

January 8, 2021

Ms. Me'le'sa Greene
Wisconsin Department of Natural Resources
2300 N. Dr. Martin Luther King Jr. Dr.
Milwaukee, WI 53212

Subject: Phase 4 Management of Contaminated Soil Documentation Report
Durand Ave. (STH 11), Kentucky St. to Kearney Ave.
City of Racine, Racine County, Wisconsin
WisDOT Project ID #2260-07-70
TRC Project #358418.0000.000

Dear Ms. Greene:

Enclosed is the management of contaminated soil documentation report for the reconstruction of Durand Ave. (STH 11), Kentucky St. to Kearney Ave. in the City of Racine, Racine County. The report documents the handling and landfill disposal of contaminated soil excavated at several locations along the project corridor during installation of new storm sewer, traffic signals, and grading.

If you have questions regarding this project or report, please contact me at 262-901-2126.

Sincerely,

TRC

A handwritten signature in black ink, appearing to read "Bryan Bergmann".

Bryan Bergmann, P.G.
Project Manager

cc: Andy Malsom – WisDOT (pdf via email)
Shar TeBeest – WisDOT (pdf via email)
Dan Haak – TRC



Management of Contaminated Soil

**Durand Ave. (STH 11),
Kentucky St. to Kearney Ave.
Racine, Racine County, WI**

January 2021

WisDOT ID #2260-07-70

Prepared For:

Wisconsin Department of Transportation

Prepared By:

TRC
150 N. Patrick Blvd., Suite 180
Brookfield, WI 53045

A handwritten signature in blue ink, appearing to read "Bryan Bergmann", written over a horizontal blue line.

Bryan Bergmann, P.G.
Project Manager

A handwritten signature in blue ink, appearing to read "Daniel Haak", written over a horizontal blue line.

Daniel Haak, P.E.
TRC Quality Assurance

TABLE OF CONTENTS

EXECUTIVE SUMMARY	III
1.0 INTRODUCTION.....	4
1.1 Background.....	4
1.2 Purpose.....	5
2.0 CONTAMINATION MANAGEMENT.....	5
2.1 Contaminated Soil Management.....	5
2.2 Well Abandonment.....	6
3.0 CONCLUSIONS AND RECOMMENDATIONS	6

TABLES

Table 1: Summary of Soil Field-Screening Results

FIGURES

Figure 1: Site Location Map

Figure 2: Project Corridor

Figure 3: Contaminated Soil Location Station 83+00 to 92+00

Figure 4: Contaminated Soil Location Station 101+00 to 109+00

Figure 5: Contaminated Soil Location Station 110+00 to 118+50

Figure 6: Contaminated Soil Location Station 119+00 to 127+00

APPENDICES

Appendix A: Special Provisions, Plans, & WDNR Concurrence Letter

Appendix B: Waste Profiles & Disposal Documentation

Appendix C: Photographic Log

Appendix D: AS-1 Abandonment Information

COMMONLY USED ABBREVIATIONS AND ACRONYM LIST

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 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

The WisDOT recently completed the reconstruction of Durand Ave. (STH 11), from Kentucky St. to Kearney Ave. in the City of Racine, Racine County (WisDOT ID 2260-07-70). Improvements included new pavement, new sidewalk, street lighting, landscaping, signal replacement, signage, pavement marking, and spot storm sewer improvement.

The WisDOT retained TRC, to field-screen and manage the disposal of contaminated soil during excavations at areas where contamination was previously identified via a Phase 2.5 Investigation. The prime contractor was Zignego Company, Inc. (Zignego). The WisDOT contact was Charles Krummel. The project leader was Josh Skarsten (AECOM). The project manager at Zignego was Jeff Kuhn.

Contaminated soil was managed and disposed at the Republic Services Kestrel Hawk Landfill in Racine, Wisconsin via three waste profiles. In total, 3,102.4 tons of contaminated soil was excavated, hauled, and disposed of either as daily cover (1,265.16 tons), bioremediation (471.21 tons), or direct landfill (1,366.03 tons).

This report includes a summary of the activities (field-screening) that occurred during excavations at multiple locations within the project limits; these locations were previously identified in the Special Provisions for contamination identified during a Phase 2.5 Investigation. An air sparging well, AS-1, was discovered during Phase 4 activities, abandoned by TRC, and is discussed further in Section 2.2.

