXTENT OF FREE PRODUCT
- APPROXIMATE EXTENT OF GROUNDWATER CONTAMINATION
- APPROXIMATE EXTENT OF SOIL CONTAMINATION
- SITE PROPERTY BOUNDARY

NOTES

- BASE MAP IMAGERY FROM ESRI/MILWAUKEE COUNTY, PICTOMETRY, 2013.
- GP-9 HIT REFUSAL AT 7' BGS AND DUE TO THE PRESENCE OF FREE PRODUCT AT DEPTHS IN GP-2, GP-3, AND GP-10 IT MAY ALSO BE PRESENT IN THE VICINITY OF GP-9.
- MAP PROJECTION AND GRID COORDINATES ARE NAD83 STATE PLANE WISCONSIN- SOUTH, US SURVEY FEET.
- PARCEL BOUNDARY ACQUIRED FROM MILWAUKEE COUNTY GIS.



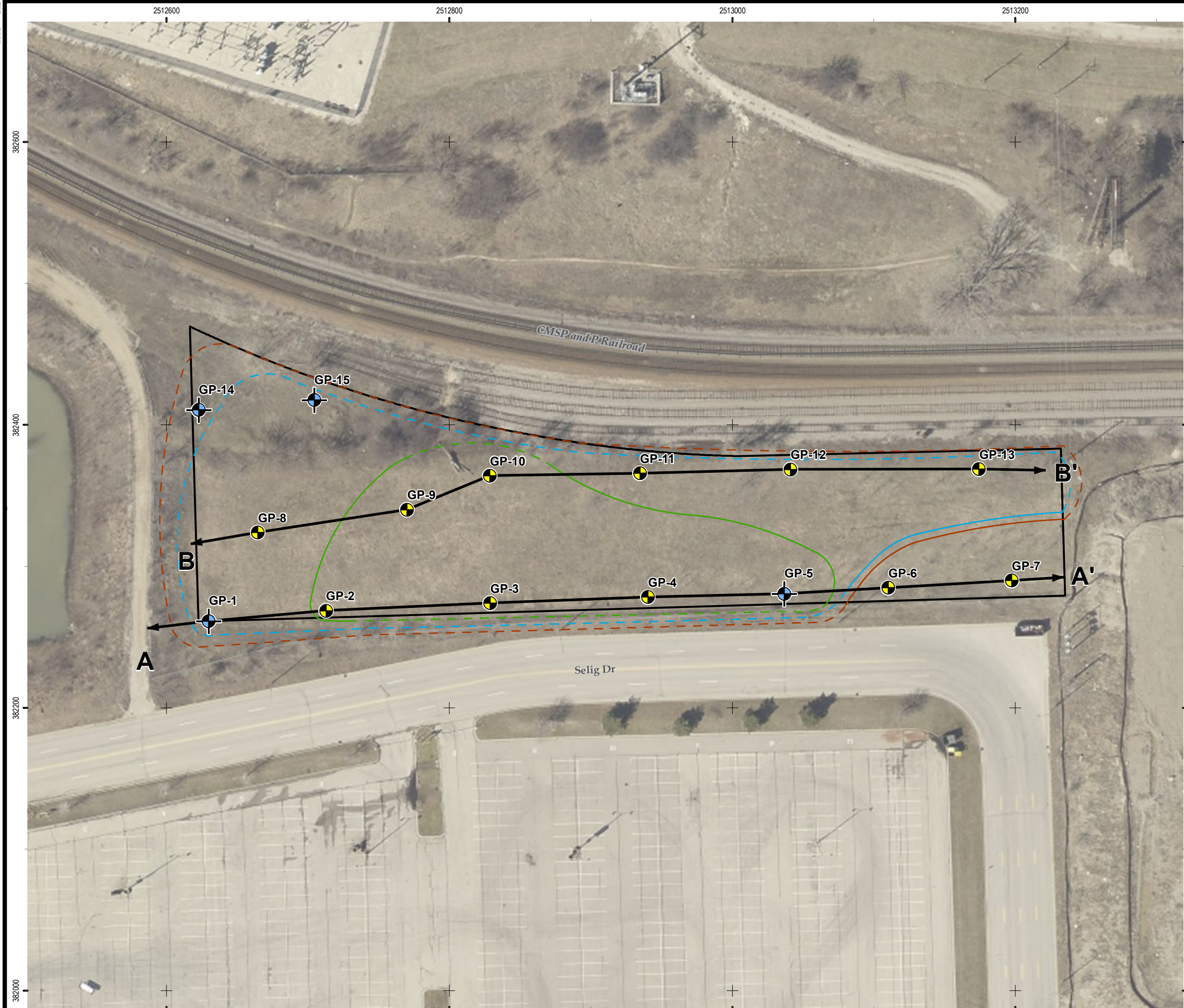
PROJECT: WISDOT ID# 1060-27-00 3760 WHEELHOUSE ROAD- OUTLOT 1 MILWAUKEE, MILWAUKEE COUNTY, WISCONSIN		
SHEET TITLE: PHASE 3 SOIL PROBE AND TEMPORARY WELL LOCATIONS		
DRAWN BY: RHODE B	SCALE: 1: 840	PROJ. NO. 232269
CHECKED BY: BERGMANN B		FILE NO. 232269-002.mxd
APPROVED BY: MORSE J	DATE PRINTED:	FIGURE 2
DATE: APRIL 2015		



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Coordinate System: NAD 1983 StatePlane Wisconsin South FIPS 4803 Feet (Foot US)
Map Rotation: 0

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LEGEND

SOIL BORING

SOIL BORING/TEMP WELL

CROSS SECTION LOCATION

APPROXIMATE EXTENT OF FREE PRODUCT

APPROXIMATE EXTENT OF GROUNDWATER CONTAMINATION

APPROXIMATE EXTENT OF SOIL CONTAMINATION

SITE PROPERTY BOUNDARY

- NOTES
1.

BASE MAP IMAGERY FROM ESRI/MILWAUKEE COUNTY, PICTOMETRY, 2013.
2.

GP-9 HIT REFUSAL AT 7' BGS AND DUE TO THE PRESENCE OF FREE PRODUCT AT DEPTHS IN GP-2, GP-3, AND GP-10 IT MAY ALSO BE PRESENT IN THE VICINITY OF GP-9.
3.

MAP PROJECTION AND GRID COORDINATES ARE NAD83 STATE PLANE WISCONSIN- SOUTH, US SURVEY FEET.
4.

PARCEL BOUNDARY ACQUIRED FROM MILWAUKEE COUNTY GIS.

0

70

140

Feet

1" = 70'

1:840

PROJECT:

WISDOT ID# 1060-27-00
3760 WHEELHOUSE ROAD- OUTLOT 1
MILWAUKEE, MILWAUKEE COUNTY, WISCONSIN

SHEET TITLE:

GEOLOGIC CROSS SECTION LOCATION

DRAWN BY: RHODE B

CHECKED BY: BERGMANN B

APPROVED BY: MORSE J

DATE: APRIL 2015

SCALE: 1: 840

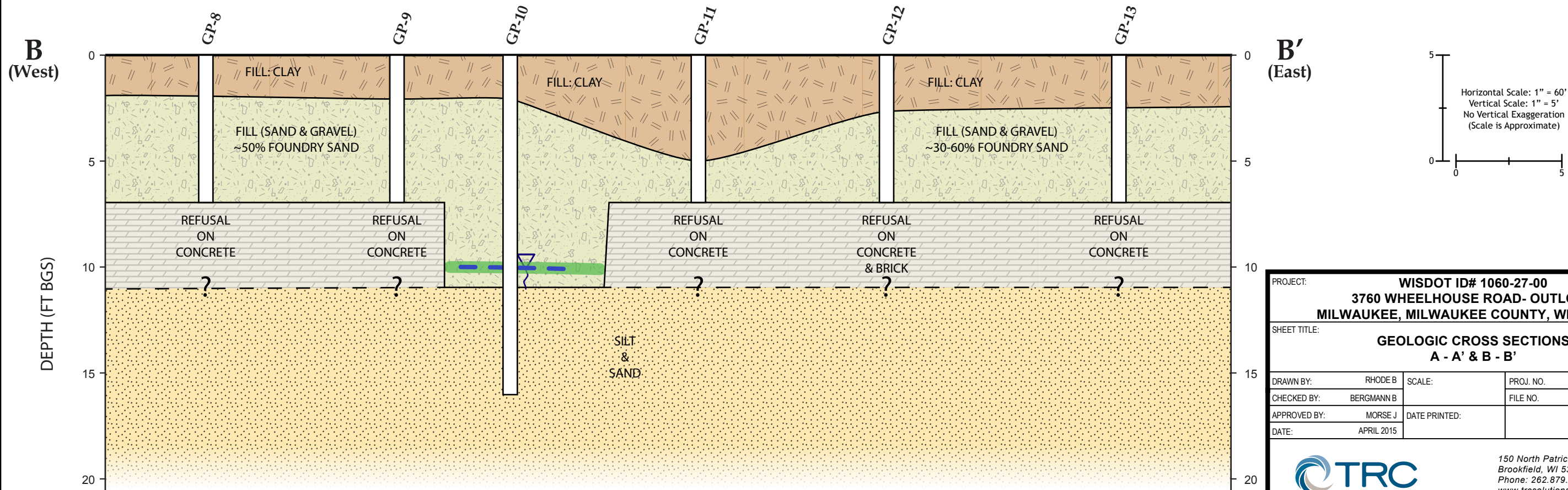
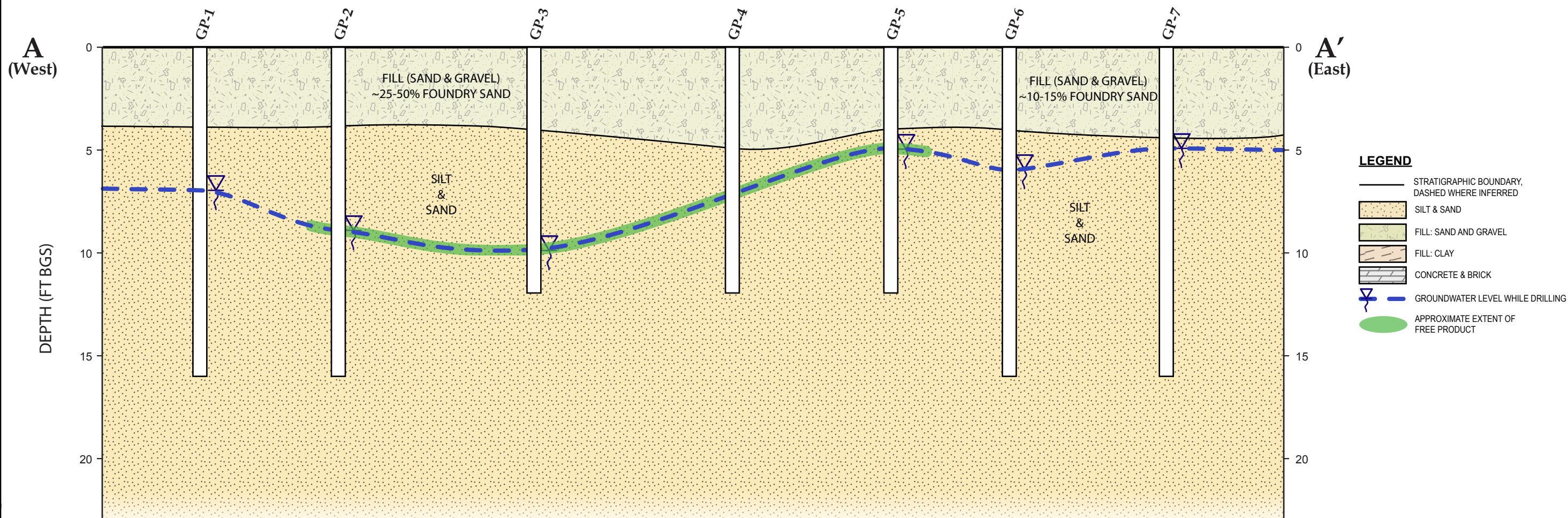
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PROJ. NO. 232269

FILE NO. 232269-004.mxd

FIGURE 3

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PROJECT: WISDOT ID# 1060-27-00		
3760 WHEELHOUSE ROAD- OUTLOT 1		
MILWAUKEE, MILWAUKEE COUNTY, WISCONSIN		
SHEET TITLE: GEOLOGIC CROSS SECTIONS A - A' & B - B'		
DRAWN BY: RHODE B	SCALE:	PROJ. NO. 232269
CHECKED BY: BERGMANN B		FILE NO. 232269-ai001.ai
APPROVED BY: MORSE J	DATE PRINTED:	FIGURE 4
DATE: APRIL 2015		



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Brookfield, WI 53045
Phone: 262.879.1212
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Appendix A

Historical Information

Site Number: 200
Site Name: MENOMONEE VALLEY / FORMER CMC
Site Address: 3301 W CANAL STREET, MILWAUKEE, WI

Database: AST, CERCLIS-NFRAP, CESQG, ERP, FINDS, MANIFEST, SHWIMS, SPILLS, US BROWNFIELDS, UST

Real Estate Requirements: None - Not Finalized

Construction Requirements: Anticipated - Not Finalized

This listing is also associated with the following site numbers: 194, 195, 196, 201, and 203. This site is part of the Former Milwaukee Road Shops. The a portion of this site was identified as Area A, CMC Real Estate Corporation, and included 3601, 3902, and 3909 W Canal Street, in the March 1992, *Preliminary Summary of Phase I Environmental Investigations, Wisconsin DOT ID 1061-08-03 East-West Freeway I-94 and USH 41 Brewers Stadium Infrastructure Milwaukee County* by RMT, Inc. The site is listed in the BRRTS as 3301 W Canal Street and currently includes parts of several parcels owned by several organizations. The site extends from the Menomonee River on the west side to the Falk Corporation (Site 205) on the east. The Miller Park East Parking Lot is included within this site. The site is the Milwaukee Road Shops on the 1968, 1950, 1927, and 1910 Sanborn maps. Site reconnaissance revealed sumps and monitoring wells within the Miller Park parking lot, within Selig Drive and on the properties to the east of the east parking lot. The industrial development park to the east of the Miller Park parking lot is approximately 8 feet above normal grade.

According to the DATCP AST database one (1) 550 gallon waste/used motor oil AST was closed by removal on January 9, 2004.

The CERCLIS-NFRAP Site Database includes CERCLIS sites that have been removed from CERCLIS. These may be sites where following an initial investigation, no contamination was found, the sites were cleaned up or the contamination was not serious enough to require Federal Superfund Action. CMC Waste Water Treatment is listed on the CERCLIS-NFRAP. The site does not qualify for the NPL based on existing information.

CMC Waste Water Treatment is listed as a CESQG with no violations. The site was historically listed as a LQG on August 18, 1980, and March 1, 1992. Listed wastes include: D000 Not Defined, D001 Ignitable Hazardous Wastes, D002 Corrosive Hazardous Wastes, and F001 Spent Halogenated Solvents.

Review of available ERP files (02-41-000228) indicate soil and groundwater contamination resulted from activities located at the former Milwaukee Road Shops. According to the May 1, 1996, STS Consultants Ltd., *Groundwater Monitoring Investigation Report for CMC Shops Site in Milwaukee, Wisconsin*, site redevelopment included demolition of onsite buildings, removal of all railroad trackage and ties and an environmental site investigation. Contamination at the site includes diesel fuel free product, CVOCs,

lead, and PAHs. The site is capped with asphalt or several feet of fill. Groundwater flow direction is generally towards the Menomonee River. Onsite soils include up to 15 feet of fill material including foundry sands. The Menomonee River was diverted from its original path and the river bed was filled. The ERP site is listed as open and is under WDNR jurisdiction.

CMC Waste Water Treatment is listed on the FINDS database under WI-ESR, AFS, and RCRA.

The MANIFEST database is a listing of sites that generate hazardous waste manifests. Hazardous waste manifests were generated at the site in 2004.

The SHWIMS database lists the site as an inactive Hazardous Waste Generator – Small, active Hazardous Waste Generator – Very Small, and an inactive Hazardous Waste Off-Site Wastewater Treatment Unit. There are no listed wastes.

According to the SPILL listing (04-41-037225) an undetermined quantity of chemicals were spilled due to a leaking valve on a tank car on February 24, 1978. The spill occurred on the soil and absorbents were used to clean up the spill. The spill is listed as historic and is under WDNR jurisdiction.

According to the SPILL listing (04-41-037705) an undetermined quantity of chemicals were spilled due to a broken valve on a tank car on June 28, 1979. Surface water was affected and absorbents were used to clean up the spill. The spill is listed as historic and is under WDNR jurisdiction.

Airline Yards is listed in the US BROWNFIELDS database based upon several state and federal brownfield remediation grants/loans that the Milwaukee Department of City Development received for the redevelopment of the site.

According to the DATCP UST database one (1) 6,000 gallon waste/used motor oil UST was closed by removal on September 16, 1988; two (2) 10,000 gallon unknown content UST and one (1) 22,000 gallon waste/used motor oil UST were removed on December 1, 1988; and one (1) 550 gallon chemical UST and one (1) 5,000 gallon fuel oil UST were closed by removal on January 9, 2004.

Himalayan contacted Dave Misky of the Redevelopment Authority of the City of Milwaukee, and conducted an interview related to Site 200. Mr. Misky indicated that the City of Milwaukee has owned the property for approximately eleven years and the site has been a vacant lot for that time. He indicated that the site was formerly part of a rail yard. He was not aware of any environmental concerns related to the site.

Based upon anticipated construction requirements for the 35th Street Bridge within the former Milwaukee Road Shops area, a Phase 2.5 is recommended for both alternatives.

Jim Schmidt

State of Wisconsin

CORRESPONDENCE/MEMORANDUM

Date: February 13, 1995

File Ref: Milwaukee Co.
ERR/ERP
FID#241615110
FID#241012750

To: Senator Gary George

From: Secretary George E. Meyer

Subject: Milwaukee County Stadium Site and Adjacent Areas

The information presented below is a summary and collation of the Department files involving the Milwaukee County Stadium Project Area. Some of the information was derived from investigations conducted by Department of Health and Social Services (DHSS) on property previously considered for a prison and from the Chicago-Milwaukee Corporation (CMC) property through site remediation investigations. The remainder of the information was submitted to this agency by the Wisconsin Department of Transportation (WDOT) as a result of their environmental investigations conducted on the East-West Freeway (I-94 and US 41) and the Brewers Stadium Infrastructure Project. WDOT is currently in the process of preparing an Environmental Impact Statement (EIS) coordinating the proposed transportation improvement projects along I-94 (including the Stadium Interchange/US 41) with the Brewer's Stadium project.

The area of the Menomonee Valley near the existing and proposed Brewer's Stadium site has a variety of owners. The current study site has been divided up by land owners, please see the attached site diagram.

<u>AREA</u>	<u>OWNER</u>
A	CMC Real Estate Corporation
B	State of Wisconsin (DHSS)
C	State of Wisconsin (DHSS)
D	CMC Real Estate Corporation
E ₁	Stimac Brothers Corporation
E ₂	Lewinsky Iron and Metal Co. Inc.
F ₁	MMSD
F ₂	Soo Line Railroad Co.
F ₃	City of Milwaukee Dept. of Public Works
F ₄	Veterans Administration
F _{5a} -F _{5f}	Milwaukee County Dept. of Parks, Recreation and Culture
G	Menomonee River

Investigation activities and some remediation activities have been undertaken by CMC Real Estate Corporation on the property designated as area A. The WDOT has investigated the areas designated as B, C, D (partial), E₁, F₁, F₄, F_{5a&c}, and G.

The following is a general summary of the data the Department has received to date.

Areas A, B, C, and D were part of the former Milwaukee Road Railroad Yard. Phase one information in these areas indicated potential releases from petroleum (lubricating oil, diesel, fuel, fuel oil, etc.), PCB's, solvents, and degreasers (painting operations), miscellaneous chemical usage that included sodium as part of

the compound, possible metals constituents in the various fill materials (foundry sand, ash, cinders), and lead-based painting.

Area A (owned and investigated by CMC Real Estate Corp.) results indicate petroleum impacts exist in the soils. However, there were no PCBs above clean-up standards found. There were some areas of Volatile Organic Compound (VOC) impacts and one area where lead concentrations exceeded the hazardous waste extraction criteria. Groundwater was detected at 2.5 to 11 feet below ground surface and generally flows to the Menomonee River. Groundwater is present in the fill materials throughout the site. Free petroleum product was discovered in two locations. Otherwise benzo(a)pyrene was the only enforcement standard exceedance. Free product and lead removal are on-going.

Areas B and C (DHSS property investigated by WDOT) results identified 1.5 - 7.5 feet of fill including foundry waste and scrap metal. Soils in this area have quantifiable concentrations of diesel range organics (DRO) above our interim soil clean-up standards, total recoverable petroleum hydrocarbons (TRPH), VOCs, polycyclic aromatic hydrocarbons (PAHs), and metals, especially lead. PCBs were not detected in any of the samples. Groundwater in this area was encountered at 7.7 to 16.5 feet below ground surface. Some impacts to groundwater were noted below applicable enforcement standards. Bis(2-ethyl hexyl)phthalate was detected in two of the wells, however, there is no current standard for this compound.

Area D (CMC Real Estate Corporation) results indicate that DRO, arsenic, barium, and chromium are present in the soils. No groundwater sampling was undertaken.

Areas E₁ and E₂ are the locations of current salvage yards but were previously part of the railroad yard. The same concerns were present here as with areas A, B, C, and D. Additional information was collected relative to underground storage tanks on or adjacent to the properties. The results of sampling done on the salvage yard property E₁ indicated contamination from petroleum products, PCBs, VOCs, and lead and chromium. No groundwater sampling was performed. Access was not granted to WDOT for sampling in area E₂.

Areas F₁ and F₂ (MMSD and Soo Line) also previously contained railroad lines and were evaluated for potential impacts from fill material at the site. Some foundry waste was detected in area F₁. Soil sample results indicate contamination from DRO, PAH's, VOCs, and lead. The areas of F₂ and F₃ were not investigated due to their similarity to areas B and C and the inability to gain access to area F₂.

Two disposal sites are known to have existed in the area of F₄ (Veteran's Administration). These included an incinerator ash site and a small general solid waste dump site. These areas were evaluated for potential future excavation. The only results available in this area indicate that no Toxicity Characteristic Leaching Procedure (TCLP) volatiles, semi-volatiles or lead are present.

The area of F_{5a} (Stadium and adjacent parking) is reported to have previously been a landfill. Methane gas monitoring was included in this area. Area F_{5c} (parking) was formerly used as a salvage yard and therefore the analysis was similar to areas E₁ and E₂. Based on Phase I investigation findings no Phase II field work was performed in areas F_{5b}, F_{5d}, and F_{5e}. Petroleum contamination was detected in area F_{5c} (PCBs were not sampled for in this area). None of the samples contained detectable concentrations of TCLP volatiles or semivolatiles. However, the soil samples did contain concentrations of lead, chromium, and mercury that could potentially characterize the soil as hazardous waste. A small number of subsequent samples would likely classify the fill as hazardous waste. Groundwater exceedances were only detected for sulfate and chloride.

Methane occurrences were also investigated in these areas. Results of the gas probe and utility conduit monitoring identified an area in the current center field parking lot with methane concentrations ranging from 30 - 35 percent by volume. Gas probes to the east, south, and west of this area had methane concentrations ranging from 5 - 15 percent. The remaining gas probes had methane concentrations less than 5 percent. In addition, 56 utility conduits were also sampled for methane. Six of the 56 conduits had detectable concentrations of methane.

The Menomonee River (area G) samples were analyzed based on the adjacent property use. The results indicate that TRPH, DRO, arsenic, barium, chromium, copper, iron, manganese, nickel, and zinc were present in all six samples. Lead, mercury, 4,4,-DDT, and PAHs were also detected. Lead, zinc, DDT, and PAHs were detected at levels above the action levels of contaminants in dredged material contained in the Southeast District Dredge Committee Report. There are no stated levels for TRPH or DRO. No point source for river contaminants was identified. The concern here would be regarding site development activities that may cause disturbance and potential resuspension of impacted sediments.

The intent of the current level of sampling was not to determine the full nature and extent of any potential impacts but only to begin the assessment of any such impacts. The remedial options for the entire area will vary. Responses could range from excavation to infiltration control and monitoring. Remedial activities are ongoing at the CMC Real Estate Corporation property. More detailed information is available in the ERRP (Emergency and Remedial Response Program) files at the Department's District Annex office.

TECHNICAL MEMORANDUM



TO: Bizhan Sheikholeslami - WDNR

FROM: Thomas W. Kroeger - STS Consultants Ltd. *WB/TWK*

DATE: January 20, 1999

RE: Test Pit Investigation Summary, CMC Shops Site, 3301 W. Canal Street, Milwaukee, WI - STS Project No. 84113XC

CC: Margarete Graefe - WDNR
Charles Harrison - CMC Heartland Partners

STS Consultants Ltd. (STS) has prepared this memorandum to document the test pit activities recently completed at the above referenced site. As you recall, WDNR verbally requested a limited test pit investigation to verify the presence and viscosity of diesel fuel free product the vicinity of Diesel House #3 and to supplement the following two STS reports currently undergoing review at WDNR:

- Closure Plan - East Parcel dated April 28, 1998.
- Data Submittal and Work Plan - Request for Exemption to Construct on an Abandoned Landfill - East Parcel dated April 28, 1998.

The free product extent in this area was previously documented by STS during investigation activities completed in the early 1990's and is discussed in detail in the STS report entitled "Free Product Investigation, Interim Removal and Proposed Remedial Action" dated October 12, 1992. The following presents a brief summary regarding the procedures used and observations made during the recent activities.

Test Pit Procedures

The test pit investigation was conducted on December 16, 1998. The following parties were involved and/or present at the site during the field activities:

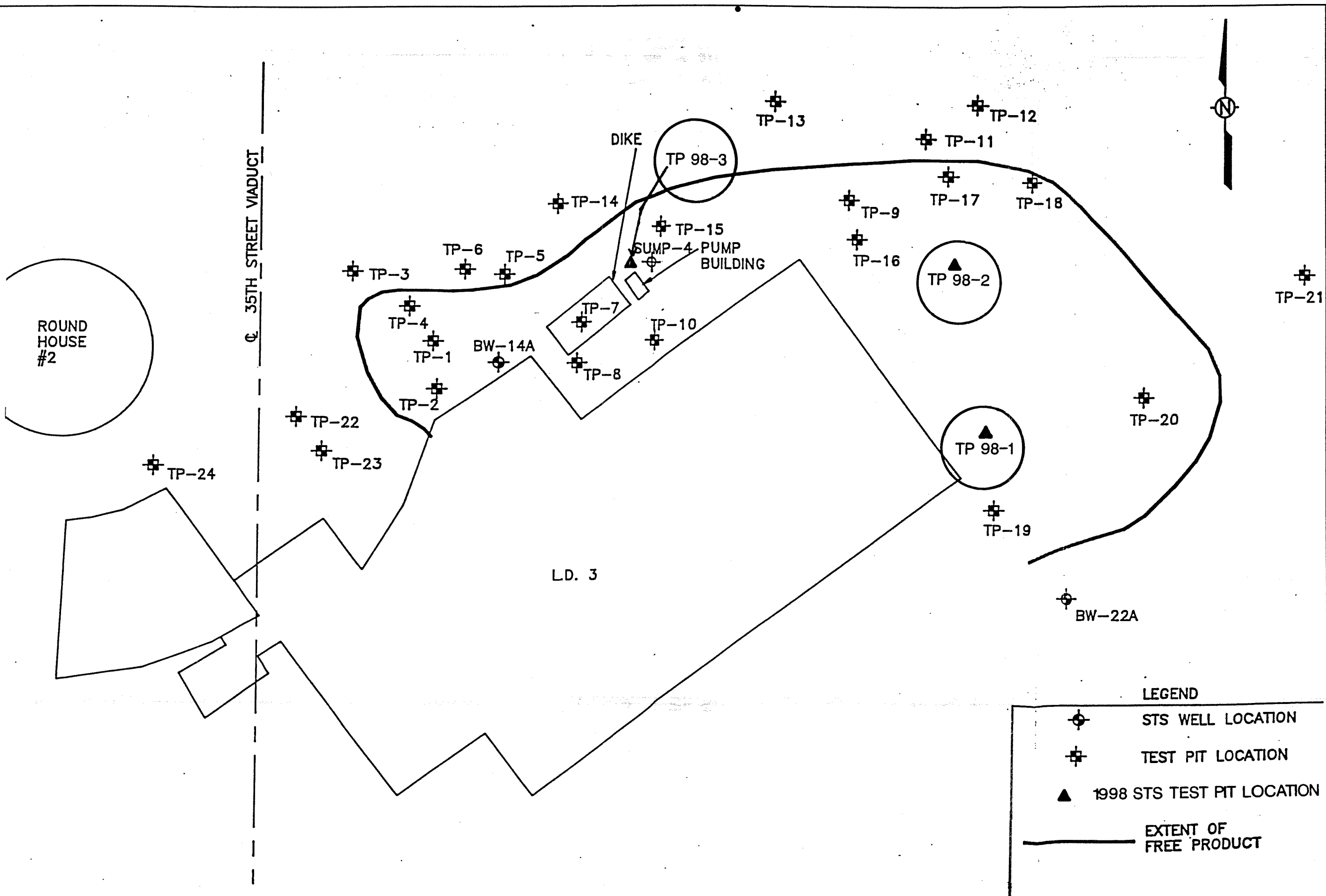
<u>Company/Agency</u>	<u>Personnel</u>	<u>Relationship</u>
STS Consultants:	Dave Markelz Thomas Kroeger	Consultant - Field Tech. Consultant - Proj. Principal
Midwest Rail/Dismantling:	Todd Puccine	Subcontractor - Operator
CMC Heartland Partners:	Charles Harrison	Site Owner - Legal Counsel
WDNR:	Bizhan Sheikholeslami	Regulatory Agency Rep.

The field activities consisted of excavating three test pits (TP98-1 through TP98-3) within the previously delineated free product area using a track-driven hydraulic backhoe. Figure 1 (attached) illustrates the free product limits and the three test pit locations. The test pits were excavated to 10 feet below ground surface or to below the free product/water interface. While excavating, a test pit log describing the soil profile was prepared by an STS Technician at each location. Following the excavation activities, the test pits were left open for approximately 45 minutes (TP98-3) to 2 hours (TP98-1) for general observation and subsequently backfilled with the excavation spoils.

Test Pit Observations

In general, the soil profiles at each location were similar and consisted 5 to 7 feet of silty sand and gravel fill with traces of wood, cinders and foundry waste followed by inter-bedded (naturally deposited) alluvial sand/gravel and estuarine organic silt deposits. Groundwater was encountered at approximately 6 to 7 feet below ground surface. Significant black staining, strong diesel odor and a thin film of free product (on the free water surface) were also observed at each location. These observations fall within the range of observations made during the original investigation. Additional detail regarding the test pit observations is presented on the attached test pit logs. A photo log documenting the observations at each location is also attached.

Please contact us with any questions at your convenience.



LEGEND

- STS WELL LOCATION
- TEST PIT LOCATION
- 1998 STS TEST PIT LOCATION
- EXTENT OF FREE PRODUCT



STS Consulting Engineers

TEST PIT LOCATION DIAGRAM

DIESEL HOUSE #3 AREA

EAST PARCEL

CMC MILWAUKEE SHOPS

MILWAUKEE, WISCONSIN

DRAWN BY: DLM	DATE: 1/14/99
CHECKED BY: TWK	DATE: 1/15/99
FILE NO. 84113XCFIG.doc	SCALE: 1" = 50'
STS PROJECT NO. 5-84113XC	FIGURE NO. 1

STS Construction Services Group Test Pit Field Record

TEST PIT NO. 98-1



Project CMC

STS Project No. 84113xc

TASK 8000

Location Milwaukee WI

Date 12/16/98

Weather <u>35 - overcast</u>				EXCAVATION EQUIPMENT				
Time Started <u>11:15</u>		contractor <u>Midwest Rail</u>		make <u>Link Belt</u>				
Time Completed <u>11:30</u>		operator <u>Todd</u>		model <u>LS 4300</u>				
Ground Elevation _____		capacity <u>1 cy</u>		c.y. reach <u>20</u>		ft.		
DEPTH	QP	DCP	SAMPLE NO.	Soil Description	water cont.	excav. effort	boulder count Qty. Cl.	remark no.
0'				Fill: Fine to coarse SA - little cr gr -				
1'				Brown - moist				
2'								
3'				Fill: Silty Sand, gravel mix with				
4'				Cinders, wood pieces - br brick - black, stained (strong diesel odors noted)				
5'								
6'				organic Silt, Grey moist to wet				
7'				 Silty Sand and gravel mixed with concrete pieces, wood - large stone/gravel Black staining - Sheen noted on water table - strong petroleum/diesel odor noted				
8'								
9'				End of test pit				
10'								
11'								
12'								
13'								
14'								

REMARKS:

QP = Calibrated Penetrometer (tons/ft²)
DCP = Dynamic Cone Penetrometer (Blows/6")

PROPORTIONS USED

trace(tr.) 0-10%
little(lt.) 10-20%
some(so.) 20-35%
and 35-60%

ABBREV.

F—Fine
M—Medium
C—Course
V—Very
Gr.—Gray
Bn.—Brown
Yel.—Yellow

EXCAVATION EFFORT

E—Easy
M—Moderate
D—Difficult
GROUNDWATER
Elapsed time to reading  (hrs.)
G.W.L.

STS Construction Services Group Test Pit Field Record

TEST PIT NO. 98-2



Project CMC STS Project No. 84113XL

Location Milwaukee WI Date 12/16/98

Weather <u>35 / overcast</u>				EXCAVATION EQUIPMENT				
Time Started <u>11:35</u>		contractor <u>midwest Rail</u>		make <u>Link Belt</u>				
Time Completed <u>11:50</u>		operator <u>Todd</u>		model <u>LS 4300</u>				
Ground Elevation _____		capacity <u>1.0 c.y.</u>		reach <u>20</u>		ft.		
DEPTH	QP	DCP	SAMPLE NO.	Soil Description	water cont.	excav. effort	boulder count Qty. Cl.	remark no.
0				Fill: Fine to Coarse Sand and gravel - brown moist -				
1'								
2'				Fill: Fine to coarse Silty sand and gravel, some large gravel, bricks trace wood - (Strong diesel odor)				
3'				black stained soils				
4'								
5'								
6'								
7'				Organic silt, some Fine to coarse sand - grey moist to wet. Strong diesel odor				
8'								
9'				- Sheen / Product noted on 50% of free water surface				
10'								
11'				End of TEST PIT				
12'								
13'								
14'								

REMARKS:

QP = Calibrated Penetrometer (tons/ft²)
DCP = Dynamic Cone Penetrometer (Blows/6")

PROPORTIONS USED

trace (tr.) 0-10%
little (lt.) 10-20%
some (so.) 20-35%
and 35-50%

ABBREV.

F - Fine
M - Medium
C - Coarse
V - Very
Gr. - Gray
Bn. - Brown
Yel. - Yellow

EXCAVATION EFFORT

E - Easy
M - Moderate
D - Difficult
GROUNDWATER
Elapsed (hrs.)
time to reading G.W.L.

STS Construction Services Group

Test Pit Field Record

TEST PIT NO. 98-3



Project Cmc

STS Project No. 84311xc

Location Milwaukee WI

Date 12/16/98

Weather 35 / overcast

EXCAVATION EQUIPMENT

Time Started 13:10 contractor Midwest Rail make Link Belt

Time Completed 13:20 operator Todd model LS 4300

Ground Elevation _____ capacity 1.0 c.y. reach 20 ft.

DEPTH	QP	DCP	SAMPLE NO.	Soil Description	water cont.	excav. effort	boulder count Qty. Cl.	remark no.
0				Fill: Fine to Cr Sand, Soggy to moist				
1'				Fill: F-c SA and gr- some cinders, larger gravel, black, stained heavy diesel odor -				
2'								
3'								
4'								
5'								
6'								
7'				▽ = F-c SA and gravel - Oily water w/ sheen - Black stained heavy diesel odor				
8'				organic SA silt - grey - moist to saturated				
9'								
10'				End of TEST PIT				
11'								
12'				- drain Tile exposed Along South wall (Approx 12' dia) 5-6' by 5'				
13'				- 3" diameter metal piping noted in Spoil pile,				
14'								

REMARKS:

QP = Calibrated Penetrometer (tons/ft²)

DCP = Dynamic Cone Penetrometer (Blows/6")

PROPORTIONS USED

trace (tr.) 0-10%
little (lt.) 10-20%
some (so.) 20-35%
and 35-50%

ABBREV.

F-Fine
M-Medium
C-Course
V-Very
Gr.-Gray
Bn.-Brown
Yel.-Yellow

EXCAVATION EFFORT

E-Easy
M-Moderate
D-Difficult
GROUNDWATER
Elapsed (hrs.)
time to reading ▽ G.W.L.

Mailed

4/24

K
220 East Ryan Road
Oak Creek, WI 53154-4533
414-768-7144
FAX: 414-768-7158

April 24, 2000

Project Reference #6011

Dr. Rudy Salcedo
City of Milwaukee
Department of City Development
809 North Broadway
Milwaukee, WI 53201

RE: CMC Shops Property

Dear Dr. Salcedo:

In response to Mr. Greg Shelko's letter to proceed, dated March 30, 2000, Sigma Environmental Services, Inc., (Sigma) has prepared this letter to provide: a summary of historical land use activities at the CMC Shops, Airline Yard, and Hump Yard Properties; a description of the environmental concerns associated with those activities; a brief description of how previous testing of the property addressed those concerns; and activities necessary to characterize the identified data gaps in accordance with ch. NR 700. The following presents this information:

PROPERTY DESCRIPTION

The CMC Shops property is located within the west end of the Menomonee River Valley just east of Miller Park. The property is approximately 110 acres in size and is bounded to the north by an active railroad line and Interstate Highway I-94, to the south by the Menomonee River, to the east by the Falk Corporation, and to the west by the Miller Park River East parking lot (Figure 1).

The CMC - Airline and Hump Yards are located south of the CMC Shops property along the south side of the Menomonee River (Figure 1). The Airline and Hump Yards are bounded to the north by the Menomonee River, to the south by commercial, industrial and residential properties, to the east by former rail yards and to the West by commercial properties.

The CMC properties are currently vacant and covered with vegetation as the majority of the manufacturing and office buildings have been razed and the railroad tracks have been removed.

SITE INVESTIGATIONS

Available site information includes: a draft *Environmental Impact Statement* prepared in 1978, "modified" Phase I Environmental Assessments, WDNR documentation of historic spills, several phases of soil and groundwater quality investigations, and site closure plans. The information documents several investigations completed on behalf of The Milwaukee Road and the State of Wisconsin. The State at one time owned the southern approximately ¼ of the site (Figure 1). A chronological summary of the available subsurface investigation documentation for the CMC Shops, Airline Yard and Hump Yard is presented in Appendix A.

I:\milwci\6011\report.wpd



Based on review of the available information, the site characteristics are summarized in the following sections.

SITE HISTORY

Development of the CMC Shops property began in the mid to late 1800's when the marsh and swamp of the western end of the Menomonee River Valley was filled and the Menomonee River was re-routed and channeled (Appendix A). Since the 1870's, the property was owned and operated as a rail car and engine construction/repair shop by the Chicago, Milwaukee, St. Paul and Pacific Railroad (Milwaukee Road). Manufacturing activities included: painting, upholstering, wood working, engine re-building, locomotive erecting, rail car erection, rail car repair, and a foundry. The Lapham Yard, located between 35th Street and the Davie's Car Yard was used for rail car switching and storage. The Airline and Hump Yards were used for rail car switching and through traffic. Operations at the facility ceased in the late 1980's.

The manufacturing areas are labeled on Figure 1 and described in Table 1. Review of the facility operations indicate diesel fuel and other petroleum products, as well as chemicals containing chlorinated volatile organic compounds (VOCs), and heavy metals were used extensively at the shops facility. For example, a 1978 environmental impact statement prepared by The Milwaukee Road, indicated that approximately 523,000-gallons of diesel fuel, 40,000-gallons of lube oil, 1000-gallons of cleaners containing chlorinated constituents and 3,500 pounds of trichloroethane per month were used at the facility in 1977.

GEOLOGY

The geology at the site can be described by three geologically and hydrogeologically distinct units. Fill material, the shallowest unit, is generally comprised of reworked clay, silt, sand, and gravel with inclusions of cinder, foundry material and general refuse. The fill material is present at the surface with thicknesses varying between 4 and 12 feet. Lake-related (estuarine) deposits are present beneath the fill material ranging in thickness from 8 to 30 feet. The deposits consist of a soft to stiff organic-rich silt, clayey silt, and/or silty clay. Across the Valley and beneath the shops property, glacial till is present beneath the estuarine deposits at thicknesses from 8 to 200 feet. The glacial till consists of unconsolidated deposits of loose to dense sand, silt and silty fine sand, and silty clay. Dolomite bedrock is present beneath the glacial till throughout the Menomonee Valley ranging at depths between 25 to 250 feet below ground surface (bgs). A geologic cross-section location map and the geologic cross-sections for the Shops property are presented as Figures 1 and 2, respectively.

HYDROGEOLOGY

Groundwater is present beneath the CMC Shops property at depths between six and seven feet bgs. Data indicates the direction of shallow groundwater flow is predominantly to the south-southeast toward the Menomonee River. Seasonal variations in water levels occur due to the close proximity of the Menomonee River. The relative depth to groundwater is indicated on the geologic cross-sections in Figure 2.

SOIL IMPACTS

CMC Shops Property

Investigation activities conducted at the CMC Shops property initially included soil sampling using a non-biased grid spacing strategy. Subsequent soil sampling focusing on further evaluating areas where impacts were found. The following sections present a summary of the investigation results.

Soil sample analyses completed during these phases of investigation included total petroleum hydrocarbon (TPH), volatile organic compound (VOC), polychlorinated bi-phenyls (PCBs), and RCRA metals.

A 1993 technical memorandum prepared by RMT, Inc. presented investigation activities completed on the southern one-quarter of the property (then owned by the State of Wisconsin). The State-owned land was characterized through the collection and analysis of select soil samples for diesel range organics (DRO), total recoverable petroleum hydrocarbons (TRPH), VOCs, PCBs, polynuclear aromatic hydrocarbons (PAHs) and eight RCRA metals.

It is important to note that the majority of the soil samples collected were only field screened and not laboratory analyzed. Therefore, Figure 1, presents only those soil boring/hand auger/test pit locations at which soil samples were collected and submitted for laboratory analysis or where geological information was used to construct the cross-sections.

A summary of the soil quality investigation results are presented below.

Petroleum Impacted Soil

Review of the available analytical data indicates that at the time of analysis soil impacted with petroleum-related compounds at concentrations greater than ch. NR 720 Cleanup Guidelines is present near the former fuel storage and dispensing areas. These areas, numbered as follows and shaded green on Figure 1, are:

- #1 Free phase thick hydrocarbon product located beneath and adjacent to the former Diesel House (building LD#3). This area appears to be well defined outside the former building footprint;

#2 The former diesel fuel storage and handling areas.

Chlorinated-VOC Impacted Soil

Review of the available analytical data indicates that soil impacted with low to moderate concentrations of chlorinated volatile organic compounds (VOCs) have been identified throughout the former CMC Shops property. Specifically, concentrations of methylene chloride ranging from 0.07 ppm to 2.7 ppm have been reportedly detected within soil samples collected across the facility.

In addition, relatively low (less than 1 ppm) concentrations of cis-1,2-dichloroethene, 1,1-dichloroethene, trichloroethene, and/or vinyl chloride were detected within soil samples collected from the former State of Wisconsin property.

RCRA Metal Impacted Soil

Review of the available analytical data indicates that soil impacted with arsenic and lead at concentrations greater than ch. NR 720 non-industrial direct contact generic soil cleanup guidelines have been identified in the shallow soil in the central and southern portions of the site. An estimated 85 cubic yards of soil impacted with lead has been identified as [characteristically] hazardous waste in an area south of the former electric shop. The lead-impacted area is shaded pink in Figure 1.

Concentrations of detected arsenic ranges from 1.3 ppm to 20 ppm within the former State of Wisconsin property. Non-hazardous concentrations of arsenic (7 ppm total, <0.02 TCLP) were also detected at soil boring B-15A near the former Power House (LD #32).

Airline and Hump Yards

Available information regarding environmental investigation and remediation activities includes: 1) WDNR documentation of actions taken to mitigate the release of ethylbenzene from a tanker car located in the Hump Yard in 1978 and 2) Key Environmental Services, Inc., and WDNR correspondence regarding the 1991 mitigation of a release from an abandoned trailer within the Airline Yard (beneath the 35th Street viaduct) which contained several drums and tanks of hazardous waste. The hazardous waste consisted of waste gasoline, motor oil and motor oil containing lead.

The details of the ethylbenzene release in the Hump Yard and the hazardous waste mitigation activities conducted within the Airline Yard are summarized in Appendix C.

Petroleum Impacted Soil

A figure showing the location of the ethylbenzene spill within the Hump Yard, although referenced, was not available. In addition, no subsurface investigation activities were conducted to verify the extent and/or remediation of the ethylbenzene spill which occurred within the Hump Yard. Therefore the location, extent and degree of residual soil and/or groundwater impact resulting from this release are unknown.

Petroleum impacted soil resulting from leakage of several drums containing waste gasoline and oil (lead bearing) was observed through visual staining beneath the abandoned trailer. Approximately 34 tons of petroleum impacted soil was excavated. A samples collected from the base of the excavation contained a concentration of 31.20 ppm total recoverable petroleum hydrocarbons (TRPH). No additional investigation and/or remediation information was available.

RCRA Metal Impacted Soil

Soil sampling to evaluate the extent of impact resulting from the abandoned trailer and associated release indicated that the impacted soil which was subsequently removed detected a concentration of 1,360 ppm total lead. Confirmation soil sampling conducted upon completion of the soil excavation activities indicated a residual total lead concentrations of 1.2 ppm.

A 4.4 mg/l TCLP concentration of arsenic was also detected within soil samples collected to characterize the release. No additional investigation and/or remediation information was available.

GROUNDWATER IMPACTS

CMC Shops Property

The most current groundwater quality information available are the results of a December 1997 sampling event. The analytical results indicate that petroleum-related compounds, chlorinated-VOCs, PAHs and/or metals including arsenic, barium and lead at concentrations greater than regulatory standards are present at most of the groundwater monitoring wells across the site (Figure 1).

Specifically, arsenic, polynuclear aromatic hydrocarbons (PAH's), and/or chlorinated VOC's in concentrations exceeding the ch. NR 140 (Wisconsin Administrative Code) Enforcement Standards have been identified in water samples collected from monitoring wells BW-4A, C101R, C-102, and C-103. Concentrations of arsenic greater than ch. NR 140 Enforcement Standards were detected at monitoring wells MW98-1, B-42 and MW98-3 and concentrations of select PAHs greater than ch. NR 140 Enforcement Standards were identified in monitoring well BW-22A. The reported groundwater monitoring well locations are presented in Figure 1.

Airline and Hump Yards

Based on review of the available information, no groundwater quality investigation activities were conducted within the Airline or Hump Yards.

METHANE INVESTIGATIONS

Due to the significant quantities of fill material placed at the site, as well as the presence of organic rich estuarine unit present beneath the site there exists the potential for methane generation. Based on review of the available information, no methane investigation activities have been conducted on the CMC Shops, Airline Yard or Hump Yard properties.

DATA GAPS

Review of the facility history, operations, and available soil and groundwater quality investigation results define the data gaps as: 1) areas of the facility where potential contaminants of concern, including methane, have not been evaluated and/or 2) areas of the facility where the degree and extent of impact has not been determined. A summary of the facility manufacturing and material handling areas, the corresponding potential contaminants of concern and the identified data gaps are summarized in Table 1.

SAMPLING STRATEGY

Based on review of the available site information the proposed site sampling plan presented below represents the scope of activities necessary to collect the site-specific information needed to address the site data gaps and develop a site Remedial Action Plan (RAP).

Soil Characterization

- ▶ 450 Sampling Points
 - 400 soil borings or equivalent
 - 50 monitoring wells
- ▶ Laboratory analysis
 - 650 soil samples for VOC, PAH, RCRA metals
 - 50 soil samples for cyanide and PCBs

Groundwater Characterization

- ▶ 13 existing monitoring wells
- ▶ 50 monitoring wells
- ▶ 10 piezometers
- ▶ One monitoring event
 - 73 groundwater samples for VOC, PAH, RCRA metals
 - 20 groundwater samples for ch. NR 140 listed herbicides and pesticides

Location and elevation survey of sampling points and monitoring wells

Methane investigation

The proposed methane investigation consists of monitoring subsurface vapors at 50 points for a period of two weeks to determine the potential for methane generation.

If you have any questions or need any additional information, please do not hesitate to call us at (414) 768-7144.

Sincerely,

SIGMA ENVIRONMENTAL SERVICES, INC.



Kristin Kurzka
Project Engineer



Paul Zovic, CHMM
Principal

Attachments

Figure 1 - Site Plan

Figure 2 - Geologic Cross Sections

Table 1 - Summary of Manufacturing Areas & Potential Contaminants of Concern

Appendix A - Historic River and Marsh Location

Appendix B - CMC Shops, Airline Yard, and Hump Yard - Chronological Summary of Investigations

Appendix C - Airline Yard Abandoned Trailer Site Figure

TABLE 1
FORMER CMC SHOPS
SUMMARY OF MANUFACTURING AREAS & POTENTIAL CONTAMINANTS OF CONCERN

Building/Operations	Activities	Potential Contaminants of Concern	Data Gaps	
			Soil	Groundwater
LD 34/LD 36 Locomotive Machine & Erecting Shop	* Soak tanks for governors & ejectors * Stripping tracks * Assembly tracks * Engine and generator removal * Vapor Degreaser * Hood and radiator repair * Accident repair & minor change outs * Air compressor repair * Cylinder block cleaning, rinsing & honing * Radiator cleaning, rinsing & repair * Engine block storage, engine reassembly * Locomotive truck changeout * Locomotive wheel grinding * Locomotive servicing, storage & some painting, suspension bearing oil holding	Fuels Oils Cleaners Paint	VOCs PAHs RCRA Metals	VOCs PAHs RCRA Metals
LD 35 Round House, Boiler Tin & Tank Repair Shop	* Locomotive car body, hood & engine washing * Locomotive truck component cleaning * Vapor degreaser * Truck assembly and disassembly, motor replacement, running maintenance, new journal oil soak tank and wick drain tank	Fuels Oils Cleaners Paint	VOCs PAHs RCRA Metals	VOCs PAHs RCRA Metals

TABLE 1
FORMER CMC SHOPS
SUMMARY OF MANUFACTURING AREAS & POTENTIAL CONTAMINANTS OF CONCERN

Building/Operations	Activities	Potential Contaminants of Concern	Data Gaps	
			Soil	Groundwater
LD-37 Locomotive Blacksmith Shop, Diesel Shop, Electrical Service	* Traction motor soak tank and rinse * Vapor degreaser * Electric Shop/battery storage	Fuels Oils Cleaners	VOCs PAHs RCRA Metals PCB's	VOCs PAHs RCRA Metals PCB's
CD-9 Car Erecting and Repair Shop, Wheel Shop	* Roller bearing cleaning * Magna-Glo: 100 gallon vat * Wheel mounting, axle painting * Wheels and gears removed from axles * Wheels lathed	Fuels (including stoddard solvent) Oils (potentially containing PCBs) Cleaners Paint	VOCs PAHs RCRA Metals PCBs	VOCs PAHs RCRA Metals PCBs
LD - 41 Test Department	* Testing of all materials purchased incl: fuel, chemicals, steel, batteries * Chemical/fuel drum storage on north side	Fuels Oils Cleaners Paint	VOCs PAHs RCRA Metals	VOCs PAHs RCRA Metals
LD-3 Diesel House	* Running maintenance * Repair and main generator assembly, * oil and radiator coolant change * Fuel distribution	Fuels Oils Cleaners Paint	VOCs PAHs RCRA Metals PCBs	VOCs PAHs RCRA Metals PCBs

TABLE 1
FORMER CMC SHOPS
SUMMARY OF MANUFACTURING AREAS & POTENTIAL CONTAMINANTS OF CONCERN

Building/Operations	Activities	Potential Contaminants of Concern	Data Gaps	
			Soil	Groundwater
CD-72 Fuel Storage & Recycling	* Storage, mixing, barrel storage * Barrel filling, lube journal, diesel fuel treatment and radiator coolant storage	Fuels Oils Cleaners Paint	VOCs PAHs RCRA Metals PCBs	VOCs PAHs RCRA Metals PCBs
SD-27 Fuel Distribution	* Barrel filling rack * Storage	Fuels Oils Cleaners Paint	VOCs PAHs RCRA Metals	VOCs PAHs RCRA Metals
SD-43 & SD-43A Former Foundry, Storage	* Foundry * Storage * Signal parts cleaning	Fuels Oils Cleaners Paint	VOCs PAHs RCRA Metals	VOCs PAHs RCRA Metals
Propane Tank Area (west of the north end of LD 43)	* Storage of propane and battery acid	Battery Acid	RCRA Metals	RCRA Metals
Davies Car Yard	* Running repairs * Part replacement	Fuels Oils	VOCs PAHs RCRA Metals Herbicides Pesticides PCBs	VOCs PAHs RCRA Metals Herbicides Pesticides PCBs

TABLE 1
FORMER CMC SHOPS
SUMMARY OF MANUFACTURING AREAS & POTENTIAL CONTAMINANTS OF CONCERN

Building/Operations	Activities	Potential Contaminants of Concern	Data Gaps	
			Soil	Groundwater
Lapham Yard & Other Areas of Significant Trackage	* Car Storage	Fuels Oils Cleaners Paint Herbicides Pesticides PCBs	VOCs PAHs RCRA Metals Mercury Cyanide Herbicides Pesticides PCBs	VOCs PAHs RCRA Metals Mercury Cyanide Herbicides Pesticides PCBs
Former Fuel Storage Area	* Soil bermed area containing a minimum of three large capacity fuel storage tanks.	Fuels Oils	VOCs PAHs	VOCs PAHs
Waste Water Treatment Plant	* Waste water treatment	Fuels Oils Cleaners Paint Herbicides Pesticides PCBs	VOCs PAHs RCRA Metals Mercury Cyanide Herbicides Pesticides PCBs	VOCs PAHs RCRA Metals Mercury Cyanide Herbicides Pesticides PCBs
Storm and Sanitary Sewer Utility Corridors	* Waste water transfer	Fuels Oils Cleaners Paint Herbicides Pesticides PCBs	VOCs PAHs RCRA Metals Mercury Cyanide Herbicides Pesticides PCBs	VOCs PAHs RCRA Metals Mercury Cyanide Herbicides Pesticides PCBs

TABLE 1
FORMER AIRLINE YARD AND HUMP YARD
SUMMARY OF MANUFACTURING AREAS & POTENTIAL CONTAMINANTS OF CONCERN

Building/Operations	Activities	Potential Contaminants of Concern	Data Gaps	
			Soil	Groundwater
Airline Yard	* Through traffic and car switching	Fuels Oils Cleaners Paint Herbicides Pesticides PCBs	VOCs PAHs RCRA Metals Mercury Cyanide Herbicides Pesticides PCBs	VOCs PAHs RCRA Metals Mercury Cyanide Herbicides Pesticides PCBs
Hump Yard	* Car switching	Fuels Oils Cleaners Paint Herbicides Pesticides PCBs	VOCs PAHs RCRA Metals Mercury Cyanide Herbicides Pesticides PCBs	VOCs PAHs RCRA Metals Mercury Cyanide Herbicides Pesticides PCBs

CMC Shops - Chronological Summary of Investigations

- ▶ February 1978: *Draft Environmental Impact Statement for Environmental Control Facilities at the Milwaukee Shops, Milwaukee, Wisconsin*, prepared by the Milwaukee Road.

The environmental impact statement was prepared to assess environmental impacts resulting from the simultaneous construction of an environmental control facility (WWTP) and increasing car and locomotive repair activities.

- ▶ July 11, 1979: A WDNR file memorandum prepared by Mr. William Wawrzyn.

A petroleum spill was investigated by the WDNR. The affected area was located near the petroleum recycling and storage area. The WDNR inspection noted several 55-gallon drums of used lubrication oil stored on an outside loading dock (fuel handling area CD 72, LD 42). Several of the drums were noted to be damaged and leaking oil. The affected area measured approximately 40 feet by 200 feet. Housekeeping activities were requested by the WDNR. Subsurface investigation activities were not requested or completed.

- ▶ April 6, 1983: A letter from Chicago, Milwaukee, St. Paul and Pacific Railroad Company to Mr. Kenneth Hein of the WDNR.

This letter submits laboratory analysis of ten soil samples for PCB analysis. The samples were collected to evaluate the transformer area (southwest portion of the study area). The sample results range from less than detection to 4 ppm.

- ▶ April 7, 1983: A WDNR memorandum prepared by Mr. Ken Hein to Mr. Gary Nelson.

This memorandum discusses soil study results for the proposed prison site. A total of six soil borings were completed within the prison site area (former State of Wisconsin property). A map of the proposed or completed soil boring locations was not located. Soil samples were collected for PCBs, heavy metals and oil/grease. The following four points were noted:

1. Five of the surface soil samples contained relatively high concentrations of lead. Concentrations ranged from 130 $\mu\text{g/g}$ to 10,000 $\mu\text{g/g}$.
2. One of the samples contained relatively high concentrations of barium (2,000 $\mu\text{g/g}$), cadmium (23 $\mu\text{g/g}$), lead (10,000 $\mu\text{g/g}$) and total chromium (810 $\mu\text{g/g}$).
3. One soil boring noted soil saturated with oil at depths between 9 and 13 feet below ground surface (bgs).
4. No significant concentrations of PCBs were detected.

During these investigation activities it was noted that several transformers were being stored within the prison site area. Through testing it was determined that the transformer oil contained PCBs. The transformers were removed by the Milwaukee Road initiating the collection of ten soil samples as discussed in the April 6, 1983 letter presented above.

- ▶ April 8, 1983: A WDNR file memorandum, prepared by Ms. Gloria McCutcheon Presenting the environmental concerns associated with the potential prison siting at the Milwaukee Road.

This memorandum reiterates the soil investigation activities presented in the April 7, 1983 memorandum and further describes groundwater concerns. Specifically, an unknown quantity of fuel oil free product was discovered resulting from leaky valve associated with a 500,000-gallon diesel fuel storage tank located in the former fuel storage area (Figure 1). The free product was investigated through the installation of six groundwater monitoring wells. The memorandum indicates that remediation of the product would begin in June of 1983 through the installation of a recovery well.

- ▶ December 1983: *Draft Environmental Impact Statement Menomonee Valley Correctional Institution*, prepared by Camp Dresser & McKee, Inc. and The State of Wisconsin Department of Health and Social Services

The only available portion of the report available was Appendix F - Cultural Resources Survey Results. This report provides historical site information. Of specific interest are the manufacturing operations which are summarized in Table 1.

- ▶ May 13, 1987: *Building CD-77 PCB Spill Former Milwaukee Road Railroad Yard, 3301 West Canal Street, Milwaukee, Wisconsin* prepared by Warzyn.

This report documents activities completed to investigate an estimated 30 gallons of spilled transformer oil within building CD-77. Building CD-77 was formerly located within the area current developed as the Miller Park River East parking lot.

The report also mentions a transformer oil spill within the Hump Yard, located on the South side of the Menomonee River) on or around April 23, 1986. No additional information regarding the Hump Yard transformer oil spill is presented in the report.

- ▶ June 29, 1990: *Department of Natural Resources Feasibility Study for a State Recreation Area in the Menomonee River Valley*, prepared by Southeast District, Department of Natural Resources.

No site specific environmental information was provided in this report.

- ▶ August 1990: *CMC Heartland Partners - Milwaukee Shops Modified Phase I Environmental Reconnaissance*, prepared by STS Consultants, Ltd.

Sixteen soil borings were completed and two monitoring wells were installed within the study area. Select soil samples were submitted for laboratory analysis. Eleven soil samples were submitted for TPH analysis, thirteen composite and/or grab samples were submitted for PCB analysis, one sample was submitted for PAH analysis, and three samples each were submitted for VOC and heavy metals.

Water level data was recorded for the monitoring wells installed within the study area.

- ▶ July 1991: *CMC Heartland Partners - Milwaukee Manufacturing Area Modified Phase I Environmental Assessment*, prepared by STS Consultants, Ltd.

Twenty-three soil borings and thirty-two hand augers were completed and three monitoring wells were completed within the study area. Select soil samples were submitted for laboratory analysis. Twenty-five soil samples were submitted for TPH analysis, eighteen samples were submitted for VOC analysis, twelve samples were submitted for PCB analysis and three samples were submitted for heavy metal analysis.

Water level data was recorded for the monitoring wells installed within the study area.

- ▶ February 17, 1992: A WDNR memorandum from Gloria McCutcheon to Jim Addis - "Henry Aaron" State Park Program Statement.

No site specific environmental information was provided in this memorandum.

- ▶ March 4, 1992: Letter from STS Consultants Ltd to Mr. Lawrence Adelson of CMC Heartland Partners - Groundwater Evaluation at CMC Milwaukee Shops Project.

This letter presents the results of work as outlined in a January 2, 1992 proposal. The completed activities included: groundwater sampling, water level measurement at site groundwater monitoring wells: B-16, B-17, BW-4A, BW-9A, BW-10A, BW-14A, BW-22A, BW-21A, and B-42. The groundwater samples were submitted for metal, volatile organic compound (VOC), TPH as gas, TPH as diesel, and polynuclear aromatic hydrocarbon (PAH) analysis.

Free product was observed within monitoring well BW-14A. The only constituent detected at a concentration greater than ch. NR 140 Enforcement Standards was benzo(a) pyrene at monitoring well W-23.

- ▶ March 26, 1992: *Data Package for CMC Milwaukee Shops Site, 3301 West Canal Street, Milwaukee, Wisconsin*, prepared by STS Consultants Ltd.

This report briefly summarizes the investigations completed to date. The first phase consisted of a Phase I to review the facility history and limited Phase II investigations to evaluate areas of former trackage and areas where buildings had been demolished. The second phase consisted of a Phase II soil investigation targeting the manufacturing areas, and the third phase consisted of groundwater monitoring.

The subsurface investigations completed since the Summer of 1990 consisted of the completion of 71 soil borings, 34 hand augers, and 13 groundwater monitoring wells. (This summary includes activities conducted within the property currently developed as the Miller Park River East parking lot.)

The investigation results further identified areas of concern as presented in Figure 1.

- ▶ July 27, 1992: *CMC Milwaukee Shops Site Free Product Investigation*, prepared by STS Consultants, Ltd.

An investigation of the free product area identified at monitoring well MW-14A included the completion of 24 test pits. The free product was noted as heavy and waste oil like. An oil saturated 10 to 12 inches of soil was noted at the water table. Due to the nature of the oil it did not accumulate within the test pits during the investigation activities. One groundwater monitoring sump (Sump 4) was installed to a depth of 2 feet below the water table. An estimated ½ inch thickness of product was initially present at this location. After the first removal of product no significant thickness has recharged.

The estimated area of free product is shown in Figure 1.

- ▶ October 12, 1992: *Comprehensive Environmental and Site Development Plan for CMC Milwaukee Shops Site*, prepared by STS Consultants Ltd.

This report presents a summary of the data previously collected and reported.

- ▶ October 12, 1992: *Free Product Investigation Interim Removal and Proposed Remedial Action, CMC-Milwaukee Shops Site, Milwaukee, Wisconsin*, prepared by STS Consultants, Ltd.

Several test pits were completed within the area of groundwater monitoring well BW-14A, to evaluate the extent of free product. The test pits were completed below the groundwater table a maximum depth of 12 feet. A one foot smear zone of thick oily product was noted at the water table. Small amounts of product was noted to accumulate within the water presented in the test pits.

- ▶ March 1993: *Technical Memorandum for the Phase II Investigation of Area C, State of Wisconsin Department of Health and Social Services Property*, Prepared by RMT, Inc.

A Phase II investigation of the State of Wisconsin property was completed. The investigation consisted of the installation of six soil borings with the completion of three as groundwater monitoring wells. Soil samples were collected for TRPH, DRO, VOC, PCB, PAH and RCRA metals analysis.

- ▶ March 18, 1993: *Work Plan for Characterization and Delineation of Lead Impacted Soils at 3301 West Canal Street in Milwaukee, Wisconsin*, prepared by STS Consultants, Ltd.

This work plan outlines the activities proposed to determine the extent of lead impacted soil near soil boring B-26A where leachable lead at a concentration of 17.1 mg/l (at 0 to 1.5 feet) was detected. It is suspected that the lead was the result of the former storage of batteries in the Locomotive Electrical Shop located north of soil boring B-26A.

- ▶ March 15, 1994: *Lead Affected Soils Investigation CMC Shops Site at 3301 W. Canal Street Milwaukee, Wisconsin*, prepared by STS Consultants Ltd.

Total lead concentrations ranging from 11.5 mg/kg to 8,410 mg/kg were detected within soil samples collected from depths between 0 to 4 feet bgs near soil boring B-26A. An estimated 85 cubic yards of soil impacted with lead at concentrations greater than 250 mg/kg was identified. This area of concern is presented in Figure 2.

- ▶ February 13, 1995: WDNR Memorandum from Secretary George E. Meyer to Senator Gary George.

This memorandum provides a general review of the known environmental conditions. No new or specific information is provided.

- ▶ February 12, 1998: *Closure Plan, Request for Exemption to Construct on an Abandoned Landfill West PARCEL Milwaukee, Wisconsin*, prepared by STS Consultants Ltd.

The west parcel is the CMC Shops property west of the 35th Street Centerline to the Miller Part River East parking lot. A summary of the investigation activities and the results are presented. Proposed remedial action includes the placement of an estimated 8 to 10 feet of fill soil across the site.

- ▶ April 28, 1998: *Closure Plan East PARCEL Milwaukee, Wisconsin*, prepared by STS Consultants Ltd.

The east parcel is the CMC Shops property (Figure 1) east of the 35th Street Centerline. A summary of the investigation activities and the results are presented. Proposed remedial action includes the placement of an estimated 8 to 10 feet of fill soil across the site.

- ▶ January 20, 1999: Technical Memorandum from STS Consultants Ltd, to Bizhan Sheikholeslami, WDNR RE: *Test Pit Investigation Summary, CMC Shops Site, 3301 West Canal Street, Milwaukee, WI.*

This technical memorandum summarizes the completion of additional test pits at the request of the WDNR to verify the presence and viscosity of the fuel product near monitoring well BW-14A. This information further defines the extent of the free phase product shown in Figure 1.

CMC Airline and Hump Yards - Chronological Summary of Investigations

- ▶ March 1978: A WDNR file memorandum, prepared by Mr. Skip Glor

This memorandum documents the release of an unknown quantity of ethylbenzene from a rail car located in the Hump Yard (Figure 1). The free liquid spilled on the ground was absorbed through the placement of clean foundry sand. The impacted foundry sand and impacted subsurface soil was excavated (an estimated 124 cubic yards) to the extent practical considering the location and significant track activity. Confirmation samples were not collected.

- ▶ June 1993: *Site Closure Report, 3301 West Canal Street, (Beneath 35th Street Viaduct), Milwaukee, Wisconsin*, prepared by Key Environmental Services, Inc., on behalf of L & R Crane & Hoist Corporation.

This closure request documents activities completed to mitigate the release of hazardous wastes from a trailer abandoned on the CMC Airline Yard property (see attached figure). The hazardous wastes consisted of drums and tanks of waste gasoline, motor oil, kerosene, halogenated solvents, grease and lead bearing motor oils. Investigation and remediation activities consisted of the removal of approximately 34 tons of petroleum and lead impacted soil. Pre and Post Excavation soil sample results ranged from 68,800 ppm to 31.20 ppm TRPH and 1,360 ppm to 1.2 ppm total lead, respectively.

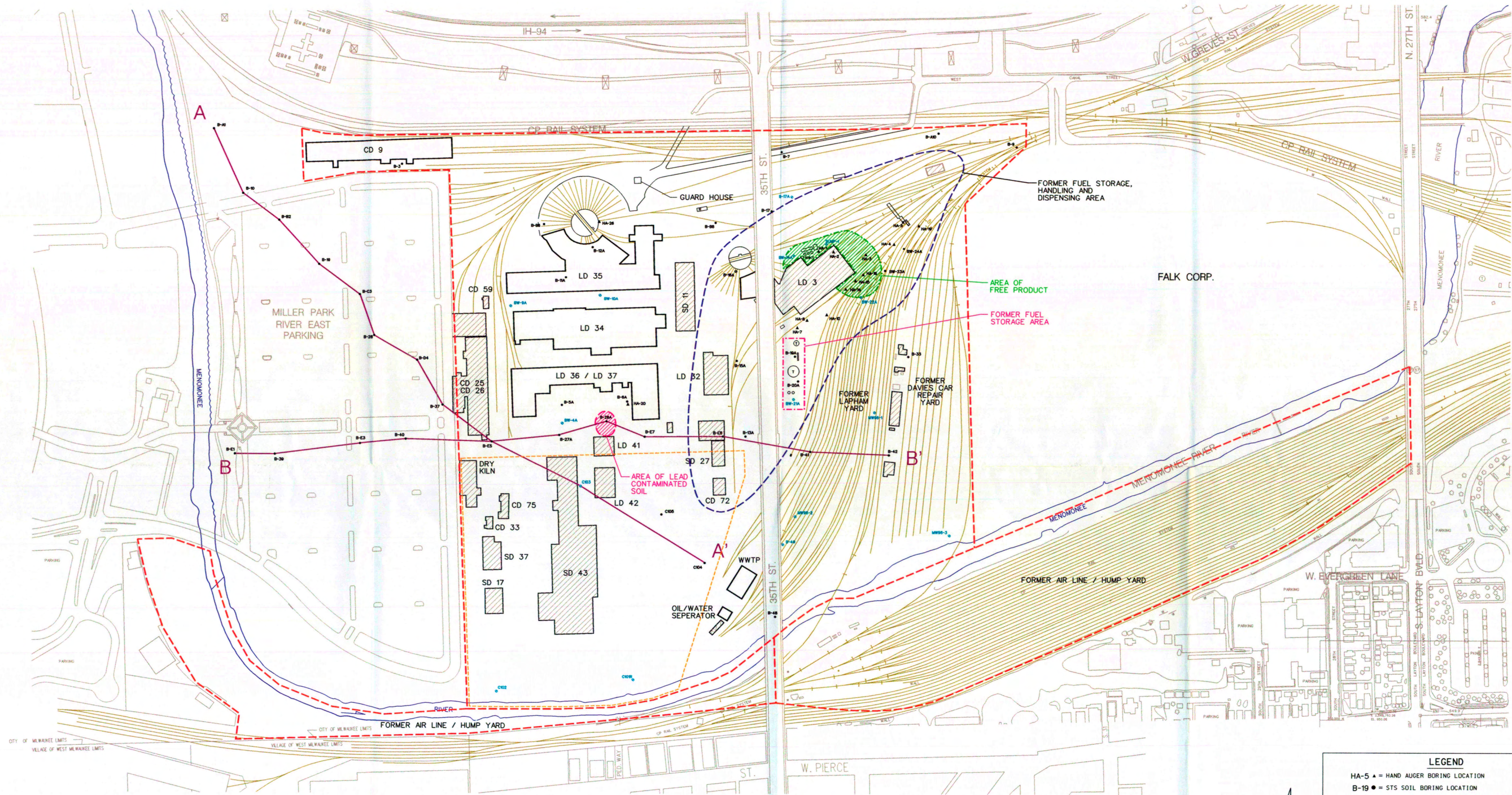
A sample collected from the excavated soil stock pile contained arsenic at a concentration of 4.4 ppm TCLP and lead at a concentration of 1.2 ppm TCLP.

- ▶ July 1993: WDNR letter to L & R Crane & Hoist Corporation, RE: Site Closure Report for L & R Crane & Hoist Corporation, 3100 West Concordia Avenue, Milwaukee, Wisconsin for Site Located at 3301 West Canal Street

The WDNR letter requested: 1) documentation of the party responsible for abandonment of the trailer; 2) documentation of the proper disposal of the hazardous wastes; 3) clarification of soil sample location and collection methods, 4) clarification of the source of a previously submitted waste manifest; and 5) further evaluation of the detected 4.4 ppm TCLP concentration of arsenic.

- ▶ August 1993: *Site Closure Report; WDNR Response Letter (July 13, 1993)*, prepared by Key Environmental on behalf of L & R Crane & Hoist Corporation.

This closure request addressed the WDNR questions raised in their July 1993 letter by 1) identifying the party responsible for abandoning the trailer; 2) providing appropriate documentation of the disposal of the hazardous wastes; 3) clarifying soil sample locations and collection methods, 4) clarifying the source of the previously submitted waste manifest; and 5) providing information which indicates that the detected arsenic was not the result of the wastes present in the abandoned trailer.



NOTE:
PROPERTY LINES ARE APPROXIMATE.

LEGEND	
HA-5 ▲	= HAND AUGER BORING LOCATION
B-19 ●	= STS SOIL BORING LOCATION
B-16 ●	= 1990 STS MONITORING WELL LOCATION
BW-4A ●	= 1991 STS MONITORING WELL LOCATION
102 ●	= 1992 RMT MONITORING WELL LOCATION
	= RAZED BUILDING
	= EXISTING BUILDING
	= DECOMMISSIONED AND REMOVED RAILROAD TRACKS
	= CMC SHOPS PROPERTY LINE
	= FORMER STATE OF WISCONSIN PROPERTY

SIGMA
ENVIRONMENTAL SERVICES INC.
220 EAST RYAN ROAD
OAK CREEK, WISCONSIN 53154
PHONE : (414) 768 - 7144
1-800-732-4671

SCALE - 1" = 200' - 0"

NO	DATE	REVISIONS	BY	APVD

NAME:	DATE:
DRAWN BY: BEB	
DESIGNED BY:	
CHECKED BY:	
APPROVED BY:	

CMC - FORMER SHOPS AIR LINE / HUMP YARD PROPERTIES
MILWAUKEE, WISCONSIN
SITE PLAN

DRAWING NUMBER
6011-003

FIGURE 1

formed by HNTB and CH2M HILL

135 South 84th Street
Suite 325
Milwaukee, WI
53214-1456
Tel 414.272-2426
Fax 414.272.4408

April 6, 2004

Ms. Margaret Brunette
Wisconsin DNR Southeast Regional Headquarters
2300 North Martin Luther King Jr. Drive
P.O. Box 12436
Milwaukee, WI 53212

Subject: The City of Milwaukee Shops Site Redevelopment Property –
Site Soil Conditions

Dear Ms. Brunette:

This letter provides details regarding existing conditions at the City of Milwaukee's Shops Site and Airline and Hump Yard properties (the Site). This letter is intended to only discuss existing site soil conditions as they relate to conceptual plans for site redevelopment, and to confirm previous draft submittals and discussions between the City, Milwaukee Transportation Partners (MTP), and the Wisconsin Department of Natural Resources (WDNR).

This discussion and documentation of soil conditions and proposed response actions has preceded discussions of other site media in order to accommodate the expedited schedule associated with preparing the portion of the Site that will receive the Canal Street extension. A Remedial Action Plan (RAP) Addendum, including a Fill Plan and a Materials Management Plan, will be sent to WDNR in a separate submittal, and will include proposals for the remaining site media.

The Site is located in the Menomonee Valley directly adjacent to (east of) the Miller Park facility (Figure 1). The City plans to develop approximately 70 acres of the property into a mixture of light commercial/industrial and office space. The remaining 30 acres will be converted to green space consisting of storm water management facilities and parks (Figure 2). In addition, the City plans to create approximately 40 acres of additional green space in the former Airline/Hump Yard property, as shown in Figure 2. Current plans call for the Shops Site property's grade to be heightened an average of 8 feet via placement and compaction of fill material to accommodate redevelopment plans and the extension of Canal Street (Figure 3). (The Fill Plan, to be submitted to WDNR at a later date with the RAP Addendum, will detail plans and requirements for site filling operations). Proposed response actions for soil at the Site account for future land use, whether in the industrial setting of the

70-acre area on the Shops property or in the recreational setting of the remaining acreage.

This letter is organized to first present the screening process and standards used to evaluate existing soil concentrations and groundwater concentrations (as they relate to soil conditions). Next, a proposal is included for use of an "area of contamination" (AOC) concept for dealing with a small percentage of affected soil areas that have concentrations at characteristically hazardous levels. Finally, those soil areas are described that exceed standards, along with the proposed rationale to deal with each area.

Screening Standards for All Constituents

The following sections define the screening processes that were used to evaluate constituents detected at the Site as summarized in the RAP prepared for the City of Milwaukee by Sigma Environmental Services, Inc., dated March 2003.

Standards used to Create Table 1 and Figure 1

The Sigma RAP presented a figure (RAP Figure 3) that summarized where soil concentrations of Chlorinated Volatile Organic Constituents (CVOCs) and ethylbenzene at the site exceed direct contact values using United States Environmental Protection Agency (USEPA) Region IX Industrial Preliminary Remediation Goals (PRGs) and where Toxicity Characteristic Leaching Procedure (TCLP) lead concentrations exceeded NR 605 Table I Toxicity Characteristic. Site areas where free product and/or sheen on the groundwater table were encountered were also included on a Sigma RAP figure.

Table 1 and Figure 1 to this letter include those same areas, but also include areas that exceed groundwater protection (GWP) Residual Contaminant Levels (RCLs) for those same constituents. The GWP RCLs used were USEPA Site Screening Levels (SSLs) for protection of groundwater with a dilution attenuation factor (DAF) of 20. If there was no such SSL established for a given constituent, USEPA Region 3 Risk Based Concentration SSLs with a DAF of 20 were used. For Table 1 and Figure 1, total lead, ethylbenzene and 1,2-dichloroethane concentrations were screened against the WDNR NR 720 RCL (500, 2900, and 4.9 milligrams per kilogram, respectively) and TCLP lead concentrations were screened against the NR 605 Table I Toxicity Characteristic (5 milligrams per liter). 1,2-Dichloroethane did not exceed the NR 720 RCL in any soil samples and ethylbenzene only exceeds the NR720 RCL at Area 8.

All site soil CVOC concentrations were also screened against WDNR industrial direct contact values calculated using the default values and equations set forth in WDNR publication RR-519-97 and NR720. The resultant WDNR direct contact values for were higher than the GWP RCLs for the individual CVOCs with the exception of 1, 3-dichlorobenzene and 1,1-Dichloroethane, which were detected at the Shops property, but at concentrations less than their WDNR direct contact values.

Groundwater concentrations were screened against the WDNR NR 140 Enforcement Standards (ES).

Screening for VOCs (other than CVOCs and ethylbenzene)

Site VOC soil data were also screened against the GWP RCLs, NR 720 RCLs, WDNR industrial direct contact values, and PRGs, and site groundwater data were screened against the WDNR ESs. The following paragraph explains why data that may exceed some of these standards was not included as an "area" in Table 1/Figure 1.

Benzene exceeded the soil GWP RCL and NR 720 RCL in 34 samples across the site, however, benzene was not detected in groundwater above the ES, nor was benzene detected above the PRG in any soil samples. The benzene GWP RCL is very low (30 micrograms per kilogram), and the exceedances are somewhat unusual because of the volatility and biodegradability of benzene, so there is some uncertainty as to whether these detections constitute a laboratory analysis or cross contamination problem. Methylene chloride, a common laboratory solvent/contaminant, was also detected above the soil GWP RCL in 60 soil samples and, like benzene, had no industrial direct contact PRG exceedances; methylene chloride was detected above the ES in 6 groundwater wells – these wells are each in the general vicinity of areas with high CVOCs or with free product that will be addressed through groundwater monitoring. Benzene and methylene chloride soil and groundwater exceedances are, therefore, not included in Table 1 and Figure 1.

Polynuclear Aromatic Hydrocarbons (PAHs)

PAHs were screened against WDNR Generic RCLs for Direct Contact and GWP that are established in WDNR publication RR-519-97. Benzo(a)anthracene, Benzo(b)fluoranthene, Benzo(a)pyrene, and Indeno(1,2,3-cd)pyrene were detected above the Direct Contact RCLs at several locations across the site. The cover material to be placed across the site (as described in the forthcoming RAP Addendum) will eliminate these direct contact issues in the future.

Acenaphthylene, 1-Methylnaphthalene, 2- Methylnaphthalene, Naphthalene, and Phenanthrene were detected above the WDNR GWP RCLs at several locations across the site. PAHs were not detected in the groundwater above the ES. Sitewide groundwater results show that PAHs are not leaching to groundwater and, therefore concerns of migration to groundwater are minimal. As such, PAHs are not included in Table 1 and Figure 1.

RCRA Metals

Eleven soil areas have lead concentrations that exceed the NR 720 RCL and/or Toxicity Characteristic. Three of the eleven areas (Figure 1 – Areas 4, 10, and 17) have lead concentrations above the Toxicity Characteristic, and, if "managed," would be defined as hazardous waste per NR 605. Soil Area 10 is the only area above the toxicity value that will need to be cut to meet proposed grading plans. Area 10 will, however,

be managed within an AOC, as proposed below. The approximate volume of soil to be moved from Area 10 is 600 cubic yards.

Other RCRA metal concentrations and cyanide were screened against the GWP RCLs, PRGs, and, if available, the NR 720 Industrial Direct Contact RCLs. Arsenic, cadmium, chromium, and selenium exceeded the GWP RCLs in unsaturated zone soil at six locations across the site. Cadmium and chromium were not detected in groundwater above the ES. Arsenic, barium, and selenium were detected in the groundwater above the ES at four wells across the site. The exceeding well locations do not correspond with the soil areas that exceeded the GWP RCLs.

Arsenic was the only RCRA metal, besides lead, that exceeded the direct contact PRG and NR 720 Industrial Direct Contact RCL at several locations across the site. A few chromium and mercury samples with high soil concentrations were tested for TCLP and the results for the analyzed leachate were all non-detect.

All soil with metals exceeding GWP RCLs, PRGs, and NR 720 RCLs will be beneath cover materials to eliminate future risks of direct contact. Metals are typically immobile compounds and do not leach to groundwater. Site-wide groundwater results show that metals are not leaching to groundwater and, therefore, concerns of migration to groundwater are minimal. RCRA metals and cyanide, except lead, were not included in Table 1/ Figure 1 for the above reasons.

Polychlorinated Biphenyls (PCBs)

PCBs were detected above their respective PRGs (PCB-1248 1.010 to 2.020 mg/kg and PCB-1254 1.100 to 2.420 mg/kg) at soil sample location CB-SHOPS-58/58A from 6 to 8 feet below land surface, which is located in Area 5 in Figure 1. Groundwater samples were not tested for PCBs, most likely because they are extremely immobile in groundwater. The proposed maximum cut in the Area 5 will be 4 feet below grade. Therefore, the PCB-impacted soils should not be encountered during construction and will be left in place beneath cover materials. PCB soil results were not included in Table 1/ Figure 1.

Soil Management using an Area of Contamination (AOC)

The majority of the soil concentrations detected at the Site are below hazardous levels as defined by the USEPA and the State of Wisconsin NR605, and will not require handling and management as hazardous waste if disturbed during grading or filling processes during redevelopment. However, a portion of the existing site soils have concentrations that are indicative of hazardous waste levels because they exceed the toxicity limit for lead (TCLP--Areas 4, 10, and 17--see Figure 1). If it is confirmed that these areas have leachable concentrations of lead, using the synthetic precipitation leaching procedure (SPLP) test that is more reflective of natural, non-landfill conditions, and if these soil areas are excavated to meet final grade elevations, it is proposed that they be managed onsite at the Shops Site property in accordance with

USEPA requirements for an AOC. According to USEPA publication, *Management of Remediation Waste Under RCRA* (EPA530-F-98-026), an AOC is equated to a RCRA land-based unit where consolidation and in situ treatment of hazardous waste within the AOC do not create a new point of hazardous waste generation. This allows remediation waste to be consolidated or treated in situ within an AOC without triggering land disposal restrictions or minimum technology requirements.

For AOCs, contamination must be contiguous but does not have to be homogeneous. In this case, we request that the entire Shops Site property (north of the Menomonee River) be considered as the AOC because contamination is found at varying concentrations across the property. More specifically, the lead soil areas that exceed the SPLP testing would be treated in situ (probably solidified at the point of excavation using appropriate soil mixing techniques and solidification agents) then consolidated within the AOC if a cut is required. A cut area of soil (already treated) would then be moved to other areas onsite with similar concentrations that require fill and cover materials to meet proposed grade. (A description of the physical and chemical requirements for fill and cover materials is included in the Fill Plan that is submitted as part of the RAP Addendum.)

The SPLP is a more appropriate test to determine whether lead concentrations would actually leach to groundwater in the natural environment. (The TCLP procedure mimics landfill environments and a much lower pH.) To confirm whether hazardous waste lead soil is present in these areas, and to confirm their potential to leach, SPLP tests will be run on soil from areas 4, 10, and 17. If SPLP exceedances are observed, the soil will be solidified to mitigate the leaching potential.

Area 10 is the only soil area that contains lead concentrations exceeding TCLP limits and that also needs to be cut to accommodate redevelopment activities. Once solidified and excavated, the soil from Area 10 will be consolidated in an onsite area that will receive future fill and cover materials, and its final location will be recorded in the project records.

If use of the AOC concept is approved for the Shops Site redevelopment property in terms of existing site conditions, the same approach would be used for materials encountered during site construction that exceed TCLP levels (as determined using SPLP testing).

Regardless of whether soil exceeds hazardous levels, all activities that involve disturbance of existing site soil would be managed using 40-hour trained HAZWOPER personnel.

Remedial Approach for Existing Site Soil Conditions

As previously indicated, the evaluation of soil concentrations against standards produced a variety of areas of concern for soil, shown in Figure 1 and described in

Table 1. Several factors were considered when determining a proposed action for each of these areas, including, but not limited to:

- The constituents detected in soil above standards in a given area
- The presence or absence and concentrations of the same constituents in groundwater
- Whether the area will be cut and/or filled during re-development activities

Proposed actions were grouped by category, and summarized in Table 2. The first proposed action category, "A" in Table 2, is for soil areas where lead exceeds NR720 RCL standards. As indicated in Table 2, the proposed action for soils that need to be cut into during redevelopment (A-1) is to move soil with 40-hour trained contractors and consolidate at onsite lead areas that have similar concentrations and where fill and cover materials will be used to meet final grade. Where such soil does not have to be cut during redevelopment (A-2), it will be left in place and covered with required fill materials (impacted fill and/or cover) per the fill plan. The rationale for this approach is that covering the affected soil will inhibit direct contact. In regard to the GWP, lead is typically an immobile compound and previous groundwater sampling results do not indicate that lead is leaching to site groundwater. Concept sketches for A-1 and A-2 are included as Figures 4-A1 and 4-A2. (Those lead soil zones that are confirmed to have characteristically hazardous concentrations will be managed using the AOC concept, as previously described.)

The second proposed action category, "B," is for soil areas where CVOCs exceed standards. The proposed actions for CVOC areas that need to be either cut or filled mirror those for the lead areas as shown in Figures 4-B1 and 4-B2, and as described in Table 2. The difference is, for these areas where volatile constituents are present in soil, evaluation will be undertaken of the potential inhalation pathway from such constituents that could migrate in the vapor phase to enclosed structures constructed at the surface on the proposed, future grade. The vapor migration evaluation will be presented in the RAP addendum. If the evaluation indicates that VOC inhalation may result in unacceptable risk, the VOC zones will either be remediated to protective concentrations or buildings will be designed and constructed with vapor mitigation/ventilation systems. The rationale for this approach includes the fact that reductive dechlorination has been indicated by nearby soil and groundwater concentrations, and ongoing groundwater monitoring is proposed to document the natural attenuation process.

The third proposed category, "C," is for free product zones where product is evident as a sheen on the water table, but there is not measurable free product present. None of these areas are currently situated in a proposed cut during redevelopment. As such, the proposed action for these areas is to leave them in place, continue groundwater monitoring, and evaluate the potential VOC inhalation pathway where buildings are planned in close proximity to the sheen areas (identical to the process proposed for the CVOC areas). If the vapor evaluation using soil and groundwater data indicates

inhalation may result in an unacceptable risk, the soils in the vicinity of the free product area will either be remediated to protective concentrations and/or buildings will be designed and constructed with a vapor mitigation/ventilation system. The rationale for this approach is that removal of residual free product from the soil may not be feasible, and the constituents associated with the product do not appear to be very volatile. The proposed action/rationale for the free product sheen areas is indicated in Figure 4-C and described in detail in Table 2.

The fourth category, "D," is for free product areas that are measurable on the water table surface, or within manholes or other vault-like features onsite (Figure 4-D). Similar to category "C," an indoor air pathway evaluation will be completed using soil and groundwater concentrations at these areas. In addition, a free product removal system will be installed within those category D areas where recovery and removal is shown to be feasible (further described in the RAP Addendum).

The final category included in Table 2 and shown in Figure 4-E is for a zone of ethylbenzene in soil situated south of the Menomonee River in the Airline and Hump Yard property. This soil is situated more than 6 feet below the ground surface and above the water table, and soil concentrations exceed both the direct contact industrial PRG and GWP RCL for ethylbenzene. The proposed action for this area is to leave the affected subsurface soil in place, allowing soil and groundwater to naturally attenuate, and monitor the attenuation process in groundwater. The rationale for this action is that ethylbenzene groundwater concentrations in this area do not exceed the ES.

Summary—Affected Soil Management and Rationale

In summary, it is proposed that existing Site soil areas that include concentrations that exceed standards ("affected soil") as described in this letter should be left in place and covered with fill and/or cover materials as described in the forthcoming Fill Plan and Materials Management Plan. There are two exceptions to this strategy:

1. Lead soil that is confirmed to have concentrations exceeding Toxicity Characteristic levels (using SPLP analysis) will be solidified. Area 10, which must be cut, will be solidified, then excavated and moved to an area where both fill and cover materials will be used to meet redeveloped grade.
2. Soil areas that must be cut during redevelopment activities and that have concentrations that exceed other standards set forth in this letter (non-TCLP) will be excavated and moved to an area where both fill and cover materials will be used to meet redeveloped grade.

Any disturbance of existing site grade/soil will be accomplished using 40-hour HAZWOPER trained personnel. If WDNR approves the strategy outlined for known soil conditions as described in this letter, the same approaches would be used for additional, unidentified situations/concentrations encountered during site construction that require management. The specifics for managing site soil during future

Ms. Margaret Brunette

Page 8

April 6, 2004

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construction activities are included in the Materials Management Plan that will be submitted as part of the RAP Addendum.

WDNR has requested further evaluation of relatively shallow soil zones affected with concentrations of CVOCs in order to reduce future, potential leaching to groundwater. This evaluation will be presented in the RAP Addendum. However, initial information suggests that the remaining soil mass is very small, and that future groundwater monitoring plans will be sufficient to document continued, natural degradation processes.

The potential for soil or groundwater constituents to volatilize and cause indoor air concentrations that may be detrimental in future building space is also evaluated and presented in the RAP Addendum.

Conclusion

We hope that the information in this letter adequately describes the screening process used for soil conditions at the Site, and that WDNR agrees with the use of the AOC concept such that the relatively small amount of characteristically hazardous soil defined at the Site can be managed onsite during cut and fill activities. If you have any questions, please call me at 414/847-0251 or Dave Misky of the City of Milwaukee at 414/286-8682.

Sincerely,

Milwaukee Transportation Partners



Cynthia Cruciani
Environmental Task Leader

Attachments

MKE\Final_LTR_040112_to WDNR soil issues.doc

c: Dave Misky/City of Milwaukee
Victoria Stovall/WDNR R&R with review fee and form
Jeff Meerdink/CH2M HILL

TABLE 1
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City of Milwaukee, WI

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1-1	Lead - Above NR 720 Industrial RCL	CB-SHOPS-39	8-10	Total - 811 mg/kg, TCLP - Not Analyzed	15	5	JY638	<1.5 to 1.9 µg/L (below ES value of 15 µg/L)	-1 to +1	7 to 9	0	14-16	A-2	Affected soil will be left in place beneath cover. Affected depth above the specified standard (8-10 ft) will not be encountered during construction.
1-2	CVOC - Above GWP RCL (DAF =20)	JY638	14-16	TCE - 110 µg/kg	18	2	JY638	1,2-DCA - <0.207 to 11.6 µg/L (detections above ES value of 5 µg/L)	-1 to 0	13 to 14	0	17-18	B-2	Affected soil will be left in place beneath cover. Affected depth above the specified standard (14-16 ft) will not be encountered during construction.
2	CVOC - Above GWP RCL (DAF =20)	JY636	5-7, 11-13	MC - 549 to 1,220, TCE - 110 to 566 all in µg/kg	20	7	JY636, JY638	VC - <0.25 to 39.2, 1,2-DCA - <0.207 to 11.6 all in µg/L (detections above ES values of VC =0.2 and 1,2-DCA =5 µg/L)	-3.5 to -6	2	1,590	14-16.5	B-1	Affected soil that will be cut to obtain final grade will be moved to Area 15 and mingled with impacted fill and will be beneath cover. The remainder of the affected soil will be left in place beneath cover.
3	CVOC - Above GWP RCL (DAF =20)	CB-SHOPS-38	6-8	1,1,2-TCA - 591 µg/kg	10	2	JY640, PJ051, MW-001	VC - <0.312 to 6.6 µg/L (above ES of 0.2 µg/L)	+4 to +5, Roadway +8	10-11, Roadway 14	0	14-18	B-2	Affected soil will be left in place beneath impacted fill and cover. Area 3 is within the roadway and no buildings are expected to be placed near this area.
4-2	CVOC - Above USEPA PRG (Direct Contact - Industrial) and GWP RCL (DAF =20).	JY635, SB-635A-C	0-10	TCE - 289 to 9,630 µg/kg, PCE - 278 µg/kg, 111-TCA 58 to 3,250 µg/kg, MC - 95 µg/kg,	9-11	None	JY635, JY640, PJ051, PJ052, MW-001, C101R	TCE - <0.2 to 42.5, VC - <0.1 to 32.3, all in µg/L (Detections above ES values of TCE=5 and VC=0.2 µg/L)	+6 to +8	6 to 8	0	15-19	B-2	Affected soil will be left in place beneath impacted fill and cover.
4-1	Lead - Above NR 720 Industrial RCL-- some above NR 605 Table I Toxicity Characteristic	JY635, SB-635A-C	2-4	Total - 829 to 5,730 mg/kg, TCLP - <5 to detections of 17.5 to 146 mg/L	9-11	5	JY635, JY640, PJ051, PJ052, MW-001, C101R	Non-detect	+5 to +8	7 to 10	0	14-19	A-2	Affected soil will be left in place beneath impacted fill and cover.
4-3	CVOC - Above GWP RCL (DAF =20)	JY635, SB-635A-F	0-10	TCE - 289 to 9,630 µg/kg, PCE - 278 µg/kg, 111-TCA 58 to 3,250 µg/kg, MC - 65 to 538 µg/kg,	9-11	None	JY635, JY640	TCE - <0.2 to 42.5, VC - <0.1 to 32.3, all in µg/L (Detections above ES values of TCE=5 and VC=0.2 µg/L)	+5 to +8	5 to 8	0	14-19	B-2	Affected soil will be left in place beneath impacted fill and cover.

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5	Lead - Above NR 720 Industrial RCL	CB-SHOPS-58/58A	6-8	Total - 517 mg/kg, TCLP - Not Analyzed	11	3	JY640, PJ051, MW-001	Non-detect	-6 to 1	2 to 7	1,060	5-12	A-1	Affected soil that will be cut to obtain final grade will be moved to Area 17 and mingled with impacted fill and will be beneath cover. The remainder of the soil will be left in place beneath cover.
6	Lead - Above NR 720 Industrial RCL	CB-SHOPS-51	2-4	Total - 1,050 mg/kg, TCLP - non-detect <5 mg/L.	9	5	PJ051, JY0640, MW-001, PJ060	Non-detect	+3 to +5	5 to 7	0	12-14	A-2	Affected soil will be left in place beneath impacted fill and cover.
7-1	CVOC - Above GWP RCL (DAF =20)	CB-SHOPS-56, CB-SHOPS-57	2-4, 6-8	Chlorbenzene - 2,450, MC - 91, TCE - 70 all in µg/kg	9-10	1-2	PJ051	VC - <0.582 to 0.82 µg/L (above ES value of 0.2 µg/L)	-4 to +2	2 to 4	1,058	5-12	B-1	Affected soil that will be cut to obtain final grade will be moved to Area 15 and mingled with impacted fill and will be beneath cover. The remainder of the affected soil will be left in place beneath cover.
7-2	Free Product - Petroleum Hydrocarbon Sheen at Water Table	temp Well #5	At Water Table (Sheen Not Measurable)	Not Applicable	9-10	None	PJ051	VC - <0.582 to 0.82 µg/L (above ES value of 0.2 µg/L)	-4 to +1.5	5 to 11	975	5-12	C	Soil that will be cut to obtain final grade, due to CVOCs, will be moved to Area 15 and mingled with impacted fill and will be beneath cover. The remainder of the affected soil will be left in place beneath cover.
8	Ethylbenzene - Above USEPA PRG (Direct Contact - Industrial) and GWP RCL (DAF =20).	CB-AH-03, CB-AH-03C to E	6-8, 12-14, 20-22, 22-24	143 to 670,000 µg/kg	23.5	None	JY639	<5 to 200 µg/L (note- not above ES value of 700)	No changes planned in proposed grading plan.	6	0	23.5	E	Affected soil will be left in place. No plan has been made to alter this area and affected soil is not at the surface; therefore, no changes will be made in this area.
9	CVOC - Above GWP RCL (DAF =20)	PJ060	0-2	TCE - 131 µg/kg	14	12	PJ060	No detections above ES	-6 to 0	2	524	8-14	B-1	Affected soil that will be cut to obtain final grade will be moved to Area 15 and mingled with impacted fill and will be beneath cover. The remainder of the soil will be left in place beneath cover.

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10-1	Lead - Above NR 720 Industrial RCL-- some also above NR 605 Table I Toxicity Characteristic	PC297, SB-297B-C	2-6	Total - 144 to 2,510 mg/kg, TCLP - non-detects <5 to detections of 6.56 to 27.5 mg/L.	11-14	5-8	PC298, PC297	<1.4 to 1.74 µg/L (below ES value of 15µg/L)	-5 to +5	2 to 7	604	6-19	A-1	Affected soil that will be cut to obtain final grade will be moved to Area 17, beneath fill materials (impacted fill and cover) The remainder of the soil will be left in place beneath cover.
10-2	CVOC - Above GWP RCL (DAF =20)	PC298	4-6	Carbon Tetrachloride - 94 µg/kg	11-14	5-8	PC298, PC297	1,1,2,2-PCA - <0.25 to 1.38, VC - <0.25 to 0.74 all in µg/L (above ES value of 1,1,2,2-TCA = 0.2 and VC = 0.2 µg/L)	-2 to +5	2 to 9	130	9-19	B-1	Affected soil that will be cut to obtain final grade, due to lead and CVOCs, will be moved to the north end of Area 10, that requires fill materials, and mingled with impacted fill and will be beneath cover. The remainder of the soil will be left in place beneath cover.
11	Lead - Above NR 720 Industrial RCL	CB-SHOPS-43	2-4	Total - 1,060 mg/kg, TCLP non-detect <5 mg/L.	12	8	BW-98-3	<1 to 2.02 µg/L (below ES value of 15 µg/L)	-1 to +6.5	2 to 8.5	71	11-18.5	A-1	Affected soil that will be cut to obtain final grade will be moved to the west edge of Area 11, that requires fill materials, and mingled with impacted fill and will be beneath cover. The remainder of the affected soil will be left in place beneath cover.
12	Lead - Above NR 720 Industrial RCL	CB-AH-11	13-15	Total - 2,750 mg/kg, TCLP - 1.23 mg/L	JY467 ~23, JY468 ~ 12	Between None to 8	JY467	<1.4 to 3.34 µg/L (below ES value of 15µg/L)	No changes planned in proposed grading plan.	13	0	12-23	A-2	Affected soil will be left in place. No plan has been made to alter this area and affected soil is not at the surface; therefore, no changes will be made in this area.
13	CVOC - Above GWP RCL (DAF =20)	CB-SHOPS-29	36-38	cis-1,2-DCE - 831, TCE - 2,360, VC - 255 all in µg/kg	40.5	2.5	JY630, JY633	VC - <0.25 to 55.1 µg/L (Above ES value of 0.2 µg/L)	-24.5 to -26.5	11.5 to 9.5	0	16-14	B-2	Affected soil will be left in place beneath cover. Affected depth above the specified standard (36-38 ft) will not be encountered during construction.
14-1	Free Product - Petroleum Hydrocarbon Sheen at Water Table	Temp Well 054/SB054A	At Water Table (Sheen Not Measurable)	Not Applicable	6	None	PJ054, PJ060	VC - <0.25 to 0.55 µg/L (above ES value of 0.2 µg/L)	+4 to +6.5, Roadway 7	10 to 12.5, Roadway 13	0	10-13	C	Affected soil will be left in place beneath impacted fill and cover.

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14-2	CVOC - Above GWP RCL (DAF =20)	SB-054B, PJ054	4-6	PCE - 100, 1,2-DCA - 184 , 1,2,3-TCP - 380 MC - 110, Chlorobenzene - 2,190 to 5,510 all in µg/kg	6	None	PJ054, PJ060, BW-98-2	VC - <0.1 to 0.55 µg/L (detection above ES value of 0.2 µg/L)	+4 to +6.5, Roadway 7	8 to 10.5, Roadway 11	0	10-13	A-2	Affected soil will be left in place beneath impacted fill and cover.
15-1	CVOC - Above USEPA PRG (Direct Contact - Industrial) and GWP RCL (DAF =20).	CB-Shops-62	1-3	TCE - 469, 1,1-DCE - 67, 1,1,1-TCA - 9,380 all in µg/kg	5	2	PJ102(I), PJ103(MW), BW-4A, BW-4AR(MW), BW-4AD(I), PJ053(D), JY497(MW), JY498(MW)	BDCM - <0.2 to 11.2, CA - <0.15 to 1,640, MC - <0.25 to 180, N-VOC - <0.25 to 77, 1,1-DCE - <0.2 to 36.8, Cis-1,2-DCE - <0.23 to 20,700, Trans-1,2-DCE - <0.25 to 133, PCE - <0.2 to 5.6, 1,1,1-TCA - <0.25 to 3,420, TCE - <0.2 to 2,600, VC - <0.1 to 3,900 all in µg/L (all constituents have at least one detection above the ES value)	+7 to +8	8 to 9	0	12-13	B-2	Affected soil will be left in place beneath separation material, impacted fill and cover.
15-2	CVOC - Above GWP RCL (DAF =20)	CB-SHOPS-61&62	1-3	TCE - 469, 1,1-DCE - 67, 1,1,1-TCA - 7980 to 9380, all in µg/kg	5	2	PJ102(I), PJ103(MW), BW-4A, BW-4AR(MW), BW-4AD(I), PJ053(D), JY497(MW), JY498(MW)	BDCM - <0.2 to 11.2, CA - <0.15 to 1,640, MC - <0.25 to 180, N-VOC - <0.25 to 77, 1,1-DCE - <0.2 to 36.8, Cis-1,2-DCE - <0.23 to 20,700, Trans-1,2-DCE - <0.25 to 133, PCE - <0.2 to 5.6, 1,1,1-TCA - <0.25 to 3,420, TCE - <0.2 to 2,600, VC - <0.1 to 3,900 all in µg/L (all constituents have at least one detection above the ES value)	+6 to +8	7 to 9	0	11-13	B-2	Affected soil will be left in place beneath separation material, impacted fill and cover.

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16	CVOC - Above GWP RCL (DAF =20)	CB-SHOPS-20&21, JY498	0-2, 2-4, 3-5	TCE - 115 to 217, MC - 192 all in µg/kg	6-8	1-3	JY497, PJ054	VC - <0.25 to 307, cis-1,2-DCE - <0.25 to 510 all in µg/L (above ES value of VC=0.2 and cis-1,2-DCE=70)	-1 to +7	2 to 7	24	5-15	B-1	Affected soil that will be cut to obtain final grade will be moved to the north end of Area 16, that requires fill materials, and mingled with impacted fill and will be beneath cover. The remainder of the soil will be left in place beneath cover.
17	Lead - Above NR 605 Table I Toxicity Characteristic	STS Boring B-26A	2.5-4	TCLP - 17.1 mg/L	6-7	2-3	PJ054, PF205	Non-detect	+7	9.5	0	13-14	A-2	Affected soil will be left in place beneath impacted fill and cover.
18	Lead - Above NR 720 Industrial RCL	CB-SHOPS-26	6-8	Total - 700 mg/kg, TCLP - Non-detect	8	None	PJ054, BW98-2, B-49	Non-detect	+4 to +5 , Roadway +5	10 to 11, Roadway 11	0	12-13	A-2	Affected soil will be left in place beneath impacted fill and cover.
19	Free Product - Petroleum Hydrocarbon Sheen at Water Table	Temp well #1, 1A and 1C	At Water Table (Sheen Not Measurable)	Not Applicable	5	None	PJ058, B-42, PF207	No detection above ES	+9 to +10	14 to 15	0	14-15	C	Affected soil will be left in place beneath separation material, impacted fill and cover.
20	Lead - Above NR 720 Industrial RCL	JY629	2-4	Total - 502 mg/kg, TCLP - Not Analyzed	6	2	JY629, PF207, BW98-1	<1 to 14.5 µg/L (below ES value of 15 µg/L)	+9 to +11	11 to 13	0	15-17	A-2	Affected soil will be left in place beneath impacted fill and cover.
21	Free Product - Measurable and/or Suspended Petroleum Hydrocarbons	JY500, Sewer/LD3-SS-01, Oil Water Separator, Temp Well 500A, Temp Well 500B, Temp Well 500C	Measured Thickness = 0 to 3 feet	Not Applicable	5-10	None	JY500, JY620, BW-21A	Minimal detections and no detections above ES except MC - <0.4 to 18 µg/L with ES for MC = 5 µg/L	1 to +12, Roadway +8 to +20	6 to 17, Roadway 13 to 25	0	6-30	D	Free phase product is planned to be removed contingent upon the success of the pilot test. Soil will be left in place beneath separation material, impacted fill and cover/the roadway.
22	Free Product - Measurable and/or Suspended Petroleum Hydrocarbons	Temp well #2 & 2A to 2B, Temp well #3 & 3A to 3C, PJ059, JY477	Measured thickness = 0-4.95'	Not Applicable	5	None	JY477, PJ059, JY478	No detection above ES	No changes planned in proposed grading plan.	5	0	5	D	Free phase product is planned to be removed contingent upon the success of the pilot test. Affected soil will be left in place as no plans have been made to make changes to this area.
23	Free Product - Petroleum Hydrocarbon Sheen at Water Table	JY479, Temp well 479A to 479C	At Water Table (Sheen Not Measurable)	Not Applicable	3-4	None	JY479, B17	No detection above ES	+6 to +7	9 to 10	0	9-11	C	Affected soil will be left in place beneath separation materials, impacted fill and cover.

TABLE 1
Soil Areas of Concern and Related Groundwater Conditions
The Shops Site
City of Milwaukee, WI

Area of Concern	Constituents of Concern	Borings With Detections Above Standard (Above Water Table)	Affected Depths (feet bls)	Detected Concentration Range (Detections - for constituents detected above specified standard at least once)	Avg. Depth from Existing Ground Surface to High GW Table in Area (feet)	Approximate Separation Between Affected Soil and Groundwater Elevation (feet)	Associated Wells	Groundwater Concentrations	Proposed Cut(-)/Fill(+) Amount Versus Existing Grade (feet)	Approximate Separation Between Final Grade and Affected Soil (feet)	Approximate Volume of Affected Soil to be Cut (yd ³), if any	Approximate Separation Between Final Grade and High GW Table (feet)	Proposed Action/ Rationale Category*	Summary
24	Lead - Above NR 720 Industrial RCL	CB-SHOPS-22	4-6	Total - 747 mg/kg, TCLP - Non-detect	6	None	JY620	<1.4 to 3.9 µg/L (below ES value of 15µg/L)	+7 to +9	11 to 13	0	13-15	A-2	Affected soil will be left in place beneath separation materials, impacted fill and cover.

Notes:

*Institutional controls will need to be determined for the entire site (e.g. maintenance of cover, groundwater usage, vapor mitigation systems) and 40-hour trained contractors will be required for invasive work.

Proposed Action/Rationale categories ("A-1, A-2, C, etc.) are described fully in Table 2.

bls - below land surface

I - Intermediate Piezometer

D - Deep Piezometer

DAF- Dilution Attenuation Factor. The ratio between groundwater flow beneath the area of soil contamination and infiltration through the area of soil contamination. USEPA's Soil Screening Guidance uses a DAF = 20 as a default assumption.

MW - Monitoring Well (generally intersects GW table - shallow).

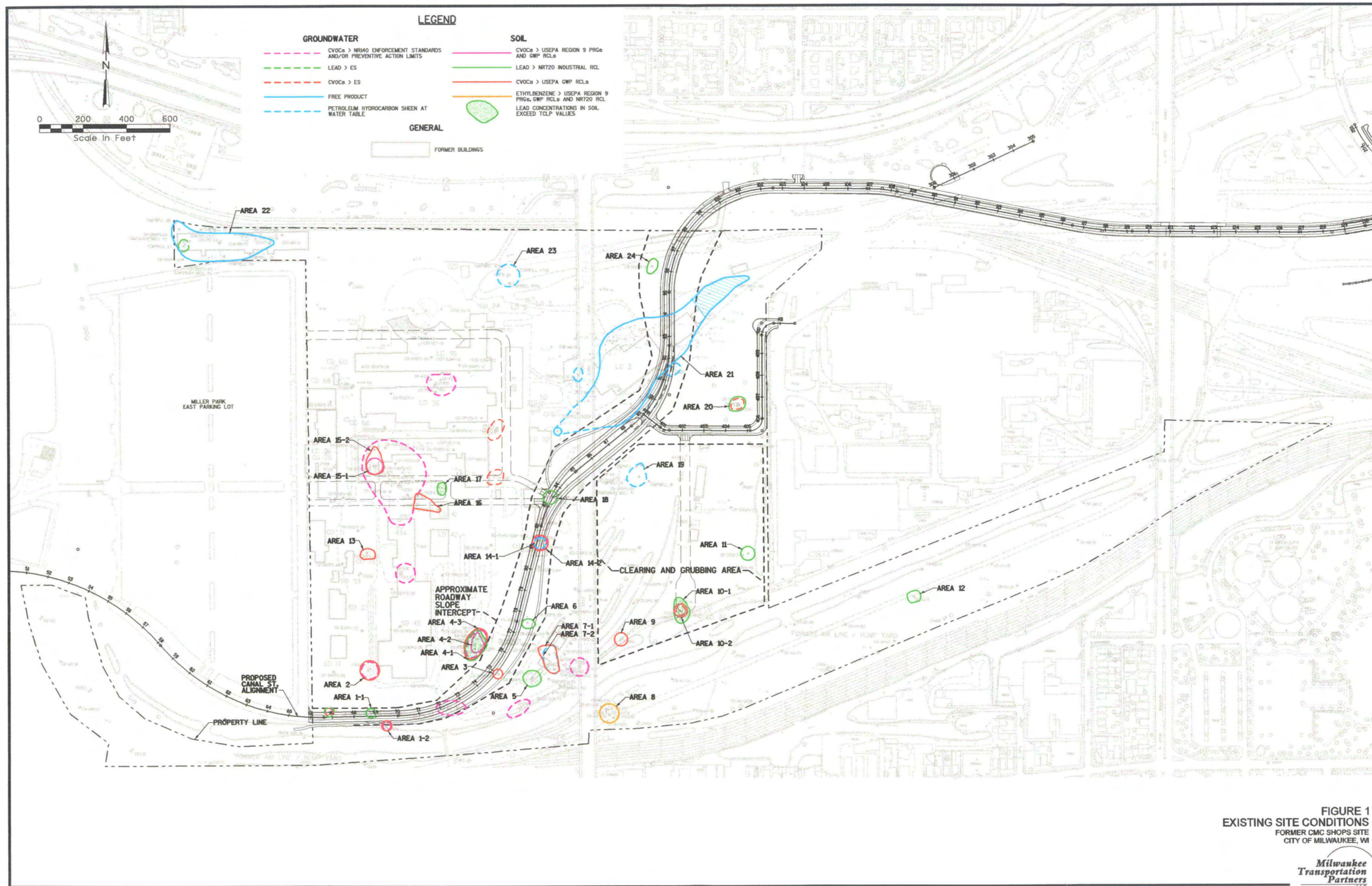
PRGs - Preliminary remediation goals--USEPA Region 9 standards indicative of potential direct contact hazards (ingestion, dermal contact, and inhalation) to site workers. The standards are developed for individual constituents based on available toxicity and other risk data for each constituent, and assuming industrial exposures, rather than residential. The 1 x 10-6 risk for carcinogens or HI = 1 for noncarcinogens are used.

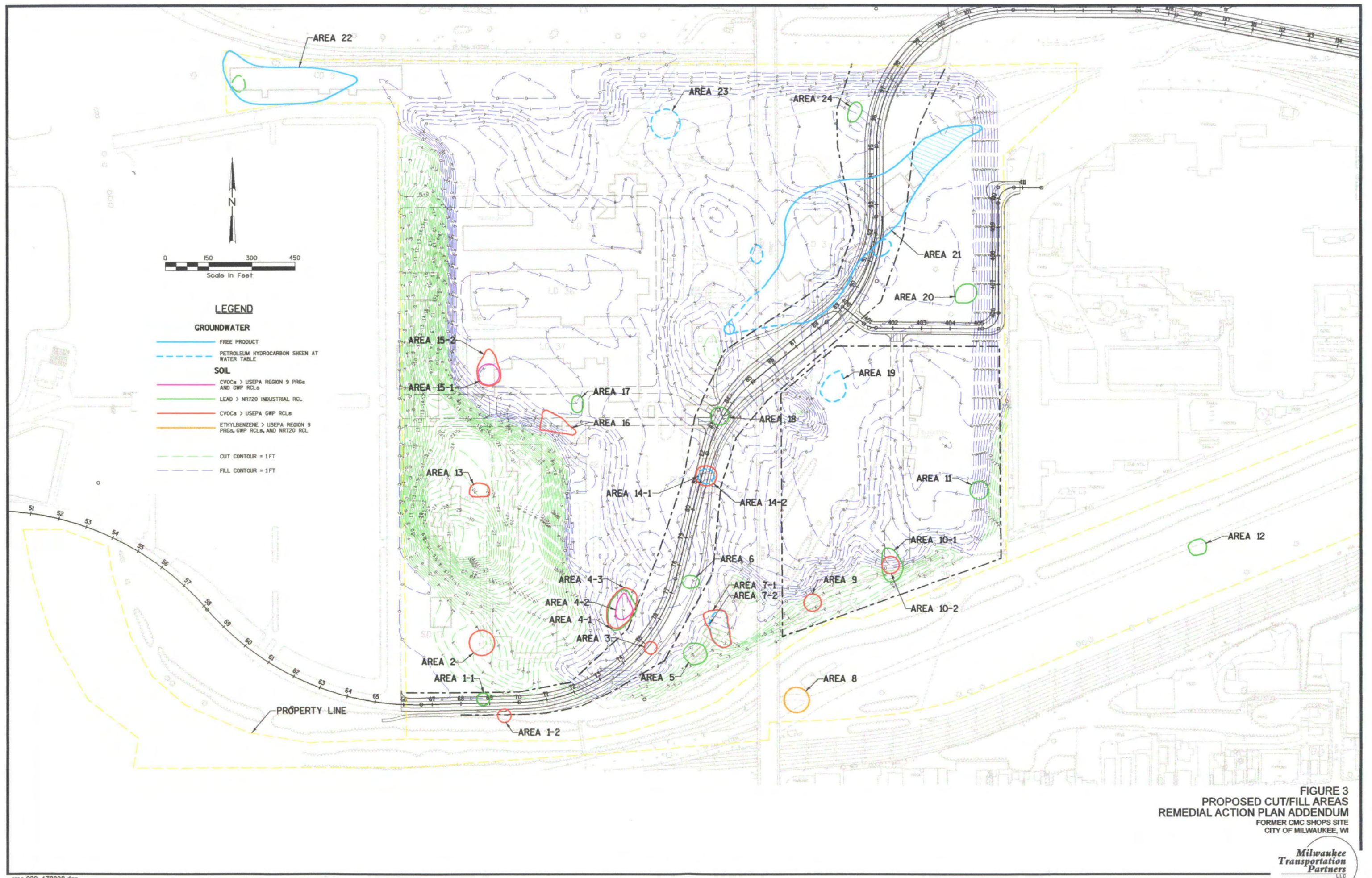
GWP - Groundwater protection criteria developed using USEPA methodology in the Soil Screening Guidance: User's Guide EPA 9355.4-23 (July 1996). The standards are developed for individual constituents based on available chemical properties and site data (hydrogeology, contaminant plume), and are the same for industrial, commercial, and residential land use. Note: USEPA Region III Risk Based concentration Soil Screening Levels with a DAF of 20 were used when GWP RCLs were not available.

RCL- Residual Contaminant Level

TABLE 2
Summary of Proposed Actions and Rationale for Soil Areas of Concern
The Shops Site
City of Milwaukee, WI

Constituents of Concern		Category Designation	Proposed Action	Rationale
Lead		A-1	Proposed final grade requires cutting into affected soil; move soil with 40-hour-trained contractors and consolidate the material at onsite lead areas that have similar impacts and need impacted fill and cover to meet final grade.	Soil with lead exceeding NR 720 Industrial RCL will, at a minimum, have a cover over the affected soil. Lead is typically not a mobile compound and does not leach to groundwater. Site wide groundwater results show that lead is not leaching to groundwater and therefore concerns of migration to groundwater are minimal.
		A-2	Proposed final grade specifies fill; leave affected soil in place and cover with required fill materials.	
CVOCs		B-1	Proposed final grade requires cutting into affected soil; move soil with 40-hour-trained contractors and consolidate the material at onsite CVOC areas that have similar impacts and need impacted fill and cover to meet final grade. Soil and groundwater will be allowed to naturally attenuate. Evaluate the inhalation pathway if buildings are planned in close proximity to the CVOC zones. If evaluation indicates VOC inhalation may result in unacceptable risk, either remediate the CVOC zones to protective concentrations or design and construct the buildings with a vapor mitigation/ventilation system.	Groundwater data shows that biological reductive dechlorination is occurring. There are no known current risks related to the soil and groundwater CVOCs (due to the lack of people present onsite). The only potential future exposure pathway of concern is inhalation of VOCs and this will be addressed. The groundwater also does not appear to affect environmental receptors because CVOC groundwater concentrations attributable to the Shops Site are not likely present in measurable concentrations in the Menomonee River. Therefore, natural attenuation of the soil and groundwater CVOC concentrations is protective of public health and the environment.
		B-2	Proposed final grade specifies fill; leave affected soil in place and cover with required fill materials. Soil and groundwater will be allowed to naturally attenuate. Evaluate the inhalation pathway if buildings are planned in close proximity to the CVOC zones. If evaluation indicates VOC inhalation may result in unacceptable risk, either remediate the CVOC zones to protective concentrations or design and construct the buildings with a vapor mitigation/ventilation system.	
Free Product	Sheen at Water Table	C	The areas with only a sheen at the water table will be left in place to naturally attenuate. Evaluate the inhalation pathway if buildings are planned in close proximity to the free product. If evaluation indicates VOC inhalation may result in unacceptable risk, either remediate the free product area to protective concentrations or design and construct the buildings with a vapor mitigation/ventilation system.	Due to soil conditions/properties and the lack of measurable free product, removal of free product "sheen" does not appear possible. The free phase product in these areas appear to be stable and additional migration does not appear to be occurring. Other than potential inhalation risks that will be evaluated, there are no other known exposure pathways of concern. Free product "sheen" conditions/properties indicate the inhalation pathway will not likely be a risk.
	Measurable	D	Pilot test to determine feasibility of recovering the free phase. Implement recovery if feasible. If free phase removal is not-feasible, allow to naturally attenuate. Evaluate the inhalation pathway if buildings are planned in close proximity to the free product. If evaluation indicates VOC inhalation may result in unacceptable risk, either remediate the free product area to protective concentrations or design and construct the buildings with a vapor mitigation/ventilation system.	A free product removal system will be installed if removal is feasible. The free phase product in this area appears to be stable and additional migration does not appear to be occurring. Other than potential inhalation risks that will be evaluated, there are no other known exposure pathways of concern. Free phase product conditions/properties indicate the inhalation pathway will not likely be a risk.
Ethylbenzene		E	Leave affected subsurface soil in place. Soil and groundwater will be monitored and allowed to naturally attenuate.	Ethylbenzene groundwater concentrations in the vicinity of this area do not exceed the ES. The soil may need institutional controls in place because it is separate from the Shops Site area, and is south of the Menomonee River. The ethylbenzene in groundwater also does not affect environmental receptors because ethylbenzene detections in the well directly adjacent to the river are at relatively low levels (<ES), thus measurable concentrations, attributable to the Shops Site, are not likely present in the river.





RECORDED CERTIFIED SURVEY MAP

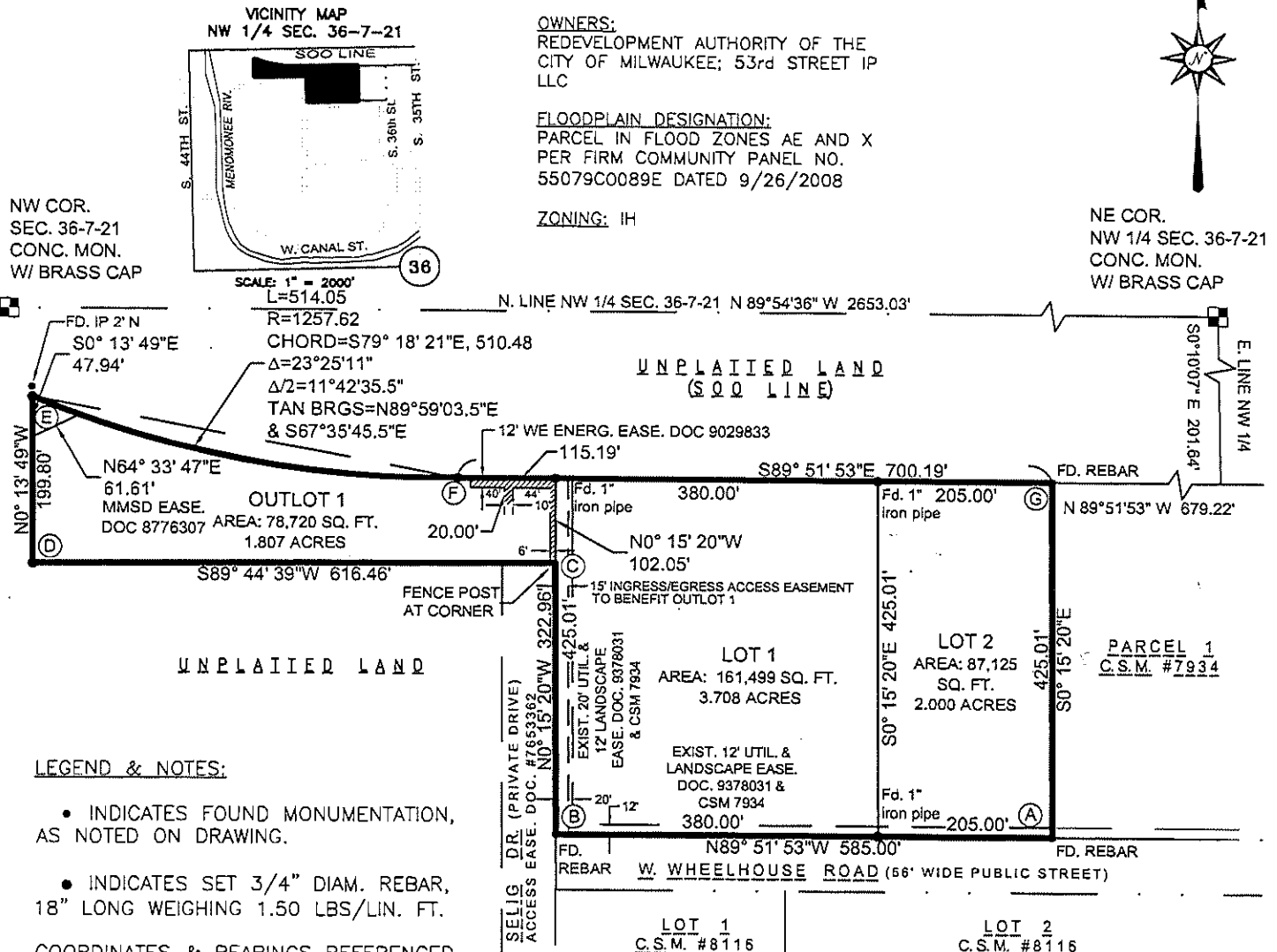
Date Recorded: December 5, 2014
CSM No.: 8648
Document No. 10417379

DLD # 2991

CERTIFIED SURVEY MAP NO. 8648

ALL OF PARCEL 2 OF CERTIFIED SURVEY MAP NO. 7934 IN THE NORTHWEST 1/4 AND THE NORTHEAST 1/4 OF THE NORTHWEST 1/4 OF SECTION 36, TOWN 7 NORTH, RANGE 21 EAST, CITY OF MILWAUKEE, MILWAUKEE COUNTY, WISCONSIN.

TAX KEY # 423-0022-000 ADDRESS: 3760 WHEELHOUSE ROAD



LEGEND & NOTES:

- INDICATES FOUND MONUMENTATION, AS NOTED ON DRAWING.
- INDICATES SET 3/4" DIAM. REBAR, 18" LONG WEIGHING 1.50 LBS/LIN. FT.

COORDINATES & BEARINGS REFERENCED TO THE EAST LINE OF THE NW 1/4 OF SEC. 36-7-21 ASSUMED TO BEAR N 0°10'07" W.

DISTANCES MEASURED TO THE NEAREST 0.01'. ANGLES MEASURED TO THE NEAREST 01" AND COMPUTED TO THE NEAREST 00.5".

INTERIOR ANGLES

A	89°36'33"
B	90°23'27"
C	270°00'01"
D	89°58'28"
E	79°04'32"
F	190°33'32"
G	90°23'27"

GRAPHIC SCALE



THE SIGMA GROUP
Single Source. Sound Solutions.
www.thesigmagroup.com
1300 West Canal Street
Milwaukee, WI 53233
Phone: 414-643-4200
Fax: 414-643-4210

PROJECT NUMBER 12790 DRAFTED BY BMR 6-04-14

Sheet 1 of 5



INFRASTRUCTURE SERVICES DIVISION
8/11/14
CENTRAL DRAFTING & RECORDS MANAGER
2 Timothy J. Thun 8/18/14
ENGR. IN CHARGE ENVIRON. ENGR.
CORRECT
CITY ENGINEER
APPROVED

DEPARTMENT OF CITY DEVELOPMENT
CITY OF MILWAUKEE

APR 28, 2014

STAFF APPROVED

RECORDED CERTIFIED SURVEY MAP

Date Recorded: December 5, 2014

CSM No.: 8648

Document No. 10417379

City of Milwaukee - Dept. of City Development
809 N. Broadway, Milwaukee, WI 53202

CERTIFIED SURVEY MAP NO. 8648

ALL OF PARCEL 2 OF CERTIFIED SURVEY MAP NO. 7934 IN THE NORTHWEST 1/4 AND THE NORTHEAST 1/4 OF THE NORTHWEST 1/4 OF SECTION 36, TOWN 7 NORTH, RANGE 21 EAST, CITY OF MILWAUKEE, MILWAUKEE COUNTY, WISCONSIN.

SURVEYOR'S CERTIFICATE

STATE OF WISCONSIN)
SS
MILWAUKEE COUNTY)

I, BAIBA M. ROZITE, REGISTERED LAND SURVEYOR, HEREBY CERTIFY: THAT I HAVE SURVEYED, DIVIDED AND MAPPED ALL OF PARCEL 2 OF CERTIFIED SURVEY MAP NO. 7934, IN THE NORTHWEST 1/4 AND THE NORTHEAST 1/4 OF THE NORTHWEST 1/4 OF SECTION 36, TOWN 7 NORTH, RANGE 21 EAST, CITY OF MILWAUKEE, MILWAUKEE COUNTY, WISCONSIN, BEING MORE PARTICULARLY BOUNDED AND DESCRIBED AS FOLLOWS:

COMMENCING AT THE NORTHEAST CORNER OF SAID NORTHWEST 1/4 SECTION; THENCE SOUTH 0°10'07" EAST, 201.64 FEET ALONG THE EAST LINE OF SAID NW 1/4 SECTION TO THE SOUTH LINE OF SOO LINE RAILROAD COMPANY RIGHT OF WAY; THENCE NORTH 89°51'53" WEST, 679.22 FEET ALONG SAID SOUTH LINE TO THE POINT OF BEGINNING OF THIS DESCRIPTION;

THENCE SOUTH 0°15'20" EAST, 425.01 FEET ALONG THE WEST LINE OF PARCEL 1 OF CERTIFIED SURVEY MAP NO. 7934 TO THE NORTH LINE OF WEST WHEELHOUSE ROAD; THENCE NORTH 89°51'53" WEST, 585.00 FEET ALONG SAID NORTH LINE; THENCE NORTH 0°15'20" WEST, 322.96 FEET; THENCE SOUTH 89°44'39" WEST, 616.46 FEET; THENCE NORTH 0°13'49" WEST, 199.80 FEET TO THE SOUTH LINE OF SOO LINE RAILROAD COMPANY RIGHT OF WAY AND TO THE BEGINNING OF A 1257.62 FOOT RADIUS NON-TANGENT CURVE TO THE LEFT, WHOSE CHORD BEARS SOUTH 79°18'21" EAST, 510.48 FEET; THENCE SOUTHEASTERLY, 514.05 FEET ALONG THE ARC OF SAID CURVE AND SAID SOUTH LINE; THENCE SOUTH 89°51'53" EAST, 700.19 FEET ALONG SAID SOUTH LINE TO THE POINT OF BEGINNING.

SAID PARCEL CONTAINS 327,343 SQUARE FEET OR 7.515 ACRES OF LAND, MORE OR LESS.

THAT I HAVE MADE THE SURVEY, LAND DIVISION, AND MAP BY THE DIRECTION OF THE REDEVELOPMENT AUTHORITY OF THE CITY OF MILWAUKEE, OWNER OF SAID LAND. THAT THE MAP IS A CORRECT REPRESENTATION OF ALL THE EXTERIOR BOUNDARIES OF THE LAND SURVEYED AND THE LAND DIVISION THEREOF MADE. THAT I HAVE FULLY COMPLIED WITH S. 236.34 OF THE WISCONSIN STATUTES AND CHAPTER 119 OF THE MILWAUKEE CODE OF ORDINANCES IN SURVEYING, DIVIDING AND MAPPING THE SAME.


BAIBA M. ROZITE S-2351

6-04-14

DATE



CERTIFIED SURVEY MAP NO. 8648

ALL OF PARCEL 2 OF CERTIFIED SURVEY MAP NO. 7934 IN THE NORTHWEST 1/4 AND THE NORTHEAST 1/4 OF THE NORTHWEST 1/4 OF SECTION 36, TOWN 7 NORTH, RANGE 21 EAST, CITY OF MILWAUKEE, MILWAUKEE COUNTY, WISCONSIN.

CORPORATE OWNER'S CERTIFICATE

THE REDEVELOPMENT AUTHORITY OF THE CITY OF MILWAUKEE, A CORPORATION DULY ORGANIZED AND EXISTING UNDER AND BY VIRTUE OF THE LAWS OF THE STATE OF WISCONSIN AS OWNER, CERTIFIES THAT SAID CORPORATION CAUSED THE LAND DESCRIBED ON THIS MAP TO BE SURVEYED, DIVIDED, MAPPED AND DEDICATED AS REPRESENTED ON THIS MAP IN ACCORDANCE WITH THE REQUIREMENTS OF CHAPTER 119 OF THE MILWAUKEE CODE OF ORDINANCES.

IN CONSIDERATION OF THE APPROVAL OF THE MAP BY THE COMMON COUNCIL AND IN ACCORDANCE WITH CHAPTER 119 OF THE MILWAUKEE CODE, THE UNDERSIGNED AGREES:

A. THAT ALL UTILITY LINES TO PROVIDE ELECTRIC POWER AND TELEPHONE SERVICES AND CABLE TELEVISION OR COMMUNICATIONS SYSTEMS LINES OR CABLES TO ALL LOTS IN THE CERTIFIED SURVEY MAP SHALL BE INSTALLED UNDERGROUND IN EASEMENTS PROVIDED THEREFOR, WHERE FEASIBLE.

THIS AGREEMENT SHALL BE BINDING ON THE UNDERSIGNED AND ASSIGNS.

IN WITNESS WHEREOF, THE REDEVELOPMENT AUTHORITY OF THE CITY OF MILWAUKEE HAS CAUSED THESE PRESENTS TO BE SIGNED BY LOIS A. SMITH, ITS VICE-CHAIR;

AND COUNTERSIGNED BY DAVID P. MISKY, ITS ASSISTANT EXECUTIVE DIRECTOR/SECRETARY, AT MILWAUKEE, WISCONSIN,

THIS 18th DAY OF September, 20 14.

IN THE PRESENCE OF:

[Signature]
WITNESS

[Signature]
LOIS A. SMITH, VICE-CHAIR

[Signature]
WITNESS

[Signature]
DAVID P. MISKY, ASSISTANT EXECUTIVE DIRECTOR/SECRETARY

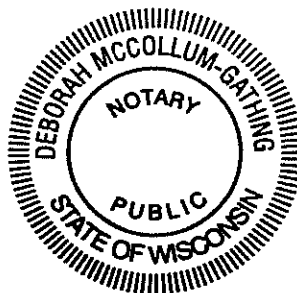
STATE OF WISCONSIN)

)SS

MILWAUKEE COUNTY)

PERSONALLY CAME BEFORE ME THIS 18 DAY OF September, 20 14, LOIS A. SMITH, VICE-VICE-CHAIR, TO ME KNOWN TO BE THE PERSON WHO EXECUTED THE FOREGOING INSTRUMENT, AND TO ME KNOWN TO BE THE VICE-CHAIR OF THE ABOVE-NAMED CORPORATION, AND ACKNOWLEDGED THAT SHE EXECUTED THE FOREGOING INSTRUMENT AS SUCH OFFICER AS THE DEED OF THE CORPORATION, BY ITS AUTHORITY.

[Signature]
(SEAL) NOTARY PUBLIC, STATE OF WISCONSIN
MY COMMISSION EXPIRES October 16, 2016



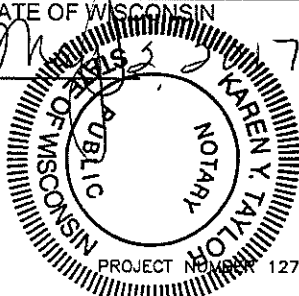
STATE OF WISCONSIN)

)SS

MILWAUKEE COUNTY)

PERSONALLY CAME BEFORE ME THIS 18 DAY OF September, 20 14, DAVID P. MISKY, ASSISTANT EXECUTIVE DIRECTOR/SECRETARY, TO ME KNOWN TO BE THE PERSON WHO EXECUTED THE FOREGOING INSTRUMENT, AND TO ME KNOWN TO BE THE ASSISTANT EXECUTIVE DIRECTOR/SECRETARY OF THE ABOVE-NAMED CORPORATION, AND ACKNOWLEDGED THAT HE EXECUTED THE FOREGOING INSTRUMENT AS SUCH OFFICER AS THE DEED OF THE CORPORATION, BY ITS AUTHORITY.

[Signature]
(SEAL) NOTARY PUBLIC, STATE OF WISCONSIN
MY COMMISSION EXPIRES March 2, 2017



THE SIGMA GROUP
Single Source. Sound Solutions.
www.thesigmagroup.com
1300 West Canal Street
Milwaukee, WI 53233
Phone: 414-643-4200
Fax: 414-643-4210

PROJECT NO. 12790 DRAFTED BY BMR 6-04-14



CERTIFIED SURVEY MAP NO. 8648

ALL OF PARCEL 2 OF CERTIFIED SURVEY MAP NO. 7934 IN THE NORTHWEST 1/4 AND THE NORTHEAST 1/4
OF THE NORTHWEST 1/4 OF SECTION 36, TOWN 7 NORTH, RANGE 21 EAST, CITY OF MILWAUKEE,
MILWAUKEE COUNTY, WISCONSIN.

CORPORATE OWNER'S CERTIFICATE

53rd STREET IP LLC, A LIMITED LIABILITY COMPANY DULY ORGANIZED AND EXISTING UNDER AND BY VIRTUE OF THE LAWS OF THE STATE OF WISCONSIN AS OWNER, CERTIFIES THAT SAID LIMITED LIABILITY COMPANY CAUSED THE LAND DESCRIBED ON THIS MAP TO BE SURVEYED, DIVIDED, MAPPED AND DEDICATED AS REPRESENTED ON THIS MAP IN ACCORDANCE WITH THE REQUIREMENTS OF CHAPTER 119 OF THE MILWAUKEE CODE OF ORDINANCES.

IN CONSIDERATION OF THE APPROVAL OF THE MAP BY THE COMMON COUNCIL AND IN ACCORDANCE WITH CHAPTER 119 OF THE MILWAUKEE CODE, THE UNDERSIGNED AGREES:

A. THAT ALL UTILITY LINES TO PROVIDE ELECTRIC POWER AND TELEPHONE SERVICES AND CABLE TELEVISION OR COMMUNICATIONS SYSTEMS LINES OR CABLES TO ALL LOTS IN THE CERTIFIED SURVEY MAP SHALL BE INSTALLED UNDERGROUND IN EASEMENTS PROVIDED THEREFOR, WHERE FEASIBLE.

THIS AGREEMENT SHALL BE BINDING ON THE UNDERSIGNED AND ASSIGNS.

IN WITNESS WHEREOF, 53rd STREET IP LLC HAS CAUSED THESE PRESENTS TO BE SIGNED BY 53RD STREET IP LLC, BY: IP VALLEY LLC, MANAGER, BY: FRANCIS BRZEZINSKI, MANAGER, AT MILWAUKEE, WISCONSIN, THIS ____ DAY OF

September 22, 2014.

53RD STREET IP LLC

BY: IP VALLEY LLC, MANAGER

BY: FRANCIS BRZEZINSKI, MANAGER

[Signature]

IN THE PRESENCE OF:

[Signature: William J. Schwartz]
WITNESS

[Signature]

STATE OF WISCONSIN)

)SS

MILWAUKEE COUNTY)

PERSONALLY CAME BEFORE ME THIS 22 DAY OF September, 2014, FRANCIS BRZEZINSKI, MANAGER, TO ME KNOWN TO BE THE PERSON WHO EXECUTED THE FOREGOING INSTRUMENT, AND TO ME KNOWN TO BE THE MANAGER OF THE ABOVE-NAMED COMPANY, AND ACKNOWLEDGED THAT THEY EXECUTED THE FOREGOING INSTRUMENT AS SUCH OFFICER AS THE DEED OF THE CORPORATION, BY ITS AUTHORITY.

[Signature: Kathleen D. O'Lochlainne]
(SEAL) NOTARY PUBLIC, STATE OF WISCONSIN
MY COMMISSION EXPIRES 2/23/18



CERTIFIED SURVEY MAP NO. 8648

ALL OF PARCEL 2 OF CERTIFIED SURVEY MAP NO. 7934 IN THE NORTHWEST 1/4 AND THE NORTHEAST 1/4
OF THE NORTHWEST 1/4 OF SECTION 36, TOWN 7 NORTH, RANGE 21 EAST, CITY OF MILWAUKEE,
MILWAUKEE COUNTY, WISCONSIN.

CITY OF MILWAUKEE COMMON COUNCIL CERTIFICATE OF APPROVAL

I CERTIFY THAT THIS CERTIFIED SURVEY MAP WAS APPROVED UNDER RESOLUTION FILE NO. 140970

ADOPTED BY THE COMMON COUNCIL OF THE CITY OF MILWAUKEE ON October 14, 2014

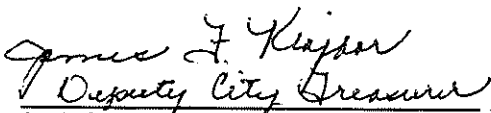

JAMES OWCZARSKI, CLERK, CITY OF MILWAUKEE


TOM BARRETT, MAYOR, CITY OF MILWAUKEE

CERTIFICATE OF CITY TREASURER STATE OF WISCONSIN)

)SS
MILWAUKEE COUNTY)

I, SPENCER COGGS, BEING THE DULY ELECTED, QUALIFIED, AND ACTING TREASURER OF THE CITY OF MILWAUKEE, DO HEREBY CERTIFY THAT IN ACCORDANCE WITH THE RECORDS IN THE OFFICE OF THE CITY TREASURER OF THE CITY OF MILWAUKEE, THERE ARE NO UNPAID TAXES OR UNPAID SPECIAL ASSESSMENTS ON THE LAND INCLUDED IN THIS CERTIFIED SURVEY MAP.


for SPENCER COGGS, 08/25/2014
CITY OF MILWAUKEE TREASURER DATE



Appendix B

Soil Boring Logs and Borehole Abandonment Forms



SOIL BORING LOG

BORING NO. GP-1

Page 1 of 1

Facility/Project Name: Wheelhouse Parcel, 3760 Wheelhouse Road - Outlot 1 232269		Date Drilling Started: 3/30/15	Date Drilling Completed: 3/30/15	Project Number: 1060-27-00
Drilling Firm: Probe Technologies	Drilling Method: Geoprobe	Surface Elev. (ft) —	TOC Elevation (ft) —	Total Depth (ft bgs) 16.0
Boring Location: N: 382255.8 E: 2512630.5 NW ¼ of NW ¼ of Sect 36, T 7 R 21 E		Personnel Logged By - A. Heeter Driller - D. Bendorf		Drilling Equipment: Geoprobe
Civil Town/City/or Village: Milwaukee	County: Milwaukee	State: WI	Water Level Observations: While Drilling: Date/Time After Drilling: Date/Time	
				Depth (ft bgs) Depth (ft bgs)

SAMPLE		BLOW COUNTS	DEPTH IN FEET	LITHOLOGIC DESCRIPTION	USCS	GRAPHIC LOG	PID (PPM)	COMMENTS
NUMBER AND TYPE	RECOVERY (%)							
GP	100		0	Dark brown, FILL with Sand and Gravel, and (25%) Foundry Sand	F		36.7	Slight odors
GP	100		2				49.8	Sample: GP-1 (2'-4')
GP	100		4	Gray with black staining, SAND, moist	SW		880.7	Black staining and petroleum odors
GP	100		6					Temporary well installation
GP	100		8	Wet at 7'			906.3	Sample: GP-1 (6'-8')
GP	83		10				16.7	
GP	83		12	Light gray, Silty SAND	SW-SM		19.9	No stains or odors
GP	100		14				-	Sample: GP-1 (14'-16')
GP	100		16	EOB at 16'			-	

SOIL BORING WELL CONSTRUCTION LOG WHEELHOUSE 232269 GP-1 1060-27-00 4/23/15

Signature:

Firm: TRC Environmental
150 N. Patrick Blvd. Brookfield/Wisconsin/53045(262) 879-1212
Fax (262) 879-1220



SOIL BORING LOG

BORING NO. GP-2

Page 1 of 1

Facility/Project Name: Wheelhouse Parcel, 3760 Wheelhouse Road - Outlot 1 232269		Date Drilling Started: 3/30/15		Date Drilling Completed: 3/30/15		Project Number: 1060-27-00	
Drilling Firm: Probe Technologies		Drilling Method: Geoprobe		Surface Elev. (ft) --		TOC Elevation (ft) --	
Boring Location: N: 382268.8 E: 2512712.8 NW ¼ of NW ¼ of Sect 36, T 7 R 21 E		Personnel Logged By - A. Heeter Driller - D. Bendorf		Total Depth (ft bgs) 16.0		Borehole Dia. (in) 2.125	
Civil Town/City/or Village: Milwaukee		County: Milwaukee		State: WI		Drilling Equipment: Geoprobe	
		Water Level Observations: While Drilling: Date/Time After Drilling: Date/Time		Depth (ft bgs) Depth (ft bgs)			

SAMPLE		BLOW COUNTS	DEPTH IN FEET	LITHOLOGIC DESCRIPTION	USCS	GRAPHIC LOG	PID (PPM)	COMMENTS
NUMBER AND TYPE	RECOVERY (%)							
GP	100		2	Dark brown, FILL with Sand, Gravel, and (50%) Foundry Sand	F		1.3	No stains or odors
GP	100		4	Dark brown, SILT, semi-cohesive, semi-plastic			1.7	
GP	100		6				3.9	Sample: GP-2 (4'-6')
GP	100		8	Free product present from 8'-10'			60.7	
GP	100		10	Wet at 9'	ML		296.7	Sample: GP-2 (8'-10')
GP	100		12				205.7	
GP	100		14				19.6	
GP	100		16	EOB at 16'			3.2	Sample: GP-2 (14'-16')

Signature:

Firm:

TRC Environmental
150 N. Patrick Blvd. Brookfield/Wisconsin/53045 Fax (262) 879-1220

(262) 879-1212

SOIL BORING WELL CONSTRUCTION LOG WHEELHOUSE 232269.GPJ 1060-27-00 4/28/15



SOIL BORING LOG

BORING NO. GP-3

Page 1 of 1

Facility/Project Name: Wheelhouse Parcel, 3760 Wheelhouse Road - Outlot 1 232269		Date Drilling Started: 3/30/15	Date Drilling Completed: 3/30/15	Project Number: 1060-27-00
Drilling Firm: Probe Technologies	Drilling Method: Geoprobe	Surface Elev. (ft) —	TOC Elevation (ft) —	Total Depth (ft bgs) 12.0
Boring Location: N: 382274.0 E: 2512828.8 NW ¼ of NW ¼ of Sect 36, T 7 R 21 E		Personnel Logged By - A. Heeter Driller - D. Bendorf		Drilling Equipment: Geoprobe
Civil Town/City/or Village: Milwaukee	County: Milwaukee	State: WI	Water Level Observations: While Drilling: Date/Time After Drilling: Date/Time	
			Depth (ft bgs) Depth (ft bgs)	

SAMPLE		BLOW COUNTS	DEPTH IN FEET	LITHOLOGIC DESCRIPTION	USCS	GRAPHIC LOG	PID (PPM)	COMMENTS
NUMBER AND TYPE	RECOVERY (%)							
GP	100		0	Light brown, SAND with Gravel and (15%) Foundry Sand, dry			<1	No stains or odors
GP	100		2		SW		<1	Sample: GP-3 (2'-4')
GP	83		4	Dark brown, SILT, semi-cohesive, semi-plastic			<1	No stains or odors
GP	83		6				50.3	
GP	100		8		ML		607.3	Sample: GP-3 (8'-10') Petroleum odor
GP	100		10	Wet and free product at 10'			1011.2	
			12	EOB at 12'				
			14					
			16					

Signature:

Firm:

TRC Environmental

(262) 879-1212

150 N. Patrick Blvd. Brookfield/Wisconsin/53045 Fax (262) 879-1220

SOIL BORING WELL CONSTRUCTION LOG WHEELHOUSE 232269.GPJ 1060-27-00 4/23/15

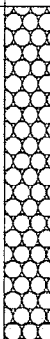


SOIL BORING LOG

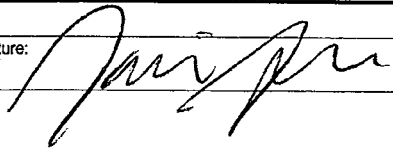
BORING NO. GP-4

Page 1 of 1

Facility/Project Name: Wheelhouse Parcel, 3760 Wheelhouse Road - Outlot 1 232269		Date Drilling Started: 3/30/15	Date Drilling Completed: 3/30/15	Project Number: 1060-27-00	
Drilling Firm: Probe Technologies	Drilling Method: Geoprobe	Surface Elev. (ft) —	TOC Elevation (ft) —	Total Depth (ft bgs) 12.0	Borehole Dia. (in) 2.125
Boring Location: N: 382278.2 E: 2512940.5 NW ¼ of NW ¼ of Sect 36, T 7 R 21 E		Personnel Logged By - A. Heeter Driller - D. Bendorf		Drilling Equipment: Geoprobe	
Civil Town/City/Village: Milwaukee	County: Milwaukee	State: WI	Water Level Observations: While Drilling: Date/Time After Drilling: Date/Time		
			Depth (ft bgs) Depth (ft bgs)		

SAMPLE		BLOW COUNTS	DEPTH IN FEET	LITHOLOGIC DESCRIPTION	USCS	GRAPHIC LOG	PID (PPM)	COMMENTS
NUMBER AND TYPE	RECOVERY (%)							
GP	100		2	Light brown, FILL, Sand, Gravel, and (30%) Foundry Sand	F		0.9	No odors or staining
GP	100		4				1.3	Sample: GP-4 (2'-4')
GP	100		6	Dark gray, Sandy SILT, moist			107.6	
GP	100		8	Free product at 8'	ML		566.7	Sample: GP-4 (6'-8') Strong petroleum odor
GP	100		10	Shell fragments at 9'			369.6	
GP	100		12	EOB at 12'			52.7	
			14					
			16					

Signature:



Firm:

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SOIL BORING WELL CONSTRUCTION LOG WHEELHOUSE 232269.GPJ 1060-27-00 4/23/15



SOIL BORING LOG

BORING NO. GP-5

Page 1 of 1

Facility/Project Name: Wheelhouse Parcel, 3760 Wheelhouse Road - Outlot 1 232269		Date Drilling Started: 3/30/15		Date Drilling Completed: 3/30/15		Project Number: 1060-27-00	
Drilling Firm: Probe Technologies		Drilling Method: Geoprobe		Surface Elev. (ft) —		TOC Elevation (ft) —	
				Total Depth (ft bgs) 12.0		Borehole Dia. (in) 2.125	
Boring Location: N: 382280.7 E: 2513036.7 NW ¼ of NW ¼ of Sect 36, T 7 R 21 E				Personnel Logged By - A. Heeter Driller - D. Bendorf		Drilling Equipment: Geoprobe	
Civil Town/City/Or Village: Milwaukee		County: Milwaukee		State: WI		Water Level Observations: While Drilling: Date/Time After Drilling: Date/Time	
						Depth (ft bgs) Depth (ft bgs)	

SAMPLE		BLOW COUNTS	DEPTH IN FEET	LITHOLOGIC DESCRIPTION	USCS	GRAPHIC LOG	PID (PPM)	COMMENTS
NUMBER AND TYPE	RECOVERY (%)							
GP	100		2	Light brown, FILL, Sand, Gravel, and (60%) Foundry Sand	F		0.6	No stains or odors
GP	100		4	Dark gray, SAND with some Silt			3.6	Sample: GP-5 (2'-4')
GP	100		6	Wet and possible free product at 5'			196.7	Strong petroleum odor and staining Temporary well installation
GP	100		8	No recovery past 8'	SW-SM		203.6	Sample: GP-5 (6'-8')
GP	0		10				-	
GP	0		12	EOB at 12'			-	
			14					
			16					

Signature:

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SOIL BORING WELL CONSTRUCTION LOG WHEELHOUSE 232269.GPJ 1060-27-00 4/23/15



SOIL BORING LOG

BORING NO. GP-6

Page 1 of 1

Facility/Project Name: Wheelhouse Parcel, 3760 Wheelhouse Road - Outlot 1 232269		Date Drilling Started: 3/30/15	Date Drilling Completed: 3/30/15	Project Number: 1060-27-00	
Drilling Firm: Probe Technologies	Drilling Method: Geoprobe	Surface Elev. (ft) —	TOC Elevation (ft) —	Total Depth (ft bgs) 16.0	Borehole Dia. (in) 2.125
Boring Location: N: 382284.8 E: 2513110.2 NW ¼ of NW ¼ of Sect 36, T 7 R 21 E		Personnel: Logged By - A. Heeter Driller - D. Bendorf		Drilling Equipment: Geoprobe	
Civil Town/City/or Village: Milwaukee	County: Milwaukee	State: WI	Water Level Observations: While Drilling: Date/Time Depth (ft bgs) After Drilling: Date/Time Depth (ft bgs)		

SAMPLE		BLOW COUNTS	DEPTH IN FEET	LITHOLOGIC DESCRIPTION	USCS	GRAPHIC LOG	PID (PPM)	COMMENTS
NUMBER AND TYPE	RECOVERY (%)							
GP	100		0	Light brown, FILL, Sand, Gravel, and (15%) Foundry Sand	FI		0	No stains or odors
GP	100		2				0	
GP	100		4	Light gray, SAND with some Silt and shell fragments	SW-SM		11.3	Sample: GP-6 (4'-6') No stains and slight odor
GP	100		6	Wet at 6'			6.7	
GP	100		8				0.9	
GP	100		10				0.5	Sample: GP-6 (11'-12')
GP	100		12				0	
GP	100		14				0	Sample: GP-6 (14'-16')
GP	100		16	EOB at 16'				

Signature:

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SOIL BORING WELL CONSTRUCTION LOG WHEELHOUSE 232269.GPJ 1060-27-00 4/23/15



SOIL BORING LOG

BORING NO. GP-7

Page 1 of 1

Facility/Project Name: Wheelhouse Parcel, 3760 Wheelhouse Road - Outlot 1 232269		Date Drilling Started: 3/30/15	Date Drilling Completed: 3/30/15	Project Number: 1060-27-00
Drilling Firm: Probe Technologies	Drilling Method: Geoprobe	Surface Elev. (ft) ---	TOC Elevation (ft) ---	Total Depth (ft bgs) 16.0
Boring Location: N: 382290.0 E: 2513197.5 NW ¼ of NW ¼ of Sect 36, T 7 R 21 E		Personnel Logged By - A. Heeter Driller - D. Bendorf		Drilling Equipment: Geoprobe
Civil Town/City/or Village: Milwaukee	County: Milwaukee	State: WI	Water Level Observations: While Drilling: Date/Time After Drilling: Date/Time	
			Depth (ft bgs) Depth (ft bgs)	

SAMPLE		BLOW COUNTS	DEPTH IN FEET	LITHOLOGIC DESCRIPTION	USCS	GRAPHIC LOG	PID (PPM)	COMMENTS
NUMBER AND TYPE	RECOVERY (%)							
GP	100		2	Light brown, FILL with Concrete, Sand, Gravel, and (10%) Foundry Sand	F		0	No stains or odors
GP	100		4				0	
GP	100		6	Light gray, Silty SAND with some Clay, semi-cohesive Wet at 5'			0	Sample: GP-7 (4'-6')
GP	100		8				0.1	No stains or odors
GP	100		10		SC		0	
GP	100		12				0	
GP	100		14				0	
GP	100		16	EOB at 16'			0	Sample: GP-7 (10'-12')
								Sample: GP-7 (14'-16')

Signature:

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SOIL BORING WELL CONSTRUCTION LOG WHEELHOUSE 232269.GPJ 1060-27-00 4/23/15



SOIL BORING LOG

BORING NO. GP-8

Page 1 of 1

Facility/Project Name: Wheelhouse Parcel, 3760 Wheelhouse Road - Outlot 1 232269		Date Drilling Started: 3/31/15	Date Drilling Completed: 3/31/15	Project Number: 1060-27-00	
Drilling Firm: Probe Technologies	Drilling Method: Geoprobe	Surface Elev. (ft) ---	TOC Elevation (ft) ---	Total Depth (ft bgs) 7.0	Borehole Dia. (in) 2.125
Boring Location: N: 382324.0 E: 2512664.7 NW ¼ of NW ¼ of Sect 36, T 7 R 21 E		Personnel Logged By - A. Heeter Driller - D. Bendorf		Drilling Equipment: Geoprobe	
Civil Town/City/or Village: Milwaukee	County: Milwaukee	State: WI	Water Level Observations: While Drilling: Date/Time After Drilling: Date/Time		Depth (ft bgs) Depth (ft bgs)

SAMPLE		BLOW COUNTS	DEPTH IN FEET	LITHOLOGIC DESCRIPTION	USCS	GRAPHIC LOG	PID (PPM)	COMMENTS
NUMBER AND TYPE	RECOVERY (%)							
GP	83			TOPSOIL with Clay	T		0	Sample: GP-8 (4'-6')
GP	83		2	Very dark brown, FILL, Sand, Gravel, and (50%) Foundry Sand, non-cohesive, dry	F		0	
GP	83		4				0	
GP	83		6				0	
GP	100						0	
				EOB at 7' due to refusal on concrete				
			8					
			10					
			12					
			14					
			16					

Signature:

Firm: TRC Environmental

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SOIL BORING WELL CONSTRUCTION LOG WHEELHOUSE 232269.GPJ 1060-27-00 4/23/15



SOIL BORING LOG

BORING NO. GP-9

Page 1 of 1

Facility/Project Name: Wheelhouse Parcel, 3760 Wheelhouse Road - Outlot 1 232269		Date Drilling Started: 3/31/15	Date Drilling Completed: 3/31/15	Project Number: 1060-27-00	
Drilling Firm: Probe Technologies	Drilling Method: Geoprobe	Surface Elev. (ft) —	TOC Elevation (ft) —	Total Depth (ft bgs) 7.0	Borehole Dia. (in) 2.125
Boring Location: N: 382340.1 E: 2512770.1 NW ¼ of NW ¼ of Sect 36, T 7 R 21 E		Personnel Logged By - A. Heeter Driller - D. Bendorf		Drilling Equipment: Geoprobe	
Civil Town/City/or Village: Milwaukee	County: Milwaukee	State: WI	Water Level Observations: While Drilling: Date/Time After Drilling: Date/Time Depth (ft bgs) Depth (ft bgs)		

SAMPLE		BLOW COUNTS	DEPTH IN FEET	LITHOLOGIC DESCRIPTION	USCS	GRAPHIC LOG	PID (PPM)	COMMENTS
NUMBER AND TYPE	RECOVERY (%)							
GP	100		1	Firm, CLAY with Topsoil, cohesive, plastic	CL		<1	
GP	100		2	Dark brown, FILL, Sand, Gravel, and (50%) Foundry Sand	F		<1	Sample: GP-9 (2'-4')
GP	100		4				<1	No stains or odors
GP	100		6				<1	
			7	EOB at 7' due to refusal on concrete				
			8					
			10					
			12					
			14					
			16					

SOIL BORING WELL CONSTRUCTION LOG WHEELHOUSE 232269.GPJ 1060-27-00 4/23/15

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SOIL BORING LOG

BORING NO. GP-10

Page 1 of 1

Facility/Project Name: Wheelhouse Parcel, 3760 Wheelhouse Road - Outlot 1 232269		Date Drilling Started: 3/31/15	Date Drilling Completed: 3/31/15	Project Number: 1060-27-00
Drilling Firm: Probe Technologies	Drilling Method: Geoprobe	Surface Elev. (ft) —	TOC Elevation (ft) —	Total Depth (ft bgs) 16.0
Boring Location: N: 382364.1 E: 2512828.7 NW ¼ of NW ¼ of Sect 36, T 7 R 21 E		Personnel Logged By - A. Heeter Driller - D. Bendorf		Drilling Equipment: Geoprobe
Civil Town/City/or Village: Milwaukee	County: Milwaukee	State: WI	Water Level Observations: While Drilling: Date/Time After Drilling: Date/Time	
				Depth (ft bgs) Depth (ft bgs)

SAMPLE		BLOW COUNTS	DEPTH IN FEET	LITHOLOGIC DESCRIPTION	USCS	GRAPHIC LOG	PID (PPM)	COMMENTS
NUMBER AND TYPE	RECOVERY (%)							
GP	100		0	Light brown, TOPSOIL with Clay, cohesive, plastic	T		<1	No stains or odors
GP	100		2	Dark brown, FILL, Sand, Gravel, and (50%) Foundry Sand			<1	Sample: GP-10 (2'-4')
GP	83		4				<1	
GP	83		6		F		<1	
GP	100		8				101.3	Sample: GP-10 (8'-10')
GP	100		10	Wet and free product at 10'			1278.6	
GP	100		12	Dark gray, soft, Clayey SILT, free product, cohesive, plastic			1074.6	
GP	100		14		ML		1117.8	Sample: GP-10 (14'-16')
GP	100		16	EOB at 16'				

Signature:

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SOIL BORING WELL CONSTRUCTION LOG WHEELHOUSE 232269 GP-1 1060-27-00 4/23/15



SOIL BORING LOG

BORING NO. GP-11

Page 1 of 1

Facility/Project Name: Wheelhouse Parcel, 3760 Wheelhouse Road - Outlot 1 232269		Date Drilling Started: 3/31/15		Date Drilling Completed: 3/31/15		Project Number: 1060-27-00	
Drilling Firm: Probe Technologies		Drilling Method: Geoprobe		Surface Elev. (ft) ---		TOC Elevation (ft) ---	
Boring Location: N: 382365.8 E: 2512934.8 NW 1/4 of NW 1/4 of Sect 36, T 7 R 21 E		Personnel Logged By - A. Heeter Driller - D. Bendorf		Total Depth (ft bgs) 6.5		Borehole Dia. (in) 2.125	
Civil Town/City/for Village: Milwaukee		County: Milwaukee		State: WI		Drilling Equipment: Geoprobe	
Water Level Observations: While Drilling: After Drilling:		Date/Time Date/Time		Depth (ft bgs) Depth (ft bgs)			

SAMPLE		BLOW COUNTS	DEPTH IN FEET	LITHOLOGIC DESCRIPTION	USCS	GRAPHIC LOG	PID (PPM)	COMMENTS
NUMBER AND TYPE	RECOVERY (%)							
GP	100		0	TOPSOIL with Clay, cohesive, plastic, dry			<1	No stains or odors
GP	100		2		T		<1	
GP	50		4				<1	Sample: GP-11 (4'-6')
GP	100		6	Brick, Fill and CONCRETE, Gravel, and (10%) Foundry Sand	CA		<1	
			6.5	EOB at 6.5' due to refusal on concrete			<1	
			8					
			10					
			12					
			14					
			16					

Signature:

Firm:

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SOIL BORING WELL CONSTRUCTION LOG WHEELHOUSE 232269.GPJ 1060-27-00 4/23/15



SOIL BORING LOG

BORING NO. GP-12

Page 1 of 1

Facility/Project Name: Wheelhouse Parcel, 3760 Wheelhouse Road - Outlot 1 232269		Date Drilling Started: 3/31/15	Date Drilling Completed: 3/31/15	Project Number: 1060-27-00	
Drilling Firm: Probe Technologies	Drilling Method: Geoprobe	Surface Elev. (ft) —	TOC Elevation (ft) —	Total Depth (ft bgs) 6.5	Borehole Dia. (in) 2.125
Boring Location: N: 382368.6 E: 2513041.1 NW ¼ of NW ¼ of Sect 36, T 7 R 21 E		Personnel Logged By - A. Heeter Driller - D. Bendorf		Drilling Equipment: Geoprobe	
Civil Town/City/or Village: Milwaukee	County: Milwaukee	State: WI	Water Level Observations: While Drilling: Date/Time After Drilling: Date/Time Depth (ft bgs) Depth (ft bgs)		

SAMPLE		BLOW COUNTS	DEPTH IN FEET	LITHOLOGIC DESCRIPTION	USCS	GRAPHIC LOG	PID (PPM)	COMMENTS
NUMBER AND TYPE	RECOVERY (%)							
GP	100		2	Light brown, firm, TOPSOIL with Clay, cohesive, plastic, semi-moist	t		<1	No stains or odors
GP	100		4	Dark brown, FILL, Sand, Gravel, and (30%) Foundry Sand	F		<1	Sample: GP-12 (4'-6')
GP	100		6	Concrete and brick at 6'			<1	
GP	100		6	EOB at 6.5'			<1	
			8					
			10					
			12					
			14					
			16					

SOIL BORING WELL CONSTRUCTION LOG WHEELHOUSE 232269.GPJ 1060-27-00 4/23/15

Signature:

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SOIL BORING LOG

BORING NO. GP-13

Page 1 of 1

Facility/Project Name: Wheelhouse Parcel, 3760 Wheelhouse Road - Outlot 1 232269		Date Drilling Started: 3/31/15	Date Drilling Completed: 3/31/15	Project Number: 1060-27-00	
Drilling Firm: Probe Technologies	Drilling Method: Geoprobe	Surface Elev. (ft) ---	TOC Elevation (ft) ---	Total Depth (ft bgs) 7.0	Borehole Dia. (in) 2.125
Boring Location: N: 382368.7 E: 2513174.5 NW ¼ of NW ¼ of Sect 36, T 7 R 21 E		Personnel Logged By - A. Heeter Driller - D. Bendorf		Drilling Equipment: Geoprobe	
Civil Town/City/or Village: Milwaukee	County: Milwaukee	State: WI	Water Level Observations: While Drilling: Date/Time After Drilling: Date/Time Depth (ft bgs) Depth (ft bgs)		

SAMPLE		BLOW COUNTS	DEPTH IN FEET	LITHOLOGIC DESCRIPTION	USCS	GRAPHIC LOG	PID (PPM)	COMMENTS
NUMBER AND TYPE	RECOVERY (%)							
GP	100		2	Light brown, firm, TOPSOIL with Clay, cohesive, platy	T		<1	No stains or odors
GP	100		4	Very dark brown, FILL, Sand, Gravel, some Concrete, and (60%) Foundry Sand, semi-moist	F		<1	Sample: GP-13 (2'-4')
GP	100		6				<1	
GP	100		7	EOB at 7' due to refusal on concrete			<1	
			8					
			10					
			12					
			14					
			16					

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SOIL BORING WELL CONSTRUCTION LOG WHEELHOUSE 232269.GPJ 1060-27-00 4/23/15



SOIL BORING LOG

BORING NO. GP-14

Page 1 of 1

Facility/Project Name: Wheelhouse Parcel, 3760 Wheelhouse Road - Outlot 1 232269		Date Drilling Started: 3/31/15	Date Drilling Completed: 3/31/15	Project Number: 1060-27-00	
Drilling Firm: Probe Technologies	Drilling Method: Geoprobe	Surface Elev. (ft) —	TOC Elevation (ft) —	Total Depth (ft bgs) 16.0	Borehole Dia. (in) 2.125
Boring Location: N: 382410.5 E: 2512622.9 NW ¼ of NW ¼ of Sect 36, T 7 R 21 E		Personnel Logged By - A. Heeter Driller - D. Bendorf		Drilling Equipment: Geoprobe	
Civil Town/City/or Village: Milwaukee	County: Milwaukee	State: WI	Water Level Observations: While Drilling: Date/Time After Drilling: Date/Time Depth (ft bgs) Depth (ft bgs)		

SAMPLE		BLOW COUNTS	DEPTH IN FEET	LITHOLOGIC DESCRIPTION	USCS	GRAPHIC LOG	PID (PPM)	COMMENTS
NUMBER AND TYPE	RECOVERY (%)							
GP	100		2	Dark brown, FILL and (80%) Foundry Sand with some slag	F		<1	Sample: GP-14 (2'-4')
GP	100		4				1.3	
GP	100		6	Dark brown, CLAY with some Silt, cohesive, plastic, moist	CL		<1	Temporary well installation
GP	100		8				<1	
GP	100		10				<1	Sample: GP-14 (8'-10')
GP	100		12	Light brown, GRAVEL, wet	GW		<1	
GP	0		14	No recovery from 12'-16'				
GP	0		16	EOB at 16'				

Signature:

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SOIL BORING WELL CONSTRUCTION LOG WHEELHOUSE 232269.GPJ 1060-27-00 4/23/15



SOIL BORING LOG

BORING NO. GP-15

Page 1 of 1

Facility/Project Name: Wheelhouse Parcel, 3760 Wheelhouse Road - Outlot 1 232269		Date Drilling Started: 3/31/15	Date Drilling Completed: 3/31/15	Project Number: 1060-27-00	
Drilling Firm: Probe Technologies	Drilling Method: Geoprobe	Surface Elev. (ft) —	TOC Elevation (ft) —	Total Depth (ft bgs) 16.0	Borehole Dia. (in) 2.125
Boring Location: N: 382417.6 E: 2512704.5 NW ¼ of NW ¼ of Sect 36, T 7 R 21 E		Personnel Logged By - A. Heeter Driller - D. Bendorf		Drilling Equipment: Geoprobe	
Civil Town/City/or Village: Milwaukee	County: Milwaukee	State: WI	Water Level Observations: While Drilling: Date/Time After Drilling: Date/Time Depth (ft bgs) Depth (ft bgs)		

SAMPLE		BLOW COUNTS	DEPTH IN FEET	LITHOLOGIC DESCRIPTION	USCS	GRAPHIC LOG	PID (PPM)	COMMENTS
NUMBER AND TYPE	RECOVERY (%)							
GP	100		2	Dark brown, FILL, Sand, Gravel, and (75%) Foundry Sand, dry	F		1.1	No stains or odors
GP	100		4				3.6	
GP	100		6	GRAVEL, wet			5.7	Sample: GP-15 (4'-6')
GP	100		8				2.1	No stains or odors
GP	100		10		GW		1.3	Temporary well installation
GP	100		12				4	
GP	83		14				60.7	
GP	83		16	Light gray, SILT, non-cohesive, wet	ML		96.2	Sample: GP-15 (8'-10')
				EOB at 16'				Sample: GP-15 (14'-16')

Signature:

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SOIL BORING WELL CONSTRUCTION LOG WHEELHOUSE 232269.GPJ 1060-27-00 4/23/15

Well / Drillhole / Borehole Filling & Sealing

Form 3300-005 (R 8/07)

Page 1 of 2

Notice: Completion of this report is required by chs. 160, 281, 283, 289, 291-293, 295, and 299, Wis. Stats., and ch. NR 141, Wis. Adm. Code. In accordance with chs. 281, 289, 291-293, 295, and 299, Wis. Stats., failure to file this form may result in a forfeiture of between \$10-25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. Return form to the appropriate DNR office and bureau. See instructions on reverse for more information.

Route to:

☐ Drinking Water ☐ Watershed/Wastewater ☐ Waste Management ☒ Remediation/Redevelopment ☐ Other: _____

1. Well Location Information

County MILWAUKEE	WI Unique Well # of Removed Well _____	Hicap # GP-1
Latitude / Longitude (Degrees and Minutes) 43° 01' 50.0" N 87° 57' 53.0" W		Method Code (see instructions) _____
1/4 1/4 NW 1/4 NW or Gov't Lot #	Section 36	Township 7 N
Well Street Address 3760 WHEELHOUSE ROAD		Range 21 E
Well City, Village or Town MILWAUKEE		Well ZIP Code _____
Subdivision Name _____		Lot # _____

2. Facility / Owner Information

Facility Name Former CMC Shops Wheelhouse Parcel		
Facility ID (FID or PWS) _____		
License/Permit/Monitoring # _____		
Original Well Owner _____		
Present Well Owner City of Milwaukee		
Mailing Address of Present Owner 809 N. Broadway #1		
City of Present Owner Milwaukee	State WI	ZIP Code 53202

Reason For Removal From Service _____ WI Unique Well # of Replacement Well _____

3. Well / Drillhole / Borehole Information

☐ Monitoring Well ☐ Water Well ☒ Borehole / Drillhole	Original Construction Date (mm/dd/yyyy) 3/30/15 If a Well Construction Report is available, please attach.
Construction Type: ☐ Drilled ☐ Driven (Sandpoint) ☐ Dug ☒ Other (specify): DIRECT PUSH	

Formation Type:
☒ Unconsolidated Formation ☐ Bedrock

Total Well Depth From Ground Surface (ft.) **16** Casing Diameter (in.) **2.25**
Lower Drillhole Diameter (in.) _____ Casing Depth (ft.) _____

Was well annular space grouted? ☐ Yes ☐ No ☐ Unknown

If yes, to what depth (feet)? _____ Depth to Water (feet) _____

4. Pump, Liner, Screen, Casing & Sealing Material

Pump and piping removed?	☐ Yes ☐ No ☒ N/A
Liner(s) removed?	☐ Yes ☐ No ☒ N/A
Screen removed?	☐ Yes ☐ No ☒ N/A
Casing left in place?	☐ Yes ☐ No ☒ N/A
Was casing cut off below surface?	☐ Yes ☐ No ☒ N/A
Did sealing material rise to surface?	☒ Yes ☐ No ☐ N/A
Did material settle after 24 hours?	☐ Yes ☒ No ☐ N/A
If yes, was hole retopped?	☐ Yes ☐ No ☒ N/A
If bentonite chips were used, were they hydrated with water from a known safe source?	☒ Yes ☐ No ☐ N/A

Required Method of Placing Sealing Material

☐ Conductor Pipe-Gravity ☐ Conductor Pipe-Pumped
☒ Screened & Poured (Bentonite Chips) ☐ Other (Explain): _____

Sealing Materials

☐ Neat Cement Grout ☐ Clay-Sand Slurry (11 lb./gal. wt.)
☐ Sand-Cement (Concrete) Grout ☐ Bentonite-Sand Slurry " "
☐ Concrete ☒ Bentonite Chips

For Monitoring Wells and Monitoring Well Boreholes Only:

☐ Bentonite Chips ☐ Bentonite - Cement Grout
☐ Granular Bentonite ☐ Bentonite - Sand Slurry

5. Material Used To Fill Well / Drillhole

BENTONITE CHIPS	From (ft.) Surface	To (ft.) 16	No. Yards, Sacks or Volume (circle one) 3/4	Mix Ratio or Mud Weight _____
------------------------	------------------------------	-----------------------	---	----------------------------------

6. Comments

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing PROBE TECHNOLOGIES	License # _____	Date of Filling & Sealing (mm/dd/yyyy) 3/30/15	DNR Use Only	
Street or Route W1225 SOUTH SHORE DR	Telephone Number (262) 495-2319	Comments _____	Date Received _____	Noted By _____
City PALMYRA	State WI	ZIP Code 53156	Signature of Person Doing Work <i>[Signature]</i>	Date Signed 4/17/18

Well / Drillhole / Borehole Filling & Sealing

Form 3300-005 (R 8/07)

Page 1 of 2

Notice: Completion of this report is required by chs. 160, 281, 283, 289, 291-293, 295, and 299, Wis. Stats., and ch. NR 141, Wis. Adm. Code. In accordance with chs. 281, 289, 291-293, 295, and 299, Wis. Stats., failure to file this form may result in a forfeiture of between \$10-25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. Return form to the appropriate DNR office and bureau. See instructions on reverse for more information.

Route to:

☐ Drinking Water ☐ Watershed/Wastewater ☐ Waste Management ☐ Remediation/Redevelopment ☐ Other: _____

1. Well Location Information

County MILWAUKEE WI Unique Well # of Removed Well _____ Hicap # 68-2
Latitude / Longitude (Degrees and Minutes) 43° 01' 50.2" N Method Code (see instructions) _____
87° 57' 51.9" W
1/4 NW 1/4 NW Section 36 Township 7 N Range 21 ☒ E ☐ W
or Gov't Lot # _____

Well Street Address 3760 WHEELHOUSE ROAD
Well City, Village or Town MILWAUKEE Well ZIP Code _____
Subdivision Name _____ Lot # _____

Reason For Removal From Service _____ WI Unique Well # of Replacement Well _____

3. Well / Drillhole / Borehole Information

☐ Monitoring Well ☐ Water Well ☒ Borehole / Drillhole
Original Construction Date (mm/dd/yyyy) 3/30/2015
If a Well Construction Report is available, please attach. _____

Construction Type:

☐ Drilled ☐ Driven (Sandpoint) ☐ Dug
☒ Other (specify): DIRECT PUSH

Formation Type:

☒ Unconsolidated Formation ☐ Bedrock

Total Well Depth From Ground Surface (ft.) 16 Casing Diameter (in.) 2.25

Lower Drillhole Diameter (in.) _____ Casing Depth (ft.) _____

Was well annular space grouted? ☐ Yes ☐ No ☐ Unknown

If yes, to what depth (feet)? _____ Depth to Water (feet) _____

2. Facility / Owner Information

Facility Name Former CMC Shops Wheelhouse Parcel

Facility ID (FID or PWS) _____

License/Permit/Monitoring # _____

Original Well Owner _____

Present Well Owner CITY of Milwaukee

Mailing Address of Present Owner 809 W. Broadway #1

City of Present Owner Milwaukee State WI ZIP Code 53202

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing			License #		Date of Filling & Sealing (mm/dd/yyyy)		DNR Use Only	
Street or Route			Telephone Number		Comments		Date Received	
<u>PROBE TECHNOLOGIES</u>			<u>3/30/15</u>		<u>3/30/15</u>		<u>4/17/18</u>	
<u>1225 SOUTH SHORE DR</u>			<u>(202) 445-2319</u>		<u></u>		<u></u>	
City <u>PALMIRA</u>			State <u>WI</u> ZIP Code <u>53156</u>		Signature of Person Doing Work <u>[Signature]</u>		Date Signed <u>4/17/18</u>	

Well / Drillhole / Borehole Filling & Sealing

Form 3300-005 (R 8/07)

Page 1 of 2

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Route to:

☐ Drinking Water ☐ Watershed/Wastewater ☐ Waste Management ☐ Remediation/Redevelopment ☐ Other: _____

1. Well Location Information

County MILWAUKEE	WI Unique Well # of Removed Well _____	Hicap # 61-3
Latitude / Longitude (Degrees and Minutes) Method Code (see instructions) 43° 01' 50.2" N 87° 57' 50.3" W		
1/4 1/4 NW 1/4 NW or Gov't Lot #	Section 36	Township 7 N
Range 21	☒ E ☐ W	
Well Street Address 3760 WHEELHOUSE ROAD		
Well City, Village or Town MILWAUKEE		Well ZIP Code _____
Subdivision Name _____		Lot # _____

2. Facility / Owner Information

Facility Name Former CMC Shops Wheelhouse Parcel		
Facility ID (FID or PWS) _____		
License/Permit/Monitoring # _____		
Original Well Owner _____		
Present Well Owner CITY of Milwaukee		
Mailing Address of Present Owner 809 N. Broadway #1		
City of Present Owner Milwaukee	State WI	ZIP Code 53202

Reason For Removal From Service WI Unique Well # of Replacement Well

3. Well / Drillhole / Borehole Information

☐ Monitoring Well ☐ Water Well ☒ Borehole / Drillhole	Original Construction Date (mm/dd/yyyy) 3/30/2015 If a Well Construction Report is available, please attach.
Construction Type: ☐ Drilled ☐ Driven (Sandpoint) ☐ Dug ☒ Other (specify): DIRECT PUSH	

Formation Type:

☒ Unconsolidated Formation ☐ Bedrock	
Total Well Depth From Ground Surface (ft.) 12	Casing Diameter (in.) 2.25
Lower Drillhole Diameter (in.) _____	Casing Depth (ft.) _____
Was well annular space grouted? ☐ Yes ☐ No ☐ Unknown	
If yes, to what depth (feet)? _____	Depth to Water (feet) _____

4. Pump, Liner, Screen, Casing & Sealing Material

Pump and piping removed?	☐ Yes ☐ No ☒ N/A
Liner(s) removed?	☐ Yes ☐ No ☒ N/A
Screen removed?	☐ Yes ☐ No ☒ N/A
Casing left in place?	☐ Yes ☐ No ☒ N/A
Was casing cut off below surface?	☐ Yes ☐ No ☒ N/A
Did sealing material rise to surface?	☒ Yes ☐ No ☐ N/A
Did material settle after 24 hours?	☐ Yes ☒ No ☐ N/A
If yes, was hole retopped?	☐ Yes ☐ No ☒ N/A
If bentonite chips were used, were they hydrated with water from a known safe source?	☒ Yes ☐ No ☐ N/A

Required Method of Placing Sealing Material

☐ Conductor Pipe-Gravity ☐ Conductor Pipe-Pumped
☒ Screened & Poured (Bentonite Chips) ☐ Other (Explain): _____

Sealing Materials

☐ Neat Cement Grout ☐ Clay-Sand Slurry (11 lb./gal. wt.)
☐ Sand-Cement (Concrete) Grout ☐ Bentonite-Sand Slurry " "
☐ Concrete ☒ Bentonite Chips

For Monitoring Wells and Monitoring Well Boreholes Only:

☐ Bentonite Chips ☐ Bentonite - Cement Grout
☐ Granular Bentonite ☐ Bentonite - Sand Slurry

5. Material Used To Fill Well / Drillhole

From (ft.)	To (ft.)	No. Yards, Sacks or Volume (circle one)	Mix Ratio or Mud Weight
Surface	12	12	

6. Comments

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing PROBE TECHNOLOGIES		License # _____	Date of Filling & Sealing (mm/dd/yyyy) 3/30/15	DNR Use Only	
Street or Route 1225 SOUTH SHORE DR		Telephone Number (262) 495-2319		Date Received _____	Noted By _____
City PALMYRA	State WI	ZIP Code 53156	Signature of Person Doing Work <i>[Signature]</i>	Date Signed 4/17/18	

Well / Drillhole / Borehole Filling & Sealing

Form 3300-005 (R 8/07)

Page 1 of 2

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Route to:

☐ Drinking Water ☐ Watershed/Wastewater ☐ Waste Management ☐ Remediation/Redevelopment ☐ Other: _____

1. Well Location Information

County MILWAUKEE	WI Unique Well # of Removed Well _____	Hicap # 68-4
Latitude / Longitude (Degrees and Minutes) 43° 01' 50.2" N 87° 57' 48.8" W		Method Code (see instructions) _____
1/4 or Gov't Lot # NW 1/4 NW	Section 36	Township 7 N
Well Street Address 3760 WHEELHOUSE ROAD	Range 21 E	Well ZIP Code WI
Well City, Village or Town MILWAUKEE	Subdivision Name _____	Lot # _____

2. Facility / Owner Information

Facility Name Former CMC Shops Wheelhouse Parcel
Facility ID (FID or PWS) _____
License/Permit/Monitoring # _____
Original Well Owner _____
Present Well Owner City of Milwaukee
Mailing Address of Present Owner 809 N. Broadway #1
City of Present Owner Milwaukee
State WI
ZIP Code _____

Reason For Removal From Service _____ WI Unique Well # of Replacement Well _____

3. Well / Drillhole / Borehole Information

☐ Monitoring Well ☐ Water Well ☒ Borehole / Drillhole	Original Construction Date (mm/dd/yyyy) 3/30/2015 If a Well Construction Report is available, please attach.
Construction Type: ☐ Drilled ☐ Driven (Sandpoint) ☐ Dug ☒ Other (specify): DIRECT PUSH	

Formation Type: ☒ Unconsolidated Formation ☐ Bedrock	
Total Well Depth From Ground Surface (ft.) 12	Casing Diameter (in.) 2.25
Lower Drillhole Diameter (in.) _____	Casing Depth (ft.) _____
Was well annular space grouted? ☐ Yes ☐ No ☐ Unknown	
If yes, to what depth (feet)? _____	Depth to Water (feet) _____

4. Pump, Liner, Screen, Casing & Sealing Material

Pump and piping removed?	☐ Yes ☐ No ☒ N/A
Liner(s) removed?	☐ Yes ☐ No ☒ N/A
Screen removed?	☐ Yes ☐ No ☒ N/A
Casing left in place?	☐ Yes ☐ No ☒ N/A
Was casing cut off below surface?	☐ Yes ☐ No ☒ N/A
Did sealing material rise to surface?	☒ Yes ☐ No ☐ N/A
Did material settle after 24 hours?	☐ Yes ☒ No ☐ N/A
If yes, was hole retopped?	☐ Yes ☐ No ☒ N/A
If bentonite chips were used, were they hydrated with water from a known safe source?	☒ Yes ☐ No ☐ N/A

Required Method of Placing Sealing Material

☐ Conductor Pipe-Gravity	☐ Conductor Pipe-Pumped
☒ Screened & Poured (Bentonite Chips)	☐ Other (Explain): _____

Sealing Materials

☐ Neat Cement Grout	☐ Clay-Sand Slurry (11 lb./gal. wt.)
☐ Sand-Cement (Concrete) Grout	☐ Bentonite-Sand Slurry "
☐ Concrete	☒ Bentonite Chips

For Monitoring Wells and Monitoring Well Boreholes Only:

☐ Bentonite Chips	☐ Bentonite - Cement Grout
☐ Granular Bentonite	☐ Bentonite - Sand Slurry

5. Material Used To Fill Well / Drillhole

From (ft.)	To (ft.)	No. Yards, Bags or Volume (circle one)	Mix Ratio or Mud Weight
Surface	12		

6. Comments

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing PROBE TECHNOLOGIES	License # _____	Date of Filling & Sealing (mm/dd/yyyy) 3/30/15	DNR Use Only	
Street or Route W1225 SOUTH SHORE DR	Telephone Number (262) 495-2319	Comments _____	Date Received _____	Noted By _____
City PALMYRA	State WI	ZIP Code 53156	Signature of Person Doing Work <i>[Signature]</i>	Date Signed 4/17/18

Well / Drillhole / Borehole Filling & Sealing

Form 3300-005 (R 8/07)

Page 1 of 2

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Route to:

☐ Drinking Water ☐ Watershed/Wastewater ☐ Waste Management ☐ Remediation/Redevelopment ☐ Other: _____

1. Well Location Information

County MILWAUKEE WI Unique Well # of Removed Well _____ Hicap # 68-5

Latitude / Longitude (Degrees and Minutes) Method Code (see instructions)
43° 01' 50.2" N
87° 57' 47.5" W

1/4 NW 1/4 NW Section 36 Township 7 N Range 21 E
or Gov't Lot # _____

Well Street Address
3760 WHEELHOUSE ROAD

Well City, Village or Town MILWAUKEE Well ZIP Code _____

Subdivision Name _____ Lot # _____

Reason For Removal From Service _____ WI Unique Well # of Replacement Well _____

3. Well / Drillhole / Borehole Information

☐ Monitoring Well ☐ Water Well ☒ Borehole / Drillhole
Original Construction Date (mm/dd/yyyy) 3/30/2015
If a Well Construction Report is available, please attach.

Construction Type:
☐ Drilled ☐ Driven (Sandpoint) ☐ Dug
☒ Other (specify): DIRECT PUSH

Formation Type:
☒ Unconsolidated Formation ☐ Bedrock

Total Well Depth From Ground Surface (ft.) 12 Casing Diameter (in.) 2.25

Lower Drillhole Diameter (in.) _____ Casing Depth (ft.) _____

Was well annular space grouted? ☐ Yes ☐ No ☐ Unknown

If yes, to what depth (feet)? _____ Depth to Water (feet) _____

5. Material Used To Fill Well / Drillhole

BENTONITE CHIPS

2. Facility / Owner Information

Facility Name
Former CMC Shops Wheelhouse Parcel

Facility ID (FID or PWS) _____

License/Permit/Monitoring # _____

Original Well Owner _____

Present Well Owner
City of Milwaukee

Mailing Address of Present Owner
809 N. Broadway #1

City of Present Owner Milwaukee State WI ZIP Code 53202

4. Pump, Liner, Screen, Casing & Sealing Material

Pump and piping removed? ☐ Yes ☐ No ☒ N/A
Liner(s) removed? ☐ Yes ☐ No ☒ N/A
Screen removed? ☐ Yes ☐ No ☒ N/A
Casing left in place? ☐ Yes ☐ No ☒ N/A
Was casing cut off below surface? ☐ Yes ☐ No ☒ N/A
Did sealing material rise to surface? ☒ Yes ☐ No ☐ N/A
Did material settle after 24 hours? ☐ Yes ☒ No ☐ N/A
If yes, was hole retopped? ☐ Yes ☐ No ☒ N/A
If bentonite chips were used, were they hydrated with water from a known safe source? ☒ Yes ☐ No ☐ N/A

Required Method of Placing Sealing Material
☐ Conductor Pipe-Gravity ☐ Conductor Pipe-Pumped
☒ Screened & Poured (Bentonite Chips) ☐ Other (Explain): _____

Sealing Materials
☐ Neat Cement Grout ☐ Clay-Sand Slurry (11 lb./gal. wt.)
☐ Sand-Cement (Concrete) Grout ☐ Bentonite-Sand Slurry " "
☐ Concrete ☒ Bentonite Chips

For Monitoring Wells and Monitoring Well Boreholes Only:
☐ Bentonite Chips ☐ Bentonite - Cement Grout
☐ Granular Bentonite ☐ Bentonite - Sand Slurry

From (ft.)	To (ft.)	No. Yards, Sacks or Volume (circle one)	Mix Ratio or Mud Weight
Surface	<u>12</u>		

6. Comments

7. Supervision of Work

Supervision of Work				DNR Use Only	
Name of Person or Firm Doing Filling & Sealing <u>PROBE TECHNOLOGIES</u>	License #	Date of Filling & Sealing (mm/dd/yyyy) <u>3/30/15</u>	Date Received	Noted By	
Street or Route <u>W1225 SOUTH SHORE DR</u>	Telephone Number <u>(262) 495-2319</u>	Comments			
City <u>PALMYRA</u>	State <u>WI</u>	ZIP Code <u>53156</u>	Signature of Person Doing Work <u>[Signature]</u>	Date Signed <u>4/17/18</u>	

Well / Drillhole / Borehole Filling & Sealing

Form 3300-005 (R 8/07)

Page 1 of 2

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Route to:

☐ Drinking Water ☐ Watershed/Wastewater ☐ Waste Management ☐ Remediation/Redevelopment ☐ Other: _____

1. Well Location Information

County MILWAUKEE WI Unique Well # of Removed Well _____ Hicap # GP-6

Latitude / Longitude (Degrees and Minutes) 43° 21' 50.2" N 87° 57' 46.6" W Method Code (see instructions) _____

1/4 NW 1/4 NW Section 36 Township 7 N Range 21 ☒ E ☐ W
or Gov't Lot # _____

Well Street Address 3760 WHEELHOUSE ROAD

Well City, Village or Town MILWAUKEE Well ZIP Code _____

Subdivision Name _____ Lot # _____

2. Facility / Owner Information

Facility Name Former CMC Shops Wheelhouse Parcel

Facility ID (FID or PWS) _____

License/Permit/Monitoring # _____

Original Well Owner _____

Present Well Owner CITY of Milwaukee

Mailing Address of Present Owner 809 N. Broadway #1

City of Present Owner Milwaukee State WI ZIP Code 53202

Reason For Removal From Service _____ WI Unique Well # of Replacement Well _____

3. Well / Drillhole / Borehole Information

☐ Monitoring Well ☐ Water Well ☒ Borehole / Drillhole
Original Construction Date (mm/dd/yyyy) 3/30/2015
If a Well Construction Report is available, please attach. _____

Construction Type:
☐ Drilled ☐ Driven (Sandpoint) ☐ Dug
☒ Other (specify): DIRECT PUSH

Formation Type:
☒ Unconsolidated Formation ☐ Bedrock

Total Well Depth From Ground Surface (ft.) 16 Casing Diameter (in.) 2.25

Lower Drillhole Diameter (in.) _____ Casing Depth (ft.) _____

Was well annular space grouted? ☐ Yes ☐ No ☐ Unknown

If yes, to what depth (feet)? _____ Depth to Water (feet) _____

4. Pump, Liner, Screen, Casing & Sealing Material

Pump and piping removed? ☐ Yes ☐ No ☒ N/A
Liner(s) removed? ☐ Yes ☐ No ☒ N/A
Screen removed? ☐ Yes ☐ No ☒ N/A
Casing left in place? ☐ Yes ☐ No ☒ N/A
Was casing cut off below surface? ☐ Yes ☐ No ☒ N/A
Did sealing material rise to surface? ☒ Yes ☐ No ☐ N/A
Did material settle after 24 hours? ☐ Yes ☒ No ☐ N/A
If yes, was hole retopped? ☐ Yes ☐ No ☒ N/A
If bentonite chips were used, were they hydrated with water from a known safe source? ☒ Yes ☐ No ☐ N/A

Required Method of Placing Sealing Material
☐ Conductor Pipe-Gravity ☐ Conductor Pipe-Pumped
☒ Screened & Poured (Bentonite Chips) ☐ Other (Explain): _____

Sealing Materials
☐ Neat Cement Grout ☐ Clay-Sand Slurry (11 lb./gal. wt.)
☐ Sand-Cement (Concrete) Grout ☐ Bentonite-Sand Slurry " "
☐ Concrete ☒ Bentonite Chips

For Monitoring Wells and Monitoring Well Boreholes Only:
☐ Bentonite Chips ☐ Bentonite - Cement Grout
☐ Granular Bentonite ☐ Bentonite - Sand Slurry

5. Material Used To Fill Well / Drillhole

From (ft.)	To (ft.)	No. Yards, Sacks/Sealant or Volume (circle one)	Mix Ratio or Mud Weight
Surface	<u>16</u>	<u>3/4</u>	

6. Comments

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing				DNR Use Only	
License #	Date of Filling & Sealing (mm/dd/yyyy)	Date Received	Noted By		
<u>PROBE TECHNOLOGIES</u>	<u>3/30/15</u>				
Street or Route <u>W1225 SOUTH SHORE DR</u>		Telephone Number <u>(262) 495-2319</u>		Comments	
City <u>PALMIRA</u>	State <u>WI</u>	ZIP Code <u>53156</u>	Signature of Person Doing Work <u>[Signature]</u>	Date Signed <u>4/17/18</u>	

Well / Drillhole / Borehole Filling & Sealing

Form 3300-005 (R 8/07)

Page 1 of 2

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Route to:

☐ Drinking Water ☐ Watershed/Wastewater ☐ Waste Management ☐ Remediation/Redevelopment ☐ Other: _____

1. Well Location Information

County MILWAUKEE WI Unique Well # of Removed Well _____ Hicap # 61-7

Latitude / Longitude (Degrees and Minutes) Method Code (see instructions)

43° 01' 50.3" N
87° 57' 45.4" W

1/4 1/4 NW 1/4 NW Section 36 Township 7 N Range 21 ☒ E ☐ W
or Gov't Lot # _____

Well Street Address
3760 WHEELHOUSE ROAD

Well City, Village or Town MILWAUKEE Well ZIP Code _____

Subdivision Name _____ Lot # _____

Reason For Removal From Service _____ WI Unique Well # of Replacement Well _____

3. Well / Drillhole / Borehole Information

☐ Monitoring Well ☐ Water Well ☒ Borehole / Drillhole
Original Construction Date (mm/dd/yyyy) 3/30/2015
If a Well Construction Report is available, please attach.

Construction Type:
☐ Drilled ☐ Driven (Sandpoint) ☐ Dug
☒ Other (specify): DIRECT PUSH

Formation Type:
☒ Unconsolidated Formation ☐ Bedrock

Total Well Depth From Ground Surface (ft.) 16 Casing Diameter (in.) 2.25

Lower Drillhole Diameter (in.) _____ Casing Depth (ft.) _____

Was well annular space grouted? ☐ Yes ☐ No ☐ Unknown

If yes, to what depth (feet)? _____ Depth to Water (feet) _____

5. Material Used To Fill Well / Drillhole

BENTONITE CHIPS

2. Facility / Owner Information

Facility Name
Former CMC Shops Wheelhouse Parcel

Facility ID (FID or PWS) _____

License/Permit/Monitoring # _____

Original Well Owner _____

Present Well Owner City of Milwaukee

Mailing Address of Present Owner 809 N. Broadway #1

City of Present Owner Milwaukee State WI ZIP Code 53202

4. Pump, Liner, Screen, Casing & Sealing Material

Pump and piping removed? ☐ Yes ☐ No ☒ N/A
Liner(s) removed? ☐ Yes ☐ No ☒ N/A
Screen removed? ☐ Yes ☐ No ☒ N/A
Casing left in place? ☐ Yes ☐ No ☒ N/A
Was casing cut off below surface? ☐ Yes ☐ No ☒ N/A
Did sealing material rise to surface? ☒ Yes ☐ No ☐ N/A
Did material settle after 24 hours? ☐ Yes ☒ No ☐ N/A
If yes, was hole retopped? ☐ Yes ☐ No ☒ N/A
If bentonite chips were used, were they hydrated with water from a known safe source? ☒ Yes ☐ No ☐ N/A

Required Method of Placing Sealing Material
☐ Conductor Pipe-Gravity ☐ Conductor Pipe-Pumped
☒ Screened & Poured (Bentonite Chips) ☐ Other (Explain): _____

Sealing Materials
☐ Neat Cement Grout ☐ Clay-Sand Slurry (11 lb./gal. wt.)
☐ Sand-Cement (Concrete) Grout ☐ Bentonite-Sand Slurry " "
☐ Concrete ☒ Bentonite Chips

For Monitoring Wells and Monitoring Well Boreholes Only:
☐ Bentonite Chips ☐ Bentonite - Cement Grout
☐ Granular Bentonite ☐ Bentonite - Sand Slurry

From (ft.)	To (ft.)	No. Yards, Sacks, Sealant or Volume (circle one)	Mix Ratio or Mud Weight
Surface	<u>16</u>	<u>2/4</u>	

6. Comments

7. Supervision of Work

Supervision of Work				DNR Use Only	
Name of Person or Firm Doing Filling & Sealing	License #	Date of Filling & Sealing (mm/dd/yyyy)	Date Received	Noted By	
<u>PROBE TECHNOLOGIES</u>		<u>3/30/15</u>			
Street or Route <u>W1225 SOUTH SHORE DR</u>		Telephone Number <u>(262) 495-2319</u>		Comments	
City <u>PALMYRA</u>	State <u>WI</u>	ZIP Code <u>53156</u>	Signature of Person Doing Work <u>[Signature]</u>		Date Signed <u>4/17/18</u>

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Route to:

☐ Drinking Water ☐ Watershed/Wastewater ☐ Waste Management ☐ Remediation/Redevelopment ☐ Other:

1. Well Location Information

County MILWAUKEE	WI Unique Well # of Removed Well	Hicap # GP-8
Latitude / Longitude (Degrees and Minutes) 43° 01' 50.8" N 87° 57' 52.5" W		Method Code (see instructions)
1/4 1/4 NW 1/4 NW	Section 36	Township 7 N Range 21 E
or Gov't Lot #		
Well Street Address 3760 WHEELHOUSE ROAD		
Well City, Village or Town MILWAUKEE		Well ZIP Code
Subdivision Name		Lot #
Reason For Removal From Service		WI Unique Well # of Replacement Well

3. Well / Drillhole / Borehole Information

☐ Monitoring Well	Original Construction Date (mm/dd/yyyy) 3/31/2015
☐ Water Well	
☒ Borehole / Drillhole	If a Well Construction Report is available, please attach.
Construction Type:	
☐ Drilled	☐ Driven (Sandpoint)
☒ Other (specify): DIRECT PUSH	☐ Dug
Formation Type:	
☒ Unconsolidated Formation	☐ Bedrock
Total Well Depth From Ground Surface (ft.) 7.5	Casing Diameter (in.) 2.25
Lower Drillhole Diameter (in.)	Casing Depth (ft.)
Was well annular space grouted? ☐ Yes ☐ No ☐ Unknown	
If yes, to what depth (feet)?	Depth to Water (feet)

5. Material Used To Fill Well / Drillhole

BENTONITE CHIPS

2. Facility / Owner Information

Facility Name (Former CMC Shops Wheelhouse Parcel)
Facility ID (FID or PWS)
License/Permit/Monitoring #
Original Well Owner
Present Well Owner CITY of Milwaukee
Mailing Address of Present Owner 809 N. Broadway #1
City of Present Owner Milwaukee
State WI
ZIP Code 53202

4. Pump, Liner, Screen, Casing & Sealing Material

Pump and piping removed?	☐ Yes ☐ No ☒ N/A
Liner(s) removed?	☐ Yes ☐ No ☒ N/A
Screen removed?	☐ Yes ☐ No ☒ N/A
Casing left in place?	☐ Yes ☐ No ☒ N/A
Was casing cut off below surface?	☐ Yes ☐ No ☒ N/A
Did sealing material rise to surface?	☒ Yes ☐ No ☐ N/A
Did material settle after 24 hours?	☐ Yes ☒ No ☐ N/A
If yes, was hole retopped?	☐ Yes ☐ No ☒ N/A
If bentonite chips were used, were they hydrated with water from a known safe source?	☒ Yes ☐ No ☐ N/A
Required Method of Placing Sealing Material	
☐ Conductor Pipe-Gravity	☐ Conductor Pipe-Pumped
☒ Screened & Poured (Bentonite Chips)	☐ Other (Explain):
Sealing Materials	
☐ Neat Cement Grout	☐ Clay-Sand Slurry (11 lb./gal. wt.)
☐ Sand-Cement (Concrete) Grout	☐ Bentonite-Sand Slurry "
☐ Concrete	☒ Bentonite Chips
For Monitoring Wells and Monitoring Well Boreholes Only:	
☐ Bentonite Chips	☐ Bentonite - Cement Grout
☐ Granular Bentonite	☐ Bentonite - Sand Slurry

6. Comments

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing PRCBE TECHNOLOGIES	License #	Date of Filling & Sealing (mm/dd/yyyy) 3/31/15	DNR Use Only	
Street or Route W1225 SOUTH SHORE DR	Telephone Number (262) 495-2319	Comments	Date Received	Noted By
City PALMYRA	State WI	ZIP Code 53156	Signature of Person Doing Work <i>[Signature]</i>	Date Signed 4/17/18

Well / Drillhole / Borehole Filling & Sealing

Form 3300-005 (R 8/07)

Page 1 of 2

Notice: Completion of this report is required by chs. 160, 281, 283, 289, 291-293, 295, and 299, Wis. Stats., and ch. NR 141, Wis. Adm. Code. In accordance with chs. 281, 289, 291-293, 295, and 299, Wis. Stats., failure to file this form may result in a forfeiture of between \$10-25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. Return form to the appropriate DNR office and bureau. See instructions on reverse for more information.

Route to:

☐ Drinking Water ☐ Watershed/Wastewater ☐ Waste Management ☐ Remediation/Redevelopment ☐ Other: _____

1. Well Location Information

County MILWAUKEE WI Unique Well # of Removed Well _____ Hicap # 61-9

Latitude / Longitude (Degrees and Minutes) 43° 01' 50.9" N 87° 57' 51.1" W Method Code (see instructions) _____

1/4 1/4 NW 1/4 NW Section 36 Township 7 N Range 21 ☒ E ☐ W or Gov't Lot # _____

Well Street Address 3760 WHEELHOUSE ROAD

Well City, Village or Town MILWAUKEE Well ZIP Code _____

Subdivision Name _____ Lot # _____

Reason For Removal From Service _____ WI Unique Well # of Replacement Well _____

3. Well / Drillhole / Borehole Information

☐ Monitoring Well ☐ Water Well ☒ Borehole / Drillhole Original Construction Date (mm/dd/yyyy) 3/31/2015 If a Well Construction Report is available, please attach.

Construction Type:

☐ Drilled ☐ Driven (Sandpoint) ☐ Dug ☒ Other (specify): DIRECT PUSH

Formation Type:

☒ Unconsolidated Formation ☐ Bedrock

Total Well Depth From Ground Surface (ft.) 7 Casing Diameter (in.) 2.25

Lower Drillhole Diameter (in.) _____ Casing Depth (ft.) _____

Was well annular space grouted? ☐ Yes ☐ No ☐ Unknown

If yes, to what depth (feet)? _____ Depth to Water (feet) _____

5. Material Used To Fill Well / Drillhole

BENTONITE CHIPS

2. Facility / Owner Information

Facility Name Former CMC Shops Wheelhouse Parcel

Facility ID (FID or PWS) _____

License/Permit/Monitoring # _____

Original Well Owner _____

Present Well Owner City of Milwaukee

Mailing Address of Present Owner 809 N. Broadway #2

City of Present Owner Milwaukee State WI ZIP Code 53202

4. Pump, Liner, Screen, Casing & Sealing Material

Pump and piping removed? ☐ Yes ☐ No ☒ N/A
Liner(s) removed? ☐ Yes ☐ No ☒ N/A
Screen removed? ☐ Yes ☐ No ☒ N/A
Casing left in place? ☐ Yes ☐ No ☒ N/A
Was casing cut off below surface? ☐ Yes ☐ No ☒ N/A
Did sealing material rise to surface? ☒ Yes ☐ No ☐ N/A
Did material settle after 24 hours? ☐ Yes ☒ No ☐ N/A
If yes, was hole retopped? ☐ Yes ☐ No ☒ N/A
If bentonite chips were used, were they hydrated with water from a known safe source? ☒ Yes ☐ No ☐ N/A

Required Method of Placing Sealing Material

☐ Conductor Pipe-Gravity ☐ Conductor Pipe-Pumped
☒ Screened & Poured (Bentonite Chips) ☐ Other (Explain): _____

Sealing Materials

☐ Neat Cement Grout ☐ Clay-Sand Slurry (11 lb./gal. wt.)
☐ Sand-Cement (Concrete) Grout ☐ Bentonite-Sand Slurry " "
☐ Concrete ☒ Bentonite Chips

For Monitoring Wells and Monitoring Well Boreholes Only:

☐ Bentonite Chips ☐ Bentonite - Cement Grout
☐ Granular Bentonite ☐ Bentonite - Sand Slurry

6. Comments

7. Supervision of Work

Supervision of Work				DNR Use Only	
Name of Person or Firm Doing Filling & Sealing	License #	Date of Filling & Sealing (mm/dd/yyyy)	Date Received	Noted By	
<u>PROBE TECHNOLOGIES</u>		<u>3/31/15</u>			
Street or Route	Telephone Number	Comments			
<u>1225 SOUTH SHORE DR</u>	<u>(262) 445-2319</u>				
City	State	ZIP Code	Signature of Person Doing Work	Date Signed	
<u>PALMIRA</u>	<u>WI</u>	<u>53156</u>	<u>[Signature]</u>	<u>4/17/18</u>	

Well / Drillhole / Borehole Filling & Sealing

Form 3300-005 (R 8/07)

Page 1 of 2

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Route to:

☐ Drinking Water ☐ Watershed/Wastewater ☐ Waste Management ☐ Remediation/Redevelopment ☐ Other:

1. Well Location Information

County MILWAUKEE	WI Unique Well # of Removed Well _____	Hicap # GP-10
Latitude / Longitude (Degrees and Minutes) 43° 01' 51.13" N 87° 57' 50.3" W		Method Code (see instructions) _____
1/4 1/4 NN 1/4 NW or Gov't Lot #	Section 36	Township 7 N
Well Street Address 3760 WHEELHOUSE ROAD		Range ☒ E ☐ W
Well City, Village or Town MILWAUKEE		Well ZIP Code _____
Subdivision Name _____		Lot # _____

2. Facility / Owner Information

Facility Name Former CMC Shops Wheelhouse Parcel		
Facility ID (FID or PWS) _____		
License/Permit/Monitoring # _____		
Original Well Owner _____		
Present Well Owner City of Milwaukee		
Mailing Address of Present Owner 809 N. Broadway # 2		
City of Present Owner Milwaukee	State WI	ZIP Code 53202

Reason For Removal From Service WI Unique Well # of Replacement Well

3. Well / Drillhole / Borehole Information

☐ Monitoring Well ☐ Water Well ☒ Borehole / Drillhole	Original Construction Date (mm/dd/yyyy) 3/31/2015 If a Well Construction Report is available, please attach.
Construction Type: ☐ Drilled ☐ Driven (Sandpoint) ☐ Dug ☒ Other (specify): DIRECT PUSH	
Formation Type: ☒ Unconsolidated Formation ☐ Bedrock	
Total Well Depth From Ground Surface (ft.) 116	Casing Diameter (in.) 2.25
Lower Drillhole Diameter (in.) _____	Casing Depth (ft.) _____
Was well annular space grouted? ☐ Yes ☐ No ☐ Unknown	
If yes, to what depth (feet)? _____	Depth to Water (feet) _____

4. Pump, Liner, Screen, Casing & Sealing Material

Pump and piping removed?	☐ Yes ☐ No ☒ N/A
Liner(s) removed?	☐ Yes ☐ No ☒ N/A
Screen removed?	☐ Yes ☐ No ☒ N/A
Casing left in place?	☐ Yes ☐ No ☒ N/A
Was casing cut off below surface?	☐ Yes ☐ No ☒ N/A
Did sealing material rise to surface?	☒ Yes ☐ No ☐ N/A
Did material settle after 24 hours?	☐ Yes ☒ No ☐ N/A
If yes, was hole retopped?	☐ Yes ☐ No ☒ N/A
If bentonite chips were used, were they hydrated with water from a known safe source?	☒ Yes ☐ No ☐ N/A
Required Method of Placing Sealing Material ☐ Conductor Pipe-Gravity ☐ Conductor Pipe-Pumped ☒ Screened & Poured (Bentonite Chips) ☐ Other (Explain): _____	
Sealing Materials ☐ Neat Cement Grout ☐ Clay-Sand Slurry (11 lb./gal. wt.) ☐ Sand-Cement (Concrete) Grout ☐ Bentonite-Sand Slurry " " ☐ Concrete ☒ Bentonite Chips	
For Monitoring Wells and Monitoring Well Boreholes Only: ☐ Bentonite Chips ☐ Bentonite - Cement Grout ☐ Granular Bentonite ☐ Bentonite - Sand Slurry	

5. Material Used To Fill Well / Drillhole

From (ft.) Surface	To (ft.) 116	No. Yards, Bags, Sacks or Volume (circle one) 3/4	Mix Ratio or Mud Weight
BENTONITE CHIPS			

6. Comments

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing PROBE TECHNOLOGIES	License # _____	Date of Filling & Sealing (mm/dd/yyyy) 3/31/15	DNR Use Only	
Street or Route W1225 SOUTH SHORE DR			Date Received	Noted By
City PALMYRA			Telephone Number (202) 495-2319	Comments
State WI			Signature of Person Doing Work <i>[Signature]</i>	Date Signed 4/17/18
ZIP Code 53156				

Well / Drillhole / Borehole Filling & Sealing

Form 3300-005 (R 8/07)

Page 1 of 2

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Route to:

☐ Drinking Water ☐ Watershed/Wastewater ☐ Waste Management ☐ Remediation/Redevelopment ☐ Other: _____

1. Well Location Information

County MILWAUKEE WI Unique Well # of Removed Well _____ Hicap # 6P-11

Latitude / Longitude (Degrees and Minutes) Method Code (see instructions)
43° 01' 51.1" N
87° 57' 48.9" W

1/4 1/4 NW 1/4 NW Section 36 Township 7 N Range 21 E
or Gov't Lot # _____

Well Street Address
3760 WHEELHOUSE ROAD

Well City, Village or Town MILWAUKEE Well ZIP Code _____

Subdivision Name _____ Lot # _____

Reason For Removal From Service _____ WI Unique Well # of Replacement Well _____

3. Well / Drillhole / Borehole Information

☐ Monitoring Well ☐ Water Well ☒ Borehole / Drillhole
Original Construction Date (mm/dd/yyyy) 3/31/2015
If a Well Construction Report is available, please attach.

Construction Type:
☐ Drilled ☐ Driven (Sandpoint) ☐ Dug
☒ Other (specify): DIRECT PUSH

Formation Type:
☒ Unconsolidated Formation ☐ Bedrock

Total Well Depth From Ground Surface (ft.) 6.5 Casing Diameter (in.) 2.25

Lower Drillhole Diameter (in.) _____ Casing Depth (ft.) _____

Was well annular space grouted? ☐ Yes ☐ No ☐ Unknown

If yes, to what depth (feet)? _____ Depth to Water (feet) _____

5. Material Used To Fill Well / Drillhole

BENTONITE CHIPS

2. Facility / Owner Information

Facility Name
Former CMC Shops Wheelhouse Parcel

Facility ID (FID or PWS) _____

License/Permit/Monitoring # _____

Original Well Owner _____

Present Well Owner City of Milwaukee

Mailing Address of Present Owner
809 N. Broadway #1

City of Present Owner Milwaukee State _____ ZIP Code 53202

4. Pump, Liner, Screen, Casing & Sealing Material

Pump and piping removed? ☐ Yes ☐ No ☒ N/A
Liner(s) removed? ☐ Yes ☐ No ☒ N/A
Screen removed? ☐ Yes ☐ No ☒ N/A
Casing left in place? ☐ Yes ☐ No ☒ N/A
Was casing cut off below surface? ☐ Yes ☐ No ☒ N/A
Did sealing material rise to surface? ☒ Yes ☐ No ☐ N/A
Did material settle after 24 hours? ☐ Yes ☒ No ☐ N/A
If yes, was hole retopped? ☐ Yes ☐ No ☒ N/A
If bentonite chips were used, were they hydrated with water from a known safe source? ☒ Yes ☐ No ☐ N/A

Required Method of Placing Sealing Material
☐ Conductor Pipe-Gravity ☐ Conductor Pipe-Pumped
☒ Screened & Poured (Bentonite Chips) ☐ Other (Explain): _____

Sealing Materials
☐ Neat Cement Grout ☐ Clay-Sand Slurry (11 lb./gal. wt.)
☐ Sand-Cement (Concrete) Grout ☐ Bentonite-Sand Slurry " "
☐ Concrete ☒ Bentonite Chips

For Monitoring Wells and Monitoring Well Boreholes Only:
☐ Bentonite Chips ☐ Bentonite - Cement Grout
☐ Granular Bentonite ☐ Bentonite - Sand Slurry

From (ft.)	To (ft.)	No. Yards, Sacks/Sealant or Volume (circle one)	Mix Ratio or Mud Weight
Surface	<u>6.5</u>	<u>14</u>	

6. Comments

7. Supervision of Work

Supervision of Work			DNR Use Only	
Name of Person or Firm Doing Filling & Sealing <u>PROBE TECHNOLOGIES</u>	License # _____	Date of Filling & Sealing (mm/dd/yyyy) <u>3/31/15</u>	Date Received _____	Noted By _____
Street or Route <u>W1225 SOUTH SHORE DR</u>		Telephone Number <u>(262) 445-2319</u>	Comments _____	
City <u>PALMYRA</u>	State <u>WI</u>	ZIP Code <u>53156</u>	Signature of Person Doing Work <u>[Signature]</u>	Date Signed <u>4/17/18</u>

Well / Drillhole / Borehole Filling & Sealing

Form 3300-005 (R 8/07)

Page 1 of 2

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Route to:

☐ Drinking Water ☐ Watershed/Wastewater ☐ Waste Management ☐ Remediation/Redevelopment ☐ Other:

1. Well Location Information

County MILWAUKEE WI Unique Well # of Removed Well _____ Hicap # GR-12

Latitude / Longitude (Degrees and Minutes) 43° 01' 51.1" N
87° 57' 47.5" W Method Code (see instructions) _____

1/4 1/4 NW 1/4 NW Section 36 Township 7 N Range 21 E
or Gov't Lot # _____

Well Street Address 3760 WHEELHOUSE ROAD

Well City, Village or Town MILWAUKEE Well ZIP Code _____

Subdivision Name _____ Lot # _____

Reason For Removal From Service _____ WI Unique Well # of Replacement Well _____

3. Well / Drillhole / Borehole Information

☐ Monitoring Well
☐ Water Well
☒ Borehole / Drillhole

Original Construction Date (mm/dd/yyyy)
3/31/2015

If a Well Construction Report is available, please attach.

Construction Type:

☐ Drilled ☐ Driven (Sandpoint) ☐ Dug
☒ Other (specify): DIRECT PUSH

Formation Type:

☒ Unconsolidated Formation ☐ Bedrock

Total Well Depth From Ground Surface (ft.) 6.5 Casing Diameter (in.) 2.25

Lower Drillhole Diameter (in.) _____ Casing Depth (ft.) _____

Was well annular space grouted? ☐ Yes ☐ No ☐ Unknown

If yes, to what depth (feet)? _____ Depth to Water (feet) _____

2. Facility / Owner Information

Facility Name Former CMC Shops Wheelhouse Parcel

Facility ID (FID or PWS) _____

License/Permit/Monitoring # _____

Original Well Owner _____

Present Well Owner City of Milwaukee

Mailing Address of Present Owner 809 N. Broadway #1

City of Present Owner Milwaukee State WI ZIP Code 53202

4. Pump, Liner, Screen, Casing & Sealing Material

Pump and piping removed? ☐ Yes ☐ No ☒ N/A
Liner(s) removed? ☐ Yes ☐ No ☒ N/A
Screen removed? ☐ Yes ☐ No ☒ N/A
Casing left in place? ☐ Yes ☐ No ☒ N/A
Was casing cut off below surface? ☐ Yes ☐ No ☒ N/A
Did sealing material rise to surface? ☒ Yes ☐ No ☐ N/A
Did material settle after 24 hours? ☐ Yes ☒ No ☐ N/A
If yes, was hole retopped? ☐ Yes ☐ No ☒ N/A
If bentonite chips were used, were they hydrated with water from a known safe source? ☒ Yes ☐ No ☐ N/A

Required Method of Placing Sealing Material

☐ Conductor Pipe-Gravity ☐ Conductor Pipe-Pumped
☒ Screened & Poured (Bentonite Chips) ☐ Other (Explain): _____

Sealing Materials

☐ Neat Cement Grout ☐ Clay-Sand Slurry (11 lb./gal. wt.)
☐ Sand-Cement (Concrete) Grout ☐ Bentonite-Sand Slurry " "
☐ Concrete ☒ Bentonite Chips

For Monitoring Wells and Monitoring Well Boreholes Only:

☐ Bentonite Chips ☐ Bentonite - Cement Grout
☐ Granular Bentonite ☐ Bentonite - Sand Slurry

5. Material Used To Fill Well / Drillhole

From (ft.)	To (ft.)	No. Yards, Sacks, or Volume (circle one)	Mix Ratio or Mud Weight
Surface	<u>6.5</u>	<u>44</u>	

6. Comments

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing			DNR Use Only	
License #	Date of Filling & Sealing (mm/dd/yyyy)	Date Received	Noted By	
<u>PROBE TECHNOLOGIES</u>	<u>3/31/15</u>			
Street or Route <u>W1225 SOUTH SHORE DR</u>		Telephone Number <u>(262) 495-2319</u>	Comments	
City <u>PALMYRA</u>	State <u>WI</u> ZIP Code <u>53156</u>	Signature of Person Doing Work <u>[Signature]</u>	Date Signed <u>4/17/18</u>	

Well / Drillhole / Borehole Filling & Sealing

Form 3300-005 (R 8/07)

Page 1 of 2

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Route to:

☐ Drinking Water ☐ Watershed/Wastewater ☐ Waste Management ☐ Remediation/Redevelopment ☐ Other: _____

1. Well Location Information

County MILWAUKEE WI Unique Well # of Removed Well _____ Hicap # 68' 13

Latitude / Longitude (Degrees and Minutes) 43° 01' 51.1" N Method Code (see instructions) _____
87° 57' 45.7" W

1/4 1/4 NW 1/4 NW Section 36 Township 7 N Range 21 E ☒ E ☐ W
or Gov't Lot # _____

Well Street Address 3760 WHEELHOUSE ROAD

Well City, Village or Town MILWAUKEE Well ZIP Code _____

Subdivision Name _____ Lot # _____

Reason For Removal From Service _____ WI Unique Well # of Replacement Well _____

3. Well / Drillhole / Borehole Information

☐ Monitoring Well ☐ Water Well ☒ Borehole / Drillhole
Original Construction Date (mm/dd/yyyy) 3/31/2015
If a Well Construction Report is available, please attach.

Construction Type:
☐ Drilled ☐ Driven (Sandpoint) ☐ Dug
☒ Other (specify): DIRECT PUSH

Formation Type:
☒ Unconsolidated Formation ☐ Bedrock

Total Well Depth From Ground Surface (ft.) 9 Casing Diameter (in.) 2.25

Lower Drillhole Diameter (in.) _____ Casing Depth (ft.) _____

Was well annular space grouted? ☐ Yes ☐ No ☐ Unknown

If yes, to what depth (feet)? _____ Depth to Water (feet) _____

5. Material Used To Fill Well / Drillhole

BENTONITE CHIPS

2. Facility / Owner Information

Facility Name Former CMC Shops Wheelhouse Parcel

Facility ID (FID or PWS) _____

License/Permit/Monitoring # _____

Original Well Owner _____

Present Well Owner City of Milwaukee

Mailing Address of Present Owner 809 N. Broadway #1

City of Present Owner Milwaukee State WI ZIP Code 53202

4. Pump, Liner, Screen, Casing & Sealing Material

Pump and piping removed? ☐ Yes ☐ No ☒ N/A

Liner(s) removed? ☐ Yes ☐ No ☒ N/A

Screen removed? ☐ Yes ☐ No ☒ N/A

Casing left in place? ☐ Yes ☐ No ☒ N/A

Was casing cut off below surface? ☐ Yes ☐ No ☒ N/A

Did sealing material rise to surface? ☒ Yes ☐ No ☐ N/A

Did material settle after 24 hours? ☐ Yes ☒ No ☐ N/A

If yes, was hole retopped? ☐ Yes ☐ No ☒ N/A

If bentonite chips were used, were they hydrated with water from a known safe source? ☒ Yes ☐ No ☐ N/A

Required Method of Placing Sealing Material

☐ Conductor Pipe-Gravity ☐ Conductor Pipe-Pumped

☒ Screened & Poured (Bentonite Chips) ☐ Other (Explain): _____

Sealing Materials

☐ Neat Cement Grout ☐ Clay-Sand Slurry (11 lb./gal. wt.)

☐ Sand-Cement (Concrete) Grout ☐ Bentonite-Sand Slurry " "

☐ Concrete ☒ Bentonite Chips

For Monitoring Wells and Monitoring Well Boreholes Only:

☐ Bentonite Chips ☐ Bentonite - Cement Grout

☐ Granular Bentonite ☐ Bentonite - Sand Slurry

From (ft.) To (ft.) No. Yards, Sacks, Sealant or Volume (circle one) Mix Ratio or Mud Weight

Surface 7 14

6. Comments

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing PROBE TECHNOLOGIES License # _____ Date of Filling & Sealing (mm/dd/yyyy) 3/31/15 DNR Use Only

Street or Route 12225 SOUTH SHORE DR Telephone Number (262) 495-2319 Date Received _____ Noted By _____

City PALMYRA State WI ZIP Code 53156 Comments _____

Signature of Person Doing Work [Signature] Date Signed 4/17/18

Well / Drillhole / Borehole Filling & Sealing

Form 3300-005 (R 8/07)

Page 1 of 2

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Route to:

☐ Drinking Water ☐ Watershed/Wastewater ☐ Waste Management ☐ Remediation/Redevelopment ☐ Other:

1. Well Location Information

County MILWAUKEE WI Unique Well # of Removed Well 6P-14 Hicap # 6P-14

Latitude / Longitude (Degrees and Minutes) 43° 01' 51.6" N Method Code (see instructions) 87° 57' 53.1" W

1/4 NW 1/4 NW Section 36 Township 7 N Range 21 E or Gov't Lot # W

Well Street Address 3760 WHEELHOUSE ROAD

Well City, Village or Town MILWAUKEE Well ZIP Code 53202

Subdivision Name Lot #

Reason For Removal From Service WI Unique Well # of Replacement Well

3. Well / Drillhole / Borehole Information

☐ Monitoring Well ☐ Water Well ☒ Borehole / Drillhole Original Construction Date (mm/dd/yyyy) 3/31/2015 If a Well Construction Report is available, please attach.

Construction Type: ☐ Drilled ☐ Driven (Sandpoint) ☐ Dug ☒ Other (specify): DIRECT PUSH

Formation Type: ☒ Unconsolidated Formation ☐ Bedrock

Total Well Depth From Ground Surface (ft.) 16 Casing Diameter (in.) 2.25

Lower Drillhole Diameter (in.) Casing Depth (ft.)

Was well annular space grouted? ☐ Yes ☐ No ☐ Unknown

If yes, to what depth (feet)? Depth to Water (feet)

5. Material Used To Fill Well / Drillhole

BENTONITE CHIPS

2. Facility / Owner Information

Facility Name Former CMC Shops Wheelhouse Parcel

Facility ID (FID or PWS)

License/Permit/Monitoring #

Original Well Owner

Present Well Owner City of Milwaukee

Mailing Address of Present Owner 809 N. Broadway #1

City of Present Owner Milwaukee State WI ZIP Code 53202

4. Pump, Liner, Screen, Casing & Sealing Material

Pump and piping removed? ☐ Yes ☐ No ☒ N/A
Liner(s) removed? ☐ Yes ☐ No ☒ N/A
Screen removed? ☐ Yes ☐ No ☒ N/A
Casing left in place? ☐ Yes ☐ No ☒ N/A
Was casing cut off below surface? ☐ Yes ☐ No ☒ N/A
Did sealing material rise to surface? ☒ Yes ☐ No ☐ N/A
Did material settle after 24 hours? ☐ Yes ☒ No ☐ N/A
If yes, was hole retopped? ☐ Yes ☐ No ☒ N/A
If bentonite chips were used, were they hydrated with water from a known safe source? ☒ Yes ☐ No ☐ N/A

Required Method of Placing Sealing Material

☐ Conductor Pipe-Gravity ☐ Conductor Pipe-Pumped ☒ Screened & Poured (Bentonite Chips) ☐ Other (Explain):

Sealing Materials

☐ Neat Cement Grout ☐ Clay-Sand Slurry (11 lb./gal. wt.)
☐ Sand-Cement (Concrete) Grout ☐ Bentonite-Sand Slurry " "
☐ Concrete ☒ Bentonite Chips

For Monitoring Wells and Monitoring Well Boreholes Only:

☐ Bentonite Chips ☐ Bentonite - Cement Grout
☐ Granular Bentonite ☐ Bentonite - Sand Slurry

6. Comments

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing PROBE TECHNOLOGIES License # 3/31/15 Date of Filling & Sealing (mm/dd/yyyy) 3/31/15

Street or Route 1225 SOUTH SHORE DR Telephone Number (262) 495-2319 Comments

City PALMYRA State WI ZIP Code 53156 Signature of Person Doing Work [Signature] Date Signed 4/17/18

DNR Use Only

Date Received 4/17/18 Noted By

Notice: Completion of this report is required by chs. 160, 281, 283, 289, 291-293, 295, and 299, Wis. Stats., and ch. NR 141, Wis. Adm. Code. In accordance with chs. 281, 289, 291-293, 295, and 299, Wis. Stats., failure to file this form may result in a forfeiture of between \$10-25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. Return form to the appropriate DNR office and bureau. See instructions on reverse for more information.

Route to:

☐ Drinking Water ☐ Watershed/Wastewater ☐ Waste Management ☐ Remediation/Redevelopment ☐ Other:

1. Well Location Information

County MILWAUKEE WI Unique Well # of Removed Well GP-15 Hicap #
Latitude / Longitude (Degrees and Minutes) 43° 01' 51.6" N Method Code (see instructions)
87° 57' 51.9" W
1/4 1/4 NW 1/4 NW Section 36 Township 7 N Range 21 E
or Gov't Lot # ☒ W

Well Street Address 3760 WHEELHOUSE ROAD
Well City, Village or Town MILWAUKEE Well ZIP Code
Subdivision Name Lot #

Reason For Removal From Service WI Unique Well # of Replacement Well

3. Well / Drillhole / Borehole Information

☐ Monitoring Well Original Construction Date (mm/dd/yyyy) 3/31/2015
☐ Water Well
☒ Borehole / Drillhole If a Well Construction Report is available, please attach.
Construction Type:
☐ Drilled ☐ Driven (Sandpoint) ☐ Dug
☒ Other (specify): DIRECT PUSH

Formation Type:
☒ Unconsolidated Formation ☐ Bedrock
Total Well Depth From Ground Surface (ft.) 160 Casing Diameter (in.) 2-25
Lower Drillhole Diameter (in.) Casing Depth (ft.)
Was well annular space grouted? ☐ Yes ☐ No ☐ Unknown
If yes, to what depth (feet)? Depth to Water (feet)

5. Material Used To Fill Well / Drillhole

BENTONITE CHIPS

2. Facility / Owner Information

Facility Name Former CMC Shops Wheelhouse Parcel
Facility ID (FID or PWS)
License/Permit/Monitoring #
Original Well Owner
Present Well Owner CITY of Milwaukee
Mailing Address of Present Owner 809 N. Broadway #1
City of Present Owner Milwaukee State WI ZIP Code 53202

4. Pump, Liner, Screen, Casing & Sealing Material

Pump and piping removed? ☐ Yes ☐ No ☒ N/A
Liner(s) removed? ☐ Yes ☐ No ☒ N/A
Screen removed? ☐ Yes ☐ No ☒ N/A
Casing left in place? ☐ Yes ☐ No ☒ N/A
Was casing cut off below surface? ☐ Yes ☐ No ☒ N/A
Did sealing material rise to surface? ☒ Yes ☐ No ☐ N/A
Did material settle after 24 hours? ☐ Yes ☒ No ☐ N/A
If yes, was hole retopped? ☐ Yes ☐ No ☒ N/A
If bentonite chips were used, were they hydrated with water from a known safe source? ☒ Yes ☐ No ☐ N/A

Required Method of Placing Sealing Material

☐ Conductor Pipe-Gravity ☐ Conductor Pipe-Pumped
☒ Screened & Poured (Bentonite Chips) ☐ Other (Explain):

Sealing Materials

☐ Neat Cement Grout ☐ Clay-Sand Slurry (11 lb./gal. wt.)
☐ Sand-Cement (Concrete) Grout ☐ Bentonite-Sand Slurry " "
☐ Concrete ☒ Bentonite Chips

For Monitoring Wells and Monitoring Well Boreholes Only:

☐ Bentonite Chips ☐ Bentonite - Cement Grout
☐ Granular Bentonite ☐ Bentonite - Sand Slurry

From (ft.)	To (ft.)	No. Yards, Sacks, Sealant or Volume (circle one)	Mix Ratio or Mud Weight
Surface	<u>16</u>	<u>3/4</u>	

6. Comments

7. Supervision of Work

Supervision of Work				DNR Use Only	
Name of Person or Firm Doing Filling & Sealing	License #	Date of Filling & Sealing (mm/dd/yyyy)	Date Received	Noted By	
<u>PROBE TECHNOLOGIES</u>		<u>3/31/15</u>			
Street or Route <u>W1225 SOUTH SHORE DR</u>			Telephone Number <u>(262) 495-2319</u>		
City <u>PALMYRA</u> State <u>WI</u> ZIP Code <u>53150</u>			Signature of Person Doing Work <u>[Signature]</u> Date Signed <u>4/17/18</u>		

Appendix C

Photographs



Photographic Log

Client Name:		Site Location:	Project No.:
Wisconsin Department of Transportation (WisDOT)		Former CMC Shops Wheelhouse Parcel Milwaukee, Milwaukee County, WI	WisDOT:1060-27-00 TRC: 232269.0000.0000
Photo No.	Date		
1	3/30/2015		
Description Looking south at the location of GP-1.			
Photo No.	Date		
2	3/30/2015		
Description Looking south at the location of GP-2.			



Photographic Log

Client Name:		Site Location:	Project No.:
Wisconsin Department of Transportation (WisDOT)		Former CMC Shops Wheelhouse Parcel Milwaukee, Milwaukee County, WI	WisDOT:1060-27-00 TRC: 232269.0000.0000
Photo No.	Date		
3	3/30/2015		
Description			
Free product was present in soil at GP-2.			

Photo No.	Date	
4	3/30/2015	
Description		
Looking northeast at the location of GP-3 (pink flag near bentonite).		



Photographic Log

Client Name:		Site Location:	Project No.:
Wisconsin Department of Transportation (WisDOT)		Former CMC Shops Wheelhouse Parcel Milwaukee, Milwaukee County, WI	WisDOT:1060-27-00 TRC: 232269.0000.0000
Photo No.	Date		
5	3/30/2015		
Description			
Looking southeast at the location of GP-4.			
Photo No.	Date		
6	3/30/2015		
Description			
Looking southeast at the location of GP-5.			



Photographic Log

Client Name:		Site Location:	Project No.:
Wisconsin Department of Transportation (WisDOT)		Former CMC Shops Wheelhouse Parcel Milwaukee, Milwaukee County, WI	WisDOT:1060-27-00 TRC: 232269.0000.0000
Photo No.	Date		
7	3/30/2015		
Description		Looking southeast at the location of GP-6.	
Photo No.	Date		
8	3/30/2015		
Description		Looking southeast at the location of GP-7.	



Photographic Log

Client Name:		Site Location:	Project No.:
Wisconsin Department of Transportation (WisDOT)		Former CMC Shops Wheelhouse Parcel Milwaukee, Milwaukee County, WI	WisDOT:1060-27-00 TRC: 232269.0000.0000
Photo No.	Date		
9	3/31/2015		
Description			
Looking south at the location of GP-8 (green bucket).			

Photo No.	Date		
10	3/31/2015		
Description			
Looking south at the location of GP-9.			



Photographic Log

Client Name:		Site Location:	Project No.:
Wisconsin Department of Transportation (WisDOT)		Former CMC Shops Wheelhouse Parcel Milwaukee, Milwaukee County, WI	WisDOT:1060-27-00 TRC: 232269.0000.0000
Photo No.	Date		
11	3/31/2015		
Description Looking north at the location of GP-10.			
Photo No.	Date		
12	3/31/2015		
Description Looking north at the location of GP-11.			



Photographic Log

Client Name:		Site Location:	Project No.:
Wisconsin Department of Transportation (WisDOT)		Former CMC Shops Wheelhouse Parcel Milwaukee, Milwaukee County, WI	WisDOT:1060-27-00 TRC: 232269.0000.0000
Photo No.	Date		
13	3/31/2015		
Description Fill material encountered at GP-11 at approximately 6 feet below ground surface comprised of brick and concrete.			
Photo No.	Date		
14	3/31/2015		
Description Looking north at the location of GP-12.			



Photographic Log

Client Name:		Site Location:	Project No.:
Wisconsin Department of Transportation (WisDOT)		Former CMC Shops Wheelhouse Parcel Milwaukee, Milwaukee County, WI	WisDOT:1060-27-00 TRC: 232269.0000.0000
Photo No.	Date		
15	3/31/2015		
Description Looking northwest at the location of GP-13.			

Photo No.	Date	
16	3/31/2015	
Description Clay layer, approximately 0 to 2 feet below ground surface overlaying foundry sand and other fill materials at GP-13.		



Photographic Log

Client Name:		Site Location:	Project No.:
Wisconsin Department of Transportation (WisDOT)		Former CMC Shops Wheelhouse Parcel Milwaukee, Milwaukee County, WI	WisDOT:1060-27-00 TRC: 232269.0000.0000
Photo No.	Date		
17	3/31/2015		
Description Looking west at the location of GP-14.			
Photo No.	Date		
18	3/31/2015		
Description Looking south at the location of GP-15.			

Appendix D

Laboratory Analytical Report



BULK ASBESTOS ANALYSIS REPORT

CLIENT: Wisconsin Department of Transportation

Lab Log #: 0045583
Project #: 232269.0000.0000
Date Received: 04/02/2015
Date Analyzed: 04/02/2015

Site: Former CMC Shops Wheel House Parcel, Milwaukee, WI

POLARIZED LIGHT MICROSCOPY by EPA 600/R-93/116

Sample No.	Color	Homogenous	Multi-Layered	Layer No.	Other Matrix Materials	Asbestos %	Asbestos Type
GP-1 (0'-4')	Soil Sample	--	--	--	---	ND	None
GP-2 (0'-4')	Soil Sample	--	--	--	5% cellulose	ND	None
GP-3 (0'-4')	Soil Sample	--	--	--	---	ND	None
GP-4 (0'-4')	Soil Sample	--	--	--	5% cellulose	ND	None
GP-5 (0'-4')	Soil Sample	--	--	--	---	ND	None
GP-6 (0'-4')	Soil Sample	--	--	--	3% cellulose	ND	None
GP-7 (0'-4')	Soil Sample	--	--	--	5% cellulose	ND	None
GP-8 (0'-4')	Soil Sample	--	--	--	---	ND	None
GP-9 (0'-4')	Soil Sample	--	--	--	---	ND	None
GP-10 (0'-4')	Soil Sample	--	--	--	2% cellulose	ND	None
GP-11 (0'-4')	Soil Sample	--	--	--	---	ND	None
GP-12 (0'-4')	Soil Sample	--	--	--	5% cellulose	ND	None
GP-13 (0'-4')	Soil Sample	--	--	--	5% cellulose	ND	None
GP-14 (0'-4')	Soil Sample	--	--	--	3% cellulose	ND	None
GP-15 (0'-4')	Soil Sample	--	--	--	---	ND	None

TRC LABORATORY ASBESTOS ANALYTICAL ACCREDITATIONS

NVLAP Lab Code 101424-0	AIHA-LAP.LLC #100122	CT #PH-0426	ME LA-0075, LB-0071	MA #AA000052	NY #10980	WV# LT000411
RI #AAL-007	TX #300354	VT #AL014538	LA#05011	VA #3333 000283	AZ #A20944	HI #L-09-004
CO# AL-15020	PHIL# 461	PA#68-03387				NJ #CT004
						CA #2907



POLARIZED LIGHT MICROSCOPY by EPA 600/R-93/116

Sample No.	Color	Homogenous	Multi-Layered	Layer No.	Other Matrix Materials	Asbestos %	Asbestos Type
------------	-------	------------	---------------	-----------	------------------------	------------	---------------

Reporting limit- asbestos present at 1%

ND - asbestos was not detected

Trace - asbestos was observed at level of less than 1%

NA/PS - Not Analyzed / Positive Stop

SNA- Sample Not Analyzed- See Chain of Custody for details

Note: Polarized-light microscopy is not consistently reliable in detecting asbestos in floor coverings and similar non-friable organically bound materials. In those cases, negative results must be confirmed by quantitative transmission electron microscopy.

The Laboratory at TRC follows the EPA's Interim Method for the Determination of Asbestos in Bulk Insulation (1982), and the EPA recommended Method for the Determination of Asbestos in Bulk Building Materials (EPA/600/R-93/116), July 1993, R.L. Perkins and B.W. Harvey which utilizes polarized light microscopy (PLM). Our analysts have completed an accredited course in asbestos identification. TRC's Laboratory is accredited under the National Voluntary Laboratory Accreditation Program (NVLAP), for Bulk Asbestos Fiber Analysis, NVLAP Code 18/A01, effective through June 30, 2015. TRC is an American Industrial Hygiene Association (AIHA) accredited lab for PLM effective through October 1, 2016. Asbestos content is determined by visual estimate unless otherwise indicated. Quality Control is performed in-house on at least 10% of samples and the QC data related to the samples is available upon written request from the client.

This report shall not be reproduced, except in full, without the written approval of TRC. This report must not be used by the client to claim product endorsement by NVLAP or any agency of the U.S. Government. This report relates only to the items tested.

Analyzed by: <u>Aud Pal</u>	Reviewed by: <u>K. Williamson</u>	Date Issued
Amanda Parkins, Laboratory Analyst	Kathleen Williamson, Laboratory Manager	04/02/2015

TRC LABORATORY ASBESTOS ANALYTICAL ACCREDITATIONS

NVLAP Lab Code 101424-0	AIHA-LAP.LLC #100122	CT #PH-0426	ME LA-0075, LB-0071	MA #AA000052	NY #10980	WV# LT000411
RI #AAL-007 TX #300354	VT #AL014538 LA#05011	VA #3333 000283	AZ #A20944	HI #L-09-004	NJ #CT004	CA #2907
CO# AL-15020	PHIL# 461	PA#68-03387				



21 GRIFFIN ROAD NORTH
WINDSOR, CONNECTICUT 06095
TELEPHONE (860) 298-9692
FAX (860) 298-6380

ASBESTOS BULK SAMPLING CHAIN OF CUSTODY

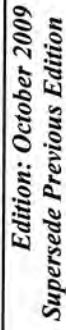
Edition: October 2009
Supersede Previous Edition

LAB ID #. 45553

W E D O T

PROJECT NUMBER		PROJECT NAME		PARAMETERS				TURNAROUND TIME						
232269.0000.0000		Former CMC Shops Wheelhouse		PLM EPA 600/R93/116 (POSITIVE STOP)	PLM EPA 600/R93/116 (w/ gravimetric reduction) (POSITIVE STOP)	ANALYZE BY LAYER	POINT COUNT (IF >1% & <10%)	TEM NY NOB 198.4 (IF PLM SERIES NEG)	PLM:	8hr	24hr	48hr	3day	5day
SIGNATURE		INSPECTOR		MATERIAL										
		Andrew Heeter												
FIELD SAMPLE NUMBER	DATE	TIME	TYPE		SAMPLE LOCATION									
			COMP	GRAB										
	3-30-15	0900		x	GP-1 (0'-4')									
	3-30-15	1000		x	GP-2 (0'-4')									
	3-30-15	1030		x	GP-3 (0'-4')									
	3-30-15	1100		x	GP-4 (0'-4')									
	3-30-15	1200		x	GP-5 (0'-4')									
	3-30-15	1300		x	GP-6 (0'-4')									
	3-30-15	1400		x	GP-7 (0'-4')									
	3-31-15	0800		x	GP-8 (0'-4')									
	3-31-15	0845		x	GP-9 (0'-4')									
	3-31-15	1000		x	GP-10 (0'-4')									
	3-31-15	1100		x	GP-11 (0'-4')									

Relinquished by: (Signature) 	Date: 4-1-15	Received by: (Signature) 	Date: 4/2/15	Relinquished by: (Signature)	Date:	Received by: (Signature)
(Printed) Andrew Heeter	Time: 1600	(Printed) 1000	Time: 1000	(Printed)	Time:	(Printed)
Remarks:				Condition of Samples: Acceptable: Yes ☒ No ☐ Comments:		
				Page 1 of 1		



ASBESTOS BULK SAMPLING CHAIN OF CUSTODY

LAB ID #: 45583

[illegible]

Relinquished by: (Signature) 	Date: 4-1-15	Received by: (Signature) 	4/2/15	Relinquished by: (Signature)	Date:	Received by: (Signature)
(Printed) Andrew Heltzer	Time: 1600	(Printed) [illegible]	1000	(Printed)	Time:	(Printed)
Remarks:				Condition of Samples: Acceptable: Yes ☒ No ☐ Comments:		
				Page 1 of 1		

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Chicago

2417 Bond Street

University Park, IL 60484

Tel: (708)534-5200

TestAmerica Job ID: 500-94066-1

Client Project/Site: Former CMC Shops Wheelhouse 232269

For:

TRC Environmental Corporation.

150 N. Patrick Blvd.

Suite 180

Brookfield, Wisconsin 53045

Attn: Mr. Bryan Bergmann



Authorized for release by:

4/15/2015 11:22:38 AM

Sandie Fredrick, Project Manager II

(920)261-1660

sandie.fredrick@testamericainc.com

LINKS

Review your project
results through

TotalAccess

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.

Table of Contents

Cover Page	1
Table of Contents	2
Case Narrative	3
Detection Summary	4
Method Summary	16
Sample Summary	17
Client Sample Results	18
Definitions	99
QC Association	100
Surrogate Summary	111
QC Sample Results	115
Chronicle	144
Certification Summary	157
Chain of Custody	158
Receipt Checklists	163



Case Narrative

Client: TRC Environmental Corporation.
Project/Site: Former CMC Shops Wheelhouse 232269

TestAmerica Job ID: 500-94066-1

Job ID: 500-94066-1

Laboratory: TestAmerica Chicago

Narrative

Job Narrative 500-94066-1

Comments

No additional comments.

Receipt

The samples were received on 4/2/2015 9:30 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 4 coolers at receipt time were 2.8° C, 3.3° C, 3.6° C and 5.2° C.

Except: The water Trip Blank sample vial was received broken. no sample remains.

We received 2 sets of bottles both labeled GP-2 (8-10) but did not receive a set of bottles for GP-3 (8-10).

Did not receive sample GP-4 (6-8) but we received a set of bottles with no sample ID's on them.

Sample GP-4 6-8 the client confirmed this is the set with no sample ID's. They will resample the GP2 (8-10) and GP3 (8-10)

GC/MS VOA

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

GC/MS Semi VOA

Method(s) 8270D: The following sample contained one base surrogate outside acceptance limits: 500-94066-13. The laboratory's SOP allows one acid and one base surrogate to be outside acceptance limits; therefore, re-extraction was not performed. These results have been reported and qualified.

Method(s) 8270D: The following sample was diluted due to the nature of the sample matrix: 500-94066-12, 19, 21, 22, 26, 29. Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC Semi VOA

Method(s) 8082: The following sample was diluted to bring the concentration of target analytes within the calibration range: 500-94066-22. Elevated reporting limits (RLs) are provided.

Method(s) 8082: TCX recovery for the following sample was outside control limits: 500-94066-5, 8, 29, 32. Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Metals

Method(s) 6020: The internal standard Scandium (Sc) for batch 282566 was used to report the element Cr. Also, the internal standard Rhodium (Rh) was used to report the element Ag. These were used due to a concentration of Yttrium in the samples.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Organic Prep

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Detection Summary

Client: TRC Environmental Corporation.
Project/Site: Former CMC Shops Wheelhouse 232269

TestAmerica Job ID: 500-94066-1

Client Sample ID: GP-1 (2-4)

Lab Sample ID: 500-94066-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Methylnaphthalene	7.3	J	36	6.7	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	30	J	36	4.9	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	28	J	36	7.0	ug/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	37		36	7.8	ug/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	29	J F2 F1	36	12	ug/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	22	J	36	11	ug/Kg	1	☼	8270D	Total/NA
Chrysene	30	J	36	9.9	ug/Kg	1	☼	8270D	Total/NA
Fluoranthene	48	F1	36	6.7	ug/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	24	J	36	9.4	ug/Kg	1	☼	8270D	Total/NA
Phenanthrene	54		36	5.0	ug/Kg	1	☼	8270D	Total/NA
Pyrene	44		36	7.2	ug/Kg	1	☼	8270D	Total/NA
Arsenic	5.3		1.1	0.52	mg/Kg	1	☼	6010B	Total/NA
Barium	25		1.1	0.21	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.54		0.22	0.065	mg/Kg	1	☼	6010B	Total/NA
Chromium	9.6		1.1	0.19	mg/Kg	1	☼	6010B	Total/NA
Lead	26		0.56	0.28	mg/Kg	1	☼	6010B	Total/NA
Mercury	0.028		0.017	0.0061	mg/Kg	1	☼	7471A	Total/NA

Client Sample ID: GP-1 (6-8)

Lab Sample ID: 500-94066-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,2,4-Trimethylbenzene	1400		170	18	ug/Kg	50	☼	8260B	Total/NA
1,3,5-Trimethylbenzene	230		170	17	ug/Kg	50	☼	8260B	Total/NA
n-Butylbenzene	200		83	11	ug/Kg	50	☼	8260B	Total/NA
N-Propylbenzene	170		170	15	ug/Kg	50	☼	8260B	Total/NA
sec-Butylbenzene	130		83	13	ug/Kg	50	☼	8260B	Total/NA
Xylenes, Total	68		41	5.7	ug/Kg	50	☼	8260B	Total/NA
1-Methylnaphthalene	84		42	10	ug/Kg	1	☼	8270D	Total/NA
2-Methylnaphthalene	88		42	7.8	ug/Kg	1	☼	8270D	Total/NA
Naphthalene	16	J	42	6.5	ug/Kg	1	☼	8270D	Total/NA
PCB-1254	110		21	4.6	ug/Kg	1	☼	8082	Total/NA
Arsenic	3.0		1.3	0.59	mg/Kg	1	☼	6010B	Total/NA
Barium	28		1.3	0.23	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.19	J	0.26	0.074	mg/Kg	1	☼	6010B	Total/NA
Chromium	9.2		1.3	0.22	mg/Kg	1	☼	6010B	Total/NA
Lead	5.9		0.64	0.32	mg/Kg	1	☼	6010B	Total/NA
Mercury	0.018	J	0.019	0.0066	mg/Kg	1	☼	7471A	Total/NA

Client Sample ID: GP-1 (14-16)

Lab Sample ID: 500-94066-3

No Detections.

Client Sample ID: GP-2 (4-6)

Lab Sample ID: 500-94066-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	5.5		1.4	0.65	mg/Kg	1	☼	6010B	Total/NA
Barium	85		1.4	0.26	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.56		0.28	0.081	mg/Kg	1	☼	6010B	Total/NA
Chromium	18		1.4	0.24	mg/Kg	1	☼	6010B	Total/NA
Lead	13		0.70	0.35	mg/Kg	1	☼	6010B	Total/NA
Mercury	0.045		0.023	0.0081	mg/Kg	1	☼	7471A	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: TRC Environmental Corporation.
Project/Site: Former CMC Shops Wheelhouse 232269

TestAmerica Job ID: 500-94066-1

Client Sample ID: GP-2 (8-10)

Lab Sample ID: 500-94066-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
sec-Butylbenzene	85		70	11	ug/Kg	50		✱	8260B	Total/NA
Acenaphthene	40		38	6.9	ug/Kg	1		✱	8270D	Total/NA
Anthracene	32	J	38	6.4	ug/Kg	1		✱	8270D	Total/NA
Fluoranthene	45		38	7.1	ug/Kg	1		✱	8270D	Total/NA
Fluorene	22	J	38	5.4	ug/Kg	1		✱	8270D	Total/NA
Phenanthrene	8.0	J	38	5.3	ug/Kg	1		✱	8270D	Total/NA
Pyrene	94		38	7.6	ug/Kg	1		✱	8270D	Total/NA
PCB-1260	26		19	9.3	ug/Kg	1		✱	8082	Total/NA
Arsenic	3.0		1.1	0.52	mg/Kg	1		✱	6010B	Total/NA
Barium	14		1.1	0.21	mg/Kg	1		✱	6010B	Total/NA
Cadmium	0.27		0.23	0.066	mg/Kg	1		✱	6010B	Total/NA
Chromium	7.4		1.1	0.19	mg/Kg	1		✱	6010B	Total/NA
Lead	3.9		0.57	0.28	mg/Kg	1		✱	6010B	Total/NA
Mercury	0.014	J B	0.019	0.0067	mg/Kg	1		✱	7471A	Total/NA

Client Sample ID: GP-2 (14-16)

Lab Sample ID: 500-94066-6

No Detections.