The WisDOT has fulfilled its commitment to manage contaminated soil during the reconstruction of Durand Ave. (STH 11), from Kentucky St. to Kearney Ave. in accordance with the Special Provisions. TRC recommends that the WisDOT take no further action to investigate or remediate soil impacts that may remain at locations where contaminated soil was encountered.

1.0 Introduction

1.1 Background

The WisDOT recently reconstructed Durand Ave. (STH 11), from Kentucky St. to Kearney Ave. in the City of Racine, Racine County. The project corridor is shown on Figure 1.

In 2017, TRC completed a Phase 2.5 investigation for the project. The results of the Phase 2.5 indicated petroleum-contaminated soil was present at several locations within the project limits. Chlorinated volatile organic compounds (CVOCs) were present at two locations near an active dry cleaner. Contaminated soil excavated for the project would require landfill disposal.

The locations of petroleum-contaminated soil are described below:

- Station 85+40 to 86+50, from reference line to project limits left, from approximately 1 to 8+ feet below grade. Approximately 283 CY (481 tons) of petroleum-contaminated soil will be excavated from this location.
- Station 86+50 to 87+50, from reference line to project limits left, from approximately 8 to 16+ feet below grade. Approximately 0 CY (0 tons) of petroleum-contaminated soil will be excavated from this location.
- Station 86+50 to 87+50, from reference line to project limits right, from approximately 4 to 16+ feet below grade. Approximately 5 CY (9 tons) of petroleum-contaminated soil will be excavated from this location.
- Station 105+00 to 105+80, from project limits left to project limits right, from approximately 1 to 6+ feet below grade. Approximately 411 CY (699 tons) of petroleum-contaminated soil will be excavated from this location.
- Station 113+40 to 114+10, from reference line to 70 feet left of reference line, from approximately 1 to 6+ feet below grade. Approximately 317 CY (539 tons) of petroleum-contaminated soil will be excavated from this location.
- Station 114+00 to 115+00, from reference line to project limits right, from approximately 4 to 8+ feet below grade. Approximately 0 CY (0 tons) of petroleum-contaminated soil will be excavated from this location.

The locations of solid waste (CVOC-contaminated) soils are described below:

- Station 121+50 to 123+10, from reference line to project limits right, from approximately 1 to 8+ feet below grade. Approximately 638 CY (1,085 tons) of solid waste soil will be excavated from this location.
- Station 122+00 to 123+00, from reference line to project limits left, from approximately 1 to 16+ feet below grade. Approximately 16 CY (28 tons) of solid waste soil will be excavated from this location.

Copies of the Special Provisions, Plans, and the WDNR concurrence letter are provided in Appendix A.

The WisDOT's prime contractor for the project, Zignego Company, Inc. (Zignego), chose the Republic Services Kestrel Hawk Landfill in Racine, Wisconsin, for disposal of contaminated soil excavated by the project.

Three waste profiles were generated for contaminated soil for the project:

- Waste profile 3063201859 (alternate daily cover) was used for low-level petroleum-contaminated soil.
- Waste profile 3063201603 (bioremediation) was used for petroleum-contaminated soil that could not be classified as alternate daily cover.
- Waste profile 3063202272 (direct landfill) was used for soil contaminated with CVOCs.

Waste profile forms and laboratory reports are provided in Appendix B.

1.2 Purpose

The purpose of this report is to document the results of field-screening and contaminated soil management oversight during the reconstruction of Durand Ave. (STH 11), from Kentucky St. to Kearney Ave. Section 2 of this report includes a summary of the activities that occurred at the eight contaminated soil locations identified in the Special Provisions and abandonment of an air sparge well encountered during construction. Section 3 of this report provides conclusions and recommendations regarding the reconstruction project.

2.0 Contamination Management

From February to September 2020, TRC periodically made site visits, on an as needed basis, to oversee the handling, management, and disposal of contaminated materials encountered on the project. Details regarding the management of various environmental concerns encountered on the project are discussed below.

2.1 Contaminated Soil Management

Special Provisions required field-screening and management of contaminated soil from the areas described in Section 1.1 and shown on Figures 2 through 6.

Contaminated soil was encountered during excavation for signal bases, storm sewer, and general grading including excavation below subgrade (EBS) at various locations throughout the construction corridor, as shown on Figures 2 through 6. Depths of contamination in the various areas ranged from immediately below subgrade to maximum depths of excavations (approximately 16 feet bgs in select areas). Petroleum-contaminated soils that required landfilling were determined by either historical analytical results, obvious petroleum odors, petroleum staining, or elevated PID results. Soil field screening results are summarized in Table 1.