Client Sample ID: GP-3 (2-4)

Lab Sample ID: 500-94066-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Arsenic	4.7		0.92	0.43	mg/Kg	1		✱	6010B	Total/NA
Barium	19		0.92	0.17	mg/Kg	1		✱	6010B	Total/NA
Cadmium	0.45		0.18	0.053	mg/Kg	1		✱	6010B	Total/NA
Chromium	9.8		0.92	0.16	mg/Kg	1		✱	6010B	Total/NA
Lead	8.5		0.46	0.23	mg/Kg	1		✱	6010B	Total/NA
Mercury	0.0072	J	0.017	0.0058	mg/Kg	1		✱	7471A	Total/NA

Client Sample ID: GP-3 (8-10)

Lab Sample ID: 500-94066-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Acenaphthene	470		40	7.2	ug/Kg	1		✱	8270D	Total/NA
Acenaphthylene	140		40	5.3	ug/Kg	1		✱	8270D	Total/NA
Anthracene	280		40	6.7	ug/Kg	1		✱	8270D	Total/NA
Chrysene	25	J	40	11	ug/Kg	1		✱	8270D	Total/NA
Fluoranthene	13	J	40	7.4	ug/Kg	1		✱	8270D	Total/NA
Fluorene	700		40	5.6	ug/Kg	1		✱	8270D	Total/NA
Naphthalene	180		40	6.2	ug/Kg	1		✱	8270D	Total/NA
Phenanthrene	840		40	5.6	ug/Kg	1		✱	8270D	Total/NA
1-Methylnaphthalene - DL	5200		400	98	ug/Kg	10		✱	8270D	Total/NA
2-Methylnaphthalene - DL	4100		400	74	ug/Kg	10		✱	8270D	Total/NA
Pyrene - DL	160	J	400	80	ug/Kg	10		✱	8270D	Total/NA
Arsenic	1.8		1.2	0.56	mg/Kg	1		✱	6010B	Total/NA
Barium	48		1.2	0.22	mg/Kg	1		✱	6010B	Total/NA
Cadmium	0.19	J	0.24	0.070	mg/Kg	1		✱	6010B	Total/NA
Chromium	11		1.2	0.21	mg/Kg	1		✱	6010B	Total/NA
Lead	6.2		0.61	0.30	mg/Kg	1		✱	6010B	Total/NA
Mercury	0.018	B	0.018	0.0063	mg/Kg	1		✱	7471A	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: TRC Environmental Corporation.
Project/Site: Former CMC Shops Wheelhouse 232269

TestAmerica Job ID: 500-94066-1

Client Sample ID: GP-4 (2-4)

Lab Sample ID: 500-94066-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,1-Trichloroethane	110		57	12	ug/Kg	50	☼	8260B	Total/NA
Phenanthrene	8.8	J	35	4.9	ug/Kg	1	☼	8270D	Total/NA
Arsenic	4.0		1.0	0.47	mg/Kg	1	☼	6010B	Total/NA
Barium	12	V	1.0	0.19	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.31		0.20	0.059	mg/Kg	1	☼	6010B	Total/NA
Chromium	5.6		1.0	0.18	mg/Kg	1	☼	6010B	Total/NA
Lead	27	F1	0.51	0.25	mg/Kg	1	☼	6010B	Total/NA
Mercury	0.033		0.017	0.0058	mg/Kg	1	☼	7471A	Total/NA

Client Sample ID: GP-4 (6-8)

Lab Sample ID: 500-94066-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
n-Butylbenzene	190		64	8.3	ug/Kg	50	☼	8260B	Total/NA
2-Methylnaphthalene	3000		45	8.4	ug/Kg	1	☼	8270D	Total/NA
Acenaphthene	470		45	8.2	ug/Kg	1	☼	8270D	Total/NA
Anthracene	190		45	7.6	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	9.5	J	45	6.2	ug/Kg	1	☼	8270D	Total/NA
Chrysene	13	J	45	12	ug/Kg	1	☼	8270D	Total/NA
Fluoranthene	15	J	45	8.5	ug/Kg	1	☼	8270D	Total/NA
Fluorene	680		45	6.4	ug/Kg	1	☼	8270D	Total/NA
Naphthalene	76		45	7.0	ug/Kg	1	☼	8270D	Total/NA
Phenanthrene	760		45	6.4	ug/Kg	1	☼	8270D	Total/NA
Pyrene	120		45	9.1	ug/Kg	1	☼	8270D	Total/NA
1-Methylnaphthalene - DL	5200		450	110	ug/Kg	10	☼	8270D	Total/NA
Arsenic	1.3	J	1.4	0.63	mg/Kg	1	☼	6010B	Total/NA
Barium	59		1.4	0.25	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.18	J	0.27	0.080	mg/Kg	1	☼	6010B	Total/NA
Chromium	11		1.4	0.24	mg/Kg	1	☼	6010B	Total/NA
Lead	6.7		0.69	0.34	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.82	J	1.4	0.68	mg/Kg	1	☼	6010B	Total/NA
Mercury	0.026		0.022	0.0078	mg/Kg	1	☼	7471A	Total/NA

Client Sample ID: GP-5 (2-4)

Lab Sample ID: 500-94066-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,2-Dichlorobenzene	140		130	13	ug/Kg	50	☼	8260B	Total/NA
1-Methylnaphthalene	25	J	37	9.1	ug/Kg	1	☼	8270D	Total/NA
2-Methylnaphthalene	33	J	37	6.8	ug/Kg	1	☼	8270D	Total/NA
Anthracene	15	J	37	6.2	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	34	J	37	5.0	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	27	J	37	7.2	ug/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	59		37	8.0	ug/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	24	J	37	12	ug/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	19	J	37	11	ug/Kg	1	☼	8270D	Total/NA
Chrysene	57		37	10	ug/Kg	1	☼	8270D	Total/NA
Fluoranthene	84		37	6.9	ug/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	16	J	37	9.6	ug/Kg	1	☼	8270D	Total/NA
Naphthalene	30	J	37	5.7	ug/Kg	1	☼	8270D	Total/NA
Phenanthrene	75		37	5.2	ug/Kg	1	☼	8270D	Total/NA
Pyrene	67		37	7.4	ug/Kg	1	☼	8270D	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: TRC Environmental Corporation.
Project/Site: Former CMC Shops Wheelhouse 232269

TestAmerica Job ID: 500-94066-1

Client Sample ID: GP-5 (2-4) (Continued)

Lab Sample ID: 500-94066-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
PCB-1254	21		18	3.9	ug/Kg	1	☼	8082	Total/NA
PCB-1260	20		18	9.0	ug/Kg	1	☼	8082	Total/NA
Arsenic	7.0		1.1	0.53	mg/Kg	1	☼	6010B	Total/NA
Barium	40		1.1	0.21	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.67		0.23	0.066	mg/Kg	1	☼	6010B	Total/NA
Chromium	14		1.1	0.20	mg/Kg	1	☼	6010B	Total/NA
Lead	85		0.57	0.28	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.83	J	1.1	0.56	mg/Kg	1	☼	6010B	Total/NA
Mercury	0.067		0.017	0.0058	mg/Kg	1	☼	7471A	Total/NA

Client Sample ID: GP-5 (6-8)

Lab Sample ID: 500-94066-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
PCB-1260	89		20	10	ug/Kg	1	☼	8082	Total/NA
Arsenic	5.4		1.1	0.52	mg/Kg	1	☼	6010B	Total/NA
Barium	34		1.1	0.21	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.23		0.23	0.065	mg/Kg	1	☼	6010B	Total/NA
Chromium	9.8		1.1	0.19	mg/Kg	1	☼	6010B	Total/NA
Lead	6.3		0.56	0.28	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.57	J	1.1	0.56	mg/Kg	1	☼	6010B	Total/NA
Mercury	0.011	J	0.018	0.0062	mg/Kg	1	☼	7471A	Total/NA

Client Sample ID: GP-6 (4-6)

Lab Sample ID: 500-94066-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	6.4		1.5	0.69	mg/Kg	1	☼	6010B	Total/NA
Barium	140		1.5	0.27	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.43		0.30	0.087	mg/Kg	1	☼	6010B	Total/NA
Chromium	24		1.5	0.26	mg/Kg	1	☼	6010B	Total/NA
Lead	16		0.75	0.37	mg/Kg	1	☼	6010B	Total/NA
Selenium	1.2	J	1.5	0.74	mg/Kg	1	☼	6010B	Total/NA
Mercury	0.079		0.024	0.0084	mg/Kg	1	☼	7471A	Total/NA

Client Sample ID: GP-6 (10-12)

Lab Sample ID: 500-94066-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	3.3		1.3	0.59	mg/Kg	1	☼	6010B	Total/NA
Barium	44		1.3	0.23	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.26		0.26	0.074	mg/Kg	1	☼	6010B	Total/NA
Chromium	12		1.3	0.22	mg/Kg	1	☼	6010B	Total/NA
Lead	7.7		0.64	0.32	mg/Kg	1	☼	6010B	Total/NA
Selenium	2.4		1.3	0.63	mg/Kg	1	☼	6010B	Total/NA
Mercury	0.022		0.020	0.0071	mg/Kg	1	☼	7471A	Total/NA

Client Sample ID: GP-6 (14-16)

Lab Sample ID: 500-94066-15

No Detections.

Client Sample ID: GP-7 (4-6)

Lab Sample ID: 500-94066-16

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: TRC Environmental Corporation.
Project/Site: Former CMC Shops Wheelhouse 232269

TestAmerica Job ID: 500-94066-1

Client Sample ID: GP-7 (4-6) (Continued)

Lab Sample ID: 500-94066-16

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	3.3		1.2	0.56	mg/Kg	1	☼	6010B	Total/NA
Barium	29		1.2	0.22	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.32		0.24	0.070	mg/Kg	1	☼	6010B	Total/NA
Chromium	8.8		1.2	0.21	mg/Kg	1	☼	6010B	Total/NA
Lead	5.2		0.60	0.30	mg/Kg	1	☼	6010B	Total/NA
Mercury	0.021		0.021	0.0072	mg/Kg	1	☼	7471A	Total/NA

Client Sample ID: GP-7 (10-12)

Lab Sample ID: 500-94066-17

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	2.5		1.1	0.51	mg/Kg	1	☼	6010B	Total/NA
Barium	12		1.1	0.20	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.13	J	0.22	0.064	mg/Kg	1	☼	6010B	Total/NA
Chromium	7.8		1.1	0.19	mg/Kg	1	☼	6010B	Total/NA
Lead	4.5		0.55	0.27	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.57	J	1.1	0.54	mg/Kg	1	☼	6010B	Total/NA

Client Sample ID: GP-7 (14-16)

Lab Sample ID: 500-94066-18

No Detections.

Client Sample ID: GP-8 (4-6)

Lab Sample ID: 500-94066-19

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]anthracene	1200	J	1800	240	ug/Kg	50	☼	8270D	Total/NA
Benzo[a]pyrene	1000	J	1800	340	ug/Kg	50	☼	8270D	Total/NA
Benzo[b]fluoranthene	1400	J	1800	380	ug/Kg	50	☼	8270D	Total/NA
Benzo[g,h,i]perylene	730	J	1800	570	ug/Kg	50	☼	8270D	Total/NA
Benzo[k]fluoranthene	640	J	1800	530	ug/Kg	50	☼	8270D	Total/NA
Chrysene	1200	J	1800	490	ug/Kg	50	☼	8270D	Total/NA
Fluoranthene	2000		1800	330	ug/Kg	50	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	640	J	1800	460	ug/Kg	50	☼	8270D	Total/NA
Phenanthrene	760	J	1800	250	ug/Kg	50	☼	8270D	Total/NA
Pyrene	1900		1800	350	ug/Kg	50	☼	8270D	Total/NA
Arsenic	4.0		1.1	0.49	mg/Kg	1	☼	6010B	Total/NA
Barium	51		1.1	0.19	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.27		0.21	0.062	mg/Kg	1	☼	6010B	Total/NA
Chromium	14		1.1	0.18	mg/Kg	1	☼	6010B	Total/NA
Lead	39		0.53	0.26	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.63	J	1.1	0.53	mg/Kg	1	☼	6010B	Total/NA
Mercury	0.025		0.016	0.0057	mg/Kg	1	☼	7471A	Total/NA

Client Sample ID: GP-9 (2-4)

Lab Sample ID: 500-94066-20

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acenaphthene	36	J	39	7.0	ug/Kg	1	☼	8270D	Total/NA
Acenaphthylene	23	J	39	5.1	ug/Kg	1	☼	8270D	Total/NA
Anthracene	92		39	6.5	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	320		39	5.2	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	320		39	7.5	ug/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	450		39	8.4	ug/Kg	1	☼	8270D	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: TRC Environmental Corporation.
Project/Site: Former CMC Shops Wheelhouse 232269

TestAmerica Job ID: 500-94066-1

Client Sample ID: GP-9 (2-4) (Continued)

Lab Sample ID: 500-94066-20

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[g,h,i]perylene	190		39	13	ug/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	180		39	11	ug/Kg	1	☼	8270D	Total/NA
Chrysene	310		39	11	ug/Kg	1	☼	8270D	Total/NA
Dibenz(a,h)anthracene	50		39	7.5	ug/Kg	1	☼	8270D	Total/NA
Fluoranthene	610		39	7.2	ug/Kg	1	☼	8270D	Total/NA
Fluorene	35 J		39	5.5	ug/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	190		39	10	ug/Kg	1	☼	8270D	Total/NA
Phenanthrene	220		39	5.4	ug/Kg	1	☼	8270D	Total/NA
Pyrene	520		39	7.7	ug/Kg	1	☼	8270D	Total/NA
Arsenic	3.7		1.2	0.54	mg/Kg	1	☼	6010B	Total/NA
Barium	60		1.2	0.21	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.20 J		0.23	0.068	mg/Kg	1	☼	6010B	Total/NA
Chromium	17		1.2	0.20	mg/Kg	1	☼	6010B	Total/NA
Lead	26		0.59	0.29	mg/Kg	1	☼	6010B	Total/NA
Mercury	0.042		0.019	0.0067	mg/Kg	1	☼	7471A	Total/NA

Client Sample ID: GP-10 (2-4)

Lab Sample ID: 500-94066-21

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,2,4-Trimethylbenzene	320		120	12	ug/Kg	50	☼	8260B	Total/NA
Benzene	87		14	4.3	ug/Kg	50	☼	8260B	Total/NA
Ethylbenzene	110		14	7.3	ug/Kg	50	☼	8260B	Total/NA
Naphthalene	600		120	29	ug/Kg	50	☼	8260B	Total/NA
Toluene	560		14	6.7	ug/Kg	50	☼	8260B	Total/NA
Xylenes, Total	950		29	4.0	ug/Kg	50	☼	8260B	Total/NA
1-Methylnaphthalene	790		180	44	ug/Kg	5	☼	8270D	Total/NA
2-Methylnaphthalene	810		180	33	ug/Kg	5	☼	8270D	Total/NA
Acenaphthene	74 J		180	33	ug/Kg	5	☼	8270D	Total/NA
Acenaphthylene	84 J		180	24	ug/Kg	5	☼	8270D	Total/NA
Anthracene	260		180	30	ug/Kg	5	☼	8270D	Total/NA
Benzo[a]anthracene	1000		180	24	ug/Kg	5	☼	8270D	Total/NA
Benzo[a]pyrene	950		180	35	ug/Kg	5	☼	8270D	Total/NA
Benzo[b]fluoranthene	1400		180	39	ug/Kg	5	☼	8270D	Total/NA
Benzo[g,h,i]perylene	380		180	59	ug/Kg	5	☼	8270D	Total/NA
Benzo[k]fluoranthene	830		180	54	ug/Kg	5	☼	8270D	Total/NA
Chrysene	1100		180	50	ug/Kg	5	☼	8270D	Total/NA
Fluoranthene	1300		180	34	ug/Kg	5	☼	8270D	Total/NA
Fluorene	83 J		180	26	ug/Kg	5	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	420		180	47	ug/Kg	5	☼	8270D	Total/NA
Naphthalene	430		180	28	ug/Kg	5	☼	8270D	Total/NA
Phenanthrene	1200		180	25	ug/Kg	5	☼	8270D	Total/NA
Pyrene	2400		180	36	ug/Kg	5	☼	8270D	Total/NA
PCB-1260	16 J		18	8.9	ug/Kg	1	☼	8082	Total/NA
Arsenic	6.9		1.0	0.48	mg/Kg	1	☼	6010B	Total/NA
Barium	65		1.0	0.19	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.60		0.21	0.060	mg/Kg	1	☼	6010B	Total/NA
Chromium	9.8		1.0	0.18	mg/Kg	1	☼	6010B	Total/NA
Lead	79		0.52	0.26	mg/Kg	1	☼	6010B	Total/NA
Selenium	1.0		1.0	0.52	mg/Kg	1	☼	6010B	Total/NA
Mercury	0.092		0.018	0.0064	mg/Kg	1	☼	7471A	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: TRC Environmental Corporation.
Project/Site: Former CMC Shops Wheelhouse 232269

TestAmerica Job ID: 500-94066-1

Client Sample ID: GP-10 (8-10)

Lab Sample ID: 500-94066-22

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Naphthalene	200		200	48	ug/Kg	50		✱	8260B	Total/NA
1-Methylnaphthalene	2500		2400	590	ug/Kg	50		✱	8270D	Total/NA
2-Methylnaphthalene	910	J	2400	440	ug/Kg	50		✱	8270D	Total/NA
Acenaphthene	2400		2400	430	ug/Kg	50		✱	8270D	Total/NA
Anthracene	990	J	2400	400	ug/Kg	50		✱	8270D	Total/NA
Fluorene	3800		2400	340	ug/Kg	50		✱	8270D	Total/NA
Naphthalene	530	J	2400	370	ug/Kg	50		✱	8270D	Total/NA
Phenanthrene	1000	J	2400	330	ug/Kg	50		✱	8270D	Total/NA
Pyrene	1800	J	2400	480	ug/Kg	50		✱	8270D	Total/NA
PCB-1254	870		120	25	ug/Kg	5		✱	8082	Total/NA
Arsenic	18		1.4	0.66	mg/Kg	1		✱	6010B	Total/NA
Barium	100		1.4	0.26	mg/Kg	1		✱	6010B	Total/NA
Cadmium	0.96		0.29	0.083	mg/Kg	1		✱	6010B	Total/NA
Chromium	11		1.4	0.25	mg/Kg	1		✱	6010B	Total/NA
Lead	250		0.71	0.36	mg/Kg	1		✱	6010B	Total/NA
Selenium	1.3	J	1.4	0.71	mg/Kg	1		✱	6010B	Total/NA
Silver	0.31	J	0.71	0.17	mg/Kg	1		✱	6010B	Total/NA
Mercury	0.19		0.023	0.0080	mg/Kg	1		✱	7471A	Total/NA

Client Sample ID: GP-10 (14-16)

Lab Sample ID: 500-94066-23

No Detections.

Client Sample ID: GP-11 (4-6)

Lab Sample ID: 500-94066-24

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
1-Methylnaphthalene	67		36	8.8	ug/Kg	1		✱	8270D	Total/NA
2-Methylnaphthalene	88		36	6.6	ug/Kg	1		✱	8270D	Total/NA
Acenaphthene	51		36	6.5	ug/Kg	1		✱	8270D	Total/NA
Acenaphthylene	18	J	36	4.7	ug/Kg	1		✱	8270D	Total/NA
Anthracene	170		36	6.0	ug/Kg	1		✱	8270D	Total/NA
Benzo[a]anthracene	540		36	4.8	ug/Kg	1		✱	8270D	Total/NA
Benzo[a]pyrene	490		36	6.9	ug/Kg	1		✱	8270D	Total/NA
Benzo[b]fluoranthene	700		36	7.7	ug/Kg	1		✱	8270D	Total/NA
Benzo[g,h,i]perylene	260		36	12	ug/Kg	1		✱	8270D	Total/NA
Benzo[k]fluoranthene	280		36	11	ug/Kg	1		✱	8270D	Total/NA
Chrysene	540		36	9.8	ug/Kg	1		✱	8270D	Total/NA
Fluoranthene	870		36	6.7	ug/Kg	1		✱	8270D	Total/NA
Fluorene	56		36	5.0	ug/Kg	1		✱	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	260		36	9.3	ug/Kg	1		✱	8270D	Total/NA
Naphthalene	43		36	5.5	ug/Kg	1		✱	8270D	Total/NA
Phenanthrene	610		36	5.0	ug/Kg	1		✱	8270D	Total/NA
Pyrene	1600		36	7.1	ug/Kg	1		✱	8270D	Total/NA
Arsenic	4.2		1.0	0.47	mg/Kg	1		✱	6010B	Total/NA
Barium	52		1.0	0.19	mg/Kg	1		✱	6010B	Total/NA
Cadmium	0.35		0.20	0.059	mg/Kg	1		✱	6010B	Total/NA
Chromium	13		1.0	0.17	mg/Kg	1		✱	6010B	Total/NA
Lead	53		0.51	0.25	mg/Kg	1		✱	6010B	Total/NA
Mercury	0.061		0.018	0.0062	mg/Kg	1		✱	7471A	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: TRC Environmental Corporation.
Project/Site: Former CMC Shops Wheelhouse 232269

TestAmerica Job ID: 500-94066-1

Client Sample ID: GP-12 (4-6)

Lab Sample ID: 500-94066-25

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1-Methylnaphthalene	14	J	39	9.5	ug/Kg	1	☼	8270D	Total/NA
2-Methylnaphthalene	21	J	39	7.1	ug/Kg	1	☼	8270D	Total/NA
Acenaphthene	38	J	39	7.0	ug/Kg	1	☼	8270D	Total/NA
Acenaphthylene	75		39	5.1	ug/Kg	1	☼	8270D	Total/NA
Anthracene	140		39	6.5	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	680		39	5.2	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	590		39	7.5	ug/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	850		39	8.4	ug/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	390		39	12	ug/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	460		39	11	ug/Kg	1	☼	8270D	Total/NA
Chrysene	700		39	11	ug/Kg	1	☼	8270D	Total/NA
Dibenz(a,h)anthracene	95		39	7.5	ug/Kg	1	☼	8270D	Total/NA
Fluoranthene	1000		39	7.2	ug/Kg	1	☼	8270D	Total/NA
Fluorene	38	J	39	5.4	ug/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	340		39	10	ug/Kg	1	☼	8270D	Total/NA
Naphthalene	44		39	6.0	ug/Kg	1	☼	8270D	Total/NA
Phenanthrene	260		39	5.4	ug/Kg	1	☼	8270D	Total/NA
Pyrene	830		39	7.7	ug/Kg	1	☼	8270D	Total/NA
PCB-1254	24		19	4.1	ug/Kg	1	☼	8082	Total/NA
PCB-1260	19		19	9.3	ug/Kg	1	☼	8082	Total/NA
Arsenic	4.1		1.2	0.53	mg/Kg	1	☼	6010B	Total/NA
Barium	53		1.2	0.21	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.38		0.23	0.067	mg/Kg	1	☼	6010B	Total/NA
Chromium	17		1.2	0.20	mg/Kg	1	☼	6010B	Total/NA
Lead	37		0.58	0.29	mg/Kg	1	☼	6010B	Total/NA
Mercury	0.040		0.018	0.0062	mg/Kg	1	☼	7471A	Total/NA

Client Sample ID: GP-13 (2-4)

Lab Sample ID: 500-94066-26

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Naphthalene	210		130	32	ug/Kg	50	☼	8260B	Total/NA
Toluene	40		16	7.4	ug/Kg	50	☼	8260B	Total/NA
Xylenes, Total	76		32	4.4	ug/Kg	50	☼	8260B	Total/NA
2-Methylnaphthalene	400	J	1800	330	ug/Kg	50	☼	8270D	Total/NA
Acenaphthene	1200	J	1800	320	ug/Kg	50	☼	8270D	Total/NA
Anthracene	6400		1800	300	ug/Kg	50	☼	8270D	Total/NA
Benzo[a]anthracene	12000		1800	240	ug/Kg	50	☼	8270D	Total/NA
Benzo[a]pyrene	9200		1800	340	ug/Kg	50	☼	8270D	Total/NA
Benzo[b]fluoranthene	11000		1800	380	ug/Kg	50	☼	8270D	Total/NA
Benzo[g,h,i]perylene	5000		1800	570	ug/Kg	50	☼	8270D	Total/NA
Benzo[k]fluoranthene	6600		1800	520	ug/Kg	50	☼	8270D	Total/NA
Chrysene	11000		1800	490	ug/Kg	50	☼	8270D	Total/NA
Dibenz(a,h)anthracene	1700	J	1800	340	ug/Kg	50	☼	8270D	Total/NA
Fluoranthene	25000		1800	330	ug/Kg	50	☼	8270D	Total/NA
Fluorene	2300		1800	250	ug/Kg	50	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	4800		1800	460	ug/Kg	50	☼	8270D	Total/NA
Naphthalene	330	J	1800	270	ug/Kg	50	☼	8270D	Total/NA
Phenanthrene	19000		1800	250	ug/Kg	50	☼	8270D	Total/NA
Pyrene	23000		1800	350	ug/Kg	50	☼	8270D	Total/NA
PCB-1254	37		19	4.0	ug/Kg	1	☼	8082	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: TRC Environmental Corporation.
Project/Site: Former CMC Shops Wheelhouse 232269

TestAmerica Job ID: 500-94066-1

Client Sample ID: GP-13 (2-4) (Continued)

Lab Sample ID: 500-94066-26

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
PCB-1260	28		19	9.2	ug/Kg	1	☼	8082	Total/NA
Arsenic	7.0		1.1	0.52	mg/Kg	1	☼	6010B	Total/NA
Barium	69		1.1	0.21	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.52		0.22	0.065	mg/Kg	1	☼	6010B	Total/NA
Chromium	22		1.1	0.19	mg/Kg	1	☼	6010B	Total/NA
Lead	160		0.56	0.28	mg/Kg	1	☼	6010B	Total/NA
Silver	0.17	J	0.56	0.13	mg/Kg	1	☼	6010B	Total/NA
Mercury	0.35		0.019	0.0065	mg/Kg	1	☼	7471A	Total/NA

Client Sample ID: GP-14 (2-4)

Lab Sample ID: 500-94066-27

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,1-Trichloroethane	6300		77	16	ug/Kg	50	☼	8260B	Total/NA
1,1-Dichloroethane	150		77	14	ug/Kg	50	☼	8260B	Total/NA
1,1-Dichloroethene	260		77	24	ug/Kg	50	☼	8260B	Total/NA
Ethylbenzene	20		19	9.7	ug/Kg	50	☼	8260B	Total/NA
Toluene	58		19	8.9	ug/Kg	50	☼	8260B	Total/NA
Trichloroethene	390		39	14	ug/Kg	50	☼	8260B	Total/NA
Xylenes, Total	130		39	5.3	ug/Kg	50	☼	8260B	Total/NA
1-Methylnaphthalene	170		39	9.6	ug/Kg	1	☼	8270D	Total/NA
2-Methylnaphthalene	190		39	7.3	ug/Kg	1	☼	8270D	Total/NA
Acenaphthene	10	J	39	7.1	ug/Kg	1	☼	8270D	Total/NA
Acenaphthylene	11	J	39	5.2	ug/Kg	1	☼	8270D	Total/NA
Anthracene	43		39	6.6	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	180		39	5.3	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	190		39	7.6	ug/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	260		39	8.5	ug/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	160		39	13	ug/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	170		39	12	ug/Kg	1	☼	8270D	Total/NA
Chrysene	230		39	11	ug/Kg	1	☼	8270D	Total/NA
Fluoranthene	280		39	7.3	ug/Kg	1	☼	8270D	Total/NA
Fluorene	13	J	39	5.5	ug/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	100		39	10	ug/Kg	1	☼	8270D	Total/NA
Naphthalene	100		39	6.1	ug/Kg	1	☼	8270D	Total/NA
Phenanthrene	310		39	5.5	ug/Kg	1	☼	8270D	Total/NA
Pyrene	560		39	7.8	ug/Kg	1	☼	8270D	Total/NA
Arsenic	10		1.2	0.55	mg/Kg	1	☼	6010B	Total/NA
Barium	49		1.2	0.22	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.53		0.24	0.068	mg/Kg	1	☼	6010B	Total/NA
Chromium	10		1.2	0.20	mg/Kg	1	☼	6010B	Total/NA
Lead	120		0.59	0.29	mg/Kg	1	☼	6010B	Total/NA
Selenium	1.5		1.2	0.58	mg/Kg	1	☼	6010B	Total/NA
Mercury	0.31		0.017	0.0061	mg/Kg	1	☼	7471A	Total/NA

Client Sample ID: GP-14 (8-10)

Lab Sample ID: 500-94066-28

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,1-Trichloroethane	130		75	15	ug/Kg	50	☼	8260B	Total/NA
Benzene	24		19	5.5	ug/Kg	50	☼	8260B	Total/NA
Toluene	35		19	8.6	ug/Kg	50	☼	8260B	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: TRC Environmental Corporation.
Project/Site: Former CMC Shops Wheelhouse 232269

TestAmerica Job ID: 500-94066-1

Client Sample ID: GP-14 (8-10) (Continued)

Lab Sample ID: 500-94066-28

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
1-Methylnaphthalene	17	J	40	9.9	ug/Kg	1		✱	8270D	Total/NA
2-Methylnaphthalene	20	J	40	7.4	ug/Kg	1		✱	8270D	Total/NA
Anthracene	11	J	40	6.7	ug/Kg	1		✱	8270D	Total/NA
Benzo[a]anthracene	42		40	5.4	ug/Kg	1		✱	8270D	Total/NA
Benzo[a]pyrene	67		40	7.8	ug/Kg	1		✱	8270D	Total/NA
Benzo[b]fluoranthene	70		40	8.7	ug/Kg	1		✱	8270D	Total/NA
Benzo[g,h,i]perylene	140		40	13	ug/Kg	1		✱	8270D	Total/NA
Benzo[k]fluoranthene	31	J	40	12	ug/Kg	1		✱	8270D	Total/NA
Chrysene	65		40	11	ug/Kg	1		✱	8270D	Total/NA
Fluoranthene	46		40	7.5	ug/Kg	1		✱	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	58		40	10	ug/Kg	1		✱	8270D	Total/NA
Naphthalene	11	J	40	6.2	ug/Kg	1		✱	8270D	Total/NA
Phenanthrene	52		40	5.6	ug/Kg	1		✱	8270D	Total/NA
Pyrene	200		40	8.0	ug/Kg	1		✱	8270D	Total/NA
Arsenic	3.8		1.2	0.55	mg/Kg	1		✱	6010B	Total/NA
Barium	59		1.2	0.22	mg/Kg	1		✱	6010B	Total/NA
Cadmium	0.21	J	0.24	0.070	mg/Kg	1		✱	6010B	Total/NA
Chromium	12		1.2	0.21	mg/Kg	1		✱	6010B	Total/NA
Lead	23		0.60	0.30	mg/Kg	1		✱	6010B	Total/NA
Mercury	0.026		0.020	0.0070	mg/Kg	1		✱	7471A	Total/NA

Client Sample ID: GP-15 (4-6)

Lab Sample ID: 500-94066-29

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
1,2,4-Trimethylbenzene	400		140	15	ug/Kg	50		✱	8260B	Total/NA
Benzene	140		17	5.2	ug/Kg	50		✱	8260B	Total/NA
Ethylbenzene	150		17	8.7	ug/Kg	50		✱	8260B	Total/NA
Naphthalene	740		140	34	ug/Kg	50		✱	8260B	Total/NA
N-Propylbenzene	140		140	12	ug/Kg	50		✱	8260B	Total/NA
Toluene	570		17	8.0	ug/Kg	50		✱	8260B	Total/NA
Xylenes, Total	990		35	4.7	ug/Kg	50		✱	8260B	Total/NA
1-Methylnaphthalene	2300		380	94	ug/Kg	10		✱	8270D	Total/NA
2-Methylnaphthalene	2300		380	71	ug/Kg	10		✱	8270D	Total/NA
Anthracene	220	J	380	64	ug/Kg	10		✱	8270D	Total/NA
Benzo[a]anthracene	290	J	380	52	ug/Kg	10		✱	8270D	Total/NA
Chrysene	320	J	380	100	ug/Kg	10		✱	8270D	Total/NA
Fluoranthene	290	J	380	71	ug/Kg	10		✱	8270D	Total/NA
Naphthalene	1300		380	59	ug/Kg	10		✱	8270D	Total/NA
Phenanthrene	1600		380	54	ug/Kg	10		✱	8270D	Total/NA
Pyrene	440		380	76	ug/Kg	10		✱	8270D	Total/NA
Arsenic	6.7		1.2	0.55	mg/Kg	1		✱	6010B	Total/NA
Barium	32		1.2	0.22	mg/Kg	1		✱	6010B	Total/NA
Cadmium	0.36		0.24	0.069	mg/Kg	1		✱	6010B	Total/NA
Chromium	5.5		1.2	0.20	mg/Kg	1		✱	6010B	Total/NA
Lead	27		0.60	0.30	mg/Kg	1		✱	6010B	Total/NA
Selenium	1.4		1.2	0.59	mg/Kg	1		✱	6010B	Total/NA
Mercury	0.11		0.017	0.0060	mg/Kg	1		✱	7471A	Total/NA

Client Sample ID: GP-15 (8-10)

Lab Sample ID: 500-94066-30

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: TRC Environmental Corporation.
Project/Site: Former CMC Shops Wheelhouse 232269

TestAmerica Job ID: 500-94066-1

Client Sample ID: GP-15 (8-10) (Continued)

Lab Sample ID: 500-94066-30

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Fluoranthene	8.7	J	39	7.2	ug/Kg	1	☼	8270D	Total/NA
Pyrene	8.1	J	39	7.7	ug/Kg	1	☼	8270D	Total/NA
Arsenic	2.8		1.2	0.55	mg/Kg	1	☼	6010B	Total/NA
Barium	39		1.2	0.22	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.14	J	0.24	0.069	mg/Kg	1	☼	6010B	Total/NA
Chromium	9.0		1.2	0.21	mg/Kg	1	☼	6010B	Total/NA
Lead	18		0.60	0.30	mg/Kg	1	☼	6010B	Total/NA
Mercury	0.017	J	0.018	0.0063	mg/Kg	1	☼	7471A	Total/NA

Client Sample ID: GP-15 (14-16)

Lab Sample ID: 500-94066-31

No Detections.

Client Sample ID: GP-1

Lab Sample ID: 500-94066-32

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,2,4-Trimethylbenzene	90		1.0	0.14	ug/L	1		8260B	Total/NA
1,3,5-Trimethylbenzene	23		1.0	0.18	ug/L	1		8260B	Total/NA
Ethylbenzene	0.38	J	0.50	0.13	ug/L	1		8260B	Total/NA
Isopropylbenzene	5.4		1.0	0.14	ug/L	1		8260B	Total/NA
Naphthalene	2.2		1.0	0.16	ug/L	1		8260B	Total/NA
n-Butylbenzene	5.1		1.0	0.13	ug/L	1		8260B	Total/NA
N-Propylbenzene	8.9		1.0	0.13	ug/L	1		8260B	Total/NA
sec-Butylbenzene	4.3		1.0	0.15	ug/L	1		8260B	Total/NA
Xylenes, Total	14		1.0	0.068	ug/L	1		8260B	Total/NA
1-Methylnaphthalene	2.2		0.83	0.25	ug/L	1		8270D	Total/NA
2-Methylnaphthalene	2.1		0.42	0.054	ug/L	1		8270D	Total/NA
Acenaphthene	1.5		0.83	0.26	ug/L	1		8270D	Total/NA
Benzo[a]anthracene	0.42		0.17	0.047	ug/L	1		8270D	Total/NA
Benzo[a]pyrene	0.39		0.17	0.082	ug/L	1		8270D	Total/NA
Benzo[b]fluoranthene	0.71		0.17	0.067	ug/L	1		8270D	Total/NA
Benzo[k]fluoranthene	0.12	J	0.17	0.053	ug/L	1		8270D	Total/NA
Chrysene	0.40	J	0.42	0.057	ug/L	1		8270D	Total/NA
Fluoranthene	1.1		0.83	0.38	ug/L	1		8270D	Total/NA
Fluorene	0.51	J	0.83	0.20	ug/L	1		8270D	Total/NA
Phenanthrene	0.88		0.83	0.25	ug/L	1		8270D	Total/NA
Pyrene	0.92		0.83	0.36	ug/L	1		8270D	Total/NA
PCB-1254	4.8		0.43	0.21	ug/L	1		8082	Total/NA
Arsenic	3.4		1.0	0.44	ug/L	1		6020	Total Recoverable
Barium	120		2.5	0.84	ug/L	1		6020	Total Recoverable
Lead	0.14	J	0.50	0.14	ug/L	1		6020	Total Recoverable

Client Sample ID: GP-14

Lab Sample ID: 500-94066-33

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Methylnaphthalene	0.19	J	0.38	0.050	ug/L	1		8270D	Total/NA
Arsenic	0.95	J	1.0	0.44	ug/L	1		6020	Total Recoverable

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: TRC Environmental Corporation.
Project/Site: Former CMC Shops Wheelhouse 232269

TestAmerica Job ID: 500-94066-1

Client Sample ID: GP-14 (Continued)

Lab Sample ID: 500-94066-33

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	170		2.5	0.84	ug/L	1		6020	Total Recoverable
Chromium	0.64	J	5.0	0.61	ug/L	1		6020	Total Recoverable
Lead	0.61		0.50	0.14	ug/L	1		6020	Total Recoverable
Selenium	0.97	J	2.5	0.83	ug/L	1		6020	Total Recoverable

Client Sample ID: GP-15

Lab Sample ID: 500-94066-34

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Methylnaphthalene	0.26	J	0.40	0.052	ug/L	1		8270D	Total/NA
Benzo[a]anthracene	0.16		0.16	0.046	ug/L	1		8270D	Total/NA
Benzo[a]pyrene	0.30		0.16	0.079	ug/L	1		8270D	Total/NA
Benzo[b]fluoranthene	0.45		0.16	0.065	ug/L	1		8270D	Total/NA
Chrysene	0.21	J	0.40	0.055	ug/L	1		8270D	Total/NA
Arsenic	0.83	J	1.0	0.44	ug/L	1		6020	Total Recoverable
Barium	120		2.5	0.84	ug/L	1		6020	Total Recoverable
Lead	0.46	J	0.50	0.14	ug/L	1		6020	Total Recoverable
Selenium	2.0	J	2.5	0.83	ug/L	1		6020	Total Recoverable

Client Sample ID: MeoH Blank

Lab Sample ID: 500-94066-35

No Detections.

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Method Summary

Client: TRC Environmental Corporation.
Project/Site: Former CMC Shops Wheelhouse 232269

TestAmerica Job ID: 500-94066-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL CHI
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	TAL CHI
8082	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	TAL CHI
6010B	Metals (ICP)	SW846	TAL CHI
6020	Metals (ICP/MS)	SW846	TAL CHI
7470A	Mercury (CVAA)	SW846	TAL CHI
7471A	Mercury (CVAA)	SW846	TAL CHI
Moisture	Percent Moisture	EPA	TAL CHI

Protocol References:

EPA = US Environmental Protection Agency

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

Laboratory References:

TAL CHI = TestAmerica Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

Sample Summary

Client: TRC Environmental Corporation.
Project/Site: Former CMC Shops Wheelhouse 232269

TestAmerica Job ID: 500-94066-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-94066-1	GP-1 (2-4)	Solid	03/30/15 00:00	04/02/15 09:30
500-94066-2	GP-1 (6-8)	Solid	03/30/15 00:00	04/02/15 09:30
500-94066-3	GP-1 (14-16)	Solid	03/30/15 00:00	04/02/15 09:30
500-94066-4	GP-2 (4-6)	Solid	03/30/15 00:00	04/02/15 09:30
500-94066-5	GP-2 (8-10)	Solid	04/02/15 00:00	04/03/15 09:45
500-94066-6	GP-2 (14-16)	Solid	03/30/15 00:00	04/02/15 09:30
500-94066-7	GP-3 (2-4)	Solid	03/30/15 00:00	04/02/15 09:30
500-94066-8	GP-3 (8-10)	Solid	04/02/15 00:00	04/03/15 09:45
500-94066-9	GP-4 (2-4)	Solid	03/30/15 00:00	04/02/15 09:30
500-94066-10	GP-4 (6-8)	Solid	03/30/15 00:00	04/02/15 09:30
500-94066-11	GP-5 (2-4)	Solid	03/30/15 00:00	04/02/15 09:30
500-94066-12	GP-5 (6-8)	Solid	03/30/15 00:00	04/02/15 09:30
500-94066-13	GP-6 (4-6)	Solid	03/30/15 00:00	04/02/15 09:30
500-94066-14	GP-6 (10-12)	Solid	03/30/15 00:00	04/02/15 09:30
500-94066-15	GP-6 (14-16)	Solid	03/30/15 00:00	04/02/15 09:30
500-94066-16	GP-7 (4-6)	Solid	03/30/15 00:00	04/02/15 09:30
500-94066-17	GP-7 (10-12)	Solid	03/30/15 00:00	04/02/15 09:30
500-94066-18	GP-7 (14-16)	Solid	03/30/15 00:00	04/02/15 09:30
500-94066-19	GP-8 (4-6)	Solid	03/31/15 00:00	04/02/15 09:30
500-94066-20	GP-9 (2-4)	Solid	03/31/15 00:00	04/02/15 09:30
500-94066-21	GP-10 (2-4)	Solid	03/31/15 00:00	04/02/15 09:30
500-94066-22	GP-10 (8-10)	Solid	03/31/15 00:00	04/02/15 09:30
500-94066-23	GP-10 (14-16)	Solid	03/31/15 00:00	04/02/15 09:30
500-94066-24	GP-11 (4-6)	Solid	03/31/15 00:00	04/02/15 09:30
500-94066-25	GP-12 (4-6)	Solid	03/31/15 00:00	04/02/15 09:30
500-94066-26	GP-13 (2-4)	Solid	03/31/15 00:00	04/02/15 09:30
500-94066-27	GP-14 (2-4)	Solid	03/31/15 00:00	04/02/15 09:30
500-94066-28	GP-14 (8-10)	Solid	03/31/15 00:00	04/02/15 09:30
500-94066-29	GP-15 (4-6)	Solid	03/31/15 00:00	04/02/15 09:30
500-94066-30	GP-15 (8-10)	Solid	03/31/15 00:00	04/02/15 09:30
500-94066-31	GP-15 (14-16)	Solid	03/31/15 00:00	04/02/15 09:30
500-94066-32	GP-1	Water	04/01/15 00:00	04/02/15 09:30
500-94066-33	GP-14	Water	04/01/15 00:00	04/02/15 09:30
500-94066-34	GP-15	Water	04/01/15 00:00	04/02/15 09:30
500-94066-35	MeoH Blank	Solid	03/30/15 00:00	04/02/15 09:30

Client Sample Results

Client: TRC Environmental Corporation.
Project/Site: Former CMC Shops Wheelhouse 232269

TestAmerica Job ID: 500-94066-1

Client Sample ID: GP-1 (2-4)

Lab Sample ID: 500-94066-1

Date Collected: 03/30/15 00:00

Matrix: Solid

Date Received: 04/02/15 09:30

Percent Solids: 88.5

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<22		120	22	ug/Kg	☼	03/30/15 00:00	04/09/15 12:36	50
1,1,1-Trichloroethane	<13		62	13	ug/Kg	☼	03/30/15 00:00	04/09/15 12:36	50
1,1,2,2-Tetrachloroethane	<15		62	15	ug/Kg	☼	03/30/15 00:00	04/09/15 12:36	50
1,1,2-Trichloroethane	<17		62	17	ug/Kg	☼	03/30/15 00:00	04/09/15 12:36	50
1,1-Dichloroethane	<12		62	12	ug/Kg	☼	03/30/15 00:00	04/09/15 12:36	50
1,1-Dichloroethene	<19		62	19	ug/Kg	☼	03/30/15 00:00	04/09/15 12:36	50
1,1-Dichloropropene	<21		62	21	ug/Kg	☼	03/30/15 00:00	04/09/15 12:36	50
1,2,3-Trichlorobenzene	<22		120	22	ug/Kg	☼	03/30/15 00:00	04/09/15 12:36	50
1,2,3-Trichloropropane	<36		120	36	ug/Kg	☼	03/30/15 00:00	04/09/15 12:36	50
1,2,4-Trichlorobenzene	<24		120	24	ug/Kg	☼	03/30/15 00:00	04/09/15 12:36	50
1,2,4-Trimethylbenzene	<13		120	13	ug/Kg	☼	03/30/15 00:00	04/09/15 12:36	50
1,2-Dibromo-3-Chloropropane	<54		120	54	ug/Kg	☼	03/30/15 00:00	04/09/15 12:36	50
1,2-Dibromoethane	<20		120	20	ug/Kg	☼	03/30/15 00:00	04/09/15 12:36	50
1,2-Dichlorobenzene	<13		120	13	ug/Kg	☼	03/30/15 00:00	04/09/15 12:36	50
1,2-Dichloroethane	<18		62	18	ug/Kg	☼	03/30/15 00:00	04/09/15 12:36	50
1,2-Dichloropropane	<12		62	12	ug/Kg	☼	03/30/15 00:00	04/09/15 12:36	50
1,3,5-Trimethylbenzene	<13		120	13	ug/Kg	☼	03/30/15 00:00	04/09/15 12:36	50
1,3-Dichlorobenzene	<16		120	16	ug/Kg	☼	03/30/15 00:00	04/09/15 12:36	50
1,3-Dichloropropane	<8.4		62	8.4	ug/Kg	☼	03/30/15 00:00	04/09/15 12:36	50
1,4-Dichlorobenzene	<11		120	11	ug/Kg	☼	03/30/15 00:00	04/09/15 12:36	50
2,2-Dichloropropane	<20		62	20	ug/Kg	☼	03/30/15 00:00	04/09/15 12:36	50
2-Chlorotoluene	<13		62	13	ug/Kg	☼	03/30/15 00:00	04/09/15 12:36	50
4-Chlorotoluene	<12		62	12	ug/Kg	☼	03/30/15 00:00	04/09/15 12:36	50
Benzene	<4.6		16	4.6	ug/Kg	☼	03/30/15 00:00	04/09/15 12:36	50
Bromobenzene	<27		120	27	ug/Kg	☼	03/30/15 00:00	04/09/15 12:36	50
Bromochloromethane	<24		120	24	ug/Kg	☼	03/30/15 00:00	04/09/15 12:36	50
Bromodichloromethane	<21		120	21	ug/Kg	☼	03/30/15 00:00	04/09/15 12:36	50
Bromoform	<28		120	28	ug/Kg	☼	03/30/15 00:00	04/09/15 12:36	50
Bromomethane	<43		120	43	ug/Kg	☼	03/30/15 00:00	04/09/15 12:36	50
Carbon tetrachloride	<16		62	16	ug/Kg	☼	03/30/15 00:00	04/09/15 12:36	50
Chlorobenzene	<8.9		62	8.9	ug/Kg	☼	03/30/15 00:00	04/09/15 12:36	50
Chloroethane	<27		120	27	ug/Kg	☼	03/30/15 00:00	04/09/15 12:36	50
Chloroform	<13		62	13	ug/Kg	☼	03/30/15 00:00	04/09/15 12:36	50
Chloromethane	<29		120	29	ug/Kg	☼	03/30/15 00:00	04/09/15 12:36	50
cis-1,2-Dichloroethene	<7.7		62	7.7	ug/Kg	☼	03/30/15 00:00	04/09/15 12:36	50
cis-1,3-Dichloropropene	<11		62	11	ug/Kg	☼	03/30/15 00:00	04/09/15 12:36	50
Dibromochloromethane	<22		120	22	ug/Kg	☼	03/30/15 00:00	04/09/15 12:36	50
Dibromomethane	<30		120	30	ug/Kg	☼	03/30/15 00:00	04/09/15 12:36	50
Dichlorodifluoromethane	<32		120	32	ug/Kg	☼	03/30/15 00:00	04/09/15 12:36	50
Ethylbenzene	<7.9		16	7.9	ug/Kg	☼	03/30/15 00:00	04/09/15 12:36	50
Hexachlorobutadiene	<22		120	22	ug/Kg	☼	03/30/15 00:00	04/09/15 12:36	50
Isopropyl ether	<9.2		120	9.2	ug/Kg	☼	03/30/15 00:00	04/09/15 12:36	50
Isopropylbenzene	<16		120	16	ug/Kg	☼	03/30/15 00:00	04/09/15 12:36	50
Methyl tert-butyl ether	<27		120	27	ug/Kg	☼	03/30/15 00:00	04/09/15 12:36	50
Methylene Chloride	<43		310	43	ug/Kg	☼	03/30/15 00:00	04/09/15 12:36	50
Naphthalene	<31		120	31	ug/Kg	☼	03/30/15 00:00	04/09/15 12:36	50
n-Butylbenzene	<8.1		62	8.1	ug/Kg	☼	03/30/15 00:00	04/09/15 12:36	50
N-Propylbenzene	<11		120	11	ug/Kg	☼	03/30/15 00:00	04/09/15 12:36	50
p-Isopropyltoluene	<12		120	12	ug/Kg	☼	03/30/15 00:00	04/09/15 12:36	50

TestAmerica Chicago

Client Sample Results

Client: TRC Environmental Corporation.
Project/Site: Former CMC Shops Wheelhouse 232269

TestAmerica Job ID: 500-94066-1

Client Sample ID: GP-1 (2-4)

Lab Sample ID: 500-94066-1

Date Collected: 03/30/15 00:00

Matrix: Solid

Date Received: 04/02/15 09:30

Percent Solids: 88.5

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	<9.6		62	9.6	ug/Kg	☼	03/30/15 00:00	04/09/15 12:36	50
Styrene	<6.2		62	6.2	ug/Kg	☼	03/30/15 00:00	04/09/15 12:36	50
tert-Butylbenzene	<8.5		62	8.5	ug/Kg	☼	03/30/15 00:00	04/09/15 12:36	50
Tetrachloroethene	<10		62	10	ug/Kg	☼	03/30/15 00:00	04/09/15 12:36	50
Toluene	<7.2		16	7.2	ug/Kg	☼	03/30/15 00:00	04/09/15 12:36	50
trans-1,2-Dichloroethene	<16		62	16	ug/Kg	☼	03/30/15 00:00	04/09/15 12:36	50
trans-1,3-Dichloropropene	<13		62	13	ug/Kg	☼	03/30/15 00:00	04/09/15 12:36	50
Trichloroethene	<12		31	12	ug/Kg	☼	03/30/15 00:00	04/09/15 12:36	50
Trichlorofluoromethane	<26		120	26	ug/Kg	☼	03/30/15 00:00	04/09/15 12:36	50
Vinyl chloride	<6.5		16	6.5	ug/Kg	☼	03/30/15 00:00	04/09/15 12:36	50
Xylenes, Total	<4.3		31	4.3	ug/Kg	☼	03/30/15 00:00	04/09/15 12:36	50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	102		75 - 125	03/30/15 00:00	04/09/15 12:36	50
4-Bromofluorobenzene (Surr)	106		75 - 120	03/30/15 00:00	04/09/15 12:36	50
Dibromofluoromethane	99		75 - 120	03/30/15 00:00	04/09/15 12:36	50
Toluene-d8 (Surr)	100		75 - 120	03/30/15 00:00	04/09/15 12:36	50

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	<8.8		36	8.8	ug/Kg	☼	04/03/15 07:28	04/10/15 16:35	1
2-Methylnaphthalene	7.3	J	36	6.7	ug/Kg	☼	04/03/15 07:28	04/10/15 16:35	1
Acenaphthene	<6.5		36	6.5	ug/Kg	☼	04/03/15 07:28	04/10/15 16:35	1
Acenaphthylene	<4.8		36	4.8	ug/Kg	☼	04/03/15 07:28	04/10/15 16:35	1
Anthracene	<6.0		36	6.0	ug/Kg	☼	04/03/15 07:28	04/10/15 16:35	1
Benzo[a]anthracene	30	J	36	4.9	ug/Kg	☼	04/03/15 07:28	04/10/15 16:35	1
Benzo[a]pyrene	28	J	36	7.0	ug/Kg	☼	04/03/15 07:28	04/10/15 16:35	1
Benzo[b]fluoranthene	37		36	7.8	ug/Kg	☼	04/03/15 07:28	04/10/15 16:35	1
Benzo[g,h,i]perylene	29	J F2 F1	36	12	ug/Kg	☼	04/03/15 07:28	04/10/15 16:35	1
Benzo[k]fluoranthene	22	J	36	11	ug/Kg	☼	04/03/15 07:28	04/10/15 16:35	1
Chrysene	30	J	36	9.9	ug/Kg	☼	04/03/15 07:28	04/10/15 16:35	1
Dibenz(a,h)anthracene	<7.0		36	7.0	ug/Kg	☼	04/03/15 07:28	04/10/15 16:35	1
Fluoranthene	48	F1	36	6.7	ug/Kg	☼	04/03/15 07:28	04/10/15 16:35	1
Fluorene	<5.1		36	5.1	ug/Kg	☼	04/03/15 07:28	04/10/15 16:35	1
Indeno[1,2,3-cd]pyrene	24	J	36	9.4	ug/Kg	☼	04/03/15 07:28	04/10/15 16:35	1
Naphthalene	<5.6		36	5.6	ug/Kg	☼	04/03/15 07:28	04/10/15 16:35	1
Phenanthrene	54		36	5.0	ug/Kg	☼	04/03/15 07:28	04/10/15 16:35	1
Pyrene	44		36	7.2	ug/Kg	☼	04/03/15 07:28	04/10/15 16:35	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	74		25 - 119	04/03/15 07:28	04/10/15 16:35	1
Nitrobenzene-d5 (Surr)	69		25 - 115	04/03/15 07:28	04/10/15 16:35	1
Terphenyl-d14 (Surr)	98		36 - 134	04/03/15 07:28	04/10/15 16:35	1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<6.4		18	6.4	ug/Kg	☼	04/03/15 07:22	04/04/15 09:08	1
PCB-1221	<8.0		18	8.0	ug/Kg	☼	04/03/15 07:22	04/04/15 09:08	1
PCB-1232	<7.9		18	7.9	ug/Kg	☼	04/03/15 07:22	04/04/15 09:08	1
PCB-1242	<6.0		18	6.0	ug/Kg	☼	04/03/15 07:22	04/04/15 09:08	1

TestAmerica Chicago

Client Sample Results

Client: TRC Environmental Corporation.
Project/Site: Former CMC Shops Wheelhouse 232269

TestAmerica Job ID: 500-94066-1

Client Sample ID: GP-1 (2-4)

Lab Sample ID: 500-94066-1

Date Collected: 03/30/15 00:00

Matrix: Solid

Date Received: 04/02/15 09:30

Percent Solids: 88.5

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1248	<7.2		18	7.2	ug/Kg	☼	04/03/15 07:22	04/04/15 09:08	1
PCB-1254	<3.9		18	3.9	ug/Kg	☼	04/03/15 07:22	04/04/15 09:08	1
PCB-1260	<8.9		18	8.9	ug/Kg	☼	04/03/15 07:22	04/04/15 09:08	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	84		50 - 116				04/03/15 07:22	04/04/15 09:08	1
DCB Decachlorobiphenyl	89		48 - 142				04/03/15 07:22	04/04/15 09:08	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	5.3		1.1	0.52	mg/Kg	☼	04/06/15 16:47	04/07/15 14:57	1
Barium	25		1.1	0.21	mg/Kg	☼	04/06/15 16:47	04/07/15 14:57	1
Cadmium	0.54		0.22	0.065	mg/Kg	☼	04/06/15 16:47	04/07/15 14:57	1
Chromium	9.6		1.1	0.19	mg/Kg	☼	04/06/15 16:47	04/07/15 14:57	1
Lead	26		0.56	0.28	mg/Kg	☼	04/06/15 16:47	04/07/15 14:57	1
Selenium	<0.56		1.1	0.56	mg/Kg	☼	04/06/15 16:47	04/07/15 14:57	1
Silver	<0.13		0.56	0.13	mg/Kg	☼	04/06/15 16:47	04/07/15 14:57	1

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.028		0.017	0.0061	mg/Kg	☼	04/03/15 14:00	04/06/15 09:10	1

Client Sample ID: GP-1 (6-8)

Lab Sample ID: 500-94066-2

Date Collected: 03/30/15 00:00

Matrix: Solid

Date Received: 04/02/15 09:30

Percent Solids: 75.5

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<29		170	29	ug/Kg	☼	03/30/15 00:00	04/09/15 13:02	50
1,1,1-Trichloroethane	<17		83	17	ug/Kg	☼	03/30/15 00:00	04/09/15 13:02	50
1,1,2,2-Tetrachloroethane	<19		83	19	ug/Kg	☼	03/30/15 00:00	04/09/15 13:02	50
1,1,2-Trichloroethane	<23		83	23	ug/Kg	☼	03/30/15 00:00	04/09/15 13:02	50
1,1-Dichloroethane	<15		83	15	ug/Kg	☼	03/30/15 00:00	04/09/15 13:02	50
1,1-Dichloroethene	<25		83	25	ug/Kg	☼	03/30/15 00:00	04/09/15 13:02	50
1,1-Dichloropropene	<29		83	29	ug/Kg	☼	03/30/15 00:00	04/09/15 13:02	50
1,2,3-Trichlorobenzene	<29		170	29	ug/Kg	☼	03/30/15 00:00	04/09/15 13:02	50
1,2,3-Trichloropropane	<48		170	48	ug/Kg	☼	03/30/15 00:00	04/09/15 13:02	50
1,2,4-Trichlorobenzene	<31		170	31	ug/Kg	☼	03/30/15 00:00	04/09/15 13:02	50
1,2,4-Trimethylbenzene	1400		170	18	ug/Kg	☼	03/30/15 00:00	04/09/15 13:02	50
1,2-Dibromo-3-Chloropropane	<72		170	72	ug/Kg	☼	03/30/15 00:00	04/09/15 13:02	50
1,2-Dibromoethane	<26		170	26	ug/Kg	☼	03/30/15 00:00	04/09/15 13:02	50
1,2-Dichlorobenzene	<17		170	17	ug/Kg	☼	03/30/15 00:00	04/09/15 13:02	50
1,2-Dichloroethane	<24		83	24	ug/Kg	☼	03/30/15 00:00	04/09/15 13:02	50
1,2-Dichloropropane	<16		83	16	ug/Kg	☼	03/30/15 00:00	04/09/15 13:02	50
1,3,5-Trimethylbenzene	230		170	17	ug/Kg	☼	03/30/15 00:00	04/09/15 13:02	50
1,3-Dichlorobenzene	<21		170	21	ug/Kg	☼	03/30/15 00:00	04/09/15 13:02	50
1,3-Dichloropropane	<11		83	11	ug/Kg	☼	03/30/15 00:00	04/09/15 13:02	50
1,4-Dichlorobenzene	<14		170	14	ug/Kg	☼	03/30/15 00:00	04/09/15 13:02	50
2,2-Dichloropropane	<26		83	26	ug/Kg	☼	03/30/15 00:00	04/09/15 13:02	50
2-Chlorotoluene	<17		83	17	ug/Kg	☼	03/30/15 00:00	04/09/15 13:02	50

TestAmerica Chicago

Client Sample Results

Client: TRC Environmental Corporation.
Project/Site: Former CMC Shops Wheelhouse 232269

TestAmerica Job ID: 500-94066-1

Client Sample ID: GP-1 (6-8)

Lab Sample ID: 500-94066-2

Date Collected: 03/30/15 00:00

Matrix: Solid

Date Received: 04/02/15 09:30

Percent Solids: 75.5

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Chlorotoluene	<16		83	16	ug/Kg	☼	03/30/15 00:00	04/09/15 13:02	50
Benzene	<6.2		21	6.2	ug/Kg	☼	03/30/15 00:00	04/09/15 13:02	50
Bromobenzene	<35		170	35	ug/Kg	☼	03/30/15 00:00	04/09/15 13:02	50
Bromochloromethane	<31		170	31	ug/Kg	☼	03/30/15 00:00	04/09/15 13:02	50
Bromodichloromethane	<28		170	28	ug/Kg	☼	03/30/15 00:00	04/09/15 13:02	50
Bromoform	<37		170	37	ug/Kg	☼	03/30/15 00:00	04/09/15 13:02	50
Bromomethane	<57		170	57	ug/Kg	☼	03/30/15 00:00	04/09/15 13:02	50
Carbon tetrachloride	<21		83	21	ug/Kg	☼	03/30/15 00:00	04/09/15 13:02	50
Chlorobenzene	<12		83	12	ug/Kg	☼	03/30/15 00:00	04/09/15 13:02	50
Chloroethane	<36		170	36	ug/Kg	☼	03/30/15 00:00	04/09/15 13:02	50
Chloroform	<17		83	17	ug/Kg	☼	03/30/15 00:00	04/09/15 13:02	50
Chloromethane	<38		170	38	ug/Kg	☼	03/30/15 00:00	04/09/15 13:02	50
cis-1,2-Dichloroethene	<10		83	10	ug/Kg	☼	03/30/15 00:00	04/09/15 13:02	50
cis-1,3-Dichloropropene	<15		83	15	ug/Kg	☼	03/30/15 00:00	04/09/15 13:02	50
Dibromochloromethane	<29		170	29	ug/Kg	☼	03/30/15 00:00	04/09/15 13:02	50
Dibromomethane	<40		170	40	ug/Kg	☼	03/30/15 00:00	04/09/15 13:02	50
Dichlorodifluoromethane	<43		170	43	ug/Kg	☼	03/30/15 00:00	04/09/15 13:02	50
Ethylbenzene	<10		21	10	ug/Kg	☼	03/30/15 00:00	04/09/15 13:02	50
Hexachlorobutadiene	<29		170	29	ug/Kg	☼	03/30/15 00:00	04/09/15 13:02	50
Isopropyl ether	<12		170	12	ug/Kg	☼	03/30/15 00:00	04/09/15 13:02	50
Isopropylbenzene	<21		170	21	ug/Kg	☼	03/30/15 00:00	04/09/15 13:02	50
Methyl tert-butyl ether	<36		170	36	ug/Kg	☼	03/30/15 00:00	04/09/15 13:02	50
Methylene Chloride	<57		410	57	ug/Kg	☼	03/30/15 00:00	04/09/15 13:02	50
Naphthalene	<41		170	41	ug/Kg	☼	03/30/15 00:00	04/09/15 13:02	50
n-Butylbenzene	200		83	11	ug/Kg	☼	03/30/15 00:00	04/09/15 13:02	50
N-Propylbenzene	170		170	15	ug/Kg	☼	03/30/15 00:00	04/09/15 13:02	50
p-Isopropyltoluene	<15		170	15	ug/Kg	☼	03/30/15 00:00	04/09/15 13:02	50
sec-Butylbenzene	130		83	13	ug/Kg	☼	03/30/15 00:00	04/09/15 13:02	50
Styrene	<8.2		83	8.2	ug/Kg	☼	03/30/15 00:00	04/09/15 13:02	50
tert-Butylbenzene	<11		83	11	ug/Kg	☼	03/30/15 00:00	04/09/15 13:02	50
Tetrachloroethene	<14		83	14	ug/Kg	☼	03/30/15 00:00	04/09/15 13:02	50
Toluene	<9.5		21	9.5	ug/Kg	☼	03/30/15 00:00	04/09/15 13:02	50
trans-1,2-Dichloroethene	<21		83	21	ug/Kg	☼	03/30/15 00:00	04/09/15 13:02	50
trans-1,3-Dichloropropene	<17		83	17	ug/Kg	☼	03/30/15 00:00	04/09/15 13:02	50
Trichloroethene	<15		41	15	ug/Kg	☼	03/30/15 00:00	04/09/15 13:02	50
Trichlorofluoromethane	<34		170	34	ug/Kg	☼	03/30/15 00:00	04/09/15 13:02	50
Vinyl chloride	<8.6		21	8.6	ug/Kg	☼	03/30/15 00:00	04/09/15 13:02	50
Xylenes, Total	68		41	5.7	ug/Kg	☼	03/30/15 00:00	04/09/15 13:02	50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	103		75 - 125	03/30/15 00:00	04/09/15 13:02	50
4-Bromofluorobenzene (Surr)	100		75 - 120	03/30/15 00:00	04/09/15 13:02	50
Dibromofluoromethane	99		75 - 120	03/30/15 00:00	04/09/15 13:02	50
Toluene-d8 (Surr)	102		75 - 120	03/30/15 00:00	04/09/15 13:02	50

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	84		42	10	ug/Kg	☼	04/03/15 07:28	04/10/15 16:54	1
2-Methylnaphthalene	88		42	7.8	ug/Kg	☼	04/03/15 07:28	04/10/15 16:54	1
Acenaphthene	<7.6		42	7.6	ug/Kg	☼	04/03/15 07:28	04/10/15 16:54	1

TestAmerica Chicago

Client Sample Results

Client: TRC Environmental Corporation.
Project/Site: Former CMC Shops Wheelhouse 232269

TestAmerica Job ID: 500-94066-1

Client Sample ID: GP-1 (6-8)

Lab Sample ID: 500-94066-2

Date Collected: 03/30/15 00:00

Matrix: Solid

Date Received: 04/02/15 09:30

Percent Solids: 75.5

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthylene	<5.6		42	5.6	ug/Kg	☼	04/03/15 07:28	04/10/15 16:54	1
Anthracene	<7.1		42	7.1	ug/Kg	☼	04/03/15 07:28	04/10/15 16:54	1
Benzo[a]anthracene	<5.7		42	5.7	ug/Kg	☼	04/03/15 07:28	04/10/15 16:54	1
Benzo[a]pyrene	<8.2		42	8.2	ug/Kg	☼	04/03/15 07:28	04/10/15 16:54	1
Benzo[b]fluoranthene	<9.2		42	9.2	ug/Kg	☼	04/03/15 07:28	04/10/15 16:54	1
Benzo[g,h,i]perylene	<14		42	14	ug/Kg	☼	04/03/15 07:28	04/10/15 16:54	1
Benzo[k]fluoranthene	<12		42	12	ug/Kg	☼	04/03/15 07:28	04/10/15 16:54	1
Chrysene	<12		42	12	ug/Kg	☼	04/03/15 07:28	04/10/15 16:54	1
Dibenz[a,h]anthracene	<8.2		42	8.2	ug/Kg	☼	04/03/15 07:28	04/10/15 16:54	1
Fluoranthene	<7.9		42	7.9	ug/Kg	☼	04/03/15 07:28	04/10/15 16:54	1
Fluorene	<6.0		42	6.0	ug/Kg	☼	04/03/15 07:28	04/10/15 16:54	1
Indeno[1,2,3-cd]pyrene	<11		42	11	ug/Kg	☼	04/03/15 07:28	04/10/15 16:54	1
Naphthalene	16	J	42	6.5	ug/Kg	☼	04/03/15 07:28	04/10/15 16:54	1
Phenanthrene	<5.9		42	5.9	ug/Kg	☼	04/03/15 07:28	04/10/15 16:54	1
Pyrene	<8.4		42	8.4	ug/Kg	☼	04/03/15 07:28	04/10/15 16:54	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	53		25 - 119	04/03/15 07:28	04/10/15 16:54	1
Nitrobenzene-d5 (Surr)	43		25 - 115	04/03/15 07:28	04/10/15 16:54	1
Terphenyl-d14 (Surr)	73		36 - 134	04/03/15 07:28	04/10/15 16:54	1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<7.6		21	7.6	ug/Kg	☼	04/03/15 07:22	04/04/15 09:49	1
PCB-1221	<9.4		21	9.4	ug/Kg	☼	04/03/15 07:22	04/04/15 09:49	1
PCB-1232	<9.3		21	9.3	ug/Kg	☼	04/03/15 07:22	04/04/15 09:49	1
PCB-1242	<7.0		21	7.0	ug/Kg	☼	04/03/15 07:22	04/04/15 09:49	1
PCB-1248	<8.4		21	8.4	ug/Kg	☼	04/03/15 07:22	04/04/15 09:49	1
PCB-1254	110		21	4.6	ug/Kg	☼	04/03/15 07:22	04/04/15 09:49	1
PCB-1260	<11		21	11	ug/Kg	☼	04/03/15 07:22	04/04/15 09:49	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	89		50 - 116	04/03/15 07:22	04/04/15 09:49	1
DCB Decachlorobiphenyl	76		48 - 142	04/03/15 07:22	04/04/15 09:49	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	3.0		1.3	0.59	mg/Kg	☼	04/06/15 16:47	04/07/15 15:04	1
Barium	28		1.3	0.23	mg/Kg	☼	04/06/15 16:47	04/07/15 15:04	1
Cadmium	0.19	J	0.26	0.074	mg/Kg	☼	04/06/15 16:47	04/07/15 15:04	1
Chromium	9.2		1.3	0.22	mg/Kg	☼	04/06/15 16:47	04/07/15 15:04	1
Lead	5.9		0.64	0.32	mg/Kg	☼	04/06/15 16:47	04/07/15 15:04	1
Selenium	<0.63		1.3	0.63	mg/Kg	☼	04/06/15 16:47	04/07/15 15:04	1
Silver	<0.15		0.64	0.15	mg/Kg	☼	04/06/15 16:47	04/07/15 15:04	1

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.018	J	0.019	0.0066	mg/Kg	☼	04/03/15 14:00	04/06/15 09:13	1

TestAmerica Chicago

Client Sample Results

Client: TRC Environmental Corporation.
Project/Site: Former CMC Shops Wheelhouse 232269

TestAmerica Job ID: 500-94066-1

Client Sample ID: GP-1 (14-16)

Lab Sample ID: 500-94066-3

Date Collected: 03/30/15 00:00

Matrix: Solid

Date Received: 04/02/15 09:30

Percent Solids: 69.6

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<33		190	33	ug/Kg	☼	03/30/15 00:00	04/09/15 13:52	50
1,1,1-Trichloroethane	<19		95	19	ug/Kg	☼	03/30/15 00:00	04/09/15 13:52	50
1,1,2,2-Tetrachloroethane	<22		95	22	ug/Kg	☼	03/30/15 00:00	04/09/15 13:52	50
1,1,2-Trichloroethane	<26		95	26	ug/Kg	☼	03/30/15 00:00	04/09/15 13:52	50
1,1-Dichloroethane	<18		95	18	ug/Kg	☼	03/30/15 00:00	04/09/15 13:52	50
1,1-Dichloroethene	<29		95	29	ug/Kg	☼	03/30/15 00:00	04/09/15 13:52	50
1,1-Dichloropropene	<33		95	33	ug/Kg	☼	03/30/15 00:00	04/09/15 13:52	50
1,2,3-Trichlorobenzene	<33		190	33	ug/Kg	☼	03/30/15 00:00	04/09/15 13:52	50
1,2,3-Trichloropropane	<54		190	54	ug/Kg	☼	03/30/15 00:00	04/09/15 13:52	50
1,2,4-Trichlorobenzene	<36		190	36	ug/Kg	☼	03/30/15 00:00	04/09/15 13:52	50
1,2,4-Trimethylbenzene	<20		190	20	ug/Kg	☼	03/30/15 00:00	04/09/15 13:52	50
1,2-Dibromo-3-Chloropropane	<83		190	83	ug/Kg	☼	03/30/15 00:00	04/09/15 13:52	50
1,2-Dibromoethane	<30		190	30	ug/Kg	☼	03/30/15 00:00	04/09/15 13:52	50
1,2-Dichlorobenzene	<19		190	19	ug/Kg	☼	03/30/15 00:00	04/09/15 13:52	50
1,2-Dichloroethane	<27		95	27	ug/Kg	☼	03/30/15 00:00	04/09/15 13:52	50
1,2-Dichloropropane	<19		95	19	ug/Kg	☼	03/30/15 00:00	04/09/15 13:52	50
1,3,5-Trimethylbenzene	<20		190	20	ug/Kg	☼	03/30/15 00:00	04/09/15 13:52	50
1,3-Dichlorobenzene	<24		190	24	ug/Kg	☼	03/30/15 00:00	04/09/15 13:52	50
1,3-Dichloropropane	<13		95	13	ug/Kg	☼	03/30/15 00:00	04/09/15 13:52	50
1,4-Dichlorobenzene	<17		190	17	ug/Kg	☼	03/30/15 00:00	04/09/15 13:52	50
2,2-Dichloropropane	<30		95	30	ug/Kg	☼	03/30/15 00:00	04/09/15 13:52	50
2-Chlorotoluene	<20		95	20	ug/Kg	☼	03/30/15 00:00	04/09/15 13:52	50
4-Chlorotoluene	<19		95	19	ug/Kg	☼	03/30/15 00:00	04/09/15 13:52	50
Benzene	<7.0		24	7.0	ug/Kg	☼	03/30/15 00:00	04/09/15 13:52	50
Bromobenzene	<40		190	40	ug/Kg	☼	03/30/15 00:00	04/09/15 13:52	50
Bromochloromethane	<36		190	36	ug/Kg	☼	03/30/15 00:00	04/09/15 13:52	50
Bromodichloromethane	<32		190	32	ug/Kg	☼	03/30/15 00:00	04/09/15 13:52	50
Bromoform	<42		190	42	ug/Kg	☼	03/30/15 00:00	04/09/15 13:52	50
Bromomethane	<65		190	65	ug/Kg	☼	03/30/15 00:00	04/09/15 13:52	50
Carbon tetrachloride	<24		95	24	ug/Kg	☼	03/30/15 00:00	04/09/15 13:52	50
Chlorobenzene	<14		95	14	ug/Kg	☼	03/30/15 00:00	04/09/15 13:52	50
Chloroethane	<41		190	41	ug/Kg	☼	03/30/15 00:00	04/09/15 13:52	50
Chloroform	<19		95	19	ug/Kg	☼	03/30/15 00:00	04/09/15 13:52	50
Chloromethane	<44		190	44	ug/Kg	☼	03/30/15 00:00	04/09/15 13:52	50
cis-1,2-Dichloroethene	<12		95	12	ug/Kg	☼	03/30/15 00:00	04/09/15 13:52	50
cis-1,3-Dichloropropene	<17		95	17	ug/Kg	☼	03/30/15 00:00	04/09/15 13:52	50
Dibromochloromethane	<33		190	33	ug/Kg	☼	03/30/15 00:00	04/09/15 13:52	50
Dibromomethane	<46		190	46	ug/Kg	☼	03/30/15 00:00	04/09/15 13:52	50
Dichlorodifluoromethane	<49		190	49	ug/Kg	☼	03/30/15 00:00	04/09/15 13:52	50
Ethylbenzene	<12		24	12	ug/Kg	☼	03/30/15 00:00	04/09/15 13:52	50
Hexachlorobutadiene	<33		190	33	ug/Kg	☼	03/30/15 00:00	04/09/15 13:52	50
Isopropyl ether	<14		190	14	ug/Kg	☼	03/30/15 00:00	04/09/15 13:52	50
Isopropylbenzene	<24		190	24	ug/Kg	☼	03/30/15 00:00	04/09/15 13:52	50
Methyl tert-butyl ether	<41		190	41	ug/Kg	☼	03/30/15 00:00	04/09/15 13:52	50
Methylene Chloride	<65		470	65	ug/Kg	☼	03/30/15 00:00	04/09/15 13:52	50
Naphthalene	<47		190	47	ug/Kg	☼	03/30/15 00:00	04/09/15 13:52	50
n-Butylbenzene	<12		95	12	ug/Kg	☼	03/30/15 00:00	04/09/15 13:52	50
N-Propylbenzene	<17		190	17	ug/Kg	☼	03/30/15 00:00	04/09/15 13:52	50
p-Isopropyltoluene	<18		190	18	ug/Kg	☼	03/30/15 00:00	04/09/15 13:52	50

TestAmerica Chicago

Client Sample Results

Client: TRC Environmental Corporation.
Project/Site: Former CMC Shops Wheelhouse 232269

TestAmerica Job ID: 500-94066-1

Client Sample ID: GP-1 (14-16)

Lab Sample ID: 500-94066-3

Date Collected: 03/30/15 00:00

Matrix: Solid

Date Received: 04/02/15 09:30

Percent Solids: 69.6

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	<15		95	15	ug/Kg	☼	03/30/15 00:00	04/09/15 13:52	50
Styrene	<9.4		95	9.4	ug/Kg	☼	03/30/15 00:00	04/09/15 13:52	50
tert-Butylbenzene	<13		95	13	ug/Kg	☼	03/30/15 00:00	04/09/15 13:52	50
Tetrachloroethene	<16		95	16	ug/Kg	☼	03/30/15 00:00	04/09/15 13:52	50
Toluene	<11		24	11	ug/Kg	☼	03/30/15 00:00	04/09/15 13:52	50
trans-1,2-Dichloroethene	<24		95	24	ug/Kg	☼	03/30/15 00:00	04/09/15 13:52	50
trans-1,3-Dichloropropene	<20		95	20	ug/Kg	☼	03/30/15 00:00	04/09/15 13:52	50
Trichloroethene	<18		47	18	ug/Kg	☼	03/30/15 00:00	04/09/15 13:52	50
Trichlorofluoromethane	<39		190	39	ug/Kg	☼	03/30/15 00:00	04/09/15 13:52	50
Vinyl chloride	<9.9		24	9.9	ug/Kg	☼	03/30/15 00:00	04/09/15 13:52	50
Xylenes, Total	<6.5		47	6.5	ug/Kg	☼	03/30/15 00:00	04/09/15 13:52	50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	103		75 - 125	03/30/15 00:00	04/09/15 13:52	50
4-Bromofluorobenzene (Surr)	103		75 - 120	03/30/15 00:00	04/09/15 13:52	50
Dibromofluoromethane	99		75 - 120	03/30/15 00:00	04/09/15 13:52	50
Toluene-d8 (Surr)	99		75 - 120	03/30/15 00:00	04/09/15 13:52	50

Client Sample ID: GP-2 (4-6)

Lab Sample ID: 500-94066-4

Date Collected: 03/30/15 00:00

Matrix: Solid

Date Received: 04/02/15 09:30

Percent Solids: 70.6

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<32		180	32	ug/Kg	☼	03/30/15 00:00	04/09/15 14:18	50
1,1,1-Trichloroethane	<18		91	18	ug/Kg	☼	03/30/15 00:00	04/09/15 14:18	50
1,1,2,2-Tetrachloroethane	<21		91	21	ug/Kg	☼	03/30/15 00:00	04/09/15 14:18	50
1,1,2-Trichloroethane	<26		91	26	ug/Kg	☼	03/30/15 00:00	04/09/15 14:18	50
1,1-Dichloroethane	<17		91	17	ug/Kg	☼	03/30/15 00:00	04/09/15 14:18	50
1,1-Dichloroethene	<28		91	28	ug/Kg	☼	03/30/15 00:00	04/09/15 14:18	50
1,1-Dichloropropene	<31		91	31	ug/Kg	☼	03/30/15 00:00	04/09/15 14:18	50
1,2,3-Trichlorobenzene	<32		180	32	ug/Kg	☼	03/30/15 00:00	04/09/15 14:18	50
1,2,3-Trichloropropane	<52		180	52	ug/Kg	☼	03/30/15 00:00	04/09/15 14:18	50
1,2,4-Trichlorobenzene	<35		180	35	ug/Kg	☼	03/30/15 00:00	04/09/15 14:18	50
1,2,4-Trimethylbenzene	<19		180	19	ug/Kg	☼	03/30/15 00:00	04/09/15 14:18	50
1,2-Dibromo-3-Chloropropane	<80		180	80	ug/Kg	☼	03/30/15 00:00	04/09/15 14:18	50
1,2-Dibromoethane	<29		180	29	ug/Kg	☼	03/30/15 00:00	04/09/15 14:18	50
1,2-Dichlorobenzene	<19		180	19	ug/Kg	☼	03/30/15 00:00	04/09/15 14:18	50
1,2-Dichloroethane	<26		91	26	ug/Kg	☼	03/30/15 00:00	04/09/15 14:18	50
1,2-Dichloropropane	<18		91	18	ug/Kg	☼	03/30/15 00:00	04/09/15 14:18	50
1,3,5-Trimethylbenzene	<19		180	19	ug/Kg	☼	03/30/15 00:00	04/09/15 14:18	50
1,3-Dichlorobenzene	<23		180	23	ug/Kg	☼	03/30/15 00:00	04/09/15 14:18	50
1,3-Dichloropropane	<12		91	12	ug/Kg	☼	03/30/15 00:00	04/09/15 14:18	50
1,4-Dichlorobenzene	<16		180	16	ug/Kg	☼	03/30/15 00:00	04/09/15 14:18	50
2,2-Dichloropropane	<29		91	29	ug/Kg	☼	03/30/15 00:00	04/09/15 14:18	50
2-Chlorotoluene	<19		91	19	ug/Kg	☼	03/30/15 00:00	04/09/15 14:18	50
4-Chlorotoluene	<18		91	18	ug/Kg	☼	03/30/15 00:00	04/09/15 14:18	50
Benzene	<6.8		23	6.8	ug/Kg	☼	03/30/15 00:00	04/09/15 14:18	50
Bromobenzene	<39		180	39	ug/Kg	☼	03/30/15 00:00	04/09/15 14:18	50
Bromochloromethane	<35		180	35	ug/Kg	☼	03/30/15 00:00	04/09/15 14:18	50

TestAmerica Chicago

Client Sample Results

Client: TRC Environmental Corporation.
Project/Site: Former CMC Shops Wheelhouse 232269

TestAmerica Job ID: 500-94066-1

Client Sample ID: GP-2 (4-6)

Lab Sample ID: 500-94066-4

Date Collected: 03/30/15 00:00

Matrix: Solid

Date Received: 04/02/15 09:30

Percent Solids: 70.6

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromodichloromethane	<31		180	31	ug/Kg	☼	03/30/15 00:00	04/09/15 14:18	50
Bromoform	<40		180	40	ug/Kg	☼	03/30/15 00:00	04/09/15 14:18	50
Bromomethane	<62		180	62	ug/Kg	☼	03/30/15 00:00	04/09/15 14:18	50
Carbon tetrachloride	<23		91	23	ug/Kg	☼	03/30/15 00:00	04/09/15 14:18	50
Chlorobenzene	<13		91	13	ug/Kg	☼	03/30/15 00:00	04/09/15 14:18	50
Chloroethane	<40		180	40	ug/Kg	☼	03/30/15 00:00	04/09/15 14:18	50
Chloroform	<19		91	19	ug/Kg	☼	03/30/15 00:00	04/09/15 14:18	50
Chloromethane	<42		180	42	ug/Kg	☼	03/30/15 00:00	04/09/15 14:18	50
cis-1,2-Dichloroethene	<11		91	11	ug/Kg	☼	03/30/15 00:00	04/09/15 14:18	50
cis-1,3-Dichloropropene	<16		91	16	ug/Kg	☼	03/30/15 00:00	04/09/15 14:18	50
Dibromochloromethane	<32		180	32	ug/Kg	☼	03/30/15 00:00	04/09/15 14:18	50
Dibromomethane	<44		180	44	ug/Kg	☼	03/30/15 00:00	04/09/15 14:18	50
Dichlorodifluoromethane	<47		180	47	ug/Kg	☼	03/30/15 00:00	04/09/15 14:18	50
Ethylbenzene	<12		23	12	ug/Kg	☼	03/30/15 00:00	04/09/15 14:18	50
Hexachlorobutadiene	<32		180	32	ug/Kg	☼	03/30/15 00:00	04/09/15 14:18	50
Isopropyl ether	<13		180	13	ug/Kg	☼	03/30/15 00:00	04/09/15 14:18	50
Isopropylbenzene	<23		180	23	ug/Kg	☼	03/30/15 00:00	04/09/15 14:18	50
Methyl tert-butyl ether	<39		180	39	ug/Kg	☼	03/30/15 00:00	04/09/15 14:18	50
Methylene Chloride	<62		460	62	ug/Kg	☼	03/30/15 00:00	04/09/15 14:18	50
Naphthalene	<45		180	45	ug/Kg	☼	03/30/15 00:00	04/09/15 14:18	50
n-Butylbenzene	<12		91	12	ug/Kg	☼	03/30/15 00:00	04/09/15 14:18	50
N-Propylbenzene	<16		180	16	ug/Kg	☼	03/30/15 00:00	04/09/15 14:18	50
p-Isopropyltoluene	<17		180	17	ug/Kg	☼	03/30/15 00:00	04/09/15 14:18	50
sec-Butylbenzene	<14		91	14	ug/Kg	☼	03/30/15 00:00	04/09/15 14:18	50
Styrene	<9.0		91	9.0	ug/Kg	☼	03/30/15 00:00	04/09/15 14:18	50
tert-Butylbenzene	<12		91	12	ug/Kg	☼	03/30/15 00:00	04/09/15 14:18	50
Tetrachloroethene	<15		91	15	ug/Kg	☼	03/30/15 00:00	04/09/15 14:18	50
Toluene	<11		23	11	ug/Kg	☼	03/30/15 00:00	04/09/15 14:18	50
trans-1,2-Dichloroethene	<23		91	23	ug/Kg	☼	03/30/15 00:00	04/09/15 14:18	50
trans-1,3-Dichloropropene	<19		91	19	ug/Kg	☼	03/30/15 00:00	04/09/15 14:18	50
Trichloroethene	<17		46	17	ug/Kg	☼	03/30/15 00:00	04/09/15 14:18	50
Trichlorofluoromethane	<38		180	38	ug/Kg	☼	03/30/15 00:00	04/09/15 14:18	50
Vinyl chloride	<9.5		23	9.5	ug/Kg	☼	03/30/15 00:00	04/09/15 14:18	50
Xylenes, Total	<6.3		46	6.3	ug/Kg	☼	03/30/15 00:00	04/09/15 14:18	50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	103		75 - 125	03/30/15 00:00	04/09/15 14:18	50
4-Bromofluorobenzene (Surr)	104		75 - 120	03/30/15 00:00	04/09/15 14:18	50
Dibromofluoromethane	99		75 - 120	03/30/15 00:00	04/09/15 14:18	50
Toluene-d8 (Surr)	100		75 - 120	03/30/15 00:00	04/09/15 14:18	50

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	<11		45	11	ug/Kg	☼	04/03/15 07:28	04/08/15 12:41	1
2-Methylnaphthalene	<8.3		45	8.3	ug/Kg	☼	04/03/15 07:28	04/08/15 12:41	1
Acenaphthene	<8.2		45	8.2	ug/Kg	☼	04/03/15 07:28	04/08/15 12:41	1
Acenaphthylene	<6.0		45	6.0	ug/Kg	☼	04/03/15 07:28	04/08/15 12:41	1
Anthracene	<7.6		45	7.6	ug/Kg	☼	04/03/15 07:28	04/08/15 12:41	1
Benzo[a]anthracene	<6.1		45	6.1	ug/Kg	☼	04/03/15 07:28	04/08/15 12:41	1
Benzo[a]pyrene	<8.8		45	8.8	ug/Kg	☼	04/03/15 07:28	04/08/15 12:41	1

TestAmerica Chicago

Client Sample Results

Client: TRC Environmental Corporation.
Project/Site: Former CMC Shops Wheelhouse 232269

TestAmerica Job ID: 500-94066-1

Client Sample ID: GP-2 (4-6)

Lab Sample ID: 500-94066-4

Date Collected: 03/30/15 00:00

Matrix: Solid

Date Received: 04/02/15 09:30

Percent Solids: 70.6

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[b]fluoranthene	<9.8		45	9.8	ug/Kg	☼	04/03/15 07:28	04/08/15 12:41	1
Benzo[g,h,i]perylene	<15		45	15	ug/Kg	☼	04/03/15 07:28	04/08/15 12:41	1
Benzo[k]fluoranthene	<13		45	13	ug/Kg	☼	04/03/15 07:28	04/08/15 12:41	1
Chrysene	<12		45	12	ug/Kg	☼	04/03/15 07:28	04/08/15 12:41	1
Dibenz[a,h]anthracene	<8.8		45	8.8	ug/Kg	☼	04/03/15 07:28	04/08/15 12:41	1
Fluoranthene	<8.4		45	8.4	ug/Kg	☼	04/03/15 07:28	04/08/15 12:41	1
Fluorene	<6.4		45	6.4	ug/Kg	☼	04/03/15 07:28	04/08/15 12:41	1
Indeno[1,2,3-cd]pyrene	<12		45	12	ug/Kg	☼	04/03/15 07:28	04/08/15 12:41	1
Naphthalene	<7.0		45	7.0	ug/Kg	☼	04/03/15 07:28	04/08/15 12:41	1
Phenanthrene	<6.3		45	6.3	ug/Kg	☼	04/03/15 07:28	04/08/15 12:41	1
Pyrene	<9.0		45	9.0	ug/Kg	☼	04/03/15 07:28	04/08/15 12:41	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	53		25 - 119	04/03/15 07:28	04/08/15 12:41	1
Nitrobenzene-d5 (Surr)	39		25 - 115	04/03/15 07:28	04/08/15 12:41	1
Terphenyl-d14 (Surr)	105		36 - 134	04/03/15 07:28	04/08/15 12:41	1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<8.1		23	8.1	ug/Kg	☼	04/03/15 07:22	04/04/15 10:03	1
PCB-1221	<10		23	10	ug/Kg	☼	04/03/15 07:22	04/04/15 10:03	1
PCB-1232	<10		23	10	ug/Kg	☼	04/03/15 07:22	04/04/15 10:03	1
PCB-1242	<7.5		23	7.5	ug/Kg	☼	04/03/15 07:22	04/04/15 10:03	1
PCB-1248	<9.0		23	9.0	ug/Kg	☼	04/03/15 07:22	04/04/15 10:03	1
PCB-1254	<4.9		23	4.9	ug/Kg	☼	04/03/15 07:22	04/04/15 10:03	1
PCB-1260	<11		23	11	ug/Kg	☼	04/03/15 07:22	04/04/15 10:03	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	81		50 - 116	04/03/15 07:22	04/04/15 10:03	1
DCB Decachlorobiphenyl	69		48 - 142	04/03/15 07:22	04/04/15 10:03	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	5.5		1.4	0.65	mg/Kg	☼	04/06/15 16:47	04/07/15 15:10	1
Barium	85		1.4	0.26	mg/Kg	☼	04/06/15 16:47	04/07/15 15:10	1
Cadmium	0.56		0.28	0.081	mg/Kg	☼	04/06/15 16:47	04/07/15 15:10	1
Chromium	18		1.4	0.24	mg/Kg	☼	04/06/15 16:47	04/07/15 15:10	1
Lead	13		0.70	0.35	mg/Kg	☼	04/06/15 16:47	04/07/15 15:10	1
Selenium	<0.70		1.4	0.70	mg/Kg	☼	04/06/15 16:47	04/07/15 15:10	1
Silver	<0.16		0.70	0.16	mg/Kg	☼	04/06/15 16:47	04/07/15 15:10	1

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.045		0.023	0.0081	mg/Kg	☼	04/03/15 14:00	04/06/15 09:15	1

TestAmerica Chicago

Client Sample Results

Client: TRC Environmental Corporation.
Project/Site: Former CMC Shops Wheelhouse 232269

TestAmerica Job ID: 500-94066-1

Client Sample ID: GP-2 (8-10)

Lab Sample ID: 500-94066-5

Date Collected: 04/02/15 00:00

Matrix: Solid

Date Received: 04/03/15 09:45

Percent Solids: 83.3

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<24		140	24	ug/Kg	☼	03/02/15 00:00	04/09/15 14:44	50
1,1,1-Trichloroethane	<14		70	14	ug/Kg	☼	03/02/15 00:00	04/09/15 14:44	50
1,1,2,2-Tetrachloroethane	<16		70	16	ug/Kg	☼	03/02/15 00:00	04/09/15 14:44	50
1,1,2-Trichloroethane	<20		70	20	ug/Kg	☼	03/02/15 00:00	04/09/15 14:44	50
1,1-Dichloroethane	<13		70	13	ug/Kg	☼	03/02/15 00:00	04/09/15 14:44	50
1,1-Dichloroethene	<22		70	22	ug/Kg	☼	03/02/15 00:00	04/09/15 14:44	50
1,1-Dichloropropene	<24		70	24	ug/Kg	☼	03/02/15 00:00	04/09/15 14:44	50
1,2,3-Trichlorobenzene	<25		140	25	ug/Kg	☼	03/02/15 00:00	04/09/15 14:44	50
1,2,3-Trichloropropane	<40		140	40	ug/Kg	☼	03/02/15 00:00	04/09/15 14:44	50
1,2,4-Trichlorobenzene	<27		140	27	ug/Kg	☼	03/02/15 00:00	04/09/15 14:44	50
1,2,4-Trimethylbenzene	<15		140	15	ug/Kg	☼	03/02/15 00:00	04/09/15 14:44	50
1,2-Dibromo-3-Chloropropane	<61		140	61	ug/Kg	☼	03/02/15 00:00	04/09/15 14:44	50
1,2-Dibromoethane	<22		140	22	ug/Kg	☼	03/02/15 00:00	04/09/15 14:44	50
1,2-Dichlorobenzene	<14		140	14	ug/Kg	☼	03/02/15 00:00	04/09/15 14:44	50
1,2-Dichloroethane	<20		70	20	ug/Kg	☼	03/02/15 00:00	04/09/15 14:44	50
1,2-Dichloropropane	<14		70	14	ug/Kg	☼	03/02/15 00:00	04/09/15 14:44	50
1,3,5-Trimethylbenzene	<15		140	15	ug/Kg	☼	03/02/15 00:00	04/09/15 14:44	50
1,3-Dichlorobenzene	<18		140	18	ug/Kg	☼	03/02/15 00:00	04/09/15 14:44	50
1,3-Dichloropropane	<9.4		70	9.4	ug/Kg	☼	03/02/15 00:00	04/09/15 14:44	50
1,4-Dichlorobenzene	<12		140	12	ug/Kg	☼	03/02/15 00:00	04/09/15 14:44	50
2,2-Dichloropropane	<22		70	22	ug/Kg	☼	03/02/15 00:00	04/09/15 14:44	50
2-Chlorotoluene	<15		70	15	ug/Kg	☼	03/02/15 00:00	04/09/15 14:44	50
4-Chlorotoluene	<14		70	14	ug/Kg	☼	03/02/15 00:00	04/09/15 14:44	50
Benzene	<5.2		18	5.2	ug/Kg	☼	03/02/15 00:00	04/09/15 14:44	50
Bromobenzene	<30		140	30	ug/Kg	☼	03/02/15 00:00	04/09/15 14:44	50
Bromochloromethane	<27		140	27	ug/Kg	☼	03/02/15 00:00	04/09/15 14:44	50
Bromodichloromethane	<24		140	24	ug/Kg	☼	03/02/15 00:00	04/09/15 14:44	50
Bromoform	<31		140	31	ug/Kg	☼	03/02/15 00:00	04/09/15 14:44	50
Bromomethane	<48		140	48	ug/Kg	☼	03/02/15 00:00	04/09/15 14:44	50
Carbon tetrachloride	<18		70	18	ug/Kg	☼	03/02/15 00:00	04/09/15 14:44	50
Chlorobenzene	<10		70	10	ug/Kg	☼	03/02/15 00:00	04/09/15 14:44	50
Chloroethane	<31		140	31	ug/Kg	☼	03/02/15 00:00	04/09/15 14:44	50
Chloroform	<14		70	14	ug/Kg	☼	03/02/15 00:00	04/09/15 14:44	50
Chloromethane	<33		140	33	ug/Kg	☼	03/02/15 00:00	04/09/15 14:44	50
cis-1,2-Dichloroethene	<8.7		70	8.7	ug/Kg	☼	03/02/15 00:00	04/09/15 14:44	50
cis-1,3-Dichloropropene	<13		70	13	ug/Kg	☼	03/02/15 00:00	04/09/15 14:44	50
Dibromochloromethane	<24		140	24	ug/Kg	☼	03/02/15 00:00	04/09/15 14:44	50
Dibromomethane	<34		140	34	ug/Kg	☼	03/02/15 00:00	04/09/15 14:44	50
Dichlorodifluoromethane	<36		140	36	ug/Kg	☼	03/02/15 00:00	04/09/15 14:44	50
Ethylbenzene	<8.9		18	8.9	ug/Kg	☼	03/02/15 00:00	04/09/15 14:44	50
Hexachlorobutadiene	<24		140	24	ug/Kg	☼	03/02/15 00:00	04/09/15 14:44	50
Isopropyl ether	<10		140	10	ug/Kg	☼	03/02/15 00:00	04/09/15 14:44	50
Isopropylbenzene	<18		140	18	ug/Kg	☼	03/02/15 00:00	04/09/15 14:44	50
Methyl tert-butyl ether	<30		140	30	ug/Kg	☼	03/02/15 00:00	04/09/15 14:44	50
Methylene Chloride	<48		350	48	ug/Kg	☼	03/02/15 00:00	04/09/15 14:44	50
Naphthalene	<35		140	35	ug/Kg	☼	03/02/15 00:00	04/09/15 14:44	50
n-Butylbenzene	<9.1		70	9.1	ug/Kg	☼	03/02/15 00:00	04/09/15 14:44	50
N-Propylbenzene	<12		140	12	ug/Kg	☼	03/02/15 00:00	04/09/15 14:44	50
p-Isopropyltoluene	<13		140	13	ug/Kg	☼	03/02/15 00:00	04/09/15 14:44	50

TestAmerica Chicago

Client Sample Results

Client: TRC Environmental Corporation.
Project/Site: Former CMC Shops Wheelhouse 232269

TestAmerica Job ID: 500-94066-1

Client Sample ID: GP-2 (8-10)

Lab Sample ID: 500-94066-5

Date Collected: 04/02/15 00:00

Matrix: Solid

Date Received: 04/03/15 09:45

Percent Solids: 83.3

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	85		70	11	ug/Kg	☼	03/02/15 00:00	04/09/15 14:44	50
Styrene	<7.0		70	7.0	ug/Kg	☼	03/02/15 00:00	04/09/15 14:44	50
tert-Butylbenzene	<9.6		70	9.6	ug/Kg	☼	03/02/15 00:00	04/09/15 14:44	50
Tetrachloroethene	<12		70	12	ug/Kg	☼	03/02/15 00:00	04/09/15 14:44	50
Toluene	<8.1		18	8.1	ug/Kg	☼	03/02/15 00:00	04/09/15 14:44	50
trans-1,2-Dichloroethene	<18		70	18	ug/Kg	☼	03/02/15 00:00	04/09/15 14:44	50
trans-1,3-Dichloropropene	<15		70	15	ug/Kg	☼	03/02/15 00:00	04/09/15 14:44	50
Trichloroethene	<13		35	13	ug/Kg	☼	03/02/15 00:00	04/09/15 14:44	50
Trichlorofluoromethane	<29		140	29	ug/Kg	☼	03/02/15 00:00	04/09/15 14:44	50
Vinyl chloride	<7.3		18	7.3	ug/Kg	☼	03/02/15 00:00	04/09/15 14:44	50
Xylenes, Total	<4.8		35	4.8	ug/Kg	☼	03/02/15 00:00	04/09/15 14:44	50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	104		75 - 125	03/02/15 00:00	04/09/15 14:44	50
4-Bromofluorobenzene (Surr)	99		75 - 120	03/02/15 00:00	04/09/15 14:44	50
Dibromofluoromethane	99		75 - 120	03/02/15 00:00	04/09/15 14:44	50
Toluene-d8 (Surr)	100		75 - 120	03/02/15 00:00	04/09/15 14:44	50

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	<9.3		38	9.3	ug/Kg	☼	04/07/15 07:23	04/08/15 17:46	1
2-Methylnaphthalene	<7.0		38	7.0	ug/Kg	☼	04/07/15 07:23	04/08/15 17:46	1
Acenaphthene	40		38	6.9	ug/Kg	☼	04/07/15 07:23	04/08/15 17:46	1
Acenaphthylene	<5.0		38	5.0	ug/Kg	☼	04/07/15 07:23	04/08/15 17:46	1
Anthracene	32 J		38	6.4	ug/Kg	☼	04/07/15 07:23	04/08/15 17:46	1
Benzo[a]anthracene	<5.2		38	5.2	ug/Kg	☼	04/07/15 07:23	04/08/15 17:46	1
Benzo[a]pyrene	<7.4		38	7.4	ug/Kg	☼	04/07/15 07:23	04/08/15 17:46	1
Benzo[b]fluoranthene	<8.3		38	8.3	ug/Kg	☼	04/07/15 07:23	04/08/15 17:46	1
Benzo[g,h,i]perylene	<12		38	12	ug/Kg	☼	04/07/15 07:23	04/08/15 17:46	1
Benzo[k]fluoranthene	<11		38	11	ug/Kg	☼	04/07/15 07:23	04/08/15 17:46	1
Chrysene	<10		38	10	ug/Kg	☼	04/07/15 07:23	04/08/15 17:46	1
Dibenz[a,h]anthracene	<7.4		38	7.4	ug/Kg	☼	04/07/15 07:23	04/08/15 17:46	1
Fluoranthene	45		38	7.1	ug/Kg	☼	04/07/15 07:23	04/08/15 17:46	1
Fluorene	22 J		38	5.4	ug/Kg	☼	04/07/15 07:23	04/08/15 17:46	1
Indeno[1,2,3-cd]pyrene	<9.9		38	9.9	ug/Kg	☼	04/07/15 07:23	04/08/15 17:46	1
Naphthalene	<5.9		38	5.9	ug/Kg	☼	04/07/15 07:23	04/08/15 17:46	1
Phenanthrene	8.0 J		38	5.3	ug/Kg	☼	04/07/15 07:23	04/08/15 17:46	1
Pyrene	94		38	7.6	ug/Kg	☼	04/07/15 07:23	04/08/15 17:46	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	50		25 - 119	04/07/15 07:23	04/08/15 17:46	1
Nitrobenzene-d5 (Surr)	39		25 - 115	04/07/15 07:23	04/08/15 17:46	1
Terphenyl-d14 (Surr)	82		36 - 134	04/07/15 07:23	04/08/15 17:46	1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<6.7		19	6.7	ug/Kg	☼	04/06/15 15:45	04/07/15 10:05	1
PCB-1221	<8.4		19	8.4	ug/Kg	☼	04/06/15 15:45	04/07/15 10:05	1
PCB-1232	<8.3		19	8.3	ug/Kg	☼	04/06/15 15:45	04/07/15 10:05	1
PCB-1242	<6.2		19	6.2	ug/Kg	☼	04/06/15 15:45	04/07/15 10:05	1

TestAmerica Chicago

Client Sample Results

Client: TRC Environmental Corporation.
Project/Site: Former CMC Shops Wheelhouse 232269

TestAmerica Job ID: 500-94066-1

Client Sample ID: GP-2 (8-10)

Lab Sample ID: 500-94066-5

Date Collected: 04/02/15 00:00

Matrix: Solid

Date Received: 04/03/15 09:45

Percent Solids: 83.3

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1248	<7.5		19	7.5	ug/Kg	☼	04/06/15 15:45	04/07/15 10:05	1
PCB-1254	<4.1		19	4.1	ug/Kg	☼	04/06/15 15:45	04/07/15 10:05	1
PCB-1260	26		19	9.3	ug/Kg	☼	04/06/15 15:45	04/07/15 10:05	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	359	X	50 - 116				04/06/15 15:45	04/07/15 10:05	1
DCB Decachlorobiphenyl	49		48 - 142				04/06/15 15:45	04/07/15 10:05	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	3.0		1.1	0.52	mg/Kg	☼	04/06/15 16:47	04/07/15 15:31	1
Barium	14		1.1	0.21	mg/Kg	☼	04/06/15 16:47	04/07/15 15:31	1
Cadmium	0.27		0.23	0.066	mg/Kg	☼	04/06/15 16:47	04/07/15 15:31	1
Chromium	7.4		1.1	0.19	mg/Kg	☼	04/06/15 16:47	04/07/15 15:31	1
Lead	3.9		0.57	0.28	mg/Kg	☼	04/06/15 16:47	04/07/15 15:31	1
Selenium	<0.56		1.1	0.56	mg/Kg	☼	04/06/15 16:47	04/07/15 15:31	1
Silver	<0.13		0.57	0.13	mg/Kg	☼	04/06/15 16:47	04/07/15 15:31	1

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.014	J B	0.019	0.0067	mg/Kg	☼	04/06/15 14:00	04/07/15 09:11	1

Client Sample ID: GP-2 (14-16)

Lab Sample ID: 500-94066-6

Date Collected: 03/30/15 00:00

Matrix: Solid

Date Received: 04/02/15 09:30

Percent Solids: 72.8

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<30		170	30	ug/Kg	☼	03/30/15 00:00	04/09/15 15:11	50
1,1,1-Trichloroethane	<17		87	17	ug/Kg	☼	03/30/15 00:00	04/09/15 15:11	50
1,1,2,2-Tetrachloroethane	<20		87	20	ug/Kg	☼	03/30/15 00:00	04/09/15 15:11	50
1,1,2-Trichloroethane	<24		87	24	ug/Kg	☼	03/30/15 00:00	04/09/15 15:11	50
1,1-Dichloroethane	<16		87	16	ug/Kg	☼	03/30/15 00:00	04/09/15 15:11	50
1,1-Dichloroethene	<27		87	27	ug/Kg	☼	03/30/15 00:00	04/09/15 15:11	50
1,1-Dichloropropene	<30		87	30	ug/Kg	☼	03/30/15 00:00	04/09/15 15:11	50
1,2,3-Trichlorobenzene	<30		170	30	ug/Kg	☼	03/30/15 00:00	04/09/15 15:11	50
1,2,3-Trichloropropane	<50		170	50	ug/Kg	☼	03/30/15 00:00	04/09/15 15:11	50
1,2,4-Trichlorobenzene	<33		170	33	ug/Kg	☼	03/30/15 00:00	04/09/15 15:11	50
1,2,4-Trimethylbenzene	<18		170	18	ug/Kg	☼	03/30/15 00:00	04/09/15 15:11	50
1,2-Dibromo-3-Chloropropane	<75		170	75	ug/Kg	☼	03/30/15 00:00	04/09/15 15:11	50
1,2-Dibromoethane	<27		170	27	ug/Kg	☼	03/30/15 00:00	04/09/15 15:11	50
1,2-Dichlorobenzene	<18		170	18	ug/Kg	☼	03/30/15 00:00	04/09/15 15:11	50
1,2-Dichloroethane	<25		87	25	ug/Kg	☼	03/30/15 00:00	04/09/15 15:11	50
1,2-Dichloropropane	<17		87	17	ug/Kg	☼	03/30/15 00:00	04/09/15 15:11	50
1,3,5-Trimethylbenzene	<18		170	18	ug/Kg	☼	03/30/15 00:00	04/09/15 15:11	50
1,3-Dichlorobenzene	<22		170	22	ug/Kg	☼	03/30/15 00:00	04/09/15 15:11	50
1,3-Dichloropropane	<12		87	12	ug/Kg	☼	03/30/15 00:00	04/09/15 15:11	50
1,4-Dichlorobenzene	<15		170	15	ug/Kg	☼	03/30/15 00:00	04/09/15 15:11	50
2,2-Dichloropropane	<27		87	27	ug/Kg	☼	03/30/15 00:00	04/09/15 15:11	50
2-Chlorotoluene	<18		87	18	ug/Kg	☼	03/30/15 00:00	04/09/15 15:11	50

TestAmerica Chicago

Client Sample Results

Client: TRC Environmental Corporation.
Project/Site: Former CMC Shops Wheelhouse 232269

TestAmerica Job ID: 500-94066-1

Client Sample ID: GP-2 (14-16)

Lab Sample ID: 500-94066-6

Date Collected: 03/30/15 00:00

Matrix: Solid

Date Received: 04/02/15 09:30

Percent Solids: 72.8

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Chlorotoluene	<17		87	17	ug/Kg	☼	03/30/15 00:00	04/09/15 15:11	50
Benzene	<6.4		22	6.4	ug/Kg	☼	03/30/15 00:00	04/09/15 15:11	50
Bromobenzene	<37		170	37	ug/Kg	☼	03/30/15 00:00	04/09/15 15:11	50
Bromochloromethane	<33		170	33	ug/Kg	☼	03/30/15 00:00	04/09/15 15:11	50
Bromodichloromethane	<29		170	29	ug/Kg	☼	03/30/15 00:00	04/09/15 15:11	50
Bromoform	<38		170	38	ug/Kg	☼	03/30/15 00:00	04/09/15 15:11	50
Bromomethane	<59		170	59	ug/Kg	☼	03/30/15 00:00	04/09/15 15:11	50
Carbon tetrachloride	<22		87	22	ug/Kg	☼	03/30/15 00:00	04/09/15 15:11	50
Chlorobenzene	<12		87	12	ug/Kg	☼	03/30/15 00:00	04/09/15 15:11	50
Chloroethane	<38		170	38	ug/Kg	☼	03/30/15 00:00	04/09/15 15:11	50
Chloroform	<18		87	18	ug/Kg	☼	03/30/15 00:00	04/09/15 15:11	50
Chloromethane	<40		170	40	ug/Kg	☼	03/30/15 00:00	04/09/15 15:11	50
cis-1,2-Dichloroethene	<11		87	11	ug/Kg	☼	03/30/15 00:00	04/09/15 15:11	50
cis-1,3-Dichloropropene	<15		87	15	ug/Kg	☼	03/30/15 00:00	04/09/15 15:11	50
Dibromochloromethane	<30		170	30	ug/Kg	☼	03/30/15 00:00	04/09/15 15:11	50
Dibromomethane	<42		170	42	ug/Kg	☼	03/30/15 00:00	04/09/15 15:11	50
Dichlorodifluoromethane	<44		170	44	ug/Kg	☼	03/30/15 00:00	04/09/15 15:11	50
Ethylbenzene	<11		22	11	ug/Kg	☼	03/30/15 00:00	04/09/15 15:11	50
Hexachlorobutadiene	<30		170	30	ug/Kg	☼	03/30/15 00:00	04/09/15 15:11	50
Isopropyl ether	<13		170	13	ug/Kg	☼	03/30/15 00:00	04/09/15 15:11	50
Isopropylbenzene	<22		170	22	ug/Kg	☼	03/30/15 00:00	04/09/15 15:11	50
Methyl tert-butyl ether	<37		170	37	ug/Kg	☼	03/30/15 00:00	04/09/15 15:11	50
Methylene Chloride	<59		430	59	ug/Kg	☼	03/30/15 00:00	04/09/15 15:11	50
Naphthalene	<43		170	43	ug/Kg	☼	03/30/15 00:00	04/09/15 15:11	50
n-Butylbenzene	<11		87	11	ug/Kg	☼	03/30/15 00:00	04/09/15 15:11	50
N-Propylbenzene	<15		170	15	ug/Kg	☼	03/30/15 00:00	04/09/15 15:11	50
p-Isopropyltoluene	<16		170	16	ug/Kg	☼	03/30/15 00:00	04/09/15 15:11	50
sec-Butylbenzene	<13		87	13	ug/Kg	☼	03/30/15 00:00	04/09/15 15:11	50
Styrene	<8.6		87	8.6	ug/Kg	☼	03/30/15 00:00	04/09/15 15:11	50
tert-Butylbenzene	<12		87	12	ug/Kg	☼	03/30/15 00:00	04/09/15 15:11	50
Tetrachloroethene	<14		87	14	ug/Kg	☼	03/30/15 00:00	04/09/15 15:11	50
Toluene	<10		22	10	ug/Kg	☼	03/30/15 00:00	04/09/15 15:11	50
trans-1,2-Dichloroethene	<22		87	22	ug/Kg	☼	03/30/15 00:00	04/09/15 15:11	50
trans-1,3-Dichloropropene	<18		87	18	ug/Kg	☼	03/30/15 00:00	04/09/15 15:11	50
Trichloroethene	<16		43	16	ug/Kg	☼	03/30/15 00:00	04/09/15 15:11	50
Trichlorofluoromethane	<36		170	36	ug/Kg	☼	03/30/15 00:00	04/09/15 15:11	50
Vinyl chloride	<9.0		22	9.0	ug/Kg	☼	03/30/15 00:00	04/09/15 15:11	50
Xylenes, Total	<5.9		43	5.9	ug/Kg	☼	03/30/15 00:00	04/09/15 15:11	50
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	107		75 - 125				03/30/15 00:00	04/09/15 15:11	50
4-Bromofluorobenzene (Surr)	103		75 - 120				03/30/15 00:00	04/09/15 15:11	50
Dibromofluoromethane	101		75 - 120				03/30/15 00:00	04/09/15 15:11	50
Toluene-d8 (Surr)	101		75 - 120				03/30/15 00:00	04/09/15 15:11	50

TestAmerica Chicago

Client Sample Results

Client: TRC Environmental Corporation.
Project/Site: Former CMC Shops Wheelhouse 232269

TestAmerica Job ID: 500-94066-1

Client Sample ID: GP-3 (2-4)

Lab Sample ID: 500-94066-7

Date Collected: 03/30/15 00:00

Matrix: Solid

Date Received: 04/02/15 09:30

Percent Solids: 93.1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<20		120	20	ug/Kg	☼	03/30/15 00:00	04/09/15 15:38	50
1,1,1-Trichloroethane	<12		58	12	ug/Kg	☼	03/30/15 00:00	04/09/15 15:38	50
1,1,2,2-Tetrachloroethane	<13		58	13	ug/Kg	☼	03/30/15 00:00	04/09/15 15:38	50
1,1,2-Trichloroethane	<16		58	16	ug/Kg	☼	03/30/15 00:00	04/09/15 15:38	50
1,1-Dichloroethane	<11		58	11	ug/Kg	☼	03/30/15 00:00	04/09/15 15:38	50
1,1-Dichloroethene	<18		58	18	ug/Kg	☼	03/30/15 00:00	04/09/15 15:38	50
1,1-Dichloropropene	<20		58	20	ug/Kg	☼	03/30/15 00:00	04/09/15 15:38	50
1,2,3-Trichlorobenzene	<20		120	20	ug/Kg	☼	03/30/15 00:00	04/09/15 15:38	50
1,2,3-Trichloropropane	<33		120	33	ug/Kg	☼	03/30/15 00:00	04/09/15 15:38	50
1,2,4-Trichlorobenzene	<22		120	22	ug/Kg	☼	03/30/15 00:00	04/09/15 15:38	50
1,2,4-Trimethylbenzene	<12		120	12	ug/Kg	☼	03/30/15 00:00	04/09/15 15:38	50
1,2-Dibromo-3-Chloropropane	<50		120	50	ug/Kg	☼	03/30/15 00:00	04/09/15 15:38	50
1,2-Dibromoethane	<18		120	18	ug/Kg	☼	03/30/15 00:00	04/09/15 15:38	50
1,2-Dichlorobenzene	<12		120	12	ug/Kg	☼	03/30/15 00:00	04/09/15 15:38	50
1,2-Dichloroethane	<16		58	16	ug/Kg	☼	03/30/15 00:00	04/09/15 15:38	50
1,2-Dichloropropane	<11		58	11	ug/Kg	☼	03/30/15 00:00	04/09/15 15:38	50
1,3,5-Trimethylbenzene	<12		120	12	ug/Kg	☼	03/30/15 00:00	04/09/15 15:38	50
1,3-Dichlorobenzene	<15		120	15	ug/Kg	☼	03/30/15 00:00	04/09/15 15:38	50
1,3-Dichloropropane	<7.7		58	7.7	ug/Kg	☼	03/30/15 00:00	04/09/15 15:38	50
1,4-Dichlorobenzene	<10		120	10	ug/Kg	☼	03/30/15 00:00	04/09/15 15:38	50
2,2-Dichloropropane	<18		58	18	ug/Kg	☼	03/30/15 00:00	04/09/15 15:38	50
2-Chlorotoluene	<12		58	12	ug/Kg	☼	03/30/15 00:00	04/09/15 15:38	50
4-Chlorotoluene	<11		58	11	ug/Kg	☼	03/30/15 00:00	04/09/15 15:38	50
Benzene	<4.3		14	4.3	ug/Kg	☼	03/30/15 00:00	04/09/15 15:38	50
Bromobenzene	<25		120	25	ug/Kg	☼	03/30/15 00:00	04/09/15 15:38	50
Bromochloromethane	<22		120	22	ug/Kg	☼	03/30/15 00:00	04/09/15 15:38	50
Bromodichloromethane	<19		120	19	ug/Kg	☼	03/30/15 00:00	04/09/15 15:38	50
Bromoform	<25		120	25	ug/Kg	☼	03/30/15 00:00	04/09/15 15:38	50
Bromomethane	<39		120	39	ug/Kg	☼	03/30/15 00:00	04/09/15 15:38	50
Carbon tetrachloride	<15		58	15	ug/Kg	☼	03/30/15 00:00	04/09/15 15:38	50
Chlorobenzene	<8.2		58	8.2	ug/Kg	☼	03/30/15 00:00	04/09/15 15:38	50
Chloroethane	<25		120	25	ug/Kg	☼	03/30/15 00:00	04/09/15 15:38	50
Chloroform	<12		58	12	ug/Kg	☼	03/30/15 00:00	04/09/15 15:38	50
Chloromethane	<27		120	27	ug/Kg	☼	03/30/15 00:00	04/09/15 15:38	50
cis-1,2-Dichloroethene	<7.1		58	7.1	ug/Kg	☼	03/30/15 00:00	04/09/15 15:38	50
cis-1,3-Dichloropropene	<10		58	10	ug/Kg	☼	03/30/15 00:00	04/09/15 15:38	50
Dibromochloromethane	<20		120	20	ug/Kg	☼	03/30/15 00:00	04/09/15 15:38	50
Dibromomethane	<28		120	28	ug/Kg	☼	03/30/15 00:00	04/09/15 15:38	50
Dichlorodifluoromethane	<30		120	30	ug/Kg	☼	03/30/15 00:00	04/09/15 15:38	50
Ethylbenzene	<7.3		14	7.3	ug/Kg	☼	03/30/15 00:00	04/09/15 15:38	50
Hexachlorobutadiene	<20		120	20	ug/Kg	☼	03/30/15 00:00	04/09/15 15:38	50
Isopropyl ether	<8.5		120	8.5	ug/Kg	☼	03/30/15 00:00	04/09/15 15:38	50
Isopropylbenzene	<14		120	14	ug/Kg	☼	03/30/15 00:00	04/09/15 15:38	50
Methyl tert-butyl ether	<25		120	25	ug/Kg	☼	03/30/15 00:00	04/09/15 15:38	50
Methylene Chloride	<39		290	39	ug/Kg	☼	03/30/15 00:00	04/09/15 15:38	50
Naphthalene	<28		120	28	ug/Kg	☼	03/30/15 00:00	04/09/15 15:38	50
n-Butylbenzene	<7.4		58	7.4	ug/Kg	☼	03/30/15 00:00	04/09/15 15:38	50
N-Propylbenzene	<10		120	10	ug/Kg	☼	03/30/15 00:00	04/09/15 15:38	50
p-Isopropyltoluene	<11		120	11	ug/Kg	☼	03/30/15 00:00	04/09/15 15:38	50

TestAmerica Chicago

Client Sample Results

Client: TRC Environmental Corporation.
Project/Site: Former CMC Shops Wheelhouse 232269

TestAmerica Job ID: 500-94066-1

Client Sample ID: GP-3 (2-4)

Lab Sample ID: 500-94066-7

Date Collected: 03/30/15 00:00

Matrix: Solid

Date Received: 04/02/15 09:30

Percent Solids: 93.1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	<8.9		58	8.9	ug/Kg	☼	03/30/15 00:00	04/09/15 15:38	50
Styrene	<5.7		58	5.7	ug/Kg	☼	03/30/15 00:00	04/09/15 15:38	50
tert-Butylbenzene	<7.8		58	7.8	ug/Kg	☼	03/30/15 00:00	04/09/15 15:38	50
Tetrachloroethene	<9.6		58	9.6	ug/Kg	☼	03/30/15 00:00	04/09/15 15:38	50
Toluene	<6.6		14	6.6	ug/Kg	☼	03/30/15 00:00	04/09/15 15:38	50
trans-1,2-Dichloroethene	<14		58	14	ug/Kg	☼	03/30/15 00:00	04/09/15 15:38	50
trans-1,3-Dichloropropene	<12		58	12	ug/Kg	☼	03/30/15 00:00	04/09/15 15:38	50
Trichloroethene	<11		29	11	ug/Kg	☼	03/30/15 00:00	04/09/15 15:38	50
Trichlorofluoromethane	<24		120	24	ug/Kg	☼	03/30/15 00:00	04/09/15 15:38	50
Vinyl chloride	<6.0		14	6.0	ug/Kg	☼	03/30/15 00:00	04/09/15 15:38	50
Xylenes, Total	<3.9		29	3.9	ug/Kg	☼	03/30/15 00:00	04/09/15 15:38	50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	107		75 - 125	03/30/15 00:00	04/09/15 15:38	50
4-Bromofluorobenzene (Surr)	108		75 - 120	03/30/15 00:00	04/09/15 15:38	50
Dibromofluoromethane	100		75 - 120	03/30/15 00:00	04/09/15 15:38	50
Toluene-d8 (Surr)	100		75 - 120	03/30/15 00:00	04/09/15 15:38	50

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	<8.7		35	8.7	ug/Kg	☼	04/03/15 07:28	04/08/15 13:03	1
2-Methylnaphthalene	<6.5		35	6.5	ug/Kg	☼	04/03/15 07:28	04/08/15 13:03	1
Acenaphthene	<6.4		35	6.4	ug/Kg	☼	04/03/15 07:28	04/08/15 13:03	1
Acenaphthylene	<4.7		35	4.7	ug/Kg	☼	04/03/15 07:28	04/08/15 13:03	1
Anthracene	<5.9		35	5.9	ug/Kg	☼	04/03/15 07:28	04/08/15 13:03	1
Benzo[a]anthracene	<4.8		35	4.8	ug/Kg	☼	04/03/15 07:28	04/08/15 13:03	1
Benzo[a]pyrene	<6.9		35	6.9	ug/Kg	☼	04/03/15 07:28	04/08/15 13:03	1
Benzo[b]fluoranthene	<7.7		35	7.7	ug/Kg	☼	04/03/15 07:28	04/08/15 13:03	1
Benzo[g,h,i]perylene	<11		35	11	ug/Kg	☼	04/03/15 07:28	04/08/15 13:03	1
Benzo[k]fluoranthene	<10		35	10	ug/Kg	☼	04/03/15 07:28	04/08/15 13:03	1
Chrysene	<9.7		35	9.7	ug/Kg	☼	04/03/15 07:28	04/08/15 13:03	1
Dibenz(a,h)anthracene	<6.9		35	6.9	ug/Kg	☼	04/03/15 07:28	04/08/15 13:03	1
Fluoranthene	<6.6		35	6.6	ug/Kg	☼	04/03/15 07:28	04/08/15 13:03	1
Fluorene	<5.0		35	5.0	ug/Kg	☼	04/03/15 07:28	04/08/15 13:03	1
Indeno[1,2,3-cd]pyrene	<9.2		35	9.2	ug/Kg	☼	04/03/15 07:28	04/08/15 13:03	1
Naphthalene	<5.5		35	5.5	ug/Kg	☼	04/03/15 07:28	04/08/15 13:03	1
Phenanthrene	<5.0		35	5.0	ug/Kg	☼	04/03/15 07:28	04/08/15 13:03	1
Pyrene	<7.1		35	7.1	ug/Kg	☼	04/03/15 07:28	04/08/15 13:03	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	61		25 - 119	04/03/15 07:28	04/08/15 13:03	1
Nitrobenzene-d5 (Surr)	50		25 - 115	04/03/15 07:28	04/08/15 13:03	1
Terphenyl-d14 (Surr)	133		36 - 134	04/03/15 07:28	04/08/15 13:03	1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<6.0		17	6.0	ug/Kg	☼	04/03/15 07:22	04/04/15 10:16	1
PCB-1221	<7.5		17	7.5	ug/Kg	☼	04/03/15 07:22	04/04/15 10:16	1
PCB-1232	<7.4		17	7.4	ug/Kg	☼	04/03/15 07:22	04/04/15 10:16	1
PCB-1242	<5.6		17	5.6	ug/Kg	☼	04/03/15 07:22	04/04/15 10:16	1

TestAmerica Chicago

Client Sample Results

Client: TRC Environmental Corporation.
Project/Site: Former CMC Shops Wheelhouse 232269

TestAmerica Job ID: 500-94066-1

Client Sample ID: GP-3 (2-4)

Date Collected: 03/30/15 00:00

Date Received: 04/02/15 09:30

Lab Sample ID: 500-94066-7

Matrix: Solid

Percent Solids: 93.1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1248	<6.7		17	6.7	ug/Kg	☼	04/03/15 07:22	04/04/15 10:16	1
PCB-1254	<3.7		17	3.7	ug/Kg	☼	04/03/15 07:22	04/04/15 10:16	1
PCB-1260	<8.3		17	8.3	ug/Kg	☼	04/03/15 07:22	04/04/15 10:16	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	87		50 - 116				04/03/15 07:22	04/04/15 10:16	1
DCB Decachlorobiphenyl	93		48 - 142				04/03/15 07:22	04/04/15 10:16	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	4.7		0.92	0.43	mg/Kg	☼	04/06/15 16:47	04/07/15 15:37	1
Barium	19		0.92	0.17	mg/Kg	☼	04/06/15 16:47	04/07/15 15:37	1
Cadmium	0.45		0.18	0.053	mg/Kg	☼	04/06/15 16:47	04/07/15 15:37	1
Chromium	9.8		0.92	0.16	mg/Kg	☼	04/06/15 16:47	04/07/15 15:37	1
Lead	8.5		0.46	0.23	mg/Kg	☼	04/06/15 16:47	04/07/15 15:37	1
Selenium	<0.46		0.92	0.46	mg/Kg	☼	04/06/15 16:47	04/07/15 15:37	1
Silver	<0.11		0.46	0.11	mg/Kg	☼	04/06/15 16:47	04/07/15 15:37	1

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.0072	J	0.017	0.0058	mg/Kg	☼	04/03/15 14:00	04/06/15 09:17	1

Client Sample ID: GP-3 (8-10)

Date Collected: 04/02/15 00:00

Date Received: 04/03/15 09:45

Lab Sample ID: 500-94066-8

Matrix: Solid

Percent Solids: 80.5

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<26		150	26	ug/Kg	☼	03/02/15 00:00	04/09/15 16:05	50
1,1,1-Trichloroethane	<15		75	15	ug/Kg	☼	03/02/15 00:00	04/09/15 16:05	50
1,1,2,2-Tetrachloroethane	<18		75	18	ug/Kg	☼	03/02/15 00:00	04/09/15 16:05	50
1,1,2-Trichloroethane	<21		75	21	ug/Kg	☼	03/02/15 00:00	04/09/15 16:05	50
1,1-Dichloroethane	<14		75	14	ug/Kg	☼	03/02/15 00:00	04/09/15 16:05	50
1,1-Dichloroethene	<23		75	23	ug/Kg	☼	03/02/15 00:00	04/09/15 16:05	50
1,1-Dichloropropene	<26		75	26	ug/Kg	☼	03/02/15 00:00	04/09/15 16:05	50
1,2,3-Trichlorobenzene	<26		150	26	ug/Kg	☼	03/02/15 00:00	04/09/15 16:05	50
1,2,3-Trichloropropane	<43		150	43	ug/Kg	☼	03/02/15 00:00	04/09/15 16:05	50
1,2,4-Trichlorobenzene	<28		150	28	ug/Kg	☼	03/02/15 00:00	04/09/15 16:05	50
1,2,4-Trimethylbenzene	<16		150	16	ug/Kg	☼	03/02/15 00:00	04/09/15 16:05	50
1,2-Dibromo-3-Chloropropane	<65		150	65	ug/Kg	☼	03/02/15 00:00	04/09/15 16:05	50
1,2-Dibromoethane	<24		150	24	ug/Kg	☼	03/02/15 00:00	04/09/15 16:05	50
1,2-Dichlorobenzene	<15		150	15	ug/Kg	☼	03/02/15 00:00	04/09/15 16:05	50
1,2-Dichloroethane	<21		75	21	ug/Kg	☼	03/02/15 00:00	04/09/15 16:05	50
1,2-Dichloropropane	<15		75	15	ug/Kg	☼	03/02/15 00:00	04/09/15 16:05	50
1,3,5-Trimethylbenzene	<15		150	15	ug/Kg	☼	03/02/15 00:00	04/09/15 16:05	50
1,3-Dichlorobenzene	<19		150	19	ug/Kg	☼	03/02/15 00:00	04/09/15 16:05	50
1,3-Dichloropropane	<10		75	10	ug/Kg	☼	03/02/15 00:00	04/09/15 16:05	50
1,4-Dichlorobenzene	<13		150	13	ug/Kg	☼	03/02/15 00:00	04/09/15 16:05	50
2,2-Dichloropropane	<24		75	24	ug/Kg	☼	03/02/15 00:00	04/09/15 16:05	50
2-Chlorotoluene	<16		75	16	ug/Kg	☼	03/02/15 00:00	04/09/15 16:05	50

TestAmerica Chicago

Client Sample Results

Client: TRC Environmental Corporation.
Project/Site: Former CMC Shops Wheelhouse 232269

TestAmerica Job ID: 500-94066-1

Client Sample ID: GP-3 (8-10)

Lab Sample ID: 500-94066-8

Date Collected: 04/02/15 00:00

Matrix: Solid

Date Received: 04/03/15 09:45

Percent Solids: 80.5

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Chlorotoluene	<15		75	15	ug/Kg	☼	03/02/15 00:00	04/09/15 16:05	50
Benzene	<5.6		19	5.6	ug/Kg	☼	03/02/15 00:00	04/09/15 16:05	50
Bromobenzene	<32		150	32	ug/Kg	☼	03/02/15 00:00	04/09/15 16:05	50
Bromochloromethane	<28		150	28	ug/Kg	☼	03/02/15 00:00	04/09/15 16:05	50
Bromodichloromethane	<25		150	25	ug/Kg	☼	03/02/15 00:00	04/09/15 16:05	50
Bromoform	<33		150	33	ug/Kg	☼	03/02/15 00:00	04/09/15 16:05	50
Bromomethane	<51		150	51	ug/Kg	☼	03/02/15 00:00	04/09/15 16:05	50
Carbon tetrachloride	<19		75	19	ug/Kg	☼	03/02/15 00:00	04/09/15 16:05	50
Chlorobenzene	<11		75	11	ug/Kg	☼	03/02/15 00:00	04/09/15 16:05	50
Chloroethane	<33		150	33	ug/Kg	☼	03/02/15 00:00	04/09/15 16:05	50
Chloroform	<15		75	15	ug/Kg	☼	03/02/15 00:00	04/09/15 16:05	50
Chloromethane	<35		150	35	ug/Kg	☼	03/02/15 00:00	04/09/15 16:05	50
cis-1,2-Dichloroethene	<9.2		75	9.2	ug/Kg	☼	03/02/15 00:00	04/09/15 16:05	50
cis-1,3-Dichloropropene	<13		75	13	ug/Kg	☼	03/02/15 00:00	04/09/15 16:05	50
Dibromochloromethane	<26		150	26	ug/Kg	☼	03/02/15 00:00	04/09/15 16:05	50
Dibromomethane	<36		150	36	ug/Kg	☼	03/02/15 00:00	04/09/15 16:05	50
Dichlorodifluoromethane	<38		150	38	ug/Kg	☼	03/02/15 00:00	04/09/15 16:05	50
Ethylbenzene	<9.4		19	9.4	ug/Kg	☼	03/02/15 00:00	04/09/15 16:05	50
Hexachlorobutadiene	<26		150	26	ug/Kg	☼	03/02/15 00:00	04/09/15 16:05	50
Isopropyl ether	<11		150	11	ug/Kg	☼	03/02/15 00:00	04/09/15 16:05	50
Isopropylbenzene	<19		150	19	ug/Kg	☼	03/02/15 00:00	04/09/15 16:05	50
Methyl tert-butyl ether	<32		150	32	ug/Kg	☼	03/02/15 00:00	04/09/15 16:05	50
Methylene Chloride	<51		370	51	ug/Kg	☼	03/02/15 00:00	04/09/15 16:05	50
Naphthalene	<37		150	37	ug/Kg	☼	03/02/15 00:00	04/09/15 16:05	50
n-Butylbenzene	<9.7		75	9.7	ug/Kg	☼	03/02/15 00:00	04/09/15 16:05	50
N-Propylbenzene	<13		150	13	ug/Kg	☼	03/02/15 00:00	04/09/15 16:05	50
p-Isopropyltoluene	<14		150	14	ug/Kg	☼	03/02/15 00:00	04/09/15 16:05	50
sec-Butylbenzene	<12		75	12	ug/Kg	☼	03/02/15 00:00	04/09/15 16:05	50
Styrene	<7.4		75	7.4	ug/Kg	☼	03/02/15 00:00	04/09/15 16:05	50
tert-Butylbenzene	<10		75	10	ug/Kg	☼	03/02/15 00:00	04/09/15 16:05	50
Tetrachloroethene	<13		75	13	ug/Kg	☼	03/02/15 00:00	04/09/15 16:05	50
Toluene	<8.6		19	8.6	ug/Kg	☼	03/02/15 00:00	04/09/15 16:05	50
trans-1,2-Dichloroethene	<19		75	19	ug/Kg	☼	03/02/15 00:00	04/09/15 16:05	50
trans-1,3-Dichloropropene	<16		75	16	ug/Kg	☼	03/02/15 00:00	04/09/15 16:05	50
Trichloroethene	<14		37	14	ug/Kg	☼	03/02/15 00:00	04/09/15 16:05	50
Trichlorofluoromethane	<31		150	31	ug/Kg	☼	03/02/15 00:00	04/09/15 16:05	50
Vinyl chloride	<7.8		19	7.8	ug/Kg	☼	03/02/15 00:00	04/09/15 16:05	50
Xylenes, Total	<5.1		37	5.1	ug/Kg	☼	03/02/15 00:00	04/09/15 16:05	50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	106		75 - 125	03/02/15 00:00	04/09/15 16:05	50
4-Bromofluorobenzene (Surr)	104		75 - 120	03/02/15 00:00	04/09/15 16:05	50
Dibromofluoromethane	101		75 - 120	03/02/15 00:00	04/09/15 16:05	50
Toluene-d8 (Surr)	99		75 - 120	03/02/15 00:00	04/09/15 16:05	50

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	470		40	7.2	ug/Kg	☼	04/07/15 07:23	04/08/15 18:08	1
Acenaphthylene	140		40	5.3	ug/Kg	☼	04/07/15 07:23	04/08/15 18:08	1
Anthracene	280		40	6.7	ug/Kg	☼	04/07/15 07:23	04/08/15 18:08	1

TestAmerica Chicago

Client Sample Results

Client: TRC Environmental Corporation.
Project/Site: Former CMC Shops Wheelhouse 232269

TestAmerica Job ID: 500-94066-1

Client Sample ID: GP-3 (8-10)

Lab Sample ID: 500-94066-8

Date Collected: 04/02/15 00:00

Matrix: Solid

Date Received: 04/03/15 09:45

Percent Solids: 80.5

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]anthracene	<5.4		40	5.4	ug/Kg	☼	04/07/15 07:23	04/08/15 18:08	1
Benzo[a]pyrene	<7.8		40	7.8	ug/Kg	☼	04/07/15 07:23	04/08/15 18:08	1
Benzo[b]fluoranthene	<8.7		40	8.7	ug/Kg	☼	04/07/15 07:23	04/08/15 18:08	1
Benzo[g,h,i]perylene	<13		40	13	ug/Kg	☼	04/07/15 07:23	04/08/15 18:08	1
Benzo[k]fluoranthene	<12		40	12	ug/Kg	☼	04/07/15 07:23	04/08/15 18:08	1
Chrysene	25	J	40	11	ug/Kg	☼	04/07/15 07:23	04/08/15 18:08	1
Dibenz[a,h]anthracene	<7.8		40	7.8	ug/Kg	☼	04/07/15 07:23	04/08/15 18:08	1
Fluoranthene	13	J	40	7.4	ug/Kg	☼	04/07/15 07:23	04/08/15 18:08	1
Fluorene	700		40	5.6	ug/Kg	☼	04/07/15 07:23	04/08/15 18:08	1
Indeno[1,2,3-cd]pyrene	<10		40	10	ug/Kg	☼	04/07/15 07:23	04/08/15 18:08	1
Naphthalene	180		40	6.2	ug/Kg	☼	04/07/15 07:23	04/08/15 18:08	1
Phenanthrene	840		40	5.6	ug/Kg	☼	04/07/15 07:23	04/08/15 18:08	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	51		25 - 119	04/07/15 07:23	04/08/15 18:08	1
Nitrobenzene-d5 (Surr)	32		25 - 115	04/07/15 07:23	04/08/15 18:08	1
Terphenyl-d14 (Surr)	106		36 - 134	04/07/15 07:23	04/08/15 18:08	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	5200		400	98	ug/Kg	☼	04/07/15 07:23	04/10/15 20:08	10
2-Methylnaphthalene	4100		400	74	ug/Kg	☼	04/07/15 07:23	04/10/15 20:08	10
Pyrene	160	J	400	80	ug/Kg	☼	04/07/15 07:23	04/10/15 20:08	10

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<7.1		20	7.1	ug/Kg	☼	04/06/15 15:45	04/07/15 10:19	1
PCB-1221	<8.8		20	8.8	ug/Kg	☼	04/06/15 15:45	04/07/15 10:19	1
PCB-1232	<8.8		20	8.8	ug/Kg	☼	04/06/15 15:45	04/07/15 10:19	1
PCB-1242	<6.6		20	6.6	ug/Kg	☼	04/06/15 15:45	04/07/15 10:19	1
PCB-1248	<7.9		20	7.9	ug/Kg	☼	04/06/15 15:45	04/07/15 10:19	1
PCB-1254	<4.3		20	4.3	ug/Kg	☼	04/06/15 15:45	04/07/15 10:19	1
PCB-1260	<9.9		20	9.9	ug/Kg	☼	04/06/15 15:45	04/07/15 10:19	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	44	X	50 - 116	04/06/15 15:45	04/07/15 10:19	1
DCB Decachlorobiphenyl	63		48 - 142	04/06/15 15:45	04/07/15 10:19	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	1.8		1.2	0.56	mg/Kg	☼	04/06/15 16:47	04/07/15 15:44	1
Barium	48		1.2	0.22	mg/Kg	☼	04/06/15 16:47	04/07/15 15:44	1
Cadmium	0.19	J	0.24	0.070	mg/Kg	☼	04/06/15 16:47	04/07/15 15:44	1
Chromium	11		1.2	0.21	mg/Kg	☼	04/06/15 16:47	04/07/15 15:44	1
Lead	6.2		0.61	0.30	mg/Kg	☼	04/06/15 16:47	04/07/15 15:44	1
Selenium	<0.60		1.2	0.60	mg/Kg	☼	04/06/15 16:47	04/07/15 15:44	1
Silver	<0.14		0.61	0.14	mg/Kg	☼	04/06/15 16:47	04/07/15 15:44	1

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.018	B	0.018	0.0063	mg/Kg	☼	04/06/15 14:00	04/07/15 09:13	1

TestAmerica Chicago

Client Sample Results

Client: TRC Environmental Corporation.
Project/Site: Former CMC Shops Wheelhouse 232269

TestAmerica Job ID: 500-94066-1

Client Sample ID: GP-4 (2-4)

Lab Sample ID: 500-94066-9

Date Collected: 03/30/15 00:00

Matrix: Solid

Date Received: 04/02/15 09:30

Percent Solids: 93.0

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<20		110	20	ug/Kg	☼	03/30/15 00:00	04/09/15 16:32	50
1,1,1-Trichloroethane	110		57	12	ug/Kg	☼	03/30/15 00:00	04/09/15 16:32	50
1,1,2,2-Tetrachloroethane	<13		57	13	ug/Kg	☼	03/30/15 00:00	04/09/15 16:32	50
1,1,2-Trichloroethane	<16		57	16	ug/Kg	☼	03/30/15 00:00	04/09/15 16:32	50
1,1-Dichloroethane	<11		57	11	ug/Kg	☼	03/30/15 00:00	04/09/15 16:32	50
1,1-Dichloroethene	<18		57	18	ug/Kg	☼	03/30/15 00:00	04/09/15 16:32	50
1,1-Dichloropropene	<20		57	20	ug/Kg	☼	03/30/15 00:00	04/09/15 16:32	50
1,2,3-Trichlorobenzene	<20		110	20	ug/Kg	☼	03/30/15 00:00	04/09/15 16:32	50
1,2,3-Trichloropropane	<33		110	33	ug/Kg	☼	03/30/15 00:00	04/09/15 16:32	50
1,2,4-Trichlorobenzene	<22		110	22	ug/Kg	☼	03/30/15 00:00	04/09/15 16:32	50
1,2,4-Trimethylbenzene	<12		110	12	ug/Kg	☼	03/30/15 00:00	04/09/15 16:32	50
1,2-Dibromo-3-Chloropropane	<50		110	50	ug/Kg	☼	03/30/15 00:00	04/09/15 16:32	50
1,2-Dibromoethane	<18		110	18	ug/Kg	☼	03/30/15 00:00	04/09/15 16:32	50
1,2-Dichlorobenzene	<12		110	12	ug/Kg	☼	03/30/15 00:00	04/09/15 16:32	50
1,2-Dichloroethane	<16		57	16	ug/Kg	☼	03/30/15 00:00	04/09/15 16:32	50
1,2-Dichloropropane	<11		57	11	ug/Kg	☼	03/30/15 00:00	04/09/15 16:32	50
1,3,5-Trimethylbenzene	<12		110	12	ug/Kg	☼	03/30/15 00:00	04/09/15 16:32	50
1,3-Dichlorobenzene	<15		110	15	ug/Kg	☼	03/30/15 00:00	04/09/15 16:32	50
1,3-Dichloropropane	<7.7		57	7.7	ug/Kg	☼	03/30/15 00:00	04/09/15 16:32	50
1,4-Dichlorobenzene	<10		110	10	ug/Kg	☼	03/30/15 00:00	04/09/15 16:32	50
2,2-Dichloropropane	<18		57	18	ug/Kg	☼	03/30/15 00:00	04/09/15 16:32	50
2-Chlorotoluene	<12		57	12	ug/Kg	☼	03/30/15 00:00	04/09/15 16:32	50
4-Chlorotoluene	<11		57	11	ug/Kg	☼	03/30/15 00:00	04/09/15 16:32	50
Benzene	<4.3		14	4.3	ug/Kg	☼	03/30/15 00:00	04/09/15 16:32	50
Bromobenzene	<24		110	24	ug/Kg	☼	03/30/15 00:00	04/09/15 16:32	50
Bromochloromethane	<22		110	22	ug/Kg	☼	03/30/15 00:00	04/09/15 16:32	50
Bromodichloromethane	<19		110	19	ug/Kg	☼	03/30/15 00:00	04/09/15 16:32	50
Bromoform	<25		110	25	ug/Kg	☼	03/30/15 00:00	04/09/15 16:32	50
Bromomethane	<39		110	39	ug/Kg	☼	03/30/15 00:00	04/09/15 16:32	50
Carbon tetrachloride	<15		57	15	ug/Kg	☼	03/30/15 00:00	04/09/15 16:32	50
Chlorobenzene	<8.2		57	8.2	ug/Kg	☼	03/30/15 00:00	04/09/15 16:32	50
Chloroethane	<25		110	25	ug/Kg	☼	03/30/15 00:00	04/09/15 16:32	50
Chloroform	<12		57	12	ug/Kg	☼	03/30/15 00:00	04/09/15 16:32	50
Chloromethane	<27		110	27	ug/Kg	☼	03/30/15 00:00	04/09/15 16:32	50
cis-1,2-Dichloroethene	<7.1		57	7.1	ug/Kg	☼	03/30/15 00:00	04/09/15 16:32	50
cis-1,3-Dichloropropene	<10		57	10	ug/Kg	☼	03/30/15 00:00	04/09/15 16:32	50
Dibromochloromethane	<20		110	20	ug/Kg	☼	03/30/15 00:00	04/09/15 16:32	50
Dibromomethane	<28		110	28	ug/Kg	☼	03/30/15 00:00	04/09/15 16:32	50
Dichlorodifluoromethane	<29		110	29	ug/Kg	☼	03/30/15 00:00	04/09/15 16:32	50
Ethylbenzene	<7.2		14	7.2	ug/Kg	☼	03/30/15 00:00	04/09/15 16:32	50
Hexachlorobutadiene	<20		110	20	ug/Kg	☼	03/30/15 00:00	04/09/15 16:32	50
Isopropyl ether	<8.4		110	8.4	ug/Kg	☼	03/30/15 00:00	04/09/15 16:32	50
Isopropylbenzene	<14		110	14	ug/Kg	☼	03/30/15 00:00	04/09/15 16:32	50
Methyl tert-butyl ether	<25		110	25	ug/Kg	☼	03/30/15 00:00	04/09/15 16:32	50
Methylene Chloride	<39		290	39	ug/Kg	☼	03/30/15 00:00	04/09/15 16:32	50
Naphthalene	<28		110	28	ug/Kg	☼	03/30/15 00:00	04/09/15 16:32	50
n-Butylbenzene	<7.4		57	7.4	ug/Kg	☼	03/30/15 00:00	04/09/15 16:32	50
N-Propylbenzene	<10		110	10	ug/Kg	☼	03/30/15 00:00	04/09/15 16:32	50
p-Isopropyltoluene	<11		110	11	ug/Kg	☼	03/30/15 00:00	04/09/15 16:32	50

TestAmerica Chicago

Client Sample Results

Client: TRC Environmental Corporation.
Project/Site: Former CMC Shops Wheelhouse 232269

TestAmerica Job ID: 500-94066-1

Client Sample ID: GP-4 (2-4)

Lab Sample ID: 500-94066-9

Date Collected: 03/30/15 00:00

Matrix: Solid

Date Received: 04/02/15 09:30

Percent Solids: 93.0

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	<8.8		57	8.8	ug/Kg	☼	03/30/15 00:00	04/09/15 16:32	50
Styrene	<5.7		57	5.7	ug/Kg	☼	03/30/15 00:00	04/09/15 16:32	50
tert-Butylbenzene	<7.8		57	7.8	ug/Kg	☼	03/30/15 00:00	04/09/15 16:32	50
Tetrachloroethene	<9.6		57	9.6	ug/Kg	☼	03/30/15 00:00	04/09/15 16:32	50
Toluene	<6.6		14	6.6	ug/Kg	☼	03/30/15 00:00	04/09/15 16:32	50
trans-1,2-Dichloroethene	<14		57	14	ug/Kg	☼	03/30/15 00:00	04/09/15 16:32	50
trans-1,3-Dichloropropene	<12		57	12	ug/Kg	☼	03/30/15 00:00	04/09/15 16:32	50
Trichloroethene	<11		29	11	ug/Kg	☼	03/30/15 00:00	04/09/15 16:32	50
Trichlorofluoromethane	<24		110	24	ug/Kg	☼	03/30/15 00:00	04/09/15 16:32	50
Vinyl chloride	<6.0		14	6.0	ug/Kg	☼	03/30/15 00:00	04/09/15 16:32	50
Xylenes, Total	<3.9		29	3.9	ug/Kg	☼	03/30/15 00:00	04/09/15 16:32	50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	105		75 - 125	03/30/15 00:00	04/09/15 16:32	50
4-Bromofluorobenzene (Surr)	104		75 - 120	03/30/15 00:00	04/09/15 16:32	50
Dibromofluoromethane	100		75 - 120	03/30/15 00:00	04/09/15 16:32	50
Toluene-d8 (Surr)	101		75 - 120	03/30/15 00:00	04/09/15 16:32	50

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	<8.6		35	8.6	ug/Kg	☼	04/03/15 07:28	04/08/15 13:25	1
2-Methylnaphthalene	<6.5		35	6.5	ug/Kg	☼	04/03/15 07:28	04/08/15 13:25	1
Acenaphthene	<6.3		35	6.3	ug/Kg	☼	04/03/15 07:28	04/08/15 13:25	1
Acenaphthylene	<4.7		35	4.7	ug/Kg	☼	04/03/15 07:28	04/08/15 13:25	1
Anthracene	<5.9		35	5.9	ug/Kg	☼	04/03/15 07:28	04/08/15 13:25	1
Benzo[a]anthracene	<4.7		35	4.7	ug/Kg	☼	04/03/15 07:28	04/08/15 13:25	1
Benzo[a]pyrene	<6.8		35	6.8	ug/Kg	☼	04/03/15 07:28	04/08/15 13:25	1
Benzo[b]fluoranthene	<7.6		35	7.6	ug/Kg	☼	04/03/15 07:28	04/08/15 13:25	1
Benzo[g,h,i]perylene	<11		35	11	ug/Kg	☼	04/03/15 07:28	04/08/15 13:25	1
Benzo[k]fluoranthene	<10		35	10	ug/Kg	☼	04/03/15 07:28	04/08/15 13:25	1
Chrysene	<9.6		35	9.6	ug/Kg	☼	04/03/15 07:28	04/08/15 13:25	1
Dibenz(a,h)anthracene	<6.8		35	6.8	ug/Kg	☼	04/03/15 07:28	04/08/15 13:25	1
Fluoranthene	<6.5		35	6.5	ug/Kg	☼	04/03/15 07:28	04/08/15 13:25	1
Fluorene	<5.0		35	5.0	ug/Kg	☼	04/03/15 07:28	04/08/15 13:25	1
Indeno[1,2,3-cd]pyrene	<9.1		35	9.1	ug/Kg	☼	04/03/15 07:28	04/08/15 13:25	1
Naphthalene	<5.4		35	5.4	ug/Kg	☼	04/03/15 07:28	04/08/15 13:25	1
Phenanthrene	8.8	J	35	4.9	ug/Kg	☼	04/03/15 07:28	04/08/15 13:25	1
Pyrene	<7.0		35	7.0	ug/Kg	☼	04/03/15 07:28	04/08/15 13:25	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	46		25 - 119	04/03/15 07:28	04/08/15 13:25	1
Nitrobenzene-d5 (Surr)	38		25 - 115	04/03/15 07:28	04/08/15 13:25	1
Terphenyl-d14 (Surr)	81		36 - 134	04/03/15 07:28	04/08/15 13:25	1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<6.2		18	6.2	ug/Kg	☼	04/03/15 07:22	04/04/15 10:30	1
PCB-1221	<7.8		18	7.8	ug/Kg	☼	04/03/15 07:22	04/04/15 10:30	1
PCB-1232	<7.7		18	7.7	ug/Kg	☼	04/03/15 07:22	04/04/15 10:30	1
PCB-1242	<5.8		18	5.8	ug/Kg	☼	04/03/15 07:22	04/04/15 10:30	1

TestAmerica Chicago

Client Sample Results

Client: TRC Environmental Corporation.
Project/Site: Former CMC Shops Wheelhouse 232269

TestAmerica Job ID: 500-94066-1

Client Sample ID: GP-4 (2-4)

Lab Sample ID: 500-94066-9

Date Collected: 03/30/15 00:00

Matrix: Solid

Date Received: 04/02/15 09:30

Percent Solids: 93.0

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1248	<7.0		18	7.0	ug/Kg	☼	04/03/15 07:22	04/04/15 10:30	1
PCB-1254	<3.8		18	3.8	ug/Kg	☼	04/03/15 07:22	04/04/15 10:30	1
PCB-1260	<8.7		18	8.7	ug/Kg	☼	04/03/15 07:22	04/04/15 10:30	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	85		50 - 116				04/03/15 07:22	04/04/15 10:30	1
DCB Decachlorobiphenyl	88		48 - 142				04/03/15 07:22	04/04/15 10:30	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	4.0		1.0	0.47	mg/Kg	☼	04/05/15 18:00	04/06/15 17:30	1
Barium	12	V	1.0	0.19	mg/Kg	☼	04/05/15 18:00	04/06/15 17:30	1
Cadmium	0.31		0.20	0.059	mg/Kg	☼	04/05/15 18:00	04/06/15 17:30	1
Chromium	5.6		1.0	0.18	mg/Kg	☼	04/05/15 18:00	04/06/15 17:30	1
Lead	27	F1	0.51	0.25	mg/Kg	☼	04/05/15 18:00	04/06/15 17:30	1
Selenium	<0.51		1.0	0.51	mg/Kg	☼	04/05/15 18:00	04/06/15 17:30	1
Silver	<0.12		0.51	0.12	mg/Kg	☼	04/05/15 18:00	04/06/15 17:30	1

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.033		0.017	0.0058	mg/Kg	☼	04/03/15 14:00	04/06/15 09:29	1

Client Sample ID: GP-4 (6-8)

Lab Sample ID: 500-94066-10

Date Collected: 03/30/15 00:00

Matrix: Solid

Date Received: 04/02/15 09:30

Percent Solids: 70.7

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<22		130	22	ug/Kg	☼	03/30/15 00:00	04/09/15 17:00	50
1,1,1-Trichloroethane	<13		64	13	ug/Kg	☼	03/30/15 00:00	04/09/15 17:00	50
1,1,2,2-Tetrachloroethane	<15		64	15	ug/Kg	☼	03/30/15 00:00	04/09/15 17:00	50
1,1,2-Trichloroethane	<18		64	18	ug/Kg	☼	03/30/15 00:00	04/09/15 17:00	50
1,1-Dichloroethane	<12		64	12	ug/Kg	☼	03/30/15 00:00	04/09/15 17:00	50
1,1-Dichloroethene	<20		64	20	ug/Kg	☼	03/30/15 00:00	04/09/15 17:00	50
1,1-Dichloropropene	<22		64	22	ug/Kg	☼	03/30/15 00:00	04/09/15 17:00	50
1,2,3-Trichlorobenzene	<23		130	23	ug/Kg	☼	03/30/15 00:00	04/09/15 17:00	50
1,2,3-Trichloropropane	<37		130	37	ug/Kg	☼	03/30/15 00:00	04/09/15 17:00	50
1,2,4-Trichlorobenzene	<24		130	24	ug/Kg	☼	03/30/15 00:00	04/09/15 17:00	50
1,2,4-Trimethylbenzene	<14		130	14	ug/Kg	☼	03/30/15 00:00	04/09/15 17:00	50
1,2-Dibromo-3-Chloropropane	<56		130	56	ug/Kg	☼	03/30/15 00:00	04/09/15 17:00	50
1,2-Dibromoethane	<20		130	20	ug/Kg	☼	03/30/15 00:00	04/09/15 17:00	50
1,2-Dichlorobenzene	<13		130	13	ug/Kg	☼	03/30/15 00:00	04/09/15 17:00	50
1,2-Dichloroethane	<18		64	18	ug/Kg	☼	03/30/15 00:00	04/09/15 17:00	50
1,2-Dichloropropane	<13		64	13	ug/Kg	☼	03/30/15 00:00	04/09/15 17:00	50
1,3,5-Trimethylbenzene	<13		130	13	ug/Kg	☼	03/30/15 00:00	04/09/15 17:00	50
1,3-Dichlorobenzene	<17		130	17	ug/Kg	☼	03/30/15 00:00	04/09/15 17:00	50
1,3-Dichloropropane	<8.6		64	8.6	ug/Kg	☼	03/30/15 00:00	04/09/15 17:00	50
1,4-Dichlorobenzene	<11		130	11	ug/Kg	☼	03/30/15 00:00	04/09/15 17:00	50
2,2-Dichloropropane	<20		64	20	ug/Kg	☼	03/30/15 00:00	04/09/15 17:00	50
2-Chlorotoluene	<13		64	13	ug/Kg	☼	03/30/15 00:00	04/09/15 17:00	50

TestAmerica Chicago

Client Sample Results

Client: TRC Environmental Corporation.
Project/Site: Former CMC Shops Wheelhouse 232269

TestAmerica Job ID: 500-94066-1

Client Sample ID: GP-4 (6-8)

Lab Sample ID: 500-94066-10

Date Collected: 03/30/15 00:00

Matrix: Solid

Date Received: 04/02/15 09:30

Percent Solids: 70.7

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Chlorotoluene	<13		64	13	ug/Kg	☼	03/30/15 00:00	04/09/15 17:00	50
Benzene	<4.8		16	4.8	ug/Kg	☼	03/30/15 00:00	04/09/15 17:00	50
Bromobenzene	<27		130	27	ug/Kg	☼	03/30/15 00:00	04/09/15 17:00	50
Bromochloromethane	<24		130	24	ug/Kg	☼	03/30/15 00:00	04/09/15 17:00	50
Bromodichloromethane	<22		130	22	ug/Kg	☼	03/30/15 00:00	04/09/15 17:00	50
Bromoform	<28		130	28	ug/Kg	☼	03/30/15 00:00	04/09/15 17:00	50
Bromomethane	<44		130	44	ug/Kg	☼	03/30/15 00:00	04/09/15 17:00	50
Carbon tetrachloride	<17		64	17	ug/Kg	☼	03/30/15 00:00	04/09/15 17:00	50
Chlorobenzene	<9.2		64	9.2	ug/Kg	☼	03/30/15 00:00	04/09/15 17:00	50
Chloroethane	<28		130	28	ug/Kg	☼	03/30/15 00:00	04/09/15 17:00	50
Chloroform	<13		64	13	ug/Kg	☼	03/30/15 00:00	04/09/15 17:00	50
Chloromethane	<30		130	30	ug/Kg	☼	03/30/15 00:00	04/09/15 17:00	50
cis-1,2-Dichloroethene	<7.9		64	7.9	ug/Kg	☼	03/30/15 00:00	04/09/15 17:00	50
cis-1,3-Dichloropropene	<11		64	11	ug/Kg	☼	03/30/15 00:00	04/09/15 17:00	50
Dibromochloromethane	<22		130	22	ug/Kg	☼	03/30/15 00:00	04/09/15 17:00	50
Dibromomethane	<31		130	31	ug/Kg	☼	03/30/15 00:00	04/09/15 17:00	50
Dichlorodifluoromethane	<33		130	33	ug/Kg	☼	03/30/15 00:00	04/09/15 17:00	50
Ethylbenzene	<8.1		16	8.1	ug/Kg	☼	03/30/15 00:00	04/09/15 17:00	50
Hexachlorobutadiene	<22		130	22	ug/Kg	☼	03/30/15 00:00	04/09/15 17:00	50
Isopropyl ether	<9.5		130	9.5	ug/Kg	☼	03/30/15 00:00	04/09/15 17:00	50
Isopropylbenzene	<16		130	16	ug/Kg	☼	03/30/15 00:00	04/09/15 17:00	50
Methyl tert-butyl ether	<28		130	28	ug/Kg	☼	03/30/15 00:00	04/09/15 17:00	50
Methylene Chloride	<44		320	44	ug/Kg	☼	03/30/15 00:00	04/09/15 17:00	50
Naphthalene	<32		130	32	ug/Kg	☼	03/30/15 00:00	04/09/15 17:00	50
n-Butylbenzene	190		64	8.3	ug/Kg	☼	03/30/15 00:00	04/09/15 17:00	50
N-Propylbenzene	<11		130	11	ug/Kg	☼	03/30/15 00:00	04/09/15 17:00	50
p-Isopropyltoluene	<12		130	12	ug/Kg	☼	03/30/15 00:00	04/09/15 17:00	50
sec-Butylbenzene	<9.9		64	9.9	ug/Kg	☼	03/30/15 00:00	04/09/15 17:00	50
Styrene	<6.4		64	6.4	ug/Kg	☼	03/30/15 00:00	04/09/15 17:00	50
tert-Butylbenzene	<8.8		64	8.8	ug/Kg	☼	03/30/15 00:00	04/09/15 17:00	50
Tetrachloroethene	<11		64	11	ug/Kg	☼	03/30/15 00:00	04/09/15 17:00	50
Toluene	<7.4		16	7.4	ug/Kg	☼	03/30/15 00:00	04/09/15 17:00	50
trans-1,2-Dichloroethene	<16		64	16	ug/Kg	☼	03/30/15 00:00	04/09/15 17:00	50
trans-1,3-Dichloropropene	<13		64	13	ug/Kg	☼	03/30/15 00:00	04/09/15 17:00	50
Trichloroethene	<12		32	12	ug/Kg	☼	03/30/15 00:00	04/09/15 17:00	50
Trichlorofluoromethane	<27		130	27	ug/Kg	☼	03/30/15 00:00	04/09/15 17:00	50
Vinyl chloride	<6.7		16	6.7	ug/Kg	☼	03/30/15 00:00	04/09/15 17:00	50
Xylenes, Total	<4.4		32	4.4	ug/Kg	☼	03/30/15 00:00	04/09/15 17:00	50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	112		75 - 125	03/30/15 00:00	04/09/15 17:00	50
4-Bromofluorobenzene (Surr)	105		75 - 120	03/30/15 00:00	04/09/15 17:00	50
Dibromofluoromethane	105		75 - 120	03/30/15 00:00	04/09/15 17:00	50
Toluene-d8 (Surr)	99		75 - 120	03/30/15 00:00	04/09/15 17:00	50

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	3000		45	8.4	ug/Kg	☼	04/03/15 07:28	04/10/15 17:13	1
Acenaphthene	470		45	8.2	ug/Kg	☼	04/03/15 07:28	04/10/15 17:13	1
Acenaphthylene	<6.0		45	6.0	ug/Kg	☼	04/03/15 07:28	04/10/15 17:13	1

TestAmerica Chicago

Client Sample Results

Client: TRC Environmental Corporation.
Project/Site: Former CMC Shops Wheelhouse 232269

TestAmerica Job ID: 500-94066-1

Client Sample ID: GP-4 (6-8)

Lab Sample ID: 500-94066-10

Date Collected: 03/30/15 00:00

Matrix: Solid

Date Received: 04/02/15 09:30

Percent Solids: 70.7

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	190		45	7.6	ug/Kg	☼	04/03/15 07:28	04/10/15 17:13	1
Benzo[a]anthracene	9.5	J	45	6.2	ug/Kg	☼	04/03/15 07:28	04/10/15 17:13	1
Benzo[a]pyrene	<8.9		45	8.9	ug/Kg	☼	04/03/15 07:28	04/10/15 17:13	1
Benzo[b]fluoranthene	<9.9		45	9.9	ug/Kg	☼	04/03/15 07:28	04/10/15 17:13	1
Benzo[g,h,i]perylene	<15		45	15	ug/Kg	☼	04/03/15 07:28	04/10/15 17:13	1
Benzo[k]fluoranthene	<13		45	13	ug/Kg	☼	04/03/15 07:28	04/10/15 17:13	1
Chrysene	13	J	45	12	ug/Kg	☼	04/03/15 07:28	04/10/15 17:13	1
Dibenz(a,h)anthracene	<8.8		45	8.8	ug/Kg	☼	04/03/15 07:28	04/10/15 17:13	1
Fluoranthene	15	J	45	8.5	ug/Kg	☼	04/03/15 07:28	04/10/15 17:13	1
Fluorene	680		45	6.4	ug/Kg	☼	04/03/15 07:28	04/10/15 17:13	1
Indeno[1,2,3-cd]pyrene	<12		45	12	ug/Kg	☼	04/03/15 07:28	04/10/15 17:13	1
Naphthalene	76		45	7.0	ug/Kg	☼	04/03/15 07:28	04/10/15 17:13	1
Phenanthrene	760		45	6.4	ug/Kg	☼	04/03/15 07:28	04/10/15 17:13	1
Pyrene	120		45	9.1	ug/Kg	☼	04/03/15 07:28	04/10/15 17:13	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	68		25 - 119	04/03/15 07:28	04/10/15 17:13	1
Nitrobenzene-d5 (Surr)	53		25 - 115	04/03/15 07:28	04/10/15 17:13	1
Terphenyl-d14 (Surr)	112		36 - 134	04/03/15 07:28	04/10/15 17:13	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	5200		450	110	ug/Kg	☼	04/03/15 07:28	04/11/15 17:23	10

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<8.1		23	8.1	ug/Kg	☼	04/03/15 07:22	04/04/15 10:44	1
PCB-1221	<10		23	10	ug/Kg	☼	04/03/15 07:22	04/04/15 10:44	1
PCB-1232	<10		23	10	ug/Kg	☼	04/03/15 07:22	04/04/15 10:44	1
PCB-1242	<7.6		23	7.6	ug/Kg	☼	04/03/15 07:22	04/04/15 10:44	1
PCB-1248	<9.1		23	9.1	ug/Kg	☼	04/03/15 07:22	04/04/15 10:44	1
PCB-1254	<5.0		23	5.0	ug/Kg	☼	04/03/15 07:22	04/04/15 10:44	1
PCB-1260	<11		23	11	ug/Kg	☼	04/03/15 07:22	04/04/15 10:44	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	65		50 - 116	04/03/15 07:22	04/04/15 10:44	1
DCB Decachlorobiphenyl	85		48 - 142	04/03/15 07:22	04/04/15 10:44	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	1.3	J	1.4	0.63	mg/Kg	☼	04/05/15 18:00	04/06/15 15:48	1
Barium	59		1.4	0.25	mg/Kg	☼	04/05/15 18:00	04/06/15 15:48	1
Cadmium	0.18	J	0.27	0.080	mg/Kg	☼	04/05/15 18:00	04/06/15 15:48	1
Chromium	11		1.4	0.24	mg/Kg	☼	04/05/15 18:00	04/06/15 15:48	1
Lead	6.7		0.69	0.34	mg/Kg	☼	04/05/15 18:00	04/06/15 15:48	1
Selenium	0.82	J	1.4	0.68	mg/Kg	☼	04/05/15 18:00	04/06/15 15:48	1
Silver	<0.16		0.69	0.16	mg/Kg	☼	04/05/15 18:00	04/06/15 15:48	1

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.026		0.022	0.0078	mg/Kg	☼	04/07/15 14:00	04/08/15 09:00	1

TestAmerica Chicago

Client Sample Results

Client: TRC Environmental Corporation.
Project/Site: Former CMC Shops Wheelhouse 232269

TestAmerica Job ID: 500-94066-1

Client Sample ID: GP-5 (2-4)

Lab Sample ID: 500-94066-11

Date Collected: 03/30/15 00:00

Matrix: Solid

Date Received: 04/02/15 09:30

Percent Solids: 87.8

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<22		130	22	ug/Kg	☼	03/30/15 00:00	04/09/15 17:28	50
1,1,1-Trichloroethane	<13		65	13	ug/Kg	☼	03/30/15 00:00	04/09/15 17:28	50
1,1,2,2-Tetrachloroethane	<15		65	15	ug/Kg	☼	03/30/15 00:00	04/09/15 17:28	50
1,1,2-Trichloroethane	<18		65	18	ug/Kg	☼	03/30/15 00:00	04/09/15 17:28	50
1,1-Dichloroethane	<12		65	12	ug/Kg	☼	03/30/15 00:00	04/09/15 17:28	50
1,1-Dichloroethene	<20		65	20	ug/Kg	☼	03/30/15 00:00	04/09/15 17:28	50
1,1-Dichloropropene	<22		65	22	ug/Kg	☼	03/30/15 00:00	04/09/15 17:28	50
1,2,3-Trichlorobenzene	<23		130	23	ug/Kg	☼	03/30/15 00:00	04/09/15 17:28	50
1,2,3-Trichloropropane	<37		130	37	ug/Kg	☼	03/30/15 00:00	04/09/15 17:28	50
1,2,4-Trichlorobenzene	<24		130	24	ug/Kg	☼	03/30/15 00:00	04/09/15 17:28	50
1,2,4-Trimethylbenzene	<14		130	14	ug/Kg	☼	03/30/15 00:00	04/09/15 17:28	50
1,2-Dibromo-3-Chloropropane	<56		130	56	ug/Kg	☼	03/30/15 00:00	04/09/15 17:28	50
1,2-Dibromoethane	<20		130	20	ug/Kg	☼	03/30/15 00:00	04/09/15 17:28	50
1,2-Dichlorobenzene	140		130	13	ug/Kg	☼	03/30/15 00:00	04/09/15 17:28	50
1,2-Dichloroethane	<18		65	18	ug/Kg	☼	03/30/15 00:00	04/09/15 17:28	50
1,2-Dichloropropane	<13		65	13	ug/Kg	☼	03/30/15 00:00	04/09/15 17:28	50
1,3,5-Trimethylbenzene	<13		130	13	ug/Kg	☼	03/30/15 00:00	04/09/15 17:28	50
1,3-Dichlorobenzene	<17		130	17	ug/Kg	☼	03/30/15 00:00	04/09/15 17:28	50
1,3-Dichloropropane	<8.7		65	8.7	ug/Kg	☼	03/30/15 00:00	04/09/15 17:28	50
1,4-Dichlorobenzene	<11		130	11	ug/Kg	☼	03/30/15 00:00	04/09/15 17:28	50
2,2-Dichloropropane	<20		65	20	ug/Kg	☼	03/30/15 00:00	04/09/15 17:28	50
2-Chlorotoluene	<13		65	13	ug/Kg	☼	03/30/15 00:00	04/09/15 17:28	50
4-Chlorotoluene	<13		65	13	ug/Kg	☼	03/30/15 00:00	04/09/15 17:28	50
Benzene	<4.8		16	4.8	ug/Kg	☼	03/30/15 00:00	04/09/15 17:28	50
Bromobenzene	<27		130	27	ug/Kg	☼	03/30/15 00:00	04/09/15 17:28	50
Bromochloromethane	<24		130	24	ug/Kg	☼	03/30/15 00:00	04/09/15 17:28	50
Bromodichloromethane	<22		130	22	ug/Kg	☼	03/30/15 00:00	04/09/15 17:28	50
Bromoform	<28		130	28	ug/Kg	☼	03/30/15 00:00	04/09/15 17:28	50
Bromomethane	<44		130	44	ug/Kg	☼	03/30/15 00:00	04/09/15 17:28	50
Carbon tetrachloride	<17		65	17	ug/Kg	☼	03/30/15 00:00	04/09/15 17:28	50
Chlorobenzene	<9.2		65	9.2	ug/Kg	☼	03/30/15 00:00	04/09/15 17:28	50
Chloroethane	<28		130	28	ug/Kg	☼	03/30/15 00:00	04/09/15 17:28	50
Chloroform	<13		65	13	ug/Kg	☼	03/30/15 00:00	04/09/15 17:28	50
Chloromethane	<30		130	30	ug/Kg	☼	03/30/15 00:00	04/09/15 17:28	50
cis-1,2-Dichloroethene	<7.9		65	7.9	ug/Kg	☼	03/30/15 00:00	04/09/15 17:28	50
cis-1,3-Dichloropropene	<12		65	12	ug/Kg	☼	03/30/15 00:00	04/09/15 17:28	50
Dibromochloromethane	<22		130	22	ug/Kg	☼	03/30/15 00:00	04/09/15 17:28	50
Dibromomethane	<31		130	31	ug/Kg	☼	03/30/15 00:00	04/09/15 17:28	50
Dichlorodifluoromethane	<33		130	33	ug/Kg	☼	03/30/15 00:00	04/09/15 17:28	50
Ethylbenzene	<8.1		16	8.1	ug/Kg	☼	03/30/15 00:00	04/09/15 17:28	50
Hexachlorobutadiene	<22		130	22	ug/Kg	☼	03/30/15 00:00	04/09/15 17:28	50
Isopropyl ether	<9.5		130	9.5	ug/Kg	☼	03/30/15 00:00	04/09/15 17:28	50
Isopropylbenzene	<16		130	16	ug/Kg	☼	03/30/15 00:00	04/09/15 17:28	50
Methyl tert-butyl ether	<28		130	28	ug/Kg	☼	03/30/15 00:00	04/09/15 17:28	50
Methylene Chloride	<44		320	44	ug/Kg	☼	03/30/15 00:00	04/09/15 17:28	50
Naphthalene	<32		130	32	ug/Kg	☼	03/30/15 00:00	04/09/15 17:28	50
n-Butylbenzene	<8.3		65	8.3	ug/Kg	☼	03/30/15 00:00	04/09/15 17:28	50
N-Propylbenzene	<11		130	11	ug/Kg	☼	03/30/15 00:00	04/09/15 17:28	50
p-Isopropyltoluene	<12		130	12	ug/Kg	☼	03/30/15 00:00	04/09/15 17:28	50

TestAmerica Chicago

Client Sample Results

Client: TRC Environmental Corporation.
Project/Site: Former CMC Shops Wheelhouse 232269

TestAmerica Job ID: 500-94066-1

Client Sample ID: GP-5 (2-4)

Lab Sample ID: 500-94066-11

Date Collected: 03/30/15 00:00

Matrix: Solid

Date Received: 04/02/15 09:30

Percent Solids: 87.8

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	<10		65	10	ug/Kg	☼	03/30/15 00:00	04/09/15 17:28	50
Styrene	<6.4		65	6.4	ug/Kg	☼	03/30/15 00:00	04/09/15 17:28	50
tert-Butylbenzene	<8.8		65	8.8	ug/Kg	☼	03/30/15 00:00	04/09/15 17:28	50
Tetrachloroethene	<11		65	11	ug/Kg	☼	03/30/15 00:00	04/09/15 17:28	50
Toluene	<7.4		16	7.4	ug/Kg	☼	03/30/15 00:00	04/09/15 17:28	50
trans-1,2-Dichloroethene	<16		65	16	ug/Kg	☼	03/30/15 00:00	04/09/15 17:28	50
trans-1,3-Dichloropropene	<13		65	13	ug/Kg	☼	03/30/15 00:00	04/09/15 17:28	50
Trichloroethene	<12		32	12	ug/Kg	☼	03/30/15 00:00	04/09/15 17:28	50
Trichlorofluoromethane	<27		130	27	ug/Kg	☼	03/30/15 00:00	04/09/15 17:28	50
Vinyl chloride	<6.7		16	6.7	ug/Kg	☼	03/30/15 00:00	04/09/15 17:28	50
Xylenes, Total	<4.4		32	4.4	ug/Kg	☼	03/30/15 00:00	04/09/15 17:28	50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	113		75 - 125	03/30/15 00:00	04/09/15 17:28	50
4-Bromofluorobenzene (Surr)	106		75 - 120	03/30/15 00:00	04/09/15 17:28	50
Dibromofluoromethane	106		75 - 120	03/30/15 00:00	04/09/15 17:28	50
Toluene-d8 (Surr)	97		75 - 120	03/30/15 00:00	04/09/15 17:28	50

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	25	J	37	9.1	ug/Kg	☼	04/03/15 07:28	04/08/15 14:08	1
2-Methylnaphthalene	33	J	37	6.8	ug/Kg	☼	04/03/15 07:28	04/08/15 14:08	1
Acenaphthene	<6.7		37	6.7	ug/Kg	☼	04/03/15 07:28	04/08/15 14:08	1
Acenaphthylene	<4.9		37	4.9	ug/Kg	☼	04/03/15 07:28	04/08/15 14:08	1
Anthracene	15	J	37	6.2	ug/Kg	☼	04/03/15 07:28	04/08/15 14:08	1
Benzo[a]anthracene	34	J	37	5.0	ug/Kg	☼	04/03/15 07:28	04/08/15 14:08	1
Benzo[a]pyrene	27	J	37	7.2	ug/Kg	☼	04/03/15 07:28	04/08/15 14:08	1
Benzo[b]fluoranthene	59		37	8.0	ug/Kg	☼	04/03/15 07:28	04/08/15 14:08	1
Benzo[g,h,i]perylene	24	J	37	12	ug/Kg	☼	04/03/15 07:28	04/08/15 14:08	1
Benzo[k]fluoranthene	19	J	37	11	ug/Kg	☼	04/03/15 07:28	04/08/15 14:08	1
Chrysene	57		37	10	ug/Kg	☼	04/03/15 07:28	04/08/15 14:08	1
Dibenz[a,h]anthracene	<7.2		37	7.2	ug/Kg	☼	04/03/15 07:28	04/08/15 14:08	1
Fluoranthene	84		37	6.9	ug/Kg	☼	04/03/15 07:28	04/08/15 14:08	1
Fluorene	<5.2		37	5.2	ug/Kg	☼	04/03/15 07:28	04/08/15 14:08	1
Indeno[1,2,3-cd]pyrene	16	J	37	9.6	ug/Kg	☼	04/03/15 07:28	04/08/15 14:08	1
Naphthalene	30	J	37	5.7	ug/Kg	☼	04/03/15 07:28	04/08/15 14:08	1
Phenanthrene	75		37	5.2	ug/Kg	☼	04/03/15 07:28	04/08/15 14:08	1
Pyrene	67		37	7.4	ug/Kg	☼	04/03/15 07:28	04/08/15 14:08	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	56		25 - 119	04/03/15 07:28	04/08/15 14:08	1
Nitrobenzene-d5 (Surr)	45		25 - 115	04/03/15 07:28	04/08/15 14:08	1
Terphenyl-d14 (Surr)	69		36 - 134	04/03/15 07:28	04/08/15 14:08	1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<6.5		18	6.5	ug/Kg	☼	04/03/15 07:22	04/04/15 11:11	1
PCB-1221	<8.1		18	8.1	ug/Kg	☼	04/03/15 07:22	04/04/15 11:11	1
PCB-1232	<8.0		18	8.0	ug/Kg	☼	04/03/15 07:22	04/04/15 11:11	1
PCB-1242	<6.0		18	6.0	ug/Kg	☼	04/03/15 07:22	04/04/15 11:11	1

TestAmerica Chicago

Client Sample Results

Client: TRC Environmental Corporation.
Project/Site: Former CMC Shops Wheelhouse 232269

TestAmerica Job ID: 500-94066-1

Client Sample ID: GP-5 (2-4)

Date Collected: 03/30/15 00:00

Date Received: 04/02/15 09:30

Lab Sample ID: 500-94066-11

Matrix: Solid

Percent Solids: 87.8

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1248	<7.2		18	7.2	ug/Kg	☼	04/03/15 07:22	04/04/15 11:11	1
PCB-1254	21		18	3.9	ug/Kg	☼	04/03/15 07:22	04/04/15 11:11	1
PCB-1260	20		18	9.0	ug/Kg	☼	04/03/15 07:22	04/04/15 11:11	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	82		50 - 116				04/03/15 07:22	04/04/15 11:11	1
DCB Decachlorobiphenyl	70		48 - 142				04/03/15 07:22	04/04/15 11:11	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	7.0		1.1	0.53	mg/Kg	☼	04/05/15 18:00	04/06/15 15:53	1
Barium	40		1.1	0.21	mg/Kg	☼	04/05/15 18:00	04/06/15 15:53	1
Cadmium	0.67		0.23	0.066	mg/Kg	☼	04/05/15 18:00	04/06/15 15:53	1
Chromium	14		1.1	0.20	mg/Kg	☼	04/05/15 18:00	04/06/15 15:53	1
Lead	85		0.57	0.28	mg/Kg	☼	04/05/15 18:00	04/06/15 15:53	1
Selenium	0.83 J		1.1	0.56	mg/Kg	☼	04/05/15 18:00	04/06/15 15:53	1
Silver	<0.13		0.57	0.13	mg/Kg	☼	04/05/15 18:00	04/06/15 15:53	1

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.067		0.017	0.0058	mg/Kg	☼	04/03/15 14:00	04/06/15 09:31	1

Client Sample ID: GP-5 (6-8)

Date Collected: 03/30/15 00:00

Date Received: 04/02/15 09:30

Lab Sample ID: 500-94066-12

Matrix: Solid

Percent Solids: 80.9

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<25		150	25	ug/Kg	☼	03/30/15 00:00	04/09/15 17:56	50
1,1,1-Trichloroethane	<15		73	15	ug/Kg	☼	03/30/15 00:00	04/09/15 17:56	50
1,1,2,2-Tetrachloroethane	<17		73	17	ug/Kg	☼	03/30/15 00:00	04/09/15 17:56	50
1,1,2-Trichloroethane	<20		73	20	ug/Kg	☼	03/30/15 00:00	04/09/15 17:56	50
1,1-Dichloroethane	<14		73	14	ug/Kg	☼	03/30/15 00:00	04/09/15 17:56	50
1,1-Dichloroethene	<22		73	22	ug/Kg	☼	03/30/15 00:00	04/09/15 17:56	50
1,1-Dichloropropene	<25		73	25	ug/Kg	☼	03/30/15 00:00	04/09/15 17:56	50
1,2,3-Trichlorobenzene	<26		150	26	ug/Kg	☼	03/30/15 00:00	04/09/15 17:56	50
1,2,3-Trichloropropane	<42		150	42	ug/Kg	☼	03/30/15 00:00	04/09/15 17:56	50
1,2,4-Trichlorobenzene	<28		150	28	ug/Kg	☼	03/30/15 00:00	04/09/15 17:56	50
1,2,4-Trimethylbenzene	<15		150	15	ug/Kg	☼	03/30/15 00:00	04/09/15 17:56	50
1,2-Dibromo-3-Chloropropane	<64		150	64	ug/Kg	☼	03/30/15 00:00	04/09/15 17:56	50
1,2-Dibromoethane	<23		150	23	ug/Kg	☼	03/30/15 00:00	04/09/15 17:56	50
1,2-Dichlorobenzene	<15		150	15	ug/Kg	☼	03/30/15 00:00	04/09/15 17:56	50
1,2-Dichloroethane	<21		73	21	ug/Kg	☼	03/30/15 00:00	04/09/15 17:56	50
1,2-Dichloropropane	<14		73	14	ug/Kg	☼	03/30/15 00:00	04/09/15 17:56	50
1,3,5-Trimethylbenzene	<15		150	15	ug/Kg	☼	03/30/15 00:00	04/09/15 17:56	50
1,3-Dichlorobenzene	<19		150	19	ug/Kg	☼	03/30/15 00:00	04/09/15 17:56	50
1,3-Dichloropropane	<9.8		73	9.8	ug/Kg	☼	03/30/15 00:00	04/09/15 17:56	50
1,4-Dichlorobenzene	<13		150	13	ug/Kg	☼	03/30/15 00:00	04/09/15 17:56	50
2,2-Dichloropropane	<23		73	23	ug/Kg	☼	03/30/15 00:00	04/09/15 17:56	50
2-Chlorotoluene	<15		73	15	ug/Kg	☼	03/30/15 00:00	04/09/15 17:56	50

TestAmerica Chicago

Client Sample Results

Client: TRC Environmental Corporation.
Project/Site: Former CMC Shops Wheelhouse 232269

TestAmerica Job ID: 500-94066-1

Client Sample ID: GP-5 (6-8)

Lab Sample ID: 500-94066-12

Date Collected: 03/30/15 00:00

Matrix: Solid

Date Received: 04/02/15 09:30

Percent Solids: 80.9

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Chlorotoluene	<14		73	14	ug/Kg	☼	03/30/15 00:00	04/09/15 17:56	50
Benzene	<5.4		18	5.4	ug/Kg	☼	03/30/15 00:00	04/09/15 17:56	50
Bromobenzene	<31		150	31	ug/Kg	☼	03/30/15 00:00	04/09/15 17:56	50
Bromochloromethane	<28		150	28	ug/Kg	☼	03/30/15 00:00	04/09/15 17:56	50
Bromodichloromethane	<25		150	25	ug/Kg	☼	03/30/15 00:00	04/09/15 17:56	50
Bromoform	<32		150	32	ug/Kg	☼	03/30/15 00:00	04/09/15 17:56	50
Bromomethane	<50		150	50	ug/Kg	☼	03/30/15 00:00	04/09/15 17:56	50
Carbon tetrachloride	<19		73	19	ug/Kg	☼	03/30/15 00:00	04/09/15 17:56	50
Chlorobenzene	<10		73	10	ug/Kg	☼	03/30/15 00:00	04/09/15 17:56	50
Chloroethane	<32		150	32	ug/Kg	☼	03/30/15 00:00	04/09/15 17:56	50
Chloroform	<15		73	15	ug/Kg	☼	03/30/15 00:00	04/09/15 17:56	50
Chloromethane	<34		150	34	ug/Kg	☼	03/30/15 00:00	04/09/15 17:56	50
cis-1,2-Dichloroethene	<9.0		73	9.0	ug/Kg	☼	03/30/15 00:00	04/09/15 17:56	50
cis-1,3-Dichloropropene	<13		73	13	ug/Kg	☼	03/30/15 00:00	04/09/15 17:56	50
Dibromochloromethane	<25		150	25	ug/Kg	☼	03/30/15 00:00	04/09/15 17:56	50
Dibromomethane	<35		150	35	ug/Kg	☼	03/30/15 00:00	04/09/15 17:56	50
Dichlorodifluoromethane	<38		150	38	ug/Kg	☼	03/30/15 00:00	04/09/15 17:56	50
Ethylbenzene	<9.2		18	9.2	ug/Kg	☼	03/30/15 00:00	04/09/15 17:56	50
Hexachlorobutadiene	<25		150	25	ug/Kg	☼	03/30/15 00:00	04/09/15 17:56	50
Isopropyl ether	<11		150	11	ug/Kg	☼	03/30/15 00:00	04/09/15 17:56	50
Isopropylbenzene	<18		150	18	ug/Kg	☼	03/30/15 00:00	04/09/15 17:56	50
Methyl tert-butyl ether	<31		150	31	ug/Kg	☼	03/30/15 00:00	04/09/15 17:56	50
Methylene Chloride	<50		370	50	ug/Kg	☼	03/30/15 00:00	04/09/15 17:56	50
Naphthalene	<36		150	36	ug/Kg	☼	03/30/15 00:00	04/09/15 17:56	50
n-Butylbenzene	<9.4		73	9.4	ug/Kg	☼	03/30/15 00:00	04/09/15 17:56	50
N-Propylbenzene	<13		150	13	ug/Kg	☼	03/30/15 00:00	04/09/15 17:56	50
p-Isopropyltoluene	<14		150	14	ug/Kg	☼	03/30/15 00:00	04/09/15 17:56	50
sec-Butylbenzene	<11		73	11	ug/Kg	☼	03/30/15 00:00	04/09/15 17:56	50
Styrene	<7.2		73	7.2	ug/Kg	☼	03/30/15 00:00	04/09/15 17:56	50
tert-Butylbenzene	<10		73	10	ug/Kg	☼	03/30/15 00:00	04/09/15 17:56	50
Tetrachloroethene	<12		73	12	ug/Kg	☼	03/30/15 00:00	04/09/15 17:56	50
Toluene	<8.4		18	8.4	ug/Kg	☼	03/30/15 00:00	04/09/15 17:56	50
trans-1,2-Dichloroethene	<18		73	18	ug/Kg	☼	03/30/15 00:00	04/09/15 17:56	50
trans-1,3-Dichloropropene	<15		73	15	ug/Kg	☼	03/30/15 00:00	04/09/15 17:56	50
Trichloroethene	<14		37	14	ug/Kg	☼	03/30/15 00:00	04/09/15 17:56	50
Trichlorofluoromethane	<30		150	30	ug/Kg	☼	03/30/15 00:00	04/09/15 17:56	50
Vinyl chloride	<7.6		18	7.6	ug/Kg	☼	03/30/15 00:00	04/09/15 17:56	50
Xylenes, Total	<5.0		37	5.0	ug/Kg	☼	03/30/15 00:00	04/09/15 17:56	50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	111		75 - 125	03/30/15 00:00	04/09/15 17:56	50
4-Bromofluorobenzene (Surr)	105		75 - 120	03/30/15 00:00	04/09/15 17:56	50
Dibromofluoromethane	102		75 - 120	03/30/15 00:00	04/09/15 17:56	50
Toluene-d8 (Surr)	98		75 - 120	03/30/15 00:00	04/09/15 17:56	50

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	<470		1900	470	ug/Kg	☼	04/03/15 07:28	04/11/15 17:43	50
2-Methylnaphthalene	<350		1900	350	ug/Kg	☼	04/03/15 07:28	04/11/15 17:43	50
Acenaphthene	<350		1900	350	ug/Kg	☼	04/03/15 07:28	04/11/15 17:43	50

TestAmerica Chicago

Client Sample Results

Client: TRC Environmental Corporation.
Project/Site: Former CMC Shops Wheelhouse 232269

TestAmerica Job ID: 500-94066-1

Client Sample ID: GP-5 (6-8)

Lab Sample ID: 500-94066-12

Date Collected: 03/30/15 00:00

Matrix: Solid

Date Received: 04/02/15 09:30

Percent Solids: 80.9

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthylene	<250		1900	250	ug/Kg	☼	04/03/15 07:28	04/11/15 17:43	50
Anthracene	<320		1900	320	ug/Kg	☼	04/03/15 07:28	04/11/15 17:43	50
Benzo[a]anthracene	<260		1900	260	ug/Kg	☼	04/03/15 07:28	04/11/15 17:43	50
Benzo[a]pyrene	<370		1900	370	ug/Kg	☼	04/03/15 07:28	04/11/15 17:43	50
Benzo[b]fluoranthene	<420		1900	420	ug/Kg	☼	04/03/15 07:28	04/11/15 17:43	50
Benzo[g,h,i]perylene	<620		1900	620	ug/Kg	☼	04/03/15 07:28	04/11/15 17:43	50
Benzo[k]fluoranthene	<570		1900	570	ug/Kg	☼	04/03/15 07:28	04/11/15 17:43	50
Chrysene	<530		1900	530	ug/Kg	☼	04/03/15 07:28	04/11/15 17:43	50
Dibenz[a,h]anthracene	<370		1900	370	ug/Kg	☼	04/03/15 07:28	04/11/15 17:43	50
Fluoranthene	<360		1900	360	ug/Kg	☼	04/03/15 07:28	04/11/15 17:43	50
Fluorene	<270		1900	270	ug/Kg	☼	04/03/15 07:28	04/11/15 17:43	50
Indeno[1,2,3-cd]pyrene	<500		1900	500	ug/Kg	☼	04/03/15 07:28	04/11/15 17:43	50
Naphthalene	<300		1900	300	ug/Kg	☼	04/03/15 07:28	04/11/15 17:43	50
Phenanthrene	<270		1900	270	ug/Kg	☼	04/03/15 07:28	04/11/15 17:43	50
Pyrene	<380		1900	380	ug/Kg	☼	04/03/15 07:28	04/11/15 17:43	50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	53		25 - 119	04/03/15 07:28	04/11/15 17:43	50
Nitrobenzene-d5 (Surr)	32		25 - 115	04/03/15 07:28	04/11/15 17:43	50
Terphenyl-d14 (Surr)	64		36 - 134	04/03/15 07:28	04/11/15 17:43	50

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<7.2		20	7.2	ug/Kg	☼	04/03/15 07:22	04/04/15 11:25	1
PCB-1221	<9.0		20	9.0	ug/Kg	☼	04/03/15 07:22	04/04/15 11:25	1
PCB-1232	<8.9		20	8.9	ug/Kg	☼	04/03/15 07:22	04/04/15 11:25	1
PCB-1242	<6.7		20	6.7	ug/Kg	☼	04/03/15 07:22	04/04/15 11:25	1
PCB-1248	<8.0		20	8.0	ug/Kg	☼	04/03/15 07:22	04/04/15 11:25	1
PCB-1254	<4.4		20	4.4	ug/Kg	☼	04/03/15 07:22	04/04/15 11:25	1
PCB-1260	89		20	10	ug/Kg	☼	04/03/15 07:22	04/04/15 11:25	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	67		50 - 116	04/03/15 07:22	04/04/15 11:25	1
DCB Decachlorobiphenyl	57		48 - 142	04/03/15 07:22	04/04/15 11:25	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	5.4		1.1	0.52	mg/Kg	☼	04/05/15 18:00	04/06/15 15:58	1
Barium	34		1.1	0.21	mg/Kg	☼	04/05/15 18:00	04/06/15 15:58	1
Cadmium	0.23		0.23	0.065	mg/Kg	☼	04/05/15 18:00	04/06/15 15:58	1
Chromium	9.8		1.1	0.19	mg/Kg	☼	04/05/15 18:00	04/06/15 15:58	1
Lead	6.3		0.56	0.28	mg/Kg	☼	04/05/15 18:00	04/06/15 15:58	1
Selenium	0.57 J		1.1	0.56	mg/Kg	☼	04/05/15 18:00	04/06/15 15:58	1
Silver	<0.13		0.56	0.13	mg/Kg	☼	04/05/15 18:00	04/06/15 15:58	1

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.011 J		0.018	0.0062	mg/Kg	☼	04/03/15 14:00	04/06/15 09:33	1

TestAmerica Chicago

Client Sample Results

Client: TRC Environmental Corporation.
Project/Site: Former CMC Shops Wheelhouse 232269

TestAmerica Job ID: 500-94066-1

Client Sample ID: GP-6 (4-6)

Lab Sample ID: 500-94066-13

Date Collected: 03/30/15 00:00

Matrix: Solid

Date Received: 04/02/15 09:30

Percent Solids: 64.6

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<36		210	36	ug/Kg	☼	03/30/15 00:00	04/09/15 18:23	50
1,1,1-Trichloroethane	<21		100	21	ug/Kg	☼	03/30/15 00:00	04/09/15 18:23	50
1,1,2,2-Tetrachloroethane	<24		100	24	ug/Kg	☼	03/30/15 00:00	04/09/15 18:23	50
1,1,2-Trichloroethane	<29		100	29	ug/Kg	☼	03/30/15 00:00	04/09/15 18:23	50
1,1-Dichloroethane	<19		100	19	ug/Kg	☼	03/30/15 00:00	04/09/15 18:23	50
1,1-Dichloroethene	<32		100	32	ug/Kg	☼	03/30/15 00:00	04/09/15 18:23	50
1,1-Dichloropropene	<36		100	36	ug/Kg	☼	03/30/15 00:00	04/09/15 18:23	50
1,2,3-Trichlorobenzene	<37		210	37	ug/Kg	☼	03/30/15 00:00	04/09/15 18:23	50
1,2,3-Trichloropropane	<60		210	60	ug/Kg	☼	03/30/15 00:00	04/09/15 18:23	50
1,2,4-Trichlorobenzene	<39		210	39	ug/Kg	☼	03/30/15 00:00	04/09/15 18:23	50
1,2,4-Trimethylbenzene	<22		210	22	ug/Kg	☼	03/30/15 00:00	04/09/15 18:23	50
1,2-Dibromo-3-Chloropropane	<91		210	91	ug/Kg	☼	03/30/15 00:00	04/09/15 18:23	50
1,2-Dibromoethane	<33		210	33	ug/Kg	☼	03/30/15 00:00	04/09/15 18:23	50
1,2-Dichlorobenzene	<21		210	21	ug/Kg	☼	03/30/15 00:00	04/09/15 18:23	50
1,2-Dichloroethane	<30		100	30	ug/Kg	☼	03/30/15 00:00	04/09/15 18:23	50
1,2-Dichloropropane	<20		100	20	ug/Kg	☼	03/30/15 00:00	04/09/15 18:23	50
1,3,5-Trimethylbenzene	<21		210	21	ug/Kg	☼	03/30/15 00:00	04/09/15 18:23	50
1,3-Dichlorobenzene	<27		210	27	ug/Kg	☼	03/30/15 00:00	04/09/15 18:23	50
1,3-Dichloropropane	<14		100	14	ug/Kg	☼	03/30/15 00:00	04/09/15 18:23	50
1,4-Dichlorobenzene	<18		210	18	ug/Kg	☼	03/30/15 00:00	04/09/15 18:23	50
2,2-Dichloropropane	<33		100	33	ug/Kg	☼	03/30/15 00:00	04/09/15 18:23	50
2-Chlorotoluene	<22		100	22	ug/Kg	☼	03/30/15 00:00	04/09/15 18:23	50
4-Chlorotoluene	<21		100	21	ug/Kg	☼	03/30/15 00:00	04/09/15 18:23	50
Benzene	<7.7		26	7.7	ug/Kg	☼	03/30/15 00:00	04/09/15 18:23	50
Bromobenzene	<44		210	44	ug/Kg	☼	03/30/15 00:00	04/09/15 18:23	50
Bromochloromethane	<39		210	39	ug/Kg	☼	03/30/15 00:00	04/09/15 18:23	50
Bromodichloromethane	<35		210	35	ug/Kg	☼	03/30/15 00:00	04/09/15 18:23	50
Bromoform	<46		210	46	ug/Kg	☼	03/30/15 00:00	04/09/15 18:23	50
Bromomethane	<71		210	71	ug/Kg	☼	03/30/15 00:00	04/09/15 18:23	50
Carbon tetrachloride	<27		100	27	ug/Kg	☼	03/30/15 00:00	04/09/15 18:23	50
Chlorobenzene	<15		100	15	ug/Kg	☼	03/30/15 00:00	04/09/15 18:23	50
Chloroethane	<45		210	45	ug/Kg	☼	03/30/15 00:00	04/09/15 18:23	50
Chloroform	<21		100	21	ug/Kg	☼	03/30/15 00:00	04/09/15 18:23	50
Chloromethane	<48		210	48	ug/Kg	☼	03/30/15 00:00	04/09/15 18:23	50
cis-1,2-Dichloroethene	<13		100	13	ug/Kg	☼	03/30/15 00:00	04/09/15 18:23	50
cis-1,3-Dichloropropene	<19		100	19	ug/Kg	☼	03/30/15 00:00	04/09/15 18:23	50
Dibromochloromethane	<36		210	36	ug/Kg	☼	03/30/15 00:00	04/09/15 18:23	50
Dibromomethane	<50		210	50	ug/Kg	☼	03/30/15 00:00	04/09/15 18:23	50
Dichlorodifluoromethane	<54		210	54	ug/Kg	☼	03/30/15 00:00	04/09/15 18:23	50
Ethylbenzene	<13		26	13	ug/Kg	☼	03/30/15 00:00	04/09/15 18:23	50
Hexachlorobutadiene	<36		210	36	ug/Kg	☼	03/30/15 00:00	04/09/15 18:23	50
Isopropyl ether	<15		210	15	ug/Kg	☼	03/30/15 00:00	04/09/15 18:23	50
Isopropylbenzene	<26		210	26	ug/Kg	☼	03/30/15 00:00	04/09/15 18:23	50
Methyl tert-butyl ether	<45		210	45	ug/Kg	☼	03/30/15 00:00	04/09/15 18:23	50
Methylene Chloride	<71		520	71	ug/Kg	☼	03/30/15 00:00	04/09/15 18:23	50
Naphthalene	<52		210	52	ug/Kg	☼	03/30/15 00:00	04/09/15 18:23	50
n-Butylbenzene	<13		100	13	ug/Kg	☼	03/30/15 00:00	04/09/15 18:23	50
N-Propylbenzene	<18		210	18	ug/Kg	☼	03/30/15 00:00	04/09/15 18:23	50
p-Isopropyltoluene	<19		210	19	ug/Kg	☼	03/30/15 00:00	04/09/15 18:23	50

TestAmerica Chicago

Client Sample Results

Client: TRC Environmental Corporation.
Project/Site: Former CMC Shops Wheelhouse 232269

TestAmerica Job ID: 500-94066-1

Client Sample ID: GP-6 (4-6)

Lab Sample ID: 500-94066-13

Date Collected: 03/30/15 00:00

Matrix: Solid

Date Received: 04/02/15 09:30

Percent Solids: 64.6

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	<16		100	16	ug/Kg	☼	03/30/15 00:00	04/09/15 18:23	50
Styrene	<10		100	10	ug/Kg	☼	03/30/15 00:00	04/09/15 18:23	50
tert-Butylbenzene	<14		100	14	ug/Kg	☼	03/30/15 00:00	04/09/15 18:23	50
Tetrachloroethene	<17		100	17	ug/Kg	☼	03/30/15 00:00	04/09/15 18:23	50
Toluene	<12		26	12	ug/Kg	☼	03/30/15 00:00	04/09/15 18:23	50
trans-1,2-Dichloroethene	<26		100	26	ug/Kg	☼	03/30/15 00:00	04/09/15 18:23	50
trans-1,3-Dichloropropene	<22		100	22	ug/Kg	☼	03/30/15 00:00	04/09/15 18:23	50
Trichloroethene	<19		52	19	ug/Kg	☼	03/30/15 00:00	04/09/15 18:23	50
Trichlorofluoromethane	<43		210	43	ug/Kg	☼	03/30/15 00:00	04/09/15 18:23	50
Vinyl chloride	<11		26	11	ug/Kg	☼	03/30/15 00:00	04/09/15 18:23	50
Xylenes, Total	<7.1		52	7.1	ug/Kg	☼	03/30/15 00:00	04/09/15 18:23	50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	107		75 - 125	03/30/15 00:00	04/09/15 18:23	50
4-Bromofluorobenzene (Surr)	104		75 - 120	03/30/15 00:00	04/09/15 18:23	50
Dibromofluoromethane	99		75 - 120	03/30/15 00:00	04/09/15 18:23	50
Toluene-d8 (Surr)	98		75 - 120	03/30/15 00:00	04/09/15 18:23	50

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	<12		51	12	ug/Kg	☼	04/03/15 07:28	04/08/15 14:52	1
2-Methylnaphthalene	<9.4		51	9.4	ug/Kg	☼	04/03/15 07:28	04/08/15 14:52	1
Acenaphthene	<9.2		51	9.2	ug/Kg	☼	04/03/15 07:28	04/08/15 14:52	1
Acenaphthylene	<6.7		51	6.7	ug/Kg	☼	04/03/15 07:28	04/08/15 14:52	1
Anthracene	<8.5		51	8.5	ug/Kg	☼	04/03/15 07:28	04/08/15 14:52	1
Benzo[a]anthracene	<6.9		51	6.9	ug/Kg	☼	04/03/15 07:28	04/08/15 14:52	1
Benzo[a]pyrene	<9.9		51	9.9	ug/Kg	☼	04/03/15 07:28	04/08/15 14:52	1
Benzo[b]fluoranthene	<11		51	11	ug/Kg	☼	04/03/15 07:28	04/08/15 14:52	1
Benzo[g,h,i]perylene	<16		51	16	ug/Kg	☼	04/03/15 07:28	04/08/15 14:52	1
Benzo[k]fluoranthene	<15		51	15	ug/Kg	☼	04/03/15 07:28	04/08/15 14:52	1
Chrysene	<14		51	14	ug/Kg	☼	04/03/15 07:28	04/08/15 14:52	1
Dibenz[a,h]anthracene	<9.9		51	9.9	ug/Kg	☼	04/03/15 07:28	04/08/15 14:52	1
Fluoranthene	<9.5		51	9.5	ug/Kg	☼	04/03/15 07:28	04/08/15 14:52	1
Fluorene	<7.2		51	7.2	ug/Kg	☼	04/03/15 07:28	04/08/15 14:52	1
Indeno[1,2,3-cd]pyrene	<13		51	13	ug/Kg	☼	04/03/15 07:28	04/08/15 14:52	1
Naphthalene	<7.9		51	7.9	ug/Kg	☼	04/03/15 07:28	04/08/15 14:52	1
Phenanthrene	<7.1		51	7.1	ug/Kg	☼	04/03/15 07:28	04/08/15 14:52	1
Pyrene	<10		51	10	ug/Kg	☼	04/03/15 07:28	04/08/15 14:52	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	34		25 - 119	04/03/15 07:28	04/08/15 14:52	1
Nitrobenzene-d5 (Surr)	23	X	25 - 115	04/03/15 07:28	04/08/15 14:52	1
Terphenyl-d14 (Surr)	111		36 - 134	04/03/15 07:28	04/08/15 14:52	1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<8.8		25	8.8	ug/Kg	☼	04/03/15 07:22	04/04/15 11:39	1
PCB-1221	<11		25	11	ug/Kg	☼	04/03/15 07:22	04/04/15 11:39	1
PCB-1232	<11		25	11	ug/Kg	☼	04/03/15 07:22	04/04/15 11:39	1
PCB-1242	<8.2		25	8.2	ug/Kg	☼	04/03/15 07:22	04/04/15 11:39	1

TestAmerica Chicago

Client Sample Results

Client: TRC Environmental Corporation.
Project/Site: Former CMC Shops Wheelhouse 232269

TestAmerica Job ID: 500-94066-1

Client Sample ID: GP-6 (4-6)

Lab Sample ID: 500-94066-13

Date Collected: 03/30/15 00:00

Matrix: Solid

Date Received: 04/02/15 09:30

Percent Solids: 64.6

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1248	<9.8		25	9.8	ug/Kg	☼	04/03/15 07:22	04/04/15 11:39	1
PCB-1254	<5.4		25	5.4	ug/Kg	☼	04/03/15 07:22	04/04/15 11:39	1
PCB-1260	<12		25	12	ug/Kg	☼	04/03/15 07:22	04/04/15 11:39	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	77		50 - 116				04/03/15 07:22	04/04/15 11:39	1
DCB Decachlorobiphenyl	71		48 - 142				04/03/15 07:22	04/04/15 11:39	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	6.4		1.5	0.69	mg/Kg	☼	04/05/15 18:00	04/06/15 16:02	1
Barium	140		1.5	0.27	mg/Kg	☼	04/05/15 18:00	04/06/15 16:02	1
Cadmium	0.43		0.30	0.087	mg/Kg	☼	04/05/15 18:00	04/06/15 16:02	1
Chromium	24		1.5	0.26	mg/Kg	☼	04/05/15 18:00	04/06/15 16:02	1
Lead	16		0.75	0.37	mg/Kg	☼	04/05/15 18:00	04/06/15 16:02	1
Selenium	1.2 J		1.5	0.74	mg/Kg	☼	04/05/15 18:00	04/06/15 16:02	1
Silver	<0.18		0.75	0.18	mg/Kg	☼	04/05/15 18:00	04/06/15 16:02	1

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.079		0.024	0.0084	mg/Kg	☼	04/03/15 14:00	04/06/15 09:36	1

Client Sample ID: GP-6 (10-12)

Lab Sample ID: 500-94066-14

Date Collected: 03/30/15 00:00

Matrix: Solid

Date Received: 04/02/15 09:30

Percent Solids: 73.3

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<30		170	30	ug/Kg	☼	03/30/15 00:00	04/09/15 18:51	50
1,1,1-Trichloroethane	<17		87	17	ug/Kg	☼	03/30/15 00:00	04/09/15 18:51	50
1,1,2,2-Tetrachloroethane	<20		87	20	ug/Kg	☼	03/30/15 00:00	04/09/15 18:51	50
1,1,2-Trichloroethane	<24		87	24	ug/Kg	☼	03/30/15 00:00	04/09/15 18:51	50
1,1-Dichloroethane	<16		87	16	ug/Kg	☼	03/30/15 00:00	04/09/15 18:51	50
1,1-Dichloroethene	<27		87	27	ug/Kg	☼	03/30/15 00:00	04/09/15 18:51	50
1,1-Dichloropropene	<30		87	30	ug/Kg	☼	03/30/15 00:00	04/09/15 18:51	50
1,2,3-Trichlorobenzene	<30		170	30	ug/Kg	☼	03/30/15 00:00	04/09/15 18:51	50
1,2,3-Trichloropropane	<50		170	50	ug/Kg	☼	03/30/15 00:00	04/09/15 18:51	50
1,2,4-Trichlorobenzene	<33		170	33	ug/Kg	☼	03/30/15 00:00	04/09/15 18:51	50
1,2,4-Trimethylbenzene	<18		170	18	ug/Kg	☼	03/30/15 00:00	04/09/15 18:51	50
1,2-Dibromo-3-Chloropropane	<75		170	75	ug/Kg	☼	03/30/15 00:00	04/09/15 18:51	50
1,2-Dibromoethane	<27		170	27	ug/Kg	☼	03/30/15 00:00	04/09/15 18:51	50
1,2-Dichlorobenzene	<18		170	18	ug/Kg	☼	03/30/15 00:00	04/09/15 18:51	50
1,2-Dichloroethane	<25		87	25	ug/Kg	☼	03/30/15 00:00	04/09/15 18:51	50
1,2-Dichloropropane	<17		87	17	ug/Kg	☼	03/30/15 00:00	04/09/15 18:51	50
1,3,5-Trimethylbenzene	<18		170	18	ug/Kg	☼	03/30/15 00:00	04/09/15 18:51	50
1,3-Dichlorobenzene	<22		170	22	ug/Kg	☼	03/30/15 00:00	04/09/15 18:51	50
1,3-Dichloropropane	<12		87	12	ug/Kg	☼	03/30/15 00:00	04/09/15 18:51	50
1,4-Dichlorobenzene	<15		170	15	ug/Kg	☼	03/30/15 00:00	04/09/15 18:51	50
2,2-Dichloropropane	<27		87	27	ug/Kg	☼	03/30/15 00:00	04/09/15 18:51	50
2-Chlorotoluene	<18		87	18	ug/Kg	☼	03/30/15 00:00	04/09/15 18:51	50

TestAmerica Chicago

Client Sample Results

Client: TRC Environmental Corporation.
Project/Site: Former CMC Shops Wheelhouse 232269

TestAmerica Job ID: 500-94066-1

Client Sample ID: GP-6 (10-12)

Lab Sample ID: 500-94066-14

Date Collected: 03/30/15 00:00

Matrix: Solid

Date Received: 04/02/15 09:30

Percent Solids: 73.3

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Chlorotoluene	<17		87	17	ug/Kg	☼	03/30/15 00:00	04/09/15 18:51	50
Benzene	<6.4		22	6.4	ug/Kg	☼	03/30/15 00:00	04/09/15 18:51	50
Bromobenzene	<37		170	37	ug/Kg	☼	03/30/15 00:00	04/09/15 18:51	50
Bromochloromethane	<33		170	33	ug/Kg	☼	03/30/15 00:00	04/09/15 18:51	50
Bromodichloromethane	<29		170	29	ug/Kg	☼	03/30/15 00:00	04/09/15 18:51	50
Bromoform	<38		170	38	ug/Kg	☼	03/30/15 00:00	04/09/15 18:51	50
Bromomethane	<59		170	59	ug/Kg	☼	03/30/15 00:00	04/09/15 18:51	50
Carbon tetrachloride	<22		87	22	ug/Kg	☼	03/30/15 00:00	04/09/15 18:51	50
Chlorobenzene	<12		87	12	ug/Kg	☼	03/30/15 00:00	04/09/15 18:51	50
Chloroethane	<38		170	38	ug/Kg	☼	03/30/15 00:00	04/09/15 18:51	50
Chloroform	<18		87	18	ug/Kg	☼	03/30/15 00:00	04/09/15 18:51	50
Chloromethane	<40		170	40	ug/Kg	☼	03/30/15 00:00	04/09/15 18:51	50
cis-1,2-Dichloroethene	<11		87	11	ug/Kg	☼	03/30/15 00:00	04/09/15 18:51	50
cis-1,3-Dichloropropene	<15		87	15	ug/Kg	☼	03/30/15 00:00	04/09/15 18:51	50
Dibromochloromethane	<30		170	30	ug/Kg	☼	03/30/15 00:00	04/09/15 18:51	50
Dibromomethane	<42		170	42	ug/Kg	☼	03/30/15 00:00	04/09/15 18:51	50
Dichlorodifluoromethane	<44		170	44	ug/Kg	☼	03/30/15 00:00	04/09/15 18:51	50
Ethylbenzene	<11		22	11	ug/Kg	☼	03/30/15 00:00	04/09/15 18:51	50
Hexachlorobutadiene	<30		170	30	ug/Kg	☼	03/30/15 00:00	04/09/15 18:51	50
Isopropyl ether	<13		170	13	ug/Kg	☼	03/30/15 00:00	04/09/15 18:51	50
Isopropylbenzene	<22		170	22	ug/Kg	☼	03/30/15 00:00	04/09/15 18:51	50
Methyl tert-butyl ether	<37		170	37	ug/Kg	☼	03/30/15 00:00	04/09/15 18:51	50
Methylene Chloride	<59		430	59	ug/Kg	☼	03/30/15 00:00	04/09/15 18:51	50
Naphthalene	<43		170	43	ug/Kg	☼	03/30/15 00:00	04/09/15 18:51	50
n-Butylbenzene	<11		87	11	ug/Kg	☼	03/30/15 00:00	04/09/15 18:51	50
N-Propylbenzene	<15		170	15	ug/Kg	☼	03/30/15 00:00	04/09/15 18:51	50
p-Isopropyltoluene	<16		170	16	ug/Kg	☼	03/30/15 00:00	04/09/15 18:51	50
sec-Butylbenzene	<13		87	13	ug/Kg	☼	03/30/15 00:00	04/09/15 18:51	50
Styrene	<8.6		87	8.6	ug/Kg	☼	03/30/15 00:00	04/09/15 18:51	50
tert-Butylbenzene	<12		87	12	ug/Kg	☼	03/30/15 00:00	04/09/15 18:51	50
Tetrachloroethene	<14		87	14	ug/Kg	☼	03/30/15 00:00	04/09/15 18:51	50
Toluene	<10		22	10	ug/Kg	☼	03/30/15 00:00	04/09/15 18:51	50
trans-1,2-Dichloroethene	<22		87	22	ug/Kg	☼	03/30/15 00:00	04/09/15 18:51	50
trans-1,3-Dichloropropene	<18		87	18	ug/Kg	☼	03/30/15 00:00	04/09/15 18:51	50
Trichloroethene	<16		43	16	ug/Kg	☼	03/30/15 00:00	04/09/15 18:51	50
Trichlorofluoromethane	<36		170	36	ug/Kg	☼	03/30/15 00:00	04/09/15 18:51	50
Vinyl chloride	<9.0		22	9.0	ug/Kg	☼	03/30/15 00:00	04/09/15 18:51	50
Xylenes, Total	<5.9		43	5.9	ug/Kg	☼	03/30/15 00:00	04/09/15 18:51	50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	108		75 - 125	03/30/15 00:00	04/09/15 18:51	50
4-Bromofluorobenzene (Surr)	108		75 - 120	03/30/15 00:00	04/09/15 18:51	50
Dibromofluoromethane	99		75 - 120	03/30/15 00:00	04/09/15 18:51	50
Toluene-d8 (Surr)	99		75 - 120	03/30/15 00:00	04/09/15 18:51	50

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	<11		44	11	ug/Kg	☼	04/03/15 07:28	04/08/15 15:13	1
2-Methylnaphthalene	<8.1		44	8.1	ug/Kg	☼	04/03/15 07:28	04/08/15 15:13	1
Acenaphthene	<7.9		44	7.9	ug/Kg	☼	04/03/15 07:28	04/08/15 15:13	1

TestAmerica Chicago

Client Sample Results

Client: TRC Environmental Corporation.
Project/Site: Former CMC Shops Wheelhouse 232269

TestAmerica Job ID: 500-94066-1

Client Sample ID: GP-6 (10-12)

Lab Sample ID: 500-94066-14

Date Collected: 03/30/15 00:00

Matrix: Solid

Date Received: 04/02/15 09:30

Percent Solids: 73.3

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthylene	<5.8		44	5.8	ug/Kg	☼	04/03/15 07:28	04/08/15 15:13	1
Anthracene	<7.4		44	7.4	ug/Kg	☼	04/03/15 07:28	04/08/15 15:13	1
Benzo[a]anthracene	<6.0		44	6.0	ug/Kg	☼	04/03/15 07:28	04/08/15 15:13	1
Benzo[a]pyrene	<8.6		44	8.6	ug/Kg	☼	04/03/15 07:28	04/08/15 15:13	1
Benzo[b]fluoranthene	<9.5		44	9.5	ug/Kg	☼	04/03/15 07:28	04/08/15 15:13	1
Benzo[g,h,i]perylene	<14		44	14	ug/Kg	☼	04/03/15 07:28	04/08/15 15:13	1
Benzo[k]fluoranthene	<13		44	13	ug/Kg	☼	04/03/15 07:28	04/08/15 15:13	1
Chrysene	<12		44	12	ug/Kg	☼	04/03/15 07:28	04/08/15 15:13	1
Dibenz[a,h]anthracene	<8.5		44	8.5	ug/Kg	☼	04/03/15 07:28	04/08/15 15:13	1
Fluoranthene	<8.2		44	8.2	ug/Kg	☼	04/03/15 07:28	04/08/15 15:13	1
Fluorene	<6.2		44	6.2	ug/Kg	☼	04/03/15 07:28	04/08/15 15:13	1
Indeno[1,2,3-cd]pyrene	<11		44	11	ug/Kg	☼	04/03/15 07:28	04/08/15 15:13	1
Naphthalene	<6.8		44	6.8	ug/Kg	☼	04/03/15 07:28	04/08/15 15:13	1
Phenanthrene	<6.2		44	6.2	ug/Kg	☼	04/03/15 07:28	04/08/15 15:13	1
Pyrene	<8.8		44	8.8	ug/Kg	☼	04/03/15 07:28	04/08/15 15:13	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	38		25 - 119	04/03/15 07:28	04/08/15 15:13	1
Nitrobenzene-d5 (Surr)	26		25 - 115	04/03/15 07:28	04/08/15 15:13	1
Terphenyl-d14 (Surr)	90		36 - 134	04/03/15 07:28	04/08/15 15:13	1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<7.7		22	7.7	ug/Kg	☼	04/03/15 07:22	04/04/15 11:52	1
PCB-1221	<9.5		22	9.5	ug/Kg	☼	04/03/15 07:22	04/04/15 11:52	1
PCB-1232	<9.4		22	9.4	ug/Kg	☼	04/03/15 07:22	04/04/15 11:52	1
PCB-1242	<7.1		22	7.1	ug/Kg	☼	04/03/15 07:22	04/04/15 11:52	1
PCB-1248	<8.5		22	8.5	ug/Kg	☼	04/03/15 07:22	04/04/15 11:52	1
PCB-1254	<4.7		22	4.7	ug/Kg	☼	04/03/15 07:22	04/04/15 11:52	1
PCB-1260	<11		22	11	ug/Kg	☼	04/03/15 07:22	04/04/15 11:52	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	80		50 - 116	04/03/15 07:22	04/04/15 11:52	1
DCB Decachlorobiphenyl	74		48 - 142	04/03/15 07:22	04/04/15 11:52	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	3.3		1.3	0.59	mg/Kg	☼	04/05/15 18:00	04/06/15 16:07	1
Barium	44		1.3	0.23	mg/Kg	☼	04/05/15 18:00	04/06/15 16:07	1
Cadmium	0.26		0.26	0.074	mg/Kg	☼	04/05/15 18:00	04/06/15 16:07	1
Chromium	12		1.3	0.22	mg/Kg	☼	04/05/15 18:00	04/06/15 16:07	1
Lead	7.7		0.64	0.32	mg/Kg	☼	04/05/15 18:00	04/06/15 16:07	1
Selenium	2.4		1.3	0.63	mg/Kg	☼	04/05/15 18:00	04/06/15 16:07	1
Silver	<0.15		0.64	0.15	mg/Kg	☼	04/05/15 18:00	04/06/15 16:07	1

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.022		0.020	0.0071	mg/Kg	☼	04/03/15 14:00	04/06/15 09:38	1

TestAmerica Chicago

Client Sample Results

Client: TRC Environmental Corporation.
Project/Site: Former CMC Shops Wheelhouse 232269

TestAmerica Job ID: 500-94066-1

Client Sample ID: GP-6 (14-16)

Lab Sample ID: 500-94066-15

Date Collected: 03/30/15 00:00

Matrix: Solid

Date Received: 04/02/15 09:30

Percent Solids: 77.8

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<27		160	27	ug/Kg	☼	03/30/15 00:00	04/09/15 19:19	50
1,1,1-Trichloroethane	<16		79	16	ug/Kg	☼	03/30/15 00:00	04/09/15 19:19	50
1,1,2,2-Tetrachloroethane	<19		79	19	ug/Kg	☼	03/30/15 00:00	04/09/15 19:19	50
1,1,2-Trichloroethane	<22		79	22	ug/Kg	☼	03/30/15 00:00	04/09/15 19:19	50
1,1-Dichloroethane	<15		79	15	ug/Kg	☼	03/30/15 00:00	04/09/15 19:19	50
1,1-Dichloroethene	<24		79	24	ug/Kg	☼	03/30/15 00:00	04/09/15 19:19	50
1,1-Dichloropropene	<27		79	27	ug/Kg	☼	03/30/15 00:00	04/09/15 19:19	50
1,2,3-Trichlorobenzene	<28		160	28	ug/Kg	☼	03/30/15 00:00	04/09/15 19:19	50
1,2,3-Trichloropropane	<46		160	46	ug/Kg	☼	03/30/15 00:00	04/09/15 19:19	50
1,2,4-Trichlorobenzene	<30		160	30	ug/Kg	☼	03/30/15 00:00	04/09/15 19:19	50
1,2,4-Trimethylbenzene	<17		160	17	ug/Kg	☼	03/30/15 00:00	04/09/15 19:19	50
1,2-Dibromo-3-Chloropropane	<69		160	69	ug/Kg	☼	03/30/15 00:00	04/09/15 19:19	50
1,2-Dibromoethane	<25		160	25	ug/Kg	☼	03/30/15 00:00	04/09/15 19:19	50
1,2-Dichlorobenzene	<16		160	16	ug/Kg	☼	03/30/15 00:00	04/09/15 19:19	50
1,2-Dichloroethane	<23		79	23	ug/Kg	☼	03/30/15 00:00	04/09/15 19:19	50
1,2-Dichloropropane	<16		79	16	ug/Kg	☼	03/30/15 00:00	04/09/15 19:19	50
1,3,5-Trimethylbenzene	<16		160	16	ug/Kg	☼	03/30/15 00:00	04/09/15 19:19	50
1,3-Dichlorobenzene	<20		160	20	ug/Kg	☼	03/30/15 00:00	04/09/15 19:19	50
1,3-Dichloropropane	<11		79	11	ug/Kg	☼	03/30/15 00:00	04/09/15 19:19	50
1,4-Dichlorobenzene	<14		160	14	ug/Kg	☼	03/30/15 00:00	04/09/15 19:19	50
2,2-Dichloropropane	<25		79	25	ug/Kg	☼	03/30/15 00:00	04/09/15 19:19	50
2-Chlorotoluene	<16		79	16	ug/Kg	☼	03/30/15 00:00	04/09/15 19:19	50
4-Chlorotoluene	<16		79	16	ug/Kg	☼	03/30/15 00:00	04/09/15 19:19	50
Benzene	<5.9		20	5.9	ug/Kg	☼	03/30/15 00:00	04/09/15 19:19	50
Bromobenzene	<34		160	34	ug/Kg	☼	03/30/15 00:00	04/09/15 19:19	50
Bromochloromethane	<30		160	30	ug/Kg	☼	03/30/15 00:00	04/09/15 19:19	50
Bromodichloromethane	<27		160	27	ug/Kg	☼	03/30/15 00:00	04/09/15 19:19	50
Bromoform	<35		160	35	ug/Kg	☼	03/30/15 00:00	04/09/15 19:19	50
Bromomethane	<54		160	54	ug/Kg	☼	03/30/15 00:00	04/09/15 19:19	50
Carbon tetrachloride	<20		79	20	ug/Kg	☼	03/30/15 00:00	04/09/15 19:19	50
Chlorobenzene	<11		79	11	ug/Kg	☼	03/30/15 00:00	04/09/15 19:19	50
Chloroethane	<35		160	35	ug/Kg	☼	03/30/15 00:00	04/09/15 19:19	50
Chloroform	<16		79	16	ug/Kg	☼	03/30/15 00:00	04/09/15 19:19	50
Chloromethane	<37		160	37	ug/Kg	☼	03/30/15 00:00	04/09/15 19:19	50
cis-1,2-Dichloroethene	<9.8		79	9.8	ug/Kg	☼	03/30/15 00:00	04/09/15 19:19	50
cis-1,3-Dichloropropene	<14		79	14	ug/Kg	☼	03/30/15 00:00	04/09/15 19:19	50
Dibromochloromethane	<27		160	27	ug/Kg	☼	03/30/15 00:00	04/09/15 19:19	50
Dibromomethane	<38		160	38	ug/Kg	☼	03/30/15 00:00	04/09/15 19:19	50
Dichlorodifluoromethane	<41		160	41	ug/Kg	☼	03/30/15 00:00	04/09/15 19:19	50
Ethylbenzene	<10		20	10	ug/Kg	☼	03/30/15 00:00	04/09/15 19:19	50
Hexachlorobutadiene	<27		160	27	ug/Kg	☼	03/30/15 00:00	04/09/15 19:19	50
Isopropyl ether	<12		160	12	ug/Kg	☼	03/30/15 00:00	04/09/15 19:19	50
Isopropylbenzene	<20		160	20	ug/Kg	☼	03/30/15 00:00	04/09/15 19:19	50
Methyl tert-butyl ether	<34		160	34	ug/Kg	☼	03/30/15 00:00	04/09/15 19:19	50
Methylene Chloride	<54		400	54	ug/Kg	☼	03/30/15 00:00	04/09/15 19:19	50
Naphthalene	<39		160	39	ug/Kg	☼	03/30/15 00:00	04/09/15 19:19	50
n-Butylbenzene	<10		79	10	ug/Kg	☼	03/30/15 00:00	04/09/15 19:19	50
N-Propylbenzene	<14		160	14	ug/Kg	☼	03/30/15 00:00	04/09/15 19:19	50
p-Isopropyltoluene	<15		160	15	ug/Kg	☼	03/30/15 00:00	04/09/15 19:19	50

TestAmerica Chicago

Client Sample Results

Client: TRC Environmental Corporation.
Project/Site: Former CMC Shops Wheelhouse 232269

TestAmerica Job ID: 500-94066-1

Client Sample ID: GP-6 (14-16)

Lab Sample ID: 500-94066-15

Date Collected: 03/30/15 00:00

Matrix: Solid

Date Received: 04/02/15 09:30

Percent Solids: 77.8

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	<12		79	12	ug/Kg	☼	03/30/15 00:00	04/09/15 19:19	50
Styrene	<7.8		79	7.8	ug/Kg	☼	03/30/15 00:00	04/09/15 19:19	50
tert-Butylbenzene	<11		79	11	ug/Kg	☼	03/30/15 00:00	04/09/15 19:19	50
Tetrachloroethene	<13		79	13	ug/Kg	☼	03/30/15 00:00	04/09/15 19:19	50
Toluene	<9.1		20	9.1	ug/Kg	☼	03/30/15 00:00	04/09/15 19:19	50
trans-1,2-Dichloroethene	<20		79	20	ug/Kg	☼	03/30/15 00:00	04/09/15 19:19	50
trans-1,3-Dichloropropene	<17		79	17	ug/Kg	☼	03/30/15 00:00	04/09/15 19:19	50
Trichloroethene	<15		40	15	ug/Kg	☼	03/30/15 00:00	04/09/15 19:19	50
Trichlorofluoromethane	<33		160	33	ug/Kg	☼	03/30/15 00:00	04/09/15 19:19	50
Vinyl chloride	<8.3		20	8.3	ug/Kg	☼	03/30/15 00:00	04/09/15 19:19	50
Xylenes, Total	<5.4		40	5.4	ug/Kg	☼	03/30/15 00:00	04/09/15 19:19	50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	110		75 - 125	03/30/15 00:00	04/09/15 19:19	50
4-Bromofluorobenzene (Surr)	106		75 - 120	03/30/15 00:00	04/09/15 19:19	50
Dibromofluoromethane	102		75 - 120	03/30/15 00:00	04/09/15 19:19	50
Toluene-d8 (Surr)	101		75 - 120	03/30/15 00:00	04/09/15 19:19	50

Client Sample ID: GP-7 (4-6)

Lab Sample ID: 500-94066-16

Date Collected: 03/30/15 00:00

Matrix: Solid

Date Received: 04/02/15 09:30

Percent Solids: 80.8

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<26		150	26	ug/Kg	☼	03/30/15 00:00	04/09/15 19:47	50
1,1,1-Trichloroethane	<15		74	15	ug/Kg	☼	03/30/15 00:00	04/09/15 19:47	50
1,1,2,2-Tetrachloroethane	<17		74	17	ug/Kg	☼	03/30/15 00:00	04/09/15 19:47	50
1,1,2-Trichloroethane	<21		74	21	ug/Kg	☼	03/30/15 00:00	04/09/15 19:47	50
1,1-Dichloroethane	<14		74	14	ug/Kg	☼	03/30/15 00:00	04/09/15 19:47	50
1,1-Dichloroethene	<23		74	23	ug/Kg	☼	03/30/15 00:00	04/09/15 19:47	50
1,1-Dichloropropene	<26		74	26	ug/Kg	☼	03/30/15 00:00	04/09/15 19:47	50
1,2,3-Trichlorobenzene	<26		150	26	ug/Kg	☼	03/30/15 00:00	04/09/15 19:47	50
1,2,3-Trichloropropane	<43		150	43	ug/Kg	☼	03/30/15 00:00	04/09/15 19:47	50
1,2,4-Trichlorobenzene	<28		150	28	ug/Kg	☼	03/30/15 00:00	04/09/15 19:47	50
1,2,4-Trimethylbenzene	<16		150	16	ug/Kg	☼	03/30/15 00:00	04/09/15 19:47	50
1,2-Dibromo-3-Chloropropane	<65		150	65	ug/Kg	☼	03/30/15 00:00	04/09/15 19:47	50
1,2-Dibromoethane	<23		150	23	ug/Kg	☼	03/30/15 00:00	04/09/15 19:47	50
1,2-Dichlorobenzene	<15		150	15	ug/Kg	☼	03/30/15 00:00	04/09/15 19:47	50
1,2-Dichloroethane	<21		74	21	ug/Kg	☼	03/30/15 00:00	04/09/15 19:47	50
1,2-Dichloropropane	<15		74	15	ug/Kg	☼	03/30/15 00:00	04/09/15 19:47	50
1,3,5-Trimethylbenzene	<15		150	15	ug/Kg	☼	03/30/15 00:00	04/09/15 19:47	50
1,3-Dichlorobenzene	<19		150	19	ug/Kg	☼	03/30/15 00:00	04/09/15 19:47	50
1,3-Dichloropropane	<9.9		74	9.9	ug/Kg	☼	03/30/15 00:00	04/09/15 19:47	50
1,4-Dichlorobenzene	<13		150	13	ug/Kg	☼	03/30/15 00:00	04/09/15 19:47	50
2,2-Dichloropropane	<23		74	23	ug/Kg	☼	03/30/15 00:00	04/09/15 19:47	50
2-Chlorotoluene	<15		74	15	ug/Kg	☼	03/30/15 00:00	04/09/15 19:47	50
4-Chlorotoluene	<15		74	15	ug/Kg	☼	03/30/15 00:00	04/09/15 19:47	50
Benzene	<5.5		19	5.5	ug/Kg	☼	03/30/15 00:00	04/09/15 19:47	50
Bromobenzene	<32		150	32	ug/Kg	☼	03/30/15 00:00	04/09/15 19:47	50
Bromochloromethane	<28		150	28	ug/Kg	☼	03/30/15 00:00	04/09/15 19:47	50

TestAmerica Chicago

Client Sample Results

Client: TRC Environmental Corporation.
Project/Site: Former CMC Shops Wheelhouse 232269

TestAmerica Job ID: 500-94066-1

Client Sample ID: GP-7 (4-6)

Lab Sample ID: 500-94066-16

Date Collected: 03/30/15 00:00

Matrix: Solid

Date Received: 04/02/15 09:30

Percent Solids: 80.8

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromodichloromethane	<25		150	25	ug/Kg	☼	03/30/15 00:00	04/09/15 19:47	50
Bromoform	<33		150	33	ug/Kg	☼	03/30/15 00:00	04/09/15 19:47	50
Bromomethane	<51		150	51	ug/Kg	☼	03/30/15 00:00	04/09/15 19:47	50
Carbon tetrachloride	<19		74	19	ug/Kg	☼	03/30/15 00:00	04/09/15 19:47	50
Chlorobenzene	<11		74	11	ug/Kg	☼	03/30/15 00:00	04/09/15 19:47	50
Chloroethane	<32		150	32	ug/Kg	☼	03/30/15 00:00	04/09/15 19:47	50
Chloroform	<15		74	15	ug/Kg	☼	03/30/15 00:00	04/09/15 19:47	50
Chloromethane	<34		150	34	ug/Kg	☼	03/30/15 00:00	04/09/15 19:47	50
cis-1,2-Dichloroethene	<9.1		74	9.1	ug/Kg	☼	03/30/15 00:00	04/09/15 19:47	50
cis-1,3-Dichloropropene	<13		74	13	ug/Kg	☼	03/30/15 00:00	04/09/15 19:47	50
Dibromochloromethane	<26		150	26	ug/Kg	☼	03/30/15 00:00	04/09/15 19:47	50
Dibromomethane	<36		150	36	ug/Kg	☼	03/30/15 00:00	04/09/15 19:47	50
Dichlorodifluoromethane	<38		150	38	ug/Kg	☼	03/30/15 00:00	04/09/15 19:47	50
Ethylbenzene	<9.4		19	9.4	ug/Kg	☼	03/30/15 00:00	04/09/15 19:47	50
Hexachlorobutadiene	<26		150	26	ug/Kg	☼	03/30/15 00:00	04/09/15 19:47	50
Isopropyl ether	<11		150	11	ug/Kg	☼	03/30/15 00:00	04/09/15 19:47	50
Isopropylbenzene	<19		150	19	ug/Kg	☼	03/30/15 00:00	04/09/15 19:47	50
Methyl tert-butyl ether	<32		150	32	ug/Kg	☼	03/30/15 00:00	04/09/15 19:47	50
Methylene Chloride	<51		370	51	ug/Kg	☼	03/30/15 00:00	04/09/15 19:47	50
Naphthalene	<37		150	37	ug/Kg	☼	03/30/15 00:00	04/09/15 19:47	50
n-Butylbenzene	<9.6		74	9.6	ug/Kg	☼	03/30/15 00:00	04/09/15 19:47	50
N-Propylbenzene	<13		150	13	ug/Kg	☼	03/30/15 00:00	04/09/15 19:47	50
p-Isopropyltoluene	<14		150	14	ug/Kg	☼	03/30/15 00:00	04/09/15 19:47	50
sec-Butylbenzene	<11		74	11	ug/Kg	☼	03/30/15 00:00	04/09/15 19:47	50
Styrene	<7.3		74	7.3	ug/Kg	☼	03/30/15 00:00	04/09/15 19:47	50
tert-Butylbenzene	<10		74	10	ug/Kg	☼	03/30/15 00:00	04/09/15 19:47	50
Tetrachloroethene	<12		74	12	ug/Kg	☼	03/30/15 00:00	04/09/15 19:47	50
Toluene	<8.5		19	8.5	ug/Kg	☼	03/30/15 00:00	04/09/15 19:47	50
trans-1,2-Dichloroethene	<19		74	19	ug/Kg	☼	03/30/15 00:00	04/09/15 19:47	50
trans-1,3-Dichloropropene	<15		74	15	ug/Kg	☼	03/30/15 00:00	04/09/15 19:47	50
Trichloroethene	<14		37	14	ug/Kg	☼	03/30/15 00:00	04/09/15 19:47	50
Trichlorofluoromethane	<31		150	31	ug/Kg	☼	03/30/15 00:00	04/09/15 19:47	50
Vinyl chloride	<7.7		19	7.7	ug/Kg	☼	03/30/15 00:00	04/09/15 19:47	50
Xylenes, Total	<5.1		37	5.1	ug/Kg	☼	03/30/15 00:00	04/09/15 19:47	50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	110		75 - 125	03/30/15 00:00	04/09/15 19:47	50
4-Bromofluorobenzene (Surr)	104		75 - 120	03/30/15 00:00	04/09/15 19:47	50
Dibromofluoromethane	101		75 - 120	03/30/15 00:00	04/09/15 19:47	50
Toluene-d8 (Surr)	99		75 - 120	03/30/15 00:00	04/09/15 19:47	50

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	<9.6		39	9.6	ug/Kg	☼	04/03/15 07:28	04/08/15 15:35	1
2-Methylnaphthalene	<7.2		39	7.2	ug/Kg	☼	04/03/15 07:28	04/08/15 15:35	1
Acenaphthene	<7.1		39	7.1	ug/Kg	☼	04/03/15 07:28	04/08/15 15:35	1
Acenaphthylene	<5.2		39	5.2	ug/Kg	☼	04/03/15 07:28	04/08/15 15:35	1
Anthracene	<6.6		39	6.6	ug/Kg	☼	04/03/15 07:28	04/08/15 15:35	1
Benzo[a]anthracene	<5.3		39	5.3	ug/Kg	☼	04/03/15 07:28	04/08/15 15:35	1
Benzo[a]pyrene	<7.6		39	7.6	ug/Kg	☼	04/03/15 07:28	04/08/15 15:35	1

TestAmerica Chicago

Client Sample Results

Client: TRC Environmental Corporation.
Project/Site: Former CMC Shops Wheelhouse 232269

TestAmerica Job ID: 500-94066-1

Client Sample ID: GP-7 (4-6)

Lab Sample ID: 500-94066-16

Date Collected: 03/30/15 00:00

Matrix: Solid

Date Received: 04/02/15 09:30

Percent Solids: 80.8

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[b]fluoranthene	<8.5		39	8.5	ug/Kg	☼	04/03/15 07:28	04/08/15 15:35	1
Benzo[g,h,i]perylene	<13		39	13	ug/Kg	☼	04/03/15 07:28	04/08/15 15:35	1
Benzo[k]fluoranthene	<12		39	12	ug/Kg	☼	04/03/15 07:28	04/08/15 15:35	1
Chrysene	<11		39	11	ug/Kg	☼	04/03/15 07:28	04/08/15 15:35	1
Dibenz[a,h]anthracene	<7.6		39	7.6	ug/Kg	☼	04/03/15 07:28	04/08/15 15:35	1
Fluoranthene	<7.3		39	7.3	ug/Kg	☼	04/03/15 07:28	04/08/15 15:35	1
Fluorene	<5.5		39	5.5	ug/Kg	☼	04/03/15 07:28	04/08/15 15:35	1
Indeno[1,2,3-cd]pyrene	<10		39	10	ug/Kg	☼	04/03/15 07:28	04/08/15 15:35	1
Naphthalene	<6.1		39	6.1	ug/Kg	☼	04/03/15 07:28	04/08/15 15:35	1
Phenanthrene	<5.5		39	5.5	ug/Kg	☼	04/03/15 07:28	04/08/15 15:35	1
Pyrene	<7.8		39	7.8	ug/Kg	☼	04/03/15 07:28	04/08/15 15:35	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	50		25 - 119	04/03/15 07:28	04/08/15 15:35	1
Nitrobenzene-d5 (Surr)	42		25 - 115	04/03/15 07:28	04/08/15 15:35	1
Terphenyl-d14 (Surr)	70		36 - 134	04/03/15 07:28	04/08/15 15:35	1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<7.3		21	7.3	ug/Kg	☼	04/03/15 07:22	04/04/15 12:06	1
PCB-1221	<9.0		21	9.0	ug/Kg	☼	04/03/15 07:22	04/04/15 12:06	1
PCB-1232	<9.0		21	9.0	ug/Kg	☼	04/03/15 07:22	04/04/15 12:06	1
PCB-1242	<6.7		21	6.7	ug/Kg	☼	04/03/15 07:22	04/04/15 12:06	1
PCB-1248	<8.1		21	8.1	ug/Kg	☼	04/03/15 07:22	04/04/15 12:06	1
PCB-1254	<4.4		21	4.4	ug/Kg	☼	04/03/15 07:22	04/04/15 12:06	1
PCB-1260	<10		21	10	ug/Kg	☼	04/03/15 07:22	04/04/15 12:06	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	82		50 - 116	04/03/15 07:22	04/04/15 12:06	1
DCB Decachlorobiphenyl	83		48 - 142	04/03/15 07:22	04/04/15 12:06	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	3.3		1.2	0.56	mg/Kg	☼	04/05/15 18:00	04/06/15 16:12	1
Barium	29		1.2	0.22	mg/Kg	☼	04/05/15 18:00	04/06/15 16:12	1
Cadmium	0.32		0.24	0.070	mg/Kg	☼	04/05/15 18:00	04/06/15 16:12	1
Chromium	8.8		1.2	0.21	mg/Kg	☼	04/05/15 18:00	04/06/15 16:12	1
Lead	5.2		0.60	0.30	mg/Kg	☼	04/05/15 18:00	04/06/15 16:12	1
Selenium	<0.60		1.2	0.60	mg/Kg	☼	04/05/15 18:00	04/06/15 16:12	1
Silver	<0.14		0.60	0.14	mg/Kg	☼	04/05/15 18:00	04/06/15 16:12	1

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.021		0.021	0.0072	mg/Kg	☼	04/03/15 14:00	04/06/15 09:40	1

TestAmerica Chicago

Client Sample Results

Client: TRC Environmental Corporation.
Project/Site: Former CMC Shops Wheelhouse 232269

TestAmerica Job ID: 500-94066-1

Client Sample ID: GP-7 (10-12)

Lab Sample ID: 500-94066-17

Date Collected: 03/30/15 00:00

Matrix: Solid

Date Received: 04/02/15 09:30

Percent Solids: 78.3

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<27		150	27	ug/Kg	☼	03/30/15 00:00	04/09/15 20:15	50
1,1,1-Trichloroethane	<16		77	16	ug/Kg	☼	03/30/15 00:00	04/09/15 20:15	50
1,1,2,2-Tetrachloroethane	<18		77	18	ug/Kg	☼	03/30/15 00:00	04/09/15 20:15	50
1,1,2-Trichloroethane	<22		77	22	ug/Kg	☼	03/30/15 00:00	04/09/15 20:15	50
1,1-Dichloroethane	<14		77	14	ug/Kg	☼	03/30/15 00:00	04/09/15 20:15	50
1,1-Dichloroethene	<24		77	24	ug/Kg	☼	03/30/15 00:00	04/09/15 20:15	50
1,1-Dichloropropene	<27		77	27	ug/Kg	☼	03/30/15 00:00	04/09/15 20:15	50
1,2,3-Trichlorobenzene	<27		150	27	ug/Kg	☼	03/30/15 00:00	04/09/15 20:15	50
1,2,3-Trichloropropane	<44		150	44	ug/Kg	☼	03/30/15 00:00	04/09/15 20:15	50
1,2,4-Trichlorobenzene	<29		150	29	ug/Kg	☼	03/30/15 00:00	04/09/15 20:15	50
1,2,4-Trimethylbenzene	<16		150	16	ug/Kg	☼	03/30/15 00:00	04/09/15 20:15	50
1,2-Dibromo-3-Chloropropane	<67		150	67	ug/Kg	☼	03/30/15 00:00	04/09/15 20:15	50
1,2-Dibromoethane	<24		150	24	ug/Kg	☼	03/30/15 00:00	04/09/15 20:15	50
1,2-Dichlorobenzene	<16		150	16	ug/Kg	☼	03/30/15 00:00	04/09/15 20:15	50
1,2-Dichloroethane	<22		77	22	ug/Kg	☼	03/30/15 00:00	04/09/15 20:15	50
1,2-Dichloropropane	<15		77	15	ug/Kg	☼	03/30/15 00:00	04/09/15 20:15	50
1,3,5-Trimethylbenzene	<16		150	16	ug/Kg	☼	03/30/15 00:00	04/09/15 20:15	50
1,3-Dichlorobenzene	<20		150	20	ug/Kg	☼	03/30/15 00:00	04/09/15 20:15	50
1,3-Dichloropropane	<10		77	10	ug/Kg	☼	03/30/15 00:00	04/09/15 20:15	50
1,4-Dichlorobenzene	<13		150	13	ug/Kg	☼	03/30/15 00:00	04/09/15 20:15	50
2,2-Dichloropropane	<24		77	24	ug/Kg	☼	03/30/15 00:00	04/09/15 20:15	50
2-Chlorotoluene	<16		77	16	ug/Kg	☼	03/30/15 00:00	04/09/15 20:15	50
4-Chlorotoluene	<15		77	15	ug/Kg	☼	03/30/15 00:00	04/09/15 20:15	50
Benzene	<5.7		19	5.7	ug/Kg	☼	03/30/15 00:00	04/09/15 20:15	50
Bromobenzene	<33		150	33	ug/Kg	☼	03/30/15 00:00	04/09/15 20:15	50
Bromochloromethane	<29		150	29	ug/Kg	☼	03/30/15 00:00	04/09/15 20:15	50
Bromodichloromethane	<26		150	26	ug/Kg	☼	03/30/15 00:00	04/09/15 20:15	50
Bromoform	<34		150	34	ug/Kg	☼	03/30/15 00:00	04/09/15 20:15	50
Bromomethane	<53		150	53	ug/Kg	☼	03/30/15 00:00	04/09/15 20:15	50
Carbon tetrachloride	<20		77	20	ug/Kg	☼	03/30/15 00:00	04/09/15 20:15	50
Chlorobenzene	<11		77	11	ug/Kg	☼	03/30/15 00:00	04/09/15 20:15	50
Chloroethane	<34		150	34	ug/Kg	☼	03/30/15 00:00	04/09/15 20:15	50
Chloroform	<16		77	16	ug/Kg	☼	03/30/15 00:00	04/09/15 20:15	50
Chloromethane	<36		150	36	ug/Kg	☼	03/30/15 00:00	04/09/15 20:15	50
cis-1,2-Dichloroethene	<9.5		77	9.5	ug/Kg	☼	03/30/15 00:00	04/09/15 20:15	50
cis-1,3-Dichloropropene	<14		77	14	ug/Kg	☼	03/30/15 00:00	04/09/15 20:15	50
Dibromochloromethane	<27		150	27	ug/Kg	☼	03/30/15 00:00	04/09/15 20:15	50
Dibromomethane	<37		150	37	ug/Kg	☼	03/30/15 00:00	04/09/15 20:15	50
Dichlorodifluoromethane	<40		150	40	ug/Kg	☼	03/30/15 00:00	04/09/15 20:15	50
Ethylbenzene	<9.7		19	9.7	ug/Kg	☼	03/30/15 00:00	04/09/15 20:15	50
Hexachlorobutadiene	<27		150	27	ug/Kg	☼	03/30/15 00:00	04/09/15 20:15	50
Isopropyl ether	<11		150	11	ug/Kg	☼	03/30/15 00:00	04/09/15 20:15	50
Isopropylbenzene	<19		150	19	ug/Kg	☼	03/30/15 00:00	04/09/15 20:15	50
Methyl tert-butyl ether	<33		150	33	ug/Kg	☼	03/30/15 00:00	04/09/15 20:15	50
Methylene Chloride	<53		390	53	ug/Kg	☼	03/30/15 00:00	04/09/15 20:15	50
Naphthalene	<38		150	38	ug/Kg	☼	03/30/15 00:00	04/09/15 20:15	50
n-Butylbenzene	<10		77	10	ug/Kg	☼	03/30/15 00:00	04/09/15 20:15	50
N-Propylbenzene	<13		150	13	ug/Kg	☼	03/30/15 00:00	04/09/15 20:15	50
p-Isopropyltoluene	<14		150	14	ug/Kg	☼	03/30/15 00:00	04/09/15 20:15	50

TestAmerica Chicago

Client Sample Results

Client: TRC Environmental Corporation.
Project/Site: Former CMC Shops Wheelhouse 232269

TestAmerica Job ID: 500-94066-1

Client Sample ID: GP-7 (10-12)

Lab Sample ID: 500-94066-17

Date Collected: 03/30/15 00:00

Matrix: Solid

Date Received: 04/02/15 09:30

Percent Solids: 78.3

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	<12		77	12	ug/Kg	☼	03/30/15 00:00	04/09/15 20:15	50
Styrene	<7.6		77	7.6	ug/Kg	☼	03/30/15 00:00	04/09/15 20:15	50
tert-Butylbenzene	<10		77	10	ug/Kg	☼	03/30/15 00:00	04/09/15 20:15	50
Tetrachloroethene	<13		77	13	ug/Kg	☼	03/30/15 00:00	04/09/15 20:15	50
Toluene	<8.9		19	8.9	ug/Kg	☼	03/30/15 00:00	04/09/15 20:15	50
trans-1,2-Dichloroethene	<19		77	19	ug/Kg	☼	03/30/15 00:00	04/09/15 20:15	50
trans-1,3-Dichloropropene	<16		77	16	ug/Kg	☼	03/30/15 00:00	04/09/15 20:15	50
Trichloroethene	<14		39	14	ug/Kg	☼	03/30/15 00:00	04/09/15 20:15	50
Trichlorofluoromethane	<32		150	32	ug/Kg	☼	03/30/15 00:00	04/09/15 20:15	50
Vinyl chloride	<8.0		19	8.0	ug/Kg	☼	03/30/15 00:00	04/09/15 20:15	50
Xylenes, Total	<5.3		39	5.3	ug/Kg	☼	03/30/15 00:00	04/09/15 20:15	50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	109		75 - 125	03/30/15 00:00	04/09/15 20:15	50
4-Bromofluorobenzene (Surr)	107		75 - 120	03/30/15 00:00	04/09/15 20:15	50
Dibromofluoromethane	104		75 - 120	03/30/15 00:00	04/09/15 20:15	50
Toluene-d8 (Surr)	98		75 - 120	03/30/15 00:00	04/09/15 20:15	50

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	<9.8		40	9.8	ug/Kg	☼	04/03/15 07:28	04/08/15 15:57	1
2-Methylnaphthalene	<7.4		40	7.4	ug/Kg	☼	04/03/15 07:28	04/08/15 15:57	1
Acenaphthene	<7.2		40	7.2	ug/Kg	☼	04/03/15 07:28	04/08/15 15:57	1
Acenaphthylene	<5.3		40	5.3	ug/Kg	☼	04/03/15 07:28	04/08/15 15:57	1
Anthracene	<6.7		40	6.7	ug/Kg	☼	04/03/15 07:28	04/08/15 15:57	1
Benzo[a]anthracene	<5.4		40	5.4	ug/Kg	☼	04/03/15 07:28	04/08/15 15:57	1
Benzo[a]pyrene	<7.8		40	7.8	ug/Kg	☼	04/03/15 07:28	04/08/15 15:57	1
Benzo[b]fluoranthene	<8.7		40	8.7	ug/Kg	☼	04/03/15 07:28	04/08/15 15:57	1
Benzo[g,h,i]perylene	<13		40	13	ug/Kg	☼	04/03/15 07:28	04/08/15 15:57	1
Benzo[k]fluoranthene	<12		40	12	ug/Kg	☼	04/03/15 07:28	04/08/15 15:57	1
Chrysene	<11		40	11	ug/Kg	☼	04/03/15 07:28	04/08/15 15:57	1
Dibenz(a,h)anthracene	<7.8		40	7.8	ug/Kg	☼	04/03/15 07:28	04/08/15 15:57	1
Fluoranthene	<7.5		40	7.5	ug/Kg	☼	04/03/15 07:28	04/08/15 15:57	1
Fluorene	<5.7		40	5.7	ug/Kg	☼	04/03/15 07:28	04/08/15 15:57	1
Indeno[1,2,3-cd]pyrene	<10		40	10	ug/Kg	☼	04/03/15 07:28	04/08/15 15:57	1
Naphthalene	<6.2		40	6.2	ug/Kg	☼	04/03/15 07:28	04/08/15 15:57	1
Phenanthrene	<5.6		40	5.6	ug/Kg	☼	04/03/15 07:28	04/08/15 15:57	1
Pyrene	<8.0		40	8.0	ug/Kg	☼	04/03/15 07:28	04/08/15 15:57	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	51		25 - 119	04/03/15 07:28	04/08/15 15:57	1
Nitrobenzene-d5 (Surr)	40		25 - 115	04/03/15 07:28	04/08/15 15:57	1
Terphenyl-d14 (Surr)	134		36 - 134	04/03/15 07:28	04/08/15 15:57	1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<7.4		21	7.4	ug/Kg	☼	04/03/15 07:22	04/04/15 12:20	1
PCB-1221	<9.2		21	9.2	ug/Kg	☼	04/03/15 07:22	04/04/15 12:20	1
PCB-1232	<9.1		21	9.1	ug/Kg	☼	04/03/15 07:22	04/04/15 12:20	1
PCB-1242	<6.9		21	6.9	ug/Kg	☼	04/03/15 07:22	04/04/15 12:20	1

TestAmerica Chicago

Client Sample Results

Client: TRC Environmental Corporation.
Project/Site: Former CMC Shops Wheelhouse 232269

TestAmerica Job ID: 500-94066-1

Client Sample ID: GP-7 (10-12)

Lab Sample ID: 500-94066-17

Date Collected: 03/30/15 00:00

Matrix: Solid

Date Received: 04/02/15 09:30

Percent Solids: 78.3

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1248	<8.3		21	8.3	ug/Kg	☼	04/03/15 07:22	04/04/15 12:20	1
PCB-1254	<4.5		21	4.5	ug/Kg	☼	04/03/15 07:22	04/04/15 12:20	1
PCB-1260	<10		21	10	ug/Kg	☼	04/03/15 07:22	04/04/15 12:20	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	83		50 - 116				04/03/15 07:22	04/04/15 12:20	1
DCB Decachlorobiphenyl	85		48 - 142				04/03/15 07:22	04/04/15 12:20	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	2.5		1.1	0.51	mg/Kg	☼	04/05/15 18:00	04/06/15 16:25	1
Barium	12		1.1	0.20	mg/Kg	☼	04/05/15 18:00	04/06/15 16:25	1
Cadmium	0.13	J	0.22	0.064	mg/Kg	☼	04/05/15 18:00	04/06/15 16:25	1
Chromium	7.8		1.1	0.19	mg/Kg	☼	04/05/15 18:00	04/06/15 16:25	1
Lead	4.5		0.55	0.27	mg/Kg	☼	04/05/15 18:00	04/06/15 16:25	1
Selenium	0.57	J	1.1	0.54	mg/Kg	☼	04/05/15 18:00	04/06/15 16:25	1
Silver	<0.13		0.55	0.13	mg/Kg	☼	04/05/15 18:00	04/06/15 16:25	1

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.0070		0.020	0.0070	mg/Kg	☼	04/03/15 14:00	04/06/15 09:42	1

Client Sample ID: GP-7 (14-16)

Lab Sample ID: 500-94066-18

Date Collected: 03/30/15 00:00

Matrix: Solid

Date Received: 04/02/15 09:30

Percent Solids: 70.9

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<31		180	31	ug/Kg	☼	03/30/15 00:00	04/09/15 20:42	50
1,1,1-Trichloroethane	<18		90	18	ug/Kg	☼	03/30/15 00:00	04/09/15 20:42	50
1,1,2,2-Tetrachloroethane	<21		90	21	ug/Kg	☼	03/30/15 00:00	04/09/15 20:42	50
1,1,2-Trichloroethane	<25		90	25	ug/Kg	☼	03/30/15 00:00	04/09/15 20:42	50
1,1-Dichloroethane	<17		90	17	ug/Kg	☼	03/30/15 00:00	04/09/15 20:42	50
1,1-Dichloroethene	<28		90	28	ug/Kg	☼	03/30/15 00:00	04/09/15 20:42	50
1,1-Dichloropropene	<31		90	31	ug/Kg	☼	03/30/15 00:00	04/09/15 20:42	50
1,2,3-Trichlorobenzene	<32		180	32	ug/Kg	☼	03/30/15 00:00	04/09/15 20:42	50
1,2,3-Trichloropropane	<52		180	52	ug/Kg	☼	03/30/15 00:00	04/09/15 20:42	50
1,2,4-Trichlorobenzene	<34		180	34	ug/Kg	☼	03/30/15 00:00	04/09/15 20:42	50
1,2,4-Trimethylbenzene	<19		180	19	ug/Kg	☼	03/30/15 00:00	04/09/15 20:42	50
1,2-Dibromo-3-Chloropropane	<78		180	78	ug/Kg	☼	03/30/15 00:00	04/09/15 20:42	50
1,2-Dibromoethane	<28		180	28	ug/Kg	☼	03/30/15 00:00	04/09/15 20:42	50
1,2-Dichlorobenzene	<18		180	18	ug/Kg	☼	03/30/15 00:00	04/09/15 20:42	50
1,2-Dichloroethane	<26		90	26	ug/Kg	☼	03/30/15 00:00	04/09/15 20:42	50
1,2-Dichloropropane	<18		90	18	ug/Kg	☼	03/30/15 00:00	04/09/15 20:42	50
1,3,5-Trimethylbenzene	<19		180	19	ug/Kg	☼	03/30/15 00:00	04/09/15 20:42	50
1,3-Dichlorobenzene	<23		180	23	ug/Kg	☼	03/30/15 00:00	04/09/15 20:42	50
1,3-Dichloropropane	<12		90	12	ug/Kg	☼	03/30/15 00:00	04/09/15 20:42	50
1,4-Dichlorobenzene	<16		180	16	ug/Kg	☼	03/30/15 00:00	04/09/15 20:42	50
2,2-Dichloropropane	<28		90	28	ug/Kg	☼	03/30/15 00:00	04/09/15 20:42	50
2-Chlorotoluene	<19		90	19	ug/Kg	☼	03/30/15 00:00	04/09/15 20:42	50

TestAmerica Chicago

Client Sample Results

Client: TRC Environmental Corporation.
Project/Site: Former CMC Shops Wheelhouse 232269

TestAmerica Job ID: 500-94066-1

Client Sample ID: GP-7 (14-16)