Contaminated soils were disposed at the Republic Services Kestrel Hawk Landfill in Racine, Wisconsin. Low-level petroleum-contaminated soils were disposed as daily cover soil under waste profile 3063201859. In total, 1,265.16 tons of soil was disposed as daily cover. Some limited areas of elevated petroleum-contaminated soils required disposal as bioremediation soil under waste profile 3063201603. In total, 471.21 tons of soil was disposed as bioremediation

soil. CVOC-contaminated soils were disposed as direct landfill soil under waste profile 3063202272. In total, 1,366.03 tons of soil was disposed as direct landfill.

A total of 3,102.4 tons of contaminated soils were excavated from the project corridor, loaded into trucks, and hauled to the landfill for disposal. Copies of the landfill tonnage reports are provided in Appendix B. Photographs documenting field activities are included in Appendix C.

2.2 Well Abandonment

On May 28, 2020, the project encountered three wells in the ROW near the northeast corner of STH 11 and Lathrop Ave. The wells were determined to be previously associated with the Mobil Oil Service 05-KT5 site (Closed LUST Site, BRRTS No. 03-52-000202) at 3818 Durand Ave.

TRC made a site visit on May 29, 2020, to inspect the wells and determine if abandonment was required. TRC acquired a map of the site depicting the locations and the names of wells located on the property. Two of the wells, MW-7 and MW-1 appeared to have already been abandoned prior to the road construction project. The third well, AS-1, an air sparging well-constructed with a steel casing, was observed to have not been abandoned. TRC measure the depth to water and then abandoned the well with bentonite. Photographs of the wells are included in Appendix C. Site maps for the Mobil Oil Service 05-KT5 site and the abandonment form for AS-1 are provided in Appendix D.

3.0 Conclusions and Recommendations

TRC completed observation of the contractor's excavations and the management of contaminated soil at multiple locations for the WisDOT during the reconstruction of Durand Ave. (STH 11), from Kentucky St. to Kearney Ave. in the City of Racine.

Contaminated soil was encountered during installation of signal bases, storm sewer, and general grading including EBS.

Contaminated soil was disposed under the following waste profiles at the Republic Services Kestrel Hawk Landfill in Racine, Wisconsin.

- 3063201859: Daily cover soil – 66 trucks, 1,265.16 tons (initial estimate of 1,238 tons)
- 3063201603: Bioremediation soil – 27 trucks, 471.21 tons (initial estimate of 490 tons)
- 3063202272: Direct landfill soil – 71 trucks, 1,366.03 tons (initial estimate of 1,113 tons)

In total, 3,102.4 tons of contaminated soil (initial estimate of 2,841 tons) was sent for disposal to the Republic Services Kestrel Hawk Landfill in Racine, Wisconsin.

The WisDOT has fulfilled its commitment to manage contaminated soil during the reconstruction of Durand Ave. (STH 11), from Kentucky St. to Kearney Ave. in accordance with the Special Provisions. Additionally, during the Phase 4 activities, an air sparge well (AS-1) was discovered in the ROW near 3818 Durand Ave. and was abandoned. TRC recommends that the WisDOT take no further action to investigate or remediate soil impacts that may remain at locations where contaminated soil was encountered.

**Table 1: Summary of Soil Field-Screening Results
Durand Ave. (STH 11), Racine, Racine County, Wisconsin
WisDOT Project ID #2260-07-70**