Lab Sample ID: 500-94066-18

Date Collected: 03/30/15 00:00

Matrix: Solid

Date Received: 04/02/15 09:30

Percent Solids: 70.9

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Chlorotoluene	<18		90	18	ug/Kg	☼	03/30/15 00:00	04/09/15 20:42	50
Benzene	<6.7		23	6.7	ug/Kg	☼	03/30/15 00:00	04/09/15 20:42	50
Bromobenzene	<38		180	38	ug/Kg	☼	03/30/15 00:00	04/09/15 20:42	50
Bromochloromethane	<34		180	34	ug/Kg	☼	03/30/15 00:00	04/09/15 20:42	50
Bromodichloromethane	<30		180	30	ug/Kg	☼	03/30/15 00:00	04/09/15 20:42	50
Bromoform	<40		180	40	ug/Kg	☼	03/30/15 00:00	04/09/15 20:42	50
Bromomethane	<61		180	61	ug/Kg	☼	03/30/15 00:00	04/09/15 20:42	50
Carbon tetrachloride	<23		90	23	ug/Kg	☼	03/30/15 00:00	04/09/15 20:42	50
Chlorobenzene	<13		90	13	ug/Kg	☼	03/30/15 00:00	04/09/15 20:42	50
Chloroethane	<39		180	39	ug/Kg	☼	03/30/15 00:00	04/09/15 20:42	50
Chloroform	<18		90	18	ug/Kg	☼	03/30/15 00:00	04/09/15 20:42	50
Chloromethane	<42		180	42	ug/Kg	☼	03/30/15 00:00	04/09/15 20:42	50
cis-1,2-Dichloroethene	<11		90	11	ug/Kg	☼	03/30/15 00:00	04/09/15 20:42	50
cis-1,3-Dichloropropene	<16		90	16	ug/Kg	☼	03/30/15 00:00	04/09/15 20:42	50
Dibromochloromethane	<31		180	31	ug/Kg	☼	03/30/15 00:00	04/09/15 20:42	50
Dibromomethane	<43		180	43	ug/Kg	☼	03/30/15 00:00	04/09/15 20:42	50
Dichlorodifluoromethane	<46		180	46	ug/Kg	☼	03/30/15 00:00	04/09/15 20:42	50
Ethylbenzene	<11		23	11	ug/Kg	☼	03/30/15 00:00	04/09/15 20:42	50
Hexachlorobutadiene	<31		180	31	ug/Kg	☼	03/30/15 00:00	04/09/15 20:42	50
Isopropyl ether	<13		180	13	ug/Kg	☼	03/30/15 00:00	04/09/15 20:42	50
Isopropylbenzene	<23		180	23	ug/Kg	☼	03/30/15 00:00	04/09/15 20:42	50
Methyl tert-butyl ether	<39		180	39	ug/Kg	☼	03/30/15 00:00	04/09/15 20:42	50
Methylene Chloride	<62		450	62	ug/Kg	☼	03/30/15 00:00	04/09/15 20:42	50
Naphthalene	<45		180	45	ug/Kg	☼	03/30/15 00:00	04/09/15 20:42	50
n-Butylbenzene	<12		90	12	ug/Kg	☼	03/30/15 00:00	04/09/15 20:42	50
N-Propylbenzene	<16		180	16	ug/Kg	☼	03/30/15 00:00	04/09/15 20:42	50
p-Isopropyltoluene	<17		180	17	ug/Kg	☼	03/30/15 00:00	04/09/15 20:42	50
sec-Butylbenzene	<14		90	14	ug/Kg	☼	03/30/15 00:00	04/09/15 20:42	50
Styrene	<8.9		90	8.9	ug/Kg	☼	03/30/15 00:00	04/09/15 20:42	50
tert-Butylbenzene	<12		90	12	ug/Kg	☼	03/30/15 00:00	04/09/15 20:42	50
Tetrachloroethene	<15		90	15	ug/Kg	☼	03/30/15 00:00	04/09/15 20:42	50
Toluene	<10		23	10	ug/Kg	☼	03/30/15 00:00	04/09/15 20:42	50
trans-1,2-Dichloroethene	<23		90	23	ug/Kg	☼	03/30/15 00:00	04/09/15 20:42	50
trans-1,3-Dichloropropene	<19		90	19	ug/Kg	☼	03/30/15 00:00	04/09/15 20:42	50
Trichloroethene	<17		45	17	ug/Kg	☼	03/30/15 00:00	04/09/15 20:42	50
Trichlorofluoromethane	<37		180	37	ug/Kg	☼	03/30/15 00:00	04/09/15 20:42	50
Vinyl chloride	<9.4		23	9.4	ug/Kg	☼	03/30/15 00:00	04/09/15 20:42	50
Xylenes, Total	<6.2		45	6.2	ug/Kg	☼	03/30/15 00:00	04/09/15 20:42	50
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	117		75 - 125				03/30/15 00:00	04/09/15 20:42	50
4-Bromofluorobenzene (Surr)	106		75 - 120				03/30/15 00:00	04/09/15 20:42	50
Dibromofluoromethane	106		75 - 120				03/30/15 00:00	04/09/15 20:42	50
Toluene-d8 (Surr)	97		75 - 120				03/30/15 00:00	04/09/15 20:42	50

TestAmerica Chicago

Client Sample Results

Client: TRC Environmental Corporation.
Project/Site: Former CMC Shops Wheelhouse 232269

TestAmerica Job ID: 500-94066-1

Client Sample ID: GP-8 (4-6)

Lab Sample ID: 500-94066-19

Date Collected: 03/31/15 00:00

Matrix: Solid

Date Received: 04/02/15 09:30

Percent Solids: 88.2

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<22		130	22	ug/Kg	☼	03/31/15 00:00	04/10/15 12:35	50
1,1,1-Trichloroethane	<13		63	13	ug/Kg	☼	03/31/15 00:00	04/10/15 12:35	50
1,1,2,2-Tetrachloroethane	<15		63	15	ug/Kg	☼	03/31/15 00:00	04/10/15 12:35	50
1,1,2-Trichloroethane	<18		63	18	ug/Kg	☼	03/31/15 00:00	04/10/15 12:35	50
1,1-Dichloroethane	<12		63	12	ug/Kg	☼	03/31/15 00:00	04/10/15 12:35	50
1,1-Dichloroethene	<19		63	19	ug/Kg	☼	03/31/15 00:00	04/10/15 12:35	50
1,1-Dichloropropene	<22		63	22	ug/Kg	☼	03/31/15 00:00	04/10/15 12:35	50
1,2,3-Trichlorobenzene	<22		130	22	ug/Kg	☼	03/31/15 00:00	04/10/15 12:35	50
1,2,3-Trichloropropane	<36		130	36	ug/Kg	☼	03/31/15 00:00	04/10/15 12:35	50
1,2,4-Trichlorobenzene	<24		130	24	ug/Kg	☼	03/31/15 00:00	04/10/15 12:35	50
1,2,4-Trimethylbenzene	<13		130	13	ug/Kg	☼	03/31/15 00:00	04/10/15 12:35	50
1,2-Dibromo-3-Chloropropane	<55		130	55	ug/Kg	☼	03/31/15 00:00	04/10/15 12:35	50
1,2-Dibromoethane	<20		130	20	ug/Kg	☼	03/31/15 00:00	04/10/15 12:35	50
1,2-Dichlorobenzene	<13		130	13	ug/Kg	☼	03/31/15 00:00	04/10/15 12:35	50
1,2-Dichloroethane	<18		63	18	ug/Kg	☼	03/31/15 00:00	04/10/15 12:35	50
1,2-Dichloropropane	<12		63	12	ug/Kg	☼	03/31/15 00:00	04/10/15 12:35	50
1,3,5-Trimethylbenzene	<13		130	13	ug/Kg	☼	03/31/15 00:00	04/10/15 12:35	50
1,3-Dichlorobenzene	<16		130	16	ug/Kg	☼	03/31/15 00:00	04/10/15 12:35	50
1,3-Dichloropropane	<8.5		63	8.5	ug/Kg	☼	03/31/15 00:00	04/10/15 12:35	50
1,4-Dichlorobenzene	<11		130	11	ug/Kg	☼	03/31/15 00:00	04/10/15 12:35	50
2,2-Dichloropropane	<20		63	20	ug/Kg	☼	03/31/15 00:00	04/10/15 12:35	50
2-Chlorotoluene	<13		63	13	ug/Kg	☼	03/31/15 00:00	04/10/15 12:35	50
4-Chlorotoluene	<13		63	13	ug/Kg	☼	03/31/15 00:00	04/10/15 12:35	50
Benzene	<4.7		16	4.7	ug/Kg	☼	03/31/15 00:00	04/10/15 12:35	50
Bromobenzene	<27		130	27	ug/Kg	☼	03/31/15 00:00	04/10/15 12:35	50
Bromochloromethane	<24		130	24	ug/Kg	☼	03/31/15 00:00	04/10/15 12:35	50
Bromodichloromethane	<21		130	21	ug/Kg	☼	03/31/15 00:00	04/10/15 12:35	50
Bromoform	<28		130	28	ug/Kg	☼	03/31/15 00:00	04/10/15 12:35	50
Bromomethane	<43		130	43	ug/Kg	☼	03/31/15 00:00	04/10/15 12:35	50
Carbon tetrachloride	<16		63	16	ug/Kg	☼	03/31/15 00:00	04/10/15 12:35	50
Chlorobenzene	<9.1		63	9.1	ug/Kg	☼	03/31/15 00:00	04/10/15 12:35	50
Chloroethane	<28		130	28	ug/Kg	☼	03/31/15 00:00	04/10/15 12:35	50
Chloroform	<13		63	13	ug/Kg	☼	03/31/15 00:00	04/10/15 12:35	50
Chloromethane	<29		130	29	ug/Kg	☼	03/31/15 00:00	04/10/15 12:35	50
cis-1,2-Dichloroethene	<7.8		63	7.8	ug/Kg	☼	03/31/15 00:00	04/10/15 12:35	50
cis-1,3-Dichloropropene	<11		63	11	ug/Kg	☼	03/31/15 00:00	04/10/15 12:35	50
Dibromochloromethane	<22		130	22	ug/Kg	☼	03/31/15 00:00	04/10/15 12:35	50
Dibromomethane	<30		130	30	ug/Kg	☼	03/31/15 00:00	04/10/15 12:35	50
Dichlorodifluoromethane	<33		130	33	ug/Kg	☼	03/31/15 00:00	04/10/15 12:35	50
Ethylbenzene	<8.0		16	8.0	ug/Kg	☼	03/31/15 00:00	04/10/15 12:35	50
Hexachlorobutadiene	<22		130	22	ug/Kg	☼	03/31/15 00:00	04/10/15 12:35	50
Isopropyl ether	<9.3		130	9.3	ug/Kg	☼	03/31/15 00:00	04/10/15 12:35	50
Isopropylbenzene	<16		130	16	ug/Kg	☼	03/31/15 00:00	04/10/15 12:35	50
Methyl tert-butyl ether	<27		130	27	ug/Kg	☼	03/31/15 00:00	04/10/15 12:35	50
Methylene Chloride	<43		320	43	ug/Kg	☼	03/31/15 00:00	04/10/15 12:35	50
Naphthalene	<31		130	31	ug/Kg	☼	03/31/15 00:00	04/10/15 12:35	50
n-Butylbenzene	<8.2		63	8.2	ug/Kg	☼	03/31/15 00:00	04/10/15 12:35	50
N-Propylbenzene	<11		130	11	ug/Kg	☼	03/31/15 00:00	04/10/15 12:35	50
p-Isopropyltoluene	<12		130	12	ug/Kg	☼	03/31/15 00:00	04/10/15 12:35	50

TestAmerica Chicago

Client Sample Results

Client: TRC Environmental Corporation.
Project/Site: Former CMC Shops Wheelhouse 232269

TestAmerica Job ID: 500-94066-1

Client Sample ID: GP-8 (4-6)

Lab Sample ID: 500-94066-19

Date Collected: 03/31/15 00:00

Matrix: Solid

Date Received: 04/02/15 09:30

Percent Solids: 88.2

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	<9.8		63	9.8	ug/Kg	☼	03/31/15 00:00	04/10/15 12:35	50
Styrene	<6.3		63	6.3	ug/Kg	☼	03/31/15 00:00	04/10/15 12:35	50
tert-Butylbenzene	<8.6		63	8.6	ug/Kg	☼	03/31/15 00:00	04/10/15 12:35	50
Tetrachloroethene	<11		63	11	ug/Kg	☼	03/31/15 00:00	04/10/15 12:35	50
Toluene	<7.3		16	7.3	ug/Kg	☼	03/31/15 00:00	04/10/15 12:35	50
trans-1,2-Dichloroethene	<16		63	16	ug/Kg	☼	03/31/15 00:00	04/10/15 12:35	50
trans-1,3-Dichloropropene	<13		63	13	ug/Kg	☼	03/31/15 00:00	04/10/15 12:35	50
Trichloroethene	<12		32	12	ug/Kg	☼	03/31/15 00:00	04/10/15 12:35	50
Trichlorofluoromethane	<26		130	26	ug/Kg	☼	03/31/15 00:00	04/10/15 12:35	50
Vinyl chloride	<6.6		16	6.6	ug/Kg	☼	03/31/15 00:00	04/10/15 12:35	50
Xylenes, Total	<4.3		32	4.3	ug/Kg	☼	03/31/15 00:00	04/10/15 12:35	50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	105		75 - 125	03/31/15 00:00	04/10/15 12:35	50
4-Bromofluorobenzene (Surr)	105		75 - 120	03/31/15 00:00	04/10/15 12:35	50
Dibromofluoromethane	103		75 - 120	03/31/15 00:00	04/10/15 12:35	50
Toluene-d8 (Surr)	99		75 - 120	03/31/15 00:00	04/10/15 12:35	50

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	<440		1800	440	ug/Kg	☼	04/03/15 07:28	04/11/15 18:04	50
2-Methylnaphthalene	<330		1800	330	ug/Kg	☼	04/03/15 07:28	04/11/15 18:04	50
Acenaphthene	<320		1800	320	ug/Kg	☼	04/03/15 07:28	04/11/15 18:04	50
Acenaphthylene	<230		1800	230	ug/Kg	☼	04/03/15 07:28	04/11/15 18:04	50
Anthracene	<300		1800	300	ug/Kg	☼	04/03/15 07:28	04/11/15 18:04	50
Benzo[a]anthracene	1200	J	1800	240	ug/Kg	☼	04/03/15 07:28	04/11/15 18:04	50
Benzo[a]pyrene	1000	J	1800	340	ug/Kg	☼	04/03/15 07:28	04/11/15 18:04	50
Benzo[b]fluoranthene	1400	J	1800	380	ug/Kg	☼	04/03/15 07:28	04/11/15 18:04	50
Benzo[g,h,i]perylene	730	J	1800	570	ug/Kg	☼	04/03/15 07:28	04/11/15 18:04	50
Benzo[k]fluoranthene	640	J	1800	530	ug/Kg	☼	04/03/15 07:28	04/11/15 18:04	50
Chrysene	1200	J	1800	490	ug/Kg	☼	04/03/15 07:28	04/11/15 18:04	50
Dibenz(a,h)anthracene	<340		1800	340	ug/Kg	☼	04/03/15 07:28	04/11/15 18:04	50
Fluoranthene	2000		1800	330	ug/Kg	☼	04/03/15 07:28	04/11/15 18:04	50
Fluorene	<250		1800	250	ug/Kg	☼	04/03/15 07:28	04/11/15 18:04	50
Indeno[1,2,3-cd]pyrene	640	J	1800	460	ug/Kg	☼	04/03/15 07:28	04/11/15 18:04	50
Naphthalene	<270		1800	270	ug/Kg	☼	04/03/15 07:28	04/11/15 18:04	50
Phenanthrene	760	J	1800	250	ug/Kg	☼	04/03/15 07:28	04/11/15 18:04	50
Pyrene	1900		1800	350	ug/Kg	☼	04/03/15 07:28	04/11/15 18:04	50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	77		25 - 119	04/03/15 07:28	04/11/15 18:04	50
Nitrobenzene-d5 (Surr)	44		25 - 115	04/03/15 07:28	04/11/15 18:04	50
Terphenyl-d14 (Surr)	97		36 - 134	04/03/15 07:28	04/11/15 18:04	50

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<6.5		19	6.5	ug/Kg	☼	04/03/15 07:22	04/04/15 12:33	1
PCB-1221	<8.1		19	8.1	ug/Kg	☼	04/03/15 07:22	04/04/15 12:33	1
PCB-1232	<8.1		19	8.1	ug/Kg	☼	04/03/15 07:22	04/04/15 12:33	1
PCB-1242	<6.1		19	6.1	ug/Kg	☼	04/03/15 07:22	04/04/15 12:33	1

TestAmerica Chicago

Client Sample Results

Client: TRC Environmental Corporation.
Project/Site: Former CMC Shops Wheelhouse 232269

TestAmerica Job ID: 500-94066-1

Client Sample ID: GP-8 (4-6)

Date Collected: 03/31/15 00:00

Date Received: 04/02/15 09:30

Lab Sample ID: 500-94066-19

Matrix: Solid

Percent Solids: 88.2

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1248	<7.3		19	7.3	ug/Kg	☼	04/03/15 07:22	04/04/15 12:33	1
PCB-1254	<4.0		19	4.0	ug/Kg	☼	04/03/15 07:22	04/04/15 12:33	1
PCB-1260	<9.1		19	9.1	ug/Kg	☼	04/03/15 07:22	04/04/15 12:33	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	83		50 - 116				04/03/15 07:22	04/04/15 12:33	1
DCB Decachlorobiphenyl	75		48 - 142				04/03/15 07:22	04/04/15 12:33	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	4.0		1.1	0.49	mg/Kg	☼	04/05/15 18:00	04/06/15 16:30	1
Barium	51		1.1	0.19	mg/Kg	☼	04/05/15 18:00	04/06/15 16:30	1
Cadmium	0.27		0.21	0.062	mg/Kg	☼	04/05/15 18:00	04/06/15 16:30	1
Chromium	14		1.1	0.18	mg/Kg	☼	04/05/15 18:00	04/06/15 16:30	1
Lead	39		0.53	0.26	mg/Kg	☼	04/05/15 18:00	04/06/15 16:30	1
Selenium	0.63 J		1.1	0.53	mg/Kg	☼	04/05/15 18:00	04/06/15 16:30	1
Silver	<0.12		0.53	0.12	mg/Kg	☼	04/05/15 18:00	04/06/15 16:30	1

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.025		0.016	0.0057	mg/Kg	☼	04/03/15 14:00	04/06/15 09:44	1

Client Sample ID: GP-9 (2-4)

Date Collected: 03/31/15 00:00

Date Received: 04/02/15 09:30

Lab Sample ID: 500-94066-20

Matrix: Solid

Percent Solids: 83.6

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<24		140	24	ug/Kg	☼	03/31/15 00:00	04/10/15 13:00	50
1,1,1-Trichloroethane	<14		70	14	ug/Kg	☼	03/31/15 00:00	04/10/15 13:00	50
1,1,2,2-Tetrachloroethane	<16		70	16	ug/Kg	☼	03/31/15 00:00	04/10/15 13:00	50
1,1,2-Trichloroethane	<19		70	19	ug/Kg	☼	03/31/15 00:00	04/10/15 13:00	50
1,1-Dichloroethane	<13		70	13	ug/Kg	☼	03/31/15 00:00	04/10/15 13:00	50
1,1-Dichloroethene	<21		70	21	ug/Kg	☼	03/31/15 00:00	04/10/15 13:00	50
1,1-Dichloropropene	<24		70	24	ug/Kg	☼	03/31/15 00:00	04/10/15 13:00	50
1,2,3-Trichlorobenzene	<24		140	24	ug/Kg	☼	03/31/15 00:00	04/10/15 13:00	50
1,2,3-Trichloropropane	<40		140	40	ug/Kg	☼	03/31/15 00:00	04/10/15 13:00	50
1,2,4-Trichlorobenzene	<26		140	26	ug/Kg	☼	03/31/15 00:00	04/10/15 13:00	50
1,2,4-Trimethylbenzene	<15		140	15	ug/Kg	☼	03/31/15 00:00	04/10/15 13:00	50
1,2-Dibromo-3-Chloropropane	<61		140	61	ug/Kg	☼	03/31/15 00:00	04/10/15 13:00	50
1,2-Dibromoethane	<22		140	22	ug/Kg	☼	03/31/15 00:00	04/10/15 13:00	50
1,2-Dichlorobenzene	<14		140	14	ug/Kg	☼	03/31/15 00:00	04/10/15 13:00	50
1,2-Dichloroethane	<20		70	20	ug/Kg	☼	03/31/15 00:00	04/10/15 13:00	50
1,2-Dichloropropane	<14		70	14	ug/Kg	☼	03/31/15 00:00	04/10/15 13:00	50
1,3,5-Trimethylbenzene	<14		140	14	ug/Kg	☼	03/31/15 00:00	04/10/15 13:00	50
1,3-Dichlorobenzene	<18		140	18	ug/Kg	☼	03/31/15 00:00	04/10/15 13:00	50
1,3-Dichloropropane	<9.4		70	9.4	ug/Kg	☼	03/31/15 00:00	04/10/15 13:00	50
1,4-Dichlorobenzene	<12		140	12	ug/Kg	☼	03/31/15 00:00	04/10/15 13:00	50
2,2-Dichloropropane	<22		70	22	ug/Kg	☼	03/31/15 00:00	04/10/15 13:00	50
2-Chlorotoluene	<14		70	14	ug/Kg	☼	03/31/15 00:00	04/10/15 13:00	50

TestAmerica Chicago

Client Sample Results

Client: TRC Environmental Corporation.
Project/Site: Former CMC Shops Wheelhouse 232269

TestAmerica Job ID: 500-94066-1

Client Sample ID: GP-9 (2-4)

Lab Sample ID: 500-94066-20

Date Collected: 03/31/15 00:00

Matrix: Solid

Date Received: 04/02/15 09:30

Percent Solids: 83.6

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Chlorotoluene	<14		70	14	ug/Kg	☼	03/31/15 00:00	04/10/15 13:00	50
Benzene	<5.2		17	5.2	ug/Kg	☼	03/31/15 00:00	04/10/15 13:00	50
Bromobenzene	<30		140	30	ug/Kg	☼	03/31/15 00:00	04/10/15 13:00	50
Bromochloromethane	<26		140	26	ug/Kg	☼	03/31/15 00:00	04/10/15 13:00	50
Bromodichloromethane	<24		140	24	ug/Kg	☼	03/31/15 00:00	04/10/15 13:00	50
Bromoform	<31		140	31	ug/Kg	☼	03/31/15 00:00	04/10/15 13:00	50
Bromomethane	<48		140	48	ug/Kg	☼	03/31/15 00:00	04/10/15 13:00	50
Carbon tetrachloride	<18		70	18	ug/Kg	☼	03/31/15 00:00	04/10/15 13:00	50
Chlorobenzene	<10		70	10	ug/Kg	☼	03/31/15 00:00	04/10/15 13:00	50
Chloroethane	<30		140	30	ug/Kg	☼	03/31/15 00:00	04/10/15 13:00	50
Chloroform	<14		70	14	ug/Kg	☼	03/31/15 00:00	04/10/15 13:00	50
Chloromethane	<32		140	32	ug/Kg	☼	03/31/15 00:00	04/10/15 13:00	50
cis-1,2-Dichloroethene	<8.6		70	8.6	ug/Kg	☼	03/31/15 00:00	04/10/15 13:00	50
cis-1,3-Dichloropropene	<12		70	12	ug/Kg	☼	03/31/15 00:00	04/10/15 13:00	50
Dibromochloromethane	<24		140	24	ug/Kg	☼	03/31/15 00:00	04/10/15 13:00	50
Dibromomethane	<34		140	34	ug/Kg	☼	03/31/15 00:00	04/10/15 13:00	50
Dichlorodifluoromethane	<36		140	36	ug/Kg	☼	03/31/15 00:00	04/10/15 13:00	50
Ethylbenzene	<8.8		17	8.8	ug/Kg	☼	03/31/15 00:00	04/10/15 13:00	50
Hexachlorobutadiene	<24		140	24	ug/Kg	☼	03/31/15 00:00	04/10/15 13:00	50
Isopropyl ether	<10		140	10	ug/Kg	☼	03/31/15 00:00	04/10/15 13:00	50
Isopropylbenzene	<18		140	18	ug/Kg	☼	03/31/15 00:00	04/10/15 13:00	50
Methyl tert-butyl ether	<30		140	30	ug/Kg	☼	03/31/15 00:00	04/10/15 13:00	50
Methylene Chloride	<48		350	48	ug/Kg	☼	03/31/15 00:00	04/10/15 13:00	50
Naphthalene	<35		140	35	ug/Kg	☼	03/31/15 00:00	04/10/15 13:00	50
n-Butylbenzene	<9.0		70	9.0	ug/Kg	☼	03/31/15 00:00	04/10/15 13:00	50
N-Propylbenzene	<12		140	12	ug/Kg	☼	03/31/15 00:00	04/10/15 13:00	50
p-Isopropyltoluene	<13		140	13	ug/Kg	☼	03/31/15 00:00	04/10/15 13:00	50
sec-Butylbenzene	<11		70	11	ug/Kg	☼	03/31/15 00:00	04/10/15 13:00	50
Styrene	<6.9		70	6.9	ug/Kg	☼	03/31/15 00:00	04/10/15 13:00	50
tert-Butylbenzene	<9.5		70	9.5	ug/Kg	☼	03/31/15 00:00	04/10/15 13:00	50
Tetrachloroethene	<12		70	12	ug/Kg	☼	03/31/15 00:00	04/10/15 13:00	50
Toluene	<8.0		17	8.0	ug/Kg	☼	03/31/15 00:00	04/10/15 13:00	50
trans-1,2-Dichloroethene	<17		70	17	ug/Kg	☼	03/31/15 00:00	04/10/15 13:00	50
trans-1,3-Dichloropropene	<15		70	15	ug/Kg	☼	03/31/15 00:00	04/10/15 13:00	50
Trichloroethene	<13		35	13	ug/Kg	☼	03/31/15 00:00	04/10/15 13:00	50
Trichlorofluoromethane	<29		140	29	ug/Kg	☼	03/31/15 00:00	04/10/15 13:00	50
Vinyl chloride	<7.3		17	7.3	ug/Kg	☼	03/31/15 00:00	04/10/15 13:00	50
Xylenes, Total	<4.8		35	4.8	ug/Kg	☼	03/31/15 00:00	04/10/15 13:00	50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	103		75 - 125	03/31/15 00:00	04/10/15 13:00	50
4-Bromofluorobenzene (Surr)	103		75 - 120	03/31/15 00:00	04/10/15 13:00	50
Dibromofluoromethane	101		75 - 120	03/31/15 00:00	04/10/15 13:00	50
Toluene-d8 (Surr)	100		75 - 120	03/31/15 00:00	04/10/15 13:00	50

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	<9.5		39	9.5	ug/Kg	☼	04/03/15 07:28	04/10/15 18:12	1
2-Methylnaphthalene	<7.2		39	7.2	ug/Kg	☼	04/03/15 07:28	04/10/15 18:12	1
Acenaphthene	36	J	39	7.0	ug/Kg	☼	04/03/15 07:28	04/10/15 18:12	1

TestAmerica Chicago

Client Sample Results

Client: TRC Environmental Corporation.
Project/Site: Former CMC Shops Wheelhouse 232269

TestAmerica Job ID: 500-94066-1

Client Sample ID: GP-9 (2-4)

Lab Sample ID: 500-94066-20

Date Collected: 03/31/15 00:00

Matrix: Solid

Date Received: 04/02/15 09:30

Percent Solids: 83.6

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthylene	23	J	39	5.1	ug/Kg	☼	04/03/15 07:28	04/10/15 18:12	1
Anthracene	92		39	6.5	ug/Kg	☼	04/03/15 07:28	04/10/15 18:12	1
Benzo[a]anthracene	320		39	5.2	ug/Kg	☼	04/03/15 07:28	04/10/15 18:12	1
Benzo[a]pyrene	320		39	7.5	ug/Kg	☼	04/03/15 07:28	04/10/15 18:12	1
Benzo[b]fluoranthene	450		39	8.4	ug/Kg	☼	04/03/15 07:28	04/10/15 18:12	1
Benzo[g,h,i]perylene	190		39	13	ug/Kg	☼	04/03/15 07:28	04/10/15 18:12	1
Benzo[k]fluoranthene	180		39	11	ug/Kg	☼	04/03/15 07:28	04/10/15 18:12	1
Chrysene	310		39	11	ug/Kg	☼	04/03/15 07:28	04/10/15 18:12	1
Dibenz(a,h)anthracene	50		39	7.5	ug/Kg	☼	04/03/15 07:28	04/10/15 18:12	1
Fluoranthene	610		39	7.2	ug/Kg	☼	04/03/15 07:28	04/10/15 18:12	1
Fluorene	35	J	39	5.5	ug/Kg	☼	04/03/15 07:28	04/10/15 18:12	1
Indeno[1,2,3-cd]pyrene	190		39	10	ug/Kg	☼	04/03/15 07:28	04/10/15 18:12	1
Naphthalene	<6.0		39	6.0	ug/Kg	☼	04/03/15 07:28	04/10/15 18:12	1
Phenanthrene	220		39	5.4	ug/Kg	☼	04/03/15 07:28	04/10/15 18:12	1
Pyrene	520		39	7.7	ug/Kg	☼	04/03/15 07:28	04/10/15 18:12	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	64		25 - 119	04/03/15 07:28	04/10/15 18:12	1
Nitrobenzene-d5 (Surr)	44		25 - 115	04/03/15 07:28	04/10/15 18:12	1
Terphenyl-d14 (Surr)	82		36 - 134	04/03/15 07:28	04/10/15 18:12	1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<6.7		19	6.7	ug/Kg	☼	04/03/15 07:22	04/04/15 12:47	1
PCB-1221	<8.4		19	8.4	ug/Kg	☼	04/03/15 07:22	04/04/15 12:47	1
PCB-1232	<8.3		19	8.3	ug/Kg	☼	04/03/15 07:22	04/04/15 12:47	1
PCB-1242	<6.3		19	6.3	ug/Kg	☼	04/03/15 07:22	04/04/15 12:47	1
PCB-1248	<7.5		19	7.5	ug/Kg	☼	04/03/15 07:22	04/04/15 12:47	1
PCB-1254	<4.1		19	4.1	ug/Kg	☼	04/03/15 07:22	04/04/15 12:47	1
PCB-1260	<9.3		19	9.3	ug/Kg	☼	04/03/15 07:22	04/04/15 12:47	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	81		50 - 116	04/03/15 07:22	04/04/15 12:47	1
DCB Decachlorobiphenyl	79		48 - 142	04/03/15 07:22	04/04/15 12:47	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	3.7		1.2	0.54	mg/Kg	☼	04/05/15 18:00	04/06/15 16:35	1
Barium	60		1.2	0.21	mg/Kg	☼	04/05/15 18:00	04/06/15 16:35	1
Cadmium	0.20	J	0.23	0.068	mg/Kg	☼	04/05/15 18:00	04/06/15 16:35	1
Chromium	17		1.2	0.20	mg/Kg	☼	04/05/15 18:00	04/06/15 16:35	1
Lead	26		0.59	0.29	mg/Kg	☼	04/05/15 18:00	04/06/15 16:35	1
Selenium	<0.58		1.2	0.58	mg/Kg	☼	04/05/15 18:00	04/06/15 16:35	1
Silver	<0.14		0.59	0.14	mg/Kg	☼	04/05/15 18:00	04/06/15 16:35	1

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.042		0.019	0.0067	mg/Kg	☼	04/03/15 14:00	04/06/15 09:46	1

TestAmerica Chicago

Client Sample Results

Client: TRC Environmental Corporation.
Project/Site: Former CMC Shops Wheelhouse 232269

TestAmerica Job ID: 500-94066-1

Client Sample ID: GP-10 (2-4)

Lab Sample ID: 500-94066-21

Date Collected: 03/31/15 00:00

Matrix: Solid

Date Received: 04/02/15 09:30

Percent Solids: 89.6

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<20		120	20	ug/Kg	☼	03/31/15 00:00	04/10/15 13:25	50
1,1,1-Trichloroethane	<12		58	12	ug/Kg	☼	03/31/15 00:00	04/10/15 13:25	50
1,1,2,2-Tetrachloroethane	<14		58	14	ug/Kg	☼	03/31/15 00:00	04/10/15 13:25	50
1,1,2-Trichloroethane	<16		58	16	ug/Kg	☼	03/31/15 00:00	04/10/15 13:25	50
1,1-Dichloroethane	<11		58	11	ug/Kg	☼	03/31/15 00:00	04/10/15 13:25	50
1,1-Dichloroethene	<18		58	18	ug/Kg	☼	03/31/15 00:00	04/10/15 13:25	50
1,1-Dichloropropene	<20		58	20	ug/Kg	☼	03/31/15 00:00	04/10/15 13:25	50
1,2,3-Trichlorobenzene	<20		120	20	ug/Kg	☼	03/31/15 00:00	04/10/15 13:25	50
1,2,3-Trichloropropane	<33		120	33	ug/Kg	☼	03/31/15 00:00	04/10/15 13:25	50
1,2,4-Trichlorobenzene	<22		120	22	ug/Kg	☼	03/31/15 00:00	04/10/15 13:25	50
1,2,4-Trimethylbenzene	320		120	12	ug/Kg	☼	03/31/15 00:00	04/10/15 13:25	50
1,2-Dibromo-3-Chloropropane	<50		120	50	ug/Kg	☼	03/31/15 00:00	04/10/15 13:25	50
1,2-Dibromoethane	<18		120	18	ug/Kg	☼	03/31/15 00:00	04/10/15 13:25	50
1,2-Dichlorobenzene	<12		120	12	ug/Kg	☼	03/31/15 00:00	04/10/15 13:25	50
1,2-Dichloroethane	<16		58	16	ug/Kg	☼	03/31/15 00:00	04/10/15 13:25	50
1,2-Dichloropropane	<11		58	11	ug/Kg	☼	03/31/15 00:00	04/10/15 13:25	50
1,3,5-Trimethylbenzene	<12		120	12	ug/Kg	☼	03/31/15 00:00	04/10/15 13:25	50
1,3-Dichlorobenzene	<15		120	15	ug/Kg	☼	03/31/15 00:00	04/10/15 13:25	50
1,3-Dichloropropane	<7.8		58	7.8	ug/Kg	☼	03/31/15 00:00	04/10/15 13:25	50
1,4-Dichlorobenzene	<10		120	10	ug/Kg	☼	03/31/15 00:00	04/10/15 13:25	50
2,2-Dichloropropane	<18		58	18	ug/Kg	☼	03/31/15 00:00	04/10/15 13:25	50
2-Chlorotoluene	<12		58	12	ug/Kg	☼	03/31/15 00:00	04/10/15 13:25	50
4-Chlorotoluene	<11		58	11	ug/Kg	☼	03/31/15 00:00	04/10/15 13:25	50
Benzene	87		14	4.3	ug/Kg	☼	03/31/15 00:00	04/10/15 13:25	50
Bromobenzene	<25		120	25	ug/Kg	☼	03/31/15 00:00	04/10/15 13:25	50
Bromochloromethane	<22		120	22	ug/Kg	☼	03/31/15 00:00	04/10/15 13:25	50
Bromodichloromethane	<20		120	20	ug/Kg	☼	03/31/15 00:00	04/10/15 13:25	50
Bromoform	<26		120	26	ug/Kg	☼	03/31/15 00:00	04/10/15 13:25	50
Bromomethane	<39		120	39	ug/Kg	☼	03/31/15 00:00	04/10/15 13:25	50
Carbon tetrachloride	<15		58	15	ug/Kg	☼	03/31/15 00:00	04/10/15 13:25	50
Chlorobenzene	<8.3		58	8.3	ug/Kg	☼	03/31/15 00:00	04/10/15 13:25	50
Chloroethane	<25		120	25	ug/Kg	☼	03/31/15 00:00	04/10/15 13:25	50
Chloroform	<12		58	12	ug/Kg	☼	03/31/15 00:00	04/10/15 13:25	50
Chloromethane	<27		120	27	ug/Kg	☼	03/31/15 00:00	04/10/15 13:25	50
cis-1,2-Dichloroethene	<7.1		58	7.1	ug/Kg	☼	03/31/15 00:00	04/10/15 13:25	50
cis-1,3-Dichloropropene	<10		58	10	ug/Kg	☼	03/31/15 00:00	04/10/15 13:25	50
Dibromochloromethane	<20		120	20	ug/Kg	☼	03/31/15 00:00	04/10/15 13:25	50
Dibromomethane	<28		120	28	ug/Kg	☼	03/31/15 00:00	04/10/15 13:25	50
Dichlorodifluoromethane	<30		120	30	ug/Kg	☼	03/31/15 00:00	04/10/15 13:25	50
Ethylbenzene	110		14	7.3	ug/Kg	☼	03/31/15 00:00	04/10/15 13:25	50
Hexachlorobutadiene	<20		120	20	ug/Kg	☼	03/31/15 00:00	04/10/15 13:25	50
Isopropyl ether	<8.5		120	8.5	ug/Kg	☼	03/31/15 00:00	04/10/15 13:25	50
Isopropylbenzene	<15		120	15	ug/Kg	☼	03/31/15 00:00	04/10/15 13:25	50
Methyl tert-butyl ether	<25		120	25	ug/Kg	☼	03/31/15 00:00	04/10/15 13:25	50
Methylene Chloride	<40		290	40	ug/Kg	☼	03/31/15 00:00	04/10/15 13:25	50
Naphthalene	600		120	29	ug/Kg	☼	03/31/15 00:00	04/10/15 13:25	50
n-Butylbenzene	<7.5		58	7.5	ug/Kg	☼	03/31/15 00:00	04/10/15 13:25	50
N-Propylbenzene	<10		120	10	ug/Kg	☼	03/31/15 00:00	04/10/15 13:25	50
p-Isopropyltoluene	<11		120	11	ug/Kg	☼	03/31/15 00:00	04/10/15 13:25	50

TestAmerica Chicago

Client Sample Results

Client: TRC Environmental Corporation.
Project/Site: Former CMC Shops Wheelhouse 232269

TestAmerica Job ID: 500-94066-1

Client Sample ID: GP-10 (2-4)

Lab Sample ID: 500-94066-21

Date Collected: 03/31/15 00:00

Matrix: Solid

Date Received: 04/02/15 09:30

Percent Solids: 89.6

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	<8.9		58	8.9	ug/Kg	☼	03/31/15 00:00	04/10/15 13:25	50
Styrene	<5.7		58	5.7	ug/Kg	☼	03/31/15 00:00	04/10/15 13:25	50
tert-Butylbenzene	<7.9		58	7.9	ug/Kg	☼	03/31/15 00:00	04/10/15 13:25	50
Tetrachloroethene	<9.7		58	9.7	ug/Kg	☼	03/31/15 00:00	04/10/15 13:25	50
Toluene	560		14	6.7	ug/Kg	☼	03/31/15 00:00	04/10/15 13:25	50
trans-1,2-Dichloroethene	<14		58	14	ug/Kg	☼	03/31/15 00:00	04/10/15 13:25	50
trans-1,3-Dichloropropene	<12		58	12	ug/Kg	☼	03/31/15 00:00	04/10/15 13:25	50
Trichloroethene	<11		29	11	ug/Kg	☼	03/31/15 00:00	04/10/15 13:25	50
Trichlorofluoromethane	<24		120	24	ug/Kg	☼	03/31/15 00:00	04/10/15 13:25	50
Vinyl chloride	<6.0		14	6.0	ug/Kg	☼	03/31/15 00:00	04/10/15 13:25	50
Xylenes, Total	950		29	4.0	ug/Kg	☼	03/31/15 00:00	04/10/15 13:25	50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	106		75 - 125	03/31/15 00:00	04/10/15 13:25	50
4-Bromofluorobenzene (Surr)	104		75 - 120	03/31/15 00:00	04/10/15 13:25	50
Dibromofluoromethane	99		75 - 120	03/31/15 00:00	04/10/15 13:25	50
Toluene-d8 (Surr)	100		75 - 120	03/31/15 00:00	04/10/15 13:25	50

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	790		180	44	ug/Kg	☼	04/03/15 07:28	04/10/15 18:31	5
2-Methylnaphthalene	810		180	33	ug/Kg	☼	04/03/15 07:28	04/10/15 18:31	5
Acenaphthene	74	J	180	33	ug/Kg	☼	04/03/15 07:28	04/10/15 18:31	5
Acenaphthylene	84	J	180	24	ug/Kg	☼	04/03/15 07:28	04/10/15 18:31	5
Anthracene	260		180	30	ug/Kg	☼	04/03/15 07:28	04/10/15 18:31	5
Benzo[a]anthracene	1000		180	24	ug/Kg	☼	04/03/15 07:28	04/10/15 18:31	5
Benzo[a]pyrene	950		180	35	ug/Kg	☼	04/03/15 07:28	04/10/15 18:31	5
Benzo[b]fluoranthene	1400		180	39	ug/Kg	☼	04/03/15 07:28	04/10/15 18:31	5
Benzo[g,h,i]perylene	380		180	59	ug/Kg	☼	04/03/15 07:28	04/10/15 18:31	5
Benzo[k]fluoranthene	830		180	54	ug/Kg	☼	04/03/15 07:28	04/10/15 18:31	5
Chrysene	1100		180	50	ug/Kg	☼	04/03/15 07:28	04/10/15 18:31	5
Dibenz(a,h)anthracene	<35		180	35	ug/Kg	☼	04/03/15 07:28	04/10/15 18:31	5
Fluoranthene	1300		180	34	ug/Kg	☼	04/03/15 07:28	04/10/15 18:31	5
Fluorene	83	J	180	26	ug/Kg	☼	04/03/15 07:28	04/10/15 18:31	5
Indeno[1,2,3-cd]pyrene	420		180	47	ug/Kg	☼	04/03/15 07:28	04/10/15 18:31	5
Naphthalene	430		180	28	ug/Kg	☼	04/03/15 07:28	04/10/15 18:31	5
Phenanthrene	1200		180	25	ug/Kg	☼	04/03/15 07:28	04/10/15 18:31	5
Pyrene	2400		180	36	ug/Kg	☼	04/03/15 07:28	04/10/15 18:31	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	62		25 - 119	04/03/15 07:28	04/10/15 18:31	5
Nitrobenzene-d5 (Surr)	43		25 - 115	04/03/15 07:28	04/10/15 18:31	5
Terphenyl-d14 (Surr)	134		36 - 134	04/03/15 07:28	04/10/15 18:31	5

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<6.4		18	6.4	ug/Kg	☼	04/03/15 07:22	04/04/15 13:01	1
PCB-1221	<8.0		18	8.0	ug/Kg	☼	04/03/15 07:22	04/04/15 13:01	1
PCB-1232	<7.9		18	7.9	ug/Kg	☼	04/03/15 07:22	04/04/15 13:01	1
PCB-1242	<5.9		18	5.9	ug/Kg	☼	04/03/15 07:22	04/04/15 13:01	1

TestAmerica Chicago

Client Sample Results

Client: TRC Environmental Corporation.
Project/Site: Former CMC Shops Wheelhouse 232269

TestAmerica Job ID: 500-94066-1

Client Sample ID: GP-10 (2-4)

Date Collected: 03/31/15 00:00

Date Received: 04/02/15 09:30

Lab Sample ID: 500-94066-21

Matrix: Solid

Percent Solids: 89.6

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1248	<7.1		18	7.1	ug/Kg	☼	04/03/15 07:22	04/04/15 13:01	1
PCB-1254	<3.9		18	3.9	ug/Kg	☼	04/03/15 07:22	04/04/15 13:01	1
PCB-1260	16	J	18	8.9	ug/Kg	☼	04/03/15 07:22	04/04/15 13:01	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	74		50 - 116				04/03/15 07:22	04/04/15 13:01	1
DCB Decachlorobiphenyl	72		48 - 142				04/03/15 07:22	04/04/15 13:01	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	6.9		1.0	0.48	mg/Kg	☼	04/05/15 18:00	04/06/15 16:39	1
Barium	65		1.0	0.19	mg/Kg	☼	04/05/15 18:00	04/06/15 16:39	1
Cadmium	0.60		0.21	0.060	mg/Kg	☼	04/05/15 18:00	04/06/15 16:39	1
Chromium	9.8		1.0	0.18	mg/Kg	☼	04/05/15 18:00	04/06/15 16:39	1
Lead	79		0.52	0.26	mg/Kg	☼	04/05/15 18:00	04/06/15 16:39	1
Selenium	1.0		1.0	0.52	mg/Kg	☼	04/05/15 18:00	04/06/15 16:39	1
Silver	<0.12		0.52	0.12	mg/Kg	☼	04/05/15 18:00	04/06/15 16:39	1

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.092		0.018	0.0064	mg/Kg	☼	04/03/15 14:00	04/06/15 09:48	1

Client Sample ID: GP-10 (8-10)

Date Collected: 03/31/15 00:00

Date Received: 04/02/15 09:30

Lab Sample ID: 500-94066-22

Matrix: Solid

Percent Solids: 67.7

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<34		200	34	ug/Kg	☼	03/31/15 00:00	04/10/15 13:50	50
1,1,1-Trichloroethane	<20		98	20	ug/Kg	☼	03/31/15 00:00	04/10/15 13:50	50
1,1,2,2-Tetrachloroethane	<23		98	23	ug/Kg	☼	03/31/15 00:00	04/10/15 13:50	50
1,1,2-Trichloroethane	<27		98	27	ug/Kg	☼	03/31/15 00:00	04/10/15 13:50	50
1,1-Dichloroethane	<18		98	18	ug/Kg	☼	03/31/15 00:00	04/10/15 13:50	50
1,1-Dichloroethene	<30		98	30	ug/Kg	☼	03/31/15 00:00	04/10/15 13:50	50
1,1-Dichloropropene	<34		98	34	ug/Kg	☼	03/31/15 00:00	04/10/15 13:50	50
1,2,3-Trichlorobenzene	<34		200	34	ug/Kg	☼	03/31/15 00:00	04/10/15 13:50	50
1,2,3-Trichloropropane	<56		200	56	ug/Kg	☼	03/31/15 00:00	04/10/15 13:50	50
1,2,4-Trichlorobenzene	<37		200	37	ug/Kg	☼	03/31/15 00:00	04/10/15 13:50	50
1,2,4-Trimethylbenzene	<21		200	21	ug/Kg	☼	03/31/15 00:00	04/10/15 13:50	50
1,2-Dibromo-3-Chloropropane	<85		200	85	ug/Kg	☼	03/31/15 00:00	04/10/15 13:50	50
1,2-Dibromoethane	<31		200	31	ug/Kg	☼	03/31/15 00:00	04/10/15 13:50	50
1,2-Dichlorobenzene	<20		200	20	ug/Kg	☼	03/31/15 00:00	04/10/15 13:50	50
1,2-Dichloroethane	<28		98	28	ug/Kg	☼	03/31/15 00:00	04/10/15 13:50	50
1,2-Dichloropropane	<19		98	19	ug/Kg	☼	03/31/15 00:00	04/10/15 13:50	50
1,3,5-Trimethylbenzene	<20		200	20	ug/Kg	☼	03/31/15 00:00	04/10/15 13:50	50
1,3-Dichlorobenzene	<25		200	25	ug/Kg	☼	03/31/15 00:00	04/10/15 13:50	50
1,3-Dichloropropane	<13		98	13	ug/Kg	☼	03/31/15 00:00	04/10/15 13:50	50
1,4-Dichlorobenzene	<17		200	17	ug/Kg	☼	03/31/15 00:00	04/10/15 13:50	50
2,2-Dichloropropane	<31		98	31	ug/Kg	☼	03/31/15 00:00	04/10/15 13:50	50
2-Chlorotoluene	<20		98	20	ug/Kg	☼	03/31/15 00:00	04/10/15 13:50	50

TestAmerica Chicago

Client Sample Results

Client: TRC Environmental Corporation.
Project/Site: Former CMC Shops Wheelhouse 232269

TestAmerica Job ID: 500-94066-1

Client Sample ID: GP-10 (8-10)

Lab Sample ID: 500-94066-22

Date Collected: 03/31/15 00:00

Matrix: Solid

Date Received: 04/02/15 09:30

Percent Solids: 67.7

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Chlorotoluene	<19		98	19	ug/Kg	☼	03/31/15 00:00	04/10/15 13:50	50
Benzene	<7.2		24	7.2	ug/Kg	☼	03/31/15 00:00	04/10/15 13:50	50
Bromobenzene	<41		200	41	ug/Kg	☼	03/31/15 00:00	04/10/15 13:50	50
Bromochloromethane	<37		200	37	ug/Kg	☼	03/31/15 00:00	04/10/15 13:50	50
Bromodichloromethane	<33		200	33	ug/Kg	☼	03/31/15 00:00	04/10/15 13:50	50
Bromoform	<43		200	43	ug/Kg	☼	03/31/15 00:00	04/10/15 13:50	50
Bromomethane	<67		200	67	ug/Kg	☼	03/31/15 00:00	04/10/15 13:50	50
Carbon tetrachloride	<25		98	25	ug/Kg	☼	03/31/15 00:00	04/10/15 13:50	50
Chlorobenzene	<14		98	14	ug/Kg	☼	03/31/15 00:00	04/10/15 13:50	50
Chloroethane	<42		200	42	ug/Kg	☼	03/31/15 00:00	04/10/15 13:50	50
Chloroform	<20		98	20	ug/Kg	☼	03/31/15 00:00	04/10/15 13:50	50
Chloromethane	<45		200	45	ug/Kg	☼	03/31/15 00:00	04/10/15 13:50	50
cis-1,2-Dichloroethene	<12		98	12	ug/Kg	☼	03/31/15 00:00	04/10/15 13:50	50
cis-1,3-Dichloropropene	<17		98	17	ug/Kg	☼	03/31/15 00:00	04/10/15 13:50	50
Dibromochloromethane	<34		200	34	ug/Kg	☼	03/31/15 00:00	04/10/15 13:50	50
Dibromomethane	<47		200	47	ug/Kg	☼	03/31/15 00:00	04/10/15 13:50	50
Dichlorodifluoromethane	<50		200	50	ug/Kg	☼	03/31/15 00:00	04/10/15 13:50	50
Ethylbenzene	<12		24	12	ug/Kg	☼	03/31/15 00:00	04/10/15 13:50	50
Hexachlorobutadiene	<34		200	34	ug/Kg	☼	03/31/15 00:00	04/10/15 13:50	50
Isopropyl ether	<14		200	14	ug/Kg	☼	03/31/15 00:00	04/10/15 13:50	50
Isopropylbenzene	<24		200	24	ug/Kg	☼	03/31/15 00:00	04/10/15 13:50	50
Methyl tert-butyl ether	<42		200	42	ug/Kg	☼	03/31/15 00:00	04/10/15 13:50	50
Methylene Chloride	<67		490	67	ug/Kg	☼	03/31/15 00:00	04/10/15 13:50	50
Naphthalene	200		200	48	ug/Kg	☼	03/31/15 00:00	04/10/15 13:50	50
n-Butylbenzene	<13		98	13	ug/Kg	☼	03/31/15 00:00	04/10/15 13:50	50
N-Propylbenzene	<17		200	17	ug/Kg	☼	03/31/15 00:00	04/10/15 13:50	50
p-Isopropyltoluene	<18		200	18	ug/Kg	☼	03/31/15 00:00	04/10/15 13:50	50
sec-Butylbenzene	<15		98	15	ug/Kg	☼	03/31/15 00:00	04/10/15 13:50	50
Styrene	<9.6		98	9.6	ug/Kg	☼	03/31/15 00:00	04/10/15 13:50	50
tert-Butylbenzene	<13		98	13	ug/Kg	☼	03/31/15 00:00	04/10/15 13:50	50
Tetrachloroethene	<16		98	16	ug/Kg	☼	03/31/15 00:00	04/10/15 13:50	50
Toluene	<11		24	11	ug/Kg	☼	03/31/15 00:00	04/10/15 13:50	50
trans-1,2-Dichloroethene	<24		98	24	ug/Kg	☼	03/31/15 00:00	04/10/15 13:50	50
trans-1,3-Dichloropropene	<20		98	20	ug/Kg	☼	03/31/15 00:00	04/10/15 13:50	50
Trichloroethene	<18		49	18	ug/Kg	☼	03/31/15 00:00	04/10/15 13:50	50
Trichlorofluoromethane	<41		200	41	ug/Kg	☼	03/31/15 00:00	04/10/15 13:50	50
Vinyl chloride	<10		24	10	ug/Kg	☼	03/31/15 00:00	04/10/15 13:50	50
Xylenes, Total	<6.7		49	6.7	ug/Kg	☼	03/31/15 00:00	04/10/15 13:50	50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	105		75 - 125	03/31/15 00:00	04/10/15 13:50	50
4-Bromofluorobenzene (Surr)	101		75 - 120	03/31/15 00:00	04/10/15 13:50	50
Dibromofluoromethane	102		75 - 120	03/31/15 00:00	04/10/15 13:50	50
Toluene-d8 (Surr)	100		75 - 120	03/31/15 00:00	04/10/15 13:50	50

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	2500		2400	590	ug/Kg	☼	04/03/15 07:28	04/10/15 18:51	50
2-Methylnaphthalene	910	J	2400	440	ug/Kg	☼	04/03/15 07:28	04/10/15 18:51	50
Acenaphthene	2400		2400	430	ug/Kg	☼	04/03/15 07:28	04/10/15 18:51	50

TestAmerica Chicago

Client Sample Results

Client: TRC Environmental Corporation.
Project/Site: Former CMC Shops Wheelhouse 232269

TestAmerica Job ID: 500-94066-1

Client Sample ID: GP-10 (8-10)

Lab Sample ID: 500-94066-22

Date Collected: 03/31/15 00:00

Matrix: Solid

Date Received: 04/02/15 09:30

Percent Solids: 67.7

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthylene	<320		2400	320	ug/Kg	☼	04/03/15 07:28	04/10/15 18:51	50
Anthracene	990	J	2400	400	ug/Kg	☼	04/03/15 07:28	04/10/15 18:51	50
Benzo[a]anthracene	<320		2400	320	ug/Kg	☼	04/03/15 07:28	04/10/15 18:51	50
Benzo[a]pyrene	<460		2400	460	ug/Kg	☼	04/03/15 07:28	04/10/15 18:51	50
Benzo[b]fluoranthene	<520		2400	520	ug/Kg	☼	04/03/15 07:28	04/10/15 18:51	50
Benzo[g,h,i]perylene	<770		2400	770	ug/Kg	☼	04/03/15 07:28	04/10/15 18:51	50
Benzo[k]fluoranthene	<710		2400	710	ug/Kg	☼	04/03/15 07:28	04/10/15 18:51	50
Chrysene	<650		2400	650	ug/Kg	☼	04/03/15 07:28	04/10/15 18:51	50
Dibenz(a,h)anthracene	<460		2400	460	ug/Kg	☼	04/03/15 07:28	04/10/15 18:51	50
Fluoranthene	<440		2400	440	ug/Kg	☼	04/03/15 07:28	04/10/15 18:51	50
Fluorene	3800		2400	340	ug/Kg	☼	04/03/15 07:28	04/10/15 18:51	50
Indeno[1,2,3-cd]pyrene	<620		2400	620	ug/Kg	☼	04/03/15 07:28	04/10/15 18:51	50
Naphthalene	530	J	2400	370	ug/Kg	☼	04/03/15 07:28	04/10/15 18:51	50
Phenanthrene	1000	J	2400	330	ug/Kg	☼	04/03/15 07:28	04/10/15 18:51	50
Pyrene	1800	J	2400	480	ug/Kg	☼	04/03/15 07:28	04/10/15 18:51	50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	90		25 - 119	04/03/15 07:28	04/10/15 18:51	50
Nitrobenzene-d5 (Surr)	85		25 - 115	04/03/15 07:28	04/10/15 18:51	50
Terphenyl-d14 (Surr)	87		36 - 134	04/03/15 07:28	04/10/15 18:51	50

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<42		120	42	ug/Kg	☼	04/03/15 07:22	04/07/15 16:28	5
PCB-1221	<52		120	52	ug/Kg	☼	04/03/15 07:22	04/07/15 16:28	5
PCB-1232	<51		120	51	ug/Kg	☼	04/03/15 07:22	04/07/15 16:28	5
PCB-1242	<39		120	39	ug/Kg	☼	04/03/15 07:22	04/07/15 16:28	5
PCB-1248	<47		120	47	ug/Kg	☼	04/03/15 07:22	04/07/15 16:28	5
PCB-1254	870		120	25	ug/Kg	☼	04/03/15 07:22	04/07/15 16:28	5
PCB-1260	<58		120	58	ug/Kg	☼	04/03/15 07:22	04/07/15 16:28	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	68		50 - 116	04/03/15 07:22	04/07/15 16:28	5
DCB Decachlorobiphenyl	70		48 - 142	04/03/15 07:22	04/07/15 16:28	5

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	18		1.4	0.66	mg/Kg	☼	04/05/15 18:00	04/06/15 16:44	1
Barium	100		1.4	0.26	mg/Kg	☼	04/05/15 18:00	04/06/15 16:44	1
Cadmium	0.96		0.29	0.083	mg/Kg	☼	04/05/15 18:00	04/06/15 16:44	1
Chromium	11		1.4	0.25	mg/Kg	☼	04/05/15 18:00	04/06/15 16:44	1
Lead	250		0.71	0.36	mg/Kg	☼	04/05/15 18:00	04/06/15 16:44	1
Selenium	1.3	J	1.4	0.71	mg/Kg	☼	04/05/15 18:00	04/06/15 16:44	1
Silver	0.31	J	0.71	0.17	mg/Kg	☼	04/05/15 18:00	04/06/15 16:44	1

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.19		0.023	0.0080	mg/Kg	☼	04/03/15 14:00	04/06/15 09:55	1

TestAmerica Chicago

Client Sample Results

Client: TRC Environmental Corporation.
Project/Site: Former CMC Shops Wheelhouse 232269

TestAmerica Job ID: 500-94066-1

Client Sample ID: GP-10 (14-16)

Lab Sample ID: 500-94066-23

Date Collected: 03/31/15 00:00

Matrix: Solid

Date Received: 04/02/15 09:30

Percent Solids: 70.4

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<32		190	32	ug/Kg	☼	03/31/15 00:00	04/10/15 14:16	50
1,1,1-Trichloroethane	<19		93	19	ug/Kg	☼	03/31/15 00:00	04/10/15 14:16	50
1,1,2,2-Tetrachloroethane	<22		93	22	ug/Kg	☼	03/31/15 00:00	04/10/15 14:16	50
1,1,2-Trichloroethane	<26		93	26	ug/Kg	☼	03/31/15 00:00	04/10/15 14:16	50
1,1-Dichloroethane	<17		93	17	ug/Kg	☼	03/31/15 00:00	04/10/15 14:16	50
1,1-Dichloroethene	<28		93	28	ug/Kg	☼	03/31/15 00:00	04/10/15 14:16	50
1,1-Dichloropropene	<32		93	32	ug/Kg	☼	03/31/15 00:00	04/10/15 14:16	50
1,2,3-Trichlorobenzene	<32		190	32	ug/Kg	☼	03/31/15 00:00	04/10/15 14:16	50
1,2,3-Trichloropropane	<53		190	53	ug/Kg	☼	03/31/15 00:00	04/10/15 14:16	50
1,2,4-Trichlorobenzene	<35		190	35	ug/Kg	☼	03/31/15 00:00	04/10/15 14:16	50
1,2,4-Trimethylbenzene	<20		190	20	ug/Kg	☼	03/31/15 00:00	04/10/15 14:16	50
1,2-Dibromo-3-Chloropropane	<81		190	81	ug/Kg	☼	03/31/15 00:00	04/10/15 14:16	50
1,2-Dibromoethane	<29		190	29	ug/Kg	☼	03/31/15 00:00	04/10/15 14:16	50
1,2-Dichlorobenzene	<19		190	19	ug/Kg	☼	03/31/15 00:00	04/10/15 14:16	50
1,2-Dichloroethane	<26		93	26	ug/Kg	☼	03/31/15 00:00	04/10/15 14:16	50
1,2-Dichloropropane	<18		93	18	ug/Kg	☼	03/31/15 00:00	04/10/15 14:16	50
1,3,5-Trimethylbenzene	<19		190	19	ug/Kg	☼	03/31/15 00:00	04/10/15 14:16	50
1,3-Dichlorobenzene	<24		190	24	ug/Kg	☼	03/31/15 00:00	04/10/15 14:16	50
1,3-Dichloropropane	<12		93	12	ug/Kg	☼	03/31/15 00:00	04/10/15 14:16	50
1,4-Dichlorobenzene	<16		190	16	ug/Kg	☼	03/31/15 00:00	04/10/15 14:16	50
2,2-Dichloropropane	<29		93	29	ug/Kg	☼	03/31/15 00:00	04/10/15 14:16	50
2-Chlorotoluene	<19		93	19	ug/Kg	☼	03/31/15 00:00	04/10/15 14:16	50
4-Chlorotoluene	<18		93	18	ug/Kg	☼	03/31/15 00:00	04/10/15 14:16	50
Benzene	<6.9		23	6.9	ug/Kg	☼	03/31/15 00:00	04/10/15 14:16	50
Bromobenzene	<39		190	39	ug/Kg	☼	03/31/15 00:00	04/10/15 14:16	50
Bromochloromethane	<35		190	35	ug/Kg	☼	03/31/15 00:00	04/10/15 14:16	50
Bromodichloromethane	<31		190	31	ug/Kg	☼	03/31/15 00:00	04/10/15 14:16	50
Bromoform	<41		190	41	ug/Kg	☼	03/31/15 00:00	04/10/15 14:16	50
Bromomethane	<63		190	63	ug/Kg	☼	03/31/15 00:00	04/10/15 14:16	50
Carbon tetrachloride	<24		93	24	ug/Kg	☼	03/31/15 00:00	04/10/15 14:16	50
Chlorobenzene	<13		93	13	ug/Kg	☼	03/31/15 00:00	04/10/15 14:16	50
Chloroethane	<40		190	40	ug/Kg	☼	03/31/15 00:00	04/10/15 14:16	50
Chloroform	<19		93	19	ug/Kg	☼	03/31/15 00:00	04/10/15 14:16	50
Chloromethane	<43		190	43	ug/Kg	☼	03/31/15 00:00	04/10/15 14:16	50
cis-1,2-Dichloroethene	<11		93	11	ug/Kg	☼	03/31/15 00:00	04/10/15 14:16	50
cis-1,3-Dichloropropene	<16		93	16	ug/Kg	☼	03/31/15 00:00	04/10/15 14:16	50
Dibromochloromethane	<32		190	32	ug/Kg	☼	03/31/15 00:00	04/10/15 14:16	50
Dibromomethane	<44		190	44	ug/Kg	☼	03/31/15 00:00	04/10/15 14:16	50
Dichlorodifluoromethane	<47		190	47	ug/Kg	☼	03/31/15 00:00	04/10/15 14:16	50
Ethylbenzene	<12		23	12	ug/Kg	☼	03/31/15 00:00	04/10/15 14:16	50
Hexachlorobutadiene	<32		190	32	ug/Kg	☼	03/31/15 00:00	04/10/15 14:16	50
Isopropyl ether	<14		190	14	ug/Kg	☼	03/31/15 00:00	04/10/15 14:16	50
Isopropylbenzene	<23		190	23	ug/Kg	☼	03/31/15 00:00	04/10/15 14:16	50
Methyl tert-butyl ether	<40		190	40	ug/Kg	☼	03/31/15 00:00	04/10/15 14:16	50
Methylene Chloride	<63		460	63	ug/Kg	☼	03/31/15 00:00	04/10/15 14:16	50
Naphthalene	<46		190	46	ug/Kg	☼	03/31/15 00:00	04/10/15 14:16	50
n-Butylbenzene	<12		93	12	ug/Kg	☼	03/31/15 00:00	04/10/15 14:16	50
N-Propylbenzene	<16		190	16	ug/Kg	☼	03/31/15 00:00	04/10/15 14:16	50
p-Isopropyltoluene	<17		190	17	ug/Kg	☼	03/31/15 00:00	04/10/15 14:16	50

TestAmerica Chicago

Client Sample Results

Client: TRC Environmental Corporation.
Project/Site: Former CMC Shops Wheelhouse 232269

TestAmerica Job ID: 500-94066-1

Client Sample ID: GP-10 (14-16)

Date Collected: 03/31/15 00:00

Date Received: 04/02/15 09:30

Lab Sample ID: 500-94066-23

Matrix: Solid

Percent Solids: 70.4

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	<14		93	14	ug/Kg	☼	03/31/15 00:00	04/10/15 14:16	50
Styrene	<9.1		93	9.1	ug/Kg	☼	03/31/15 00:00	04/10/15 14:16	50
tert-Butylbenzene	<13		93	13	ug/Kg	☼	03/31/15 00:00	04/10/15 14:16	50
Tetrachloroethene	<15		93	15	ug/Kg	☼	03/31/15 00:00	04/10/15 14:16	50
Toluene	<11		23	11	ug/Kg	☼	03/31/15 00:00	04/10/15 14:16	50
trans-1,2-Dichloroethene	<23		93	23	ug/Kg	☼	03/31/15 00:00	04/10/15 14:16	50
trans-1,3-Dichloropropene	<19		93	19	ug/Kg	☼	03/31/15 00:00	04/10/15 14:16	50
Trichloroethene	<17		46	17	ug/Kg	☼	03/31/15 00:00	04/10/15 14:16	50
Trichlorofluoromethane	<38		190	38	ug/Kg	☼	03/31/15 00:00	04/10/15 14:16	50
Vinyl chloride	<9.6		23	9.6	ug/Kg	☼	03/31/15 00:00	04/10/15 14:16	50
Xylenes, Total	<6.3		46	6.3	ug/Kg	☼	03/31/15 00:00	04/10/15 14:16	50
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	106		75 - 125				03/31/15 00:00	04/10/15 14:16	50
4-Bromofluorobenzene (Surr)	101		75 - 120				03/31/15 00:00	04/10/15 14:16	50
Dibromofluoromethane	103		75 - 120				03/31/15 00:00	04/10/15 14:16	50
Toluene-d8 (Surr)	99		75 - 120				03/31/15 00:00	04/10/15 14:16	50

Client Sample ID: GP-11 (4-6)

Date Collected: 03/31/15 00:00

Date Received: 04/02/15 09:30

Lab Sample ID: 500-94066-24

Matrix: Solid

Percent Solids: 87.5

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<22		130	22	ug/Kg	☼	03/31/15 00:00	04/10/15 14:41	50
1,1,1-Trichloroethane	<13		65	13	ug/Kg	☼	03/31/15 00:00	04/10/15 14:41	50
1,1,2,2-Tetrachloroethane	<15		65	15	ug/Kg	☼	03/31/15 00:00	04/10/15 14:41	50
1,1,2-Trichloroethane	<18		65	18	ug/Kg	☼	03/31/15 00:00	04/10/15 14:41	50
1,1-Dichloroethane	<12		65	12	ug/Kg	☼	03/31/15 00:00	04/10/15 14:41	50
1,1-Dichloroethene	<20		65	20	ug/Kg	☼	03/31/15 00:00	04/10/15 14:41	50
1,1-Dichloropropene	<22		65	22	ug/Kg	☼	03/31/15 00:00	04/10/15 14:41	50
1,2,3-Trichlorobenzene	<23		130	23	ug/Kg	☼	03/31/15 00:00	04/10/15 14:41	50
1,2,3-Trichloropropane	<37		130	37	ug/Kg	☼	03/31/15 00:00	04/10/15 14:41	50
1,2,4-Trichlorobenzene	<24		130	24	ug/Kg	☼	03/31/15 00:00	04/10/15 14:41	50
1,2,4-Trimethylbenzene	<14		130	14	ug/Kg	☼	03/31/15 00:00	04/10/15 14:41	50
1,2-Dibromo-3-Chloropropane	<56		130	56	ug/Kg	☼	03/31/15 00:00	04/10/15 14:41	50
1,2-Dibromoethane	<20		130	20	ug/Kg	☼	03/31/15 00:00	04/10/15 14:41	50
1,2-Dichlorobenzene	<13		130	13	ug/Kg	☼	03/31/15 00:00	04/10/15 14:41	50
1,2-Dichloroethane	<18		65	18	ug/Kg	☼	03/31/15 00:00	04/10/15 14:41	50
1,2-Dichloropropane	<13		65	13	ug/Kg	☼	03/31/15 00:00	04/10/15 14:41	50
1,3,5-Trimethylbenzene	<13		130	13	ug/Kg	☼	03/31/15 00:00	04/10/15 14:41	50
1,3-Dichlorobenzene	<17		130	17	ug/Kg	☼	03/31/15 00:00	04/10/15 14:41	50
1,3-Dichloropropane	<8.7		65	8.7	ug/Kg	☼	03/31/15 00:00	04/10/15 14:41	50
1,4-Dichlorobenzene	<11		130	11	ug/Kg	☼	03/31/15 00:00	04/10/15 14:41	50
2,2-Dichloropropane	<20		65	20	ug/Kg	☼	03/31/15 00:00	04/10/15 14:41	50
2-Chlorotoluene	<13		65	13	ug/Kg	☼	03/31/15 00:00	04/10/15 14:41	50
4-Chlorotoluene	<13		65	13	ug/Kg	☼	03/31/15 00:00	04/10/15 14:41	50
Benzene	<4.8		16	4.8	ug/Kg	☼	03/31/15 00:00	04/10/15 14:41	50
Bromobenzene	<27		130	27	ug/Kg	☼	03/31/15 00:00	04/10/15 14:41	50
Bromochloromethane	<24		130	24	ug/Kg	☼	03/31/15 00:00	04/10/15 14:41	50

TestAmerica Chicago

Client Sample Results

Client: TRC Environmental Corporation.
Project/Site: Former CMC Shops Wheelhouse 232269

TestAmerica Job ID: 500-94066-1

Client Sample ID: GP-11 (4-6)

Lab Sample ID: 500-94066-24

Date Collected: 03/31/15 00:00

Matrix: Solid

Date Received: 04/02/15 09:30

Percent Solids: 87.5

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromodichloromethane	<22		130	22	ug/Kg	☼	03/31/15 00:00	04/10/15 14:41	50
Bromoform	<28		130	28	ug/Kg	☼	03/31/15 00:00	04/10/15 14:41	50
Bromomethane	<44		130	44	ug/Kg	☼	03/31/15 00:00	04/10/15 14:41	50
Carbon tetrachloride	<17		65	17	ug/Kg	☼	03/31/15 00:00	04/10/15 14:41	50
Chlorobenzene	<9.2		65	9.2	ug/Kg	☼	03/31/15 00:00	04/10/15 14:41	50
Chloroethane	<28		130	28	ug/Kg	☼	03/31/15 00:00	04/10/15 14:41	50
Chloroform	<13		65	13	ug/Kg	☼	03/31/15 00:00	04/10/15 14:41	50
Chloromethane	<30		130	30	ug/Kg	☼	03/31/15 00:00	04/10/15 14:41	50
cis-1,2-Dichloroethene	<7.9		65	7.9	ug/Kg	☼	03/31/15 00:00	04/10/15 14:41	50
cis-1,3-Dichloropropene	<12		65	12	ug/Kg	☼	03/31/15 00:00	04/10/15 14:41	50
Dibromochloromethane	<22		130	22	ug/Kg	☼	03/31/15 00:00	04/10/15 14:41	50
Dibromomethane	<31		130	31	ug/Kg	☼	03/31/15 00:00	04/10/15 14:41	50
Dichlorodifluoromethane	<33		130	33	ug/Kg	☼	03/31/15 00:00	04/10/15 14:41	50
Ethylbenzene	<8.1		16	8.1	ug/Kg	☼	03/31/15 00:00	04/10/15 14:41	50
Hexachlorobutadiene	<22		130	22	ug/Kg	☼	03/31/15 00:00	04/10/15 14:41	50
Isopropyl ether	<9.5		130	9.5	ug/Kg	☼	03/31/15 00:00	04/10/15 14:41	50
Isopropylbenzene	<16		130	16	ug/Kg	☼	03/31/15 00:00	04/10/15 14:41	50
Methyl tert-butyl ether	<28		130	28	ug/Kg	☼	03/31/15 00:00	04/10/15 14:41	50
Methylene Chloride	<44		320	44	ug/Kg	☼	03/31/15 00:00	04/10/15 14:41	50
Naphthalene	<32		130	32	ug/Kg	☼	03/31/15 00:00	04/10/15 14:41	50
n-Butylbenzene	<8.3		65	8.3	ug/Kg	☼	03/31/15 00:00	04/10/15 14:41	50
N-Propylbenzene	<11		130	11	ug/Kg	☼	03/31/15 00:00	04/10/15 14:41	50
p-Isopropyltoluene	<12		130	12	ug/Kg	☼	03/31/15 00:00	04/10/15 14:41	50
sec-Butylbenzene	<10		65	10	ug/Kg	☼	03/31/15 00:00	04/10/15 14:41	50
Styrene	<6.4		65	6.4	ug/Kg	☼	03/31/15 00:00	04/10/15 14:41	50
tert-Butylbenzene	<8.8		65	8.8	ug/Kg	☼	03/31/15 00:00	04/10/15 14:41	50
Tetrachloroethene	<11		65	11	ug/Kg	☼	03/31/15 00:00	04/10/15 14:41	50
Toluene	<7.4		16	7.4	ug/Kg	☼	03/31/15 00:00	04/10/15 14:41	50
trans-1,2-Dichloroethene	<16		65	16	ug/Kg	☼	03/31/15 00:00	04/10/15 14:41	50
trans-1,3-Dichloropropene	<13		65	13	ug/Kg	☼	03/31/15 00:00	04/10/15 14:41	50
Trichloroethene	<12		32	12	ug/Kg	☼	03/31/15 00:00	04/10/15 14:41	50
Trichlorofluoromethane	<27		130	27	ug/Kg	☼	03/31/15 00:00	04/10/15 14:41	50
Vinyl chloride	<6.7		16	6.7	ug/Kg	☼	03/31/15 00:00	04/10/15 14:41	50
Xylenes, Total	<4.4		32	4.4	ug/Kg	☼	03/31/15 00:00	04/10/15 14:41	50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	106		75 - 125	03/31/15 00:00	04/10/15 14:41	50
4-Bromofluorobenzene (Surr)	106		75 - 120	03/31/15 00:00	04/10/15 14:41	50
Dibromofluoromethane	103		75 - 120	03/31/15 00:00	04/10/15 14:41	50
Toluene-d8 (Surr)	98		75 - 120	03/31/15 00:00	04/10/15 14:41	50

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	67		36	8.8	ug/Kg	☼	04/03/15 07:28	04/10/15 19:10	1
2-Methylnaphthalene	88		36	6.6	ug/Kg	☼	04/03/15 07:28	04/10/15 19:10	1
Acenaphthene	51		36	6.5	ug/Kg	☼	04/03/15 07:28	04/10/15 19:10	1
Acenaphthylene	18	J	36	4.7	ug/Kg	☼	04/03/15 07:28	04/10/15 19:10	1
Anthracene	170		36	6.0	ug/Kg	☼	04/03/15 07:28	04/10/15 19:10	1
Benzo[a]anthracene	540		36	4.8	ug/Kg	☼	04/03/15 07:28	04/10/15 19:10	1
Benzo[a]pyrene	490		36	6.9	ug/Kg	☼	04/03/15 07:28	04/10/15 19:10	1

TestAmerica Chicago

Client Sample Results

Client: TRC Environmental Corporation.
Project/Site: Former CMC Shops Wheelhouse 232269

TestAmerica Job ID: 500-94066-1

Client Sample ID: GP-11 (4-6)

Lab Sample ID: 500-94066-24

Date Collected: 03/31/15 00:00

Matrix: Solid

Date Received: 04/02/15 09:30

Percent Solids: 87.5

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[b]fluoranthene	700		36	7.7	ug/Kg	☼	04/03/15 07:28	04/10/15 19:10	1
Benzo[g,h,i]perylene	260		36	12	ug/Kg	☼	04/03/15 07:28	04/10/15 19:10	1
Benzo[k]fluoranthene	280		36	11	ug/Kg	☼	04/03/15 07:28	04/10/15 19:10	1
Chrysene	540		36	9.8	ug/Kg	☼	04/03/15 07:28	04/10/15 19:10	1
Dibenz[a,h]anthracene	<6.9		36	6.9	ug/Kg	☼	04/03/15 07:28	04/10/15 19:10	1
Fluoranthene	870		36	6.7	ug/Kg	☼	04/03/15 07:28	04/10/15 19:10	1
Fluorene	56		36	5.0	ug/Kg	☼	04/03/15 07:28	04/10/15 19:10	1
Indeno[1,2,3-cd]pyrene	260		36	9.3	ug/Kg	☼	04/03/15 07:28	04/10/15 19:10	1
Naphthalene	43		36	5.5	ug/Kg	☼	04/03/15 07:28	04/10/15 19:10	1
Phenanthrene	610		36	5.0	ug/Kg	☼	04/03/15 07:28	04/10/15 19:10	1
Pyrene	1600		36	7.1	ug/Kg	☼	04/03/15 07:28	04/10/15 19:10	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	46		25 - 119	04/03/15 07:28	04/10/15 19:10	1
Nitrobenzene-d5 (Surr)	27		25 - 115	04/03/15 07:28	04/10/15 19:10	1
Terphenyl-d14 (Surr)	101		36 - 134	04/03/15 07:28	04/10/15 19:10	1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<6.7		19	6.7	ug/Kg	☼	04/03/15 07:22	04/04/15 13:28	1
PCB-1221	<8.4		19	8.4	ug/Kg	☼	04/03/15 07:22	04/04/15 13:28	1
PCB-1232	<8.3		19	8.3	ug/Kg	☼	04/03/15 07:22	04/04/15 13:28	1
PCB-1242	<6.2		19	6.2	ug/Kg	☼	04/03/15 07:22	04/04/15 13:28	1
PCB-1248	<7.5		19	7.5	ug/Kg	☼	04/03/15 07:22	04/04/15 13:28	1
PCB-1254	<4.1		19	4.1	ug/Kg	☼	04/03/15 07:22	04/04/15 13:28	1
PCB-1260	<9.3		19	9.3	ug/Kg	☼	04/03/15 07:22	04/04/15 13:28	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	78		50 - 116	04/03/15 07:22	04/04/15 13:28	1
DCB Decachlorobiphenyl	65		48 - 142	04/03/15 07:22	04/04/15 13:28	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	4.2		1.0	0.47	mg/Kg	☼	04/05/15 18:00	04/06/15 16:49	1
Barium	52		1.0	0.19	mg/Kg	☼	04/05/15 18:00	04/06/15 16:49	1
Cadmium	0.35		0.20	0.059	mg/Kg	☼	04/05/15 18:00	04/06/15 16:49	1
Chromium	13		1.0	0.17	mg/Kg	☼	04/05/15 18:00	04/06/15 16:49	1
Lead	53		0.51	0.25	mg/Kg	☼	04/05/15 18:00	04/06/15 16:49	1
Selenium	<0.50		1.0	0.50	mg/Kg	☼	04/05/15 18:00	04/06/15 16:49	1
Silver	<0.12		0.51	0.12	mg/Kg	☼	04/05/15 18:00	04/06/15 16:49	1

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.061		0.018	0.0062	mg/Kg	☼	04/03/15 14:00	04/06/15 09:57	1

TestAmerica Chicago

Client Sample Results

Client: TRC Environmental Corporation.
Project/Site: Former CMC Shops Wheelhouse 232269

TestAmerica Job ID: 500-94066-1

Client Sample ID: GP-12 (4-6)

Lab Sample ID: 500-94066-25

Date Collected: 03/31/15 00:00

Matrix: Solid

Date Received: 04/02/15 09:30

Percent Solids: 84.2

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<24		140	24	ug/Kg	☼	03/31/15 00:00	04/10/15 15:07	50
1,1,1-Trichloroethane	<14		69	14	ug/Kg	☼	03/31/15 00:00	04/10/15 15:07	50
1,1,2,2-Tetrachloroethane	<16		69	16	ug/Kg	☼	03/31/15 00:00	04/10/15 15:07	50
1,1,2-Trichloroethane	<19		69	19	ug/Kg	☼	03/31/15 00:00	04/10/15 15:07	50
1,1-Dichloroethane	<13		69	13	ug/Kg	☼	03/31/15 00:00	04/10/15 15:07	50
1,1-Dichloroethene	<21		69	21	ug/Kg	☼	03/31/15 00:00	04/10/15 15:07	50
1,1-Dichloropropene	<24		69	24	ug/Kg	☼	03/31/15 00:00	04/10/15 15:07	50
1,2,3-Trichlorobenzene	<24		140	24	ug/Kg	☼	03/31/15 00:00	04/10/15 15:07	50
1,2,3-Trichloropropane	<40		140	40	ug/Kg	☼	03/31/15 00:00	04/10/15 15:07	50
1,2,4-Trichlorobenzene	<26		140	26	ug/Kg	☼	03/31/15 00:00	04/10/15 15:07	50
1,2,4-Trimethylbenzene	<15		140	15	ug/Kg	☼	03/31/15 00:00	04/10/15 15:07	50
1,2-Dibromo-3-Chloropropane	<60		140	60	ug/Kg	☼	03/31/15 00:00	04/10/15 15:07	50
1,2-Dibromoethane	<22		140	22	ug/Kg	☼	03/31/15 00:00	04/10/15 15:07	50
1,2-Dichlorobenzene	<14		140	14	ug/Kg	☼	03/31/15 00:00	04/10/15 15:07	50
1,2-Dichloroethane	<20		69	20	ug/Kg	☼	03/31/15 00:00	04/10/15 15:07	50
1,2-Dichloropropane	<13		69	13	ug/Kg	☼	03/31/15 00:00	04/10/15 15:07	50
1,3,5-Trimethylbenzene	<14		140	14	ug/Kg	☼	03/31/15 00:00	04/10/15 15:07	50
1,3-Dichlorobenzene	<18		140	18	ug/Kg	☼	03/31/15 00:00	04/10/15 15:07	50
1,3-Dichloropropane	<9.2		69	9.2	ug/Kg	☼	03/31/15 00:00	04/10/15 15:07	50
1,4-Dichlorobenzene	<12		140	12	ug/Kg	☼	03/31/15 00:00	04/10/15 15:07	50
2,2-Dichloropropane	<22		69	22	ug/Kg	☼	03/31/15 00:00	04/10/15 15:07	50
2-Chlorotoluene	<14		69	14	ug/Kg	☼	03/31/15 00:00	04/10/15 15:07	50
4-Chlorotoluene	<14		69	14	ug/Kg	☼	03/31/15 00:00	04/10/15 15:07	50
Benzene	<5.1		17	5.1	ug/Kg	☼	03/31/15 00:00	04/10/15 15:07	50
Bromobenzene	<29		140	29	ug/Kg	☼	03/31/15 00:00	04/10/15 15:07	50
Bromochloromethane	<26		140	26	ug/Kg	☼	03/31/15 00:00	04/10/15 15:07	50
Bromodichloromethane	<23		140	23	ug/Kg	☼	03/31/15 00:00	04/10/15 15:07	50
Bromoform	<30		140	30	ug/Kg	☼	03/31/15 00:00	04/10/15 15:07	50
Bromomethane	<47		140	47	ug/Kg	☼	03/31/15 00:00	04/10/15 15:07	50
Carbon tetrachloride	<18		69	18	ug/Kg	☼	03/31/15 00:00	04/10/15 15:07	50
Chlorobenzene	<9.8		69	9.8	ug/Kg	☼	03/31/15 00:00	04/10/15 15:07	50
Chloroethane	<30		140	30	ug/Kg	☼	03/31/15 00:00	04/10/15 15:07	50
Chloroform	<14		69	14	ug/Kg	☼	03/31/15 00:00	04/10/15 15:07	50
Chloromethane	<32		140	32	ug/Kg	☼	03/31/15 00:00	04/10/15 15:07	50
cis-1,2-Dichloroethene	<8.5		69	8.5	ug/Kg	☼	03/31/15 00:00	04/10/15 15:07	50
cis-1,3-Dichloropropene	<12		69	12	ug/Kg	☼	03/31/15 00:00	04/10/15 15:07	50
Dibromochloromethane	<24		140	24	ug/Kg	☼	03/31/15 00:00	04/10/15 15:07	50
Dibromomethane	<33		140	33	ug/Kg	☼	03/31/15 00:00	04/10/15 15:07	50
Dichlorodifluoromethane	<35		140	35	ug/Kg	☼	03/31/15 00:00	04/10/15 15:07	50
Ethylbenzene	<8.7		17	8.7	ug/Kg	☼	03/31/15 00:00	04/10/15 15:07	50
Hexachlorobutadiene	<24		140	24	ug/Kg	☼	03/31/15 00:00	04/10/15 15:07	50
Isopropyl ether	<10		140	10	ug/Kg	☼	03/31/15 00:00	04/10/15 15:07	50
Isopropylbenzene	<17		140	17	ug/Kg	☼	03/31/15 00:00	04/10/15 15:07	50
Methyl tert-butyl ether	<30		140	30	ug/Kg	☼	03/31/15 00:00	04/10/15 15:07	50
Methylene Chloride	<47		340	47	ug/Kg	☼	03/31/15 00:00	04/10/15 15:07	50
Naphthalene	<34		140	34	ug/Kg	☼	03/31/15 00:00	04/10/15 15:07	50
n-Butylbenzene	<8.9		69	8.9	ug/Kg	☼	03/31/15 00:00	04/10/15 15:07	50
N-Propylbenzene	<12		140	12	ug/Kg	☼	03/31/15 00:00	04/10/15 15:07	50
p-Isopropyltoluene	<13		140	13	ug/Kg	☼	03/31/15 00:00	04/10/15 15:07	50

TestAmerica Chicago

Client Sample Results

Client: TRC Environmental Corporation.
Project/Site: Former CMC Shops Wheelhouse 232269

TestAmerica Job ID: 500-94066-1

Client Sample ID: GP-12 (4-6)

Lab Sample ID: 500-94066-25

Date Collected: 03/31/15 00:00

Matrix: Solid

Date Received: 04/02/15 09:30

Percent Solids: 84.2

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	<11		69	11	ug/Kg	☼	03/31/15 00:00	04/10/15 15:07	50
Styrene	<6.8		69	6.8	ug/Kg	☼	03/31/15 00:00	04/10/15 15:07	50
tert-Butylbenzene	<9.4		69	9.4	ug/Kg	☼	03/31/15 00:00	04/10/15 15:07	50
Tetrachloroethene	<12		69	12	ug/Kg	☼	03/31/15 00:00	04/10/15 15:07	50
Toluene	<7.9		17	7.9	ug/Kg	☼	03/31/15 00:00	04/10/15 15:07	50
trans-1,2-Dichloroethene	<17		69	17	ug/Kg	☼	03/31/15 00:00	04/10/15 15:07	50
trans-1,3-Dichloropropene	<14		69	14	ug/Kg	☼	03/31/15 00:00	04/10/15 15:07	50
Trichloroethene	<13		34	13	ug/Kg	☼	03/31/15 00:00	04/10/15 15:07	50
Trichlorofluoromethane	<29		140	29	ug/Kg	☼	03/31/15 00:00	04/10/15 15:07	50
Vinyl chloride	<7.2		17	7.2	ug/Kg	☼	03/31/15 00:00	04/10/15 15:07	50
Xylenes, Total	<4.7		34	4.7	ug/Kg	☼	03/31/15 00:00	04/10/15 15:07	50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	105		75 - 125	03/31/15 00:00	04/10/15 15:07	50
4-Bromofluorobenzene (Surr)	103		75 - 120	03/31/15 00:00	04/10/15 15:07	50
Dibromofluoromethane	102		75 - 120	03/31/15 00:00	04/10/15 15:07	50
Toluene-d8 (Surr)	100		75 - 120	03/31/15 00:00	04/10/15 15:07	50

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	14	J	39	9.5	ug/Kg	☼	04/03/15 07:28	04/08/15 17:24	1
2-Methylnaphthalene	21	J	39	7.1	ug/Kg	☼	04/03/15 07:28	04/08/15 17:24	1
Acenaphthene	38	J	39	7.0	ug/Kg	☼	04/03/15 07:28	04/08/15 17:24	1
Acenaphthylene	75		39	5.1	ug/Kg	☼	04/03/15 07:28	04/08/15 17:24	1
Anthracene	140		39	6.5	ug/Kg	☼	04/03/15 07:28	04/08/15 17:24	1
Benzo[a]anthracene	680		39	5.2	ug/Kg	☼	04/03/15 07:28	04/08/15 17:24	1
Benzo[a]pyrene	590		39	7.5	ug/Kg	☼	04/03/15 07:28	04/08/15 17:24	1
Benzo[b]fluoranthene	850		39	8.4	ug/Kg	☼	04/03/15 07:28	04/08/15 17:24	1
Benzo[g,h,i]perylene	390		39	12	ug/Kg	☼	04/03/15 07:28	04/08/15 17:24	1
Benzo[k]fluoranthene	460		39	11	ug/Kg	☼	04/03/15 07:28	04/08/15 17:24	1
Chrysene	700		39	11	ug/Kg	☼	04/03/15 07:28	04/08/15 17:24	1
Dibenz(a,h)anthracene	95		39	7.5	ug/Kg	☼	04/03/15 07:28	04/08/15 17:24	1
Fluoranthene	1000		39	7.2	ug/Kg	☼	04/03/15 07:28	04/08/15 17:24	1
Fluorene	38	J	39	5.4	ug/Kg	☼	04/03/15 07:28	04/08/15 17:24	1
Indeno[1,2,3-cd]pyrene	340		39	10	ug/Kg	☼	04/03/15 07:28	04/08/15 17:24	1
Naphthalene	44		39	6.0	ug/Kg	☼	04/03/15 07:28	04/08/15 17:24	1
Phenanthrene	260		39	5.4	ug/Kg	☼	04/03/15 07:28	04/08/15 17:24	1
Pyrene	830		39	7.7	ug/Kg	☼	04/03/15 07:28	04/08/15 17:24	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	53		25 - 119	04/03/15 07:28	04/08/15 17:24	1
Nitrobenzene-d5 (Surr)	34		25 - 115	04/03/15 07:28	04/08/15 17:24	1
Terphenyl-d14 (Surr)	64		36 - 134	04/03/15 07:28	04/08/15 17:24	1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<6.7		19	6.7	ug/Kg	☼	04/03/15 07:22	04/04/15 13:42	1
PCB-1221	<8.4		19	8.4	ug/Kg	☼	04/03/15 07:22	04/04/15 13:42	1
PCB-1232	<8.3		19	8.3	ug/Kg	☼	04/03/15 07:22	04/04/15 13:42	1
PCB-1242	<6.2		19	6.2	ug/Kg	☼	04/03/15 07:22	04/04/15 13:42	1

TestAmerica Chicago

Client Sample Results

Client: TRC Environmental Corporation.
Project/Site: Former CMC Shops Wheelhouse 232269

TestAmerica Job ID: 500-94066-1

Client Sample ID: GP-12 (4-6)

Lab Sample ID: 500-94066-25

Date Collected: 03/31/15 00:00

Matrix: Solid

Date Received: 04/02/15 09:30

Percent Solids: 84.2

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1248	<7.5		19	7.5	ug/Kg	☼	04/03/15 07:22	04/04/15 13:42	1
PCB-1254	24		19	4.1	ug/Kg	☼	04/03/15 07:22	04/04/15 13:42	1
PCB-1260	19		19	9.3	ug/Kg	☼	04/03/15 07:22	04/04/15 13:42	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	82		50 - 116				04/03/15 07:22	04/04/15 13:42	1
DCB Decachlorobiphenyl	73		48 - 142				04/03/15 07:22	04/04/15 13:42	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	4.1		1.2	0.53	mg/Kg	☼	04/05/15 18:00	04/06/15 16:54	1
Barium	53		1.2	0.21	mg/Kg	☼	04/05/15 18:00	04/06/15 16:54	1
Cadmium	0.38		0.23	0.067	mg/Kg	☼	04/05/15 18:00	04/06/15 16:54	1
Chromium	17		1.2	0.20	mg/Kg	☼	04/05/15 18:00	04/06/15 16:54	1
Lead	37		0.58	0.29	mg/Kg	☼	04/05/15 18:00	04/06/15 16:54	1
Selenium	<0.57		1.2	0.57	mg/Kg	☼	04/05/15 18:00	04/06/15 16:54	1
Silver	<0.14		0.58	0.14	mg/Kg	☼	04/05/15 18:00	04/06/15 16:54	1

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.040		0.018	0.0062	mg/Kg	☼	04/03/15 14:00	04/06/15 09:59	1

Client Sample ID: GP-13 (2-4)

Lab Sample ID: 500-94066-26

Date Collected: 03/31/15 00:00

Matrix: Solid

Date Received: 04/02/15 09:30

Percent Solids: 87.5

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<22		130	22	ug/Kg	☼	03/31/15 00:00	04/10/15 15:32	50
1,1,1-Trichloroethane	<13		64	13	ug/Kg	☼	03/31/15 00:00	04/10/15 15:32	50
1,1,2,2-Tetrachloroethane	<15		64	15	ug/Kg	☼	03/31/15 00:00	04/10/15 15:32	50
1,1,2-Trichloroethane	<18		64	18	ug/Kg	☼	03/31/15 00:00	04/10/15 15:32	50
1,1-Dichloroethane	<12		64	12	ug/Kg	☼	03/31/15 00:00	04/10/15 15:32	50
1,1-Dichloroethene	<20		64	20	ug/Kg	☼	03/31/15 00:00	04/10/15 15:32	50
1,1-Dichloropropene	<22		64	22	ug/Kg	☼	03/31/15 00:00	04/10/15 15:32	50
1,2,3-Trichlorobenzene	<23		130	23	ug/Kg	☼	03/31/15 00:00	04/10/15 15:32	50
1,2,3-Trichloropropane	<37		130	37	ug/Kg	☼	03/31/15 00:00	04/10/15 15:32	50
1,2,4-Trichlorobenzene	<24		130	24	ug/Kg	☼	03/31/15 00:00	04/10/15 15:32	50
1,2,4-Trimethylbenzene	<14		130	14	ug/Kg	☼	03/31/15 00:00	04/10/15 15:32	50
1,2-Dibromo-3-Chloropropane	<56		130	56	ug/Kg	☼	03/31/15 00:00	04/10/15 15:32	50
1,2-Dibromoethane	<20		130	20	ug/Kg	☼	03/31/15 00:00	04/10/15 15:32	50
1,2-Dichlorobenzene	<13		130	13	ug/Kg	☼	03/31/15 00:00	04/10/15 15:32	50
1,2-Dichloroethane	<18		64	18	ug/Kg	☼	03/31/15 00:00	04/10/15 15:32	50
1,2-Dichloropropane	<13		64	13	ug/Kg	☼	03/31/15 00:00	04/10/15 15:32	50
1,3,5-Trimethylbenzene	<13		130	13	ug/Kg	☼	03/31/15 00:00	04/10/15 15:32	50
1,3-Dichlorobenzene	<17		130	17	ug/Kg	☼	03/31/15 00:00	04/10/15 15:32	50
1,3-Dichloropropane	<8.6		64	8.6	ug/Kg	☼	03/31/15 00:00	04/10/15 15:32	50
1,4-Dichlorobenzene	<11		130	11	ug/Kg	☼	03/31/15 00:00	04/10/15 15:32	50
2,2-Dichloropropane	<20		64	20	ug/Kg	☼	03/31/15 00:00	04/10/15 15:32	50
2-Chlorotoluene	<13		64	13	ug/Kg	☼	03/31/15 00:00	04/10/15 15:32	50

TestAmerica Chicago

Client Sample Results

Client: TRC Environmental Corporation.
Project/Site: Former CMC Shops Wheelhouse 232269

TestAmerica Job ID: 500-94066-1

Client Sample ID: GP-13 (2-4)

Lab Sample ID: 500-94066-26

Date Collected: 03/31/15 00:00

Matrix: Solid

Date Received: 04/02/15 09:30

Percent Solids: 87.5

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Chlorotoluene	<13		64	13	ug/Kg	☼	03/31/15 00:00	04/10/15 15:32	50
Benzene	<4.8		16	4.8	ug/Kg	☼	03/31/15 00:00	04/10/15 15:32	50
Bromobenzene	<27		130	27	ug/Kg	☼	03/31/15 00:00	04/10/15 15:32	50
Bromochloromethane	<24		130	24	ug/Kg	☼	03/31/15 00:00	04/10/15 15:32	50
Bromodichloromethane	<22		130	22	ug/Kg	☼	03/31/15 00:00	04/10/15 15:32	50
Bromoform	<28		130	28	ug/Kg	☼	03/31/15 00:00	04/10/15 15:32	50
Bromomethane	<44		130	44	ug/Kg	☼	03/31/15 00:00	04/10/15 15:32	50
Carbon tetrachloride	<17		64	17	ug/Kg	☼	03/31/15 00:00	04/10/15 15:32	50
Chlorobenzene	<9.2		64	9.2	ug/Kg	☼	03/31/15 00:00	04/10/15 15:32	50
Chloroethane	<28		130	28	ug/Kg	☼	03/31/15 00:00	04/10/15 15:32	50
Chloroform	<13		64	13	ug/Kg	☼	03/31/15 00:00	04/10/15 15:32	50
Chloromethane	<30		130	30	ug/Kg	☼	03/31/15 00:00	04/10/15 15:32	50
cis-1,2-Dichloroethene	<7.9		64	7.9	ug/Kg	☼	03/31/15 00:00	04/10/15 15:32	50
cis-1,3-Dichloropropene	<11		64	11	ug/Kg	☼	03/31/15 00:00	04/10/15 15:32	50
Dibromochloromethane	<22		130	22	ug/Kg	☼	03/31/15 00:00	04/10/15 15:32	50
Dibromomethane	<31		130	31	ug/Kg	☼	03/31/15 00:00	04/10/15 15:32	50
Dichlorodifluoromethane	<33		130	33	ug/Kg	☼	03/31/15 00:00	04/10/15 15:32	50
Ethylbenzene	<8.1		16	8.1	ug/Kg	☼	03/31/15 00:00	04/10/15 15:32	50
Hexachlorobutadiene	<22		130	22	ug/Kg	☼	03/31/15 00:00	04/10/15 15:32	50
Isopropyl ether	<9.5		130	9.5	ug/Kg	☼	03/31/15 00:00	04/10/15 15:32	50
Isopropylbenzene	<16		130	16	ug/Kg	☼	03/31/15 00:00	04/10/15 15:32	50
Methyl tert-butyl ether	<28		130	28	ug/Kg	☼	03/31/15 00:00	04/10/15 15:32	50
Methylene Chloride	<44		320	44	ug/Kg	☼	03/31/15 00:00	04/10/15 15:32	50
Naphthalene	210		130	32	ug/Kg	☼	03/31/15 00:00	04/10/15 15:32	50
n-Butylbenzene	<8.3		64	8.3	ug/Kg	☼	03/31/15 00:00	04/10/15 15:32	50
N-Propylbenzene	<11		130	11	ug/Kg	☼	03/31/15 00:00	04/10/15 15:32	50
p-Isopropyltoluene	<12		130	12	ug/Kg	☼	03/31/15 00:00	04/10/15 15:32	50
sec-Butylbenzene	<9.9		64	9.9	ug/Kg	☼	03/31/15 00:00	04/10/15 15:32	50
Styrene	<6.4		64	6.4	ug/Kg	☼	03/31/15 00:00	04/10/15 15:32	50
tert-Butylbenzene	<8.8		64	8.8	ug/Kg	☼	03/31/15 00:00	04/10/15 15:32	50
Tetrachloroethene	<11		64	11	ug/Kg	☼	03/31/15 00:00	04/10/15 15:32	50
Toluene	40		16	7.4	ug/Kg	☼	03/31/15 00:00	04/10/15 15:32	50
trans-1,2-Dichloroethene	<16		64	16	ug/Kg	☼	03/31/15 00:00	04/10/15 15:32	50
trans-1,3-Dichloropropene	<13		64	13	ug/Kg	☼	03/31/15 00:00	04/10/15 15:32	50
Trichloroethene	<12		32	12	ug/Kg	☼	03/31/15 00:00	04/10/15 15:32	50
Trichlorofluoromethane	<27		130	27	ug/Kg	☼	03/31/15 00:00	04/10/15 15:32	50
Vinyl chloride	<6.7		16	6.7	ug/Kg	☼	03/31/15 00:00	04/10/15 15:32	50
Xylenes, Total	76		32	4.4	ug/Kg	☼	03/31/15 00:00	04/10/15 15:32	50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	108		75 - 125	03/31/15 00:00	04/10/15 15:32	50
4-Bromofluorobenzene (Surr)	105		75 - 120	03/31/15 00:00	04/10/15 15:32	50
Dibromofluoromethane	102		75 - 120	03/31/15 00:00	04/10/15 15:32	50
Toluene-d8 (Surr)	100		75 - 120	03/31/15 00:00	04/10/15 15:32	50

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	<430		1800	430	ug/Kg	☼	04/03/15 07:28	04/10/15 19:29	50
2-Methylnaphthalene	400	J	1800	330	ug/Kg	☼	04/03/15 07:28	04/10/15 19:29	50
Acenaphthene	1200	J	1800	320	ug/Kg	☼	04/03/15 07:28	04/10/15 19:29	50

TestAmerica Chicago

Client Sample Results

Client: TRC Environmental Corporation.
Project/Site: Former CMC Shops Wheelhouse 232269

TestAmerica Job ID: 500-94066-1

Client Sample ID: GP-13 (2-4)

Lab Sample ID: 500-94066-26

Date Collected: 03/31/15 00:00

Matrix: Solid

Date Received: 04/02/15 09:30

Percent Solids: 87.5

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthylene	<230		1800	230	ug/Kg	☼	04/03/15 07:28	04/10/15 19:29	50
Anthracene	6400		1800	300	ug/Kg	☼	04/03/15 07:28	04/10/15 19:29	50
Benzo[a]anthracene	12000		1800	240	ug/Kg	☼	04/03/15 07:28	04/10/15 19:29	50
Benzo[a]pyrene	9200		1800	340	ug/Kg	☼	04/03/15 07:28	04/10/15 19:29	50
Benzo[b]fluoranthene	11000		1800	380	ug/Kg	☼	04/03/15 07:28	04/10/15 19:29	50
Benzo[g,h,i]perylene	5000		1800	570	ug/Kg	☼	04/03/15 07:28	04/10/15 19:29	50
Benzo[k]fluoranthene	6600		1800	520	ug/Kg	☼	04/03/15 07:28	04/10/15 19:29	50
Chrysene	11000		1800	490	ug/Kg	☼	04/03/15 07:28	04/10/15 19:29	50
Dibenz(a,h)anthracene	1700	J	1800	340	ug/Kg	☼	04/03/15 07:28	04/10/15 19:29	50
Fluoranthene	25000		1800	330	ug/Kg	☼	04/03/15 07:28	04/10/15 19:29	50
Fluorene	2300		1800	250	ug/Kg	☼	04/03/15 07:28	04/10/15 19:29	50
Indeno[1,2,3-cd]pyrene	4800		1800	460	ug/Kg	☼	04/03/15 07:28	04/10/15 19:29	50
Naphthalene	330	J	1800	270	ug/Kg	☼	04/03/15 07:28	04/10/15 19:29	50
Phenanthrene	19000		1800	250	ug/Kg	☼	04/03/15 07:28	04/10/15 19:29	50
Pyrene	23000		1800	350	ug/Kg	☼	04/03/15 07:28	04/10/15 19:29	50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	59		25 - 119	04/03/15 07:28	04/10/15 19:29	50
Nitrobenzene-d5 (Surr)	33		25 - 115	04/03/15 07:28	04/10/15 19:29	50
Terphenyl-d14 (Surr)	97		36 - 134	04/03/15 07:28	04/10/15 19:29	50

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<6.6		19	6.6	ug/Kg	☼	04/03/15 07:22	04/04/15 13:56	1
PCB-1221	<8.3		19	8.3	ug/Kg	☼	04/03/15 07:22	04/04/15 13:56	1
PCB-1232	<8.2		19	8.2	ug/Kg	☼	04/03/15 07:22	04/04/15 13:56	1
PCB-1242	<6.2		19	6.2	ug/Kg	☼	04/03/15 07:22	04/04/15 13:56	1
PCB-1248	<7.4		19	7.4	ug/Kg	☼	04/03/15 07:22	04/04/15 13:56	1
PCB-1254	37		19	4.0	ug/Kg	☼	04/03/15 07:22	04/04/15 13:56	1
PCB-1260	28		19	9.2	ug/Kg	☼	04/03/15 07:22	04/04/15 13:56	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	75		50 - 116	04/03/15 07:22	04/04/15 13:56	1
DCB Decachlorobiphenyl	88		48 - 142	04/03/15 07:22	04/04/15 13:56	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	7.0		1.1	0.52	mg/Kg	☼	04/05/15 18:00	04/06/15 16:58	1
Barium	69		1.1	0.21	mg/Kg	☼	04/05/15 18:00	04/06/15 16:58	1
Cadmium	0.52		0.22	0.065	mg/Kg	☼	04/05/15 18:00	04/06/15 16:58	1
Chromium	22		1.1	0.19	mg/Kg	☼	04/05/15 18:00	04/06/15 16:58	1
Lead	160		0.56	0.28	mg/Kg	☼	04/05/15 18:00	04/06/15 16:58	1
Selenium	<0.55		1.1	0.55	mg/Kg	☼	04/05/15 18:00	04/06/15 16:58	1
Silver	0.17	J	0.56	0.13	mg/Kg	☼	04/05/15 18:00	04/06/15 16:58	1

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.35		0.019	0.0065	mg/Kg	☼	04/03/15 14:00	04/06/15 10:01	1

TestAmerica Chicago

Client Sample Results

Client: TRC Environmental Corporation.
Project/Site: Former CMC Shops Wheelhouse 232269

TestAmerica Job ID: 500-94066-1

Client Sample ID: GP-14 (2-4)

Lab Sample ID: 500-94066-27

Date Collected: 03/31/15 00:00

Matrix: Solid

Date Received: 04/02/15 09:30

Percent Solids: 84.1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<27		150	27	ug/Kg	☼	03/31/15 00:00	04/10/15 15:57	50
1,1,1-Trichloroethane	6300		77	16	ug/Kg	☼	03/31/15 00:00	04/10/15 15:57	50
1,1,2,2-Tetrachloroethane	<18		77	18	ug/Kg	☼	03/31/15 00:00	04/10/15 15:57	50
1,1,2-Trichloroethane	<22		77	22	ug/Kg	☼	03/31/15 00:00	04/10/15 15:57	50
1,1-Dichloroethane	150		77	14	ug/Kg	☼	03/31/15 00:00	04/10/15 15:57	50
1,1-Dichloroethene	260		77	24	ug/Kg	☼	03/31/15 00:00	04/10/15 15:57	50
1,1-Dichloropropene	<27		77	27	ug/Kg	☼	03/31/15 00:00	04/10/15 15:57	50
1,2,3-Trichlorobenzene	<27		150	27	ug/Kg	☼	03/31/15 00:00	04/10/15 15:57	50
1,2,3-Trichloropropane	<44		150	44	ug/Kg	☼	03/31/15 00:00	04/10/15 15:57	50
1,2,4-Trichlorobenzene	<29		150	29	ug/Kg	☼	03/31/15 00:00	04/10/15 15:57	50
1,2,4-Trimethylbenzene	<16		150	16	ug/Kg	☼	03/31/15 00:00	04/10/15 15:57	50
1,2-Dibromo-3-Chloropropane	<67		150	67	ug/Kg	☼	03/31/15 00:00	04/10/15 15:57	50
1,2-Dibromoethane	<24		150	24	ug/Kg	☼	03/31/15 00:00	04/10/15 15:57	50
1,2-Dichlorobenzene	<16		150	16	ug/Kg	☼	03/31/15 00:00	04/10/15 15:57	50
1,2-Dichloroethane	<22		77	22	ug/Kg	☼	03/31/15 00:00	04/10/15 15:57	50
1,2-Dichloropropane	<15		77	15	ug/Kg	☼	03/31/15 00:00	04/10/15 15:57	50
1,3,5-Trimethylbenzene	<16		150	16	ug/Kg	☼	03/31/15 00:00	04/10/15 15:57	50
1,3-Dichlorobenzene	<20		150	20	ug/Kg	☼	03/31/15 00:00	04/10/15 15:57	50
1,3-Dichloropropane	<10		77	10	ug/Kg	☼	03/31/15 00:00	04/10/15 15:57	50
1,4-Dichlorobenzene	<13		150	13	ug/Kg	☼	03/31/15 00:00	04/10/15 15:57	50
2,2-Dichloropropane	<24		77	24	ug/Kg	☼	03/31/15 00:00	04/10/15 15:57	50
2-Chlorotoluene	<16		77	16	ug/Kg	☼	03/31/15 00:00	04/10/15 15:57	50
4-Chlorotoluene	<15		77	15	ug/Kg	☼	03/31/15 00:00	04/10/15 15:57	50
Benzene	<5.7		19	5.7	ug/Kg	☼	03/31/15 00:00	04/10/15 15:57	50
Bromobenzene	<33		150	33	ug/Kg	☼	03/31/15 00:00	04/10/15 15:57	50
Bromochloromethane	<29		150	29	ug/Kg	☼	03/31/15 00:00	04/10/15 15:57	50
Bromodichloromethane	<26		150	26	ug/Kg	☼	03/31/15 00:00	04/10/15 15:57	50
Bromoform	<34		150	34	ug/Kg	☼	03/31/15 00:00	04/10/15 15:57	50
Bromomethane	<53		150	53	ug/Kg	☼	03/31/15 00:00	04/10/15 15:57	50
Carbon tetrachloride	<20		77	20	ug/Kg	☼	03/31/15 00:00	04/10/15 15:57	50
Chlorobenzene	<11		77	11	ug/Kg	☼	03/31/15 00:00	04/10/15 15:57	50
Chloroethane	<34		150	34	ug/Kg	☼	03/31/15 00:00	04/10/15 15:57	50
Chloroform	<16		77	16	ug/Kg	☼	03/31/15 00:00	04/10/15 15:57	50
Chloromethane	<36		150	36	ug/Kg	☼	03/31/15 00:00	04/10/15 15:57	50
cis-1,2-Dichloroethene	<9.5		77	9.5	ug/Kg	☼	03/31/15 00:00	04/10/15 15:57	50
cis-1,3-Dichloropropene	<14		77	14	ug/Kg	☼	03/31/15 00:00	04/10/15 15:57	50
Dibromochloromethane	<27		150	27	ug/Kg	☼	03/31/15 00:00	04/10/15 15:57	50
Dibromomethane	<37		150	37	ug/Kg	☼	03/31/15 00:00	04/10/15 15:57	50
Dichlorodifluoromethane	<40		150	40	ug/Kg	☼	03/31/15 00:00	04/10/15 15:57	50
Ethylbenzene	20		19	9.7	ug/Kg	☼	03/31/15 00:00	04/10/15 15:57	50
Hexachlorobutadiene	<27		150	27	ug/Kg	☼	03/31/15 00:00	04/10/15 15:57	50
Isopropyl ether	<11		150	11	ug/Kg	☼	03/31/15 00:00	04/10/15 15:57	50
Isopropylbenzene	<19		150	19	ug/Kg	☼	03/31/15 00:00	04/10/15 15:57	50
Methyl tert-butyl ether	<33		150	33	ug/Kg	☼	03/31/15 00:00	04/10/15 15:57	50
Methylene Chloride	<53		390	53	ug/Kg	☼	03/31/15 00:00	04/10/15 15:57	50
Naphthalene	<38		150	38	ug/Kg	☼	03/31/15 00:00	04/10/15 15:57	50
n-Butylbenzene	<10		77	10	ug/Kg	☼	03/31/15 00:00	04/10/15 15:57	50
N-Propylbenzene	<14		150	14	ug/Kg	☼	03/31/15 00:00	04/10/15 15:57	50
p-Isopropyltoluene	<14		150	14	ug/Kg	☼	03/31/15 00:00	04/10/15 15:57	50

TestAmerica Chicago

Client Sample Results

Client: TRC Environmental Corporation.
Project/Site: Former CMC Shops Wheelhouse 232269

TestAmerica Job ID: 500-94066-1

Client Sample ID: GP-14 (2-4)

Lab Sample ID: 500-94066-27

Date Collected: 03/31/15 00:00

Matrix: Solid

Date Received: 04/02/15 09:30

Percent Solids: 84.1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	<12		77	12	ug/Kg	☼	03/31/15 00:00	04/10/15 15:57	50
Styrene	<7.6		77	7.6	ug/Kg	☼	03/31/15 00:00	04/10/15 15:57	50
tert-Butylbenzene	<11		77	11	ug/Kg	☼	03/31/15 00:00	04/10/15 15:57	50
Tetrachloroethene	<13		77	13	ug/Kg	☼	03/31/15 00:00	04/10/15 15:57	50
Toluene	58		19	8.9	ug/Kg	☼	03/31/15 00:00	04/10/15 15:57	50
trans-1,2-Dichloroethene	<19		77	19	ug/Kg	☼	03/31/15 00:00	04/10/15 15:57	50
trans-1,3-Dichloropropene	<16		77	16	ug/Kg	☼	03/31/15 00:00	04/10/15 15:57	50
Trichloroethene	390		39	14	ug/Kg	☼	03/31/15 00:00	04/10/15 15:57	50
Trichlorofluoromethane	<32		150	32	ug/Kg	☼	03/31/15 00:00	04/10/15 15:57	50
Vinyl chloride	<8.0		19	8.0	ug/Kg	☼	03/31/15 00:00	04/10/15 15:57	50
Xylenes, Total	130		39	5.3	ug/Kg	☼	03/31/15 00:00	04/10/15 15:57	50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	109		75 - 125	03/31/15 00:00	04/10/15 15:57	50
4-Bromofluorobenzene (Surr)	104		75 - 120	03/31/15 00:00	04/10/15 15:57	50
Dibromofluoromethane	101		75 - 120	03/31/15 00:00	04/10/15 15:57	50
Toluene-d8 (Surr)	100		75 - 120	03/31/15 00:00	04/10/15 15:57	50

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	170		39	9.6	ug/Kg	☼	04/07/15 07:23	04/08/15 18:30	1
2-Methylnaphthalene	190		39	7.3	ug/Kg	☼	04/07/15 07:23	04/08/15 18:30	1
Acenaphthene	10	J	39	7.1	ug/Kg	☼	04/07/15 07:23	04/08/15 18:30	1
Acenaphthylene	11	J	39	5.2	ug/Kg	☼	04/07/15 07:23	04/08/15 18:30	1
Anthracene	43		39	6.6	ug/Kg	☼	04/07/15 07:23	04/08/15 18:30	1
Benzo[a]anthracene	180		39	5.3	ug/Kg	☼	04/07/15 07:23	04/08/15 18:30	1
Benzo[a]pyrene	190		39	7.6	ug/Kg	☼	04/07/15 07:23	04/08/15 18:30	1
Benzo[b]fluoranthene	260		39	8.5	ug/Kg	☼	04/07/15 07:23	04/08/15 18:30	1
Benzo[g,h,i]perylene	160		39	13	ug/Kg	☼	04/07/15 07:23	04/08/15 18:30	1
Benzo[k]fluoranthene	170		39	12	ug/Kg	☼	04/07/15 07:23	04/08/15 18:30	1
Chrysene	230		39	11	ug/Kg	☼	04/07/15 07:23	04/08/15 18:30	1
Dibenz[a,h]anthracene	<7.6		39	7.6	ug/Kg	☼	04/07/15 07:23	04/08/15 18:30	1
Fluoranthene	280		39	7.3	ug/Kg	☼	04/07/15 07:23	04/08/15 18:30	1
Fluorene	13	J	39	5.5	ug/Kg	☼	04/07/15 07:23	04/08/15 18:30	1
Indeno[1,2,3-cd]pyrene	100		39	10	ug/Kg	☼	04/07/15 07:23	04/08/15 18:30	1
Naphthalene	100		39	6.1	ug/Kg	☼	04/07/15 07:23	04/08/15 18:30	1
Phenanthrene	310		39	5.5	ug/Kg	☼	04/07/15 07:23	04/08/15 18:30	1
Pyrene	560		39	7.8	ug/Kg	☼	04/07/15 07:23	04/08/15 18:30	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	53		25 - 119	04/07/15 07:23	04/08/15 18:30	1
Nitrobenzene-d5 (Surr)	39		25 - 115	04/07/15 07:23	04/08/15 18:30	1
Terphenyl-d14 (Surr)	127		36 - 134	04/07/15 07:23	04/08/15 18:30	1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<6.9		19	6.9	ug/Kg	☼	04/03/15 07:22	04/04/15 14:09	1
PCB-1221	<8.6		19	8.6	ug/Kg	☼	04/03/15 07:22	04/04/15 14:09	1
PCB-1232	<8.5		19	8.5	ug/Kg	☼	04/03/15 07:22	04/04/15 14:09	1
PCB-1242	<6.4		19	6.4	ug/Kg	☼	04/03/15 07:22	04/04/15 14:09	1

TestAmerica Chicago

Client Sample Results

Client: TRC Environmental Corporation.
Project/Site: Former CMC Shops Wheelhouse 232269

TestAmerica Job ID: 500-94066-1

Client Sample ID: GP-14 (2-4)

Date Collected: 03/31/15 00:00

Date Received: 04/02/15 09:30

Lab Sample ID: 500-94066-27

Matrix: Solid

Percent Solids: 84.1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1248	<7.7		19	7.7	ug/Kg	☼	04/03/15 07:22	04/04/15 14:09	1
PCB-1254	<4.2		19	4.2	ug/Kg	☼	04/03/15 07:22	04/04/15 14:09	1
PCB-1260	<9.5		19	9.5	ug/Kg	☼	04/03/15 07:22	04/04/15 14:09	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	82		50 - 116				04/03/15 07:22	04/04/15 14:09	1
DCB Decachlorobiphenyl	74		48 - 142				04/03/15 07:22	04/04/15 14:09	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	10		1.2	0.55	mg/Kg	☼	04/05/15 18:00	04/06/15 17:03	1
Barium	49		1.2	0.22	mg/Kg	☼	04/05/15 18:00	04/06/15 17:03	1
Cadmium	0.53		0.24	0.068	mg/Kg	☼	04/05/15 18:00	04/06/15 17:03	1
Chromium	10		1.2	0.20	mg/Kg	☼	04/05/15 18:00	04/06/15 17:03	1
Lead	120		0.59	0.29	mg/Kg	☼	04/05/15 18:00	04/06/15 17:03	1
Selenium	1.5		1.2	0.58	mg/Kg	☼	04/05/15 18:00	04/06/15 17:03	1
Silver	<0.14		0.59	0.14	mg/Kg	☼	04/05/15 18:00	04/06/15 17:03	1

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.31		0.017	0.0061	mg/Kg	☼	04/03/15 14:00	04/06/15 10:03	1

Client Sample ID: GP-14 (8-10)

Date Collected: 03/31/15 00:00

Date Received: 04/02/15 09:30

Lab Sample ID: 500-94066-28

Matrix: Solid

Percent Solids: 79.9

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<26		150	26	ug/Kg	☼	03/31/15 00:00	04/10/15 16:22	50
1,1,1-Trichloroethane	130		75	15	ug/Kg	☼	03/31/15 00:00	04/10/15 16:22	50
1,1,2,2-Tetrachloroethane	<17		75	17	ug/Kg	☼	03/31/15 00:00	04/10/15 16:22	50
1,1,2-Trichloroethane	<21		75	21	ug/Kg	☼	03/31/15 00:00	04/10/15 16:22	50
1,1-Dichloroethane	<14		75	14	ug/Kg	☼	03/31/15 00:00	04/10/15 16:22	50
1,1-Dichloroethene	<23		75	23	ug/Kg	☼	03/31/15 00:00	04/10/15 16:22	50
1,1-Dichloropropene	<26		75	26	ug/Kg	☼	03/31/15 00:00	04/10/15 16:22	50
1,2,3-Trichlorobenzene	<26		150	26	ug/Kg	☼	03/31/15 00:00	04/10/15 16:22	50
1,2,3-Trichloropropane	<43		150	43	ug/Kg	☼	03/31/15 00:00	04/10/15 16:22	50
1,2,4-Trichlorobenzene	<28		150	28	ug/Kg	☼	03/31/15 00:00	04/10/15 16:22	50
1,2,4-Trimethylbenzene	<16		150	16	ug/Kg	☼	03/31/15 00:00	04/10/15 16:22	50
1,2-Dibromo-3-Chloropropane	<65		150	65	ug/Kg	☼	03/31/15 00:00	04/10/15 16:22	50
1,2-Dibromoethane	<23		150	23	ug/Kg	☼	03/31/15 00:00	04/10/15 16:22	50
1,2-Dichlorobenzene	<15		150	15	ug/Kg	☼	03/31/15 00:00	04/10/15 16:22	50
1,2-Dichloroethane	<21		75	21	ug/Kg	☼	03/31/15 00:00	04/10/15 16:22	50
1,2-Dichloropropane	<15		75	15	ug/Kg	☼	03/31/15 00:00	04/10/15 16:22	50
1,3,5-Trimethylbenzene	<15		150	15	ug/Kg	☼	03/31/15 00:00	04/10/15 16:22	50
1,3-Dichlorobenzene	<19		150	19	ug/Kg	☼	03/31/15 00:00	04/10/15 16:22	50
1,3-Dichloropropane	<10		75	10	ug/Kg	☼	03/31/15 00:00	04/10/15 16:22	50
1,4-Dichlorobenzene	<13		150	13	ug/Kg	☼	03/31/15 00:00	04/10/15 16:22	50
2,2-Dichloropropane	<24		75	24	ug/Kg	☼	03/31/15 00:00	04/10/15 16:22	50
2-Chlorotoluene	<15		75	15	ug/Kg	☼	03/31/15 00:00	04/10/15 16:22	50

TestAmerica Chicago

Client Sample Results

Client: TRC Environmental Corporation.
Project/Site: Former CMC Shops Wheelhouse 232269

TestAmerica Job ID: 500-94066-1

Client Sample ID: GP-14 (8-10)

Lab Sample ID: 500-94066-28

Date Collected: 03/31/15 00:00

Matrix: Solid

Date Received: 04/02/15 09:30

Percent Solids: 79.9

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Chlorotoluene	<15		75	15	ug/Kg	☼	03/31/15 00:00	04/10/15 16:22	50
Benzene	24		19	5.5	ug/Kg	☼	03/31/15 00:00	04/10/15 16:22	50
Bromobenzene	<32		150	32	ug/Kg	☼	03/31/15 00:00	04/10/15 16:22	50
Bromochloromethane	<28		150	28	ug/Kg	☼	03/31/15 00:00	04/10/15 16:22	50
Bromodichloromethane	<25		150	25	ug/Kg	☼	03/31/15 00:00	04/10/15 16:22	50
Bromoform	<33		150	33	ug/Kg	☼	03/31/15 00:00	04/10/15 16:22	50
Bromomethane	<51		150	51	ug/Kg	☼	03/31/15 00:00	04/10/15 16:22	50
Carbon tetrachloride	<19		75	19	ug/Kg	☼	03/31/15 00:00	04/10/15 16:22	50
Chlorobenzene	<11		75	11	ug/Kg	☼	03/31/15 00:00	04/10/15 16:22	50
Chloroethane	<32		150	32	ug/Kg	☼	03/31/15 00:00	04/10/15 16:22	50
Chloroform	<15		75	15	ug/Kg	☼	03/31/15 00:00	04/10/15 16:22	50
Chloromethane	<34		150	34	ug/Kg	☼	03/31/15 00:00	04/10/15 16:22	50
cis-1,2-Dichloroethene	<9.2		75	9.2	ug/Kg	☼	03/31/15 00:00	04/10/15 16:22	50
cis-1,3-Dichloropropene	<13		75	13	ug/Kg	☼	03/31/15 00:00	04/10/15 16:22	50
Dibromochloromethane	<26		150	26	ug/Kg	☼	03/31/15 00:00	04/10/15 16:22	50
Dibromomethane	<36		150	36	ug/Kg	☼	03/31/15 00:00	04/10/15 16:22	50
Dichlorodifluoromethane	<38		150	38	ug/Kg	☼	03/31/15 00:00	04/10/15 16:22	50
Ethylbenzene	<9.4		19	9.4	ug/Kg	☼	03/31/15 00:00	04/10/15 16:22	50
Hexachlorobutadiene	<26		150	26	ug/Kg	☼	03/31/15 00:00	04/10/15 16:22	50
Isopropyl ether	<11		150	11	ug/Kg	☼	03/31/15 00:00	04/10/15 16:22	50
Isopropylbenzene	<19		150	19	ug/Kg	☼	03/31/15 00:00	04/10/15 16:22	50
Methyl tert-butyl ether	<32		150	32	ug/Kg	☼	03/31/15 00:00	04/10/15 16:22	50
Methylene Chloride	<51		370	51	ug/Kg	☼	03/31/15 00:00	04/10/15 16:22	50
Naphthalene	<37		150	37	ug/Kg	☼	03/31/15 00:00	04/10/15 16:22	50
n-Butylbenzene	<9.6		75	9.6	ug/Kg	☼	03/31/15 00:00	04/10/15 16:22	50
N-Propylbenzene	<13		150	13	ug/Kg	☼	03/31/15 00:00	04/10/15 16:22	50
p-Isopropyltoluene	<14		150	14	ug/Kg	☼	03/31/15 00:00	04/10/15 16:22	50
sec-Butylbenzene	<11		75	11	ug/Kg	☼	03/31/15 00:00	04/10/15 16:22	50
Styrene	<7.4		75	7.4	ug/Kg	☼	03/31/15 00:00	04/10/15 16:22	50
tert-Butylbenzene	<10		75	10	ug/Kg	☼	03/31/15 00:00	04/10/15 16:22	50
Tetrachloroethene	<12		75	12	ug/Kg	☼	03/31/15 00:00	04/10/15 16:22	50
Toluene	35		19	8.6	ug/Kg	☼	03/31/15 00:00	04/10/15 16:22	50
trans-1,2-Dichloroethene	<19		75	19	ug/Kg	☼	03/31/15 00:00	04/10/15 16:22	50
trans-1,3-Dichloropropene	<16		75	16	ug/Kg	☼	03/31/15 00:00	04/10/15 16:22	50
Trichloroethene	<14		37	14	ug/Kg	☼	03/31/15 00:00	04/10/15 16:22	50
Trichlorofluoromethane	<31		150	31	ug/Kg	☼	03/31/15 00:00	04/10/15 16:22	50
Vinyl chloride	<7.8		19	7.8	ug/Kg	☼	03/31/15 00:00	04/10/15 16:22	50
Xylenes, Total	<5.1		37	5.1	ug/Kg	☼	03/31/15 00:00	04/10/15 16:22	50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	103		75 - 125	03/31/15 00:00	04/10/15 16:22	50
4-Bromofluorobenzene (Surr)	106		75 - 120	03/31/15 00:00	04/10/15 16:22	50
Dibromofluoromethane	99		75 - 120	03/31/15 00:00	04/10/15 16:22	50
Toluene-d8 (Surr)	99		75 - 120	03/31/15 00:00	04/10/15 16:22	50

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	17	J	40	9.9	ug/Kg	☼	04/07/15 07:23	04/08/15 18:51	1
2-Methylnaphthalene	20	J	40	7.4	ug/Kg	☼	04/07/15 07:23	04/08/15 18:51	1
Acenaphthene	<7.3		40	7.3	ug/Kg	☼	04/07/15 07:23	04/08/15 18:51	1

TestAmerica Chicago

Client Sample Results

Client: TRC Environmental Corporation.
Project/Site: Former CMC Shops Wheelhouse 232269

TestAmerica Job ID: 500-94066-1

Client Sample ID: GP-14 (8-10)