DATE	ACTIVITY	STATION	LEFT / RIGHT OF REFERENCE LINE	CONTAMINATION TYPE	DEPTH (ft bgs)	PID (ppm)	SOIL TYPE	SOIL DESCRIPTION
2/18/2020	Electric line	122+15	RT 25	Petroleum	4	<1	Clay	No odor, No staining
		122-15	LT 25	Petroleum	4	<1	Clay	No odor, No staining
		87+05	LT 20	Petroleum	7	2.1	Clay	Petroleum odor, black staining
		87+05	RT 20	Petroleum	7	<1	Clay	No odor, black staining
3/20/2020	Storm	122+60	LT 60	Other VOCs	3	<1	Clay, Silt	No odor, No staining
		122+55	LT 30	Other VOCs	7	<1	Clay, Silt	No odor, No staining
		122+55	LT 20	Other VOCs	5	<1	Clay, Silt, Fine Sand	No odor, No staining
		122+55	LT 10	Other VOCs	7	<1	Clay, Silt, Fine Sand	No odor, No staining
3/23/2020	Storm	113+85	LT 75	Petroleum	5	<1	Clay, Silt, Coarse Gravel	No odor, black and gray staining
		114+00	LT 75	Petroleum	6	<1	Clay, Silt, Coarse Sand, Coarse Gravel	No odor, black staining
		114+10	LT 75	Petroleum	6	<1	Clay, Silt, Coarse Sand, Coarse Gravel	No odor, black and gray staining
		114+25	LT 65	Petroleum	2	<1	Silt, Fine Sand	No odor, black and gray staining
3/24/2020	Storm	113+85	LT 75	Petroleum	4	<1	Clay, Silt	No odor, black staining
		113+75	LT 50	Petroleum	5	<1	Clay, Silt	No odor, black staining
		113+85	LT 85	Petroleum	2	<1	Clay, Silt, Fine Gravel	No odor, black and gray staining
		114+00	LT 85	Petroleum	2	<1	Clay Silt, Fine Sand	Slight Petroleum odor, black and gray staining
		114+30	LT 100	None	4	<1	Clay, Silt	No odor, No staining
		114+35	LT 40	None	3	<1	Clay, Silt, Fine Sand	No odor, No staining
		114+35	LT 40	None	5	<1	Clay, Silt, Fine Sand	No odor, No staining
		114+40	LT 25	None	3	<1	Clay, Silt	No odor, No staining
		114+45	LT 15	None	6	<1	Clay, Silt	No odor, No staining
		114+60	LT 5	None	4	<1	Coarse Gravel, Silt, Coarse Sand	No odor, No staining
3/25/2020	Storm	113+75	LT 35	Petroleum	2	<1	Coarse Sand, Coarse Gravel	No odor, No staining
		113+60	LT 40	Petroleum	6	<1	Clay, Silt, Coarse Sand, Coarse Gravel	No odor, black staining
		114+45	LT 40	Petroleum	7	<1	Clay, Silt	No odor, black staining
		113+35	LT 50	Petroleum	5	1.1	Clay, Silt, Fine Sand	No odor, black staining
		113+30	LT 50	Petroleum	3	<1	Coarse Sand, Silt, Coarse Gravel	No odor, No staining
		113+35	LT 50	Petroleum	8	2	Clay, Silt, Fine Sand	No odor, black staining
		113+40	LT 25	Petroleum	2	<1	Coarse Sand, Fine Gravel	No odor, No staining
		113+40	LT 15	Petroleum	6	<1	Clay, Silt, Fine Sand	No odor, gray staining
		123+00	LT 40	Other VOCs	2	<1	Fine Sand, Clay, Silt	No odor, No staining
		122+75	LT 20	Other VOCs	2	<1	Fine Sand, Clay, Silt	No odor, No staining
4/6/2020	Grading/Excavating	122+50	LT 20	Other VOCs	2	<1	Clay, Fine Gravel, Silt	No odor, No staining
		122+25	LT 20	Other VOCs	2	<1	Coarse Sand, Coarse Gravel, Silt	No odor, No staining
		122+00	LT 20	Other VOCs	2	<1	Coarse Gravel, Coarse Sand	No odor, No staining
		87+00	LT 35	None	2	<1	Coarse Sand	No odor, No staining
		86+90	LT 35	None	3	<1	Coarse Sand	No odor, No staining
		86+95	LT 1	None	1	<1	Clay	No odor, no staining
4/9/2020	Storm	86+95	LT 4	None	4	<1	Clay	No odor, No staining
		87+23	LT 30	None	1.5	<1	Clay, Fine Sand	No odor, No staining
		114+10	LT 30	Petroleum	2	<1	Clay, Fine Sand	No odor, black staining
		113+85	LT 10	Petroleum	2.5	<1	Silt, Coarse Sand, Coarse Gravel	No odor, black staining
		113+75	LT 15	Petroleum	2.5	<1	Coarse Sand, Silt, Coarse Gravel	No odor, No staining
		105+75	RT 10	Petroleum	2.5	<1	Clay, Fine Sand, Fine Gravel, Coarse Gravel	No odor, No staining
4/15/2020	Grading/Excavating	105+65	RT 10	Petroleum	2.5	<1	Clay, Fine Sand, Fine Gravel, Coarse Gravel	No odor, No staining
		105+50	RT 10	Petroleum	2.5	<1	Clay, Fine Sand, Fine Gravel, Coarse Gravel	No odor, No staining
		105+25	RT 10	Petroleum	2.5	<1	Clay, Fine Sand, Fine Gravel, Coarse Gravel	No odor, No staining
		105+05	RT 10	Petroleum	2.5	<1	Clay, Fine Sand, Fine Gravel, Coarse Gravel	No odor, No staining
		104+98	RT 10	None	2.5	<1	Clay, Fine Sand, Fine Gravel, Coarse Gravel	No odor, No staining
		122+70	LT Reference Line	Other VOCs	1	<1	Coarse Sand, Cobbles	No odor, black staining
4/24/2020	Grading/Excavating	122+50	LT Reference Line	Other VOCs	3	<1	Clay, Silt, Fine Sand	Slight odor, black staining
		122+50	LT Reference Line	Other VOCs	4	<1	Clay, Silt, Coarse Sand, Cobbles	No odor, black staining
		122+45	LT Reference Line	Other VOCs	4	<1	Clay, Silt	No odor, black staining
		113+50	LT Reference Line	Petroleum	4	<1	Fine Sand, Coarse Sand, Cobbles	No odor, No staining
		113+50	LT 20	Petroleum	4	<1	Clay, Fine Sand, Coarse Sand	No odor, black staining