Lab Sample ID: 500-94066-28

Date Collected: 03/31/15 00:00

Matrix: Solid

Date Received: 04/02/15 09:30

Percent Solids: 79.9

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthylene	<5.3		40	5.3	ug/Kg	☼	04/07/15 07:23	04/08/15 18:51	1
Anthracene	11	J	40	6.7	ug/Kg	☼	04/07/15 07:23	04/08/15 18:51	1
Benzo[a]anthracene	42		40	5.4	ug/Kg	☼	04/07/15 07:23	04/08/15 18:51	1
Benzo[a]pyrene	67		40	7.8	ug/Kg	☼	04/07/15 07:23	04/08/15 18:51	1
Benzo[b]fluoranthene	70		40	8.7	ug/Kg	☼	04/07/15 07:23	04/08/15 18:51	1
Benzo[g,h,i]perylene	140		40	13	ug/Kg	☼	04/07/15 07:23	04/08/15 18:51	1
Benzo[k]fluoranthene	31	J	40	12	ug/Kg	☼	04/07/15 07:23	04/08/15 18:51	1
Chrysene	65		40	11	ug/Kg	☼	04/07/15 07:23	04/08/15 18:51	1
Dibenz(a,h)anthracene	<7.8		40	7.8	ug/Kg	☼	04/07/15 07:23	04/08/15 18:51	1
Fluoranthene	46		40	7.5	ug/Kg	☼	04/07/15 07:23	04/08/15 18:51	1
Fluorene	<5.7		40	5.7	ug/Kg	☼	04/07/15 07:23	04/08/15 18:51	1
Indeno[1,2,3-cd]pyrene	58		40	10	ug/Kg	☼	04/07/15 07:23	04/08/15 18:51	1
Naphthalene	11	J	40	6.2	ug/Kg	☼	04/07/15 07:23	04/08/15 18:51	1
Phenanthrene	52		40	5.6	ug/Kg	☼	04/07/15 07:23	04/08/15 18:51	1
Pyrene	200		40	8.0	ug/Kg	☼	04/07/15 07:23	04/08/15 18:51	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	35		25 - 119	04/07/15 07:23	04/08/15 18:51	1
Nitrobenzene-d5 (Surr)	25		25 - 115	04/07/15 07:23	04/08/15 18:51	1
Terphenyl-d14 (Surr)	86		36 - 134	04/07/15 07:23	04/08/15 18:51	1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<7.0		20	7.0	ug/Kg	☼	04/06/15 15:45	04/07/15 10:32	1
PCB-1221	<8.7		20	8.7	ug/Kg	☼	04/06/15 15:45	04/07/15 10:32	1
PCB-1232	<8.6		20	8.6	ug/Kg	☼	04/06/15 15:45	04/07/15 10:32	1
PCB-1242	<6.5		20	6.5	ug/Kg	☼	04/06/15 15:45	04/07/15 10:32	1
PCB-1248	<7.8		20	7.8	ug/Kg	☼	04/06/15 15:45	04/07/15 10:32	1
PCB-1254	<4.3		20	4.3	ug/Kg	☼	04/06/15 15:45	04/07/15 10:32	1
PCB-1260	<9.7		20	9.7	ug/Kg	☼	04/06/15 15:45	04/07/15 10:32	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	55		50 - 116	04/06/15 15:45	04/07/15 10:32	1
DCB Decachlorobiphenyl	72		48 - 142	04/06/15 15:45	04/07/15 10:32	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	3.8		1.2	0.55	mg/Kg	☼	04/05/15 18:00	04/06/15 17:08	1
Barium	59		1.2	0.22	mg/Kg	☼	04/05/15 18:00	04/06/15 17:08	1
Cadmium	0.21	J	0.24	0.070	mg/Kg	☼	04/05/15 18:00	04/06/15 17:08	1
Chromium	12		1.2	0.21	mg/Kg	☼	04/05/15 18:00	04/06/15 17:08	1
Lead	23		0.60	0.30	mg/Kg	☼	04/05/15 18:00	04/06/15 17:08	1
Selenium	<0.59		1.2	0.59	mg/Kg	☼	04/05/15 18:00	04/06/15 17:08	1
Silver	<0.14		0.60	0.14	mg/Kg	☼	04/05/15 18:00	04/06/15 17:08	1

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.026		0.020	0.0070	mg/Kg	☼	04/03/15 14:00	04/06/15 10:05	1

TestAmerica Chicago

Client Sample Results

Client: TRC Environmental Corporation.
Project/Site: Former CMC Shops Wheelhouse 232269

TestAmerica Job ID: 500-94066-1

Client Sample ID: GP-15 (4-6)

Lab Sample ID: 500-94066-29

Date Collected: 03/31/15 00:00

Matrix: Solid

Date Received: 04/02/15 09:30

Percent Solids: 83.2

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<24		140	24	ug/Kg	☼	03/31/15 00:00	04/10/15 16:47	50
1,1,1-Trichloroethane	<14		69	14	ug/Kg	☼	03/31/15 00:00	04/10/15 16:47	50
1,1,2,2-Tetrachloroethane	<16		69	16	ug/Kg	☼	03/31/15 00:00	04/10/15 16:47	50
1,1,2-Trichloroethane	<19		69	19	ug/Kg	☼	03/31/15 00:00	04/10/15 16:47	50
1,1-Dichloroethane	<13		69	13	ug/Kg	☼	03/31/15 00:00	04/10/15 16:47	50
1,1-Dichloroethene	<21		69	21	ug/Kg	☼	03/31/15 00:00	04/10/15 16:47	50
1,1-Dichloropropene	<24		69	24	ug/Kg	☼	03/31/15 00:00	04/10/15 16:47	50
1,2,3-Trichlorobenzene	<24		140	24	ug/Kg	☼	03/31/15 00:00	04/10/15 16:47	50
1,2,3-Trichloropropane	<40		140	40	ug/Kg	☼	03/31/15 00:00	04/10/15 16:47	50
1,2,4-Trichlorobenzene	<26		140	26	ug/Kg	☼	03/31/15 00:00	04/10/15 16:47	50
1,2,4-Trimethylbenzene	400		140	15	ug/Kg	☼	03/31/15 00:00	04/10/15 16:47	50
1,2-Dibromo-3-Chloropropane	<60		140	60	ug/Kg	☼	03/31/15 00:00	04/10/15 16:47	50
1,2-Dibromoethane	<22		140	22	ug/Kg	☼	03/31/15 00:00	04/10/15 16:47	50
1,2-Dichlorobenzene	<14		140	14	ug/Kg	☼	03/31/15 00:00	04/10/15 16:47	50
1,2-Dichloroethane	<20		69	20	ug/Kg	☼	03/31/15 00:00	04/10/15 16:47	50
1,2-Dichloropropane	<14		69	14	ug/Kg	☼	03/31/15 00:00	04/10/15 16:47	50
1,3,5-Trimethylbenzene	<14		140	14	ug/Kg	☼	03/31/15 00:00	04/10/15 16:47	50
1,3-Dichlorobenzene	<18		140	18	ug/Kg	☼	03/31/15 00:00	04/10/15 16:47	50
1,3-Dichloropropane	<9.3		69	9.3	ug/Kg	☼	03/31/15 00:00	04/10/15 16:47	50
1,4-Dichlorobenzene	<12		140	12	ug/Kg	☼	03/31/15 00:00	04/10/15 16:47	50
2,2-Dichloropropane	<22		69	22	ug/Kg	☼	03/31/15 00:00	04/10/15 16:47	50
2-Chlorotoluene	<14		69	14	ug/Kg	☼	03/31/15 00:00	04/10/15 16:47	50
4-Chlorotoluene	<14		69	14	ug/Kg	☼	03/31/15 00:00	04/10/15 16:47	50
Benzene	140		17	5.2	ug/Kg	☼	03/31/15 00:00	04/10/15 16:47	50
Bromobenzene	<30		140	30	ug/Kg	☼	03/31/15 00:00	04/10/15 16:47	50
Bromochloromethane	<26		140	26	ug/Kg	☼	03/31/15 00:00	04/10/15 16:47	50
Bromodichloromethane	<23		140	23	ug/Kg	☼	03/31/15 00:00	04/10/15 16:47	50
Bromoform	<31		140	31	ug/Kg	☼	03/31/15 00:00	04/10/15 16:47	50
Bromomethane	<47		140	47	ug/Kg	☼	03/31/15 00:00	04/10/15 16:47	50
Carbon tetrachloride	<18		69	18	ug/Kg	☼	03/31/15 00:00	04/10/15 16:47	50
Chlorobenzene	<9.9		69	9.9	ug/Kg	☼	03/31/15 00:00	04/10/15 16:47	50
Chloroethane	<30		140	30	ug/Kg	☼	03/31/15 00:00	04/10/15 16:47	50
Chloroform	<14		69	14	ug/Kg	☼	03/31/15 00:00	04/10/15 16:47	50
Chloromethane	<32		140	32	ug/Kg	☼	03/31/15 00:00	04/10/15 16:47	50
cis-1,2-Dichloroethene	<8.5		69	8.5	ug/Kg	☼	03/31/15 00:00	04/10/15 16:47	50
cis-1,3-Dichloropropene	<12		69	12	ug/Kg	☼	03/31/15 00:00	04/10/15 16:47	50
Dibromochloromethane	<24		140	24	ug/Kg	☼	03/31/15 00:00	04/10/15 16:47	50
Dibromomethane	<33		140	33	ug/Kg	☼	03/31/15 00:00	04/10/15 16:47	50
Dichlorodifluoromethane	<36		140	36	ug/Kg	☼	03/31/15 00:00	04/10/15 16:47	50
Ethylbenzene	150		17	8.7	ug/Kg	☼	03/31/15 00:00	04/10/15 16:47	50
Hexachlorobutadiene	<24		140	24	ug/Kg	☼	03/31/15 00:00	04/10/15 16:47	50
Isopropyl ether	<10		140	10	ug/Kg	☼	03/31/15 00:00	04/10/15 16:47	50
Isopropylbenzene	<17		140	17	ug/Kg	☼	03/31/15 00:00	04/10/15 16:47	50
Methyl tert-butyl ether	<30		140	30	ug/Kg	☼	03/31/15 00:00	04/10/15 16:47	50
Methylene Chloride	<47		350	47	ug/Kg	☼	03/31/15 00:00	04/10/15 16:47	50
Naphthalene	740		140	34	ug/Kg	☼	03/31/15 00:00	04/10/15 16:47	50
n-Butylbenzene	<9.0		69	9.0	ug/Kg	☼	03/31/15 00:00	04/10/15 16:47	50
N-Propylbenzene	140		140	12	ug/Kg	☼	03/31/15 00:00	04/10/15 16:47	50
p-Isopropyltoluene	<13		140	13	ug/Kg	☼	03/31/15 00:00	04/10/15 16:47	50

TestAmerica Chicago

Client Sample Results

Client: TRC Environmental Corporation.
Project/Site: Former CMC Shops Wheelhouse 232269

TestAmerica Job ID: 500-94066-1

Client Sample ID: GP-15 (4-6)

Lab Sample ID: 500-94066-29

Date Collected: 03/31/15 00:00

Matrix: Solid

Date Received: 04/02/15 09:30

Percent Solids: 83.2

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	<11		69	11	ug/Kg	☼	03/31/15 00:00	04/10/15 16:47	50
Styrene	<6.9		69	6.9	ug/Kg	☼	03/31/15 00:00	04/10/15 16:47	50
tert-Butylbenzene	<9.4		69	9.4	ug/Kg	☼	03/31/15 00:00	04/10/15 16:47	50
Tetrachloroethene	<12		69	12	ug/Kg	☼	03/31/15 00:00	04/10/15 16:47	50
Toluene	570		17	8.0	ug/Kg	☼	03/31/15 00:00	04/10/15 16:47	50
trans-1,2-Dichloroethene	<17		69	17	ug/Kg	☼	03/31/15 00:00	04/10/15 16:47	50
trans-1,3-Dichloropropene	<14		69	14	ug/Kg	☼	03/31/15 00:00	04/10/15 16:47	50
Trichloroethene	<13		35	13	ug/Kg	☼	03/31/15 00:00	04/10/15 16:47	50
Trichlorofluoromethane	<29		140	29	ug/Kg	☼	03/31/15 00:00	04/10/15 16:47	50
Vinyl chloride	<7.2		17	7.2	ug/Kg	☼	03/31/15 00:00	04/10/15 16:47	50
Xylenes, Total	990		35	4.7	ug/Kg	☼	03/31/15 00:00	04/10/15 16:47	50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	107		75 - 125	03/31/15 00:00	04/10/15 16:47	50
4-Bromofluorobenzene (Surr)	103		75 - 120	03/31/15 00:00	04/10/15 16:47	50
Dibromofluoromethane	104		75 - 120	03/31/15 00:00	04/10/15 16:47	50
Toluene-d8 (Surr)	101		75 - 120	03/31/15 00:00	04/10/15 16:47	50

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	2300		380	94	ug/Kg	☼	04/07/15 07:23	04/10/15 21:06	10
2-Methylnaphthalene	2300		380	71	ug/Kg	☼	04/07/15 07:23	04/10/15 21:06	10
Acenaphthene	<69		380	69	ug/Kg	☼	04/07/15 07:23	04/10/15 21:06	10
Acenaphthylene	<51		380	51	ug/Kg	☼	04/07/15 07:23	04/10/15 21:06	10
Anthracene	220 J		380	64	ug/Kg	☼	04/07/15 07:23	04/10/15 21:06	10
Benzo[a]anthracene	290 J		380	52	ug/Kg	☼	04/07/15 07:23	04/10/15 21:06	10
Benzo[a]pyrene	<74		380	74	ug/Kg	☼	04/07/15 07:23	04/10/15 21:06	10
Benzo[b]fluoranthene	<83		380	83	ug/Kg	☼	04/07/15 07:23	04/10/15 21:06	10
Benzo[g,h,i]perylene	<120		380	120	ug/Kg	☼	04/07/15 07:23	04/10/15 21:06	10
Benzo[k]fluoranthene	<110		380	110	ug/Kg	☼	04/07/15 07:23	04/10/15 21:06	10
Chrysene	320 J		380	100	ug/Kg	☼	04/07/15 07:23	04/10/15 21:06	10
Dibenz(a,h)anthracene	<74		380	74	ug/Kg	☼	04/07/15 07:23	04/10/15 21:06	10
Fluoranthene	290 J		380	71	ug/Kg	☼	04/07/15 07:23	04/10/15 21:06	10
Fluorene	<54		380	54	ug/Kg	☼	04/07/15 07:23	04/10/15 21:06	10
Indeno[1,2,3-cd]pyrene	<100		380	100	ug/Kg	☼	04/07/15 07:23	04/10/15 21:06	10
Naphthalene	1300		380	59	ug/Kg	☼	04/07/15 07:23	04/10/15 21:06	10
Phenanthrene	1600		380	54	ug/Kg	☼	04/07/15 07:23	04/10/15 21:06	10
Pyrene	440		380	76	ug/Kg	☼	04/07/15 07:23	04/10/15 21:06	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	63		25 - 119	04/07/15 07:23	04/10/15 21:06	10
Nitrobenzene-d5 (Surr)	40		25 - 115	04/07/15 07:23	04/10/15 21:06	10
Terphenyl-d14 (Surr)	84		36 - 134	04/07/15 07:23	04/10/15 21:06	10

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<7.0		20	7.0	ug/Kg	☼	04/06/15 15:45	04/07/15 10:46	1
PCB-1221	<8.7		20	8.7	ug/Kg	☼	04/06/15 15:45	04/07/15 10:46	1
PCB-1232	<8.6		20	8.6	ug/Kg	☼	04/06/15 15:45	04/07/15 10:46	1
PCB-1242	<6.5		20	6.5	ug/Kg	☼	04/06/15 15:45	04/07/15 10:46	1

TestAmerica Chicago

Client Sample Results

Client: TRC Environmental Corporation.
Project/Site: Former CMC Shops Wheelhouse 232269

TestAmerica Job ID: 500-94066-1

Client Sample ID: GP-15 (4-6)

Lab Sample ID: 500-94066-29

Date Collected: 03/31/15 00:00

Matrix: Solid

Date Received: 04/02/15 09:30

Percent Solids: 83.2

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1248	<7.8		20	7.8	ug/Kg	☼	04/06/15 15:45	04/07/15 10:46	1
PCB-1254	<4.3		20	4.3	ug/Kg	☼	04/06/15 15:45	04/07/15 10:46	1
PCB-1260	<9.7		20	9.7	ug/Kg	☼	04/06/15 15:45	04/07/15 10:46	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	26	X	50 - 116				04/06/15 15:45	04/07/15 10:46	1
DCB Decachlorobiphenyl	65		48 - 142				04/06/15 15:45	04/07/15 10:46	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	6.7		1.2	0.55	mg/Kg	☼	04/05/15 18:00	04/06/15 17:21	1
Barium	32		1.2	0.22	mg/Kg	☼	04/05/15 18:00	04/06/15 17:21	1
Cadmium	0.36		0.24	0.069	mg/Kg	☼	04/05/15 18:00	04/06/15 17:21	1
Chromium	5.5		1.2	0.20	mg/Kg	☼	04/05/15 18:00	04/06/15 17:21	1
Lead	27		0.60	0.30	mg/Kg	☼	04/05/15 18:00	04/06/15 17:21	1
Selenium	1.4		1.2	0.59	mg/Kg	☼	04/05/15 18:00	04/06/15 17:21	1
Silver	<0.14		0.60	0.14	mg/Kg	☼	04/05/15 18:00	04/06/15 17:21	1

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.11		0.017	0.0060	mg/Kg	☼	04/03/15 14:00	04/06/15 10:11	1

Client Sample ID: GP-15 (8-10)

Lab Sample ID: 500-94066-30

Date Collected: 03/31/15 00:00

Matrix: Solid

Date Received: 04/02/15 09:30

Percent Solids: 81.9

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<25		140	25	ug/Kg	☼	03/31/15 00:00	04/10/15 17:12	50
1,1,1-Trichloroethane	<14		72	14	ug/Kg	☼	03/31/15 00:00	04/10/15 17:12	50
1,1,2,2-Tetrachloroethane	<17		72	17	ug/Kg	☼	03/31/15 00:00	04/10/15 17:12	50
1,1,2-Trichloroethane	<20		72	20	ug/Kg	☼	03/31/15 00:00	04/10/15 17:12	50
1,1-Dichloroethane	<13		72	13	ug/Kg	☼	03/31/15 00:00	04/10/15 17:12	50
1,1-Dichloroethene	<22		72	22	ug/Kg	☼	03/31/15 00:00	04/10/15 17:12	50
1,1-Dichloropropene	<25		72	25	ug/Kg	☼	03/31/15 00:00	04/10/15 17:12	50
1,2,3-Trichlorobenzene	<25		140	25	ug/Kg	☼	03/31/15 00:00	04/10/15 17:12	50
1,2,3-Trichloropropane	<41		140	41	ug/Kg	☼	03/31/15 00:00	04/10/15 17:12	50
1,2,4-Trichlorobenzene	<27		140	27	ug/Kg	☼	03/31/15 00:00	04/10/15 17:12	50
1,2,4-Trimethylbenzene	<15		140	15	ug/Kg	☼	03/31/15 00:00	04/10/15 17:12	50
1,2-Dibromo-3-Chloropropane	<63		140	63	ug/Kg	☼	03/31/15 00:00	04/10/15 17:12	50
1,2-Dibromoethane	<23		140	23	ug/Kg	☼	03/31/15 00:00	04/10/15 17:12	50
1,2-Dichlorobenzene	<15		140	15	ug/Kg	☼	03/31/15 00:00	04/10/15 17:12	50
1,2-Dichloroethane	<20		72	20	ug/Kg	☼	03/31/15 00:00	04/10/15 17:12	50
1,2-Dichloropropane	<14		72	14	ug/Kg	☼	03/31/15 00:00	04/10/15 17:12	50
1,3,5-Trimethylbenzene	<15		140	15	ug/Kg	☼	03/31/15 00:00	04/10/15 17:12	50
1,3-Dichlorobenzene	<18		140	18	ug/Kg	☼	03/31/15 00:00	04/10/15 17:12	50
1,3-Dichloropropane	<9.6		72	9.6	ug/Kg	☼	03/31/15 00:00	04/10/15 17:12	50
1,4-Dichlorobenzene	<13		140	13	ug/Kg	☼	03/31/15 00:00	04/10/15 17:12	50
2,2-Dichloropropane	<23		72	23	ug/Kg	☼	03/31/15 00:00	04/10/15 17:12	50
2-Chlorotoluene	<15		72	15	ug/Kg	☼	03/31/15 00:00	04/10/15 17:12	50

TestAmerica Chicago

Client Sample Results

Client: TRC Environmental Corporation.
Project/Site: Former CMC Shops Wheelhouse 232269

TestAmerica Job ID: 500-94066-1

Client Sample ID: GP-15 (8-10)

Lab Sample ID: 500-94066-30

Date Collected: 03/31/15 00:00

Matrix: Solid

Date Received: 04/02/15 09:30

Percent Solids: 81.9

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Chlorotoluene	<14		72	14	ug/Kg	☼	03/31/15 00:00	04/10/15 17:12	50
Benzene	<5.3		18	5.3	ug/Kg	☼	03/31/15 00:00	04/10/15 17:12	50
Bromobenzene	<31		140	31	ug/Kg	☼	03/31/15 00:00	04/10/15 17:12	50
Bromochloromethane	<27		140	27	ug/Kg	☼	03/31/15 00:00	04/10/15 17:12	50
Bromodichloromethane	<24		140	24	ug/Kg	☼	03/31/15 00:00	04/10/15 17:12	50
Bromoform	<32		140	32	ug/Kg	☼	03/31/15 00:00	04/10/15 17:12	50
Bromomethane	<49		140	49	ug/Kg	☼	03/31/15 00:00	04/10/15 17:12	50
Carbon tetrachloride	<18		72	18	ug/Kg	☼	03/31/15 00:00	04/10/15 17:12	50
Chlorobenzene	<10		72	10	ug/Kg	☼	03/31/15 00:00	04/10/15 17:12	50
Chloroethane	<31		140	31	ug/Kg	☼	03/31/15 00:00	04/10/15 17:12	50
Chloroform	<15		72	15	ug/Kg	☼	03/31/15 00:00	04/10/15 17:12	50
Chloromethane	<33		140	33	ug/Kg	☼	03/31/15 00:00	04/10/15 17:12	50
cis-1,2-Dichloroethene	<8.8		72	8.8	ug/Kg	☼	03/31/15 00:00	04/10/15 17:12	50
cis-1,3-Dichloropropene	<13		72	13	ug/Kg	☼	03/31/15 00:00	04/10/15 17:12	50
Dibromochloromethane	<25		140	25	ug/Kg	☼	03/31/15 00:00	04/10/15 17:12	50
Dibromomethane	<34		140	34	ug/Kg	☼	03/31/15 00:00	04/10/15 17:12	50
Dichlorodifluoromethane	<37		140	37	ug/Kg	☼	03/31/15 00:00	04/10/15 17:12	50
Ethylbenzene	<9.1		18	9.1	ug/Kg	☼	03/31/15 00:00	04/10/15 17:12	50
Hexachlorobutadiene	<25		140	25	ug/Kg	☼	03/31/15 00:00	04/10/15 17:12	50
Isopropyl ether	<11		140	11	ug/Kg	☼	03/31/15 00:00	04/10/15 17:12	50
Isopropylbenzene	<18		140	18	ug/Kg	☼	03/31/15 00:00	04/10/15 17:12	50
Methyl tert-butyl ether	<31		140	31	ug/Kg	☼	03/31/15 00:00	04/10/15 17:12	50
Methylene Chloride	<49		360	49	ug/Kg	☼	03/31/15 00:00	04/10/15 17:12	50
Naphthalene	<36		140	36	ug/Kg	☼	03/31/15 00:00	04/10/15 17:12	50
n-Butylbenzene	<9.3		72	9.3	ug/Kg	☼	03/31/15 00:00	04/10/15 17:12	50
N-Propylbenzene	<13		140	13	ug/Kg	☼	03/31/15 00:00	04/10/15 17:12	50
p-Isopropyltoluene	<13		140	13	ug/Kg	☼	03/31/15 00:00	04/10/15 17:12	50
sec-Butylbenzene	<11		72	11	ug/Kg	☼	03/31/15 00:00	04/10/15 17:12	50
Styrene	<7.1		72	7.1	ug/Kg	☼	03/31/15 00:00	04/10/15 17:12	50
tert-Butylbenzene	<9.8		72	9.8	ug/Kg	☼	03/31/15 00:00	04/10/15 17:12	50
Tetrachloroethene	<12		72	12	ug/Kg	☼	03/31/15 00:00	04/10/15 17:12	50
Toluene	<8.3		18	8.3	ug/Kg	☼	03/31/15 00:00	04/10/15 17:12	50
trans-1,2-Dichloroethene	<18		72	18	ug/Kg	☼	03/31/15 00:00	04/10/15 17:12	50
trans-1,3-Dichloropropene	<15		72	15	ug/Kg	☼	03/31/15 00:00	04/10/15 17:12	50
Trichloroethene	<13		36	13	ug/Kg	☼	03/31/15 00:00	04/10/15 17:12	50
Trichlorofluoromethane	<30		140	30	ug/Kg	☼	03/31/15 00:00	04/10/15 17:12	50
Vinyl chloride	<7.5		18	7.5	ug/Kg	☼	03/31/15 00:00	04/10/15 17:12	50
Xylenes, Total	<4.9		36	4.9	ug/Kg	☼	03/31/15 00:00	04/10/15 17:12	50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	107		75 - 125	03/31/15 00:00	04/10/15 17:12	50
4-Bromofluorobenzene (Surr)	104		75 - 120	03/31/15 00:00	04/10/15 17:12	50
Dibromofluoromethane	103		75 - 120	03/31/15 00:00	04/10/15 17:12	50
Toluene-d8 (Surr)	99		75 - 120	03/31/15 00:00	04/10/15 17:12	50

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	<9.5		39	9.5	ug/Kg	☼	04/07/15 07:23	04/11/15 18:24	1
2-Methylnaphthalene	<7.1		39	7.1	ug/Kg	☼	04/07/15 07:23	04/11/15 18:24	1
Acenaphthene	<7.0		39	7.0	ug/Kg	☼	04/07/15 07:23	04/11/15 18:24	1

TestAmerica Chicago

Client Sample Results

Client: TRC Environmental Corporation.
Project/Site: Former CMC Shops Wheelhouse 232269

TestAmerica Job ID: 500-94066-1

Client Sample ID: GP-15 (8-10)

Lab Sample ID: 500-94066-30

Date Collected: 03/31/15 00:00

Matrix: Solid

Date Received: 04/02/15 09:30

Percent Solids: 81.9

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthylene	<5.1		39	5.1	ug/Kg	☼	04/07/15 07:23	04/11/15 18:24	1
Anthracene	<6.5		39	6.5	ug/Kg	☼	04/07/15 07:23	04/11/15 18:24	1
Benzo[a]anthracene	<5.2		39	5.2	ug/Kg	☼	04/07/15 07:23	04/11/15 18:24	1
Benzo[a]pyrene	<7.5		39	7.5	ug/Kg	☼	04/07/15 07:23	04/11/15 18:24	1
Benzo[b]fluoranthene	<8.4		39	8.4	ug/Kg	☼	04/07/15 07:23	04/11/15 18:24	1
Benzo[g,h,i]perylene	<13		39	13	ug/Kg	☼	04/07/15 07:23	04/11/15 18:24	1
Benzo[k]fluoranthene	<11		39	11	ug/Kg	☼	04/07/15 07:23	04/11/15 18:24	1
Chrysene	<11		39	11	ug/Kg	☼	04/07/15 07:23	04/11/15 18:24	1
Dibenz(a,h)anthracene	<7.5		39	7.5	ug/Kg	☼	04/07/15 07:23	04/11/15 18:24	1
Fluoranthene	8.7	J	39	7.2	ug/Kg	☼	04/07/15 07:23	04/11/15 18:24	1
Fluorene	<5.5		39	5.5	ug/Kg	☼	04/07/15 07:23	04/11/15 18:24	1
Indeno[1,2,3-cd]pyrene	<10		39	10	ug/Kg	☼	04/07/15 07:23	04/11/15 18:24	1
Naphthalene	<6.0		39	6.0	ug/Kg	☼	04/07/15 07:23	04/11/15 18:24	1
Phenanthrene	<5.4		39	5.4	ug/Kg	☼	04/07/15 07:23	04/11/15 18:24	1
Pyrene	8.1	J	39	7.7	ug/Kg	☼	04/07/15 07:23	04/11/15 18:24	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	54		25 - 119	04/07/15 07:23	04/11/15 18:24	1
Nitrobenzene-d5 (Surr)	46		25 - 115	04/07/15 07:23	04/11/15 18:24	1
Terphenyl-d14 (Surr)	78		36 - 134	04/07/15 07:23	04/11/15 18:24	1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<7.0		20	7.0	ug/Kg	☼	04/06/15 15:45	04/07/15 11:00	1
PCB-1221	<8.7		20	8.7	ug/Kg	☼	04/06/15 15:45	04/07/15 11:00	1
PCB-1232	<8.6		20	8.6	ug/Kg	☼	04/06/15 15:45	04/07/15 11:00	1
PCB-1242	<6.5		20	6.5	ug/Kg	☼	04/06/15 15:45	04/07/15 11:00	1
PCB-1248	<7.8		20	7.8	ug/Kg	☼	04/06/15 15:45	04/07/15 11:00	1
PCB-1254	<4.3		20	4.3	ug/Kg	☼	04/06/15 15:45	04/07/15 11:00	1
PCB-1260	<9.7		20	9.7	ug/Kg	☼	04/06/15 15:45	04/07/15 11:00	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	56		50 - 116	04/06/15 15:45	04/07/15 11:00	1
DCB Decachlorobiphenyl	74		48 - 142	04/06/15 15:45	04/07/15 11:00	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	2.8		1.2	0.55	mg/Kg	☼	04/05/15 18:00	04/06/15 17:25	1
Barium	39		1.2	0.22	mg/Kg	☼	04/05/15 18:00	04/06/15 17:25	1
Cadmium	0.14	J	0.24	0.069	mg/Kg	☼	04/05/15 18:00	04/06/15 17:25	1
Chromium	9.0		1.2	0.21	mg/Kg	☼	04/05/15 18:00	04/06/15 17:25	1
Lead	18		0.60	0.30	mg/Kg	☼	04/05/15 18:00	04/06/15 17:25	1
Selenium	<0.59		1.2	0.59	mg/Kg	☼	04/05/15 18:00	04/06/15 17:25	1
Silver	<0.14		0.60	0.14	mg/Kg	☼	04/05/15 18:00	04/06/15 17:25	1

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.017	J	0.018	0.0063	mg/Kg	☼	04/03/15 14:00	04/06/15 10:13	1

TestAmerica Chicago

Client Sample Results

Client: TRC Environmental Corporation.
Project/Site: Former CMC Shops Wheelhouse 232269

TestAmerica Job ID: 500-94066-1

Client Sample ID: GP-15 (14-16)

Lab Sample ID: 500-94066-31

Date Collected: 03/31/15 00:00

Matrix: Solid

Date Received: 04/02/15 09:30

Percent Solids: 79.0

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<27		150	27	ug/Kg	☼	03/31/15 00:00	04/10/15 17:37	50
1,1,1-Trichloroethane	<15		77	15	ug/Kg	☼	03/31/15 00:00	04/10/15 17:37	50
1,1,2,2-Tetrachloroethane	<18		77	18	ug/Kg	☼	03/31/15 00:00	04/10/15 17:37	50
1,1,2-Trichloroethane	<21		77	21	ug/Kg	☼	03/31/15 00:00	04/10/15 17:37	50
1,1-Dichloroethane	<14		77	14	ug/Kg	☼	03/31/15 00:00	04/10/15 17:37	50
1,1-Dichloroethene	<24		77	24	ug/Kg	☼	03/31/15 00:00	04/10/15 17:37	50
1,1-Dichloropropene	<26		77	26	ug/Kg	☼	03/31/15 00:00	04/10/15 17:37	50
1,2,3-Trichlorobenzene	<27		150	27	ug/Kg	☼	03/31/15 00:00	04/10/15 17:37	50
1,2,3-Trichloropropane	<44		150	44	ug/Kg	☼	03/31/15 00:00	04/10/15 17:37	50
1,2,4-Trichlorobenzene	<29		150	29	ug/Kg	☼	03/31/15 00:00	04/10/15 17:37	50
1,2,4-Trimethylbenzene	<16		150	16	ug/Kg	☼	03/31/15 00:00	04/10/15 17:37	50
1,2-Dibromo-3-Chloropropane	<67		150	67	ug/Kg	☼	03/31/15 00:00	04/10/15 17:37	50
1,2-Dibromoethane	<24		150	24	ug/Kg	☼	03/31/15 00:00	04/10/15 17:37	50
1,2-Dichlorobenzene	<16		150	16	ug/Kg	☼	03/31/15 00:00	04/10/15 17:37	50
1,2-Dichloroethane	<22		77	22	ug/Kg	☼	03/31/15 00:00	04/10/15 17:37	50
1,2-Dichloropropane	<15		77	15	ug/Kg	☼	03/31/15 00:00	04/10/15 17:37	50
1,3,5-Trimethylbenzene	<16		150	16	ug/Kg	☼	03/31/15 00:00	04/10/15 17:37	50
1,3-Dichlorobenzene	<20		150	20	ug/Kg	☼	03/31/15 00:00	04/10/15 17:37	50
1,3-Dichloropropane	<10		77	10	ug/Kg	☼	03/31/15 00:00	04/10/15 17:37	50
1,4-Dichlorobenzene	<13		150	13	ug/Kg	☼	03/31/15 00:00	04/10/15 17:37	50
2,2-Dichloropropane	<24		77	24	ug/Kg	☼	03/31/15 00:00	04/10/15 17:37	50
2-Chlorotoluene	<16		77	16	ug/Kg	☼	03/31/15 00:00	04/10/15 17:37	50
4-Chlorotoluene	<15		77	15	ug/Kg	☼	03/31/15 00:00	04/10/15 17:37	50
Benzene	<5.7		19	5.7	ug/Kg	☼	03/31/15 00:00	04/10/15 17:37	50
Bromobenzene	<33		150	33	ug/Kg	☼	03/31/15 00:00	04/10/15 17:37	50
Bromochloromethane	<29		150	29	ug/Kg	☼	03/31/15 00:00	04/10/15 17:37	50
Bromodichloromethane	<26		150	26	ug/Kg	☼	03/31/15 00:00	04/10/15 17:37	50
Bromoform	<34		150	34	ug/Kg	☼	03/31/15 00:00	04/10/15 17:37	50
Bromomethane	<52		150	52	ug/Kg	☼	03/31/15 00:00	04/10/15 17:37	50
Carbon tetrachloride	<20		77	20	ug/Kg	☼	03/31/15 00:00	04/10/15 17:37	50
Chlorobenzene	<11		77	11	ug/Kg	☼	03/31/15 00:00	04/10/15 17:37	50
Chloroethane	<33		150	33	ug/Kg	☼	03/31/15 00:00	04/10/15 17:37	50
Chloroform	<16		77	16	ug/Kg	☼	03/31/15 00:00	04/10/15 17:37	50
Chloromethane	<35		150	35	ug/Kg	☼	03/31/15 00:00	04/10/15 17:37	50
cis-1,2-Dichloroethene	<9.4		77	9.4	ug/Kg	☼	03/31/15 00:00	04/10/15 17:37	50
cis-1,3-Dichloropropene	<14		77	14	ug/Kg	☼	03/31/15 00:00	04/10/15 17:37	50
Dibromochloromethane	<27		150	27	ug/Kg	☼	03/31/15 00:00	04/10/15 17:37	50
Dibromomethane	<37		150	37	ug/Kg	☼	03/31/15 00:00	04/10/15 17:37	50
Dichlorodifluoromethane	<39		150	39	ug/Kg	☼	03/31/15 00:00	04/10/15 17:37	50
Ethylbenzene	<9.7		19	9.7	ug/Kg	☼	03/31/15 00:00	04/10/15 17:37	50
Hexachlorobutadiene	<27		150	27	ug/Kg	☼	03/31/15 00:00	04/10/15 17:37	50
Isopropyl ether	<11		150	11	ug/Kg	☼	03/31/15 00:00	04/10/15 17:37	50
Isopropylbenzene	<19		150	19	ug/Kg	☼	03/31/15 00:00	04/10/15 17:37	50
Methyl tert-butyl ether	<33		150	33	ug/Kg	☼	03/31/15 00:00	04/10/15 17:37	50
Methylene Chloride	<52		380	52	ug/Kg	☼	03/31/15 00:00	04/10/15 17:37	50
Naphthalene	<38		150	38	ug/Kg	☼	03/31/15 00:00	04/10/15 17:37	50
n-Butylbenzene	<9.9		77	9.9	ug/Kg	☼	03/31/15 00:00	04/10/15 17:37	50
N-Propylbenzene	<13		150	13	ug/Kg	☼	03/31/15 00:00	04/10/15 17:37	50
p-Isopropyltoluene	<14		150	14	ug/Kg	☼	03/31/15 00:00	04/10/15 17:37	50

TestAmerica Chicago

Client Sample Results

Client: TRC Environmental Corporation.
Project/Site: Former CMC Shops Wheelhouse 232269

TestAmerica Job ID: 500-94066-1

Client Sample ID: GP-15 (14-16)

Lab Sample ID: 500-94066-31

Date Collected: 03/31/15 00:00

Matrix: Solid

Date Received: 04/02/15 09:30

Percent Solids: 79.0

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	<12		77	12	ug/Kg	☼	03/31/15 00:00	04/10/15 17:37	50
Styrene	<7.6		77	7.6	ug/Kg	☼	03/31/15 00:00	04/10/15 17:37	50
tert-Butylbenzene	<10		77	10	ug/Kg	☼	03/31/15 00:00	04/10/15 17:37	50
Tetrachloroethene	<13		77	13	ug/Kg	☼	03/31/15 00:00	04/10/15 17:37	50
Toluene	<8.8		19	8.8	ug/Kg	☼	03/31/15 00:00	04/10/15 17:37	50
trans-1,2-Dichloroethene	<19		77	19	ug/Kg	☼	03/31/15 00:00	04/10/15 17:37	50
trans-1,3-Dichloropropene	<16		77	16	ug/Kg	☼	03/31/15 00:00	04/10/15 17:37	50
Trichloroethene	<14		38	14	ug/Kg	☼	03/31/15 00:00	04/10/15 17:37	50
Trichlorofluoromethane	<32		150	32	ug/Kg	☼	03/31/15 00:00	04/10/15 17:37	50
Vinyl chloride	<8.0		19	8.0	ug/Kg	☼	03/31/15 00:00	04/10/15 17:37	50
Xylenes, Total	<5.3		38	5.3	ug/Kg	☼	03/31/15 00:00	04/10/15 17:37	50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	104		75 - 125	03/31/15 00:00	04/10/15 17:37	50
4-Bromofluorobenzene (Surr)	108		75 - 120	03/31/15 00:00	04/10/15 17:37	50
Dibromofluoromethane	102		75 - 120	03/31/15 00:00	04/10/15 17:37	50
Toluene-d8 (Surr)	97		75 - 120	03/31/15 00:00	04/10/15 17:37	50

Client Sample ID: GP-1

Lab Sample ID: 500-94066-32

Date Collected: 04/01/15 00:00

Matrix: Water

Date Received: 04/02/15 09:30

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.25		1.0	0.25	ug/L			04/10/15 11:19	1
1,1,1-Trichloroethane	<0.20		1.0	0.20	ug/L			04/10/15 11:19	1
1,1,2,2-Tetrachloroethane	<0.23		1.0	0.23	ug/L			04/10/15 11:19	1
1,1,2-Trichloroethane	<0.28		1.0	0.28	ug/L			04/10/15 11:19	1
1,1-Dichloroethane	<0.19		1.0	0.19	ug/L			04/10/15 11:19	1
1,1-Dichloroethene	<0.31		1.0	0.31	ug/L			04/10/15 11:19	1
1,1-Dichloropropene	<0.34		1.0	0.34	ug/L			04/10/15 11:19	1
1,2,3-Trichlorobenzene	<0.24		1.0	0.24	ug/L			04/10/15 11:19	1
1,2,3-Trichloropropane	<0.45		1.0	0.45	ug/L			04/10/15 11:19	1
1,2,4-Trichlorobenzene	<0.31		1.0	0.31	ug/L			04/10/15 11:19	1
1,2,4-Trimethylbenzene	90		1.0	0.14	ug/L			04/10/15 11:19	1
1,2-Dibromo-3-Chloropropane	<0.87		2.0	0.87	ug/L			04/10/15 11:19	1
1,2-Dibromoethane	<0.36		1.0	0.36	ug/L			04/10/15 11:19	1
1,2-Dichlorobenzene	<0.27		1.0	0.27	ug/L			04/10/15 11:19	1
1,2-Dichloroethane	<0.28		1.0	0.28	ug/L			04/10/15 11:19	1
1,2-Dichloropropane	<0.20		1.0	0.20	ug/L			04/10/15 11:19	1
1,3,5-Trimethylbenzene	23		1.0	0.18	ug/L			04/10/15 11:19	1
1,3-Dichlorobenzene	<0.15		1.0	0.15	ug/L			04/10/15 11:19	1
1,3-Dichloropropane	<0.13		1.0	0.13	ug/L			04/10/15 11:19	1
1,4-Dichlorobenzene	<0.15		1.0	0.15	ug/L			04/10/15 11:19	1
2,2-Dichloropropane	<0.32		1.0	0.32	ug/L			04/10/15 11:19	1
2-Chlorotoluene	<0.21		1.0	0.21	ug/L			04/10/15 11:19	1
4-Chlorotoluene	<0.20		1.0	0.20	ug/L			04/10/15 11:19	1
Benzene	<0.074		0.50	0.074	ug/L			04/10/15 11:19	1
Bromobenzene	<0.25		1.0	0.25	ug/L			04/10/15 11:19	1
Bromochloromethane	<0.40		1.0	0.40	ug/L			04/10/15 11:19	1

TestAmerica Chicago

Client Sample Results

Client: TRC Environmental Corporation.
Project/Site: Former CMC Shops Wheelhouse 232269

TestAmerica Job ID: 500-94066-1

Client Sample ID: GP-1

Lab Sample ID: 500-94066-32

Date Collected: 04/01/15 00:00

Matrix: Water

Date Received: 04/02/15 09:30

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromodichloromethane	<0.17		1.0	0.17	ug/L			04/10/15 11:19	1
Bromoform	<0.28		1.0	0.28	ug/L			04/10/15 11:19	1
Bromomethane	<0.31		1.0	0.31	ug/L			04/10/15 11:19	1
Carbon tetrachloride	<0.26		1.0	0.26	ug/L			04/10/15 11:19	1
Chlorobenzene	<0.14		1.0	0.14	ug/L			04/10/15 11:19	1
Chloroethane	<0.34		1.0	0.34	ug/L			04/10/15 11:19	1
Chloroform	<0.20		1.0	0.20	ug/L			04/10/15 11:19	1
Chloromethane	<0.18		1.0	0.18	ug/L			04/10/15 11:19	1
cis-1,2-Dichloroethene	<0.12		1.0	0.12	ug/L			04/10/15 11:19	1
cis-1,3-Dichloropropene	<0.18		1.0	0.18	ug/L			04/10/15 11:19	1
Dibromochloromethane	<0.32		1.0	0.32	ug/L			04/10/15 11:19	1
Dibromomethane	<0.33		1.0	0.33	ug/L			04/10/15 11:19	1
Dichlorodifluoromethane	<0.20		1.0	0.20	ug/L			04/10/15 11:19	1
Ethylbenzene	0.38	J	0.50	0.13	ug/L			04/10/15 11:19	1
Hexachlorobutadiene	<0.26		1.0	0.26	ug/L			04/10/15 11:19	1
Isopropyl ether	<0.15		1.0	0.15	ug/L			04/10/15 11:19	1
Isopropylbenzene	5.4		1.0	0.14	ug/L			04/10/15 11:19	1
Methyl tert-butyl ether	<0.24		1.0	0.24	ug/L			04/10/15 11:19	1
Methylene Chloride	<0.68		5.0	0.68	ug/L			04/10/15 11:19	1
Naphthalene	2.2		1.0	0.16	ug/L			04/10/15 11:19	1
n-Butylbenzene	5.1		1.0	0.13	ug/L			04/10/15 11:19	1
N-Propylbenzene	8.9		1.0	0.13	ug/L			04/10/15 11:19	1
p-Isopropyltoluene	<0.17		1.0	0.17	ug/L			04/10/15 11:19	1
sec-Butylbenzene	4.3		1.0	0.15	ug/L			04/10/15 11:19	1
Styrene	<0.10		1.0	0.10	ug/L			04/10/15 11:19	1
tert-Butylbenzene	<0.14		1.0	0.14	ug/L			04/10/15 11:19	1
Tetrachloroethene	<0.17		1.0	0.17	ug/L			04/10/15 11:19	1
Toluene	<0.11		0.50	0.11	ug/L			04/10/15 11:19	1
trans-1,2-Dichloroethene	<0.25		1.0	0.25	ug/L			04/10/15 11:19	1
trans-1,3-Dichloropropene	<0.21		1.0	0.21	ug/L			04/10/15 11:19	1
Trichloroethene	<0.19		0.50	0.19	ug/L			04/10/15 11:19	1
Trichlorofluoromethane	<0.19		1.0	0.19	ug/L			04/10/15 11:19	1
Vinyl chloride	<0.10		0.50	0.10	ug/L			04/10/15 11:19	1
Xylenes, Total	14		1.0	0.068	ug/L			04/10/15 11:19	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	103		75 - 125		04/10/15 11:19	1
4-Bromofluorobenzene (Surr)	100		75 - 120		04/10/15 11:19	1
Dibromofluoromethane	102		75 - 120		04/10/15 11:19	1
Toluene-d8 (Surr)	102		75 - 120		04/10/15 11:19	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	2.2		0.83	0.25	ug/L		04/06/15 08:41	04/06/15 17:06	1
2-Methylnaphthalene	2.1		0.42	0.054	ug/L		04/06/15 08:41	04/06/15 17:06	1
Acenaphthene	1.5		0.83	0.26	ug/L		04/06/15 08:41	04/06/15 17:06	1
Acenaphthylene	<0.22		0.83	0.22	ug/L		04/06/15 08:41	04/06/15 17:06	1
Anthracene	<0.28		0.83	0.28	ug/L		04/06/15 08:41	04/06/15 17:06	1
Benzo[a]anthracene	0.42		0.17	0.047	ug/L		04/06/15 08:41	04/06/15 17:06	1
Benzo[a]pyrene	0.39		0.17	0.082	ug/L		04/06/15 08:41	04/06/15 17:06	1

TestAmerica Chicago

Client Sample Results

Client: TRC Environmental Corporation.
Project/Site: Former CMC Shops Wheelhouse 232269

TestAmerica Job ID: 500-94066-1

Client Sample ID: GP-1

Lab Sample ID: 500-94066-32

Date Collected: 04/01/15 00:00

Matrix: Water

Date Received: 04/02/15 09:30

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[b]fluoranthene	0.71		0.17	0.067	ug/L		04/06/15 08:41	04/06/15 17:06	1
Benzo[g,h,i]perylene	<0.31		0.83	0.31	ug/L		04/06/15 08:41	04/06/15 17:06	1
Benzo[k]fluoranthene	0.12	J	0.17	0.053	ug/L		04/06/15 08:41	04/06/15 17:06	1
Chrysene	0.40	J	0.42	0.057	ug/L		04/06/15 08:41	04/06/15 17:06	1
Dibenz[a,h]anthracene	<0.042		0.25	0.042	ug/L		04/06/15 08:41	04/06/15 17:06	1
Fluoranthene	1.1		0.83	0.38	ug/L		04/06/15 08:41	04/06/15 17:06	1
Fluorene	0.51	J	0.83	0.20	ug/L		04/06/15 08:41	04/06/15 17:06	1
Indeno[1,2,3-cd]pyrene	<0.062		0.17	0.062	ug/L		04/06/15 08:41	04/06/15 17:06	1
Naphthalene	<0.26		0.83	0.26	ug/L		04/06/15 08:41	04/06/15 17:06	1
Phenanthrene	0.88		0.83	0.25	ug/L		04/06/15 08:41	04/06/15 17:06	1
Pyrene	0.92		0.83	0.36	ug/L		04/06/15 08:41	04/06/15 17:06	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	52		41 - 132				04/06/15 08:41	04/06/15 17:06	1
Nitrobenzene-d5 (Surr)	67		47 - 134				04/06/15 08:41	04/06/15 17:06	1
Terphenyl-d14 (Surr)	80		59 - 150				04/06/15 08:41	04/06/15 17:06	1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.072		0.43	0.072	ug/L		04/03/15 09:11	04/04/15 09:17	1
PCB-1221	<0.21		0.43	0.21	ug/L		04/03/15 09:11	04/04/15 09:17	1
PCB-1232	<0.21		0.43	0.21	ug/L		04/03/15 09:11	04/04/15 09:17	1
PCB-1242	<0.21		0.43	0.21	ug/L		04/03/15 09:11	04/04/15 09:17	1
PCB-1248	<0.21		0.43	0.21	ug/L		04/03/15 09:11	04/04/15 09:17	1
PCB-1254	4.8		0.43	0.21	ug/L		04/03/15 09:11	04/04/15 09:17	1
PCB-1260	<0.075		0.43	0.075	ug/L		04/03/15 09:11	04/04/15 09:17	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	804	X	50 - 120				04/03/15 09:11	04/04/15 09:17	1
DCB Decachlorobiphenyl	37		29 - 126				04/03/15 09:11	04/04/15 09:17	1

Method: 6020 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	3.4		1.0	0.44	ug/L		04/03/15 09:55	04/03/15 15:39	1
Barium	120		2.5	0.84	ug/L		04/03/15 09:55	04/03/15 15:39	1
Cadmium	<0.19		0.50	0.19	ug/L		04/03/15 09:55	04/03/15 15:39	1
Chromium	<0.61		5.0	0.61	ug/L		04/03/15 09:55	04/03/15 15:39	1
Lead	0.14	J	0.50	0.14	ug/L		04/03/15 09:55	04/03/15 15:39	1
Selenium	<0.83		2.5	0.83	ug/L		04/03/15 09:55	04/03/15 15:39	1
Silver	<0.080		0.50	0.080	ug/L		04/03/15 09:55	04/03/15 15:39	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.061		0.20	0.061	ug/L		04/03/15 11:30	04/06/15 09:25	1

TestAmerica Chicago

Client Sample Results

Client: TRC Environmental Corporation.
Project/Site: Former CMC Shops Wheelhouse 232269

TestAmerica Job ID: 500-94066-1

Client Sample ID: GP-14

Lab Sample ID: 500-94066-33

Date Collected: 04/01/15 00:00

Matrix: Water

Date Received: 04/02/15 09:30

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.25		1.0	0.25	ug/L			04/10/15 11:45	1
1,1,1-Trichloroethane	<0.20		1.0	0.20	ug/L			04/10/15 11:45	1
1,1,2,2-Tetrachloroethane	<0.23		1.0	0.23	ug/L			04/10/15 11:45	1
1,1,2-Trichloroethane	<0.28		1.0	0.28	ug/L			04/10/15 11:45	1
1,1-Dichloroethane	<0.19		1.0	0.19	ug/L			04/10/15 11:45	1
1,1-Dichloroethene	<0.31		1.0	0.31	ug/L			04/10/15 11:45	1
1,1-Dichloropropene	<0.34		1.0	0.34	ug/L			04/10/15 11:45	1
1,2,3-Trichlorobenzene	<0.24		1.0	0.24	ug/L			04/10/15 11:45	1
1,2,3-Trichloropropane	<0.45		1.0	0.45	ug/L			04/10/15 11:45	1
1,2,4-Trichlorobenzene	<0.31		1.0	0.31	ug/L			04/10/15 11:45	1
1,2,4-Trimethylbenzene	<0.14		1.0	0.14	ug/L			04/10/15 11:45	1
1,2-Dibromo-3-Chloropropane	<0.87		2.0	0.87	ug/L			04/10/15 11:45	1
1,2-Dibromoethane	<0.36		1.0	0.36	ug/L			04/10/15 11:45	1
1,2-Dichlorobenzene	<0.27		1.0	0.27	ug/L			04/10/15 11:45	1
1,2-Dichloroethane	<0.28		1.0	0.28	ug/L			04/10/15 11:45	1
1,2-Dichloropropane	<0.20		1.0	0.20	ug/L			04/10/15 11:45	1
1,3,5-Trimethylbenzene	<0.18		1.0	0.18	ug/L			04/10/15 11:45	1
1,3-Dichlorobenzene	<0.15		1.0	0.15	ug/L			04/10/15 11:45	1
1,3-Dichloropropane	<0.13		1.0	0.13	ug/L			04/10/15 11:45	1
1,4-Dichlorobenzene	<0.15		1.0	0.15	ug/L			04/10/15 11:45	1
2,2-Dichloropropane	<0.32		1.0	0.32	ug/L			04/10/15 11:45	1
2-Chlorotoluene	<0.21		1.0	0.21	ug/L			04/10/15 11:45	1
4-Chlorotoluene	<0.20		1.0	0.20	ug/L			04/10/15 11:45	1
Benzene	<0.074		0.50	0.074	ug/L			04/10/15 11:45	1
Bromobenzene	<0.25		1.0	0.25	ug/L			04/10/15 11:45	1
Bromochloromethane	<0.40		1.0	0.40	ug/L			04/10/15 11:45	1
Bromodichloromethane	<0.17		1.0	0.17	ug/L			04/10/15 11:45	1
Bromoform	<0.28		1.0	0.28	ug/L			04/10/15 11:45	1
Bromomethane	<0.31		1.0	0.31	ug/L			04/10/15 11:45	1
Carbon tetrachloride	<0.26		1.0	0.26	ug/L			04/10/15 11:45	1
Chlorobenzene	<0.14		1.0	0.14	ug/L			04/10/15 11:45	1
Chloroethane	<0.34		1.0	0.34	ug/L			04/10/15 11:45	1
Chloroform	<0.20		1.0	0.20	ug/L			04/10/15 11:45	1
Chloromethane	<0.18		1.0	0.18	ug/L			04/10/15 11:45	1
cis-1,2-Dichloroethene	<0.12		1.0	0.12	ug/L			04/10/15 11:45	1
cis-1,3-Dichloropropene	<0.18		1.0	0.18	ug/L			04/10/15 11:45	1
Dibromochloromethane	<0.32		1.0	0.32	ug/L			04/10/15 11:45	1
Dibromomethane	<0.33		1.0	0.33	ug/L			04/10/15 11:45	1
Dichlorodifluoromethane	<0.20		1.0	0.20	ug/L			04/10/15 11:45	1
Ethylbenzene	<0.13		0.50	0.13	ug/L			04/10/15 11:45	1
Hexachlorobutadiene	<0.26		1.0	0.26	ug/L			04/10/15 11:45	1
Isopropyl ether	<0.15		1.0	0.15	ug/L			04/10/15 11:45	1
Isopropylbenzene	<0.14		1.0	0.14	ug/L			04/10/15 11:45	1
Methyl tert-butyl ether	<0.24		1.0	0.24	ug/L			04/10/15 11:45	1
Methylene Chloride	<0.68		5.0	0.68	ug/L			04/10/15 11:45	1
Naphthalene	<0.16		1.0	0.16	ug/L			04/10/15 11:45	1
n-Butylbenzene	<0.13		1.0	0.13	ug/L			04/10/15 11:45	1
N-Propylbenzene	<0.13		1.0	0.13	ug/L			04/10/15 11:45	1
p-Isopropyltoluene	<0.17		1.0	0.17	ug/L			04/10/15 11:45	1

TestAmerica Chicago

Client Sample Results

Client: TRC Environmental Corporation.
Project/Site: Former CMC Shops Wheelhouse 232269

TestAmerica Job ID: 500-94066-1

Client Sample ID: GP-14

Lab Sample ID: 500-94066-33

Date Collected: 04/01/15 00:00

Matrix: Water

Date Received: 04/02/15 09:30

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	<0.15		1.0	0.15	ug/L			04/10/15 11:45	1
Styrene	<0.10		1.0	0.10	ug/L			04/10/15 11:45	1
tert-Butylbenzene	<0.14		1.0	0.14	ug/L			04/10/15 11:45	1
Tetrachloroethene	<0.17		1.0	0.17	ug/L			04/10/15 11:45	1
Toluene	<0.11		0.50	0.11	ug/L			04/10/15 11:45	1
trans-1,2-Dichloroethene	<0.25		1.0	0.25	ug/L			04/10/15 11:45	1
trans-1,3-Dichloropropene	<0.21		1.0	0.21	ug/L			04/10/15 11:45	1
Trichloroethene	<0.19		0.50	0.19	ug/L			04/10/15 11:45	1
Trichlorofluoromethane	<0.19		1.0	0.19	ug/L			04/10/15 11:45	1
Vinyl chloride	<0.10		0.50	0.10	ug/L			04/10/15 11:45	1
Xylenes, Total	<0.068		1.0	0.068	ug/L			04/10/15 11:45	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	100		75 - 125		04/10/15 11:45	1
4-Bromofluorobenzene (Surr)	102		75 - 120		04/10/15 11:45	1
Dibromofluoromethane	98		75 - 120		04/10/15 11:45	1
Toluene-d8 (Surr)	99		75 - 120		04/10/15 11:45	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	<0.23		0.76	0.23	ug/L		04/06/15 08:41	04/06/15 17:31	1
2-Methylnaphthalene	0.19	J	0.38	0.050	ug/L		04/06/15 08:41	04/06/15 17:31	1
Acenaphthene	<0.23		0.76	0.23	ug/L		04/06/15 08:41	04/06/15 17:31	1
Acenaphthylene	<0.20		0.76	0.20	ug/L		04/06/15 08:41	04/06/15 17:31	1
Anthracene	<0.25		0.76	0.25	ug/L		04/06/15 08:41	04/06/15 17:31	1
Benzo[a]anthracene	<0.043		0.15	0.043	ug/L		04/06/15 08:41	04/06/15 17:31	1
Benzo[a]pyrene	<0.075		0.15	0.075	ug/L		04/06/15 08:41	04/06/15 17:31	1
Benzo[b]fluoranthene	<0.061		0.15	0.061	ug/L		04/06/15 08:41	04/06/15 17:31	1
Benzo[g,h,i]perylene	<0.29		0.76	0.29	ug/L		04/06/15 08:41	04/06/15 17:31	1
Benzo[k]fluoranthene	<0.049		0.15	0.049	ug/L		04/06/15 08:41	04/06/15 17:31	1
Chrysene	<0.052		0.38	0.052	ug/L		04/06/15 08:41	04/06/15 17:31	1
Dibenz(a,h)anthracene	<0.039		0.23	0.039	ug/L		04/06/15 08:41	04/06/15 17:31	1
Fluoranthene	<0.35		0.76	0.35	ug/L		04/06/15 08:41	04/06/15 17:31	1
Fluorene	<0.19		0.76	0.19	ug/L		04/06/15 08:41	04/06/15 17:31	1
Indeno[1,2,3-cd]pyrene	<0.057		0.15	0.057	ug/L		04/06/15 08:41	04/06/15 17:31	1
Naphthalene	<0.23		0.76	0.23	ug/L		04/06/15 08:41	04/06/15 17:31	1
Phenanthrene	<0.23		0.76	0.23	ug/L		04/06/15 08:41	04/06/15 17:31	1
Pyrene	<0.32		0.76	0.32	ug/L		04/06/15 08:41	04/06/15 17:31	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	55		41 - 132	04/06/15 08:41	04/06/15 17:31	1
Nitrobenzene-d5 (Surr)	65		47 - 134	04/06/15 08:41	04/06/15 17:31	1
Terphenyl-d14 (Surr)	83		59 - 150	04/06/15 08:41	04/06/15 17:31	1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.065		0.39	0.065	ug/L		04/03/15 09:11	04/04/15 09:31	1
PCB-1221	<0.19		0.39	0.19	ug/L		04/03/15 09:11	04/04/15 09:31	1
PCB-1232	<0.19		0.39	0.19	ug/L		04/03/15 09:11	04/04/15 09:31	1
PCB-1242	<0.19		0.39	0.19	ug/L		04/03/15 09:11	04/04/15 09:31	1

TestAmerica Chicago

Client Sample Results

Client: TRC Environmental Corporation.
Project/Site: Former CMC Shops Wheelhouse 232269

TestAmerica Job ID: 500-94066-1

Client Sample ID: GP-14

Lab Sample ID: 500-94066-33

Date Collected: 04/01/15 00:00

Matrix: Water

Date Received: 04/02/15 09:30

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1248	<0.19		0.39	0.19	ug/L		04/03/15 09:11	04/04/15 09:31	1
PCB-1254	<0.19		0.39	0.19	ug/L		04/03/15 09:11	04/04/15 09:31	1
PCB-1260	<0.068		0.39	0.068	ug/L		04/03/15 09:11	04/04/15 09:31	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	60		50 - 120				04/03/15 09:11	04/04/15 09:31	1
DCB Decachlorobiphenyl	52		29 - 126				04/03/15 09:11	04/04/15 09:31	1

Method: 6020 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.95	J	1.0	0.44	ug/L		04/03/15 09:55	04/03/15 15:43	1
Barium	170		2.5	0.84	ug/L		04/03/15 09:55	04/03/15 15:43	1
Cadmium	<0.19		0.50	0.19	ug/L		04/03/15 09:55	04/03/15 15:43	1
Chromium	0.64	J	5.0	0.61	ug/L		04/03/15 09:55	04/03/15 15:43	1
Lead	0.61		0.50	0.14	ug/L		04/03/15 09:55	04/03/15 15:43	1
Selenium	0.97	J	2.5	0.83	ug/L		04/03/15 09:55	04/03/15 15:43	1
Silver	<0.080		0.50	0.080	ug/L		04/03/15 09:55	04/03/15 15:43	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.061		0.20	0.061	ug/L		04/03/15 11:30	04/06/15 09:27	1

Client Sample ID: GP-15

Lab Sample ID: 500-94066-34

Date Collected: 04/01/15 00:00

Matrix: Water

Date Received: 04/02/15 09:30

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.25		1.0	0.25	ug/L			04/10/15 12:10	1
1,1,1-Trichloroethane	<0.20		1.0	0.20	ug/L			04/10/15 12:10	1
1,1,2,2-Tetrachloroethane	<0.23		1.0	0.23	ug/L			04/10/15 12:10	1
1,1,2-Trichloroethane	<0.28		1.0	0.28	ug/L			04/10/15 12:10	1
1,1-Dichloroethane	<0.19		1.0	0.19	ug/L			04/10/15 12:10	1
1,1-Dichloroethene	<0.31		1.0	0.31	ug/L			04/10/15 12:10	1
1,1-Dichloropropene	<0.34		1.0	0.34	ug/L			04/10/15 12:10	1
1,2,3-Trichlorobenzene	<0.24		1.0	0.24	ug/L			04/10/15 12:10	1
1,2,3-Trichloropropane	<0.45		1.0	0.45	ug/L			04/10/15 12:10	1
1,2,4-Trichlorobenzene	<0.31		1.0	0.31	ug/L			04/10/15 12:10	1
1,2,4-Trimethylbenzene	<0.14		1.0	0.14	ug/L			04/10/15 12:10	1
1,2-Dibromo-3-Chloropropane	<0.87		2.0	0.87	ug/L			04/10/15 12:10	1
1,2-Dibromoethane	<0.36		1.0	0.36	ug/L			04/10/15 12:10	1
1,2-Dichlorobenzene	<0.27		1.0	0.27	ug/L			04/10/15 12:10	1
1,2-Dichloroethane	<0.28		1.0	0.28	ug/L			04/10/15 12:10	1
1,2-Dichloropropane	<0.20		1.0	0.20	ug/L			04/10/15 12:10	1
1,3,5-Trimethylbenzene	<0.18		1.0	0.18	ug/L			04/10/15 12:10	1
1,3-Dichlorobenzene	<0.15		1.0	0.15	ug/L			04/10/15 12:10	1
1,3-Dichloropropane	<0.13		1.0	0.13	ug/L			04/10/15 12:10	1
1,4-Dichlorobenzene	<0.15		1.0	0.15	ug/L			04/10/15 12:10	1
2,2-Dichloropropane	<0.32		1.0	0.32	ug/L			04/10/15 12:10	1
2-Chlorotoluene	<0.21		1.0	0.21	ug/L			04/10/15 12:10	1

TestAmerica Chicago

Client Sample Results

Client: TRC Environmental Corporation.
Project/Site: Former CMC Shops Wheelhouse 232269

TestAmerica Job ID: 500-94066-1

Client Sample ID: GP-15

Lab Sample ID: 500-94066-34

Date Collected: 04/01/15 00:00

Matrix: Water

Date Received: 04/02/15 09:30

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Chlorotoluene	<0.20		1.0	0.20	ug/L			04/10/15 12:10	1
Benzene	<0.074		0.50	0.074	ug/L			04/10/15 12:10	1
Bromobenzene	<0.25		1.0	0.25	ug/L			04/10/15 12:10	1
Bromochloromethane	<0.40		1.0	0.40	ug/L			04/10/15 12:10	1
Bromodichloromethane	<0.17		1.0	0.17	ug/L			04/10/15 12:10	1
Bromoform	<0.28		1.0	0.28	ug/L			04/10/15 12:10	1
Bromomethane	<0.31		1.0	0.31	ug/L			04/10/15 12:10	1
Carbon tetrachloride	<0.26		1.0	0.26	ug/L			04/10/15 12:10	1
Chlorobenzene	<0.14		1.0	0.14	ug/L			04/10/15 12:10	1
Chloroethane	<0.34		1.0	0.34	ug/L			04/10/15 12:10	1
Chloroform	<0.20		1.0	0.20	ug/L			04/10/15 12:10	1
Chloromethane	<0.18		1.0	0.18	ug/L			04/10/15 12:10	1
cis-1,2-Dichloroethene	<0.12		1.0	0.12	ug/L			04/10/15 12:10	1
cis-1,3-Dichloropropene	<0.18		1.0	0.18	ug/L			04/10/15 12:10	1
Dibromochloromethane	<0.32		1.0	0.32	ug/L			04/10/15 12:10	1
Dibromomethane	<0.33		1.0	0.33	ug/L			04/10/15 12:10	1
Dichlorodifluoromethane	<0.20		1.0	0.20	ug/L			04/10/15 12:10	1
Ethylbenzene	<0.13		0.50	0.13	ug/L			04/10/15 12:10	1
Hexachlorobutadiene	<0.26		1.0	0.26	ug/L			04/10/15 12:10	1
Isopropyl ether	<0.15		1.0	0.15	ug/L			04/10/15 12:10	1
Isopropylbenzene	<0.14		1.0	0.14	ug/L			04/10/15 12:10	1
Methyl tert-butyl ether	<0.24		1.0	0.24	ug/L			04/10/15 12:10	1
Methylene Chloride	<0.68		5.0	0.68	ug/L			04/10/15 12:10	1
Naphthalene	<0.16		1.0	0.16	ug/L			04/10/15 12:10	1
n-Butylbenzene	<0.13		1.0	0.13	ug/L			04/10/15 12:10	1
N-Propylbenzene	<0.13		1.0	0.13	ug/L			04/10/15 12:10	1
p-Isopropyltoluene	<0.17		1.0	0.17	ug/L			04/10/15 12:10	1
sec-Butylbenzene	<0.15		1.0	0.15	ug/L			04/10/15 12:10	1
Styrene	<0.10		1.0	0.10	ug/L			04/10/15 12:10	1
tert-Butylbenzene	<0.14		1.0	0.14	ug/L			04/10/15 12:10	1
Tetrachloroethene	<0.17		1.0	0.17	ug/L			04/10/15 12:10	1
Toluene	<0.11		0.50	0.11	ug/L			04/10/15 12:10	1
trans-1,2-Dichloroethene	<0.25		1.0	0.25	ug/L			04/10/15 12:10	1
trans-1,3-Dichloropropene	<0.21		1.0	0.21	ug/L			04/10/15 12:10	1
Trichloroethene	<0.19		0.50	0.19	ug/L			04/10/15 12:10	1
Trichlorofluoromethane	<0.19		1.0	0.19	ug/L			04/10/15 12:10	1
Vinyl chloride	<0.10		0.50	0.10	ug/L			04/10/15 12:10	1
Xylenes, Total	<0.068		1.0	0.068	ug/L			04/10/15 12:10	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	102		75 - 125		04/10/15 12:10	1
4-Bromofluorobenzene (Surr)	103		75 - 120		04/10/15 12:10	1
Dibromofluoromethane	99		75 - 120		04/10/15 12:10	1
Toluene-d8 (Surr)	100		75 - 120		04/10/15 12:10	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	<0.24		0.80	0.24	ug/L		04/06/15 08:41	04/06/15 17:56	1
2-Methylnaphthalene	0.26	J	0.40	0.052	ug/L		04/06/15 08:41	04/06/15 17:56	1
Acenaphthene	<0.25		0.80	0.25	ug/L		04/06/15 08:41	04/06/15 17:56	1

TestAmerica Chicago

Client Sample Results

Client: TRC Environmental Corporation.
Project/Site: Former CMC Shops Wheelhouse 232269

TestAmerica Job ID: 500-94066-1

Client Sample ID: GP-15

Lab Sample ID: 500-94066-34

Date Collected: 04/01/15 00:00

Matrix: Water

Date Received: 04/02/15 09:30

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthylene	<0.22		0.80	0.22	ug/L		04/06/15 08:41	04/06/15 17:56	1
Anthracene	<0.27		0.80	0.27	ug/L		04/06/15 08:41	04/06/15 17:56	1
Benzo[a]anthracene	0.16		0.16	0.046	ug/L		04/06/15 08:41	04/06/15 17:56	1
Benzo[a]pyrene	0.30		0.16	0.079	ug/L		04/06/15 08:41	04/06/15 17:56	1
Benzo[b]fluoranthene	0.45		0.16	0.065	ug/L		04/06/15 08:41	04/06/15 17:56	1
Benzo[g,h,i]perylene	<0.30		0.80	0.30	ug/L		04/06/15 08:41	04/06/15 17:56	1
Benzo[k]fluoranthene	<0.051		0.16	0.051	ug/L		04/06/15 08:41	04/06/15 17:56	1
Chrysene	0.21	J	0.40	0.055	ug/L		04/06/15 08:41	04/06/15 17:56	1
Dibenz(a,h)anthracene	<0.041		0.24	0.041	ug/L		04/06/15 08:41	04/06/15 17:56	1
Fluoranthene	<0.36		0.80	0.36	ug/L		04/06/15 08:41	04/06/15 17:56	1
Fluorene	<0.20		0.80	0.20	ug/L		04/06/15 08:41	04/06/15 17:56	1
Indeno[1,2,3-cd]pyrene	<0.060		0.16	0.060	ug/L		04/06/15 08:41	04/06/15 17:56	1
Naphthalene	<0.25		0.80	0.25	ug/L		04/06/15 08:41	04/06/15 17:56	1
Phenanthrene	<0.24		0.80	0.24	ug/L		04/06/15 08:41	04/06/15 17:56	1
Pyrene	<0.34		0.80	0.34	ug/L		04/06/15 08:41	04/06/15 17:56	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	54		41 - 132	04/06/15 08:41	04/06/15 17:56	1
Nitrobenzene-d5 (Surr)	63		47 - 134	04/06/15 08:41	04/06/15 17:56	1
Terphenyl-d14 (Surr)	75		59 - 150	04/06/15 08:41	04/06/15 17:56	1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.066		0.39	0.066	ug/L		04/03/15 09:11	04/04/15 09:45	1
PCB-1221	<0.20		0.39	0.20	ug/L		04/03/15 09:11	04/04/15 09:45	1
PCB-1232	<0.20		0.39	0.20	ug/L		04/03/15 09:11	04/04/15 09:45	1
PCB-1242	<0.20		0.39	0.20	ug/L		04/03/15 09:11	04/04/15 09:45	1
PCB-1248	<0.20		0.39	0.20	ug/L		04/03/15 09:11	04/04/15 09:45	1
PCB-1254	<0.20		0.39	0.20	ug/L		04/03/15 09:11	04/04/15 09:45	1
PCB-1260	<0.068		0.39	0.068	ug/L		04/03/15 09:11	04/04/15 09:45	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	65		50 - 120	04/03/15 09:11	04/04/15 09:45	1
DCB Decachlorobiphenyl	60		29 - 126	04/03/15 09:11	04/04/15 09:45	1

Method: 6020 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.83	J	1.0	0.44	ug/L		04/03/15 09:55	04/03/15 15:47	1
Barium	120		2.5	0.84	ug/L		04/03/15 09:55	04/03/15 15:47	1
Cadmium	<0.19		0.50	0.19	ug/L		04/03/15 09:55	04/03/15 15:47	1
Chromium	<0.61		5.0	0.61	ug/L		04/03/15 09:55	04/03/15 15:47	1
Lead	0.46	J	0.50	0.14	ug/L		04/03/15 09:55	04/03/15 15:47	1
Selenium	2.0	J	2.5	0.83	ug/L		04/03/15 09:55	04/03/15 15:47	1
Silver	<0.080		0.50	0.080	ug/L		04/03/15 09:55	04/03/15 15:47	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.061		0.20	0.061	ug/L		04/03/15 11:30	04/06/15 09:29	1

TestAmerica Chicago

Client Sample Results

Client: TRC Environmental Corporation.
Project/Site: Former CMC Shops Wheelhouse 232269

TestAmerica Job ID: 500-94066-1

Client Sample ID: MeoH Blank

Lab Sample ID: 500-94066-35

Date Collected: 03/30/15 00:00

Matrix: Solid

Date Received: 04/02/15 09:30

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<17		100	17	ug/Kg		03/31/15 00:00	04/10/15 18:02	50
1,1,1-Trichloroethane	<10		50	10	ug/Kg		03/31/15 00:00	04/10/15 18:02	50
1,1,2,2-Tetrachloroethane	<12		50	12	ug/Kg		03/31/15 00:00	04/10/15 18:02	50
1,1,2-Trichloroethane	<14		50	14	ug/Kg		03/31/15 00:00	04/10/15 18:02	50
1,1-Dichloroethane	<9.3		50	9.3	ug/Kg		03/31/15 00:00	04/10/15 18:02	50
1,1-Dichloroethene	<15		50	15	ug/Kg		03/31/15 00:00	04/10/15 18:02	50
1,1-Dichloropropene	<17		50	17	ug/Kg		03/31/15 00:00	04/10/15 18:02	50
1,2,3-Trichlorobenzene	<18		100	18	ug/Kg		03/31/15 00:00	04/10/15 18:02	50
1,2,3-Trichloropropane	<29		100	29	ug/Kg		03/31/15 00:00	04/10/15 18:02	50
1,2,4-Trichlorobenzene	<19		100	19	ug/Kg		03/31/15 00:00	04/10/15 18:02	50
1,2,4-Trimethylbenzene	<11		100	11	ug/Kg		03/31/15 00:00	04/10/15 18:02	50
1,2-Dibromo-3-Chloropropane	<44		100	44	ug/Kg		03/31/15 00:00	04/10/15 18:02	50
1,2-Dibromoethane	<16		100	16	ug/Kg		03/31/15 00:00	04/10/15 18:02	50
1,2-Dichlorobenzene	<10		100	10	ug/Kg		03/31/15 00:00	04/10/15 18:02	50
1,2-Dichloroethane	<14		50	14	ug/Kg		03/31/15 00:00	04/10/15 18:02	50
1,2-Dichloropropane	<9.8		50	9.8	ug/Kg		03/31/15 00:00	04/10/15 18:02	50
1,3,5-Trimethylbenzene	<10		100	10	ug/Kg		03/31/15 00:00	04/10/15 18:02	50
1,3-Dichlorobenzene	<13		100	13	ug/Kg		03/31/15 00:00	04/10/15 18:02	50
1,3-Dichloropropane	<6.7		50	6.7	ug/Kg		03/31/15 00:00	04/10/15 18:02	50
1,4-Dichlorobenzene	<8.7		100	8.7	ug/Kg		03/31/15 00:00	04/10/15 18:02	50
2,2-Dichloropropane	<16		50	16	ug/Kg		03/31/15 00:00	04/10/15 18:02	50
2-Chlorotoluene	<10		50	10	ug/Kg		03/31/15 00:00	04/10/15 18:02	50
4-Chlorotoluene	<9.9		50	9.9	ug/Kg		03/31/15 00:00	04/10/15 18:02	50
Benzene	<3.7		13	3.7	ug/Kg		03/31/15 00:00	04/10/15 18:02	50
Bromobenzene	<21		100	21	ug/Kg		03/31/15 00:00	04/10/15 18:02	50
Bromochloromethane	<19		100	19	ug/Kg		03/31/15 00:00	04/10/15 18:02	50
Bromodichloromethane	<17		100	17	ug/Kg		03/31/15 00:00	04/10/15 18:02	50
Bromoform	<22		100	22	ug/Kg		03/31/15 00:00	04/10/15 18:02	50
Bromomethane	<34		100	34	ug/Kg		03/31/15 00:00	04/10/15 18:02	50
Carbon tetrachloride	<13		50	13	ug/Kg		03/31/15 00:00	04/10/15 18:02	50
Chlorobenzene	<7.2		50	7.2	ug/Kg		03/31/15 00:00	04/10/15 18:02	50
Chloroethane	<22		100	22	ug/Kg		03/31/15 00:00	04/10/15 18:02	50
Chloroform	<10		50	10	ug/Kg		03/31/15 00:00	04/10/15 18:02	50
Chloromethane	<23		100	23	ug/Kg		03/31/15 00:00	04/10/15 18:02	50
cis-1,2-Dichloroethene	<6.2		50	6.2	ug/Kg		03/31/15 00:00	04/10/15 18:02	50
cis-1,3-Dichloropropene	<8.9		50	8.9	ug/Kg		03/31/15 00:00	04/10/15 18:02	50
Dibromochloromethane	<17		100	17	ug/Kg		03/31/15 00:00	04/10/15 18:02	50
Dibromomethane	<24		100	24	ug/Kg		03/31/15 00:00	04/10/15 18:02	50
Dichlorodifluoromethane	<26		100	26	ug/Kg		03/31/15 00:00	04/10/15 18:02	50
Ethylbenzene	<6.3		13	6.3	ug/Kg		03/31/15 00:00	04/10/15 18:02	50
Hexachlorobutadiene	<17		100	17	ug/Kg		03/31/15 00:00	04/10/15 18:02	50
Isopropyl ether	<7.4		100	7.4	ug/Kg		03/31/15 00:00	04/10/15 18:02	50
Isopropylbenzene	<13		100	13	ug/Kg		03/31/15 00:00	04/10/15 18:02	50
Methyl tert-butyl ether	<22		100	22	ug/Kg		03/31/15 00:00	04/10/15 18:02	50
Methylene Chloride	<34		250	34	ug/Kg		03/31/15 00:00	04/10/15 18:02	50
Naphthalene	<25		100	25	ug/Kg		03/31/15 00:00	04/10/15 18:02	50
n-Butylbenzene	<6.5		50	6.5	ug/Kg		03/31/15 00:00	04/10/15 18:02	50
N-Propylbenzene	<8.8		100	8.8	ug/Kg		03/31/15 00:00	04/10/15 18:02	50
p-Isopropyltoluene	<9.3		100	9.3	ug/Kg		03/31/15 00:00	04/10/15 18:02	50

TestAmerica Chicago

Client Sample Results

Client: TRC Environmental Corporation.
Project/Site: Former CMC Shops Wheelhouse 232269

TestAmerica Job ID: 500-94066-1

Client Sample ID: MeoH Blank

Lab Sample ID: 500-94066-35

Date Collected: 03/30/15 00:00

Matrix: Solid

Date Received: 04/02/15 09:30

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	<7.7		50	7.7	ug/Kg		03/31/15 00:00	04/10/15 18:02	50
Styrene	<4.9		50	4.9	ug/Kg		03/31/15 00:00	04/10/15 18:02	50
tert-Butylbenzene	<6.8		50	6.8	ug/Kg		03/31/15 00:00	04/10/15 18:02	50
Tetrachloroethene	<8.4		50	8.4	ug/Kg		03/31/15 00:00	04/10/15 18:02	50
Toluene	<5.8		13	5.8	ug/Kg		03/31/15 00:00	04/10/15 18:02	50
trans-1,2-Dichloroethene	<13		50	13	ug/Kg		03/31/15 00:00	04/10/15 18:02	50
trans-1,3-Dichloropropene	<10		50	10	ug/Kg		03/31/15 00:00	04/10/15 18:02	50
Trichloroethene	<9.3		25	9.3	ug/Kg		03/31/15 00:00	04/10/15 18:02	50
Trichlorofluoromethane	<21		100	21	ug/Kg		03/31/15 00:00	04/10/15 18:02	50
Vinyl chloride	<5.2		13	5.2	ug/Kg		03/31/15 00:00	04/10/15 18:02	50
Xylenes, Total	<3.4		25	3.4	ug/Kg		03/31/15 00:00	04/10/15 18:02	50
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	104		75 - 125				03/31/15 00:00	04/10/15 18:02	50
4-Bromofluorobenzene (Surr)	105		75 - 120				03/31/15 00:00	04/10/15 18:02	50
Dibromofluoromethane	103		75 - 120				03/31/15 00:00	04/10/15 18:02	50
Toluene-d8 (Surr)	98		75 - 120				03/31/15 00:00	04/10/15 18:02	50

Definitions/Glossary

Client: TRC Environmental Corporation.
Project/Site: Former CMC Shops Wheelhouse 232269

TestAmerica Job ID: 500-94066-1

Qualifiers

GC/MS VOA

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.

GC/MS Semi VOA

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.
F1	MS and/or MSD Recovery exceeds the control limits
F2	MS/MSD RPD exceeds control limits
X	Surrogate is outside control limits

GC Semi VOA

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.
X	Surrogate is outside control limits

Metals

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.
B	Compound was found in the blank and sample.
V	Serial Dilution exceeds the control limits
F1	MS and/or MSD Recovery exceeds the control limits
F5	Duplicate RPD exceeds limit, and one or both sample results are less than 5 times RL. The data are considered valid because the absolute difference is less than the RL.
F3	Duplicate RPD exceeds the control limit

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
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
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
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)

QC Association Summary

Client: TRC Environmental Corporation.
Project/Site: Former CMC Shops Wheelhouse 232269

TestAmerica Job ID: 500-94066-1

GC/MS VOA

Prep Batch: 282506

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-94066-1	GP-1 (2-4)	Total/NA	Solid	5035	
500-94066-2	GP-1 (6-8)	Total/NA	Solid	5035	
500-94066-3	GP-1 (14-16)	Total/NA	Solid	5035	
500-94066-4	GP-2 (4-6)	Total/NA	Solid	5035	
500-94066-5	GP-2 (8-10)	Total/NA	Solid	5035	
500-94066-6	GP-2 (14-16)	Total/NA	Solid	5035	
500-94066-7	GP-3 (2-4)	Total/NA	Solid	5035	
500-94066-8	GP-3 (8-10)	Total/NA	Solid	5035	
500-94066-9	GP-4 (2-4)	Total/NA	Solid	5035	
500-94066-10	GP-4 (6-8)	Total/NA	Solid	5035	
500-94066-11	GP-5 (2-4)	Total/NA	Solid	5035	
500-94066-12	GP-5 (6-8)	Total/NA	Solid	5035	
500-94066-13	GP-6 (4-6)	Total/NA	Solid	5035	
500-94066-14	GP-6 (10-12)	Total/NA	Solid	5035	
500-94066-15	GP-6 (14-16)	Total/NA	Solid	5035	
500-94066-16	GP-7 (4-6)	Total/NA	Solid	5035	
500-94066-17	GP-7 (10-12)	Total/NA	Solid	5035	
500-94066-18	GP-7 (14-16)	Total/NA	Solid	5035	
500-94066-19	GP-8 (4-6)	Total/NA	Solid	5035	
500-94066-20	GP-9 (2-4)	Total/NA	Solid	5035	
LB3 500-282506/21-A	Method Blank	Total/NA	Solid	5035	
LCS 500-282506/22-A	Lab Control Sample	Total/NA	Solid	5035	

Prep Batch: 282507

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-94066-21	GP-10 (2-4)	Total/NA	Solid	5035	
500-94066-22	GP-10 (8-10)	Total/NA	Solid	5035	
500-94066-23	GP-10 (14-16)	Total/NA	Solid	5035	
500-94066-24	GP-11 (4-6)	Total/NA	Solid	5035	
500-94066-25	GP-12 (4-6)	Total/NA	Solid	5035	
500-94066-26	GP-13 (2-4)	Total/NA	Solid	5035	
500-94066-27	GP-14 (2-4)	Total/NA	Solid	5035	
500-94066-28	GP-14 (8-10)	Total/NA	Solid	5035	
500-94066-29	GP-15 (4-6)	Total/NA	Solid	5035	
500-94066-30	GP-15 (8-10)	Total/NA	Solid	5035	
500-94066-31	GP-15 (14-16)	Total/NA	Solid	5035	
500-94066-35	MeoH Blank	Total/NA	Solid	5035	
LB3 500-282507/13-A	Method Blank	Total/NA	Solid	5035	
LCS 500-282507/14-A	Lab Control Sample	Total/NA	Solid	5035	

Analysis Batch: 283042

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-94066-1	GP-1 (2-4)	Total/NA	Solid	8260B	282506
500-94066-2	GP-1 (6-8)	Total/NA	Solid	8260B	282506
500-94066-3	GP-1 (14-16)	Total/NA	Solid	8260B	282506
500-94066-4	GP-2 (4-6)	Total/NA	Solid	8260B	282506
500-94066-5	GP-2 (8-10)	Total/NA	Solid	8260B	282506
500-94066-6	GP-2 (14-16)	Total/NA	Solid	8260B	282506
500-94066-7	GP-3 (2-4)	Total/NA	Solid	8260B	282506
500-94066-8	GP-3 (8-10)	Total/NA	Solid	8260B	282506
500-94066-9	GP-4 (2-4)	Total/NA	Solid	8260B	282506

TestAmerica Chicago

QC Association Summary

Client: TRC Environmental Corporation.
Project/Site: Former CMC Shops Wheelhouse 232269

TestAmerica Job ID: 500-94066-1

GC/MS VOA (Continued)

Analysis Batch: 283042 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-94066-10	GP-4 (6-8)	Total/NA	Solid	8260B	282506
500-94066-11	GP-5 (2-4)	Total/NA	Solid	8260B	282506
500-94066-12	GP-5 (6-8)	Total/NA	Solid	8260B	282506
500-94066-13	GP-6 (4-6)	Total/NA	Solid	8260B	282506
500-94066-14	GP-6 (10-12)	Total/NA	Solid	8260B	282506
500-94066-15	GP-6 (14-16)	Total/NA	Solid	8260B	282506
500-94066-16	GP-7 (4-6)	Total/NA	Solid	8260B	282506
500-94066-17	GP-7 (10-12)	Total/NA	Solid	8260B	282506
500-94066-18	GP-7 (14-16)	Total/NA	Solid	8260B	282506
LB3 500-282507/13-A	Method Blank	Total/NA	Solid	8260B	282507
LCS 500-282507/14-A	Lab Control Sample	Total/NA	Solid	8260B	282507
LCS 500-283042/4	Lab Control Sample	Total/NA	Solid	8260B	282507
MB 500-283042/6	Method Blank	Total/NA	Solid	8260B	282507

Analysis Batch: 283234

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-94066-19	GP-8 (4-6)	Total/NA	Solid	8260B	282506
500-94066-20	GP-9 (2-4)	Total/NA	Solid	8260B	282506
500-94066-21	GP-10 (2-4)	Total/NA	Solid	8260B	282507
500-94066-22	GP-10 (8-10)	Total/NA	Solid	8260B	282507
500-94066-23	GP-10 (14-16)	Total/NA	Solid	8260B	282507
500-94066-24	GP-11 (4-6)	Total/NA	Solid	8260B	282507
500-94066-25	GP-12 (4-6)	Total/NA	Solid	8260B	282507
500-94066-26	GP-13 (2-4)	Total/NA	Solid	8260B	282507
500-94066-27	GP-14 (2-4)	Total/NA	Solid	8260B	282507
500-94066-28	GP-14 (8-10)	Total/NA	Solid	8260B	282507
500-94066-29	GP-15 (4-6)	Total/NA	Solid	8260B	282507
500-94066-30	GP-15 (8-10)	Total/NA	Solid	8260B	282507
500-94066-31	GP-15 (14-16)	Total/NA	Solid	8260B	282507
500-94066-35	MeoH Blank	Total/NA	Solid	8260B	282507
LB3 500-282506/21-A	Method Blank	Total/NA	Solid	8260B	282506
LCS 500-282506/22-A	Lab Control Sample	Total/NA	Solid	8260B	282506
LCS 500-283234/4	Lab Control Sample	Total/NA	Solid	8260B	282506
MB 500-283234/6	Method Blank	Total/NA	Solid	8260B	282506

Analysis Batch: 283235

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-94066-32	GP-1	Total/NA	Water	8260B	
500-94066-32 MS	GP-1	Total/NA	Water	8260B	
500-94066-32 MSD	GP-1	Total/NA	Water	8260B	
500-94066-33	GP-14	Total/NA	Water	8260B	
500-94066-34	GP-15	Total/NA	Water	8260B	
LCS 500-283235/4	Lab Control Sample	Total/NA	Water	8260B	
MB 500-283235/6	Method Blank	Total/NA	Water	8260B	

GC/MS Semi VOA

Prep Batch: 282339

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-94066-1	GP-1 (2-4)	Total/NA	Solid	3541	

TestAmerica Chicago

QC Association Summary

Client: TRC Environmental Corporation.
Project/Site: Former CMC Shops Wheelhouse 232269

TestAmerica Job ID: 500-94066-1

GC/MS Semi VOA (Continued)

Prep Batch: 282339 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-94066-1 MS	GP-1 (2-4)	Total/NA	Solid	3541	
500-94066-1 MSD	GP-1 (2-4)	Total/NA	Solid	3541	
500-94066-2	GP-1 (6-8)	Total/NA	Solid	3541	
500-94066-4	GP-2 (4-6)	Total/NA	Solid	3541	
500-94066-7	GP-3 (2-4)	Total/NA	Solid	3541	
500-94066-9	GP-4 (2-4)	Total/NA	Solid	3541	
500-94066-10 - DL	GP-4 (6-8)	Total/NA	Solid	3541	
500-94066-10	GP-4 (6-8)	Total/NA	Solid	3541	
500-94066-11	GP-5 (2-4)	Total/NA	Solid	3541	
500-94066-12	GP-5 (6-8)	Total/NA	Solid	3541	
500-94066-13	GP-6 (4-6)	Total/NA	Solid	3541	
500-94066-14	GP-6 (10-12)	Total/NA	Solid	3541	
500-94066-16	GP-7 (4-6)	Total/NA	Solid	3541	
500-94066-17	GP-7 (10-12)	Total/NA	Solid	3541	
500-94066-19	GP-8 (4-6)	Total/NA	Solid	3541	
500-94066-20	GP-9 (2-4)	Total/NA	Solid	3541	
500-94066-21	GP-10 (2-4)	Total/NA	Solid	3541	
500-94066-22	GP-10 (8-10)	Total/NA	Solid	3541	
500-94066-24	GP-11 (4-6)	Total/NA	Solid	3541	
500-94066-25	GP-12 (4-6)	Total/NA	Solid	3541	
500-94066-26	GP-13 (2-4)	Total/NA	Solid	3541	
LCS 500-282339/2-A	Lab Control Sample	Total/NA	Solid	3541	
MB 500-282339/1-A	Method Blank	Total/NA	Solid	3541	

Prep Batch: 282561

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-94066-32	GP-1	Total/NA	Water	3510C	
500-94066-33	GP-14	Total/NA	Water	3510C	
500-94066-34	GP-15	Total/NA	Water	3510C	

Analysis Batch: 282633

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-94066-32	GP-1	Total/NA	Water	8270D	282561
500-94066-33	GP-14	Total/NA	Water	8270D	282561
500-94066-34	GP-15	Total/NA	Water	8270D	282561

Analysis Batch: 282665

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 500-282339/2-A	Lab Control Sample	Total/NA	Solid	8270D	282339
MB 500-282339/1-A	Method Blank	Total/NA	Solid	8270D	282339

Prep Batch: 282689

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-94066-5	GP-2 (8-10)	Total/NA	Solid	3541	
500-94066-8 - DL	GP-3 (8-10)	Total/NA	Solid	3541	
500-94066-8	GP-3 (8-10)	Total/NA	Solid	3541	
500-94066-27	GP-14 (2-4)	Total/NA	Solid	3541	
500-94066-28	GP-14 (8-10)	Total/NA	Solid	3541	
500-94066-29	GP-15 (4-6)	Total/NA	Solid	3541	
500-94066-30	GP-15 (8-10)	Total/NA	Solid	3541	
LCS 500-282689/2-A	Lab Control Sample	Total/NA	Solid	3541	

TestAmerica Chicago

QC Association Summary

Client: TRC Environmental Corporation.
Project/Site: Former CMC Shops Wheelhouse 232269

TestAmerica Job ID: 500-94066-1

GC/MS Semi VOA (Continued)

Prep Batch: 282689 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 500-282689/1-A	Method Blank	Total/NA	Solid	3541	

Analysis Batch: 282767

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 500-282689/2-A	Lab Control Sample	Total/NA	Solid	8270D	282689
MB 500-282689/1-A	Method Blank	Total/NA	Solid	8270D	282689

Analysis Batch: 282885

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-94066-1 MS	GP-1 (2-4)	Total/NA	Solid	8270D	282339
500-94066-1 MSD	GP-1 (2-4)	Total/NA	Solid	8270D	282339
500-94066-4	GP-2 (4-6)	Total/NA	Solid	8270D	282339
500-94066-5	GP-2 (8-10)	Total/NA	Solid	8270D	282689
500-94066-7	GP-3 (2-4)	Total/NA	Solid	8270D	282339
500-94066-8	GP-3 (8-10)	Total/NA	Solid	8270D	282689
500-94066-9	GP-4 (2-4)	Total/NA	Solid	8270D	282339
500-94066-11	GP-5 (2-4)	Total/NA	Solid	8270D	282339
500-94066-13	GP-6 (4-6)	Total/NA	Solid	8270D	282339
500-94066-14	GP-6 (10-12)	Total/NA	Solid	8270D	282339
500-94066-16	GP-7 (4-6)	Total/NA	Solid	8270D	282339
500-94066-17	GP-7 (10-12)	Total/NA	Solid	8270D	282339
500-94066-25	GP-12 (4-6)	Total/NA	Solid	8270D	282339
500-94066-27	GP-14 (2-4)	Total/NA	Solid	8270D	282689
500-94066-28	GP-14 (8-10)	Total/NA	Solid	8270D	282689

Analysis Batch: 283281

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-94066-1	GP-1 (2-4)	Total/NA	Solid	8270D	282339
500-94066-2	GP-1 (6-8)	Total/NA	Solid	8270D	282339
500-94066-8 - DL	GP-3 (8-10)	Total/NA	Solid	8270D	282689
500-94066-10	GP-4 (6-8)	Total/NA	Solid	8270D	282339
500-94066-20	GP-9 (2-4)	Total/NA	Solid	8270D	282339
500-94066-21	GP-10 (2-4)	Total/NA	Solid	8270D	282339
500-94066-22	GP-10 (8-10)	Total/NA	Solid	8270D	282339
500-94066-24	GP-11 (4-6)	Total/NA	Solid	8270D	282339
500-94066-26	GP-13 (2-4)	Total/NA	Solid	8270D	282339
500-94066-29	GP-15 (4-6)	Total/NA	Solid	8270D	282689

Analysis Batch: 283407

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-94066-10 - DL	GP-4 (6-8)	Total/NA	Solid	8270D	282339
500-94066-12	GP-5 (6-8)	Total/NA	Solid	8270D	282339
500-94066-19	GP-8 (4-6)	Total/NA	Solid	8270D	282339
500-94066-30	GP-15 (8-10)	Total/NA	Solid	8270D	282689

GC Semi VOA

Prep Batch: 282335

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-94066-1	GP-1 (2-4)	Total/NA	Solid	3541	

TestAmerica Chicago

QC Association Summary

Client: TRC Environmental Corporation.
Project/Site: Former CMC Shops Wheelhouse 232269

TestAmerica Job ID: 500-94066-1

GC Semi VOA (Continued)

Prep Batch: 282335 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-94066-1 MS	GP-1 (2-4)	Total/NA	Solid	3541	
500-94066-1 MSD	GP-1 (2-4)	Total/NA	Solid	3541	
500-94066-2	GP-1 (6-8)	Total/NA	Solid	3541	
500-94066-4	GP-2 (4-6)	Total/NA	Solid	3541	
500-94066-7	GP-3 (2-4)	Total/NA	Solid	3541	
500-94066-9	GP-4 (2-4)	Total/NA	Solid	3541	
500-94066-10	GP-4 (6-8)	Total/NA	Solid	3541	
500-94066-11	GP-5 (2-4)	Total/NA	Solid	3541	
500-94066-12	GP-5 (6-8)	Total/NA	Solid	3541	
500-94066-13	GP-6 (4-6)	Total/NA	Solid	3541	
500-94066-14	GP-6 (10-12)	Total/NA	Solid	3541	
500-94066-16	GP-7 (4-6)	Total/NA	Solid	3541	
500-94066-17	GP-7 (10-12)	Total/NA	Solid	3541	
500-94066-19	GP-8 (4-6)	Total/NA	Solid	3541	
500-94066-20	GP-9 (2-4)	Total/NA	Solid	3541	
500-94066-21	GP-10 (2-4)	Total/NA	Solid	3541	
500-94066-22	GP-10 (8-10)	Total/NA	Solid	3541	
500-94066-24	GP-11 (4-6)	Total/NA	Solid	3541	
500-94066-25	GP-12 (4-6)	Total/NA	Solid	3541	
500-94066-26	GP-13 (2-4)	Total/NA	Solid	3541	
500-94066-27	GP-14 (2-4)	Total/NA	Solid	3541	
LCS 500-282335/2-A	Lab Control Sample	Total/NA	Solid	3541	
MB 500-282335/1-A	Method Blank	Total/NA	Solid	3541	

Prep Batch: 282371

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-94066-32	GP-1	Total/NA	Water	3510C	
500-94066-33	GP-14	Total/NA	Water	3510C	
500-94066-34	GP-15	Total/NA	Water	3510C	
LCS 500-282371/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 500-282371/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	
MB 500-282371/1-A	Method Blank	Total/NA	Water	3510C	

Analysis Batch: 282488

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-94066-32	GP-1	Total/NA	Water	8082	282371
500-94066-33	GP-14	Total/NA	Water	8082	282371
500-94066-34	GP-15	Total/NA	Water	8082	282371
LCS 500-282371/2-A	Lab Control Sample	Total/NA	Water	8082	282371
LCSD 500-282371/3-A	Lab Control Sample Dup	Total/NA	Water	8082	282371
MB 500-282371/1-A	Method Blank	Total/NA	Water	8082	282371

Analysis Batch: 282489

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-94066-1	GP-1 (2-4)	Total/NA	Solid	8082	282335
500-94066-1 MS	GP-1 (2-4)	Total/NA	Solid	8082	282335
500-94066-1 MSD	GP-1 (2-4)	Total/NA	Solid	8082	282335
500-94066-2	GP-1 (6-8)	Total/NA	Solid	8082	282335
500-94066-4	GP-2 (4-6)	Total/NA	Solid	8082	282335
500-94066-7	GP-3 (2-4)	Total/NA	Solid	8082	282335
500-94066-9	GP-4 (2-4)	Total/NA	Solid	8082	282335

TestAmerica Chicago

QC Association Summary

Client: TRC Environmental Corporation.
Project/Site: Former CMC Shops Wheelhouse 232269

TestAmerica Job ID: 500-94066-1

GC Semi VOA (Continued)

Analysis Batch: 282489 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-94066-10	GP-4 (6-8)	Total/NA	Solid	8082	282335
500-94066-11	GP-5 (2-4)	Total/NA	Solid	8082	282335
500-94066-12	GP-5 (6-8)	Total/NA	Solid	8082	282335
500-94066-13	GP-6 (4-6)	Total/NA	Solid	8082	282335
500-94066-14	GP-6 (10-12)	Total/NA	Solid	8082	282335
500-94066-16	GP-7 (4-6)	Total/NA	Solid	8082	282335
500-94066-17	GP-7 (10-12)	Total/NA	Solid	8082	282335
500-94066-19	GP-8 (4-6)	Total/NA	Solid	8082	282335
500-94066-20	GP-9 (2-4)	Total/NA	Solid	8082	282335
500-94066-21	GP-10 (2-4)	Total/NA	Solid	8082	282335
500-94066-22	GP-10 (8-10)	Total/NA	Solid	8082	282335
500-94066-24	GP-11 (4-6)	Total/NA	Solid	8082	282335
500-94066-25	GP-12 (4-6)	Total/NA	Solid	8082	282335
500-94066-26	GP-13 (2-4)	Total/NA	Solid	8082	282335
500-94066-27	GP-14 (2-4)	Total/NA	Solid	8082	282335
LCS 500-282335/2-A	Lab Control Sample	Total/NA	Solid	8082	282335
MB 500-282335/1-A	Method Blank	Total/NA	Solid	8082	282335

Prep Batch: 282643

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-94066-5	GP-2 (8-10)	Total/NA	Solid	3541	
500-94066-8	GP-3 (8-10)	Total/NA	Solid	3541	
500-94066-28	GP-14 (8-10)	Total/NA	Solid	3541	
500-94066-29	GP-15 (4-6)	Total/NA	Solid	3541	
500-94066-30	GP-15 (8-10)	Total/NA	Solid	3541	
LCS 500-282643/2-A	Lab Control Sample	Total/NA	Solid	3541	
MB 500-282643/1-A	Method Blank	Total/NA	Solid	3541	

Analysis Batch: 282711

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-94066-5	GP-2 (8-10)	Total/NA	Solid	8082	282643
500-94066-8	GP-3 (8-10)	Total/NA	Solid	8082	282643
500-94066-28	GP-14 (8-10)	Total/NA	Solid	8082	282643
500-94066-29	GP-15 (4-6)	Total/NA	Solid	8082	282643
500-94066-30	GP-15 (8-10)	Total/NA	Solid	8082	282643
LCS 500-282643/2-A	Lab Control Sample	Total/NA	Solid	8082	282643
MB 500-282643/1-A	Method Blank	Total/NA	Solid	8082	282643

Metals

Prep Batch: 282395

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-94066-32	GP-1	Total Recoverable	Water	3005A	
500-94066-33	GP-14	Total Recoverable	Water	3005A	
500-94066-34	GP-15	Total Recoverable	Water	3005A	
LCS 500-282395/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
MB 500-282395/1-A	Method Blank	Total Recoverable	Water	3005A	

TestAmerica Chicago

QC Association Summary

Client: TRC Environmental Corporation.
Project/Site: Former CMC Shops Wheelhouse 232269

TestAmerica Job ID: 500-94066-1

Metals (Continued)

Prep Batch: 282400

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-94066-32	GP-1	Total/NA	Water	7470A	
500-94066-33	GP-14	Total/NA	Water	7470A	
500-94066-34	GP-15	Total/NA	Water	7470A	
LCS 500-282400/13-A	Lab Control Sample	Total/NA	Water	7470A	
MB 500-282400/12-A	Method Blank	Total/NA	Water	7470A	

Prep Batch: 282433

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-94066-1	GP-1 (2-4)	Total/NA	Solid	7471A	
500-94066-2	GP-1 (6-8)	Total/NA	Solid	7471A	
500-94066-4	GP-2 (4-6)	Total/NA	Solid	7471A	
500-94066-7	GP-3 (2-4)	Total/NA	Solid	7471A	
500-94066-7 DU	GP-3 (2-4)	Total/NA	Solid	7471A	
500-94066-7 MS	GP-3 (2-4)	Total/NA	Solid	7471A	
500-94066-7 MSD	GP-3 (2-4)	Total/NA	Solid	7471A	
500-94066-9	GP-4 (2-4)	Total/NA	Solid	7471A	
500-94066-11	GP-5 (2-4)	Total/NA	Solid	7471A	
500-94066-12	GP-5 (6-8)	Total/NA	Solid	7471A	
500-94066-13	GP-6 (4-6)	Total/NA	Solid	7471A	
500-94066-14	GP-6 (10-12)	Total/NA	Solid	7471A	
500-94066-16	GP-7 (4-6)	Total/NA	Solid	7471A	
500-94066-17	GP-7 (10-12)	Total/NA	Solid	7471A	
500-94066-19	GP-8 (4-6)	Total/NA	Solid	7471A	
500-94066-20	GP-9 (2-4)	Total/NA	Solid	7471A	
500-94066-21	GP-10 (2-4)	Total/NA	Solid	7471A	
500-94066-22	GP-10 (8-10)	Total/NA	Solid	7471A	
500-94066-24	GP-11 (4-6)	Total/NA	Solid	7471A	
500-94066-25	GP-12 (4-6)	Total/NA	Solid	7471A	
500-94066-26	GP-13 (2-4)	Total/NA	Solid	7471A	
500-94066-27	GP-14 (2-4)	Total/NA	Solid	7471A	
500-94066-28	GP-14 (8-10)	Total/NA	Solid	7471A	
LCS 500-282433/13-A	Lab Control Sample	Total/NA	Solid	7471A	
MB 500-282433/12-A	Method Blank	Total/NA	Solid	7471A	

Prep Batch: 282437

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-94066-29	GP-15 (4-6)	Total/NA	Solid	7471A	
500-94066-30	GP-15 (8-10)	Total/NA	Solid	7471A	
LCS 500-282437/13-A	Lab Control Sample	Total/NA	Solid	7471A	
MB 500-282437/12-A	Method Blank	Total/NA	Solid	7471A	

Prep Batch: 282530

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-94066-9	GP-4 (2-4)	Total/NA	Solid	3050B	
500-94066-9 DU	GP-4 (2-4)	Total/NA	Solid	3050B	
500-94066-9 MS	GP-4 (2-4)	Total/NA	Solid	3050B	
500-94066-9 MSD	GP-4 (2-4)	Total/NA	Solid	3050B	
500-94066-10	GP-4 (6-8)	Total/NA	Solid	3050B	
500-94066-11	GP-5 (2-4)	Total/NA	Solid	3050B	
500-94066-12	GP-5 (6-8)	Total/NA	Solid	3050B	
500-94066-13	GP-6 (4-6)	Total/NA	Solid	3050B	

TestAmerica Chicago

QC Association Summary

Client: TRC Environmental Corporation.
Project/Site: Former CMC Shops Wheelhouse 232269

TestAmerica Job ID: 500-94066-1

Metals (Continued)

Prep Batch: 282530 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-94066-14	GP-6 (10-12)	Total/NA	Solid	3050B	
500-94066-16	GP-7 (4-6)	Total/NA	Solid	3050B	
500-94066-17	GP-7 (10-12)	Total/NA	Solid	3050B	
500-94066-19	GP-8 (4-6)	Total/NA	Solid	3050B	
500-94066-20	GP-9 (2-4)	Total/NA	Solid	3050B	
500-94066-21	GP-10 (2-4)	Total/NA	Solid	3050B	
500-94066-22	GP-10 (8-10)	Total/NA	Solid	3050B	
500-94066-24	GP-11 (4-6)	Total/NA	Solid	3050B	
500-94066-25	GP-12 (4-6)	Total/NA	Solid	3050B	
500-94066-26	GP-13 (2-4)	Total/NA	Solid	3050B	
500-94066-27	GP-14 (2-4)	Total/NA	Solid	3050B	
500-94066-28	GP-14 (8-10)	Total/NA	Solid	3050B	
500-94066-29	GP-15 (4-6)	Total/NA	Solid	3050B	
500-94066-30	GP-15 (8-10)	Total/NA	Solid	3050B	
LCS 500-282530/2-A	Lab Control Sample	Total/NA	Solid	3050B	
MB 500-282530/1-A	Method Blank	Total/NA	Solid	3050B	

Analysis Batch: 282566

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-94066-32	GP-1	Total Recoverable	Water	6020	282395
500-94066-33	GP-14	Total Recoverable	Water	6020	282395
500-94066-34	GP-15	Total Recoverable	Water	6020	282395
LCS 500-282395/2-A	Lab Control Sample	Total Recoverable	Water	6020	282395
MB 500-282395/1-A	Method Blank	Total Recoverable	Water	6020	282395

Analysis Batch: 282615

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-94066-1	GP-1 (2-4)	Total/NA	Solid	7471A	282433
500-94066-2	GP-1 (6-8)	Total/NA	Solid	7471A	282433
500-94066-4	GP-2 (4-6)	Total/NA	Solid	7471A	282433
500-94066-7	GP-3 (2-4)	Total/NA	Solid	7471A	282433
500-94066-7 DU	GP-3 (2-4)	Total/NA	Solid	7471A	282433
500-94066-7 MS	GP-3 (2-4)	Total/NA	Solid	7471A	282433
500-94066-7 MSD	GP-3 (2-4)	Total/NA	Solid	7471A	282433
500-94066-9	GP-4 (2-4)	Total/NA	Solid	7471A	282433
500-94066-11	GP-5 (2-4)	Total/NA	Solid	7471A	282433
500-94066-12	GP-5 (6-8)	Total/NA	Solid	7471A	282433
500-94066-13	GP-6 (4-6)	Total/NA	Solid	7471A	282433
500-94066-14	GP-6 (10-12)	Total/NA	Solid	7471A	282433
500-94066-16	GP-7 (4-6)	Total/NA	Solid	7471A	282433
500-94066-17	GP-7 (10-12)	Total/NA	Solid	7471A	282433
500-94066-19	GP-8 (4-6)	Total/NA	Solid	7471A	282433
500-94066-20	GP-9 (2-4)	Total/NA	Solid	7471A	282433
500-94066-21	GP-10 (2-4)	Total/NA	Solid	7471A	282433
500-94066-22	GP-10 (8-10)	Total/NA	Solid	7471A	282433
500-94066-24	GP-11 (4-6)	Total/NA	Solid	7471A	282433
500-94066-25	GP-12 (4-6)	Total/NA	Solid	7471A	282433
500-94066-26	GP-13 (2-4)	Total/NA	Solid	7471A	282433
500-94066-27	GP-14 (2-4)	Total/NA	Solid	7471A	282433
500-94066-28	GP-14 (8-10)	Total/NA	Solid	7471A	282433
500-94066-29	GP-15 (4-6)	Total/NA	Solid	7471A	282437

TestAmerica Chicago

QC Association Summary

Client: TRC Environmental Corporation.
Project/Site: Former CMC Shops Wheelhouse 232269

TestAmerica Job ID: 500-94066-1

Metals (Continued)

Analysis Batch: 282615 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-94066-30	GP-15 (8-10)	Total/NA	Solid	7471A	282437
LCS 500-282433/13-A	Lab Control Sample	Total/NA	Solid	7471A	282433
LCS 500-282437/13-A	Lab Control Sample	Total/NA	Solid	7471A	282437
MB 500-282433/12-A	Method Blank	Total/NA	Solid	7471A	282433
MB 500-282437/12-A	Method Blank	Total/NA	Solid	7471A	282437

Prep Batch: 282616

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-94066-5	GP-2 (8-10)	Total/NA	Solid	7471A	
500-94066-8	GP-3 (8-10)	Total/NA	Solid	7471A	
LCS 500-282616/13-A	Lab Control Sample	Total/NA	Solid	7471A	
MB 500-282616/12-A	Method Blank	Total/NA	Solid	7471A	

Analysis Batch: 282621

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-94066-32	GP-1	Total/NA	Water	7470A	282400
500-94066-33	GP-14	Total/NA	Water	7470A	282400
500-94066-34	GP-15	Total/NA	Water	7470A	282400
LCS 500-282400/13-A	Lab Control Sample	Total/NA	Water	7470A	282400
MB 500-282400/12-A	Method Blank	Total/NA	Water	7470A	282400

Prep Batch: 282656

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-94066-1	GP-1 (2-4)	Total/NA	Solid	3050B	
500-94066-2	GP-1 (6-8)	Total/NA	Solid	3050B	
500-94066-4	GP-2 (4-6)	Total/NA	Solid	3050B	
500-94066-5	GP-2 (8-10)	Total/NA	Solid	3050B	
500-94066-7	GP-3 (2-4)	Total/NA	Solid	3050B	
500-94066-8	GP-3 (8-10)	Total/NA	Solid	3050B	
LCS 500-282656/2-A	Lab Control Sample	Total/NA	Solid	3050B	
MB 500-282656/1-A	Method Blank	Total/NA	Solid	3050B	

Analysis Batch: 282693

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-94066-9	GP-4 (2-4)	Total/NA	Solid	6010B	282530
500-94066-9 DU	GP-4 (2-4)	Total/NA	Solid	6010B	282530
500-94066-9 MS	GP-4 (2-4)	Total/NA	Solid	6010B	282530
500-94066-9 MSD	GP-4 (2-4)	Total/NA	Solid	6010B	282530
500-94066-10	GP-4 (6-8)	Total/NA	Solid	6010B	282530
500-94066-11	GP-5 (2-4)	Total/NA	Solid	6010B	282530
500-94066-12	GP-5 (6-8)	Total/NA	Solid	6010B	282530
500-94066-13	GP-6 (4-6)	Total/NA	Solid	6010B	282530
500-94066-14	GP-6 (10-12)	Total/NA	Solid	6010B	282530
500-94066-16	GP-7 (4-6)	Total/NA	Solid	6010B	282530
500-94066-17	GP-7 (10-12)	Total/NA	Solid	6010B	282530
500-94066-19	GP-8 (4-6)	Total/NA	Solid	6010B	282530
500-94066-20	GP-9 (2-4)	Total/NA	Solid	6010B	282530
500-94066-21	GP-10 (2-4)	Total/NA	Solid	6010B	282530
500-94066-22	GP-10 (8-10)	Total/NA	Solid	6010B	282530
500-94066-24	GP-11 (4-6)	Total/NA	Solid	6010B	282530
500-94066-25	GP-12 (4-6)	Total/NA	Solid	6010B	282530

TestAmerica Chicago

QC Association Summary

Client: TRC Environmental Corporation.
Project/Site: Former CMC Shops Wheelhouse 232269

TestAmerica Job ID: 500-94066-1

Metals (Continued)

Analysis Batch: 282693 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-94066-26	GP-13 (2-4)	Total/NA	Solid	6010B	282530
500-94066-27	GP-14 (2-4)	Total/NA	Solid	6010B	282530
500-94066-28	GP-14 (8-10)	Total/NA	Solid	6010B	282530
500-94066-29	GP-15 (4-6)	Total/NA	Solid	6010B	282530
500-94066-30	GP-15 (8-10)	Total/NA	Solid	6010B	282530
LCS 500-282530/2-A	Lab Control Sample	Total/NA	Solid	6010B	282530
MB 500-282530/1-A	Method Blank	Total/NA	Solid	6010B	282530

Analysis Batch: 282726

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-94066-5	GP-2 (8-10)	Total/NA	Solid	7471A	282616
500-94066-8	GP-3 (8-10)	Total/NA	Solid	7471A	282616
LCS 500-282616/13-A	Lab Control Sample	Total/NA	Solid	7471A	282616
MB 500-282616/12-A	Method Blank	Total/NA	Solid	7471A	282616

Prep Batch: 282740

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-94066-10	GP-4 (6-8)	Total/NA	Solid	7471A	
500-94066-10 DU	GP-4 (6-8)	Total/NA	Solid	7471A	
500-94066-10 MS	GP-4 (6-8)	Total/NA	Solid	7471A	
500-94066-10 MSD	GP-4 (6-8)	Total/NA	Solid	7471A	
LCS 500-282740/13-A	Lab Control Sample	Total/NA	Solid	7471A	
MB 500-282740/12-A	Method Blank	Total/NA	Solid	7471A	

Analysis Batch: 282874

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-94066-1	GP-1 (2-4)	Total/NA	Solid	6010B	282656
500-94066-2	GP-1 (6-8)	Total/NA	Solid	6010B	282656
500-94066-4	GP-2 (4-6)	Total/NA	Solid	6010B	282656
500-94066-5	GP-2 (8-10)	Total/NA	Solid	6010B	282656
500-94066-7	GP-3 (2-4)	Total/NA	Solid	6010B	282656
500-94066-8	GP-3 (8-10)	Total/NA	Solid	6010B	282656
LCS 500-282656/2-A	Lab Control Sample	Total/NA	Solid	6010B	282656
MB 500-282656/1-A	Method Blank	Total/NA	Solid	6010B	282656

Analysis Batch: 282910

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-94066-10	GP-4 (6-8)	Total/NA	Solid	7471A	282740
500-94066-10 DU	GP-4 (6-8)	Total/NA	Solid	7471A	282740
500-94066-10 MS	GP-4 (6-8)	Total/NA	Solid	7471A	282740
500-94066-10 MSD	GP-4 (6-8)	Total/NA	Solid	7471A	282740
LCS 500-282740/13-A	Lab Control Sample	Total/NA	Solid	7471A	282740
MB 500-282740/12-A	Method Blank	Total/NA	Solid	7471A	282740

General Chemistry

Analysis Batch: 282267

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-94066-1	GP-1 (2-4)	Total/NA	Solid	Moisture	
500-94066-1 DU	GP-1 (2-4)	Total/NA	Solid	Moisture	

TestAmerica Chicago

QC Association Summary

Client: TRC Environmental Corporation.
Project/Site: Former CMC Shops Wheelhouse 232269

TestAmerica Job ID: 500-94066-1

General Chemistry (Continued)

Analysis Batch: 282267 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-94066-2	GP-1 (6-8)	Total/NA	Solid	Moisture	
500-94066-3	GP-1 (14-16)	Total/NA	Solid	Moisture	
500-94066-4	GP-2 (4-6)	Total/NA	Solid	Moisture	
500-94066-6	GP-2 (14-16)	Total/NA	Solid	Moisture	
500-94066-7	GP-3 (2-4)	Total/NA	Solid	Moisture	
500-94066-9	GP-4 (2-4)	Total/NA	Solid	Moisture	
500-94066-10	GP-4 (6-8)	Total/NA	Solid	Moisture	
500-94066-11	GP-5 (2-4)	Total/NA	Solid	Moisture	
500-94066-12	GP-5 (6-8)	Total/NA	Solid	Moisture	
500-94066-13	GP-6 (4-6)	Total/NA	Solid	Moisture	
500-94066-14	GP-6 (10-12)	Total/NA	Solid	Moisture	
500-94066-15	GP-6 (14-16)	Total/NA	Solid	Moisture	
500-94066-16	GP-7 (4-6)	Total/NA	Solid	Moisture	
500-94066-17	GP-7 (10-12)	Total/NA	Solid	Moisture	
500-94066-18	GP-7 (14-16)	Total/NA	Solid	Moisture	
500-94066-19	GP-8 (4-6)	Total/NA	Solid	Moisture	
500-94066-20	GP-9 (2-4)	Total/NA	Solid	Moisture	
500-94066-21	GP-10 (2-4)	Total/NA	Solid	Moisture	
500-94066-22	GP-10 (8-10)	Total/NA	Solid	Moisture	
500-94066-23	GP-10 (14-16)	Total/NA	Solid	Moisture	
500-94066-24	GP-11 (4-6)	Total/NA	Solid	Moisture	
500-94066-25	GP-12 (4-6)	Total/NA	Solid	Moisture	
500-94066-26	GP-13 (2-4)	Total/NA	Solid	Moisture	
500-94066-27	GP-14 (2-4)	Total/NA	Solid	Moisture	
500-94066-28	GP-14 (8-10)	Total/NA	Solid	Moisture	
500-94066-29	GP-15 (4-6)	Total/NA	Solid	Moisture	
500-94066-30	GP-15 (8-10)	Total/NA	Solid	Moisture	
500-94066-30 DU	GP-15 (8-10)	Total/NA	Solid	Moisture	
500-94066-31	GP-15 (14-16)	Total/NA	Solid	Moisture	

Analysis Batch: 282565

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-94066-5	GP-2 (8-10)	Total/NA	Solid	Moisture	
500-94066-5 DU	GP-2 (8-10)	Total/NA	Solid	Moisture	
500-94066-8	GP-3 (8-10)	Total/NA	Solid	Moisture	

Surrogate Summary

Client: TRC Environmental Corporation.
Project/Site: Former CMC Shops Wheelhouse 232269

TestAmerica Job ID: 500-94066-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		12DCE (75-125)	BFB (75-120)	DBFM (75-120)	TOL (75-120)
500-94066-1	GP-1 (2-4)	102	106	99	100
500-94066-2	GP-1 (6-8)	103	100	99	102
500-94066-3	GP-1 (14-16)	103	103	99	99
500-94066-4	GP-2 (4-6)	103	104	99	100
500-94066-5	GP-2 (8-10)	104	99	99	100
500-94066-6	GP-2 (14-16)	107	103	101	101
500-94066-7	GP-3 (2-4)	107	108	100	100
500-94066-8	GP-3 (8-10)	106	104	101	99
500-94066-9	GP-4 (2-4)	105	104	100	101
500-94066-10	GP-4 (6-8)	112	105	105	99
500-94066-11	GP-5 (2-4)	113	106	106	97
500-94066-12	GP-5 (6-8)	111	105	102	98
500-94066-13	GP-6 (4-6)	107	104	99	98
500-94066-14	GP-6 (10-12)	108	108	99	99
500-94066-15	GP-6 (14-16)	110	106	102	101
500-94066-16	GP-7 (4-6)	110	104	101	99
500-94066-17	GP-7 (10-12)	109	107	104	98
500-94066-18	GP-7 (14-16)	117	106	106	97
500-94066-19	GP-8 (4-6)	105	105	103	99
500-94066-20	GP-9 (2-4)	103	103	101	100
500-94066-21	GP-10 (2-4)	106	104	99	100
500-94066-22	GP-10 (8-10)	105	101	102	100
500-94066-23	GP-10 (14-16)	106	101	103	99
500-94066-24	GP-11 (4-6)	106	106	103	98
500-94066-25	GP-12 (4-6)	105	103	102	100
500-94066-26	GP-13 (2-4)	108	105	102	100
500-94066-27	GP-14 (2-4)	109	104	101	100
500-94066-28	GP-14 (8-10)	103	106	99	99
500-94066-29	GP-15 (4-6)	107	103	104	101
500-94066-30	GP-15 (8-10)	107	104	103	99
500-94066-31	GP-15 (14-16)	104	108	102	97
500-94066-35	MeoH Blank	104	105	103	98
LB3 500-282506/21-A	Method Blank	98	105	97	101
LB3 500-282507/13-A	Method Blank	99	105	100	99
LCS 500-282506/22-A	Lab Control Sample	100	100	104	105
LCS 500-282507/14-A	Lab Control Sample	98	103	103	103
LCS 500-283042/4	Lab Control Sample	104	104	103	104
LCS 500-283234/4	Lab Control Sample	101	97	105	104
MB 500-283042/6	Method Blank	109	104	100	101
MB 500-283234/6	Method Blank	102	105	101	100

Surrogate Legend

12DCE = 1,2-Dichloroethane-d4 (Surr)

BFB = 4-Bromofluorobenzene (Surr)

DBFM = Dibromofluoromethane

TOL = Toluene-d8 (Surr)

TestAmerica Chicago

Surrogate Summary

Client: TRC Environmental Corporation.
Project/Site: Former CMC Shops Wheelhouse 232269

TestAmerica Job ID: 500-94066-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		12DCE (75-125)	BFB (75-120)	DBFM (75-120)	TOL (75-120)
500-94066-32	GP-1	103	100	102	102
500-94066-32 MS	GP-1	101	106	105	102
500-94066-32 MSD	GP-1	103	103	106	100
500-94066-33	GP-14	100	102	98	99
500-94066-34	GP-15	102	103	99	100
LCS 500-283235/4	Lab Control Sample	101	97	105	104
MB 500-283235/6	Method Blank	102	105	101	100
Surrogate Legend					
12DCE = 1,2-Dichloroethane-d4 (Surr)					
BFB = 4-Bromofluorobenzene (Surr)					
DBFM = Dibromofluoromethane					
TOL = Toluene-d8 (Surr)					

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)		
		FBP (25-119)	NBZ (25-115)	TPH (36-134)
500-94066-1	GP-1 (2-4)	74	69	98
500-94066-1 MS	GP-1 (2-4)	54	41	122
500-94066-1 MSD	GP-1 (2-4)	50	40	120
500-94066-2	GP-1 (6-8)	53	43	73
500-94066-4	GP-2 (4-6)	53	39	105
500-94066-5	GP-2 (8-10)	50	39	82
500-94066-7	GP-3 (2-4)	61	50	133
500-94066-8	GP-3 (8-10)	51	32	106
500-94066-8 - DL	GP-3 (8-10)	71	44	88
500-94066-9	GP-4 (2-4)	46	38	81
500-94066-10	GP-4 (6-8)	68	53	112
500-94066-10 - DL	GP-4 (6-8)	83	49	96
500-94066-11	GP-5 (2-4)	56	45	69
500-94066-12	GP-5 (6-8)	53	32	64
500-94066-13	GP-6 (4-6)	34	23 X	111
500-94066-14	GP-6 (10-12)	38	26	90
500-94066-16	GP-7 (4-6)	50	42	70
500-94066-17	GP-7 (10-12)	51	40	134
500-94066-19	GP-8 (4-6)	77	44	97
500-94066-20	GP-9 (2-4)	64	44	82
500-94066-21	GP-10 (2-4)	62	43	134
500-94066-22	GP-10 (8-10)	90	85	87
500-94066-24	GP-11 (4-6)	46	27	101
500-94066-25	GP-12 (4-6)	53	34	64
500-94066-26	GP-13 (2-4)	59	33	97
500-94066-27	GP-14 (2-4)	53	39	127
500-94066-28	GP-14 (8-10)	35	25	86
500-94066-29	GP-15 (4-6)	63	40	84
500-94066-30	GP-15 (8-10)	54	46	78

TestAmerica Chicago

Surrogate Summary

Client: TRC Environmental Corporation.
Project/Site: Former CMC Shops Wheelhouse 232269

TestAmerica Job ID: 500-94066-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)		
		FBP (25-119)	NBZ (25-115)	TPH (36-134)
LCS 500-282339/2-A	Lab Control Sample	103	90	114
LCS 500-282689/2-A	Lab Control Sample	101	102	116
MB 500-282339/1-A	Method Blank	98	88	105
MB 500-282689/1-A	Method Blank	101	101	116
Surrogate Legend				
FBP = 2-Fluorobiphenyl				
NBZ = Nitrobenzene-d5 (Surr)				
TPH = Terphenyl-d14 (Surr)				

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)		
		FBP (41-132)	NBZ (47-134)	TPH (59-150)
500-94066-32	GP-1	52	67	80
500-94066-33	GP-14	55	65	83
500-94066-34	GP-15	54	63	75
Surrogate Legend				
FBP = 2-Fluorobiphenyl				
NBZ = Nitrobenzene-d5 (Surr)				
TPH = Terphenyl-d14 (Surr)				