Table 1: Summary of Soil Field-Screening Results
Durand Ave. (STH 11), Racine, Racine County, Wisconsin
WisDOT Project ID #2260-07-70

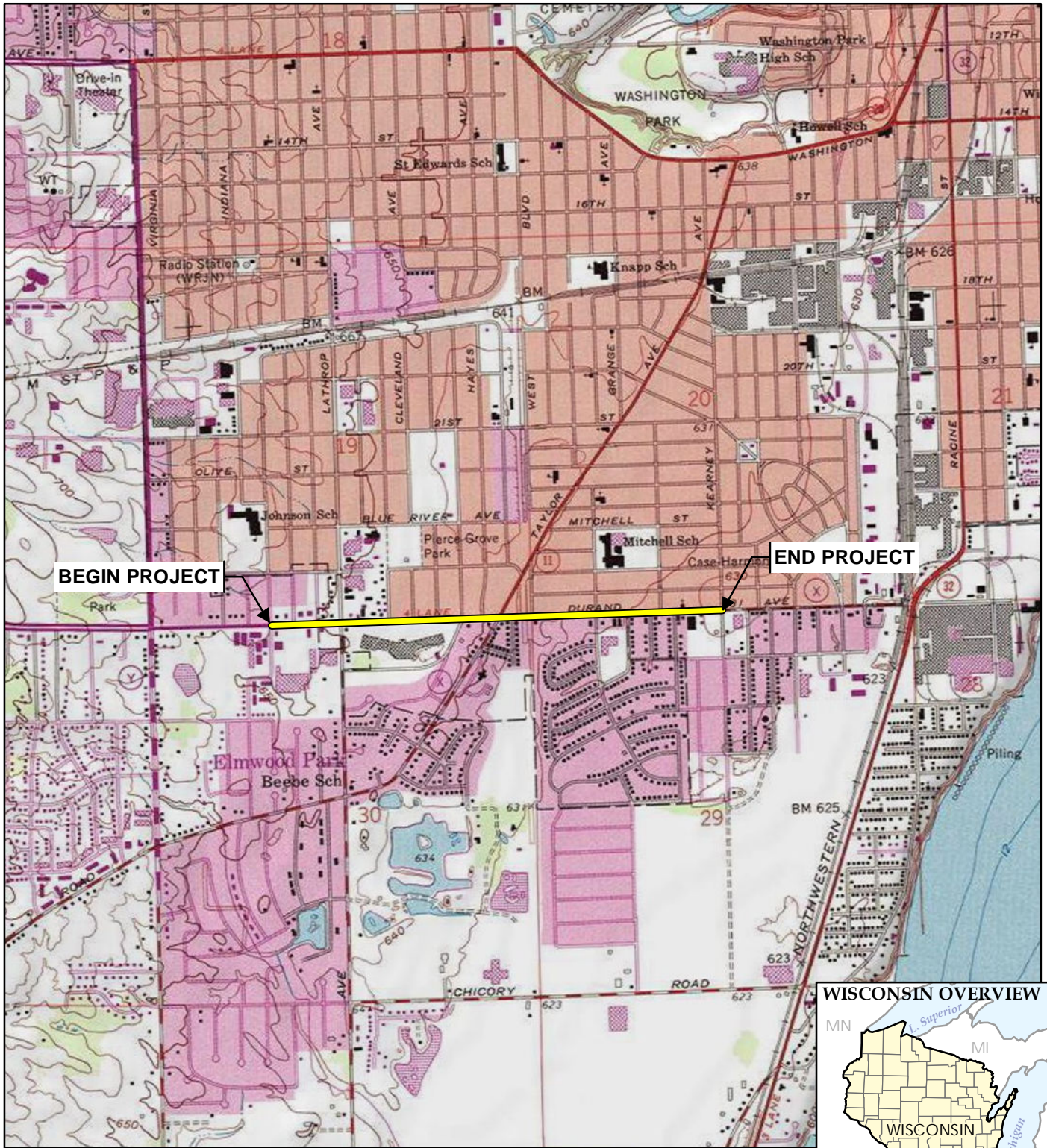
DATE	ACTIVITY	STATION	LEFT / RIGHT OF REFERENCE LINE	CONTAMINATION TYPE	DEPTH (ft bgs)	PID (ppm)	SOIL TYPE	SOIL DESCRIPTION
4/27/2020	Grading/Excavating	86+50	LT 20	Petroleum	3	6.3	Coarse Sand, Fine Gravel	Petroleum, no staining
		86+30	LT, Project Limit	Petroleum	4	1.2	Fine Sand, Coarse Sand, Fine Gravel	No odor, No staining
		86+20	LT Reference Line	Petroleum	2	<1	Fine Sand, Coarse Sand, Fine Gravel	No odor, No staining
		86+20	LT 20	Petroleum	3	<1	Fine Sand, Coarse Sand, Fine Gravel	No odor, No staining
		86+20	LT Project Limit	Petroleum	4	25.7	Silt, Fine Sand, Coarse Sand	Strong petroleum odors, black staining
		86+15	LT 15	Petroleum	4	<1	Clay, Silt, Coarse Sand	Slight Petroleum odor, black staining
		86+10	LT Reference Line	Petroleum	3	<1	Fine Sand, Coarse Sand, Fine Gravel	No odor, No staining
		86+00	LT 15	Petroleum	4.5	<1	Clay, Silt, Fine Sand	No odor, black staining
		86+00	LT, Project Limit	Petroleum	3	<1	Fine Sand, Coarse Sand, Fine Gravel	No odor, No staining
		85+80	LT 15	Petroleum	3	<1	Fine Sand, Coarse Sand	No odor, No staining
		85+60	LT 15	Petroleum	3	<1	Fine Sand, Coarse Sand, Fine Gravel	No odor, No staining
		85+40	LT Reference Line	Petroleum	4	<1	Silt, Fine Sand, Coarse Sand, Coarse Gravel	No odor, black staining
		85+40	LT Reference Line	Petroleum	4	<1	Fine Sand, Coarse Sand, Fine Gravel, Cobbles	No odor, black staining
		85+40	LT, Project Limit	Petroleum	4	<1	Silt, Fine Sand, Coarse Sand	No odor, No staining
6/8/2020	Electrical/Monotubes	87+00	LT, Project Limit	Petroleum	2	4.5	Clay	Petroleum, black staining
		87+00	LT, Project Limit	Petroleum	6	8.2	Clay	Petroleum, black staining
		87+00	LT, Project Limit	Petroleum	8	1.2	Clay	Petroleum, black staining
		87+00	LT, Project Limit	Petroleum	14	1.1	Clay	Petroleum, black staining
		87+15	LT, Project Limit	Petroleum	4	3.8	Clay	Petroleum, black staining
		87+15	LT, Project Limit	Petroleum	5	2.4	Clay	Petroleum, black staining
6/10/2020	Electrical/Monotubes	122+60	Project Limits Left	Other VOCs	4	<1	Clay, Silt, Fine Sand, Coarse Sand	No odor, No staining
		122+60	Project Limits Left	Other VOCs	6	<1	Clay, Silt, Fine Sand, Coarse Sand	No odor, No staining
		122+60	Project Limits Left	Other VOCs	13	<1	Clay, Silt, Fine Sand	No odor, No staining