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)	
		TCX1 (50-116)	DCB1 (48-142)
500-94066-1	GP-1 (2-4)	84	89
500-94066-1 MS	GP-1 (2-4)	81	88
500-94066-1 MSD	GP-1 (2-4)	82	87
500-94066-2	GP-1 (6-8)	89	76
500-94066-4	GP-2 (4-6)	81	69
500-94066-7	GP-3 (2-4)	87	93
500-94066-9	GP-4 (2-4)	85	88
500-94066-10	GP-4 (6-8)	65	85
500-94066-11	GP-5 (2-4)	82	70
500-94066-12	GP-5 (6-8)	67	57
500-94066-13	GP-6 (4-6)	77	71
500-94066-14	GP-6 (10-12)	80	74
500-94066-16	GP-7 (4-6)	82	83
500-94066-17	GP-7 (10-12)	83	85
500-94066-19	GP-8 (4-6)	83	75
500-94066-20	GP-9 (2-4)	81	79
500-94066-21	GP-10 (2-4)	74	72
500-94066-22	GP-10 (8-10)	68	70
500-94066-24	GP-11 (4-6)	78	65

TestAmerica Chicago

Surrogate Summary

Client: TRC Environmental Corporation.
Project/Site: Former CMC Shops Wheelhouse 232269

TestAmerica Job ID: 500-94066-1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	TCX1 (50-116)	DCB1 (48-142)
500-94066-25	GP-12 (4-6)	82	73
500-94066-26	GP-13 (2-4)	75	88
500-94066-27	GP-14 (2-4)	82	74
LCS 500-282335/2-A	Lab Control Sample	85	88
MB 500-282335/1-A	Method Blank	86	93
Surrogate Legend			
TCX = Tetrachloro-m-xylene			
DCB = DCB Decachlorobiphenyl			

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	TCX2 (50-116)	DCB2 (48-142)
500-94066-5	GP-2 (8-10)	359 X	49
500-94066-8	GP-3 (8-10)	44 X	63
500-94066-28	GP-14 (8-10)	55	72
500-94066-29	GP-15 (4-6)	26 X	65
500-94066-30	GP-15 (8-10)	56	74
LCS 500-282643/2-A	Lab Control Sample	65	69
MB 500-282643/1-A	Method Blank	68	74
Surrogate Legend			
TCX = Tetrachloro-m-xylene			
DCB = DCB Decachlorobiphenyl			

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	TCX2 (50-120)	DCB2 (29-126)
500-94066-32	GP-1	804 X	37
500-94066-33	GP-14	60	52
500-94066-34	GP-15	65	60
LCS 500-282371/2-A	Lab Control Sample	66	81
LCSD 500-282371/3-A	Lab Control Sample Dup	60	92
MB 500-282371/1-A	Method Blank	66	98
Surrogate Legend			
TCX = Tetrachloro-m-xylene			
DCB = DCB Decachlorobiphenyl			

QC Sample Results

Client: TRC Environmental Corporation.
Project/Site: Former CMC Shops Wheelhouse 232269

TestAmerica Job ID: 500-94066-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: LB3 500-282506/21-A

Matrix: Solid

Analysis Batch: 283234

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 282506

Analyte	LB3 Result	LB3 Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<17		100	17	ug/Kg		04/05/15 09:00	04/10/15 10:29	50
1,1,1-Trichloroethane	<10		50	10	ug/Kg		04/05/15 09:00	04/10/15 10:29	50
1,1,2,2-Tetrachloroethane	<12		50	12	ug/Kg		04/05/15 09:00	04/10/15 10:29	50
1,1,2-Trichloroethane	<14		50	14	ug/Kg		04/05/15 09:00	04/10/15 10:29	50
1,1-Dichloroethane	<9.3		50	9.3	ug/Kg		04/05/15 09:00	04/10/15 10:29	50
1,1-Dichloroethene	<15		50	15	ug/Kg		04/05/15 09:00	04/10/15 10:29	50
1,1-Dichloropropene	<17		50	17	ug/Kg		04/05/15 09:00	04/10/15 10:29	50
1,2,3-Trichlorobenzene	<18		100	18	ug/Kg		04/05/15 09:00	04/10/15 10:29	50
1,2,3-Trichloropropane	<29		100	29	ug/Kg		04/05/15 09:00	04/10/15 10:29	50
1,2,4-Trichlorobenzene	<19		100	19	ug/Kg		04/05/15 09:00	04/10/15 10:29	50
1,2,4-Trimethylbenzene	<11		100	11	ug/Kg		04/05/15 09:00	04/10/15 10:29	50
1,2-Dibromo-3-Chloropropane	<44		100	44	ug/Kg		04/05/15 09:00	04/10/15 10:29	50
1,2-Dibromoethane	<16		100	16	ug/Kg		04/05/15 09:00	04/10/15 10:29	50
1,2-Dichlorobenzene	<10		100	10	ug/Kg		04/05/15 09:00	04/10/15 10:29	50
1,2-Dichloroethane	<14		50	14	ug/Kg		04/05/15 09:00	04/10/15 10:29	50
1,2-Dichloropropane	<9.8		50	9.8	ug/Kg		04/05/15 09:00	04/10/15 10:29	50
1,3,5-Trimethylbenzene	<10		100	10	ug/Kg		04/05/15 09:00	04/10/15 10:29	50
1,3-Dichlorobenzene	<13		100	13	ug/Kg		04/05/15 09:00	04/10/15 10:29	50
1,3-Dichloropropane	<6.7		50	6.7	ug/Kg		04/05/15 09:00	04/10/15 10:29	50
1,4-Dichlorobenzene	<8.7		100	8.7	ug/Kg		04/05/15 09:00	04/10/15 10:29	50
2,2-Dichloropropane	<16		50	16	ug/Kg		04/05/15 09:00	04/10/15 10:29	50
2-Chlorotoluene	<10		50	10	ug/Kg		04/05/15 09:00	04/10/15 10:29	50
4-Chlorotoluene	<9.9		50	9.9	ug/Kg		04/05/15 09:00	04/10/15 10:29	50
Benzene	<3.7		13	3.7	ug/Kg		04/05/15 09:00	04/10/15 10:29	50
Bromobenzene	<21		100	21	ug/Kg		04/05/15 09:00	04/10/15 10:29	50
Bromochloromethane	<19		100	19	ug/Kg		04/05/15 09:00	04/10/15 10:29	50
Bromodichloromethane	<17		100	17	ug/Kg		04/05/15 09:00	04/10/15 10:29	50
Bromoform	<22		100	22	ug/Kg		04/05/15 09:00	04/10/15 10:29	50
Bromomethane	<34		100	34	ug/Kg		04/05/15 09:00	04/10/15 10:29	50
Carbon tetrachloride	<13		50	13	ug/Kg		04/05/15 09:00	04/10/15 10:29	50
Chlorobenzene	<7.2		50	7.2	ug/Kg		04/05/15 09:00	04/10/15 10:29	50
Chloroethane	<22		100	22	ug/Kg		04/05/15 09:00	04/10/15 10:29	50
Chloroform	<10		50	10	ug/Kg		04/05/15 09:00	04/10/15 10:29	50
Chloromethane	<23		100	23	ug/Kg		04/05/15 09:00	04/10/15 10:29	50
cis-1,2-Dichloroethene	<6.2		50	6.2	ug/Kg		04/05/15 09:00	04/10/15 10:29	50
cis-1,3-Dichloropropene	<8.9		50	8.9	ug/Kg		04/05/15 09:00	04/10/15 10:29	50
Dibromochloromethane	<17		100	17	ug/Kg		04/05/15 09:00	04/10/15 10:29	50
Dibromomethane	<24		100	24	ug/Kg		04/05/15 09:00	04/10/15 10:29	50
Dichlorodifluoromethane	<26		100	26	ug/Kg		04/05/15 09:00	04/10/15 10:29	50
Ethylbenzene	<6.3		13	6.3	ug/Kg		04/05/15 09:00	04/10/15 10:29	50
Hexachlorobutadiene	<17		100	17	ug/Kg		04/05/15 09:00	04/10/15 10:29	50
Isopropyl ether	<7.4		100	7.4	ug/Kg		04/05/15 09:00	04/10/15 10:29	50
Isopropylbenzene	<13		100	13	ug/Kg		04/05/15 09:00	04/10/15 10:29	50
Methyl tert-butyl ether	<22		100	22	ug/Kg		04/05/15 09:00	04/10/15 10:29	50
Methylene Chloride	<34		250	34	ug/Kg		04/05/15 09:00	04/10/15 10:29	50
Naphthalene	<25		100	25	ug/Kg		04/05/15 09:00	04/10/15 10:29	50
n-Butylbenzene	<6.5		50	6.5	ug/Kg		04/05/15 09:00	04/10/15 10:29	50
N-Propylbenzene	<8.8		100	8.8	ug/Kg		04/05/15 09:00	04/10/15 10:29	50

TestAmerica Chicago

QC Sample Results

Client: TRC Environmental Corporation.
Project/Site: Former CMC Shops Wheelhouse 232269

TestAmerica Job ID: 500-94066-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LB3 500-282506/21-A

Matrix: Solid

Analysis Batch: 283234

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 282506

Analyte	LB3 Result	LB3 Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
p-Isopropyltoluene	<9.3		100	9.3	ug/Kg		04/05/15 09:00	04/10/15 10:29	50
sec-Butylbenzene	<7.7		50	7.7	ug/Kg		04/05/15 09:00	04/10/15 10:29	50
Styrene	<4.9		50	4.9	ug/Kg		04/05/15 09:00	04/10/15 10:29	50
tert-Butylbenzene	<6.8		50	6.8	ug/Kg		04/05/15 09:00	04/10/15 10:29	50
Tetrachloroethene	<8.4		50	8.4	ug/Kg		04/05/15 09:00	04/10/15 10:29	50
Toluene	<5.8		13	5.8	ug/Kg		04/05/15 09:00	04/10/15 10:29	50
trans-1,2-Dichloroethene	<13		50	13	ug/Kg		04/05/15 09:00	04/10/15 10:29	50
trans-1,3-Dichloropropene	<10		50	10	ug/Kg		04/05/15 09:00	04/10/15 10:29	50
Trichloroethene	<9.3		25	9.3	ug/Kg		04/05/15 09:00	04/10/15 10:29	50
Trichlorofluoromethane	<21		100	21	ug/Kg		04/05/15 09:00	04/10/15 10:29	50
Vinyl chloride	<5.2		13	5.2	ug/Kg		04/05/15 09:00	04/10/15 10:29	50
Xylenes, Total	<3.4		25	3.4	ug/Kg		04/05/15 09:00	04/10/15 10:29	50

Surrogate	LB3 %Recovery	LB3 Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	98		75 - 125	04/05/15 09:00	04/10/15 10:29	50
4-Bromofluorobenzene (Surr)	105		75 - 120	04/05/15 09:00	04/10/15 10:29	50
Dibromofluoromethane	97		75 - 120	04/05/15 09:00	04/10/15 10:29	50
Toluene-d8 (Surr)	101		75 - 120	04/05/15 09:00	04/10/15 10:29	50

Lab Sample ID: LCS 500-282506/22-A

Matrix: Solid

Analysis Batch: 283234

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 282506

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	2500	2780		ug/Kg		111	75 - 122
1,1,1-Trichloroethane	2500	2620		ug/Kg		105	72 - 130
1,1,2,2-Tetrachloroethane	2500	2570		ug/Kg		103	72 - 130
1,1,2-Trichloroethane	2500	2820		ug/Kg		113	75 - 120
1,1-Dichloroethane	2500	2610		ug/Kg		104	75 - 120
1,1-Dichloroethene	2500	2570		ug/Kg		103	69 - 120
1,1-Dichloropropene	2500	2710		ug/Kg		108	75 - 130
1,2,3-Trichlorobenzene	2500	2900		ug/Kg		116	69 - 131
1,2,3-Trichloropropane	2500	2760		ug/Kg		110	65 - 132
1,2,4-Trichlorobenzene	2500	2900		ug/Kg		116	73 - 130
1,2,4-Trimethylbenzene	2500	2720		ug/Kg		109	75 - 121
1,2-Dibromo-3-Chloropropane	2500	2700		ug/Kg		108	62 - 130
1,2-Dibromoethane	2500	2700		ug/Kg		108	78 - 122
1,2-Dichlorobenzene	2500	2710		ug/Kg		108	75 - 120
1,2-Dichloroethane	2500	2580		ug/Kg		103	69 - 130
1,2-Dichloropropane	2500	2540		ug/Kg		102	75 - 120
1,3,5-Trimethylbenzene	2500	2680		ug/Kg		107	75 - 121
1,3-Dichlorobenzene	2500	2700		ug/Kg		108	75 - 120
1,3-Dichloropropane	2500	2570		ug/Kg		103	77 - 124
1,4-Dichlorobenzene	2500	2680		ug/Kg		107	75 - 120
2,2-Dichloropropane	2500	2630		ug/Kg		105	65 - 132
2-Chlorotoluene	2500	2600		ug/Kg		104	75 - 120
4-Chlorotoluene	2500	2620		ug/Kg		105	75 - 120
Benzene	2500	2640		ug/Kg		106	75 - 120

TestAmerica Chicago

QC Sample Results

Client: TRC Environmental Corporation.
Project/Site: Former CMC Shops Wheelhouse 232269

TestAmerica Job ID: 500-94066-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 500-282506/22-A

Matrix: Solid

Analysis Batch: 283234

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 282506

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Bromobenzene	2500	2590		ug/Kg		104	75 - 120
Bromochloromethane	2500	2660		ug/Kg		107	76 - 120
Bromodichloromethane	2500	2670		ug/Kg		107	77 - 121
Bromoform	2500	2540		ug/Kg		101	68 - 126
Bromomethane	2500	2010		ug/Kg		80	45 - 169
Carbon tetrachloride	2500	2760		ug/Kg		110	70 - 130
Chlorobenzene	2500	2670		ug/Kg		107	75 - 120
Chloroethane	2500	1910		ug/Kg		77	58 - 147
Chloroform	2500	2580		ug/Kg		103	76 - 120
Chloromethane	2500	2040		ug/Kg		82	63 - 133
cis-1,2-Dichloroethene	2500	2650		ug/Kg		106	75 - 120
cis-1,3-Dichloropropene	2500	2550		ug/Kg		102	78 - 130
Dibromochloromethane	2500	2440		ug/Kg		97	71 - 126
Dibromomethane	2500	2610		ug/Kg		104	75 - 120
Dichlorodifluoromethane	2500	1500		ug/Kg		60	41 - 146
Ethylbenzene	2500	2730		ug/Kg		109	75 - 120
Hexachlorobutadiene	2500	2930		ug/Kg		117	71 - 131
Isopropylbenzene	2500	2660		ug/Kg		106	75 - 121
Methyl tert-butyl ether	2500	2540		ug/Kg		102	75 - 130
Methylene Chloride	2500	2690		ug/Kg		108	73 - 130
Naphthalene	2500	2830		ug/Kg		113	69 - 135
n-Butylbenzene	2500	2860		ug/Kg		114	75 - 121
N-Propylbenzene	2500	2710		ug/Kg		108	75 - 120
p-Isopropyltoluene	2500	2740		ug/Kg		110	75 - 121
sec-Butylbenzene	2500	2740		ug/Kg		109	75 - 120
Styrene	2500	2730		ug/Kg		109	75 - 120
tert-Butylbenzene	2500	2720		ug/Kg		109	75 - 123
Tetrachloroethene	2500	2930		ug/Kg		117	75 - 120
Toluene	2500	2670		ug/Kg		107	75 - 120
trans-1,2-Dichloroethene	2500	2650		ug/Kg		106	77 - 120
trans-1,3-Dichloropropene	2500	2720		ug/Kg		109	74 - 130
Trichloroethene	2500	2700		ug/Kg		108	75 - 120
Trichlorofluoromethane	2500	2260		ug/Kg		91	71 - 130
Vinyl chloride	2500	2080		ug/Kg		83	72 - 123
Xylenes, Total	5000	5430		ug/Kg		109	75 - 120

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	100		75 - 125
4-Bromofluorobenzene (Surr)	100		75 - 120
Dibromofluoromethane	104		75 - 120
Toluene-d8 (Surr)	105		75 - 120

Lab Sample ID: LB3 500-282507/13-A

Matrix: Solid

Analysis Batch: 283042

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 282507

Analyte	LB3 Result	LB3 Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<17		100	17	ug/Kg		04/05/15 09:00	04/09/15 11:45	50

TestAmerica Chicago

QC Sample Results

Client: TRC Environmental Corporation.
Project/Site: Former CMC Shops Wheelhouse 232269

TestAmerica Job ID: 500-94066-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LB3 500-282507/13-A

Matrix: Solid

Analysis Batch: 283042

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 282507

Analyte	LB3 Result	LB3 Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<10		50	10	ug/Kg		04/05/15 09:00	04/09/15 11:45	50
1,1,1,2,2-Tetrachloroethane	<12		50	12	ug/Kg		04/05/15 09:00	04/09/15 11:45	50
1,1,1,2-Trichloroethane	<14		50	14	ug/Kg		04/05/15 09:00	04/09/15 11:45	50
1,1-Dichloroethane	<9.3		50	9.3	ug/Kg		04/05/15 09:00	04/09/15 11:45	50
1,1-Dichloroethene	<15		50	15	ug/Kg		04/05/15 09:00	04/09/15 11:45	50
1,1-Dichloropropene	<17		50	17	ug/Kg		04/05/15 09:00	04/09/15 11:45	50
1,2,3-Trichlorobenzene	<18		100	18	ug/Kg		04/05/15 09:00	04/09/15 11:45	50
1,2,3-Trichloropropane	<29		100	29	ug/Kg		04/05/15 09:00	04/09/15 11:45	50
1,2,4-Trichlorobenzene	<19		100	19	ug/Kg		04/05/15 09:00	04/09/15 11:45	50
1,2,4-Trimethylbenzene	<11		100	11	ug/Kg		04/05/15 09:00	04/09/15 11:45	50
1,2-Dibromo-3-Chloropropane	<44		100	44	ug/Kg		04/05/15 09:00	04/09/15 11:45	50
1,2-Dibromoethane	<16		100	16	ug/Kg		04/05/15 09:00	04/09/15 11:45	50
1,2-Dichlorobenzene	<10		100	10	ug/Kg		04/05/15 09:00	04/09/15 11:45	50
1,2-Dichloroethane	<14		50	14	ug/Kg		04/05/15 09:00	04/09/15 11:45	50
1,2-Dichloropropane	<9.8		50	9.8	ug/Kg		04/05/15 09:00	04/09/15 11:45	50
1,3,5-Trimethylbenzene	<10		100	10	ug/Kg		04/05/15 09:00	04/09/15 11:45	50
1,3-Dichlorobenzene	<13		100	13	ug/Kg		04/05/15 09:00	04/09/15 11:45	50
1,3-Dichloropropane	<6.7		50	6.7	ug/Kg		04/05/15 09:00	04/09/15 11:45	50
1,4-Dichlorobenzene	<8.7		100	8.7	ug/Kg		04/05/15 09:00	04/09/15 11:45	50
2,2-Dichloropropane	<16		50	16	ug/Kg		04/05/15 09:00	04/09/15 11:45	50
2-Chlorotoluene	<10		50	10	ug/Kg		04/05/15 09:00	04/09/15 11:45	50
4-Chlorotoluene	<9.9		50	9.9	ug/Kg		04/05/15 09:00	04/09/15 11:45	50
Benzene	<3.7		13	3.7	ug/Kg		04/05/15 09:00	04/09/15 11:45	50
Bromobenzene	<21		100	21	ug/Kg		04/05/15 09:00	04/09/15 11:45	50
Bromochloromethane	<19		100	19	ug/Kg		04/05/15 09:00	04/09/15 11:45	50
Bromodichloromethane	<17		100	17	ug/Kg		04/05/15 09:00	04/09/15 11:45	50
Bromoform	<22		100	22	ug/Kg		04/05/15 09:00	04/09/15 11:45	50
Bromomethane	<34		100	34	ug/Kg		04/05/15 09:00	04/09/15 11:45	50
Carbon tetrachloride	<13		50	13	ug/Kg		04/05/15 09:00	04/09/15 11:45	50
Chlorobenzene	<7.2		50	7.2	ug/Kg		04/05/15 09:00	04/09/15 11:45	50
Chloroethane	<22		100	22	ug/Kg		04/05/15 09:00	04/09/15 11:45	50
Chloroform	<10		50	10	ug/Kg		04/05/15 09:00	04/09/15 11:45	50
Chloromethane	<23		100	23	ug/Kg		04/05/15 09:00	04/09/15 11:45	50
cis-1,2-Dichloroethene	<6.2		50	6.2	ug/Kg		04/05/15 09:00	04/09/15 11:45	50
cis-1,3-Dichloropropene	<8.9		50	8.9	ug/Kg		04/05/15 09:00	04/09/15 11:45	50
Dibromochloromethane	<17		100	17	ug/Kg		04/05/15 09:00	04/09/15 11:45	50
Dibromomethane	<24		100	24	ug/Kg		04/05/15 09:00	04/09/15 11:45	50
Dichlorodifluoromethane	<26		100	26	ug/Kg		04/05/15 09:00	04/09/15 11:45	50
Ethylbenzene	<6.3		13	6.3	ug/Kg		04/05/15 09:00	04/09/15 11:45	50
Hexachlorobutadiene	<17		100	17	ug/Kg		04/05/15 09:00	04/09/15 11:45	50
Isopropyl ether	<7.4		100	7.4	ug/Kg		04/05/15 09:00	04/09/15 11:45	50
Isopropylbenzene	<13		100	13	ug/Kg		04/05/15 09:00	04/09/15 11:45	50
Methyl tert-butyl ether	<22		100	22	ug/Kg		04/05/15 09:00	04/09/15 11:45	50
Methylene Chloride	<34		250	34	ug/Kg		04/05/15 09:00	04/09/15 11:45	50
Naphthalene	<25		100	25	ug/Kg		04/05/15 09:00	04/09/15 11:45	50
n-Butylbenzene	<6.5		50	6.5	ug/Kg		04/05/15 09:00	04/09/15 11:45	50
N-Propylbenzene	<8.8		100	8.8	ug/Kg		04/05/15 09:00	04/09/15 11:45	50
p-Isopropyltoluene	<9.3		100	9.3	ug/Kg		04/05/15 09:00	04/09/15 11:45	50

TestAmerica Chicago

QC Sample Results

Client: TRC Environmental Corporation.
Project/Site: Former CMC Shops Wheelhouse 232269

TestAmerica Job ID: 500-94066-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LB3 500-282507/13-A

Matrix: Solid

Analysis Batch: 283042

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 282507

Analyte	LB3 Result	LB3 Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	<7.7		50	7.7	ug/Kg		04/05/15 09:00	04/09/15 11:45	50
Styrene	<4.9		50	4.9	ug/Kg		04/05/15 09:00	04/09/15 11:45	50
tert-Butylbenzene	<6.8		50	6.8	ug/Kg		04/05/15 09:00	04/09/15 11:45	50
Tetrachloroethene	<8.4		50	8.4	ug/Kg		04/05/15 09:00	04/09/15 11:45	50
Toluene	<5.8		13	5.8	ug/Kg		04/05/15 09:00	04/09/15 11:45	50
trans-1,2-Dichloroethene	<13		50	13	ug/Kg		04/05/15 09:00	04/09/15 11:45	50
trans-1,3-Dichloropropene	<10		50	10	ug/Kg		04/05/15 09:00	04/09/15 11:45	50
Trichloroethene	<9.3		25	9.3	ug/Kg		04/05/15 09:00	04/09/15 11:45	50
Trichlorofluoromethane	<21		100	21	ug/Kg		04/05/15 09:00	04/09/15 11:45	50
Vinyl chloride	<5.2		13	5.2	ug/Kg		04/05/15 09:00	04/09/15 11:45	50
Xylenes, Total	<3.4		25	3.4	ug/Kg		04/05/15 09:00	04/09/15 11:45	50

Surrogate	LB3 %Recovery	LB3 Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	99		75 - 125	04/05/15 09:00	04/09/15 11:45	50
4-Bromofluorobenzene (Surr)	105		75 - 120	04/05/15 09:00	04/09/15 11:45	50
Dibromofluoromethane	100		75 - 120	04/05/15 09:00	04/09/15 11:45	50
Toluene-d8 (Surr)	99		75 - 120	04/05/15 09:00	04/09/15 11:45	50

Lab Sample ID: LCS 500-282507/14-A

Matrix: Solid

Analysis Batch: 283042

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 282507

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	2500	2750		ug/Kg		110	75 - 122
1,1,1-Trichloroethane	2500	2690		ug/Kg		108	72 - 130
1,1,2,2-Tetrachloroethane	2500	2680		ug/Kg		107	72 - 130
1,1,2-Trichloroethane	2500	2870		ug/Kg		115	75 - 120
1,1-Dichloroethane	2500	2640		ug/Kg		106	75 - 120
1,1-Dichloroethene	2500	2630		ug/Kg		105	69 - 120
1,1-Dichloropropene	2500	2770		ug/Kg		111	75 - 130
1,2,3-Trichlorobenzene	2500	3060		ug/Kg		123	69 - 131
1,2,3-Trichloropropane	2500	2880		ug/Kg		115	65 - 132
1,2,4-Trichlorobenzene	2500	3080		ug/Kg		123	73 - 130
1,2,4-Trimethylbenzene	2500	2680		ug/Kg		107	75 - 121
1,2-Dibromo-3-Chloropropane	2500	3140		ug/Kg		126	62 - 130
1,2-Dibromoethane	2500	2860		ug/Kg		114	78 - 122
1,2-Dichlorobenzene	2500	2670		ug/Kg		107	75 - 120
1,2-Dichloroethane	2500	2730		ug/Kg		109	69 - 130
1,2-Dichloropropane	2500	2700		ug/Kg		108	75 - 120
1,3,5-Trimethylbenzene	2500	2670		ug/Kg		107	75 - 121
1,3-Dichlorobenzene	2500	2700		ug/Kg		108	75 - 120
1,3-Dichloropropane	2500	2720		ug/Kg		109	77 - 124
1,4-Dichlorobenzene	2500	2690		ug/Kg		108	75 - 120
2,2-Dichloropropane	2500	2600		ug/Kg		104	65 - 132
2-Chlorotoluene	2500	2600		ug/Kg		104	75 - 120
4-Chlorotoluene	2500	2660		ug/Kg		106	75 - 120
Benzene	2500	2730		ug/Kg		109	75 - 120
Bromobenzene	2500	2660		ug/Kg		106	75 - 120

TestAmerica Chicago

QC Sample Results

Client: TRC Environmental Corporation.
Project/Site: Former CMC Shops Wheelhouse 232269

TestAmerica Job ID: 500-94066-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 500-282507/14-A

Matrix: Solid

Analysis Batch: 283042

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 282507

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Bromochloromethane	2500	2640		ug/Kg		105	76 - 120
Bromodichloromethane	2500	2780		ug/Kg		111	77 - 121
Bromoform	2500	2570		ug/Kg		103	68 - 126
Bromomethane	2500	2060		ug/Kg		82	45 - 169
Carbon tetrachloride	2500	2770		ug/Kg		111	70 - 130
Chlorobenzene	2500	2720		ug/Kg		109	75 - 120
Chloroethane	2500	1750		ug/Kg		70	58 - 147
Chloroform	2500	2640		ug/Kg		106	76 - 120
Chloromethane	2500	1990		ug/Kg		80	63 - 133
cis-1,2-Dichloroethene	2500	2660		ug/Kg		106	75 - 120
cis-1,3-Dichloropropene	2500	2540		ug/Kg		102	78 - 130
Dibromochloromethane	2500	2510		ug/Kg		100	71 - 126
Dibromomethane	2500	2760		ug/Kg		110	75 - 120
Dichlorodifluoromethane	2500	1530		ug/Kg		61	41 - 146
Ethylbenzene	2500	2750		ug/Kg		110	75 - 120
Hexachlorobutadiene	2500	2880		ug/Kg		115	71 - 131
Isopropylbenzene	2500	2650		ug/Kg		106	75 - 121
Methyl tert-butyl ether	2500	2740		ug/Kg		109	75 - 130
Methylene Chloride	2500	2550		ug/Kg		102	73 - 130
Naphthalene	2500	3150		ug/Kg		126	69 - 135
n-Butylbenzene	2500	2770		ug/Kg		111	75 - 121
N-Propylbenzene	2500	2750		ug/Kg		110	75 - 120
p-Isopropyltoluene	2500	2680		ug/Kg		107	75 - 121
sec-Butylbenzene	2500	2680		ug/Kg		107	75 - 120
Styrene	2500	2770		ug/Kg		111	75 - 120
tert-Butylbenzene	2500	2650		ug/Kg		106	75 - 123
Tetrachloroethene	2500	2890		ug/Kg		116	75 - 120
Toluene	2500	2690		ug/Kg		108	75 - 120
trans-1,2-Dichloroethene	2500	2700		ug/Kg		108	77 - 120
trans-1,3-Dichloropropene	2500	2840		ug/Kg		113	74 - 130
Trichloroethene	2500	2780		ug/Kg		111	75 - 120
Trichlorofluoromethane	2500	2360		ug/Kg		94	71 - 130
Vinyl chloride	2500	2130		ug/Kg		85	72 - 123
Xylenes, Total	5000	5480		ug/Kg		110	75 - 120

Surrogate	LCS		Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	98		75 - 125
4-Bromofluorobenzene (Surr)	103		75 - 120
Dibromofluoromethane	103		75 - 120
Toluene-d8 (Surr)	103		75 - 120

Lab Sample ID: MB 500-283042/6

Matrix: Solid

Analysis Batch: 283042

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
1,1,1,2-Tetrachloroethane	<0.35		2.0	0.35	ug/Kg			04/09/15 11:19	1
1,1,1-Trichloroethane	<0.20		1.0	0.20	ug/Kg			04/09/15 11:19	1

TestAmerica Chicago

QC Sample Results

Client: TRC Environmental Corporation.
Project/Site: Former CMC Shops Wheelhouse 232269

TestAmerica Job ID: 500-94066-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 500-283042/6

Matrix: Solid

Analysis Batch: 283042

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	<0.23		1.0	0.23	ug/Kg			04/09/15 11:19	1
1,1,2-Trichloroethane	<0.28		1.0	0.28	ug/Kg			04/09/15 11:19	1
1,1-Dichloroethane	<0.19		1.0	0.19	ug/Kg			04/09/15 11:19	1
1,1-Dichloroethene	<0.31		1.0	0.31	ug/Kg			04/09/15 11:19	1
1,1-Dichloropropene	<0.34		1.0	0.34	ug/Kg			04/09/15 11:19	1
1,2,3-Trichlorobenzene	<0.35		2.0	0.35	ug/Kg			04/09/15 11:19	1
1,2,3-Trichloropropane	<0.57		2.0	0.57	ug/Kg			04/09/15 11:19	1
1,2,4-Trichlorobenzene	<0.38		2.0	0.38	ug/Kg			04/09/15 11:19	1
1,2,4-Trimethylbenzene	<0.21		2.0	0.21	ug/Kg			04/09/15 11:19	1
1,2-Dibromo-3-Chloropropane	<0.87		2.0	0.87	ug/Kg			04/09/15 11:19	1
1,2-Dibromoethane	<0.31		2.0	0.31	ug/Kg			04/09/15 11:19	1
1,2-Dichlorobenzene	<0.21		2.0	0.21	ug/Kg			04/09/15 11:19	1
1,2-Dichloroethane	<0.29		1.0	0.29	ug/Kg			04/09/15 11:19	1
1,2-Dichloropropane	<0.20		1.0	0.20	ug/Kg			04/09/15 11:19	1
1,3,5-Trimethylbenzene	<0.21		2.0	0.21	ug/Kg			04/09/15 11:19	1
1,3-Dichlorobenzene	<0.26		2.0	0.26	ug/Kg			04/09/15 11:19	1
1,3-Dichloropropane	<0.13		1.0	0.13	ug/Kg			04/09/15 11:19	1
1,4-Dichlorobenzene	<0.17		2.0	0.17	ug/Kg			04/09/15 11:19	1
2,2-Dichloropropane	<0.32		1.0	0.32	ug/Kg			04/09/15 11:19	1
2-Chlorotoluene	<0.21		1.0	0.21	ug/Kg			04/09/15 11:19	1
4-Chlorotoluene	<0.20		1.0	0.20	ug/Kg			04/09/15 11:19	1
Benzene	<0.074		0.25	0.074	ug/Kg			04/09/15 11:19	1
Bromobenzene	<0.43		2.0	0.43	ug/Kg			04/09/15 11:19	1
Bromochloromethane	<0.38		2.0	0.38	ug/Kg			04/09/15 11:19	1
Bromodichloromethane	<0.34		2.0	0.34	ug/Kg			04/09/15 11:19	1
Bromoform	<0.44		2.0	0.44	ug/Kg			04/09/15 11:19	1
Bromomethane	<0.68		2.0	0.68	ug/Kg			04/09/15 11:19	1
Carbon tetrachloride	<0.26		1.0	0.26	ug/Kg			04/09/15 11:19	1
Chlorobenzene	<0.14		1.0	0.14	ug/Kg			04/09/15 11:19	1
Chloroethane	<0.44		2.0	0.44	ug/Kg			04/09/15 11:19	1
Chloroform	<0.21		1.0	0.21	ug/Kg			04/09/15 11:19	1
Chloromethane	<0.46		2.0	0.46	ug/Kg			04/09/15 11:19	1
cis-1,2-Dichloroethene	<0.12		1.0	0.12	ug/Kg			04/09/15 11:19	1
cis-1,3-Dichloropropene	<0.18		1.0	0.18	ug/Kg			04/09/15 11:19	1
Dibromochloromethane	<0.35		2.0	0.35	ug/Kg			04/09/15 11:19	1
Dibromomethane	<0.48		2.0	0.48	ug/Kg			04/09/15 11:19	1
Dichlorodifluoromethane	<0.51		2.0	0.51	ug/Kg			04/09/15 11:19	1
Ethylbenzene	<0.13		0.25	0.13	ug/Kg			04/09/15 11:19	1
Hexachlorobutadiene	<0.35		2.0	0.35	ug/Kg			04/09/15 11:19	1
Isopropyl ether	<0.15		2.0	0.15	ug/Kg			04/09/15 11:19	1
Isopropylbenzene	<0.25		2.0	0.25	ug/Kg			04/09/15 11:19	1
Methyl tert-butyl ether	<0.43		2.0	0.43	ug/Kg			04/09/15 11:19	1
Methylene Chloride	<0.68		5.0	0.68	ug/Kg			04/09/15 11:19	1
Naphthalene	<0.49		2.0	0.49	ug/Kg			04/09/15 11:19	1
n-Butylbenzene	<0.13		1.0	0.13	ug/Kg			04/09/15 11:19	1
N-Propylbenzene	<0.18		2.0	0.18	ug/Kg			04/09/15 11:19	1
p-Isopropyltoluene	<0.19		2.0	0.19	ug/Kg			04/09/15 11:19	1
sec-Butylbenzene	<0.15		1.0	0.15	ug/Kg			04/09/15 11:19	1

TestAmerica Chicago

QC Sample Results

Client: TRC Environmental Corporation.
Project/Site: Former CMC Shops Wheelhouse 232269

TestAmerica Job ID: 500-94066-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 500-283042/6

Matrix: Solid

Analysis Batch: 283042

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Styrene	<0.099		1.0	0.099	ug/Kg			04/09/15 11:19	1
tert-Butylbenzene	<0.14		1.0	0.14	ug/Kg			04/09/15 11:19	1
Tetrachloroethene	<0.17		1.0	0.17	ug/Kg			04/09/15 11:19	1
Toluene	<0.12		0.25	0.12	ug/Kg			04/09/15 11:19	1
trans-1,2-Dichloroethene	<0.25		1.0	0.25	ug/Kg			04/09/15 11:19	1
trans-1,3-Dichloropropene	<0.21		1.0	0.21	ug/Kg			04/09/15 11:19	1
Trichloroethene	<0.19		0.50	0.19	ug/Kg			04/09/15 11:19	1
Trichlorofluoromethane	<0.42		2.0	0.42	ug/Kg			04/09/15 11:19	1
Vinyl chloride	<0.10		0.25	0.10	ug/Kg			04/09/15 11:19	1
Xylenes, Total	<0.068		0.50	0.068	ug/Kg			04/09/15 11:19	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	109		75 - 125		04/09/15 11:19	1
4-Bromofluorobenzene (Surr)	104		75 - 120		04/09/15 11:19	1
Dibromofluoromethane	100		75 - 120		04/09/15 11:19	1
Toluene-d8 (Surr)	101		75 - 120		04/09/15 11:19	1

Lab Sample ID: LCS 500-283042/4

Matrix: Solid

Analysis Batch: 283042

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	50.0	56.4		ug/Kg		113	75 - 122
1,1,1-Trichloroethane	50.0	52.5		ug/Kg		105	72 - 130
1,1,1,2,2-Tetrachloroethane	50.0	57.2		ug/Kg		114	72 - 130
1,1,1,2-Trichloroethane	50.0	59.2		ug/Kg		118	75 - 120
1,1-Dichloroethane	50.0	52.0		ug/Kg		104	75 - 120
1,1-Dichloroethene	50.0	53.8		ug/Kg		108	69 - 120
1,1-Dichloropropene	50.0	58.3		ug/Kg		117	75 - 130
1,2,3-Trichlorobenzene	50.0	63.1		ug/Kg		126	69 - 131
1,2,3-Trichloropropane	50.0	60.7		ug/Kg		121	65 - 132
1,2,4-Trichlorobenzene	50.0	59.9		ug/Kg		120	73 - 130
1,2,4-Trimethylbenzene	50.0	53.5		ug/Kg		107	75 - 121
1,2-Dibromo-3-Chloropropane	50.0	64.2		ug/Kg		128	62 - 130
1,2-Dibromoethane	50.0	56.9		ug/Kg		114	78 - 122
1,2-Dichlorobenzene	50.0	55.4		ug/Kg		111	75 - 120
1,2-Dichloroethane	50.0	54.6		ug/Kg		109	69 - 130
1,2-Dichloropropane	50.0	53.3		ug/Kg		107	75 - 120
1,3,5-Trimethylbenzene	50.0	52.6		ug/Kg		105	75 - 121
1,3-Dichlorobenzene	50.0	54.7		ug/Kg		109	75 - 120
1,3-Dichloropropane	50.0	56.0		ug/Kg		112	77 - 124
1,4-Dichlorobenzene	50.0	54.4		ug/Kg		109	75 - 120
2,2-Dichloropropane	50.0	48.9		ug/Kg		98	65 - 132
2-Chlorotoluene	50.0	52.3		ug/Kg		105	75 - 120
4-Chlorotoluene	50.0	53.9		ug/Kg		108	75 - 120
Benzene	50.0	54.0		ug/Kg		108	75 - 120
Bromobenzene	50.0	54.6		ug/Kg		109	75 - 120
Bromochloromethane	50.0	53.1		ug/Kg		106	76 - 120

TestAmerica Chicago

QC Sample Results

Client: TRC Environmental Corporation.
Project/Site: Former CMC Shops Wheelhouse 232269

TestAmerica Job ID: 500-94066-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 500-283042/4

Matrix: Solid

Analysis Batch: 283042

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Bromodichloromethane	50.0	55.4		ug/Kg		111	77 - 121
Bromoform	50.0	52.9		ug/Kg		106	68 - 126
Bromomethane	50.0	43.3		ug/Kg		87	45 - 169
Carbon tetrachloride	50.0	54.6		ug/Kg		109	70 - 130
Chlorobenzene	50.0	55.2		ug/Kg		110	75 - 120
Chloroethane	50.0	37.7		ug/Kg		75	58 - 147
Chloroform	50.0	52.6		ug/Kg		105	76 - 120
Chloromethane	50.0	41.5		ug/Kg		83	63 - 133
cis-1,2-Dichloroethene	50.0	53.5		ug/Kg		107	75 - 120
cis-1,3-Dichloropropene	50.0	53.2		ug/Kg		106	78 - 130
Dibromochloromethane	50.0	53.4		ug/Kg		107	71 - 126
Dibromomethane	50.0	54.4		ug/Kg		109	75 - 120
Dichlorodifluoromethane	50.0	33.5		ug/Kg		67	41 - 146
Ethylbenzene	50.0	54.5		ug/Kg		109	75 - 120
Hexachlorobutadiene	50.0	55.8		ug/Kg		112	71 - 131
Isopropylbenzene	50.0	52.2		ug/Kg		104	75 - 121
Methyl tert-butyl ether	50.0	55.1		ug/Kg		110	75 - 130
Methylene Chloride	50.0	52.1		ug/Kg		104	73 - 130
Naphthalene	50.0	64.7		ug/Kg		129	69 - 135
n-Butylbenzene	50.0	54.0		ug/Kg		108	75 - 121
N-Propylbenzene	50.0	53.4		ug/Kg		107	75 - 120
p-Isopropyltoluene	50.0	53.0		ug/Kg		106	75 - 121
sec-Butylbenzene	50.0	52.2		ug/Kg		104	75 - 120
Styrene	50.0	55.6		ug/Kg		111	75 - 120
tert-Butylbenzene	50.0	53.0		ug/Kg		106	75 - 123
Tetrachloroethene	50.0	56.1		ug/Kg		112	75 - 120
Toluene	50.0	53.9		ug/Kg		108	75 - 120
trans-1,2-Dichloroethene	50.0	52.1		ug/Kg		104	77 - 120
trans-1,3-Dichloropropene	50.0	62.5		ug/Kg		125	74 - 130
Trichloroethene	50.0	53.6		ug/Kg		107	75 - 120
Trichlorofluoromethane	50.0	46.9		ug/Kg		94	71 - 130
Vinyl chloride	50.0	43.3		ug/Kg		87	72 - 123
Xylenes, Total	100	110		ug/Kg		110	75 - 120

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	104		75 - 125
4-Bromofluorobenzene (Surr)	104		75 - 120
Dibromofluoromethane	103		75 - 120
Toluene-d8 (Surr)	104		75 - 120

Lab Sample ID: MB 500-283234/6

Matrix: Solid

Analysis Batch: 283234

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.35		2.0	0.35	ug/Kg			04/10/15 10:04	1
1,1,1-Trichloroethane	<0.20		1.0	0.20	ug/Kg			04/10/15 10:04	1
1,1,2,2-Tetrachloroethane	<0.23		1.0	0.23	ug/Kg			04/10/15 10:04	1

TestAmerica Chicago

QC Sample Results

Client: TRC Environmental Corporation.
Project/Site: Former CMC Shops Wheelhouse 232269

TestAmerica Job ID: 500-94066-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 500-283234/6

Matrix: Solid

Analysis Batch: 283234

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichloroethane	<0.28		1.0	0.28	ug/Kg			04/10/15 10:04	1
1,1-Dichloroethane	<0.19		1.0	0.19	ug/Kg			04/10/15 10:04	1
1,1-Dichloroethene	<0.31		1.0	0.31	ug/Kg			04/10/15 10:04	1
1,1-Dichloropropene	<0.34		1.0	0.34	ug/Kg			04/10/15 10:04	1
1,2,3-Trichlorobenzene	<0.35		2.0	0.35	ug/Kg			04/10/15 10:04	1
1,2,3-Trichloropropane	<0.57		2.0	0.57	ug/Kg			04/10/15 10:04	1
1,2,4-Trichlorobenzene	<0.38		2.0	0.38	ug/Kg			04/10/15 10:04	1
1,2,4-Trimethylbenzene	<0.21		2.0	0.21	ug/Kg			04/10/15 10:04	1
1,2-Dibromo-3-Chloropropane	<0.87		2.0	0.87	ug/Kg			04/10/15 10:04	1
1,2-Dibromoethane	<0.31		2.0	0.31	ug/Kg			04/10/15 10:04	1
1,2-Dichlorobenzene	<0.21		2.0	0.21	ug/Kg			04/10/15 10:04	1
1,2-Dichloroethane	<0.29		1.0	0.29	ug/Kg			04/10/15 10:04	1
1,2-Dichloropropane	<0.20		1.0	0.20	ug/Kg			04/10/15 10:04	1
1,3,5-Trimethylbenzene	<0.21		2.0	0.21	ug/Kg			04/10/15 10:04	1
1,3-Dichlorobenzene	<0.26		2.0	0.26	ug/Kg			04/10/15 10:04	1
1,3-Dichloropropane	<0.13		1.0	0.13	ug/Kg			04/10/15 10:04	1
1,4-Dichlorobenzene	<0.17		2.0	0.17	ug/Kg			04/10/15 10:04	1
2,2-Dichloropropane	<0.32		1.0	0.32	ug/Kg			04/10/15 10:04	1
2-Chlorotoluene	<0.21		1.0	0.21	ug/Kg			04/10/15 10:04	1
4-Chlorotoluene	<0.20		1.0	0.20	ug/Kg			04/10/15 10:04	1
Benzene	<0.074		0.25	0.074	ug/Kg			04/10/15 10:04	1
Bromobenzene	<0.43		2.0	0.43	ug/Kg			04/10/15 10:04	1
Bromochloromethane	<0.38		2.0	0.38	ug/Kg			04/10/15 10:04	1
Bromodichloromethane	<0.34		2.0	0.34	ug/Kg			04/10/15 10:04	1
Bromoform	<0.44		2.0	0.44	ug/Kg			04/10/15 10:04	1
Bromomethane	<0.68		2.0	0.68	ug/Kg			04/10/15 10:04	1
Carbon tetrachloride	<0.26		1.0	0.26	ug/Kg			04/10/15 10:04	1
Chlorobenzene	<0.14		1.0	0.14	ug/Kg			04/10/15 10:04	1
Chloroethane	<0.44		2.0	0.44	ug/Kg			04/10/15 10:04	1
Chloroform	<0.21		1.0	0.21	ug/Kg			04/10/15 10:04	1
Chloromethane	<0.46		2.0	0.46	ug/Kg			04/10/15 10:04	1
cis-1,2-Dichloroethene	<0.12		1.0	0.12	ug/Kg			04/10/15 10:04	1
cis-1,3-Dichloropropene	<0.18		1.0	0.18	ug/Kg			04/10/15 10:04	1
Dibromochloromethane	<0.35		2.0	0.35	ug/Kg			04/10/15 10:04	1
Dibromomethane	<0.48		2.0	0.48	ug/Kg			04/10/15 10:04	1
Dichlorodifluoromethane	<0.51		2.0	0.51	ug/Kg			04/10/15 10:04	1
Ethylbenzene	<0.13		0.25	0.13	ug/Kg			04/10/15 10:04	1
Hexachlorobutadiene	<0.35		2.0	0.35	ug/Kg			04/10/15 10:04	1
Isopropyl ether	<0.15		2.0	0.15	ug/Kg			04/10/15 10:04	1
Isopropylbenzene	<0.25		2.0	0.25	ug/Kg			04/10/15 10:04	1
Methyl tert-butyl ether	<0.43		2.0	0.43	ug/Kg			04/10/15 10:04	1
Methylene Chloride	<0.68		5.0	0.68	ug/Kg			04/10/15 10:04	1
Naphthalene	<0.49		2.0	0.49	ug/Kg			04/10/15 10:04	1
n-Butylbenzene	<0.13		1.0	0.13	ug/Kg			04/10/15 10:04	1
N-Propylbenzene	<0.18		2.0	0.18	ug/Kg			04/10/15 10:04	1
p-Isopropyltoluene	<0.19		2.0	0.19	ug/Kg			04/10/15 10:04	1
sec-Butylbenzene	<0.15		1.0	0.15	ug/Kg			04/10/15 10:04	1
Styrene	<0.099		1.0	0.099	ug/Kg			04/10/15 10:04	1

TestAmerica Chicago

QC Sample Results

Client: TRC Environmental Corporation.
Project/Site: Former CMC Shops Wheelhouse 232269

TestAmerica Job ID: 500-94066-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 500-283234/6

Matrix: Solid

Analysis Batch: 283234

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
tert-Butylbenzene	<0.14		1.0	0.14	ug/Kg			04/10/15 10:04	1
Tetrachloroethene	<0.17		1.0	0.17	ug/Kg			04/10/15 10:04	1
Toluene	<0.12		0.25	0.12	ug/Kg			04/10/15 10:04	1
trans-1,2-Dichloroethene	<0.25		1.0	0.25	ug/Kg			04/10/15 10:04	1
trans-1,3-Dichloropropene	<0.21		1.0	0.21	ug/Kg			04/10/15 10:04	1
Trichloroethene	<0.19		0.50	0.19	ug/Kg			04/10/15 10:04	1
Trichlorofluoromethane	<0.42		2.0	0.42	ug/Kg			04/10/15 10:04	1
Vinyl chloride	<0.10		0.25	0.10	ug/Kg			04/10/15 10:04	1
Xylenes, Total	<0.068		0.50	0.068	ug/Kg			04/10/15 10:04	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	102		75 - 125		04/10/15 10:04	1
4-Bromofluorobenzene (Surr)	105		75 - 120		04/10/15 10:04	1
Dibromofluoromethane	101		75 - 120		04/10/15 10:04	1
Toluene-d8 (Surr)	100		75 - 120		04/10/15 10:04	1

Lab Sample ID: LCS 500-283234/4

Matrix: Solid

Analysis Batch: 283234

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	50.0	55.4		ug/Kg		111	75 - 122
1,1,1-Trichloroethane	50.0	52.0		ug/Kg		104	72 - 130
1,1,2,2-Tetrachloroethane	50.0	50.3		ug/Kg		101	72 - 130
1,1,2-Trichloroethane	50.0	54.5		ug/Kg		109	75 - 120
1,1-Dichloroethane	50.0	52.0		ug/Kg		104	75 - 120
1,1-Dichloroethene	50.0	52.3		ug/Kg		105	69 - 120
1,1-Dichloropropene	50.0	56.4		ug/Kg		113	75 - 130
1,2,3-Trichlorobenzene	50.0	57.6		ug/Kg		115	69 - 131
1,2,3-Trichloropropane	50.0	53.9		ug/Kg		108	65 - 132
1,2,4-Trichlorobenzene	50.0	58.9		ug/Kg		118	73 - 130
1,2,4-Trimethylbenzene	50.0	51.6		ug/Kg		103	75 - 121
1,2-Dibromo-3-Chloropropane	50.0	56.0		ug/Kg		112	62 - 130
1,2-Dibromoethane	50.0	52.2		ug/Kg		104	78 - 122
1,2-Dichlorobenzene	50.0	51.9		ug/Kg		104	75 - 120
1,2-Dichloroethane	50.0	51.8		ug/Kg		104	69 - 130
1,2-Dichloropropane	50.0	50.8		ug/Kg		102	75 - 120
1,3,5-Trimethylbenzene	50.0	51.0		ug/Kg		102	75 - 121
1,3-Dichlorobenzene	50.0	51.6		ug/Kg		103	75 - 120
1,3-Dichloropropane	50.0	50.9		ug/Kg		102	77 - 124
1,4-Dichlorobenzene	50.0	50.1		ug/Kg		100	75 - 120
2,2-Dichloropropane	50.0	52.0		ug/Kg		104	65 - 132
2-Chlorotoluene	50.0	49.5		ug/Kg		99	75 - 120
4-Chlorotoluene	50.0	48.9		ug/Kg		98	75 - 120
Benzene	50.0	51.7		ug/Kg		103	75 - 120
Bromobenzene	50.0	50.0		ug/Kg		100	75 - 120
Bromochloromethane	50.0	53.4		ug/Kg		107	76 - 120
Bromodichloromethane	50.0	51.3		ug/Kg		103	77 - 121

TestAmerica Chicago

QC Sample Results

Client: TRC Environmental Corporation.
Project/Site: Former CMC Shops Wheelhouse 232269

TestAmerica Job ID: 500-94066-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 500-283234/4

Matrix: Solid

Analysis Batch: 283234

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Bromoform	50.0	47.1		ug/Kg		94	68 - 126
Bromomethane	50.0	48.8		ug/Kg		98	45 - 169
Carbon tetrachloride	50.0	54.5		ug/Kg		109	70 - 130
Chlorobenzene	50.0	52.4		ug/Kg		105	75 - 120
Chloroethane	50.0	39.3		ug/Kg		79	58 - 147
Chloroform	50.0	50.9		ug/Kg		102	76 - 120
Chloromethane	50.0	57.0		ug/Kg		114	63 - 133
cis-1,2-Dichloroethene	50.0	52.6		ug/Kg		105	75 - 120
cis-1,3-Dichloropropene	50.0	50.9		ug/Kg		102	78 - 130
Dibromochloromethane	50.0	49.6		ug/Kg		99	71 - 126
Dibromomethane	50.0	51.9		ug/Kg		104	75 - 120
Dichlorodifluoromethane	50.0	59.5		ug/Kg		119	41 - 146
Ethylbenzene	50.0	52.7		ug/Kg		105	75 - 120
Hexachlorobutadiene	50.0	57.2		ug/Kg		114	71 - 131
Isopropylbenzene	50.0	50.3		ug/Kg		101	75 - 121
Methyl tert-butyl ether	50.0	51.8		ug/Kg		104	75 - 130
Methylene Chloride	50.0	52.1		ug/Kg		104	73 - 130
Naphthalene	50.0	57.9		ug/Kg		116	69 - 135
n-Butylbenzene	50.0	54.6		ug/Kg		109	75 - 121
N-Propylbenzene	50.0	51.2		ug/Kg		102	75 - 120
p-Isopropyltoluene	50.0	52.6		ug/Kg		105	75 - 121
sec-Butylbenzene	50.0	52.0		ug/Kg		104	75 - 120
Styrene	50.0	52.2		ug/Kg		104	75 - 120
tert-Butylbenzene	50.0	51.5		ug/Kg		103	75 - 123
Tetrachloroethene	50.0	55.9		ug/Kg		112	75 - 120
Toluene	50.0	52.0		ug/Kg		104	75 - 120
trans-1,2-Dichloroethene	50.0	51.0		ug/Kg		102	77 - 120
trans-1,3-Dichloropropene	50.0	56.9		ug/Kg		114	74 - 130
Trichloroethene	50.0	53.5		ug/Kg		107	75 - 120
Trichlorofluoromethane	50.0	54.8		ug/Kg		110	71 - 130
Vinyl chloride	50.0	58.1		ug/Kg		116	72 - 123
Xylenes, Total	100	107		ug/Kg		107	75 - 120

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	101		75 - 125
4-Bromofluorobenzene (Surr)	97		75 - 120
Dibromofluoromethane	105		75 - 120
Toluene-d8 (Surr)	104		75 - 120

Lab Sample ID: MB 500-283235/6

Matrix: Water

Analysis Batch: 283235

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
1,1,1,2-Tetrachloroethane	<0.25		1.0	0.25	ug/L			04/10/15 10:04	1
1,1,1-Trichloroethane	<0.20		1.0	0.20	ug/L			04/10/15 10:04	1
1,1,2,2-Tetrachloroethane	<0.23		1.0	0.23	ug/L			04/10/15 10:04	1
1,1,2-Trichloroethane	<0.28		1.0	0.28	ug/L			04/10/15 10:04	1

TestAmerica Chicago

QC Sample Results

Client: TRC Environmental Corporation.
Project/Site: Former CMC Shops Wheelhouse 232269

TestAmerica Job ID: 500-94066-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 500-283235/6

Matrix: Water

Analysis Batch: 283235

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethane	<0.19		1.0	0.19	ug/L			04/10/15 10:04	1
1,1-Dichloroethene	<0.31		1.0	0.31	ug/L			04/10/15 10:04	1
1,1-Dichloropropene	<0.34		1.0	0.34	ug/L			04/10/15 10:04	1
1,2,3-Trichlorobenzene	<0.24		1.0	0.24	ug/L			04/10/15 10:04	1
1,2,3-Trichloropropane	<0.45		1.0	0.45	ug/L			04/10/15 10:04	1
1,2,4-Trichlorobenzene	<0.31		1.0	0.31	ug/L			04/10/15 10:04	1
1,2,4-Trimethylbenzene	<0.14		1.0	0.14	ug/L			04/10/15 10:04	1
1,2-Dibromo-3-Chloropropane	<0.87		2.0	0.87	ug/L			04/10/15 10:04	1
1,2-Dibromoethane	<0.36		1.0	0.36	ug/L			04/10/15 10:04	1
1,2-Dichlorobenzene	<0.27		1.0	0.27	ug/L			04/10/15 10:04	1
1,2-Dichloroethane	<0.28		1.0	0.28	ug/L			04/10/15 10:04	1
1,2-Dichloropropane	<0.20		1.0	0.20	ug/L			04/10/15 10:04	1
1,3,5-Trimethylbenzene	<0.18		1.0	0.18	ug/L			04/10/15 10:04	1
1,3-Dichlorobenzene	<0.15		1.0	0.15	ug/L			04/10/15 10:04	1
1,3-Dichloropropane	<0.13		1.0	0.13	ug/L			04/10/15 10:04	1
1,4-Dichlorobenzene	<0.15		1.0	0.15	ug/L			04/10/15 10:04	1
2,2-Dichloropropane	<0.32		1.0	0.32	ug/L			04/10/15 10:04	1
2-Chlorotoluene	<0.21		1.0	0.21	ug/L			04/10/15 10:04	1
4-Chlorotoluene	<0.20		1.0	0.20	ug/L			04/10/15 10:04	1
Benzene	<0.074		0.50	0.074	ug/L			04/10/15 10:04	1
Bromobenzene	<0.25		1.0	0.25	ug/L			04/10/15 10:04	1
Bromochloromethane	<0.40		1.0	0.40	ug/L			04/10/15 10:04	1
Bromodichloromethane	<0.17		1.0	0.17	ug/L			04/10/15 10:04	1
Bromoform	<0.28		1.0	0.28	ug/L			04/10/15 10:04	1
Bromomethane	<0.31		1.0	0.31	ug/L			04/10/15 10:04	1
Carbon tetrachloride	<0.26		1.0	0.26	ug/L			04/10/15 10:04	1
Chlorobenzene	<0.14		1.0	0.14	ug/L			04/10/15 10:04	1
Chloroethane	<0.34		1.0	0.34	ug/L			04/10/15 10:04	1
Chloroform	<0.20		1.0	0.20	ug/L			04/10/15 10:04	1
Chloromethane	<0.18		1.0	0.18	ug/L			04/10/15 10:04	1
cis-1,2-Dichloroethene	<0.12		1.0	0.12	ug/L			04/10/15 10:04	1
cis-1,3-Dichloropropene	<0.18		1.0	0.18	ug/L			04/10/15 10:04	1
Dibromochloromethane	<0.32		1.0	0.32	ug/L			04/10/15 10:04	1
Dibromomethane	<0.33		1.0	0.33	ug/L			04/10/15 10:04	1
Dichlorodifluoromethane	<0.20		1.0	0.20	ug/L			04/10/15 10:04	1
Ethylbenzene	<0.13		0.50	0.13	ug/L			04/10/15 10:04	1
Hexachlorobutadiene	<0.26		1.0	0.26	ug/L			04/10/15 10:04	1
Isopropyl ether	<0.15		1.0	0.15	ug/L			04/10/15 10:04	1
Isopropylbenzene	<0.14		1.0	0.14	ug/L			04/10/15 10:04	1
Methyl tert-butyl ether	<0.24		1.0	0.24	ug/L			04/10/15 10:04	1
Methylene Chloride	<0.68		5.0	0.68	ug/L			04/10/15 10:04	1
Naphthalene	<0.16		1.0	0.16	ug/L			04/10/15 10:04	1
n-Butylbenzene	<0.13		1.0	0.13	ug/L			04/10/15 10:04	1
N-Propylbenzene	<0.13		1.0	0.13	ug/L			04/10/15 10:04	1
p-Isopropyltoluene	<0.17		1.0	0.17	ug/L			04/10/15 10:04	1
sec-Butylbenzene	<0.15		1.0	0.15	ug/L			04/10/15 10:04	1
Styrene	<0.10		1.0	0.10	ug/L			04/10/15 10:04	1
tert-Butylbenzene	<0.14		1.0	0.14	ug/L			04/10/15 10:04	1

TestAmerica Chicago

QC Sample Results

Client: TRC Environmental Corporation.
Project/Site: Former CMC Shops Wheelhouse 232269

TestAmerica Job ID: 500-94066-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 500-283235/6

Matrix: Water

Analysis Batch: 283235

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	<0.17		1.0	0.17	ug/L			04/10/15 10:04	1
Toluene	<0.11		0.50	0.11	ug/L			04/10/15 10:04	1
trans-1,2-Dichloroethene	<0.25		1.0	0.25	ug/L			04/10/15 10:04	1
trans-1,3-Dichloropropene	<0.21		1.0	0.21	ug/L			04/10/15 10:04	1
Trichloroethene	<0.19		0.50	0.19	ug/L			04/10/15 10:04	1
Trichlorofluoromethane	<0.19		1.0	0.19	ug/L			04/10/15 10:04	1
Vinyl chloride	<0.10		0.50	0.10	ug/L			04/10/15 10:04	1
Xylenes, Total	<0.068		1.0	0.068	ug/L			04/10/15 10:04	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	102		75 - 125		04/10/15 10:04	1
4-Bromofluorobenzene (Surr)	105		75 - 120		04/10/15 10:04	1
Dibromofluoromethane	101		75 - 120		04/10/15 10:04	1
Toluene-d8 (Surr)	100		75 - 120		04/10/15 10:04	1

Lab Sample ID: LCS 500-283235/4

Matrix: Water

Analysis Batch: 283235

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	50.0	55.4		ug/L		111	75 - 122
1,1,1-Trichloroethane	50.0	52.0		ug/L		104	72 - 130
1,1,1,2,2-Tetrachloroethane	50.0	50.3		ug/L		101	72 - 130
1,1,2-Trichloroethane	50.0	54.5		ug/L		109	75 - 120
1,1-Dichloroethane	50.0	52.0		ug/L		104	75 - 120
1,1-Dichloroethene	50.0	52.3		ug/L		105	69 - 120
1,1-Dichloropropene	50.0	56.4		ug/L		113	75 - 130
1,2,3-Trichlorobenzene	50.0	57.6		ug/L		115	69 - 131
1,2,3-Trichloropropane	50.0	53.9		ug/L		108	65 - 132
1,2,4-Trichlorobenzene	50.0	58.9		ug/L		118	73 - 130
1,2,4-Trimethylbenzene	50.0	51.6		ug/L		103	75 - 121
1,2-Dibromo-3-Chloropropane	50.0	56.0		ug/L		112	62 - 130
1,2-Dibromoethane	50.0	52.2		ug/L		104	78 - 122
1,2-Dichlorobenzene	50.0	51.9		ug/L		104	75 - 120
1,2-Dichloroethane	50.0	51.8		ug/L		104	69 - 130
1,2-Dichloropropane	50.0	50.8		ug/L		102	75 - 120
1,3,5-Trimethylbenzene	50.0	51.0		ug/L		102	75 - 121
1,3-Dichlorobenzene	50.0	51.6		ug/L		103	75 - 120
1,3-Dichloropropane	50.0	50.9		ug/L		102	77 - 124
1,4-Dichlorobenzene	50.0	50.1		ug/L		100	75 - 120
2,2-Dichloropropane	50.0	52.0		ug/L		104	65 - 132
2-Chlorotoluene	50.0	49.5		ug/L		99	75 - 120
4-Chlorotoluene	50.0	48.9		ug/L		98	75 - 120
Benzene	50.0	51.7		ug/L		103	75 - 120
Bromobenzene	50.0	50.0		ug/L		100	75 - 120
Bromochloromethane	50.0	53.4		ug/L		107	76 - 120
Bromodichloromethane	50.0	51.3		ug/L		103	77 - 121
Bromoform	50.0	47.1		ug/L		94	68 - 126

TestAmerica Chicago

QC Sample Results

Client: TRC Environmental Corporation.
Project/Site: Former CMC Shops Wheelhouse 232269

TestAmerica Job ID: 500-94066-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 500-283235/4

Matrix: Water

Analysis Batch: 283235

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Bromomethane	50.0	48.8		ug/L		98	45 - 169
Carbon tetrachloride	50.0	54.5		ug/L		109	70 - 130
Chlorobenzene	50.0	52.4		ug/L		105	75 - 120
Chloroethane	50.0	39.3		ug/L		79	58 - 147
Chloroform	50.0	50.9		ug/L		102	76 - 120
Chloromethane	50.0	57.0		ug/L		114	63 - 133
cis-1,2-Dichloroethene	50.0	52.6		ug/L		105	75 - 120
cis-1,3-Dichloropropene	50.0	50.9		ug/L		102	78 - 130
Dibromochloromethane	50.0	49.6		ug/L		99	71 - 126
Dibromomethane	50.0	51.9		ug/L		104	75 - 120
Dichlorodifluoromethane	50.0	59.5		ug/L		119	41 - 146
Ethylbenzene	50.0	52.7		ug/L		105	75 - 120
Hexachlorobutadiene	50.0	57.2		ug/L		114	71 - 131
Isopropylbenzene	50.0	50.3		ug/L		101	75 - 121
Methyl tert-butyl ether	50.0	51.8		ug/L		104	75 - 130
Methylene Chloride	50.0	52.1		ug/L		104	73 - 130
Naphthalene	50.0	57.9		ug/L		116	69 - 135
n-Butylbenzene	50.0	54.6		ug/L		109	75 - 121
N-Propylbenzene	50.0	51.2		ug/L		102	75 - 120
p-Isopropyltoluene	50.0	52.6		ug/L		105	75 - 121
sec-Butylbenzene	50.0	52.0		ug/L		104	75 - 120
Styrene	50.0	52.2		ug/L		104	75 - 120
tert-Butylbenzene	50.0	51.5		ug/L		103	75 - 123
Tetrachloroethene	50.0	55.9		ug/L		112	75 - 120
Toluene	50.0	52.0		ug/L		104	75 - 120
trans-1,2-Dichloroethene	50.0	51.0		ug/L		102	77 - 120
trans-1,3-Dichloropropene	50.0	56.9		ug/L		114	74 - 130
Trichloroethene	50.0	53.5		ug/L		107	75 - 120
Trichlorofluoromethane	50.0	54.8		ug/L		110	71 - 130
Vinyl chloride	50.0	58.1		ug/L		116	72 - 123
Xylenes, Total	100	107		ug/L		107	75 - 120

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	101		75 - 125
4-Bromofluorobenzene (Surr)	97		75 - 120
Dibromofluoromethane	105		75 - 120
Toluene-d8 (Surr)	104		75 - 120

Lab Sample ID: 500-94066-32 MS

Matrix: Water

Analysis Batch: 283235

Client Sample ID: GP-1

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	<0.25		50.0	54.2		ug/L		108	75 - 122
1,1,1-Trichloroethane	<0.20		50.0	52.4		ug/L		105	72 - 130
1,1,2,2-Tetrachloroethane	<0.23		50.0	54.6		ug/L		109	72 - 130
1,1,2-Trichloroethane	<0.28		50.0	54.4		ug/L		109	75 - 120
1,1-Dichloroethane	<0.19		50.0	51.5		ug/L		103	75 - 120

TestAmerica Chicago

QC Sample Results

Client: TRC Environmental Corporation.
Project/Site: Former CMC Shops Wheelhouse 232269

TestAmerica Job ID: 500-94066-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 500-94066-32 MS

Matrix: Water

Analysis Batch: 283235

Client Sample ID: GP-1

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1-Dichloroethene	<0.31		50.0	51.6		ug/L		103	69 - 120
1,1-Dichloropropene	<0.34		50.0	55.9		ug/L		112	75 - 130
1,2,3-Trichlorobenzene	<0.24		50.0	56.9		ug/L		114	69 - 131
1,2,3-Trichloropropane	<0.45		50.0	57.0		ug/L		114	65 - 132
1,2,4-Trichlorobenzene	<0.31		50.0	54.6		ug/L		109	73 - 130
1,2,4-Trimethylbenzene	90		50.0	146		ug/L		111	75 - 121
1,2-Dibromo-3-Chloropropane	<0.87		50.0	64.7		ug/L		129	62 - 130
1,2-Dibromoethane	<0.36		50.0	53.3		ug/L		107	78 - 122
1,2-Dichlorobenzene	<0.27		50.0	53.7		ug/L		107	75 - 120
1,2-Dichloroethane	<0.28		50.0	52.8		ug/L		106	69 - 130
1,2-Dichloropropane	<0.20		50.0	50.7		ug/L		101	75 - 120
1,3,5-Trimethylbenzene	23		50.0	75.9		ug/L		105	75 - 121
1,3-Dichlorobenzene	<0.15		50.0	51.8		ug/L		104	75 - 120
1,3-Dichloropropane	<0.13		50.0	52.0		ug/L		104	77 - 124
1,4-Dichlorobenzene	<0.15		50.0	51.1		ug/L		102	75 - 120
2,2-Dichloropropane	<0.32		50.0	49.8		ug/L		100	65 - 132
2-Chlorotoluene	<0.21		50.0	50.9		ug/L		102	75 - 120
4-Chlorotoluene	<0.20		50.0	52.7		ug/L		105	75 - 120
Benzene	<0.074		50.0	52.1		ug/L		104	75 - 120
Bromobenzene	<0.25		50.0	52.5		ug/L		105	75 - 120
Bromochloromethane	<0.40		50.0	53.4		ug/L		107	76 - 120
Bromodichloromethane	<0.17		50.0	51.4		ug/L		103	77 - 121
Bromoform	<0.28		50.0	47.8		ug/L		96	68 - 126
Bromomethane	<0.31		50.0	52.0		ug/L		104	45 - 169
Carbon tetrachloride	<0.26		50.0	53.1		ug/L		106	70 - 130
Chlorobenzene	<0.14		50.0	51.9		ug/L		104	75 - 120
Chloroethane	<0.34		50.0	45.6		ug/L		91	58 - 147
Chloroform	<0.20		50.0	51.5		ug/L		103	76 - 120
Chloromethane	<0.18		50.0	41.9		ug/L		84	63 - 133
cis-1,2-Dichloroethene	<0.12		50.0	52.8		ug/L		106	75 - 120
cis-1,3-Dichloropropene	<0.18		50.0	47.6		ug/L		95	78 - 130
Dibromochloromethane	<0.32		50.0	50.0		ug/L		100	71 - 126
Dibromomethane	<0.33		50.0	53.2		ug/L		106	75 - 120
Dichlorodifluoromethane	<0.20		50.0	55.5		ug/L		111	41 - 146
Ethylbenzene	0.38	J	50.0	51.4		ug/L		103	75 - 120
Hexachlorobutadiene	<0.26		50.0	55.3		ug/L		111	71 - 131
Isopropylbenzene	5.4		50.0	58.0		ug/L		105	75 - 121
Methyl tert-butyl ether	<0.24		50.0	53.0		ug/L		106	75 - 130
Methylene Chloride	<0.68		50.0	53.9		ug/L		108	73 - 130
Naphthalene	2.2		50.0	62.8		ug/L		121	69 - 135
n-Butylbenzene	5.1		50.0	56.3		ug/L		102	75 - 121
N-Propylbenzene	8.9		50.0	61.9		ug/L		106	75 - 120
p-Isopropyltoluene	<0.17		50.0	52.1		ug/L		104	75 - 121
sec-Butylbenzene	4.3		50.0	57.0		ug/L		105	75 - 120
Styrene	<0.10		50.0	52.2		ug/L		104	75 - 120
tert-Butylbenzene	<0.14		50.0	54.1		ug/L		108	75 - 123
Tetrachloroethene	<0.17		50.0	53.9		ug/L		108	75 - 120
Toluene	<0.11		50.0	50.9		ug/L		102	75 - 120

TestAmerica Chicago

QC Sample Results

Client: TRC Environmental Corporation.
Project/Site: Former CMC Shops Wheelhouse 232269

TestAmerica Job ID: 500-94066-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 500-94066-32 MS

Matrix: Water

Analysis Batch: 283235

Client Sample ID: GP-1

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
trans-1,2-Dichloroethene	<0.25		50.0	51.9		ug/L		104	77 - 120
trans-1,3-Dichloropropene	<0.21		50.0	55.9		ug/L		112	74 - 130
Trichloroethene	<0.19		50.0	51.9		ug/L		104	75 - 120
Trichlorofluoromethane	<0.19		50.0	51.2		ug/L		102	71 - 130
Vinyl chloride	<0.10		50.0	54.6		ug/L		109	72 - 123
Xylenes, Total	14		100	118		ug/L		105	75 - 120

Surrogate	MS %Recovery	MS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	101		75 - 125
4-Bromofluorobenzene (Surr)	106		75 - 120
Dibromofluoromethane	105		75 - 120
Toluene-d8 (Surr)	102		75 - 120

Lab Sample ID: 500-94066-32 MSD

Matrix: Water

Analysis Batch: 283235

Client Sample ID: GP-1

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	<0.25		50.0	51.0		ug/L		102	75 - 122	6	20
1,1,1-Trichloroethane	<0.20		50.0	52.0		ug/L		104	72 - 130	1	20
1,1,2,2-Tetrachloroethane	<0.23		50.0	50.4		ug/L		101	72 - 130	8	20
1,1,2-Trichloroethane	<0.28		50.0	52.4		ug/L		105	75 - 120	4	20
1,1-Dichloroethane	<0.19		50.0	50.8		ug/L		102	75 - 120	1	20
1,1-Dichloroethene	<0.31		50.0	50.5		ug/L		101	69 - 120	2	20
1,1-Dichloropropene	<0.34		50.0	55.0		ug/L		110	75 - 130	2	20
1,2,3-Trichlorobenzene	<0.24		50.0	55.5		ug/L		111	69 - 131	3	20
1,2,3-Trichloropropane	<0.45		50.0	53.5		ug/L		107	65 - 132	6	20
1,2,4-Trichlorobenzene	<0.31		50.0	52.9		ug/L		106	73 - 130	3	20
1,2,4-Trimethylbenzene	90		50.0	139		ug/L		96	75 - 121	5	20
1,2-Dibromo-3-Chloropropane	<0.87		50.0	61.5		ug/L		123	62 - 130	5	20
1,2-Dibromoethane	<0.36		50.0	52.3		ug/L		105	78 - 122	2	20
1,2-Dichlorobenzene	<0.27		50.0	51.3		ug/L		103	75 - 120	5	20
1,2-Dichloroethane	<0.28		50.0	51.3		ug/L		103	69 - 130	3	20
1,2-Dichloropropane	<0.20		50.0	48.9		ug/L		98	75 - 120	3	20
1,3,5-Trimethylbenzene	23		50.0	72.1		ug/L		98	75 - 121	5	20
1,3-Dichlorobenzene	<0.15		50.0	49.8		ug/L		100	75 - 120	4	20
1,3-Dichloropropane	<0.13		50.0	48.8		ug/L		98	77 - 124	6	20
1,4-Dichlorobenzene	<0.15		50.0	48.7		ug/L		97	75 - 120	5	20
2,2-Dichloropropane	<0.32		50.0	49.4		ug/L		99	65 - 132	1	20
2-Chlorotoluene	<0.21		50.0	48.6		ug/L		97	75 - 120	5	20
4-Chlorotoluene	<0.20		50.0	51.4		ug/L		103	75 - 120	3	20
Benzene	<0.074		50.0	50.3		ug/L		101	75 - 120	4	20
Bromobenzene	<0.25		50.0	51.1		ug/L		102	75 - 120	3	20
Bromochloromethane	<0.40		50.0	52.8		ug/L		106	76 - 120	1	20
Bromodichloromethane	<0.17		50.0	50.8		ug/L		102	77 - 121	1	20
Bromoform	<0.28		50.0	46.3		ug/L		93	68 - 126	3	20
Bromomethane	<0.31		50.0	55.7		ug/L		111	45 - 169	7	20
Carbon tetrachloride	<0.26		50.0	52.0		ug/L		104	70 - 130	2	20

TestAmerica Chicago

QC Sample Results

Client: TRC Environmental Corporation.
Project/Site: Former CMC Shops Wheelhouse 232269

TestAmerica Job ID: 500-94066-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 500-94066-32 MSD

Matrix: Water

Analysis Batch: 283235

Client Sample ID: GP-1

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chlorobenzene	<0.14		50.0	50.4		ug/L		101	75 - 120	3	20
Chloroethane	<0.34		50.0	46.8		ug/L		94	58 - 147	3	20
Chloroform	<0.20		50.0	49.4		ug/L		99	76 - 120	4	20
Chloromethane	<0.18		50.0	43.8		ug/L		88	63 - 133	4	20
cis-1,2-Dichloroethene	<0.12		50.0	51.8		ug/L		104	75 - 120	2	20
cis-1,3-Dichloropropene	<0.18		50.0	46.0		ug/L		92	78 - 130	3	20
Dibromochloromethane	<0.32		50.0	47.1		ug/L		94	71 - 126	6	20
Dibromomethane	<0.33		50.0	52.4		ug/L		105	75 - 120	2	20
Dichlorodifluoromethane	<0.20		50.0	53.8		ug/L		108	41 - 146	3	20
Ethylbenzene	0.38	J	50.0	50.0		ug/L		100	75 - 120	3	20
Hexachlorobutadiene	<0.26		50.0	51.6		ug/L		103	71 - 131	7	20
Isopropylbenzene	5.4		50.0	53.9		ug/L		97	75 - 121	7	20
Methyl tert-butyl ether	<0.24		50.0	52.7		ug/L		105	75 - 130	1	20
Methylene Chloride	<0.68		50.0	53.2		ug/L		106	73 - 130	1	20
Naphthalene	2.2		50.0	60.8		ug/L		117	69 - 135	3	20
n-Butylbenzene	5.1		50.0	54.4		ug/L		99	75 - 121	3	20
N-Propylbenzene	8.9		50.0	59.0		ug/L		100	75 - 120	5	20
p-Isopropyltoluene	<0.17		50.0	49.6		ug/L		99	75 - 121	5	20
sec-Butylbenzene	4.3		50.0	53.1		ug/L		98	75 - 120	7	20
Styrene	<0.10		50.0	50.6		ug/L		101	75 - 120	3	20
tert-Butylbenzene	<0.14		50.0	51.1		ug/L		102	75 - 123	6	20
Tetrachloroethene	<0.17		50.0	50.6		ug/L		101	75 - 120	6	20
Toluene	<0.11		50.0	48.4		ug/L		97	75 - 120	5	20
trans-1,2-Dichloroethene	<0.25		50.0	51.1		ug/L		102	77 - 120	2	20
trans-1,3-Dichloropropene	<0.21		50.0	52.9		ug/L		106	74 - 130	5	20
Trichloroethene	<0.19		50.0	51.4		ug/L		103	75 - 120	1	20
Trichlorofluoromethane	<0.19		50.0	51.7		ug/L		103	71 - 130	1	20
Vinyl chloride	<0.10		50.0	54.2		ug/L		108	72 - 123	1	20
Xylenes, Total	14		100	114		ug/L		100	75 - 120	4	20

Surrogate	MSD %Recovery	MSD Qualifier	MSD Limits
1,2-Dichloroethane-d4 (Surr)	103		75 - 125
4-Bromofluorobenzene (Surr)	103		75 - 120
Dibromofluoromethane	106		75 - 120
Toluene-d8 (Surr)	100		75 - 120

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 500-282339/1-A

Matrix: Solid

Analysis Batch: 282665

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 282339

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	<8.1		33	8.1	ug/Kg		04/03/15 07:28	04/06/15 23:12	1
2-Methylnaphthalene	<6.1		33	6.1	ug/Kg		04/03/15 07:28	04/06/15 23:12	1
Acenaphthene	<6.0		33	6.0	ug/Kg		04/03/15 07:28	04/06/15 23:12	1
Acenaphthylene	<4.4		33	4.4	ug/Kg		04/03/15 07:28	04/06/15 23:12	1
Anthracene	<5.6		33	5.6	ug/Kg		04/03/15 07:28	04/06/15 23:12	1

TestAmerica Chicago

QC Sample Results

Client: TRC Environmental Corporation.
Project/Site: Former CMC Shops Wheelhouse 232269

TestAmerica Job ID: 500-94066-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 500-282339/1-A

Matrix: Solid

Analysis Batch: 282665

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 282339

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]anthracene	<4.5		33	4.5	ug/Kg		04/03/15 07:28	04/06/15 23:12	1
Benzo[a]pyrene	<6.4		33	6.4	ug/Kg		04/03/15 07:28	04/06/15 23:12	1
Benzo[b]fluoranthene	<7.2		33	7.2	ug/Kg		04/03/15 07:28	04/06/15 23:12	1
Benzo[g,h,i]perylene	<11		33	11	ug/Kg		04/03/15 07:28	04/06/15 23:12	1
Benzo[k]fluoranthene	<9.8		33	9.8	ug/Kg		04/03/15 07:28	04/06/15 23:12	1
Chrysene	<9.1		33	9.1	ug/Kg		04/03/15 07:28	04/06/15 23:12	1
Dibenz(a,h)anthracene	<6.4		33	6.4	ug/Kg		04/03/15 07:28	04/06/15 23:12	1
Fluoranthene	<6.2		33	6.2	ug/Kg		04/03/15 07:28	04/06/15 23:12	1
Fluorene	<4.7		33	4.7	ug/Kg		04/03/15 07:28	04/06/15 23:12	1
Indeno[1,2,3-cd]pyrene	<8.6		33	8.6	ug/Kg		04/03/15 07:28	04/06/15 23:12	1
Naphthalene	<5.1		33	5.1	ug/Kg		04/03/15 07:28	04/06/15 23:12	1
Phenanthrene	<4.6		33	4.6	ug/Kg		04/03/15 07:28	04/06/15 23:12	1
Pyrene	<6.6		33	6.6	ug/Kg		04/03/15 07:28	04/06/15 23:12	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	98		25 - 119	04/03/15 07:28	04/06/15 23:12	1
Nitrobenzene-d5 (Surr)	88		25 - 115	04/03/15 07:28	04/06/15 23:12	1
Terphenyl-d14 (Surr)	105		36 - 134	04/03/15 07:28	04/06/15 23:12	1

Lab Sample ID: LCS 500-282339/2-A

Matrix: Solid

Analysis Batch: 282665

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 282339

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1-Methylnaphthalene	1330	1220		ug/Kg		91	50 - 110
2-Methylnaphthalene	1330	1170		ug/Kg		88	49 - 110
Acenaphthene	1330	1240		ug/Kg		93	47 - 110
Acenaphthylene	1330	1280		ug/Kg		96	51 - 113
Anthracene	1330	1230		ug/Kg		92	53 - 121
Benzo[a]anthracene	1330	1360		ug/Kg		102	52 - 113
Benzo[a]pyrene	1330	1280		ug/Kg		96	52 - 110
Benzo[b]fluoranthene	1330	1210		ug/Kg		91	49 - 118
Benzo[g,h,i]perylene	1330	1160		ug/Kg		87	53 - 115
Benzo[k]fluoranthene	1330	1260		ug/Kg		94	46 - 115
Chrysene	1330	1340		ug/Kg		101	51 - 112
Dibenz(a,h)anthracene	1330	1220		ug/Kg		92	48 - 113
Fluoranthene	1330	1260		ug/Kg		95	53 - 122
Fluorene	1330	1270		ug/Kg		95	51 - 119
Indeno[1,2,3-cd]pyrene	1330	1240		ug/Kg		93	49 - 113
Naphthalene	1330	1140		ug/Kg		86	49 - 110
Phenanthrene	1330	1200		ug/Kg		90	54 - 120
Pyrene	1330	1260		ug/Kg		94	54 - 119

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2-Fluorobiphenyl	103		25 - 119
Nitrobenzene-d5 (Surr)	90		25 - 115
Terphenyl-d14 (Surr)	114		36 - 134

TestAmerica Chicago

QC Sample Results

Client: TRC Environmental Corporation.
Project/Site: Former CMC Shops Wheelhouse 232269

TestAmerica Job ID: 500-94066-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 500-94066-1 MS

Matrix: Solid

Analysis Batch: 282885

Client Sample ID: GP-1 (2-4)

Prep Type: Total/NA

Prep Batch: 282339

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1-Methylnaphthalene	<8.8		1500	964		ug/Kg	☼	64	50 - 110
2-Methylnaphthalene	7.3	J	1500	929		ug/Kg	☼	61	49 - 110
Acenaphthene	<6.5		1500	824		ug/Kg	☼	55	47 - 110
Acenaphthylene	<4.8		1500	870		ug/Kg	☼	58	51 - 113
Anthracene	<6.0		1500	947		ug/Kg	☼	63	53 - 121
Benzo[a]anthracene	30	J	1500	886		ug/Kg	☼	57	52 - 113
Benzo[a]pyrene	28	J	1500	991		ug/Kg	☼	64	52 - 110
Benzo[b]fluoranthene	37		1500	978		ug/Kg	☼	63	49 - 118
Benzo[g,h,i]perylene	29	J F2 F1	1500	1160		ug/Kg	☼	76	53 - 115
Benzo[k]fluoranthene	22	J	1500	1220		ug/Kg	☼	80	46 - 115
Chrysene	30	J	1500	1070		ug/Kg	☼	70	51 - 112
Dibenz(a,h)anthracene	<7.0		1500	1040		ug/Kg	☼	70	48 - 113
Fluoranthene	48	F1	1500	657	F1	ug/Kg	☼	41	53 - 122
Fluorene	<5.1		1500	907		ug/Kg	☼	60	51 - 119
Indeno[1,2,3-cd]pyrene	24	J	1500	1100		ug/Kg	☼	72	49 - 113
Naphthalene	<5.6		1500	761		ug/Kg	☼	51	49 - 110
Phenanthrene	54		1500	881		ug/Kg	☼	55	54 - 120
Pyrene	44		1500	1720		ug/Kg	☼	112	54 - 119

Surrogate	MS %Recovery	MS Qualifier	Limits
2-Fluorobiphenyl	54		25 - 119
Nitrobenzene-d5 (Surr)	41		25 - 115
Terphenyl-d14 (Surr)	122		36 - 134

Lab Sample ID: 500-94066-1 MSD

Matrix: Solid

Analysis Batch: 282885

Client Sample ID: GP-1 (2-4)

Prep Type: Total/NA

Prep Batch: 282339

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1-Methylnaphthalene	<8.8		1490	904		ug/Kg	☼	61	50 - 110	7	30
2-Methylnaphthalene	7.3	J	1490	891		ug/Kg	☼	60	49 - 110	4	30
Acenaphthene	<6.5		1490	810		ug/Kg	☼	55	47 - 110	2	30
Acenaphthylene	<4.8		1490	855		ug/Kg	☼	58	51 - 113	2	30
Anthracene	<6.0		1490	902		ug/Kg	☼	61	53 - 121	5	30
Benzo[a]anthracene	30	J	1490	886		ug/Kg	☼	58	52 - 113	0	30
Benzo[a]pyrene	28	J	1490	949		ug/Kg	☼	62	52 - 110	4	30
Benzo[b]fluoranthene	37		1490	912		ug/Kg	☼	59	49 - 118	7	30
Benzo[g,h,i]perylene	29	J F2 F1	1490	805	F1 F2	ug/Kg	☼	52	53 - 115	36	30
Benzo[k]fluoranthene	22	J	1490	1270		ug/Kg	☼	84	46 - 115	4	30
Chrysene	30	J	1490	1010		ug/Kg	☼	66	51 - 112	6	30
Dibenz(a,h)anthracene	<7.0		1490	774		ug/Kg	☼	52	48 - 113	30	30
Fluoranthene	48	F1	1490	745	F1	ug/Kg	☼	47	53 - 122	13	30
Fluorene	<5.1		1490	910		ug/Kg	☼	61	51 - 119	0	30
Indeno[1,2,3-cd]pyrene	24	J	1490	817		ug/Kg	☼	53	49 - 113	29	30
Naphthalene	<5.6		1490	751		ug/Kg	☼	51	49 - 110	1	30
Phenanthrene	54		1490	865		ug/Kg	☼	55	54 - 120	2	30
Pyrene	44		1490	1670		ug/Kg	☼	109	54 - 119	3	30

TestAmerica Chicago

QC Sample Results

Client: TRC Environmental Corporation.
Project/Site: Former CMC Shops Wheelhouse 232269

TestAmerica Job ID: 500-94066-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 500-94066-1 MSD

Matrix: Solid

Analysis Batch: 282885

Client Sample ID: GP-1 (2-4)

Prep Type: Total/NA

Prep Batch: 282339

Surrogate	MSD %Recovery	MSD Qualifier	Limits
2-Fluorobiphenyl	50		25 - 119
Nitrobenzene-d5 (Surr)	40		25 - 115
Terphenyl-d14 (Surr)	120		36 - 134

Lab Sample ID: MB 500-282689/1-A

Matrix: Solid

Analysis Batch: 282767

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 282689

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	<8.1		33	8.1	ug/Kg		04/07/15 07:23	04/07/15 17:27	1
2-Methylnaphthalene	<6.1		33	6.1	ug/Kg		04/07/15 07:23	04/07/15 17:27	1
Acenaphthene	<6.0		33	6.0	ug/Kg		04/07/15 07:23	04/07/15 17:27	1
Acenaphthylene	<4.4		33	4.4	ug/Kg		04/07/15 07:23	04/07/15 17:27	1
Anthracene	<5.6		33	5.6	ug/Kg		04/07/15 07:23	04/07/15 17:27	1
Benzo[a]anthracene	<4.5		33	4.5	ug/Kg		04/07/15 07:23	04/07/15 17:27	1
Benzo[a]pyrene	<6.4		33	6.4	ug/Kg		04/07/15 07:23	04/07/15 17:27	1
Benzo[b]fluoranthene	<7.2		33	7.2	ug/Kg		04/07/15 07:23	04/07/15 17:27	1
Benzo[g,h,i]perylene	<11		33	11	ug/Kg		04/07/15 07:23	04/07/15 17:27	1
Benzo[k]fluoranthene	<9.8		33	9.8	ug/Kg		04/07/15 07:23	04/07/15 17:27	1
Chrysene	<9.1		33	9.1	ug/Kg		04/07/15 07:23	04/07/15 17:27	1
Dibenz(a,h)anthracene	<6.4		33	6.4	ug/Kg		04/07/15 07:23	04/07/15 17:27	1
Fluoranthene	<6.2		33	6.2	ug/Kg		04/07/15 07:23	04/07/15 17:27	1
Fluorene	<4.7		33	4.7	ug/Kg		04/07/15 07:23	04/07/15 17:27	1
Indeno[1,2,3-cd]pyrene	<8.6		33	8.6	ug/Kg		04/07/15 07:23	04/07/15 17:27	1
Naphthalene	<5.1		33	5.1	ug/Kg		04/07/15 07:23	04/07/15 17:27	1
Phenanthrene	<4.6		33	4.6	ug/Kg		04/07/15 07:23	04/07/15 17:27	1
Pyrene	<6.6		33	6.6	ug/Kg		04/07/15 07:23	04/07/15 17:27	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	101		25 - 119	04/07/15 07:23	04/07/15 17:27	1
Nitrobenzene-d5 (Surr)	101		25 - 115	04/07/15 07:23	04/07/15 17:27	1
Terphenyl-d14 (Surr)	116		36 - 134	04/07/15 07:23	04/07/15 17:27	1

Lab Sample ID: LCS 500-282689/2-A

Matrix: Solid

Analysis Batch: 282767

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 282689

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1-Methylnaphthalene	1330	1320		ug/Kg		99	50 - 110
2-Methylnaphthalene	1330	1320		ug/Kg		99	49 - 110
Acenaphthene	1330	1290		ug/Kg		96	47 - 110
Acenaphthylene	1330	1300		ug/Kg		97	51 - 113
Anthracene	1330	1360		ug/Kg		102	53 - 121
Benzo[a]anthracene	1330	1310		ug/Kg		98	52 - 113
Benzo[a]pyrene	1330	1370		ug/Kg		103	52 - 110
Benzo[b]fluoranthene	1330	1430		ug/Kg		107	49 - 118
Benzo[g,h,i]perylene	1330	1370		ug/Kg		103	53 - 115
Benzo[k]fluoranthene	1330	1410		ug/Kg		105	46 - 115

TestAmerica Chicago

QC Sample Results

Client: TRC Environmental Corporation.
Project/Site: Former CMC Shops Wheelhouse 232269

TestAmerica Job ID: 500-94066-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 500-282689/2-A

Matrix: Solid

Analysis Batch: 282767

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 282689

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chrysene	1330	1310		ug/Kg		98	51 - 112
Dibenz(a,h)anthracene	1330	1370		ug/Kg		102	48 - 113
Fluoranthene	1330	1390		ug/Kg		104	53 - 122
Fluorene	1330	1340		ug/Kg		100	51 - 119
Indeno[1,2,3-cd]pyrene	1330	1330		ug/Kg		100	49 - 113
Naphthalene	1330	1300		ug/Kg		98	49 - 110
Phenanthrene	1330	1360		ug/Kg		102	54 - 120
Pyrene	1330	1340		ug/Kg		100	54 - 119

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2-Fluorobiphenyl	101		25 - 119
Nitrobenzene-d5 (Surr)	102		25 - 115
Terphenyl-d14 (Surr)	116		36 - 134

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 500-282335/1-A

Matrix: Solid

Analysis Batch: 282489

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 282335

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<5.9		17	5.9	ug/Kg		04/03/15 07:22	04/04/15 08:41	1
PCB-1221	<7.3		17	7.3	ug/Kg		04/03/15 07:22	04/04/15 08:41	1
PCB-1232	<7.3		17	7.3	ug/Kg		04/03/15 07:22	04/04/15 08:41	1
PCB-1242	<5.5		17	5.5	ug/Kg		04/03/15 07:22	04/04/15 08:41	1
PCB-1248	<6.6		17	6.6	ug/Kg		04/03/15 07:22	04/04/15 08:41	1
PCB-1254	<3.6		17	3.6	ug/Kg		04/03/15 07:22	04/04/15 08:41	1
PCB-1260	<8.2		17	8.2	ug/Kg		04/03/15 07:22	04/04/15 08:41	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	86		50 - 116	04/03/15 07:22	04/04/15 08:41	1
DCB Decachlorobiphenyl	93		48 - 142	04/03/15 07:22	04/04/15 08:41	1

Lab Sample ID: LCS 500-282335/2-A

Matrix: Solid

Analysis Batch: 282489

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 282335

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
PCB-1016	167	141		ug/Kg		84	59 - 110
PCB-1260	167	144		ug/Kg		86	69 - 120

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Tetrachloro-m-xylene	85		50 - 116
DCB Decachlorobiphenyl	88		48 - 142

TestAmerica Chicago

QC Sample Results

Client: TRC Environmental Corporation.
Project/Site: Former CMC Shops Wheelhouse 232269

TestAmerica Job ID: 500-94066-1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Lab Sample ID: 500-94066-1 MS

Matrix: Solid

Analysis Batch: 282489

Client Sample ID: GP-1 (2-4)

Prep Type: Total/NA

Prep Batch: 282335

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
PCB-1016	<6.4		181	170		ug/Kg	✱	94	59 - 110
PCB-1260	<8.9		181	173		ug/Kg	✱	96	69 - 120
Surrogate	MS %Recovery	MS Qualifier	Limits						
Tetrachloro-m-xylene	81		50 - 116						
DCB Decachlorobiphenyl	88		48 - 142						

Lab Sample ID: 500-94066-1 MSD

Matrix: Solid

Analysis Batch: 282489

Client Sample ID: GP-1 (2-4)

Prep Type: Total/NA

Prep Batch: 282335

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
PCB-1016	<6.4		184	171		ug/Kg	✱	93	59 - 110	1	30
PCB-1260	<8.9		184	173		ug/Kg	✱	94	69 - 120	0	30
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
Tetrachloro-m-xylene	82		50 - 116								
DCB Decachlorobiphenyl	87		48 - 142								

Lab Sample ID: MB 500-282371/1-A

Matrix: Water

Analysis Batch: 282488

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 282371

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.067		0.40	0.067	ug/L		04/03/15 09:11	04/04/15 08:20	1
PCB-1221	<0.20		0.40	0.20	ug/L		04/03/15 09:11	04/04/15 08:20	1
PCB-1232	<0.20		0.40	0.20	ug/L		04/03/15 09:11	04/04/15 08:20	1
PCB-1242	<0.20		0.40	0.20	ug/L		04/03/15 09:11	04/04/15 08:20	1
PCB-1248	<0.20		0.40	0.20	ug/L		04/03/15 09:11	04/04/15 08:20	1
PCB-1254	<0.20		0.40	0.20	ug/L		04/03/15 09:11	04/04/15 08:20	1
PCB-1260	<0.070		0.40	0.070	ug/L		04/03/15 09:11	04/04/15 08:20	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	66		50 - 120				04/03/15 09:11	04/04/15 08:20	1
DCB Decachlorobiphenyl	98		29 - 126				04/03/15 09:11	04/04/15 08:20	1

Lab Sample ID: LCS 500-282371/2-A

Matrix: Water

Analysis Batch: 282488

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 282371

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
PCB-1016	4.00	3.20		ug/L		80	70 - 130
PCB-1260	4.00	3.33		ug/L		83	70 - 130
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
Tetrachloro-m-xylene	66		50 - 120				
DCB Decachlorobiphenyl	81		29 - 126				

TestAmerica Chicago

QC Sample Results

Client: TRC Environmental Corporation.
Project/Site: Former CMC Shops Wheelhouse 232269

TestAmerica Job ID: 500-94066-1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Lab Sample ID: LCSD 500-282371/3-A

Matrix: Water

Analysis Batch: 282488

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 282371

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
PCB-1016	4.00	3.36		ug/L		84	70 - 130	5	20
PCB-1260	4.00	3.56		ug/L		89	70 - 130	7	20
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
Tetrachloro-m-xylene	60		50 - 120						
DCB Decachlorobiphenyl	92		29 - 126						

Lab Sample ID: MB 500-282643/1-A

Matrix: Solid

Analysis Batch: 282711

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 282643

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<5.9		17	5.9	ug/Kg		04/06/15 15:45	04/07/15 09:37	1
PCB-1221	<7.3		17	7.3	ug/Kg		04/06/15 15:45	04/07/15 09:37	1
PCB-1232	<7.3		17	7.3	ug/Kg		04/06/15 15:45	04/07/15 09:37	1
PCB-1242	<5.5		17	5.5	ug/Kg		04/06/15 15:45	04/07/15 09:37	1
PCB-1248	<6.6		17	6.6	ug/Kg		04/06/15 15:45	04/07/15 09:37	1
PCB-1254	<3.6		17	3.6	ug/Kg		04/06/15 15:45	04/07/15 09:37	1
PCB-1260	<8.2		17	8.2	ug/Kg		04/06/15 15:45	04/07/15 09:37	1
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac	
Tetrachloro-m-xylene	68		50 - 116			04/06/15 15:45	04/07/15 09:37	1	
DCB Decachlorobiphenyl	74		48 - 142			04/06/15 15:45	04/07/15 09:37	1	

Lab Sample ID: LCS 500-282643/2-A

Matrix: Solid

Analysis Batch: 282711

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 282643

Analyte			Spike	LCS	LCS	Unit	D	%Rec	%Rec.		
			Added	Result	Qualifier			Limits			
PCB-1016			167	113		ug/Kg		68	59 - 110		
PCB-1260			167	125		ug/Kg		75	69 - 120		
	</										

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 500-282530/1-A

Matrix: Solid

Analysis Batch: 282693

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 282530

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.46		1.0	0.46	mg/Kg		04/05/15 18:00	04/06/15 15:09	1
Barium	<0.18		1.0	0.18	mg/Kg		04/05/15 18:00	04/06/15 15:09	1
Cadmium	<0.058		0.20	0.058	mg/Kg		04/05/15 18:00	04/06/15 15:09	1
Chromium	<0.17		1.0	0.17	mg/Kg		04/05/15 18:00	04/06/15 15:09	1

TestAmerica Chicago

QC Sample Results

Client: TRC Environmental Corporation.
Project/Site: Former CMC Shops Wheelhouse 232269

TestAmerica Job ID: 500-94066-1

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: MB 500-282530/1-A

Matrix: Solid

Analysis Batch: 282693

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 282530

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	<0.25		0.50	0.25	mg/Kg		04/05/15 18:00	04/06/15 15:09	1
Selenium	<0.50		1.0	0.50	mg/Kg		04/05/15 18:00	04/06/15 15:09	1
Silver	<0.12		0.50	0.12	mg/Kg		04/05/15 18:00	04/06/15 15:09	1

Lab Sample ID: LCS 500-282530/2-A

Matrix: Solid

Analysis Batch: 282693

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 282530

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	10.0	9.80		mg/Kg		98	80 - 120
Barium	200	196		mg/Kg		98	80 - 120
Cadmium	5.00	4.71		mg/Kg		94	80 - 120
Chromium	20.0	19.9		mg/Kg		100	80 - 120
Lead	10.0	9.20		mg/Kg		92	80 - 120
Selenium	10.0	8.47		mg/Kg		85	80 - 120
Silver	5.00	4.66		mg/Kg		93	80 - 120

Lab Sample ID: 500-94066-9 MS

Matrix: Solid

Analysis Batch: 282693

Client Sample ID: GP-4 (2-4)

Prep Type: Total/NA

Prep Batch: 282530

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	4.0		10.7	13.4		mg/Kg	☼	89	75 - 125
Barium	12	V	214	206		mg/Kg	☼	91	75 - 125
Cadmium	0.31		5.34	5.25		mg/Kg	☼	93	75 - 125
Chromium	5.6		21.4	27.8		mg/Kg	☼	104	75 - 125
Lead	27	F1	10.7	26.3	F1	mg/Kg	☼	-5	75 - 125
Selenium	<0.51		10.7	9.74		mg/Kg	☼	91	75 - 125
Silver	<0.12		5.34	5.13		mg/Kg	☼	96	75 - 125

Lab Sample ID: 500-94066-9 MSD

Matrix: Solid

Analysis Batch: 282693

Client Sample ID: GP-4 (2-4)

Prep Type: Total/NA

Prep Batch: 282530

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Arsenic	4.0		9.21	13.2		mg/Kg	☼	100	75 - 125	2	20
Barium	12	V	184	178		mg/Kg	☼	90	75 - 125	15	20
Cadmium	0.31		4.60	4.59		mg/Kg	☼	93	75 - 125	14	20
Chromium	5.6		18.4	24.3		mg/Kg	☼	102	75 - 125	13	20
Lead	27	F1	9.21	23.7	F1	mg/Kg	☼	-34	75 - 125	11	20
Selenium	<0.51		9.21	8.09		mg/Kg	☼	88	75 - 125	19	20
Silver	<0.12		4.60	4.37		mg/Kg	☼	95	75 - 125	16	20

Lab Sample ID: 500-94066-9 DU

Matrix: Solid

Analysis Batch: 282693

Client Sample ID: GP-4 (2-4)

Prep Type: Total/NA

Prep Batch: 282530

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Arsenic	4.0		3.65		mg/Kg	☼	8	20

TestAmerica Chicago

QC Sample Results

Client: TRC Environmental Corporation.
Project/Site: Former CMC Shops Wheelhouse 232269

TestAmerica Job ID: 500-94066-1

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: 500-94066-9 DU

Matrix: Solid

Analysis Batch: 282693

Client Sample ID: GP-4 (2-4)

Prep Type: Total/NA

Prep Batch: 282530

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
Barium	12	V	12.3		mg/Kg	✱	4	20
Cadmium	0.31		0.243	F5	mg/Kg	✱	23	20
Chromium	5.6		5.91		mg/Kg	✱	6	20
Lead	27	F1	19.2	F3	mg/Kg	✱	33	20
Selenium	<0.51		<0.48		mg/Kg	✱	NC	20
Silver	<0.12		<0.11		mg/Kg	✱	NC	20

Lab Sample ID: MB 500-282656/1-A

Matrix: Solid

Analysis Batch: 282874

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 282656

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.46		1.0	0.46	mg/Kg		04/06/15 16:47	04/07/15 14:14	1
Barium	<0.18		1.0	0.18	mg/Kg		04/06/15 16:47	04/07/15 14:14	1
Cadmium	<0.058		0.20	0.058	mg/Kg		04/06/15 16:47	04/07/15 14:14	1
Chromium	<0.17		1.0	0.17	mg/Kg		04/06/15 16:47	04/07/15 14:14	1
Lead	<0.25		0.50	0.25	mg/Kg		04/06/15 16:47	04/07/15 14:14	1
Selenium	<0.50		1.0	0.50	mg/Kg		04/06/15 16:47	04/07/15 14:14	1
Silver	<0.12		0.50	0.12	mg/Kg		04/06/15 16:47	04/07/15 14:14	1

Lab Sample ID: LCS 500-282656/2-A

Matrix: Solid

Analysis Batch: 282874

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 282656

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	10.0	9.90		mg/Kg		99	80 - 120
Barium	200	192		mg/Kg		96	80 - 120
Cadmium	5.00	4.79		mg/Kg		96	80 - 120
Chromium	20.0	19.7		mg/Kg		99	80 - 120
Lead	10.0	9.78		mg/Kg		98	80 - 120
Selenium	10.0	9.10		mg/Kg		91	80 - 120
Silver	5.00	4.87		mg/Kg		97	80 - 120

Method: 6020 - Metals (ICP/MS)

Lab Sample ID: MB 500-282395/1-A

Matrix: Water

Analysis Batch: 282566

Client Sample ID: Method Blank

Prep Type: Total Recoverable

Prep Batch: 282395

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.44		1.0	0.44	ug/L		04/03/15 09:55	04/03/15 15:28	1
Barium	<0.84		2.5	0.84	ug/L		04/03/15 09:55	04/03/15 15:28	1
Cadmium	<0.19		0.50	0.19	ug/L		04/03/15 09:55	04/03/15 15:28	1
Chromium	<0.61		5.0	0.61	ug/L		04/03/15 09:55	04/03/15 15:28	1
Lead	<0.14		0.50	0.14	ug/L		04/03/15 09:55	04/03/15 15:28	1
Selenium	<0.83		2.5	0.83	ug/L		04/03/15 09:55	04/03/15 15:28	1
Silver	<0.080		0.50	0.080	ug/L		04/03/15 09:55	04/03/15 15:28	1

TestAmerica Chicago

QC Sample Results

Client: TRC Environmental Corporation.
Project/Site: Former CMC Shops Wheelhouse 232269

TestAmerica Job ID: 500-94066-1

Method: 6020 - Metals (ICP/MS) (Continued)

Lab Sample ID: LCS 500-282395/2-A

Matrix: Water

Analysis Batch: 282566

Client Sample ID: Lab Control Sample

Prep Type: Total Recoverable

Prep Batch: 282395

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	100	98.7		ug/L		99	80 - 120
Barium	500	495		ug/L		99	80 - 120
Cadmium	50.0	50.7		ug/L		101	80 - 120
Chromium	200	204		ug/L		102	80 - 120
Lead	100	103		ug/L		103	80 - 120
Selenium	100	99.8		ug/L		100	80 - 120
Silver	50.0	52.0		ug/L		104	80 - 120

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 500-282400/12-A

Matrix: Water

Analysis Batch: 282621

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 282400

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.061		0.20	0.061	ug/L		04/03/15 11:30	04/06/15 08:38	1

Lab Sample ID: LCS 500-282400/13-A

Matrix: Water

Analysis Batch: 282621

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 282400

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	2.00	2.24		ug/L		112	80 - 120

Method: 7471A - Mercury (CVAA)

Lab Sample ID: MB 500-282433/12-A

Matrix: Solid

Analysis Batch: 282615

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 282433

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.0058		0.017	0.0058	mg/Kg		04/03/15 14:00	04/06/15 09:06	1

Lab Sample ID: LCS 500-282433/13-A

Matrix: Solid

Analysis Batch: 282615

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 282433

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.167	0.183		mg/Kg		109	80 - 120

Lab Sample ID: 500-94066-7 MS

Matrix: Solid

Analysis Batch: 282615

Client Sample ID: GP-3 (2-4)

Prep Type: Total/NA

Prep Batch: 282433

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.0072	J	0.0820	0.0992		mg/Kg	✱	112	80 - 120

TestAmerica Chicago

QC Sample Results

Client: TRC Environmental Corporation.
Project/Site: Former CMC Shops Wheelhouse 232269

TestAmerica Job ID: 500-94066-1

Method: 7471A - Mercury (CVAA) (Continued)

Lab Sample ID: 500-94066-7 MSD

Matrix: Solid

Analysis Batch: 282615

Client Sample ID: GP-3 (2-4)

Prep Type: Total/NA

Prep Batch: 282433

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	0.0072	J	0.0863	0.104		mg/Kg	✱	113	80 - 120	5	20

Lab Sample ID: 500-94066-7 DU

Matrix: Solid

Analysis Batch: 282615

Client Sample ID: GP-3 (2-4)

Prep Type: Total/NA

Prep Batch: 282433

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Mercury	0.0072	J	<0.0059		mg/Kg	✱	NC	20

Lab Sample ID: MB 500-282437/12-A

Matrix: Solid

Analysis Batch: 282615

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 282437

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.0058		0.017	0.0058	mg/Kg		04/03/15 14:00	04/06/15 10:07	1

Lab Sample ID: LCS 500-282437/13-A

Matrix: Solid

Analysis Batch: 282615

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 282437

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.167	0.181		mg/Kg		108	80 - 120

Lab Sample ID: MB 500-282616/12-A

Matrix: Solid

Analysis Batch: 282726

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 282616

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00692	J	0.017	0.0058	mg/Kg		04/06/15 14:00	04/07/15 09:07	1

Lab Sample ID: LCS 500-282616/13-A

Matrix: Solid

Analysis Batch: 282726

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 282616

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.167	0.170		mg/Kg		102	80 - 120

Lab Sample ID: MB 500-282740/12-A

Matrix: Solid

Analysis Batch: 282910

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 282740

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.0058		0.017	0.0058	mg/Kg		04/07/15 14:00	04/08/15 08:56	1

Lab Sample ID: LCS 500-282740/13-A

Matrix: Solid

Analysis Batch: 282910

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 282740

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.167	0.176		mg/Kg		105	80 - 120

TestAmerica Chicago

QC Sample Results

Client: TRC Environmental Corporation.
Project/Site: Former CMC Shops Wheelhouse 232269

TestAmerica Job ID: 500-94066-1

Lab Sample ID: 500-94066-10 MS
Matrix: Solid
Analysis Batch: 282910

Client Sample ID: GP-4 (6-8)
Prep Type: Total/NA
Prep Batch: 282740

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.026		0.105	0.134		mg/Kg	☼	103	80 - 120

Lab Sample ID: 500-94066-10 MSD
Matrix: Solid
Analysis Batch: 282910

Client Sample ID: GP-4 (6-8)
Prep Type: Total/NA
Prep Batch: 282740

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	0.026		0.106	0.135		mg/Kg	☼	102	80 - 120	1	20

Lab Sample ID: 500-94066-10 DU
Matrix: Solid
Analysis Batch: 282910

Client Sample ID: GP-4 (6-8)
Prep Type: Total/NA
Prep Batch: 282740

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Mercury	0.026		0.0246		mg/Kg	☼	8	20

Lab Chronicle

Client: TRC Environmental Corporation.
Project/Site: Former CMC Shops Wheelhouse 232269

TestAmerica Job ID: 500-94066-1

Client Sample ID: GP-1 (2-4)

Date Collected: 03/30/15 00:00

Date Received: 04/02/15 09:30

Lab Sample ID: 500-94066-1

Matrix: Solid

Percent Solids: 88.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			282506	03/30/15 00:00	WRE	TAL CHI
Total/NA	Analysis	8260B		50	283042	04/09/15 12:36	TCT	TAL CHI
Total/NA	Prep	3541			282339	04/03/15 07:28	STW	TAL CHI
Total/NA	Analysis	8270D		1	283281	04/10/15 16:35	BJH	TAL CHI
Total/NA	Prep	3541			282335	04/03/15 07:22	STW	TAL CHI
Total/NA	Analysis	8082		1	282489	04/04/15 09:08	GMO	TAL CHI
Total/NA	Prep	3050B			282656	04/06/15 16:47	PJH	TAL CHI
Total/NA	Analysis	6010B		1	282874	04/07/15 14:57	PJ1	TAL CHI
Total/NA	Prep	7471A			282433	04/03/15 14:00	RLL	TAL CHI
Total/NA	Analysis	7471A		1	282615	04/06/15 09:10	RLL	TAL CHI
Total/NA	Analysis	Moisture		1	282267	04/02/15 15:44	MJD	TAL CHI

Client Sample ID: GP-1 (6-8)

Date Collected: 03/30/15 00:00

Date Received: 04/02/15 09:30

Lab Sample ID: 500-94066-2

Matrix: Solid

Percent Solids: 75.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			282506	03/30/15 00:00	WRE	TAL CHI
Total/NA	Analysis	8260B		50	283042	04/09/15 13:02	TCT	TAL CHI
Total/NA	Prep	3541			282339	04/03/15 07:28	STW	TAL CHI
Total/NA	Analysis	8270D		1	283281	04/10/15 16:54	BJH	TAL CHI
Total/NA	Prep	3541			282335	04/03/15 07:22	STW	TAL CHI
Total/NA	Analysis	8082		1	282489	04/04/15 09:49	GMO	TAL CHI
Total/NA	Prep	3050B			282656	04/06/15 16:47	PJH	TAL CHI
Total/NA	Analysis	6010B		1	282874	04/07/15 15:04	PJ1	TAL CHI
Total/NA	Prep	7471A			282433	04/03/15 14:00	RLL	TAL CHI
Total/NA	Analysis	7471A		1	282615	04/06/15 09:13	RLL	TAL CHI
Total/NA	Analysis	Moisture		1	282267	04/02/15 15:44	MJD	TAL CHI

Client Sample ID: GP-1 (14-16)

Date Collected: 03/30/15 00:00

Date Received: 04/02/15 09:30

Lab Sample ID: 500-94066-3

Matrix: Solid

Percent Solids: 69.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			282506	03/30/15 00:00	WRE	TAL CHI
Total/NA	Analysis	8260B		50	283042	04/09/15 13:52	TCT	TAL CHI
Total/NA	Analysis	Moisture		1	282267	04/02/15 15:44	MJD	TAL CHI

TestAmerica Chicago

Lab Chronicle

Client: TRC Environmental Corporation.
Project/Site: Former CMC Shops Wheelhouse 232269

TestAmerica Job ID: 500-94066-1

Client Sample ID: GP-2 (4-6)

Date Collected: 03/30/15 00:00

Date Received: 04/02/15 09:30

Lab Sample ID: 500-94066-4

Matrix: Solid

Percent Solids: 70.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			282506	03/30/15 00:00	WRE	TAL CHI
Total/NA	Analysis	8260B		50	283042	04/09/15 14:18	TCT	TAL CHI
Total/NA	Prep	3541			282339	04/03/15 07:28	STW	TAL CHI
Total/NA	Analysis	8270D		1	282885	04/08/15 12:41	KDL	TAL CHI
Total/NA	Prep	3541			282335	04/03/15 07:22	STW	TAL CHI
Total/NA	Analysis	8082		1	282489	04/04/15 10:03	GMO	TAL CHI
Total/NA	Prep	3050B			282656	04/06/15 16:47	PJH	TAL CHI
Total/NA	Analysis	6010B		1	282874	04/07/15 15:10	PJ1	TAL CHI
Total/NA	Prep	7471A			282433	04/03/15 14:00	RLL	TAL CHI
Total/NA	Analysis	7471A		1	282615	04/06/15 09:15	RLL	TAL CHI
Total/NA	Analysis	Moisture		1	282267	04/02/15 15:44	MJD	TAL CHI

Client Sample ID: GP-2 (8-10)

Date Collected: 04/02/15 00:00

Date Received: 04/03/15 09:45

Lab Sample ID: 500-94066-5

Matrix: Solid

Percent Solids: 83.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			282506	03/02/15 00:00	WRE	TAL CHI
Total/NA	Analysis	8260B		50	283042	04/09/15 14:44	TCT	TAL CHI
Total/NA	Prep	3541			282689	04/07/15 07:23	STW	TAL CHI
Total/NA	Analysis	8270D		1	282885	04/08/15 17:46	KDL	TAL CHI
Total/NA	Prep	3541			282643	04/06/15 15:45	DEA	TAL CHI
Total/NA	Analysis	8082		1	282711	04/07/15 10:05	GMO	TAL CHI
Total/NA	Prep	3050B			282656	04/06/15 16:47	PJH	TAL CHI
Total/NA	Analysis	6010B		1	282874	04/07/15 15:31	PJ1	TAL CHI
Total/NA	Prep	7471A			282616	04/06/15 14:00	RLL	TAL CHI
Total/NA	Analysis	7471A		1	282726	04/07/15 09:11	RLL	TAL CHI
Total/NA	Analysis	Moisture		1	282565	04/06/15 09:38	JLC	TAL CHI

Client Sample ID: GP-2 (14-16)

Date Collected: 03/30/15 00:00

Date Received: 04/02/15 09:30

Lab Sample ID: 500-94066-6

Matrix: Solid

Percent Solids: 72.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			282506	03/30/15 00:00	WRE	TAL CHI
Total/NA	Analysis	8260B		50	283042	04/09/15 15:11	TCT	TAL CHI
Total/NA	Analysis	Moisture		1	282267	04/02/15 15:44	MJD	TAL CHI

TestAmerica Chicago

Lab Chronicle

Client: TRC Environmental Corporation.
Project/Site: Former CMC Shops Wheelhouse 232269

TestAmerica Job ID: 500-94066-1

Client Sample ID: GP-3 (2-4)

Date Collected: 03/30/15 00:00

Date Received: 04/02/15 09:30

Lab Sample ID: 500-94066-7

Matrix: Solid

Percent Solids: 93.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			282506	03/30/15 00:00	WRE	TAL CHI
Total/NA	Analysis	8260B		50	283042	04/09/15 15:38	TCT	TAL CHI
Total/NA	Prep	3541			282339	04/03/15 07:28	STW	TAL CHI
Total/NA	Analysis	8270D		1	282885	04/08/15 13:03	KDL	TAL CHI
Total/NA	Prep	3541			282335	04/03/15 07:22	STW	TAL CHI
Total/NA	Analysis	8082		1	282489	04/04/15 10:16	GMO	TAL CHI
Total/NA	Prep	3050B			282656	04/06/15 16:47	PJH	TAL CHI
Total/NA	Analysis	6010B		1	282874	04/07/15 15:37	PJ1	TAL CHI
Total/NA	Prep	7471A			282433	04/03/15 14:00	RLL	TAL CHI
Total/NA	Analysis	7471A		1	282615	04/06/15 09:17	RLL	TAL CHI
Total/NA	Analysis	Moisture		1	282267	04/02/15 15:44	MJD	TAL CHI

Client Sample ID: GP-3 (8-10)

Date Collected: 04/02/15 00:00

Date Received: 04/03/15 09:45

Lab Sample ID: 500-94066-8

Matrix: Solid

Percent Solids: 80.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			282506	03/02/15 00:00	WRE	TAL CHI
Total/NA	Analysis	8260B		50	283042	04/09/15 16:05	TCT	TAL CHI
Total/NA	Prep	3541	DL		282689	04/07/15 07:23	STW	TAL CHI
Total/NA	Analysis	8270D	DL	10	283281	04/10/15 20:08	BJH	TAL CHI
Total/NA	Prep	3541			282689	04/07/15 07:23	STW	TAL CHI
Total/NA	Analysis	8270D		1	282885	04/08/15 18:08	KDL	TAL CHI
Total/NA	Prep	3541			282643	04/06/15 15:45	DEA	TAL CHI
Total/NA	Analysis	8082		1	282711	04/07/15 10:19	GMO	TAL CHI
Total/NA	Prep	3050B			282656	04/06/15 16:47	PJH	TAL CHI
Total/NA	Analysis	6010B		1	282874	04/07/15 15:44	PJ1	TAL CHI
Total/NA	Prep	7471A			282616	04/06/15 14:00	RLL	TAL CHI
Total/NA	Analysis	7471A		1	282726	04/07/15 09:13	RLL	TAL CHI
Total/NA	Analysis	Moisture		1	282565	04/06/15 09:38	JLC	TAL CHI

Client Sample ID: GP-4 (2-4)

Date Collected: 03/30/15 00:00

Date Received: 04/02/15 09:30

Lab Sample ID: 500-94066-9

Matrix: Solid

Percent Solids: 93.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			282506	03/30/15 00:00	WRE	TAL CHI
Total/NA	Analysis	8260B		50	283042	04/09/15 16:32	TCT	TAL CHI
Total/NA	Prep	3541			282339	04/03/15 07:28	STW	TAL CHI
Total/NA	Analysis	8270D		1	282885	04/08/15 13:25	KDL	TAL CHI
Total/NA	Prep	3541			282335	04/03/15 07:22	STW	TAL CHI
Total/NA	Analysis	8082		1	282489	04/04/15 10:30	GMO	TAL CHI
Total/NA	Prep	3050B			282530	04/05/15 18:00	PJH	TAL CHI

TestAmerica Chicago

Lab Chronicle

Client: TRC Environmental Corporation.
Project/Site: Former CMC Shops Wheelhouse 232269

TestAmerica Job ID: 500-94066-1

Client Sample ID: GP-4 (2-4)

Lab Sample ID: 500-94066-9

Date Collected: 03/30/15 00:00

Matrix: Solid

Date Received: 04/02/15 09:30

Percent Solids: 93.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	6010B		1	282693	04/06/15 17:30	PJ1	TAL CHI
Total/NA	Prep	7471A			282433	04/03/15 14:00	RLL	TAL CHI
Total/NA	Analysis	7471A		1	282615	04/06/15 09:29	RLL	TAL CHI
Total/NA	Analysis	Moisture		1	282267	04/02/15 15:44	MJD	TAL CHI

Client Sample ID: GP-4 (6-8)

Lab Sample ID: 500-94066-10

Date Collected: 03/30/15 00:00

Matrix: Solid

Date Received: 04/02/15 09:30

Percent Solids: 70.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			282506	03/30/15 00:00	WRE	TAL CHI
Total/NA	Analysis	8260B		50	283042	04/09/15 17:00	TCT	TAL CHI
Total/NA	Prep	3541			282339	04/03/15 07:28	STW	TAL CHI
Total/NA	Analysis	8270D		1	283281	04/10/15 17:13	BJH	TAL CHI
Total/NA	Prep	3541	DL		282339	04/03/15 07:28	STW	TAL CHI
Total/NA	Analysis	8270D	DL	10	283407	04/11/15 17:23	GES	TAL CHI
Total/NA	Prep	3541			282335	04/03/15 07:22	STW	TAL CHI
Total/NA	Analysis	8082		1	282489	04/04/15 10:44	GMO	TAL CHI
Total/NA	Prep	3050B			282530	04/05/15 18:00	PJH	TAL CHI
Total/NA	Analysis	6010B		1	282693	04/06/15 15:48	PJ1	TAL CHI
Total/NA	Prep	7471A			282740	04/07/15 14:00	RLL	TAL CHI
Total/NA	Analysis	7471A		1	282910	04/08/15 09:00	RLL	TAL CHI
Total/NA	Analysis	Moisture		1	282267	04/02/15 15:44	MJD	TAL CHI

Client Sample ID: GP-5 (2-4)

Lab Sample ID: 500-94066-11

Date Collected: 03/30/15 00:00

Matrix: Solid

Date Received: 04/02/15 09:30

Percent Solids: 87.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			282506	03/30/15 00:00	WRE	TAL CHI
Total/NA	Analysis	8260B		50	283042	04/09/15 17:28	TCT	TAL CHI
Total/NA	Prep	3541			282339	04/03/15 07:28	STW	TAL CHI
Total/NA	Analysis	8270D		1	282885	04/08/15 14:08	KDL	TAL CHI
Total/NA	Prep	3541			282335	04/03/15 07:22	STW	TAL CHI
Total/NA	Analysis	8082		1	282489	04/04/15 11:11	GMO	TAL CHI
Total/NA	Prep	3050B			282530	04/05/15 18:00	PJH	TAL CHI
Total/NA	Analysis	6010B		1	282693	04/06/15 15:53	PJ1	TAL CHI
Total/NA	Prep	7471A			282433	04/03/15 14:00	RLL	TAL CHI
Total/NA	Analysis	7471A		1	282615	04/06/15 09:31	RLL	TAL CHI
Total/NA	Analysis	Moisture		1	282267	04/02/15 15:44	MJD	TAL CHI

TestAmerica Chicago

Lab Chronicle

Client: TRC Environmental Corporation.
Project/Site: Former CMC Shops Wheelhouse 232269

TestAmerica Job ID: 500-94066-1

Client Sample ID: GP-5 (6-8)

Lab Sample ID: 500-94066-12

Date Collected: 03/30/15 00:00

Matrix: Solid

Date Received: 04/02/15 09:30

Percent Solids: 80.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			282506	03/30/15 00:00	WRE	TAL CHI
Total/NA	Analysis	8260B		50	283042	04/09/15 17:56	TCT	TAL CHI
Total/NA	Prep	3541			282339	04/03/15 07:28	STW	TAL CHI
Total/NA	Analysis	8270D		50	283407	04/11/15 17:43	GES	TAL CHI
Total/NA	Prep	3541			282335	04/03/15 07:22	STW	TAL CHI
Total/NA	Analysis	8082		1	282489	04/04/15 11:25	GMO	TAL CHI
Total/NA	Prep	3050B			282530	04/05/15 18:00	PJH	TAL CHI
Total/NA	Analysis	6010B		1	282693	04/06/15 15:58	PJ1	TAL CHI
Total/NA	Prep	7471A			282433	04/03/15 14:00	RLL	TAL CHI
Total/NA	Analysis	7471A		1	282615	04/06/15 09:33	RLL	TAL CHI
Total/NA	Analysis	Moisture		1	282267	04/02/15 15:44	MJD	TAL CHI

Client Sample ID: GP-6 (4-6)

Lab Sample ID: 500-94066-13

Date Collected: 03/30/15 00:00

Matrix: Solid

Date Received: 04/02/15 09:30

Percent Solids: 64.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			282506	03/30/15 00:00	WRE	TAL CHI
Total/NA	Analysis	8260B		50	283042	04/09/15 18:23	TCT	TAL CHI
Total/NA	Prep	3541			282339	04/03/15 07:28	STW	TAL CHI
Total/NA	Analysis	8270D		1	282885	04/08/15 14:52	KDL	TAL CHI
Total/NA	Prep	3541			282335	04/03/15 07:22	STW	TAL CHI
Total/NA	Analysis	8082		1	282489	04/04/15 11:39	GMO	TAL CHI
Total/NA	Prep	3050B			282530	04/05/15 18:00	PJH	TAL CHI
Total/NA	Analysis	6010B		1	282693	04/06/15 16:02	PJ1	TAL CHI
Total/NA	Prep	7471A			282433	04/03/15 14:00	RLL	TAL CHI
Total/NA	Analysis	7471A		1	282615	04/06/15 09:36	RLL	TAL CHI
Total/NA	Analysis	Moisture		1	282267	04/02/15 15:44	MJD	TAL CHI

Client Sample ID: GP-6 (10-12)

Lab Sample ID: 500-94066-14

Date Collected: 03/30/15 00:00

Matrix: Solid

Date Received: 04/02/15 09:30

Percent Solids: 73.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			282506	03/30/15 00:00	WRE	TAL CHI
Total/NA	Analysis	8260B		50	283042	04/09/15 18:51	TCT	TAL CHI
Total/NA	Prep	3541			282339	04/03/15 07:28	STW	TAL CHI
Total/NA	Analysis	8270D		1	282885	04/08/15 15:13	KDL	TAL CHI
Total/NA	Prep	3541			282335	04/03/15 07:22	STW	TAL CHI
Total/NA	Analysis	8082		1	282489	04/04/15 11:52	GMO	TAL CHI
Total/NA	Prep	3050B			282530	04/05/15 18:00	PJH	TAL CHI
Total/NA	Analysis	6010B		1	282693	04/06/15 16:07	PJ1	TAL CHI
Total/NA	Prep	7471A			282433	04/03/15 14:00	RLL	TAL CHI

TestAmerica Chicago

Lab Chronicle

Client: TRC Environmental Corporation.
Project/Site: Former CMC Shops Wheelhouse 232269

TestAmerica Job ID: 500-94066-1

Client Sample ID: GP-6 (10-12)

Lab Sample ID: 500-94066-14

Date Collected: 03/30/15 00:00

Matrix: Solid

Date Received: 04/02/15 09:30

Percent Solids: 73.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	7471A		1	282615	04/06/15 09:38	RLL	TAL CHI
Total/NA	Analysis	Moisture		1	282267	04/02/15 15:44	MJD	TAL CHI

Client Sample ID: GP-6 (14-16)

Lab Sample ID: 500-94066-15

Date Collected: 03/30/15 00:00

Matrix: Solid

Date Received: 04/02/15 09:30

Percent Solids: 77.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			282506	03/30/15 00:00	WRE	TAL CHI
Total/NA	Analysis	8260B		50	283042	04/09/15 19:19	TCT	TAL CHI
Total/NA	Analysis	Moisture		1	282267	04/02/15 15:44	MJD	TAL CHI

Client Sample ID: GP-7 (4-6)

Lab Sample ID: 500-94066-16

Date Collected: 03/30/15 00:00

Matrix: Solid

Date Received: 04/02/15 09:30

Percent Solids: 80.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			282506	03/30/15 00:00	WRE	TAL CHI
Total/NA	Analysis	8260B		50	283042	04/09/15 19:47	TCT	TAL CHI
Total/NA	Prep	3541			282339	04/03/15 07:28	STW	TAL CHI
Total/NA	Analysis	8270D		1	282885	04/08/15 15:35	KDL	TAL CHI
Total/NA	Prep	3541			282335	04/03/15 07:22	STW	TAL CHI
Total/NA	Analysis	8082		1	282489	04/04/15 12:06	GMO	TAL CHI
Total/NA	Prep	3050B			282530	04/05/15 18:00	PJH	TAL CHI
Total/NA	Analysis	6010B		1	282693	04/06/15 16:12	PJ1	TAL CHI
Total/NA	Prep	7471A			282433	04/03/15 14:00	RLL	TAL CHI
Total/NA	Analysis	7471A		1	282615	04/06/15 09:40	RLL	TAL CHI
Total/NA	Analysis	Moisture		1	282267	04/02/15 15:44	MJD	TAL CHI

Client Sample ID: GP-7 (10-12)

Lab Sample ID: 500-94066-17

Date Collected: 03/30/15 00:00

Matrix: Solid

Date Received: 04/02/15 09:30

Percent Solids: 78.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			282506	03/30/15 00:00	WRE	TAL CHI
Total/NA	Analysis	8260B		50	283042	04/09/15 20:15	TCT	TAL CHI
Total/NA	Prep	3541			282339	04/03/15 07:28	STW	TAL CHI
Total/NA	Analysis	8270D		1	282885	04/08/15 15:57	KDL	TAL CHI
Total/NA	Prep	3541			282335	04/03/15 07:22	STW	TAL CHI
Total/NA	Analysis	8082		1	282489	04/04/15 12:20	GMO	TAL CHI
Total/NA	Prep	3050B			282530	04/05/15 18:00	PJH	TAL CHI
Total/NA	Analysis	6010B		1	282693	04/06/15 16:25	PJ1	TAL CHI
Total/NA	Prep	7471A			282433	04/03/15 14:00	RLL	TAL CHI

TestAmerica Chicago

Lab Chronicle

Client: TRC Environmental Corporation.
Project/Site: Former CMC Shops Wheelhouse 232269

TestAmerica Job ID: 500-94066-1

Client Sample ID: GP-7 (10-12)

Lab Sample ID: 500-94066-17

Date Collected: 03/30/15 00:00

Matrix: Solid

Date Received: 04/02/15 09:30

Percent Solids: 78.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	7471A		1	282615	04/06/15 09:42	RLL	TAL CHI
Total/NA	Analysis	Moisture		1	282267	04/02/15 15:44	MJD	TAL CHI

Client Sample ID: GP-7 (14-16)

Lab Sample ID: 500-94066-18

Date Collected: 03/30/15 00:00

Matrix: Solid

Date Received: 04/02/15 09:30

Percent Solids: 70.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			282506	03/30/15 00:00	WRE	TAL CHI
Total/NA	Analysis	8260B		50	283042	04/09/15 20:42	TCT	TAL CHI
Total/NA	Analysis	Moisture		1	282267	04/02/15 15:44	MJD	TAL CHI

Client Sample ID: GP-8 (4-6)

Lab Sample ID: 500-94066-19

Date Collected: 03/31/15 00:00

Matrix: Solid

Date Received: 04/02/15 09:30

Percent Solids: 88.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			282506	03/31/15 00:00	WRE	TAL CHI
Total/NA	Analysis	8260B		50	283234	04/10/15 12:35	TCT	TAL CHI
Total/NA	Prep	3541			282339	04/03/15 07:28	STW	TAL CHI
Total/NA	Analysis	8270D		50	283407	04/11/15 18:04	GES	TAL CHI
Total/NA	Prep	3541			282335	04/03/15 07:22	STW	TAL CHI
Total/NA	Analysis	8082		1	282489	04/04/15 12:33	GMO	TAL CHI
Total/NA	Prep	3050B			282530	04/05/15 18:00	PJH	TAL CHI
Total/NA	Analysis	6010B		1	282693	04/06/15 16:30	PJ1	TAL CHI
Total/NA	Prep	7471A			282433	04/03/15 14:00	RLL	TAL CHI
Total/NA	Analysis	7471A		1	282615	04/06/15 09:44	RLL	TAL CHI
Total/NA	Analysis	Moisture		1	282267	04/02/15 15:44	MJD	TAL CHI

Client Sample ID: GP-9 (2-4)

Lab Sample ID: 500-94066-20

Date Collected: 03/31/15 00:00

Matrix: Solid

Date Received: 04/02/15 09:30

Percent Solids: 83.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			282506	03/31/15 00:00	WRE	TAL CHI
Total/NA	Analysis	8260B		50	283234	04/10/15 13:00	TCT	TAL CHI
Total/NA	Prep	3541			282339	04/03/15 07:28	STW	TAL CHI
Total/NA	Analysis	8270D		1	283281	04/10/15 18:12	BJH	TAL CHI
Total/NA	Prep	3541			282335	04/03/15 07:22	STW	TAL CHI
Total/NA	Analysis	8082		1	282489	04/04/15 12:47	GMO	TAL CHI
Total/NA	Prep	3050B			282530	04/05/15 18:00	PJH	TAL CHI
Total/NA	Analysis	6010B		1	282693	04/06/15 16:35	PJ1	TAL CHI
Total/NA	Prep	7471A			282433	04/03/15 14:00	RLL	TAL CHI

TestAmerica Chicago

Lab Chronicle

Client: TRC Environmental Corporation.
Project/Site: Former CMC Shops Wheelhouse 232269

TestAmerica Job ID: 500-94066-1

Client Sample ID: GP-9 (2-4)

Date Collected: 03/31/15 00:00

Date Received: 04/02/15 09:30

Lab Sample ID: 500-94066-20

Matrix: Solid

Percent Solids: 83.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	7471A		1	282615	04/06/15 09:46	RLL	TAL CHI
Total/NA	Analysis	Moisture		1	282267	04/02/15 15:44	MJD	TAL CHI

Client Sample ID: GP-10 (2-4)

Date Collected: 03/31/15 00:00

Date Received: 04/02/15 09:30

Lab Sample ID: 500-94066-21

Matrix: Solid

Percent Solids: 89.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			282507	03/31/15 00:00	WRE	TAL CHI
Total/NA	Analysis	8260B		50	283234	04/10/15 13:25	TCT	TAL CHI
Total/NA	Prep	3541			282339	04/03/15 07:28	STW	TAL CHI
Total/NA	Analysis	8270D		5	283281	04/10/15 18:31	BJH	TAL CHI
Total/NA	Prep	3541			282335	04/03/15 07:22	STW	TAL CHI
Total/NA	Analysis	8082		1	282489	04/04/15 13:01	GMO	TAL CHI
Total/NA	Prep	3050B			282530	04/05/15 18:00	PJH	TAL CHI
Total/NA	Analysis	6010B		1	282693	04/06/15 16:39	PJ1	TAL CHI
Total/NA	Prep	7471A			282433	04/03/15 14:00	RLL	TAL CHI
Total/NA	Analysis	7471A		1	282615	04/06/15 09:48	RLL	TAL CHI
Total/NA	Analysis	Moisture		1	282267	04/02/15 15:44	MJD	TAL CHI

Client Sample ID: GP-10 (8-10)

Date Collected: 03/31/15 00:00

Date Received: 04/02/15 09:30

Lab Sample ID: 500-94066-22

Matrix: Solid

Percent Solids: 67.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			282507	03/31/15 00:00	WRE	TAL CHI
Total/NA	Analysis	8260B		50	283234	04/10/15 13:50	TCT	TAL CHI
Total/NA	Prep	3541			282339	04/03/15 07:28	STW	TAL CHI
Total/NA	Analysis	8270D		50	283281	04/10/15 18:51	BJH	TAL CHI
Total/NA	Prep	3541			282335	04/03/15 07:22	STW	TAL CHI
Total/NA	Analysis	8082		5	282489	04/07/15 16:28	GMO	TAL CHI
Total/NA	Prep	3050B			282530	04/05/15 18:00	PJH	TAL CHI
Total/NA	Analysis	6010B		1	282693	04/06/15 16:44	PJ1	TAL CHI
Total/NA	Prep	7471A			282433	04/03/15 14:00	RLL	TAL CHI
Total/NA	Analysis	7471A		1	282615	04/06/15 09:55	RLL	TAL CHI
Total/NA	Analysis	Moisture		1	282267	04/02/15 15:44	MJD	TAL CHI

Client Sample ID: GP-10 (14-16)

Date Collected: 03/31/15 00:00

Date Received: 04/02/15 09:30

Lab Sample ID: 500-94066-23

Matrix: Solid

Percent Solids: 70.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			282507	03/31/15 00:00	WRE	TAL CHI

TestAmerica Chicago

Lab Chronicle

Client: TRC Environmental Corporation.
Project/Site: Former CMC Shops Wheelhouse 232269

TestAmerica Job ID: 500-94066-1

Client Sample ID: GP-10 (14-16)

Lab Sample ID: 500-94066-23

Date Collected: 03/31/15 00:00

Matrix: Solid

Date Received: 04/02/15 09:30

Percent Solids: 70.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		50	283234	04/10/15 14:16	TCT	TAL CHI
Total/NA	Analysis	Moisture		1	282267	04/02/15 15:44	MJD	TAL CHI

Client Sample ID: GP-11 (4-6)

Lab Sample ID: 500-94066-24

Date Collected: 03/31/15 00:00

Matrix: Solid

Date Received: 04/02/15 09:30

Percent Solids: 87.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			282507	03/31/15 00:00	WRE	TAL CHI
Total/NA	Analysis	8260B		50	283234	04/10/15 14:41	TCT	TAL CHI
Total/NA	Prep	3541			282339	04/03/15 07:28	STW	TAL CHI
Total/NA	Analysis	8270D		1	283281	04/10/15 19:10	BJH	TAL CHI
Total/NA	Prep	3541			282335	04/03/15 07:22	STW	TAL CHI
Total/NA	Analysis	8082		1	282489	04/04/15 13:28	GMO	TAL CHI
Total/NA	Prep	3050B			282530	04/05/15 18:00	PJH	TAL CHI
Total/NA	Analysis	6010B		1	282693	04/06/15 16:49	PJ1	TAL CHI
Total/NA	Prep	7471A			282433	04/03/15 14:00	RLL	TAL CHI
Total/NA	Analysis	7471A		1	282615	04/06/15 09:57	RLL	TAL CHI
Total/NA	Analysis	Moisture		1	282267	04/02/15 15:44	MJD	TAL CHI

Client Sample ID: GP-12 (4-6)

Lab Sample ID: 500-94066-25

Date Collected: 03/31/15 00:00

Matrix: Solid

Date Received: 04/02/15 09:30

Percent Solids: 84.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			282507	03/31/15 00:00	WRE	TAL CHI
Total/NA	Analysis	8260B		50	283234	04/10/15 15:07	TCT	TAL CHI
Total/NA	Prep	3541			282339	04/03/15 07:28	STW	TAL CHI
Total/NA	Analysis	8270D		1	282885	04/08/15 17:24	KDL	TAL CHI
Total/NA	Prep	3541			282335	04/03/15 07:22	STW	TAL CHI
Total/NA	Analysis	8082		1	282489	04/04/15 13:42	GMO	TAL CHI
Total/NA	Prep	3050B			282530	04/05/15 18:00	PJH	TAL CHI
Total/NA	Analysis	6010B		1	282693	04/06/15 16:54	PJ1	TAL CHI
Total/NA	Prep	7471A			282433	04/03/15 14:00	RLL	TAL CHI
Total/NA	Analysis	7471A		1	282615	04/06/15 09:59	RLL	TAL CHI
Total/NA	Analysis	Moisture		1	282267	04/02/15 15:44	MJD	TAL CHI

Client Sample ID: GP-13 (2-4)

Lab Sample ID: 500-94066-26

Date Collected: 03/31/15 00:00

Matrix: Solid

Date Received: 04/02/15 09:30

Percent Solids: 87.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			282507	03/31/15 00:00	WRE	TAL CHI

TestAmerica Chicago

Lab Chronicle

Client: TRC Environmental Corporation.
Project/Site: Former CMC Shops Wheelhouse 232269

TestAmerica Job ID: 500-94066-1

Client Sample ID: GP-13 (2-4)

Lab Sample ID: 500-94066-26

Date Collected: 03/31/15 00:00

Matrix: Solid

Date Received: 04/02/15 09:30

Percent Solids: 87.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		50	283234	04/10/15 15:32	TCT	TAL CHI
Total/NA	Prep	3541			282339	04/03/15 07:28	STW	TAL CHI
Total/NA	Analysis	8270D		50	283281	04/10/15 19:29	BJH	TAL CHI
Total/NA	Prep	3541			282335	04/03/15 07:22	STW	TAL CHI
Total/NA	Analysis	8082		1	282489	04/04/15 13:56	GMO	TAL CHI
Total/NA	Prep	3050B			282530	04/05/15 18:00	PJH	TAL CHI
Total/NA	Analysis	6010B		1	282693	04/06/15 16:58	PJ1	TAL CHI
Total/NA	Prep	7471A			282433	04/03/15 14:00	RLL	TAL CHI
Total/NA	Analysis	7471A		1	282615	04/06/15 10:01	RLL	TAL CHI
Total/NA	Analysis	Moisture		1	282267	04/02/15 15:44	MJD	TAL CHI

Client Sample ID: GP-14 (2-4)

Lab Sample ID: 500-94066-27

Date Collected: 03/31/15 00:00

Matrix: Solid

Date Received: 04/02/15 09:30

Percent Solids: 84.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			282507	03/31/15 00:00	WRE	TAL CHI
Total/NA	Analysis	8260B		50	283234	04/10/15 15:57	TCT	TAL CHI
Total/NA	Prep	3541			282689	04/07/15 07:23	STW	TAL CHI
Total/NA	Analysis	8270D		1	282885	04/08/15 18:30	KDL	TAL CHI
Total/NA	Prep	3541			282335	04/03/15 07:22	STW	TAL CHI
Total/NA	Analysis	8082		1	282489	04/04/15 14:09	GMO	TAL CHI
Total/NA	Prep	3050B			282530	04/05/15 18:00	PJH	TAL CHI
Total/NA	Analysis	6010B		1	282693	04/06/15 17:03	PJ1	TAL CHI
Total/NA	Prep	7471A			282433	04/03/15 14:00	RLL	TAL CHI
Total/NA	Analysis	7471A		1	282615	04/06/15 10:03	RLL	TAL CHI
Total/NA	Analysis	Moisture		1	282267	04/02/15 15:44	MJD	TAL CHI

Client Sample ID: GP-14 (8-10)

Lab Sample ID: 500-94066-28

Date Collected: 03/31/15 00:00

Matrix: Solid

Date Received: 04/02/15 09:30

Percent Solids: 79.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			282507	03/31/15 00:00	WRE	TAL CHI
Total/NA	Analysis	8260B		50	283234	04/10/15 16:22	TCT	TAL CHI
Total/NA	Prep	3541			282689	04/07/15 07:23	STW	TAL CHI
Total/NA	Analysis	8270D		1	282885	04/08/15 18:51	KDL	TAL CHI
Total/NA	Prep	3541			282643	04/06/15 15:45	DEA	TAL CHI
Total/NA	Analysis	8082		1	282711	04/07/15 10:32	GMO	TAL CHI
Total/NA	Prep	3050B			282530	04/05/15 18:00	PJH	TAL CHI
Total/NA	Analysis	6010B		1	282693	04/06/15 17:08	PJ1	TAL CHI
Total/NA	Prep	7471A			282433	04/03/15 14:00	RLL	TAL CHI
Total/NA	Analysis	7471A		1	282615	04/06/15 10:05	RLL	TAL CHI

TestAmerica Chicago

Lab Chronicle

Client: TRC Environmental Corporation.
Project/Site: Former CMC Shops Wheelhouse 232269

TestAmerica Job ID: 500-94066-1

Client Sample ID: GP-14 (8-10)

Lab Sample ID: 500-94066-28

Date Collected: 03/31/15 00:00

Matrix: Solid

Date Received: 04/02/15 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	282267	04/02/15 15:44	MJD	TAL CHI

Client Sample ID: GP-15 (4-6)

Lab Sample ID: 500-94066-29

Date Collected: 03/31/15 00:00

Matrix: Solid

Date Received: 04/02/15 09:30

Percent Solids: 83.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			282507	03/31/15 00:00	WRE	TAL CHI
Total/NA	Analysis	8260B		50	283234	04/10/15 16:47	TCT	TAL CHI
Total/NA	Prep	3541			282689	04/07/15 07:23	STW	TAL CHI
Total/NA	Analysis	8270D		10	283281	04/10/15 21:06	BJH	TAL CHI
Total/NA	Prep	3541			282643	04/06/15 15:45	DEA	TAL CHI
Total/NA	Analysis	8082		1	282711	04/07/15 10:46	GMO	TAL CHI
Total/NA	Prep	3050B			282530	04/05/15 18:00	PJH	TAL CHI
Total/NA	Analysis	6010B		1	282693	04/06/15 17:21	PJ1	TAL CHI
Total/NA	Prep	7471A			282437	04/03/15 14:00	RLL	TAL CHI
Total/NA	Analysis	7471A		1	282615	04/06/15 10:11	RLL	TAL CHI
Total/NA	Analysis	Moisture		1	282267	04/02/15 15:44	MJD	TAL CHI

Client Sample ID: GP-15 (8-10)

Lab Sample ID: 500-94066-30

Date Collected: 03/31/15 00:00

Matrix: Solid

Date Received: 04/02/15 09:30

Percent Solids: 81.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			282507	03/31/15 00:00	WRE	TAL CHI
Total/NA	Analysis	8260B		50	283234	04/10/15 17:12	TCT	TAL CHI
Total/NA	Prep	3541			282689	04/07/15 07:23	STW	TAL CHI
Total/NA	Analysis	8270D		1	283407	04/11/15 18:24	GES	TAL CHI
Total/NA	Prep	3541			282643	04/06/15 15:45	DEA	TAL CHI
Total/NA	Analysis	8082		1	282711	04/07/15 11:00	GMO	TAL CHI
Total/NA	Prep	3050B			282530	04/05/15 18:00	PJH	TAL CHI
Total/NA	Analysis	6010B		1	282693	04/06/15 17:25	PJ1	TAL CHI
Total/NA	Prep	7471A			282437	04/03/15 14:00	RLL	TAL CHI
Total/NA	Analysis	7471A		1	282615	04/06/15 10:13	RLL	TAL CHI
Total/NA	Analysis	Moisture		1	282267	04/02/15 15:44	MJD	TAL CHI

Client Sample ID: GP-15 (14-16)

Lab Sample ID: 500-94066-31

Date Collected: 03/31/15 00:00

Matrix: Solid

Date Received: 04/02/15 09:30

Percent Solids: 79.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			282507	03/31/15 00:00	WRE	TAL CHI
Total/NA	Analysis	8260B		50	283234	04/10/15 17:37	TCT	TAL CHI

TestAmerica Chicago

Lab Chronicle

Client: TRC Environmental Corporation.
Project/Site: Former CMC Shops Wheelhouse 232269

TestAmerica Job ID: 500-94066-1

Client Sample ID: GP-15 (14-16)

Lab Sample ID: 500-94066-31

Date Collected: 03/31/15 00:00

Matrix: Solid

Date Received: 04/02/15 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	282267	04/02/15 15:44	MJD	TAL CHI

Client Sample ID: GP-1

Lab Sample ID: 500-94066-32

Date Collected: 04/01/15 00:00

Matrix: Water

Date Received: 04/02/15 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	283235	04/10/15 11:19	TCT	TAL CHI
Total/NA	Prep	3510C			282561	04/06/15 08:41	SML	TAL CHI
Total/NA	Analysis	8270D		1	282633	04/06/15 17:06	BJH	TAL CHI
Total/NA	Prep	3510C			282371	04/03/15 09:11	RTO	TAL CHI
Total/NA	Analysis	8082		1	282488	04/04/15 09:17	GMO	TAL CHI
Total Recoverable	Prep	3005A			282395	04/03/15 09:55	JLC	TAL CHI
Total Recoverable	Analysis	6020		1	282566	04/03/15 15:39	PFK	TAL CHI
Total/NA	Prep	7470A			282400	04/03/15 11:30	RLL	TAL CHI
Total/NA	Analysis	7470A		1	282621	04/06/15 09:25	RLL	TAL CHI

Client Sample ID: GP-14

Lab Sample ID: 500-94066-33

Date Collected: 04/01/15 00:00

Matrix: Water

Date Received: 04/02/15 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	283235	04/10/15 11:45	TCT	TAL CHI
Total/NA	Prep	3510C			282561	04/06/15 08:41	SML	TAL CHI
Total/NA	Analysis	8270D		1	282633	04/06/15 17:31	BJH	TAL CHI
Total/NA	Prep	3510C			282371	04/03/15 09:11	RTO	TAL CHI
Total/NA	Analysis	8082		1	282488	04/04/15 09:31	GMO	TAL CHI
Total Recoverable	Prep	3005A			282395	04/03/15 09:55	JLC	TAL CHI
Total Recoverable	Analysis	6020		1	282566	04/03/15 15:43	PFK	TAL CHI
Total/NA	Prep	7470A			282400	04/03/15 11:30	RLL	TAL CHI
Total/NA	Analysis	7470A		1	282621	04/06/15 09:27	RLL	TAL CHI

Client Sample ID: GP-15

Lab Sample ID: 500-94066-34

Date Collected: 04/01/15 00:00

Matrix: Water

Date Received: 04/02/15 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	283235	04/10/15 12:10	TCT	TAL CHI
Total/NA	Prep	3510C			282561	04/06/15 08:41	SML	TAL CHI
Total/NA	Analysis	8270D		1	282633	04/06/15 17:56	BJH	TAL CHI
Total/NA	Prep	3510C			282371	04/03/15 09:11	RTO	TAL CHI
Total/NA	Analysis	8082		1	282488	04/04/15 09:45	GMO	TAL CHI
Total Recoverable	Prep	3005A			282395	04/03/15 09:55	JLC	TAL CHI

TestAmerica Chicago

Lab Chronicle

Client: TRC Environmental Corporation.
Project/Site: Former CMC Shops Wheelhouse 232269

TestAmerica Job ID: 500-94066-1

Client Sample ID: GP-15

Date Collected: 04/01/15 00:00

Date Received: 04/02/15 09:30

Lab Sample ID: 500-94066-34

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Analysis	6020		1	282566	04/03/15 15:47	PFK	TAL CHI
Total/NA	Prep	7470A			282400	04/03/15 11:30	RLL	TAL CHI
Total/NA	Analysis	7470A		1	282621	04/06/15 09:29	RLL	TAL CHI

Client Sample ID: MeoH Blank

Date Collected: 03/30/15 00:00

Date Received: 04/02/15 09:30

Lab Sample ID: 500-94066-35

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			282507	03/31/15 00:00	WRE	TAL CHI
Total/NA	Analysis	8260B		50	283234	04/10/15 18:02	TCT	TAL CHI

Laboratory References:

TAL CHI = TestAmerica Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

Certification Summary

Client: TRC Environmental Corporation.
Project/Site: Former CMC Shops Wheelhouse 232269

TestAmerica Job ID: 500-94066-1

Laboratory: TestAmerica Chicago

The certifications listed below are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Wisconsin	State Program	5	999580010	08-31-15



Report To (optional)
Contact: Bryan Bergman
Company: TRC
Address: 150 N. Park Blvd Ste 180
Address: Brookfield, IL 60085
Phone: _____
Fax: _____
E-Mail: B.bergman@trcsolutions.com

Bill To (optional)
Contact: _____
Company: _____
Address: _____
Address: _____
Phone: _____
Fax: _____
PO#/Reference#: _____

Chain of Custody Record

Lab Job #: 500-94066
Chain of Custody Number: _____
Page 1 of 4
Temperature °C of Cooler: (2.8)(3.3)(3.6)

Client		Client Project #		Preservative		Parameter		Matrix		Comments	
Project Name		Lab Project #		Project Location/State		Lab PM		Sampler		Preservative Key	
Sample ID		Date		Time		# of Containers		Matrix		Comments	
1	6P-1 (2-4)	3-30-15	-	3	VOCs	X	X	X	X		
2	6P-1 (6-8)		-		PCBs	X	X	X	X		
3	6P-1 (14-16)		-		PAHs	X	X	X	X		
4	6P-2 (4-6)		-		PCBs	X	X	X	X		
5	6P-2 (8-10)		-		PCBs	X	X	X	X		
6	6P-2 (14-16)		-		PCBs	X	X	X	X		
7	6P-3 (2-4)		-		PCBs	X	X	X	X		
8	6P-3 (8-10)		-		PCBs	X	X	X	X		
9	6P-4 (2-4)		-		PCBs	X	X	X	X		
10	6P-4 (6-8)		-		PCBs	X	X	X	X		

Turnaround Time Required (Business Days)

___ 1 Day ___ 2 Days ___ 5 Days ___ 7 Days X 10 Days ___ 15 Days ___ Other

Requested Due Date

Sample Disposal

☐ Return to Client

☐ Disposal by Lab

☐ Archive for ___ Months

(A fee may be assessed if samples are retained longer than 1 month)

Relinquished By <u>[Signature]</u>	Company <u>TRC</u>	Date <u>4-1-15</u>	Time <u>1600</u>	Received By <u>[Signature]</u>	Company <u>JA</u>	Date <u>4/2/15</u>	Time <u>0930</u>
Relinquished By	Company	Date	Time	Received By	Company	Date	Time
Relinquished By	Company	Date	Time	Received By	Company	Date	Time

Lab Courier _____
Shipped FX
Hand Delivered _____

Matrix Key
WW - Wastewater SE - Sediment
W - Water SO - Soil
S - Soil L - Leachate
SL - Sludge WL - Wipe
MS - Miscellaneous DW - Drinking Water
OL - Oil O - Other
A - Air

Client Comments

Lab Comments

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

2417 Bond Street, University Park, IL 60484
Phone: 708.534.5200 Fax: 708.534.5211

Report To (optional)
Contact: _____
Company: _____
Address: see page
Address: 1
Phone: _____
Fax: _____
E-Mail: _____

Bill To (optional)
Contact: _____
Company: _____
Address: _____
Address: _____
Phone: _____
Fax: _____
PO#/Reference# _____

Chain of Custody Record

Lab Job #: 500-94066
Chain of Custody Number: _____
Page 2 of 4
Temperature °C of Cooler: _____

Client <u>TRC</u>		Client Project # <u>232269</u>		Preservative																Preservative Key 1. HCL, Cool to 4° 2. H2SO4, Cool to 4° 3. HNO3, Cool to 4° 4. NaOH, Cool to 4° 5. NaOH/Zn, Cool to 4° 6. NaHSO4 7. Cool to 4° 8. None 9. Other	
Project Name				Parameter																	
Project Location/State				Lab Project #																	
Sampler				Lab PM																	
Lab ID	MS/MSD	Sample ID	Date	Time	# of Containers	Matrix															Comments
11		GP-5 (2-4)	3-30-15	-		S	X	X	X	X											
12		GP-5 (6-8)		-			X	X	X	X											
13		GP-6 (4-6)		-			X	X	X	X											
14		GP-6 (10-12)		-			X	X	X	X											
15		GP-6 (14-16)		-			X														
16		GP-7 (4-6)		-			X	X	X	X											
17		GP-7 (10-12)		-			X	X	X	X											
18		GP-7 (14-16)		-			X														
19		GP-8 (4-6)	3-31-15	-			X	X	X	X											
20		GP-9 (2-4)	3-31-15	-			X	X	X	X											

Turnaround Time Required (Business Days)

___ 1 Day ___ 2 Days ___ 5 Days ___ 7 Days 10 Days ___ 15 Days ___ Other

Sample Disposal

☐ Return to Client

☐ Disposal by Lab

☐ Archive for ___ Months

(A fee may be assessed if samples are retained longer than 1 month)

Relinquished By <u>[Signature]</u>	Company <u>TRC</u>	Date <u>4-1-15</u>	Time <u>1600</u>	Received By <u>[Signature]</u>	Company <u>TA</u>	Date <u>4/2/15</u>	Time <u>0930</u>
Relinquished By	Company	Date	Time	Received By	Company	Date	Time
Relinquished By	Company	Date	Time	Received By	Company	Date	Time

Lab Courier	
Shipped	<u>FX</u>
Hand Delivered	

Matrix Key

WW - Wastewater
W - Water
S - Soil
SL - Sludge
MS - Miscellaneous
OL - Oil
A - Air
SE - Sediment
SO - Soil
L - Leachate
WI - Wipe
DW - Drinking Water
O - Other

Client Comments

Lab Comments:

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

2417 Bond Street, University Park, IL 60484
Phone: 708.534.5200 Fax: 708.534.5211

Report To (optional)
Contact: _____
Company: _____
Address: See Page
Address: _____
Phone: _____
Fax: _____
E-Mail: _____

Bill To (optional)
Contact: _____
Company: _____
Address: _____
Address: _____
Phone: _____
Fax: _____
PO#/Reference# _____

Chain of Custody Record

Lab Job #: 500-94066

Chain of Custody Number: _____

Page 3 of 4

Temperature °C of Cooler: _____

Client <u>TRC</u>		Client Project # <u>232269</u>		Preservative																Preservative Key 1. HCL, Cool to 4° 2. H2SO4, Cool to 4° 3. HNO3, Cool to 4° 4. NaOH, Cool to 4° 5. NaOH/Zn, Cool to 4° 6. NaHSO4 7. Cool to 4° 8. None 9. Other	
Project Name				Parameter																	
Project Location/State				Lab Project #																	
Sampler				Lab PM																	
Lab ID	MS/MSD	Sample ID	Date	Time	# of Containers	Matrix	VOCs	PCBs	PAHs	ReRA	Metals										Comments
21		GP-10 (2-4)	3-3-15	-			X	X	X	X											
22		GP-10 (8-10)		-			X	X	X	X											
23		GP-10 (14-16)		-			X														
24		GP-11 (4-6)		-			X	X	X	X											
25		GP-12 (4-6)		-			X	X	X	X											
26		GP-13 (2-4)		-			X	X	X	X											
27		GP-14 (2-4)		-			X	X	X	X											
28		GP-14 (8-10)		-			X	X	X	X											
29		GP-15 (4-6)		-			X	X	X	X											
30		GP-15 (8-10)		-			X	X	X	X											

Turnaround Time Required (Business Days)

___ 1 Day ___ 2 Days ___ 5 Days ___ 7 Days ☒ 10 Days ___ 15 Days ___ Other

Sample Disposal

☐ Return to Client ☐ Disposal by Lab ☐ Archive for ___ Months (A fee may be assessed if samples are retained longer than 1 month)

Relinquished By <u>[Signature]</u>	Company <u>TRC</u>	Date <u>4-1-15</u>	Time <u>1600</u>	Received By <u>[Signature]</u>	Company <u>TA</u>	Date <u>4/2/15</u>	Time <u>0930</u>
Relinquished By _____	Company _____	Date _____	Time _____	Received By _____	Company _____	Date _____	Time _____
Relinquished By _____	Company _____	Date _____	Time _____	Received By _____	Company _____	Date _____	Time _____

Lab Courier	_____
Shipped	<u>FX</u>
Hand Delivered	_____

Matrix Key

WW - Wastewater SE - Sediment
W - Water SO - Soil
S - Soil L - Leachate
SL - Sludge WI - Wipe
MS - Miscellaneous DW - Drinking Water
OL - Oil O - Other
A - Air

Client Comments

Lab Comments:

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

2417 Bond Street, University Park, IL 60484
Phone: 708.534.5200 Fax: 708.534.5211

Report To (optional)
Contact: _____
Company: see page
Address: _____
Address: _____
Phone: _____
Fax: _____
E-Mail: _____

Bill To (optional)
Contact: _____
Company: _____
Address: _____
Address: _____
Phone: _____
Fax: _____
PO#/Reference# _____

Chain of Custody Record

Lab Job #: 500-94066

Chain of Custody Number: _____

Page 4 of 4

Temperature °C of Cooler: _____

Client <u>JRL</u>		Client Project # <u>232269</u>		Preservative																Preservative Key 1. HCL, Cool to 4° 2. H2SO4, Cool to 4° 3. HNO3, Cool to 4° 4. NaOH, Cool to 4° 5. NaOH/Zn, Cool to 4° 6. NaHSO4 7. Cool to 4° 8. None 9. Other	
Project Name				Parameter																	
Project Location/State				Lab Project #																	
Sampler				Lab PM																	
Lab ID	MS/MSD	Sample ID	Date	Time	# of Containers	Matrix															Comments
31		GP-15 (14-16)	3-31-15	-	5	S	X														
32		GP-1	4-1-15	-	6w	Gw	X	X	X	X											
33		GP-14	4-1-15	-	6w	Gw	X	X	X	X											
34		GP-15	4-1-15	-	6w	Gw	X	X	X	X											
35		Meoff Blank	3-30-15	-	-	-	X														
		TRP Blank	4-1-15	-	-	-	X														

Turnaround Time Required (Business Days)

1 Day 2 Days 5 Days 7 Days X 10 Days 15 Days Other

Sample Disposal

☐ Return to Client

☐ Disposal by Lab

☐ Archive for _____ Months

(A fee may be assessed if samples are retained longer than 1 month)

Relinquished By <u>[Signature]</u>	Company <u>JRL</u>	Date <u>4-1-15</u>	Time <u>1600</u>	Received By <u>[Signature]</u>	Company <u>JRL</u>	Date <u>4/2/15</u>	Time <u>0930</u>
Relinquished By	Company	Date	Time	Received By	Company	Date	Time
Relinquished By	Company	Date	Time	Received By	Company	Date	Time

Lab Courier

Shipped FX

Hand Delivered

Matrix Key

WW - Wastewater SE - Sediment
W - Water SO - Soil
S - Soil L - Leachate
SL - Sludge WI - Wipe
MS - Miscellaneous DW - Drinking Water
OL - Oil O - Other
A - Air

Client Comments

Lab Comments:



Report To (optional)
Contact: Bryan Bergmann
Company: TRC
Address: 150 N. Patrick Blvd
Address: Brookfield, IL 60455
Phone: _____
Fax: _____
E-Mail: B.bergmann@TRC.solutions.com

Bill To (optional)
Contact: _____
Company: _____
Address: _____
Address: _____
Phone: _____
Fax: _____
PO#/Reference# _____

Chain of Custody Record

Lab Job #: 500-94066
Chain of Custody Number: _____
Page 1 of 1
Temperature °C of Cooler: 5.2

Client <u>TRC</u>		Client Project # <u>232269</u>		Preservative																Preservative Key 1. HCL, Cool to 4° 2. H2SO4, Cool to 4° 3. HNO3, Cool to 4° 4. NaOH, Cool to 4° 5. NaOH/Zn, Cool to 4° 6. NaHSO4 7. Cool to 4° 8. None 9. Other	
Project Name <u>Former CMC Slope Wheelhouse</u>				Parameter																	
Project Location/State <u>WI</u>				Lab Project #																	
Sampler <u>D.H.</u>				Lab PM																	
Lab ID	MS/MSD	Sample ID	Date	Time	# of Containers	Matrix	VOCs	PCBs	PAHs	PCAs	metals										
<u>5</u>		<u>GP-2 (8-10)</u>	<u>4-2-15</u>		<u>5</u>		<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>											
<u>8</u>		<u>GP-3 (8-10)</u>	<u>4-2-15</u>		<u>5</u>		<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>											

Turnaround Time Required (Business Days)

___ 1 Day ___ 2 Days ___ 5 Days ___ 7 Days ☒ 10 Days ___ 15 Days ___ Other

Sample Disposal

☐ Return to Client

☐ Disposal by Lab

☐ Archive for ___ Months

(A fee may be assessed if samples are retained longer than 1 month)

Relinquished By <u>[Signature]</u>	Company <u>TRC</u>	Date <u>4-2-15</u>	Time <u>1600</u>	Received By <u>[Signature]</u>	Company <u>JA</u>	Date <u>4/3/15</u>	Time <u>0945</u>
Relinquished By	Company	Date	Time	Received By	Company	Date	Time
Relinquished By	Company	Date	Time	Received By	Company	Date	Time

Lab Courier _____
Shipped FX
Hand Delivered _____

Matrix Key

WW - Wastewater
W - Water
S - Soil
SL - Sludge
MS - Miscellaneous
OL - Oil
A - Air
SE - Sediment
SO - Soil
L - Leachate
WI - Wipe
DW - Drinking Water
O - Other

Client Comments

Please include these results with results from the original project sample submitted

Lab Comments:

Login Sample Receipt Checklist

Client: TRC Environmental Corporation.

Job Number: 500-94066-1

Login Number: 94066

List Source: TestAmerica Chicago

List Number: 1

Creator: Lunt, Jeff T

Question	Answer	Comment
Radioactivity wasn't checked or is <= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	2.8,3.3,3.6,5.2
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 containers received 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	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Chicago

2417 Bond Street

University Park, IL 60484

Tel: (708)534-5200

TestAmerica Job ID: 500-94066-2

Client Project/Site: Former CMC Shops Wheelhouse 232269

For:

TRC Environmental Corporation.

150 N. Patrick Blvd.

Suite 180

Brookfield, Wisconsin 53045

Attn: Mr. Bryan Bergmann



Authorized for release by:

4/24/2015 4:47:30 PM

Bonnie Stadelmann, Senior Project Manager

bonnie.stadelmann@testamericainc.com

Designee for

Sandie Fredrick, Project Manager II

(920)261-1660

sandie.fredrick@testamericainc.com

LINKS

Review your project
results through

TotalAccess

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.

Table of Contents

Cover Page	1
Table of Contents	2
Case Narrative	3
Detection Summary	4
Method Summary	5
Sample Summary	6
Client Sample Results	7
Definitions	8
QC Association	9
QC Sample Results	10
Chronicle	11
Certification Summary	12
Chain of Custody	13
Receipt Checklists	17



Case Narrative

Client: TRC Environmental Corporation.
Project/Site: Former CMC Shops Wheelhouse 232269

TestAmerica Job ID: 500-94066-2

Job ID: 500-94066-2

Laboratory: TestAmerica Chicago

Narrative

Job Narrative 500-94066-2

Comments

No additional comments.

Receipt

The samples were received on 4/2/2015 9:30 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 4 coolers at receipt time were 2.8° C, 3.3° C, 3.6° C and 5.2° C.

Except:

The water Trip Blank sample vial was received broken. no sample remains.
We received 2 sets of bottles both labeled GP-2 (8-10) but did not receive a set of bottles for GP-3 (8-10).
Did not receive sample GP-4 (6-8) but we received a set of bottles with no sample ID's on them.
Samples GP-2 (8-10), GP-3 (8-10) and GP-4 (6-8) will not be logged in until we hear back from client.

Sample GP-4 6-8 the client confirmed this is the set with no sample ID's. They will resample the GP2 (8-10) and GP3 (8-10)

Metals

Method(s) 1311: Insufficient sample was provided to perform the leaching procedure with the required 100g for the following sample: GP-10 (8-10) (500-94066-22). The volume of leaching fluid was adjusted proportionally to maintain a 20:1 ratio of leaching fluid to weight of sample. Reporting limits (RLs) are not affected. Sample 500-94066-22 had 75 grams remaining which was used with an adjusted fluid volume of 1500ml.

Method(s) 1311: Insufficient sample was provided to perform the leaching procedure with the required 100g for the following sample: GP-14 (2-4) (500-94066-27). The volume of leaching fluid was adjusted proportionally to maintain a 20:1 ratio of leaching fluid to weight of sample. Reporting limits (RLs) are not affected. Sample 500-94066-27 had 75 grams remaining which was used with an adjusted fluid volume of 1500ml.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Detection Summary

Client: TRC Environmental Corporation.
Project/Site: Former CMC Shops Wheelhouse 232269

TestAmerica Job ID: 500-94066-2

Client Sample ID: GP-10 (8-10)

Lab Sample ID: 500-94066-22

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	0.019	J	0.050	0.0075	mg/L	1		6010B	TCLP

Client Sample ID: GP-13 (2-4)

Lab Sample ID: 500-94066-26

No Detections.

Client Sample ID: GP-14 (2-4)

Lab Sample ID: 500-94066-27

No Detections.

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Method Summary

Client: TRC Environmental Corporation.
Project/Site: Former CMC Shops Wheelhouse 232269

TestAmerica Job ID: 500-94066-2

Method	Method Description	Protocol	Laboratory
6010B	Metals (ICP)	SW846	TAL CHI

Protocol References:

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

Laboratory References:

TAL CHI = TestAmerica Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

Sample Summary

Client: TRC Environmental Corporation.
Project/Site: Former CMC Shops Wheelhouse 232269

TestAmerica Job ID: 500-94066-2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-94066-22	GP-10 (8-10)	Solid	03/31/15 00:00	04/02/15 09:30
500-94066-26	GP-13 (2-4)	Solid	03/31/15 00:00	04/02/15 09:30
500-94066-27	GP-14 (2-4)	Solid	03/31/15 00:00	04/02/15 09:30

Client Sample Results

Client: TRC Environmental Corporation.
Project/Site: Former CMC Shops Wheelhouse 232269

TestAmerica Job ID: 500-94066-2

Client Sample ID: GP-10 (8-10)

Date Collected: 03/31/15 00:00

Date Received: 04/02/15 09:30

Lab Sample ID: 500-94066-22

Matrix: Solid

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.019	J	0.050	0.0075	mg/L	—	04/23/15 08:25	04/24/15 13:28	1

Client Sample ID: GP-13 (2-4)

Date Collected: 03/31/15 00:00

Date Received: 04/02/15 09:30

Lab Sample ID: 500-94066-26

Matrix: Solid

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	<0.0075		0.050	0.0075	mg/L	—	04/23/15 08:25	04/24/15 13:33	1

Client Sample ID: GP-14 (2-4)

Date Collected: 03/31/15 00:00

Date Received: 04/02/15 09:30

Lab Sample ID: 500-94066-27

Matrix: Solid

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	<0.0075		0.050	0.0075	mg/L	—	04/23/15 08:25	04/24/15 13:38	1

Definitions/Glossary

Client: TRC Environmental Corporation.
Project/Site: Former CMC Shops Wheelhouse 232269

TestAmerica Job ID: 500-94066-2

Qualifiers

Metals

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.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
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
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
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)

QC Association Summary

Client: TRC Environmental Corporation.
Project/Site: Former CMC Shops Wheelhouse 232269

TestAmerica Job ID: 500-94066-2

Metals

Leach Batch: 284863

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-94066-22	GP-10 (8-10)	TCLP	Solid	1311	
500-94066-26	GP-13 (2-4)	TCLP	Solid	1311	
500-94066-27	GP-14 (2-4)	TCLP	Solid	1311	
LB 500-284863/1-B	Method Blank	TCLP	Solid	1311	

Prep Batch: 285125

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-94066-22	GP-10 (8-10)	TCLP	Solid	3010A	284863
500-94066-26	GP-13 (2-4)	TCLP	Solid	3010A	284863
500-94066-27	GP-14 (2-4)	TCLP	Solid	3010A	284863
LB 500-284863/1-B	Method Blank	TCLP	Solid	3010A	284863
LCS 500-285125/2-A	Lab Control Sample	Total/NA	Solid	3010A	

Analysis Batch: 285410

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-94066-22	GP-10 (8-10)	TCLP	Solid	6010B	285125
500-94066-26	GP-13 (2-4)	TCLP	Solid	6010B	285125
500-94066-27	GP-14 (2-4)	TCLP	Solid	6010B	285125
LB 500-284863/1-B	Method Blank	TCLP	Solid	6010B	285125
LCS 500-285125/2-A	Lab Control Sample	Total/NA	Solid	6010B	285125

QC Sample Results

Client: TRC Environmental Corporation.
Project/Site: Former CMC Shops Wheelhouse 232269

TestAmerica Job ID: 500-94066-2

Method: 6010B - Metals (ICP)

Lab Sample ID: LCS 500-285125/2-A
Matrix: Solid
Analysis Batch: 285410

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 285125

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Lead	0.100	0.100		mg/L		100	80 - 120

Lab Sample ID: LB 500-284863/1-B
Matrix: Solid
Analysis Batch: 285410

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 285125

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	<0.0075		0.050	0.0075	mg/L		04/23/15 08:25	04/24/15 12:53	1

Lab Chronicle

Client: TRC Environmental Corporation.
Project/Site: Former CMC Shops Wheelhouse 232269

TestAmerica Job ID: 500-94066-2

Client Sample ID: GP-10 (8-10)

Date Collected: 03/31/15 00:00

Date Received: 04/02/15 09:30

Lab Sample ID: 500-94066-22

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			284863	04/21/15 20:30	MJD	TAL CHI
TCLP	Prep	3010A			285125	04/23/15 08:25	JLC	TAL CHI
TCLP	Analysis	6010B		1	285410	04/24/15 13:28	PJ1	TAL CHI

Client Sample ID: GP-13 (2-4)

Date Collected: 03/31/15 00:00

Date Received: 04/02/15 09:30

Lab Sample ID: 500-94066-26

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			284863	04/21/15 20:30	MJD	TAL CHI
TCLP	Prep	3010A			285125	04/23/15 08:25	JLC	TAL CHI
TCLP	Analysis	6010B		1	285410	04/24/15 13:33	PJ1	TAL CHI

Client Sample ID: GP-14 (2-4)

Date Collected: 03/31/15 00:00

Date Received: 04/02/15 09:30

Lab Sample ID: 500-94066-27

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			284863	04/21/15 20:30	MJD	TAL CHI
TCLP	Prep	3010A			285125	04/23/15 08:25	JLC	TAL CHI
TCLP	Analysis	6010B		1	285410	04/24/15 13:38	PJ1	TAL CHI

Laboratory References:

TAL CHI = TestAmerica Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

Certification Summary

Client: TRC Environmental Corporation.
Project/Site: Former CMC Shops Wheelhouse 232269

TestAmerica Job ID: 500-94066-2

Laboratory: TestAmerica Chicago

The certifications listed below are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Wisconsin	State Program	5	999580010	08-31-15

From: Fredrick, Sandie
Sent: Wednesday, April 22, 2015 8:20 AM
To: Healy, Jayne
Subject: RE: TestAmerica report and EDD files from 500-94066-1 Former CMC Shops Wheelhouse 232269
Actually only need this part below. Sorry Jayne.

From: Bergmann, Bryan [mailto:BBergmann@trcsolutions.com]
Sent: Tuesday, April 21, 2015 5:29 PM
To: Fredrick, Sandie
Subject: FW: TestAmerica report and EDD files from 500-94066-1 Former CMC Shops Wheelhouse 232269
Importance: High

Hi Sandie,

Please run TCLP lead on the following. I will need results by Mon., April 27th if possible or Tues. April 28th at the latest. Let me know when I can expect results. Call me if you want to discuss more. Thank you!

GP-10 (8'-10'), total lead = 250 mg/kg
GP-13 (2'-4'), total lead= 160 mg/kg
GP-14 (2'-4') total lead = 120 mg/kg

SANDRA FREDRICK
Project Manager

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

2417 Bond Street
University Park, IL 60484
Tel 920-261-1660
sandie.fredrick@testamericainc.com

Please let us know if we met your expectations by rating the service you received from TestAmerica on this project by visiting our website at: [Project Feedback](#)

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From: Healy, Jayne
Sent: Wednesday, April 22, 2015 8:17 AM
To: Fredrick, Sandie
Subject: RE: TestAmerica report and EDD files from 500-94066-1 Former CMC Shops Wheelhouse 232269

Check in the job & see if that is what you wanted.

From: Fredrick, Sandie
Sent: Tuesday, April 21, 2015 5:44 PM
To: Healy, Jayne
Subject: FW: TestAmerica report and EDD files from 500-94066-1 Former CMC Shops Wheelhouse 232269
Importance: High

Can you please scan this as COC into job 500-94066-2

Thanks,
Sandie

SANDRA FREDRICK
Project Manager

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

2417 Bond Street
University Park, IL 60484
Tel 920-261-1660
sandie.fredrick@testamericainc.com

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From: Bergmann, Bryan [mailto:BBergmann@trcsolutions.com]
Sent: Tuesday, April 21, 2015 5:29 PM
To: Fredrick, Sandie
Subject: FW: TestAmerica report and EDD files from 500-94066-1 Former CMC Shops Wheelhouse 232269
Importance: High

Hi Sandie,

Please run TCLP lead on the following. I will need results by Mon., April 27th if possible or Tues. April 28th at the latest. Let me know when I can expect results. Call me if you want to discuss more. Thank you!

GP-10 (8'-10'), total lead = 250 mg/kg
GP-13 (2'-4'), total lead= 160 mg/kg
GP-14 (2'-4') total lead = 120 mg/kg

From: Fredrick, Sandie [mailto:Sandie.Fredrick@testamericainc.com]
Sent: Tuesday, April 21, 2015 2:19 PM
To: Leasia, Jamie
Cc: Bergmann, Bryan
Subject: RE: TestAmerica report and EDD files from 500-94066-1 Former CMC Shops Wheelhouse 232269

It's attached Jamie.

Let me know if you need something further.
Thanks,
Sandie

SANDRA FREDRICK
Project Manager

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

2417 Bond Street
University Park, IL 60484
Tel 920-261-1660
sandie.fredrick@testamericainc.com

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From: Leasia, Jamie [<mailto:JLeasia@trcsolutions.com>]
Sent: Tuesday, April 21, 2015 2:16 PM
To: Fredrick, Sandie
Cc: Bergmann, Bryan
Subject: RE: TestAmerica report and EDD files from 500-94066-1 Former CMC Shops Wheelhouse 232269

Hi Sandie,

Could you please send the final report for the project below?

Thanks,

Jamie Leasia
Project Scientist

trc-logo-blue



230 W. Monroe, Suite 2300, Chicago, IL 60606
T: 312.800.5920 | F: 312.578.0877 | C: 248.534.5895

[LinkedIn](#) | [Twitter](#) | [Blog](#) | www.trcsolutions.com

From: Bergmann, Bryan
Sent: Wednesday, April 15, 2015 11:50 AM
To: Leasia, Jamie
Subject: FW: TestAmerica report and EDD files from 500-94066-1 Former CMC Shops Wheelhouse 232269

From: Fredrick, Sandie [<mailto:sandie.fredrick@testamericainc.com>]
Sent: Wednesday, April 15, 2015 11:37 AM
To: Bergmann, Bryan
Subject: TestAmerica report and EDD files from 500-94066-1 Former CMC Shops Wheelhouse 232269

Hello Bryan,

Ask and you shall receive! Here is this final - the other is still in process - I will send a prelim.
Thanks,
Sandie

Attached please find the report and EDD files for job 500-94066-1; Former CMC Shops Wheelhouse 232269

Please feel free to contact me if you have any questions.

Thank you.

Please let us know if we met your expectations by rating the service you received from TestAmerica on this project by visiting our website at: [Project Feedback](#)

SANDIE J FREDRICK
Project Manager II

TestAmerica Chicago
THE LEADER IN ENVIRONMENTAL TESTING

Tel: 920.261.1660
www.testamericainc.com

Reference: [225478]
Attachments: 2

1

2

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Login Sample Receipt Checklist

Client: TRC Environmental Corporation.

Job Number: 500-94066-2

Login Number: 94066

List Source: TestAmerica Chicago

List Number: 1

Creator: Lunt, Jeff T

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	2.8,3.3,3.6,5.2
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 containers received 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	
Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Appendix E

Cumulative Hazard Index and Cancer Risk Calculations

Direct-Contact **Exceedance - Hazard - Risk** Calculation Summary from Soil Data

BRRTS # :	# of Soil-Concentration Entries: 17	Number of Individual Exceedance	(Cumulative) Hazard Index	(Cumulative) Cancer Risk
GP-1 (2-4) Non Industrial		1	0.002	2.5E-06
Bottom-Line: NO! This NON-INDUSTRIAL site sampling location will need either further cleanup to lower contaminant levels or the construction of a cap/cover to address the direct-contact pathway.				

Date of Entry: 4/22/2015. List below only has contaminants with data.
Date of Worksheet Used: 01/22/2015.

Contaminant	CAS Number	NC RCL (mg/kg)	C RCL (mg/kg)	Not-To-Exceed D-C RCL (mg/kg)	Basis	BTv (mg/kg)	INPUTTED Site Data (mg/kg)	Flag E = Individual Exceedance!	Hazard Quotient (HQ) from Data	Cancer Risk (CR) from Data
Benzo[a]pyrene	50-32-8	-	0.015	0.015	ca		0.028	E		1.9E-06
Benz[a]anthracene	56-55-3	-	0.148	0.148	ca		0.03			2.0E-07
Benzo[b]fluoranthene	205-99-2	-	0.148	0.148	ca		0.037			2.5E-07
Benzo[g,h,i]perylene	191-24-2	-	-				0.029			
Benzo[k]fluoranthene	207-08-9	-	1.48	1.48	ca		0.022			1.5E-08
Chrysene	218-01-9	-	14.8	14.8	ca		0.03			2.0E-09
Fluoranthene	206-44-0	2,290.	-	2,290.	nc		0.048		0.	
Indeno[1,2,3-cd]pyrene	193-39-5	-	0.148	0.148	ca		0.024			1.6E-07
Methylnaphthalene, 2-	91-57-6	229.	-	229.	nc		0.0073		0.	
Phenanthrene	85-01-8	-	-				0.054			
Pyrene	129-00-0	1,720.	-	1,720.	nc		0.044		0.	
Arsenic, Inorganic	7440-38-2	34.3	0.613	0.613	ca	8.	5.3			
Barium	7440-39-3	15,300.	-	15,300.	nc	364.	25.			
Cadmium (Diet)	7440-43-9	70.	2,110.	70.	nc	1.	0.54			
Chromium, Total	7440-47-3	-	-			44.	9.6			
Mercury (elemental)	7439-97-6	14.7	-	3.13	Csat		0.028		0.0019	
Lead and Compounds	7439-92-1	-	-	400.	nc	52.	26.			

Created by: C. Zingsheim 4/22/2015
Checked by: J. Leasia 4/27/2015

Direct-Contact **Exceedance - Hazard - Risk** Calculation Summary from Soil Data

BRRTS # :	# of Soil-Concentration Entries: 16	Number of Individual Exceedance	(Cumulative) Hazard Index	(Cumulative) Cancer Risk
GP-1 (6-8) Non Industrial		0	0.116	5.1E-07
Bottom-Line:		Yes, levels are below direct-contact concern.		

Date of Entry: 4/22/2015. List below only has contaminants with data.
Date of Worksheet Used: 01/22/2015.

Contaminant	CAS Number	NC RCL (mg/kg)	C RCL (mg/kg)	Not-To-Exceed D-C RCL (mg/kg)	Basis	BTV (mg/kg)	INPUTTED Site Data (mg/kg)	Flag E = Individual Exceedance!	Hazard Quotient (HQ) from Data	Cancer Risk (CR) from Data
Xylenes	1330-20-7	890.	-	258.	Csat		0.068		0.0001	
Trimethylbenzene, 1,2,4-	95-63-6	89.8	-	89.8	nc		1.4		0.0156	
Trimethylbenzene, 1,3,5-	108-67-8	782.	-	182.	Csat		0.23		0.0003	
Naphthalene	91-20-3	188.	5.15	5.15	ca		0.016		0.0001	3.1E-09
Methylnaphthalene, 1-	90-12-0	4,010.	15.6	15.6	ca		0.084		0.	5.4E-09
Methylnaphthalene, 2-	91-57-6	229.	-	229.	nc		0.088		0.0004	
Arsenic, Inorganic	7440-38-2	34.3	0.613	0.613	ca	8.	3.			
Barium	7440-39-3	15,300.	-	15,300.	nc	364.	28.			
Cadmium (Diet)	7440-43-9	70.	2,110.	70.	nc	1.	0.19			
Chromium, Total	7440-47-3	-	-			44.	9.2			
Mercury (elemental)	7439-97-6	14.7	-	3.13	Csat		0.018		0.0012	
Lead and Compounds	7439-92-1	-	-	400.	nc	52.	5.9			
Aroclor 1254	11097-69-1	1.12	0.221	0.221	ca		0.11		0.0982	5.0E-07
Butylbenzene, n-	104-51-8	3,910.	-	108.	Csat		0.2		0.0001	
Butylbenzene, sec-	135-98-8	7,820.	-	145.	Csat		0.13		0.	
Propyl benzene	103-65-1	3,970.	-	264.	Csat		0.17		0.	

Created by: C. Zingsheim 4/22/2015
Checked by: J. Leasia 4/27/2015

[illegible]

Direct-Contact **Exceedance - Hazard - Risk** Calculation Summary from Soil Data

BRRTS # : GP-2 (8-10) Non Industrial	# of Soil-Concentration Entries:	14	Number of Individual Exceedance	(Cumulative) Hazard Index	(Cumulative) Cancer Risk
			0	0.0011	1.2E-07
	Bottom-Line:		Yes, levels are below direct-contact concern.		

Date of Entry: 4/22/2015.
Date of Worksheet Used: 01/22/2015.

List below only has contaminants with data.

Contaminant	CAS Number	NC RCL (mg/kg)	C RCL (mg/kg)	Not-To-Exceed D-C RCL (mg/kg)	Basis	BTV (mg/kg)	INPUTTED Site Data (mg/kg)	Flag E = Individual Exceedance!	Hazard Quotient (HQ) from Data	Cancer Risk (CR) from Data
Acenaphthene	83-32-9	3,440.	-	3,440.	nc		0.04		0.	
Anthracene	120-12-7	17,200.	-	17,200.	nc		0.032		0.	
Fluoranthene	206-44-0	2,290.	-	2,290.	nc		0.045		0.	
Fluorene	86-73-7	2,290.	-	2,290.	nc		0.038		0.	
Phenanthrene	85-01-8	-	-				0.038			
Pyrene	129-00-0	1,720.	-	1,720.	nc		0.094		0.0001	
Arsenic, Inorganic	7440-38-2	34.3	0.613	0.613	ca	8.	3.			
Barium	7440-39-3	15,300.	-	15,300.	nc	364.	14.			
Cadmium (Diet)	7440-43-9	70.	2,110.	70.	nc	1.	0.27			
Chromium, Total	7440-47-3	-	-			44.	7.4			
Mercury (elemental)	7439-97-6	14.7	-	3.13	Csat		0.014		0.001	
Lead and Compounds	7439-92-1	-	-	400.	nc	52.	3.9			
Aroclor 1260	11096-82-5	-	0.221	0.221	ca		0.026			1.2E-07
Butylbenzene, sec-	135-98-8	7,820.	-	145.	Csat		0.085		0.	

Created by: C. Zingsheim 4/22/2015
Checked by: J. Leasia 4/27/2015

List below only has contaminants with data.

Created by: C. Zingsheim 4/22/2015
Checked by: J. Leasia 4/27/2015

Direct-Contact **Exceedance - Hazard - Risk** Calculation Summary from Soil Data

BRRTS # : GP-3 (8-10) Non Industrial	# of Soil-Concentration Entries:	17	Number of Individual Exceedance	(Cumulative) Hazard Index	(Cumulative) Cancer Risk
			0	0.0219	3.7E-07
	Bottom-Line:	Yes, levels are below direct-contact concern.			

Date of Entry: 4/22/2015. List below only has contaminants with data.
Date of Worksheet Used: 01/22/2015.

Contaminant	CAS Number	NC RCL (mg/kg)	C RCL (mg/kg)	Not-To-Exceed D-C RCL (mg/kg)	Basis	BTv (mg/kg)	INPUTTED Site Data (mg/kg)	Flag E = Individual Exceedance!	Hazard Quotient (HQ) from Data	Cancer Risk (CR) from Data
Naphthalene	91-20-3	188.	5.15	5.15	ca		0.18		0.001	3.5E-08
Acenaphthene	83-32-9	3,440.	-	3,440.	nc		0.47		0.0001	
Acenaphthylene	208-96-8	-	-				0.14			
Anthracene	120-12-7	17,200.	-	17,200.	nc		0.28		0.	
Chrysene	218-01-9	-	14.8	14.8	ca		0.025			1.7E-09
Fluoranthene	206-44-0	2,290.	-	2,290.	nc		0.013		0.	
Fluorene	86-73-7	2,290.	-	2,290.	nc		0.7		0.0003	
Methylnaphthalene, 1-	90-12-0	4,010.	15.6	15.6	ca		5.2		0.0013	3.3E-07
Methylnaphthalene, 2-	91-57-6	229.	-	229.	nc		4.1		0.0179	
Phenanthrene	85-01-8	-	-				0.84			
Pyrene	129-00-0	1,720.	-	1,720.	nc		0.16		0.0001	
Arsenic, Inorganic	7440-38-2	34.3	0.613	0.613	ca	8.	1.8			
Barium	7440-39-3	15,300.	-	15,300.	nc	364.	48.			
Cadmium (Diet)	7440-43-9	70.	2,110.	70.	nc	1.	0.19			
Chromium, Total	7440-47-3	-	-			44.	11.			
Mercury (elemental)	7439-97-6	14.7	-	3.13	Csat		0.018		0.0012	
Lead and Compounds	7439-92-1	-	-	400.	nc	52.	6.2			

Created by: C. Zingsheim 4/22/2015
Checked by: J. Leasia 4/27/2015

[illegible]

Direct-Contact **Exceedance - Hazard - Risk** Calculation Summary from Soil Data

BRRTS # :	# of Soil-Concentration Entries: 19	Number of Individual Exceedance	(Cumulative) Hazard Index	(Cumulative) Cancer Risk
GP-4 (6-8) Non Industrial		0	0.0192	4.1E-07
Bottom-Line:		Yes, levels are below direct-contact concern.		

Date of Entry: 4/22/2015. List below only has contaminants with data.
Date of Worksheet Used: 01/22/2015.

Contaminant	CAS Number	NC RCL (mg/kg)	C RCL (mg/kg)	Not-To-Exceed D-C RCL (mg/kg)	Basis	BTV (mg/kg)	INPUTTED Site Data (mg/kg)	Flag E = Individual Exceedance!	Hazard Quotient (HQ) from Data	Cancer Risk (CR) from Data
Naphthalene	91-20-3	188.	5.15	5.15	ca		0.076		0.0004	1.5E-08
Acenaphthene	83-32-9	3,440.	-	3,440.	nc		0.47		0.0001	
Anthracene	120-12-7	17,200.	-	17,200.	nc		0.19		0.	
Benz[a]anthracene	56-55-3	-	0.148	0.148	ca		0.0095			6.4E-08
Chrysene	218-01-9	-	14.8	14.8	ca		0.013			8.8E-10
Fluoranthene	206-44-0	2,290.	-	2,290.	nc		0.015		0.	
Fluorene	86-73-7	2,290.	-	2,290.	nc		0.68		0.0003	
Methylnaphthalene, 1-	90-12-0	4,010.	15.6	15.6	ca		5.2		0.0013	3.3E-07
Methylnaphthalene, 2-	91-57-6	229.	-	229.	nc		3.		0.0131	
Phenanthrene	85-01-8	-	-				0.76			
Pyrene	129-00-0	1,720.	-	1,720.	nc		0.12		0.0001	
Arsenic, Inorganic	7440-38-2	34.3	0.613	0.613	ca	8.	1.3			
Barium	7440-39-3	15,300.	-	15,300.	nc	364.	59.			
Cadmium (Diet)	7440-43-9	70.	2,110.	70.	nc	1.	0.18			
Chromium, Total	7440-47-3	-	-			44.	11.			
Mercury (elemental)	7439-97-6	14.7	-	3.13	Csat		0.026		0.0018	
Lead and Compounds	7439-92-1	-	-	400.	nc	52.	6.7			
Selenium	7782-49-2	391.	-	391.	nc		0.82		0.0021	
Butylbenzene, n-	104-51-8	3,910.	-	108.	Csat		0.19		0.	

Created by: C. Zingsheim 4/22/2015
Checked by: J. Leasia 4/27/2015

Direct-Contact **Exceedance - Hazard - Risk** Calculation Summary from Soil Data

BRRTS # :	# of Soil-Concentration Entries: 24	Number of Individual Exceedance	(Cumulative) Hazard Index	(Cumulative) Cancer Risk
GP-5 (2-4) Non Industrial		1	0.0259	2.8E-06
Bottom-Line: NO! This NON-INDUSTRIAL site sampling location will need either further cleanup to lower contaminant levels or the construction of a cap/cover to address the direct-contact pathway.				

Date of Entry: 4/23/2015. List below only has contaminants with data.
Date of Worksheet Used: 01/22/2015.

Contaminant	CAS Number	NC RCL (mg/kg)	C RCL (mg/kg)	Not-To-Exceed D-C RCL (mg/kg)	Basis	BTV (mg/kg)	INPUTTED Site Data (mg/kg)	Flag E = Individual Exceedance!	Hazard Quotient (HQ) from Data	Cancer Risk (CR) from Data
Naphthalene	91-20-3	188.	5.15	5.15	ca		0.03		0.0002	5.8E-09
Benzo[a]pyrene	50-32-8	-	0.015	0.015	ca		0.027	E		1.8E-06
Anthracene	120-12-7	17,200.	-	17,200.	nc		0.015		0.	
Benz[a]anthracene	56-55-3	-	0.148	0.148	ca		0.034			2.3E-07
Benzo[b]fluoranthene	205-99-2	-	0.148	0.148	ca		0.059			4.0E-07
Benzo[g,h,i]perylene	191-24-2	-	-				0.024			
Benzo[k]fluoranthene	207-08-9	-	1.48	1.48	ca		0.019			1.3E-08
Chrysene	218-01-9	-	14.8	14.8	ca		0.057			3.9E-09
Fluoranthene	206-44-0	2,290.	-	2,290.	nc		0.084		0.	
Indeno[1,2,3-cd]pyrene	193-39-5	-	0.148	0.148	ca		0.016			1.1E-07
Methylnaphthalene, 1-	90-12-0	4,010.	15.6	15.6	ca		0.025		0.	1.6E-09
Methylnaphthalene, 2-	91-57-6	229.	-	229.	nc		0.033		0.0001	
Phenanthrene	85-01-8	-	-				0.075			
Pyrene	129-00-0	1,720.	-	1,720.	nc		0.067		0.	
Arsenic, Inorganic	7440-38-2	34.3	0.613	0.613	ca	8.	7.			
Barium	7440-39-3	15,300.	-	15,300.	nc	364.	40.			
Cadmium (Diet)	7440-43-9	70.	2,110.	70.	nc	1.	0.67			
Chromium, Total	7440-47-3	-	-			44.	14.			
Mercury (elemental)	7439-97-6	14.7	-	3.13	Csat		0.067		0.0046	
Lead and Compounds	7439-92-1	-	-	400.	nc	52.	85.			

Created by: C. Zingsheim 4/22/2015
Checked by: J. Leasia 4/27/2015

BRRTS # :
GP-5 (2-4) Non Industrial

of Soil-Concentration Entries: 24

Number of Individual Exceedance	(Cumulative) Hazard Index	(Cumulative) Cancer Risk
1	0.0259	2.8E-06

Bottom-Line: **NO! This NON-INDUSTRIAL site sampling location will need either further cleanup to lower contaminant levels or the construction of a cap/cover to address the direct-contact pathway.**

Date of Entry: 4/23/2015.
Date of Worksheet Used: 01/22/2015.

List below only has contaminants with data.

Contaminant	CAS Number	NC RCL (mg/kg)	C RCL (mg/kg)	Not-To-Exceed D-C RCL (mg/kg)	Basis	BTV (mg/kg)	INPUTTED Site Data (mg/kg)	Flag E = Individual Exceedance!	Hazard Quotient (HQ) from Data	Cancer Risk (CR) from Data
Selenium	7782-49-2	391.	-	391.	nc		0.83		0.0021	
Aroclor 1254	11097-69-1	1.12	0.221	0.221	ca		0.021		0.0188	9.5E-08
Aroclor 1260	11096-82-5	-	0.221	0.221	ca		0.02			9.0E-08
Dichlorobenzene, 1,2-	95-50-1	2,460.	-	376.	Csat		0.14		0.0001	

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Checked by: J. Leasia 4/27/2015

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[illegible]

List below only has contaminants with data.

Created by: C. Zingsheim 4/22/2015
Checked by: J. Leasia 4/27/2015

[illegible]

List below only has contaminants with data.

Created by: C. Zingsheim 4/22/2015
Checked by: J. Leasia 4/27/2015

Direct-Contact **Exceedance - Hazard - Risk** Calculation Summary from Soil Data

BRRTS # : GP-8 (4-6) Non Industrial	# of Soil-Concentration Entries: 17	Number of Individual Exceedance	(Cumulative) Hazard Index	(Cumulative) Cancer Risk
		4	0.0053	9.0E-05
		Bottom-Line: NO! This NON-INDUSTRIAL site sampling location will need either further cleanup to lower contaminant levels or the construction of a cap/cover to address the direct-contact pathway.		

Date of Entry: 4/22/2015. List below only has contaminants with data.
Date of Worksheet Used: 01/22/2015.

Contaminant	CAS Number	NC RCL (mg/kg)	C RCL (mg/kg)	Not-To-Exceed D-C RCL (mg/kg)	Basis	BTV (mg/kg)	INPUTTED Site Data (mg/kg)	Flag E = Individual Exceedance!	Hazard Quotient (HQ) from Data	Cancer Risk (CR) from Data
Benzo[a]pyrene	50-32-8	-	0.015	0.015	ca		1.	E		6.8E-05
Benzo[a]anthracene	56-55-3	-	0.148	0.148	ca		1.2	E		8.1E-06
Benzo[b]fluoranthene	205-99-2	-	0.148	0.148	ca		1.4	E		9.5E-06
Benzo[g,h,i]perylene	191-24-2	-	-				0.73			
Benzo[k]fluoranthene	207-08-9	-	1.48	1.48	ca		0.64			4.3E-07
Chrysene	218-01-9	-	14.8	14.8	ca		1.2			8.1E-08
Fluoranthene	206-44-0	2,290.	-	2,290.	nc		2.		0.0009	
Indeno[1,2,3-cd]pyrene	193-39-5	-	0.148	0.148	ca		0.64	E		4.3E-06
Phenanthrene	85-01-8	-	-				0.76			
Pyrene	129-00-0	1,720.	-	1,720.	nc		1.9		0.0011	
Arsenic, Inorganic	7440-38-2	34.3	0.613	0.613	ca	8.	4.			
Barium	7440-39-3	15,300.	-	15,300.	nc	364.	51.			
Cadmium (Diet)	7440-43-9	70.	2,110.	70.	nc	1.	0.27			
Chromium, Total	7440-47-3	-	-			44.	14.			
Mercury (elemental)	7439-97-6	14.7	-	3.13	Csat		0.025		0.0017	
Lead and Compounds	7439-92-1	-	-	400.	nc	52.	39.			
Selenium	7782-49-2	391.	-	391.	nc		0.63		0.0016	

Created by: C. Zingsheim 4/22/2015
Checked by: J. Leasia 4/27/2015

Direct-Contact **Exceedance - Hazard - Risk** Calculation Summary from Soil Data

BRRTS # :	# of Soil-Concentration Entries: 21	Number of Individual Exceedance	(Cumulative) Hazard Index	(Cumulative) Cancer Risk
GP-9 (2-4) Non Industrial		5	0.0035	3.2E-05
Bottom-Line: NO! This NON-INDUSTRIAL site sampling location will need either further cleanup to lower contaminant levels or the construction of a cap/cover to address the direct-contact pathway.				

Date of Entry: 4/23/2015. List below only has contaminants with data.
Date of Worksheet Used: 01/22/2015.

Contaminant	CAS Number	NC RCL (mg/kg)	C RCL (mg/kg)	Not-To-Exceed D-C RCL (mg/kg)	Basis	BTV (mg/kg)	INPUTTED Site Data (mg/kg)	Flag E = Individual Exceedance!	Hazard Quotient (HQ) from Data	Cancer Risk (CR) from Data
Benzo[a]pyrene	50-32-8	-	0.015	0.015	ca		0.32	E		2.2E-05
Acenaphthene	83-32-9	3,440.	-	3,440.	nc		0.036		0.	
Acenaphthylene	208-96-8	-	-				0.023			
Anthracene	120-12-7	17,200.	-	17,200.	nc		0.092		0.	
Benz[a]anthracene	56-55-3	-	0.148	0.148	ca		0.32	E		2.2E-06
Benzo[b]fluoranthene	205-99-2	-	0.148	0.148	ca		0.45	E		3.0E-06
Benzo[g,h,i]perylene	191-24-2	-	-				0.19			
Benzo[k]fluoranthene	207-08-9	-	1.48	1.48	ca		0.18			1.2E-07
Chrysene	218-01-9	-	14.8	14.8	ca		0.31			2.1E-08
Dibenz[a,h]anthracene	53-70-3	-	0.015	0.015	ca		0.05	E		3.4E-06
Fluoranthene	206-44-0	2,290.	-	2,290.	nc		0.61		0.0003	
Fluorene	86-73-7	2,290.	-	2,290.	nc		0.035		0.	
Indeno[1,2,3-cd]pyrene	193-39-5	-	0.148	0.148	ca		0.19	E		1.3E-06
Phenanthrene	85-01-8	-	-				0.22			
Pyrene	129-00-0	1,720.	-	1,720.	nc		0.52		0.0003	
Arsenic, Inorganic	7440-38-2	34.3	0.613	0.613	ca	8.	3.7			
Barium	7440-39-3	15,300.	-	15,300.	nc	364.	60.			
Cadmium (Diet)	7440-43-9	70.	2,110.	70.	nc	1.	0.2			
Chromium, Total	7440-47-3	-	-			44.	17.			
Mercury (elemental)	7439-97-6	14.7	-	3.13	Csat		0.042		0.0029	

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Checked by: J. Leasia 4/27/2015

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Checked by: J. Leasia 4/27/2015

Direct-Contact **Exceedance - Hazard - Risk** Calculation Summary from Soil Data

BRRTS # :	# of Soil-Concentration Entries: 30	Number of Individual Exceedance	(Cumulative) Hazard Index	(Cumulative) Cancer Risk
GP-10 (2-4) Non Industrial		4	0.0233	8.4E-05
Bottom-Line: NO! This NON-INDUSTRIAL site sampling location will need either further cleanup to lower contaminant levels or the construction of a cap/cover to address the direct-contact pathway.				

Date of Entry: 4/23/2015.
Date of Worksheet Used: 01/22/2015.

List below only has contaminants with data.

Contaminant	CAS Number	NC RCL (mg/kg)	C RCL (mg/kg)	Not-To-Exceed D-C RCL (mg/kg)	Basis	BTV (mg/kg)	INPUTTED Site Data (mg/kg)	Flag E = Individual Exceedance!	Hazard Quotient (HQ) from Data	Cancer Risk (CR) from Data
Benzene	71-43-2	111.	1.49	1.49	ca		0.087		0.0008	5.8E-08
Ethylbenzene	100-41-4	4,220.	7.47	7.47	ca		0.11		0.	1.5E-08
Toluene	108-88-3	5,300.	-	818.	Csat		0.56		0.0001	
Xylenes	1330-20-7	890.	-	258.	Csat		0.95		0.0011	
Trimethylbenzene, 1,2,4-	95-63-6	89.8	-	89.8	nc		0.32		0.0036	
Naphthalene	91-20-3	188.	5.15	5.15	ca		0.6		0.0032	1.2E-07
Benzo[a]pyrene	50-32-8	-	0.015	0.015	ca		0.95	E		6.4E-05
Acenaphthene	83-32-9	3,440.	-	3,440.	nc		0.074		0.	
Acenaphthylene	208-96-8	-	-				0.084			
Anthracene	120-12-7	17,200.	-	17,200.	nc		0.26		0.	
Benz[a]anthracene	56-55-3	-	0.148	0.148	ca		1.	E		6.8E-06
Benzo[b]fluoranthene	205-99-2	-	0.148	0.148	ca		1.4	E		9.5E-06
Benzo[g,h,i]perylene	191-24-2	-	-				0.38			
Benzo[k]fluoranthene	207-08-9	-	1.48	1.48	ca		0.83			5.6E-07
Chrysene	218-01-9	-	14.8	14.8	ca		1.1			7.4E-08
Fluoranthene	206-44-0	2,290.	-	2,290.	nc		1.3		0.0006	
Fluorene	86-73-7	2,290.	-	2,290.	nc		0.083		0.	
Indeno[1,2,3-cd]pyrene	193-39-5	-	0.148	0.148	ca		0.42	E		2.8E-06
Methylnaphthalene, 1-	90-12-0	4,010.	15.6	15.6	ca		0.79		0.0002	5.1E-08
Methylnaphthalene, 2-	91-57-6	229.	-	229.	nc		0.81		0.0035	

Created by: C. Zingsheim 4/22/2015
Checked by: J. Leasia 4/27/2015

BRRTS # :
GP-10 (2-4) Non Industrial

of Soil-Concentration Entries: 30

Number of Individual Exceedance	(Cumulative) Hazard Index	(Cumulative) Cancer Risk
4	0.0233	8.4E-05

Bottom-Line: **NO! This NON-INDUSTRIAL site sampling location will need either further cleanup to lower contaminant levels or the construction of a cap/cover to address the direct-contact pathway.**

Date of Entry: 4/23/2015.
Date of Worksheet Used: 01/22/2015.

List below only has contaminants with data.

Contaminant	CAS Number	NC RCL (mg/kg)	C RCL (mg/kg)	Not-To-Exceed D-C RCL (mg/kg)	Basis	BTV (mg/kg)	INPUTTED Site Data (mg/kg)	Flag E = Individual Exceedance!	Hazard Quotient (HQ) from Data	Cancer Risk (CR) from Data
Phenanthrene	85-01-8	-	-	-			1.2			
Pyrene	129-00-0	1,720.	-	1,720.	nc		2.4		0.0014	
Arsenic, Inorganic	7440-38-2	34.3	0.613	0.613	ca	8.	6.9			
Barium	7440-39-3	15,300.	-	15,300.	nc	364.	65.			
Cadmium (Diet)	7440-43-9	70.	2,110.	70.	nc	1.	0.6			
Chromium, Total	7440-47-3	-	-	-		44.	9.8			
Mercury (elemental)	7439-97-6	14.7	-	3.13	Csat		0.092		0.0063	
Lead and Compounds	7439-92-1	-	-	400.	nc	52.	79.			
Selenium	7782-49-2	391.	-	391.	nc		1.		0.0026	
Aroclor 1260	11096-82-5	-	0.221	0.221	ca		0.016			7.2E-08

Created by: C. Zingsheim 4/22/2015
Checked by: J. Leasia 4/27/2015

Direct-Contact **Exceedance - Hazard - Risk** Calculation Summary from Soil Data

BRRTS # :	# of Soil-Concentration Entries: 17	Number of Individual Exceedance	(Cumulative) Hazard Index	(Cumulative) Cancer Risk
GP-10 (8-10) Non Industrial		2	1.3295	3.4E-05
Bottom-Line: NO! This NON-INDUSTRIAL site sampling location will need either further cleanup to lower contaminant levels or the construction of a cap/cover to address the direct-contact pathway.				

Date of Entry: 4/23/2015.
Date of Worksheet Used: 01/22/2015.

List below only has contaminants with data.

Contaminant	CAS Number	NC RCL (mg/kg)	C RCL (mg/kg)	Not-To-Exceed D-C RCL (mg/kg)	Basis	BTV (mg/kg)	INPUTTED Site Data (mg/kg)	Flag E = Individual Exceedance!	Hazard Quotient (HQ) from Data	Cancer Risk (CR) from Data
Naphthalene	91-20-3	188.	5.15	5.15	ca		0.53		0.0028	1.0E-07
Acenaphthene	83-32-9	3,440.	-	3,440.	nc		2.4		0.0007	
Anthracene	120-12-7	17,200.	-	17,200.	nc		0.99		0.0001	
Fluorene	86-73-7	2,290.	-	2,290.	nc		3.8		0.0017	
Methylnaphthalene, 1-	90-12-0	4,010.	15.6	15.6	ca		2.5		0.0006	1.6E-07
Methylnaphthalene, 2-	91-57-6	229.	-	229.	nc		0.91		0.004	
Phenanthrene	85-01-8	-	-				1.			
Pyrene	129-00-0	1,720.	-	1,720.	nc		1.8		0.001	
Arsenic, Inorganic	7440-38-2	34.3	0.613	0.613	ca	8.	18.	E	0.5248	2.9E-05
Barium	7440-39-3	15,300.	-	15,300.	nc	364.	100.			
Cadmium (Diet)	7440-43-9	70.	2,110.	70.	nc	1.	0.96			
Chromium, Total	7440-47-3	-	-			44.	11.			
Mercury (elemental)	7439-97-6	14.7	-	3.13	Csat		0.19		0.0129	
Lead and Compounds	7439-92-1	-	-	400.	nc	52.	250.			
Selenium	7782-49-2	391.	-	391.	nc		1.3		0.0033	
Aroclor 1254	11097-69-1	1.12	0.221	0.221	ca		0.87	E	0.7768	3.9E-06
Silver	7440-22-4	391.	-	391.	nc		0.31		0.0008	

Created by: C. Zingsheim 4/22/2015
Checked by: J. Leasia 4/27/2015

Direct-Contact **Exceedance - Hazard - Risk** Calculation Summary from Soil Data

BRRTS # : GP-11 (4-6) Non Industrial	# of Soil-Concentration Entries: 23	Number of Individual Exceedance	(Cumulative) Hazard Index	(Cumulative) Cancer Risk
		4	0.0061	4.3E-05
Bottom-Line: NO! This NON-INDUSTRIAL site sampling location will need either further cleanup to lower contaminant levels or the construction of a cap/cover to address the direct-contact pathway.				

Date of Entry: 4/23/2015.
Date of Worksheet Used: 01/22/2015.

List below only has contaminants with data.

Contaminant	CAS Number	NC RCL (mg/kg)	C RCL (mg/kg)	Not-To-Exceed D-C RCL (mg/kg)	Basis	BTV (mg/kg)	INPUTTED Site Data (mg/kg)	Flag E = Individual Exceedance!	Hazard Quotient (HQ) from Data	Cancer Risk (CR) from Data
Naphthalene	91-20-3	188.	5.15	5.15	ca		0.043		0.0002	8.3E-09
Benzo[a]pyrene	50-32-8	-	0.015	0.015	ca		0.49	E		3.3E-05
Acenaphthene	83-32-9	3,440.	-	3,440.	nc		0.051		0.	
Acenaphthylene	208-96-8	-	-				0.018			
Anthracene	120-12-7	17,200.	-	17,200.	nc		0.17		0.	
Benz[a]anthracene	56-55-3	-	0.148	0.148	ca		0.54	E		3.6E-06
Benzo[b]fluoranthene	205-99-2	-	0.148	0.148	ca		0.7	E		4.7E-06
Benzo[g,h,i]perylene	191-24-2	-	-				0.26			
Benzo[k]fluoranthene	207-08-9	-	1.48	1.48	ca		0.28			1.9E-07
Chrysene	218-01-9	-	14.8	14.8	ca		0.54			3.6E-08
Fluoranthene	206-44-0	2,290.	-	2,290.	nc		0.87		0.0004	
Fluorene	86-73-7	2,290.	-	2,290.	nc		0.056		0.	
Indeno[1,2,3-cd]pyrene	193-39-5	-	0.148	0.148	ca		0.26	E		1.8E-06
Methylnaphthalene, 1-	90-12-0	4,010.	15.6	15.6	ca		0.067		0.	4.3E-09
Methylnaphthalene, 2-	91-57-6	229.	-	229.	nc		0.088		0.0004	
Phenanthrene	85-01-8	-	-				0.61			
Pyrene	129-00-0	1,720.	-	1,720.	nc		1.6		0.0009	
Arsenic, Inorganic	7440-38-2	34.3	0.613	0.613	ca	8.	4.2			
Barium	7440-39-3	15,300.	-	15,300.	nc	364.	52.			
Cadmium (Diet)	7440-43-9	70.	2,110.	70.	nc	1.	0.35			

Created by: C. Zingsheim 4/22/2015
Checked by: J. Leasia 4/27/2015

List below only has contaminants with data.

[illegible]

Created by: C. Zingsheim 4/22/2015
Checked by: J. Leasia 4/27/2015

Direct-Contact **Exceedance - Hazard - Risk** Calculation Summary from Soil Data

Note: This Summary is OLD. Update with 'Get Summary' in Row 872 of the applicable *_DC_RCLs worksheet.

BRRTS # : GP-12 (4-6) Non Industrial	# of Soil-Concentration Entries: 26	<table> <tr> <th>Number of Individual Exceedance</th><th>(Cumulative) Hazard Index</th><th>(Cumulative) Cancer Risk</th></tr> <tr> <td>5</td><td>0.0254</td><td>5.9E-05</td></tr> </table>	Number of Individual Exceedance	(Cumulative) Hazard Index	(Cumulative) Cancer Risk	5	0.0254	5.9E-05
Number of Individual Exceedance	(Cumulative) Hazard Index	(Cumulative) Cancer Risk						
5	0.0254	5.9E-05						
	Bottom-Line:	NO! This NON-INDUSTRIAL site sampling location will need either further cleanup to lower contaminant levels or the construction of a cap/cover to address the direct-contact pathway.						

Date of Entry: 4/23/2015.

Date of Worksheet Used: 01/22/2015.

List below only has contaminants with data.

Contaminant	CAS Number	NC RCL (mg/kg)	C RCL (mg/kg)	Not-To-Exceed D-C RCL (mg/kg)	Basis	BTV (mg/kg)	INPUTTED Site Data (mg/kg)	Flag E = Individual Exceedance!	Hazard Quotient (HQ) from Data	Cancer Risk (CR) from Data
Naphthalene	91-20-3	188.	5.15	5.15	ca		0.044		0.0002	8.5E-09
Benzo[a]pyrene	50-32-8	-	0.015	0.015	ca		0.59	E		4.0E-05
Acenaphthene	83-32-9	3,440.	-	3,440.	nc		0.038		0.	
Acenaphthylene	208-96-8	-	-				0.075			
Anthracene	120-12-7	17,200.	-	17,200.	nc		0.14		0.	
Benz[a]anthracene	56-55-3	-	0.148	0.148	ca		0.68	E		4.6E-06
Benzo[b]fluoranthene	205-99-2	-	0.148	0.148	ca		0.85	E		5.7E-06
Benzo[g,h,i]perylene	191-24-2	-	-				0.39			
Benzo[k]fluoranthene	207-08-9	-	1.48	1.48	ca		0.46			3.1E-07
Chrysene	218-01-9	-	14.8	14.8	ca		0.7			4.7E-08
Dibenz[a,h]anthracene	53-70-3	-	0.015	0.015	ca		0.095	E		6.4E-06
Fluoranthene	206-44-0	2,290.	-	2,290.	nc		1.		0.0004	
Fluorene	86-73-7	2,290.	-	2,290.	nc		0.038		0.	
Indeno[1,2,3-cd]pyrene	193-39-5	-	0.148	0.148	ca		0.34	E		2.3E-06
Methylnaphthalene, 1-	90-12-0	4,010.	15.6	15.6	ca		0.014		0.	9.0E-10
Methylnaphthalene, 2-	91-57-6	229.	-	229.	nc		0.021		0.0001	
Phenanthrene	85-01-8	-	-				0.26			
Pyrene	129-00-0	1,720.	-	1,720.	nc		0.83		0.0005	
Arsenic, Inorganic	7440-38-2	34.3	0.613	0.613	ca	8.	4.1			
Barium	7440-39-3	15,300.	-	15,300.	nc	364.	53.			

Created by: C. Zingsheim 4/22/2015

Checked by: J. Leasia 4/27/2015

BRRTS # :
GP-12 (4-6) Non Industrial

of Soil-Concentration Entries: 26

Number of Individual Exceedance	(Cumulative) Hazard Index	(Cumulative) Cancer Risk
5	0.0254	5.9E-05

Bottom-Line: **NO! This NON-INDUSTRIAL site sampling location will need either further cleanup to lower contaminant levels or the construction of a cap/cover to address the direct-contact pathway.**

Date of Entry: 4/23/2015.
Date of Worksheet Used: 01/22/2015.

List below only has contaminants with data.

Contaminant	CAS Number	NC RCL (mg/kg)	C RCL (mg/kg)	Not-To-Exceed D-C RCL (mg/kg)	Basis	BTV (mg/kg)	INPUTTED Site Data (mg/kg)	Flag E = Individual Exceedance!	Hazard Quotient (HQ) from Data	Cancer Risk (CR) from Data
Cadmium (Diet)	7440-43-9	70.	2,110.	70.	nc	1.	0.38			
Chromium, Total	7440-47-3	-	-			44.	17.			
Mercury (elemental)	7439-97-6	14.7	-	3.13	Csat		0.04		0.0027	
Lead and Compounds	7439-92-1	-	-	400.	nc	52.	37.			
Aroclor 1254	11097-69-1	1.12	0.221	0.221	ca		0.024		0.0214	1.1E-07
Aroclor 1260	11096-82-5	-	0.221	0.221	ca		0.019			8.6E-08

Created by: C. Zingsheim 4/22/2015

Checked by: J. Leasia 4/27/2015

Direct-Contact **Exceedance - Hazard - Risk** Calculation Summary from Soil Data

BRRTS # : GP-13 (2-4) Non Industrial	# of Soil-Concentration Entries: 27	Number of Individual Exceedance 6	(Cumulative) Hazard Index 0.0869	(Cumulative) Cancer Risk 9.3E-04
Bottom-Line: NO! This NON-INDUSTRIAL site sampling location will need either further cleanup to lower contaminant levels or the construction of a cap/cover to address the direct-contact pathway.				

Date of Entry: 4/23/2015. List below only has contaminants with data.
Date of Worksheet Used: 01/22/2015.

Contaminant	CAS Number	NC RCL (mg/kg)	C RCL (mg/kg)	Not-To-Exceed D-C RCL (mg/kg)	Basis	BTV (mg/kg)	INPUTTED Site Data (mg/kg)	Flag E = Individual Exceedance!	Hazard Quotient (HQ) from Data	Cancer Risk (CR) from Data
Toluene	108-88-3	5,300.	-	818.	Csat		0.04		0.	
Xylenes	1330-20-7	890.	-	258.	Csat		0.076		0.0001	
Naphthalene	91-20-3	188.	5.15	5.15	ca		0.33		0.0018	6.4E-08
Benzo[a]pyrene	50-32-8	-	0.015	0.015	ca		9.2	E		6.2E-04
Acenaphthene	83-32-9	3,440.	-	3,440.	nc		1.2		0.0003	
Anthracene	120-12-7	17,200.	-	17,200.	nc		6.4		0.0004	
Benz[a]anthracene	56-55-3	-	0.148	0.148	ca		12.	E		8.1E-05
Benzo[b]fluoranthene	205-99-2	-	0.148	0.148	ca		11.	E		7.4E-05
Benzo[g,h,i]perylene	191-24-2	-	-	-			5.			
Benzo[k]fluoranthene	207-08-9	-	1.48	1.48	ca		6.6	E		4.5E-06
Chrysene	218-01-9	-	14.8	14.8	ca		11.			7.4E-07
Dibenz[a,h]anthracene	53-70-3	-	0.015	0.015	ca		1.7	E		1.1E-04
Fluoranthene	206-44-0	2,290.	-	2,290.	nc		25.		0.0109	
Fluorene	86-73-7	2,290.	-	2,290.	nc		2.3		0.001	
Indeno[1,2,3-cd]pyrene	193-39-5	-	0.148	0.148	ca		4.8	E		3.2E-05
Methylnaphthalene, 2-	91-57-6	229.	-	229.	nc		0.4		0.0017	
Phenanthrene	85-01-8	-	-	-			19.			
Pyrene	129-00-0	1,720.	-	1,720.	nc		23.		0.0134	
Arsenic, Inorganic	7440-38-2	34.3	0.613	0.613	ca	8.	7.			
Barium	7440-39-3	15,300.	-	15,300.	nc	364.	69.			

Created by: C. Zingsheim 4/22/2015
Checked by: J. Leasia 4/27/2015

BRRTS # :
GP-13 (2-4) Non Industrial

of Soil-Concentration Entries: 27

Number of Individual Exceedance	(Cumulative) Hazard Index	(Cumulative) Cancer Risk
6	0.0869	9.3E-04

Bottom-Line: **NO! This NON-INDUSTRIAL site sampling location will need either further cleanup to lower contaminant levels or the construction of a cap/cover to address the direct-contact pathway.**

Date of Entry: 4/23/2015.
Date of Worksheet Used: 01/22/2015.

List below only has contaminants with data.

Contaminant	CAS Number	NC RCL (mg/kg)	C RCL (mg/kg)	Not-To-Exceed D-C RCL (mg/kg)	Basis	BTV (mg/kg)	INPUTTED Site Data (mg/kg)	Flag E = Individual Exceedance!	Hazard Quotient (HQ) from Data	Cancer Risk (CR) from Data
Cadmium (Diet)	7440-43-9	70.	2,110.	70.	nc	1.	0.52			
Chromium, Total	7440-47-3	-	-			44.	22.			
Mercury (elemental)	7439-97-6	14.7	-	3.13	Csat		0.35		0.0238	
Lead and Compounds	7439-92-1	-	-	400.	nc	52.	160.			
Aroclor 1254	11097-69-1	1.12	0.221	0.221	ca		0.037		0.033	1.7E-07
Aroclor 1260	11096-82-5	-	0.221	0.221	ca		0.028			1.3E-07
Silver	7440-22-4	391.	-	391.	nc		0.17		0.0004	

Created by: C. Zingsheim 4/22/2015
Checked by: J. Leasia 4/27/2015

Direct-Contact **Exceedance - Hazard - Risk** Calculation Summary from Soil Data

BRRTS # : GP-14 (2-4) Non Industrial	# of Soil-Concentration Entries: 31	Please do not enter anything in this summary!	Number of Individual Exceedance 4	(Cumulative) Hazard Index 0.3842	(Cumulative) Cancer Risk 3.3E-05
Bottom-Line: NO! This NON-INDUSTRIAL site sampling location will need either further cleanup to lower contaminant levels or the construction of a cap/cover to address the direct-contact pathway.					

Date of Entry: 4/23/2015. List below only has contaminants with data.
 Date of Worksheet Used: 01/22/2015.

Contaminant	CAS Number	NC RCL (mg/kg)	C RCL (mg/kg)	Not-To-Exceed D-C RCL (mg/kg)	Basis	BTV (mg/kg)	INPUTTED Site Data (mg/kg)	Flag E = Individual Exceedance!	Hazard Quotient (HQ) from Data	Cancer Risk (CR) from Data
Ethylbenzene	100-41-4	4,220.	7.47	7.47	ca		0.02		0.	2.7E-09
Toluene	108-88-3	5,300.	-	818.	Csat		0.056		0.	
Xylenes	1330-20-7	890.	-	258.	Csat		0.13		0.0001	
Trichloroethylene	79-01-6	6.05	1.26	1.26	ca		0.39		0.0645	3.1E-07
Dichloroethylene, 1,1-	75-35-4	342.	-	342.	nc		0.26		0.0008	
Trichloroethane, 1,1,1-	71-55-6	12,300.	-	640.	Csat		6.3		0.0005	
Naphthalene	91-20-3	188.	5.15	5.15	ca		0.1		0.0005	1.9E-08
Benzo[a]pyrene	50-32-8	-	0.015	0.015	ca		0.19	E		1.3E-05
Acenaphthene	83-32-9	3,440.	-	3,440.	nc		0.01		0.	
Acenaphthylene	208-96-8	-	-				0.011			
Anthracene	120-12-7	17,200.	-	17,200.	nc		0.043		0.	
Benz[a]anthracene	56-55-3	-	0.148	0.148	ca		0.18	E		1.2E-06
Benzo[b]fluoranthene	205-99-2	-	0.148	0.148	ca		0.26	E		1.8E-06
Benzo[g,h,i]perylene	191-24-2	-	-				0.16			
Benzo[k]fluoranthene	207-08-9	-	1.48	1.48	ca		0.17			1.1E-07
Chrysene	218-01-9	-	14.8	14.8	ca		0.23			1.6E-08
Fluoranthene	206-44-0	2,290.	-	2,290.	nc		0.28		0.0001	
Fluorene	86-73-7	2,290.	-	2,290.	nc		0.013		0.	
Indeno[1,2,3-cd]pyrene	193-39-5	-	0.148	0.148	ca		0.1			6.8E-07
Methylnaphthalene, 1-	90-12-0	4,010.	15.6	15.6	ca		0.17		0.	1.1E-08

Created by: C. Zingsheim 4/22/2015
 Checked by: J. Leasia 4/27/2015

BRRTS # : GP-14 (2-4) Non Industrial	# of Soil-Concentration Entries: 31	Please do not enter anything in this summary!	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%;">Number of Individual Exceedance</td> <td style="width: 33%;">(Cumulative) Hazard Index</td> <td style="width: 33%;">(Cumulative) Cancer Risk</td> </tr> <tr> <td style="text-align: center;">4</td> <td style="text-align: center;">0.3842</td> <td style="text-align: center;">3.3E-05</td> </tr> </table>	Number of Individual Exceedance	(Cumulative) Hazard Index	(Cumulative) Cancer Risk	4	0.3842	3.3E-05
Number of Individual Exceedance	(Cumulative) Hazard Index	(Cumulative) Cancer Risk							
4	0.3842	3.3E-05							
Bottom-Line: NO! This NON-INDUSTRIAL site sampling location will need either further cleanup to lower contaminant levels or the construction of a cap/cover to address the direct-contact pathway.									

Date of Entry: 4/23/2015.
 Date of Worksheet Used: 01/22/2015.

List below only has contaminants with data.

Contaminant	CAS Number	NC RCL (mg/kg)	C RCL (mg/kg)	Not-To-Exceed D-C RCL (mg/kg)	Basis	BTV (mg/kg)	INPUTTED Site Data (mg/kg)	Flag E = Individual Exceedance!	Hazard Quotient (HQ) from Data	Cancer Risk (CR) from Data
Methylnaphthalene, 2-	91-57-6	229.	-	229.	nc		0.19		0.0008	
Phenanthrene	85-01-8	-	-				0.31			
Pyrene	129-00-0	1,720.	-	1,720.	nc		0.56		0.0003	
Arsenic, Inorganic	7440-38-2	34.3	0.613	0.613	ca	8.	10.	E	0.2915	1.6E-05
Barium	7440-39-3	15,300.	-	15,300.	nc	364.	49.			
Cadmium (Diet)	7440-43-9	70.	2,110.	70.	nc	1.	0.53			
Chromium, Total	7440-47-3	-	-			44.	10.			
Mercury (elemental)	7439-97-6	14.7	-	3.13	Csat		0.31		0.0211	
Lead and Compounds	7439-92-1	-	-	400.	nc	52.	120.			
Selenium	7782-49-2	391.	-	391.	nc		1.5		0.0038	
Dichloroethane, 1,1-	75-34-3	15,600.	4.72	4.72	ca		0.15		0.	3.2E-08

Created by: C. Zingsheim 4/22/2015
 Checked by: J. Leasia 4/27/2015

Direct-Contact **Exceedance - Hazard - Risk** Calculation Summary from Soil Data

BRRTS # : GP-14 (8-10) Non Industrial	# of Soil-Concentration Entries: 23	Number of Individual Exceedance	(Cumulative) Hazard Index	(Cumulative) Cancer Risk
		1	0.0023	5.7E-06
		Bottom-Line: NO! This NON-INDUSTRIAL site sampling location will need either further cleanup to lower contaminant levels or the construction of a cap/cover to address the direct-contact pathway.		

Date of Entry: 4/23/2015. List below only has contaminants with data.
Date of Worksheet Used: 01/22/2015.

Contaminant	CAS Number	NC RCL (mg/kg)	C RCL (mg/kg)	Not-To-Exceed D-C RCL (mg/kg)	Basis	BTv (mg/kg)	INPUTTED Site Data (mg/kg)	Flag E = Individual Exceedance!	Hazard Quotient (HQ) from Data	Cancer Risk (CR) from Data
Benzene	71-43-2	111.	1.49	1.49	ca		0.024		0.0002	1.6E-08
Toluene	108-88-3	5,300.	-	818.	Csat		0.035		0.	
Trichloroethane, 1,1,1-	71-55-6	12,300.	-	640.	Csat		0.13		0.	
Naphthalene	91-20-3	188.	5.15	5.15	ca		0.011		0.0001	2.1E-09
Benzo[a]pyrene	50-32-8	-	0.015	0.015	ca		0.067	E		4.5E-06
Anthracene	120-12-7	17,200.	-	17,200.	nc		0.011		0.	
Benz[a]anthracene	56-55-3	-	0.148	0.148	ca		0.042			2.8E-07
Benzo[b]fluoranthene	205-99-2	-	0.148	0.148	ca		0.07			4.7E-07
Benzo[g,h,i]perylene	191-24-2	-	-				0.14			
Benzo[k]fluoranthene	207-08-9	-	1.48	1.48	ca		0.031			2.1E-08
Chrysene	218-01-9	-	14.8	14.8	ca		0.065			4.4E-09
Fluoranthene	206-44-0	2,290.	-	2,290.	nc		0.046		0.	
Indeno[1,2,3-cd]pyrene	193-39-5	-	0.148	0.148	ca		0.058			3.9E-07
Methylnaphthalene, 1-	90-12-0	4,010.	15.6	15.6	ca		0.017		0.	1.1E-09
Methylnaphthalene, 2-	91-57-6	229.	-	229.	nc		0.02		0.0001	
Phenanthrene	85-01-8	-	-				0.052			
Pyrene	129-00-0	1,720.	-	1,720.	nc		0.2		0.0001	
Arsenic, Inorganic	7440-38-2	34.3	0.613	0.613	ca	8.	3.8			
Barium	7440-39-3	15,300.	-	15,300.	nc	364.	59.			
Cadmium (Diet)	7440-43-9	70.	2,110.	70.	nc	1.	0.21			

Created by: C. Zingsheim 4/22/2015
Checked by: J. Leasia 4/27/2015

List below only has contaminants with data.

[illegible]

Created by: C. Zingsheim 4/22/2015
Checked by: J. Leasia 4/27/2015

Direct-Contact **Exceedance - Hazard - Risk** Calculation Summary from Soil Data

BRRTS # : GP-15 (4-6) Non Industrial	# of Soil-Concentration Entries: 22	Number of Individual Exceedance	(Cumulative) Hazard Index	(Cumulative) Cancer Risk
		1	0.036	2.5E-06
Bottom-Line: NO! This NON-INDUSTRIAL site sampling location will need either further cleanup to lower contaminant levels or the construction of a cap/cover to address the direct-contact pathway.				

Date of Entry: 4/23/2015. List below only has contaminants with data.
Date of Worksheet Used: 01/22/2015.

Contaminant	CAS Number	NC RCL (mg/kg)	C RCL (mg/kg)	Not-To-Exceed D-C RCL (mg/kg)	Basis	BTV (mg/kg)	INPUTTED Site Data (mg/kg)	Flag E = Individual Exceedance!	Hazard Quotient (HQ) from Data	Cancer Risk (CR) from Data
Benzene	71-43-2	111.	1.49	1.49	ca		0.14		0.0013	9.4E-08
Ethylbenzene	100-41-4	4,220.	7.47	7.47	ca		0.15		0.	2.0E-08
Toluene	108-88-3	5,300.	-	818.	Csat		0.57		0.0001	
Xylenes	1330-20-7	890.	-	258.	Csat		0.99		0.0011	
Trimethylbenzene, 1,2,4-	95-63-6	89.8	-	89.8	nc		0.4		0.0045	
Naphthalene	91-20-3	188.	5.15	5.15	ca		1.3		0.0069	2.5E-07
Anthracene	120-12-7	17,200.	-	17,200.	nc		0.22		0.	
Benz[a]anthracene	56-55-3	-	0.148	0.148	ca		0.29	E		2.0E-06
Chrysene	218-01-9	-	14.8	14.8	ca		0.32			2.2E-08
Fluoranthene	206-44-0	2,290.	-	2,290.	nc		0.29		0.0001	
Methylnaphthalene, 1-	90-12-0	4,010.	15.6	15.6	ca		2.3		0.0006	1.5E-07
Methylnaphthalene, 2-	91-57-6	229.	-	229.	nc		2.3		0.01	
Phenanthrene	85-01-8	-	-				1.6			
Pyrene	129-00-0	1,720.	-	1,720.	nc		0.44		0.0003	
Arsenic, Inorganic	7440-38-2	34.3	0.613	0.613	ca	8.	6.7			
Barium	7440-39-3	15,300.	-	15,300.	nc	364.	32.			
Cadmium (Diet)	7440-43-9	70.	2,110.	70.	nc	1.	0.36			
Chromium, Total	7440-47-3	-	-			44.	5.5			
Mercury (elemental)	7439-97-6	14.7	-	3.13	Csat		0.11		0.0075	
Lead and Compounds	7439-92-1	-	-	400.	nc	52.	27.			

Created by: C. Zingsheim 4/22/2015
Checked by: J. Leasia 4/27/2015

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Created by: C. Zingsheim 4/22/2015
Checked by: J. Leasia 4/27/2015

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Appendix F

Environmental Liability Financial Analysis

**WisDOT Wheelhouse Road
I-94/Wheelhouse Road
WisDOT ID# 1060-27-00
Environmental Liability Financial Analysis**

April 27, 2015

Background

The Wisconsin Department of Transportation (WisDOT) is considering the acquisition of a parcel at 3760 Wheelhouse Rd. (Outlot 1), herein “the parcel.” The WisDOT is evaluating acquisition of the parcel for possible relocation of an adjacent existing electrical substation. This parcel was formerly owned by CMC Heartland Partners and is currently owned by the City of Milwaukee. There are environmental impacts at the parcel, as described in the Phase 3 Investigation Report. TRC contacted the WDNR (Margaret Brunette), however the DNR would not identify the Responsible Party for the environmental impacts or how they are being managed at this time.

The WisDOT has various mechanisms to obtain rights to access or utilize parcels. The options should be discussed with the WisDOT real estate department. TRC has worked with the WisDOT on sites where they are the owner (acquisition) and where they are using a property under easement with the property owner (a.k.a. acquisition under easement).

- If the WisDOT acquires the property, it is possible they would also acquire the environmental liability. There are mechanisms to acquire properties with known environmental impacts, where the responsibility for the investigation and remediation of existing environmental impacts stays with the former owner/responsible party. If acquisition is necessary, not taking responsibility for the existing impacts should be considered due to the anticipated high cost of remediation at this site, particularly due to the varying nature of the contamination.
- Acquisition under easement, for specified property uses, would likely prevent the WisDOT from having any responsibility for existing contamination.

In either case, the legal agreement the WisDOT plans to enter should be reviewed by the WisDOT council, and should be discussed with the Wisconsin Department of Natural Resources (WDNR) legal department to ensure the appropriate information is included regarding responsibility for the existing contamination. The WDNR project manager for the site referred the WisDOT to talk to WDNR legal, as she could not answer questions regarding transfer of responsible party status.

Financial Analysis

A financial analysis was completed for the WisDOT, outlining potential costs associated with various acquisition and use scenarios at the parcel. In Scenarios A, B, and C acquisition under

easement only is considered, but in Scenario D acquisition (with environmental liability) is considered. The estimated costs for materials management during construction, further remedial investigations, and remedial actions are outlined below, and the costs associated with each Scenario are shown in Tables 1 and 2.

Base Area Assumptions

The area of the WisDOT parcel is approximately 79,000 sq. ft. The proximate electrical substation footprint, that would be relocated, is approximately 69,000 sq. ft. It was assumed that the base area of the new substation on the parcel would also cover 69,000 sq. ft. If the area of the electrical substation is less than 69,000 sq. ft., the volumes and costs will change (likely decrease).

There is a railroad right-of-way adjacent to the Wheelhouse parcel. Due to the approximate area of the substation, only a 15 ft. set-back from the railroad is possible. The following calculations have used the 15 ft. set-back. If the set-back is identified to be larger, by requirement of the railroad, electrical utility, or the WisDOT, the volumes of material and estimated management costs will change (likely decrease because the area of construction would be smaller).

Scenarios for Cost Estimates

For the parcel a cost-benefit analysis, including four scenarios, was completed.

A. Minimal (6 inch) Grading Scenario

Average six inch cut/grading required across the site to construct base for new substation (does not include the area of the 15 ft. set-back).

- WisDOT acquires the property in easement, with no liability for existing contamination.
- WisDOT is required to manage material generated during construction of the electrical substation.
- Off-site disposal of the waste at a licensed disposal facility.
- Backfill/fill is assumed to be provided by the electrical utility contractor per their specifications.
- Groundwater and free product are assumed not to be encountered.
- Reporting.
- Railroad liability insurance is obtained for the WisDOT during construction only. Any insurance requirements are then covered by the electrical utility.
- No continuing obligation for the WisDOT following disposal reporting.
- The cost range is based on -30 to +50% the expected cost.

B. Moderate (2 feet) Grading Scenario

Average of two feet cut/grading required across the site to construct base for new substation (does not include the area of the 15 ft. set-back).

- WisDOT acquires the property in easement, with no liability for existing contamination.
- WisDOT is required to manage material generated during construction of the electrical substation.
- Off-site disposal of the waste at a licensed disposal facility.
- Backfill/fill is assumed to be provided by the electrical utility contractor per their specifications.
- Groundwater and free product are assumed not to be encountered.
- Reporting.
- Railroad liability insurance is obtained for the WisDOT during construction only. Any insurance requirements are then covered by the electrical utility.
- No continuing obligation for the WisDOT following disposal reporting.
- The cost range is based on -30 to +50% the expected cost.

C. Grading/Footer Excavation Scenario

Average two feet cut/grading required across the site (does not include the area of the 15 ft. set-back). Additionally, five feet deep excavations (three feet below site grading cut) required in select areas for equipment pad and poles/above ground structures. The deeper excavation assumed to be area of approximately 4,850 sq. ft.

- WisDOT acquires the property in easement, with no liability for existing contamination.
- WisDOT is required to manage material generated during construction of the electrical substation.
- Off-site disposal of the waste at a licensed disposal facility.
- Backfill/fill/foundations are assumed to be provided by the electrical utility contractor per their specifications.
- Groundwater and free product are assumed not to be encountered.
- Railroad liability insurance is obtained for the WisDOT during construction only. Any insurance requirements are then covered by the electrical utility.
- Reporting.
- No continuing obligation for the WisDOT following disposal reporting.
- The cost range is based on -30 to +50% the expected cost.

D. Acquisition/Remediation Scenario

WisDOT acquires the property ownership, and the associated environmental liability, and further investigation and remediation are completed by the WisDOT across the site (including the 15 ft. set-back) to achieve site closure.

- A remedial investigation is conducted, including the installation of eight permanent 2" monitoring wells and six 1" observation wells to monitor groundwater quality and free product thicknesses (if any). Includes groundwater sampling, free product thickness gauging, and reporting.
- A remedial action is completed to remove contaminated soil from 0 to 4 feet below ground surface, across the entire site area (including the 15 ft. set-back). Groundwater and free product are assumed not to be encountered during the remedial excavation.
- Backfill/fill is assumed to be provided by the electrical utility contractor per their specifications from 0 to 2 ft. bgs. Backfill is included in the estimate for 2 to 4 ft. bgs in the electrical substation portion of the site, and from 0 to 4 ft. bgs in the 15 ft. set-back area.
- A groundwater monitoring O&M program is initiated following the remedial action, and continues semi-annually for 10 years.
- Railroad liability insurance is obtained for the WisDOT during construction, and renewed annually for 10 years during O&M.
- A sub-scenario (D-2) accounts for free product recovery if gauging indicates the presence of recoverable free product.
- Obligation for the WisDOT ends after a 10 year monitored natural attenuation for groundwater contamination.
- No remedial action beyond soil excavation and free product recovery for sub-scenario (D-2) is considered. Additional remediation for deeper soil contamination, groundwater impacts, or other unidentified COCs would add cost.
- The cost range is based on -50% to +100% the expected cost.

Work Task Descriptions

Waste Characterization Sampling and Treatability Testing

The Phase 3 investigation identified contaminants of concern (COCs) in soil as petroleum volatile organic compounds (PVOCs), semi-volatile organic compounds (SVOCs), PCBs, and RCRA metals. The TCLP lead results were below the limits for non-hazardous landfill disposal. Groundwater COCs are isopropylbenzene, SVOCs and PCBs. Dissolved metals were not encountered above NR140 standards.

For the assumed grading and excavations at the site under the various scenarios, the disposal facilities will require analytical testing. It's possible that the Phase 3 analytical data will support the waste characterization testing (fewer samples and/or fewer analyses), but no potential disposal facilities were contacted as part of this estimate. After 12 months, new waste characterization data will be needed. Therefore, new data is assumed necessary for all the scenarios.

- The frequency for analysis for waste characterization is based on WDNR Remediation and Redevelopment guidance and conversations with a representative of a non-hazardous disposal facility. The waste must be fully characterized for disposal, including each contaminant of concern/source area. For this financial analysis, one sample for each 300 cubic yards is assumed, to a maximum of 30 samples. Depending on site conditions and anticipated excavation volumes, the number of samples may change (lower or higher).
- Given the results of the Phase 3, the waste characterization samples will be analyzed for: PVOCs, SVOCs, RCRA 8 metals, TCLP lead, PCBs, reactive cyanide, reactive sulfide, chlorine, ignitability, and pH.
- Potential asbestos containing material (PACM) is a COC at the site. During the Phase 3 investigation PACM was not identified, and all samples were negative for ACM. Given the size of the site, for the waste characterization sampling, it is assumed 50% of the samples will be analyzed for ACM. For the excavation cost estimate, described below, it assumed no PACM is identified at the site.
- Total lead concentrations in the soil indicate the potential to leach, and TCLP testing is planned during waste characterization sampling. Based on the Phase 3 TCLP lead results, it is assumed the results of the waste characterization will allow for disposal as non-hazardous waste, without stabilization or treatment prior to disposal.
- The field effort for waste characterization sampling is Scenario A – 1 day, Scenarios B & C – 2 days, Scenario D – 3 days.
- The total duration of this task is approximately four weeks following approvals, for sampling, analysis, and reporting.
- A Trimble GPS, or similar instrument, is included to document the locations of the waste characterization samples.
- Railroad insurance is included.
- This task also includes project management, waste profile generation support, and reporting.

Excavation, Hauling, and Off-Site Disposal

Under Scenarios A, B, C, and D, an excavation is assumed to be needed for construction of the electrical substation. In Scenario D, the excavation is also assumed to extend to four ft. bgs to complete removal of contamination within the top four feet at the site.

The following are assumptions made regarding the excavation, hauling, and off-site disposal activities.

- The volume of excavation is as follows. Tonnages were calculated at 1.5 tons/cubic yard.
 - Scenario A: 0.5 ft. depth x 69,000 sq. ft.; 1,950 tons
 - Scenario B: 2 ft. depth x 69,000 sq. ft.; 7,800 tons
 - Scenario C: 2 ft. depth x 69,000 sq. ft. + 3 ft. depth x 4,850 sq. ft.¹; 8,600 tons
 - Scenario D: 4 ft. depth x 79,000 sq. ft.; 17,500 tons
- Backfill for the excavations is as follows.
 - Scenario A: None
 - Scenario B: 2 ft. backfill provided by electric utility
 - Scenario C: 2 ft. backfill and foundations constructed and provided by electric utility
 - Scenario D: 2 ft. crushed gravel backfill (2 to 4 ft. bgs) provided by the WisDOT contractor, 2 ft. backfill provided by electric utility
- Loading, hauling, and tipping is estimated at \$50 per ton.
- No PACM disposal is assumed.
- No hazardous lead contaminated soil disposal is assumed.
- The field effort for excavation oversight is Scenario A – 8 days, Scenario B – 15 days, Scenario C – 20 days, and Scenario D – 30 days.
- The total duration of this task, following approvals, subcontractor qualification, and mobilization, is approximately:
 - Scenario A: 4 weeks, plus reporting following receipt of waste disposal documentation
 - Scenario B: 4 weeks, plus reporting following receipt of waste disposal documentation
 - Scenario C: 6 weeks, plus reporting following receipt of waste disposal documentation
 - Scenario D: 8 weeks, plus additional tasks below (reporting included along with appropriate report to a task below)
- A land survey is included to locate the extents of excavation.

¹ Three feet depth will extend excavations to five total feet for foundations under electrical equipment. The area of 4,850 sq. ft. was estimated from the footprint of adjacent proximate utility equipment (1,515 sq. ft. + 25% 13,360 sq. ft.).

- Railroad insurance is not included, as the excavation is assumed to occur in the same 12 month period as the waste characterization activities.
- This task also includes project management and reporting. No continuing obligations are assumed for Scenarios A, B, and C. For Scenario D, see the following work task.

Remedial Investigation, Remedial Action, and O&M

Scenario D assumes that the WisDOT acquires the parcel and the environmental liability for the existing contamination. Under this work task, it is assumed that the WisDOT completes a remedial investigation at the direction of the Wisconsin Department of Natural Resources (WDNR). The investigation would include the installation of permanent groundwater monitoring wells at the site. Potential free product was identified during the Phase 3 investigation. If free product is found at the site in recoverable quantities, a free product recovery system may need to be installed and operated. O&M is anticipated for the site under this work task.

- A remedial excavation is considered under the above work task. This excavation would remove contaminated shallow soil (0 to 4 ft. bgs) from the site. The costs for this task are included in the excavation section of Table 2.
- A remedial investigation will be necessary to determine the extents of impacts to groundwater and to install a permanent groundwater monitoring well network.
 - The network will consist of eight 2" diameter PVC wells, two 2" diameter PVC piezometers, and six 1" diameter PVC observation wells. Wells will be screened at the water table (approximately 5 to 15 ft. bgs) and the piezometers will be screened below the water table (approximately 30 to 40 ft. bgs, depending upon geologic conditions).
 - During the investigation, two rounds of groundwater samples will be collected for analysis, and two rounds of groundwater levels and free product gauging will be conducted. If free product is encountered in any of the wells, a free product recovery method will be selected in the report (this is considered below under Scenario D-2).
 - Groundwater samples will be analyzed for PVOCs, SVOCs, PCBs, and RCRA metals. For these two rounds of samples, all 16 site wells will be sampled.
 - Field work is assumed to take seven days, three days for the monitoring well installation, and two days each for the two sampling events.
 - One survey is included to locate the monitoring well locations.
 - Railroad insurance is not included, as the investigation is assumed to occur in the same 12 month period as the excavation activities.

- A remedial investigation report will be prepared, including a conclusions and recommendations section for continuing O&M.
- Groundwater monitoring for natural attenuation of impacts is assumed to be required for 10 years following the remedial investigation. Semi-annual groundwater monitoring and reporting is included.
 - The permanent wells and piezometers will be sampled semi-annually. Groundwater samples will be analyzed for PVOs, SVOCs, and PCBs. Based on Phase 3 samples, dissolved metals are not a COC at the Site.
 - Field work is assumed to take two days each for the two sampling events.
 - Railroad insurance is included.
 - Semi-annual reporting and project management are included.
- If free product is measured in the site monitoring wells, a product recovery plan will be developed.
 - Design a free product recovery system. The cost for installation and operation and maintenance assume a passive recovery system (no electricity). If an active system is needed, the cost would be higher.
 - Install the free product recovery system. Cost includes subcontracting and field oversight.
 - Operate and maintain free product recovery system for 5 years. The cost for reporting are included with the groundwater monitoring (i.e. no additional reporting costs are included).
 - Disposal of free product is assumed to be disposed of under a separate WisDOT contract, and the rates/cost is not included here.
 - Railroad insurance is not included, as the costs are included under the groundwater O&M program.
- Following the O&M program, the site is assumed ready for closure, and monitoring well abandonment. The cost estimate includes preparation of the Case Closure Form, fees, and costs for groundwater monitoring well abandonment.

Summary & Conclusions of Financial Analysis

The financial analysis completed for the parcel considered four scenarios. The first three scenarios were for management of construction waste generated during construction of the substation, on the parcel acquired in easement by the WisDOT. The estimated cost ranges for each of these scenarios are:

	SCENARIO A	SCENARIO B	SCENARIO C
	MINIMAL GRADING (6 in.)	MODERATE GRADING (2 ft.)	GRADING/FOOTER EXCAVATION
ESTIMATED COST	\$100,000 - \$210,000	\$310,000 - \$660,000	\$340,000 - \$740,000
Total Volume Removed (cy)	1,300	5,200	5,800
Total Tonnage Removed (tons)	1,950	7,800	8,600
Field Duration	1 month	1-2 months	2+ months

The fourth scenario considered in this analysis was acquisition of the parcel, including the existing environmental liabilities. This scenario was divided into two cases, one where free product recovery was necessary, and the other where it was not. The estimated cost ranges for these two scenarios are:

	SCENARIO D-1	SCENARIO D-2
	ACQUISITION/REMEDATION NO FREE PRODUCT	ACQUISITION/REMEDATION FREE PRODUCT RECOVERY
Estimated Cost	\$700,000 - \$2,800,000	\$750,000 - \$3,000,000
Total Volume Removed (cy)	11,700	11,700
Total Tonnage Removed (tons)	17,500	17,500
Field Duration	2+ months, annual O&M	2+ months, annual O&M

As outlined above, there are a number of variables that will influence the cost of any remediation or construction waste management necessary at the site. Particularly, significant variation to the size and depth of any necessary grading/excavation would change the estimated costs. Importantly, for Scenarios D-1 and D-2, where the WisDOT acquires the parcel, the costs are significantly greater than Scenarios A, B, and C.

Table 1
Detailed Cost Estimates for Remediation Scenarios
WisDOT I-94/Wheelhouse Road
Milwaukee, Milwaukee County, WI
WisDOT ID# 1060-27-00

Work Task		Scenario A	Scenario B	Scenario C	Scenario D-1	Scenario D-2
		Minimal Grading (6 in.)	Moderate Grading (2 ft.)	Grading/Footer Excavation	Acquisition/Remediation No Free Product	Acquisition/Remediation Free Product Recovery
Waste Characterization Sampling and Treatability Testing	Labor Costs	\$ 8,400	\$ 9,100	\$ 9,800	\$ 9,800	\$ 9,800
	Laboratory Costs	\$ 5,100	\$ 11,300	\$ 12,300	\$ 17,200	\$ 17,200
	Direct Expenses	\$ 400	\$ 700	\$ 700	\$ 1,000	\$ 1,000
	Task Subtotal	\$ 13,900	\$ 21,100	\$ 22,800	\$ 28,000	\$ 28,000
Excavation, Treatment, Hauling, and Off-Site Disposal	Labor Costs	\$ 18,200	\$ 23,100	\$ 26,700	\$ 33,800	\$ 33,800
	Subcontractor Costs	\$ 102,200	\$ 395,900	\$ 435,900	\$ 1,059,700	\$ 1,059,700
	Direct Expenses	\$ 1,200	\$ 2,100	\$ 2,800	\$ 4,200	\$ 4,200
	Task Subtotal	\$ 122,000	\$ 422,000	\$ 466,000	\$ 1,098,000	\$ 1,098,000
Remedial Investigation, Design, Construction, and O&M						
-Remedial Investigation and Reporting	Labor Costs	\$ -	\$ -	\$ -	\$ 29,900	\$ 29,900
	Subcontractor Costs	\$ -	\$ -	\$ -	\$ 35,300	\$ 35,300
	Direct Expenses	\$ -	\$ -	\$ -	\$ 4,200	\$ 4,200
	Subtotal	\$ -	\$ -	\$ -	\$ 69,400	\$ 69,400
-Groundwater O&M -- 10 years	Labor Costs	\$ -	\$ -	\$ -	\$ 111,500	\$ 111,500
	RR Insurance	\$ -	\$ -	\$ -	\$ 25,000	\$ 25,000
	Direct Expenses	\$ -	\$ -	\$ -	\$ 14,900	\$ 14,900
	Subtotal	\$ -	\$ -	\$ -	\$ 152,000	\$ 152,000
-Product Recovery System Design, Installation, and O&M -- 5 years	Labor Costs	\$ -	\$ -	\$ -	\$ -	\$ 90,400
	Subcontractor Costs	\$ -	\$ -	\$ -	\$ -	\$ 61,200
	Direct Expenses	\$ -	\$ -	\$ -	\$ -	\$ 11,000
	Subtotal	\$ -	\$ -	\$ -	\$ -	\$ 162,600
-Case Closure	Labor Costs	\$ -	\$ -	\$ -	\$ 10,400	\$ 10,400
	Well Abandonment	\$ -	\$ -	\$ -	\$ 6,600	\$ 6,600
	Direct Expenses	\$ -	\$ -	\$ -	\$ 1,700	\$ 1,700
	Subtotal	\$ -	\$ -	\$ -	\$ 18,700	\$ 18,700
Task Subtotal		\$ -	\$ -	\$ -	\$ 240,000	\$ 403,000
Total Estimated Cost	Total	\$ 140,000	\$ 440,000	\$ 490,000	\$ 1,400,000	\$ 1,500,000
Estimated Cost Range	Low	\$ 100,000	\$ 310,000	\$ 340,000	\$ 700,000	\$ 750,000
	High	\$ 210,000	\$ 660,000	\$ 740,000	\$ 2,800,000	\$ 3,000,000