		122+75	Project Limits Left	Other VOCs	3	<1	Clay, Silt, Fine Sand, Fine Gravel	No odor, black staining
7/30/2020	Grading/Excavating	105+00	RT 15	Metals	3	<1	Silt, Fine Sand, Coarse Sand, Cobbles	No odor, No staining
		105+20	RT 20	Metals	3	<1	Clay, Silt, Fine Sand	Slight odor, Black staining
		105+50	RT 25	Metals	2.5	<1	Clay, Silt	No odor, No staining
		105+65	RT 25	Metals	3	<1	Silt, Fine Sand, Coarse Sand, Fine Gravel	No odor, No staining
		105+65	RT 5	Metals	3.5	<1	Fine Sand, Coarse Sand, Fine Gravel, Cobbles	No odor, No staining
		105+80	RT 20	Metals	3	<1	Fine Sand, Coarse Sand, Fine Gravel	No odor, No staining
8/4/2020	Grading/Excavating	105+80	RT 5	Metals	4	<1	Silt, Fine Sand, Coarse Sand	No odor, No staining
		123+00	RT 5	Petroleum and other VOCs	2	<1	Silt, Coarse Sand, Fine Gravel	Strong unknown chemical odor, Black staining
		122+85	RT 15	Petroleum and other VOCs	3	<1	Silt, Fine Sand, Fine Gravel, Cobbles	No odor, No staining
		122+75	RT 15	Petroleum and other VOCs	3	<1	Clay, Silt, Coarse Sand, Fine Gravel	Slight unknown chemical odor, Black staining
		122+60	RT 15	Petroleum and other VOCs	3	<1	Clay Silt, Fine Sand, Coarse Gravel	No odor, No staining
8/18/2020	Storm	122+50	RT 15	Petroleum and other VOCs	3	<1	Coarse Sand, Fine Gravel, Coarse Gravel, Cobbles	No odor, No staining
		122+50	RT 20	Other VOCs	4	<1	Clay, Silt, Fine Sand	No odor, No staining
9/24/2020	Grading/Excavating	122+75	LT 15	Other VOCs	3	<1	Clay, Silt	No odor, Gray staining
		122+75	LT 20	Other VOCs	3	<1	Clay, Silt, Fine Sand	No odor, No staining
		122+85	LT 15	Other VOCs	3	<1	Clay, Silt, Fine Sand	No odor, No staining
		123+00	LT 10	Other VOCs	3	<1	Fine Sand, Coarse Sand, Coarse Gravel, Cobbles	No odor, No staining
		13+50 DX	Center	Other VOCs	3.5	<1	Clay, Silt, Fine Sand	No odor, No staining
		13+50 DX	LT 20	Other VOCs	3.5	<1	Clay, Silt, Fine Sand	No odor, No staining
		13+25 DX	LT 20	Other VOCs	2	<1	Silt, Fine Sand	No odor, No staining
		13+25 DX	LT 10	Other VOCs	2.5	<1	Clay, Silt, Fine Sand	No odor, No staining
		13+00 DX	LT 10	Other VOCs	2.5	<1	Clay, Silt, Coarse Sand	No odor, Black staining
		13+00 DX	LT 25	Other VOCs	2.5	8.6	Clay, Silt, Coarse Sand, Coarse Gravel	Strong petroleum odor, Black staining
		12+50 DX	LT 10	Other VOCs	2.5	<1	Silt, Fine Sand, Coarse Sand	No odor, Black staining
		12+50 DX	LT 25	Other VOCs	2.5	<1	Clay, Silt, Coarse Sand, Fine Gravel	No odor, No staining
		12+75 DX	LT 20	Other VOCs	2.5	<1	Clay, Silt, Coarse Sand, Fine Gravel	No odor, No staining

Notes:

1. bgs = below ground surface
2. PID = photoionization detector
3. ppm = parts per million

Created by: E. Maxwell 5/1/2020

Checked by: E. Grzeszczak 7/16/2020, A. Enright 12/29/2020



BASE MAP FROM USGS 7.5 MINUTE TOPOGRAPHIC QUADRANGLE SERIES.



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

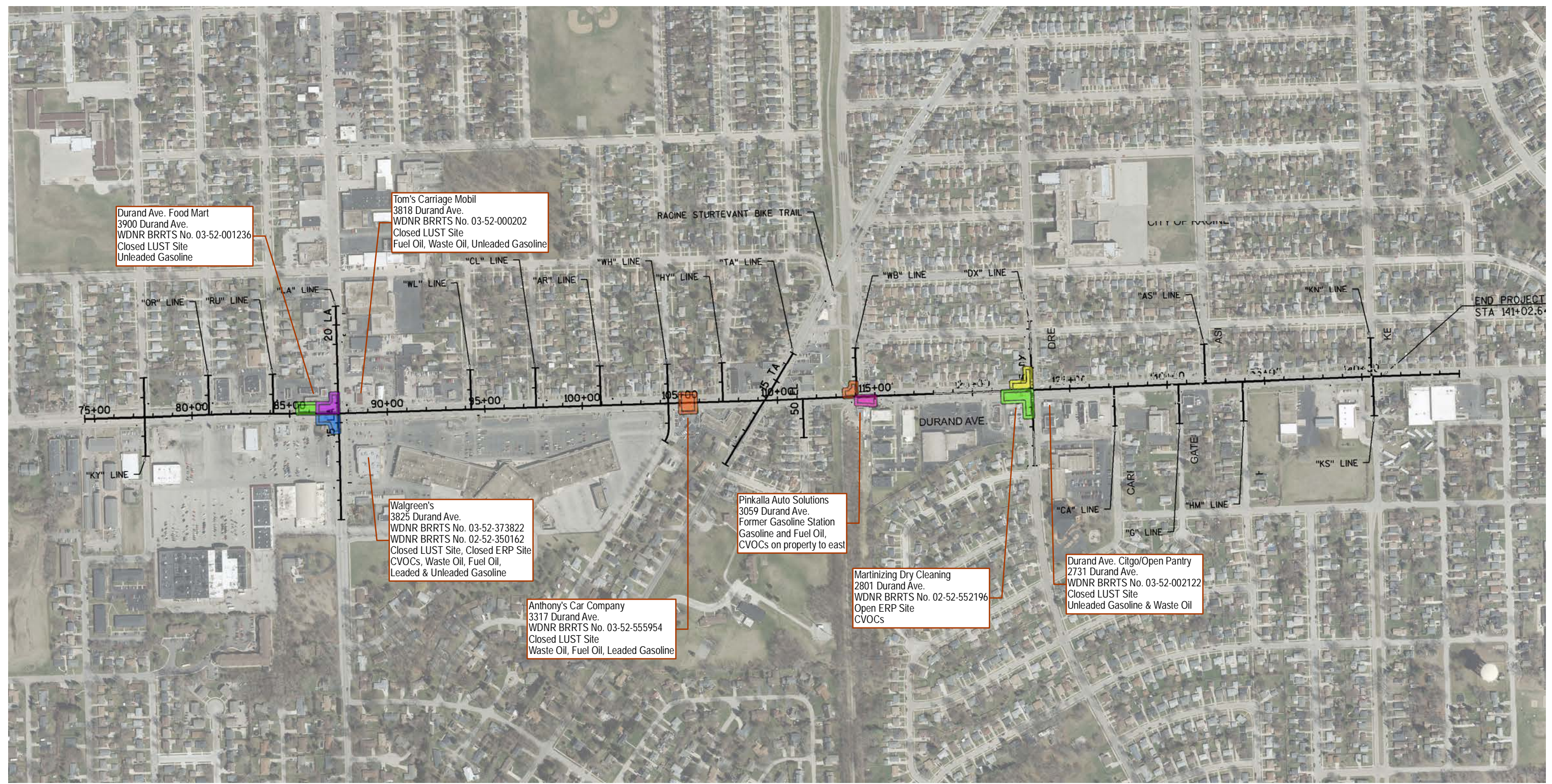
TRC - GIS

PROJECT: **WISDOT ID #2260-07-70**
DURAND AVE. (STH 11), KENTUCKY ST. TO KEARNEY AVE.
RACINE, RACINE CO., WISCONSIN

TITLE: **SITE LOCATION MAP**

DRAWN BY:	A. ADAIR
CHECKED BY:	B. BERGMANN
APPROVED BY:	D. HAAK
DATE:	DECEMBER 2020
PROJ. NO.:	358418
FILE:	358418_001_SLM.mxd

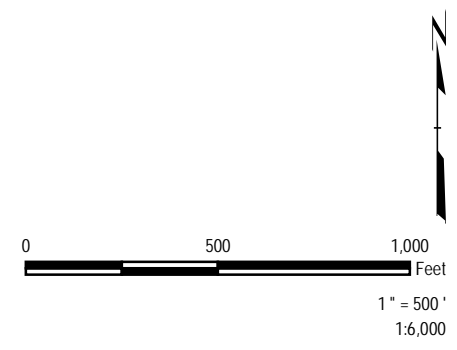
FIGURE 1



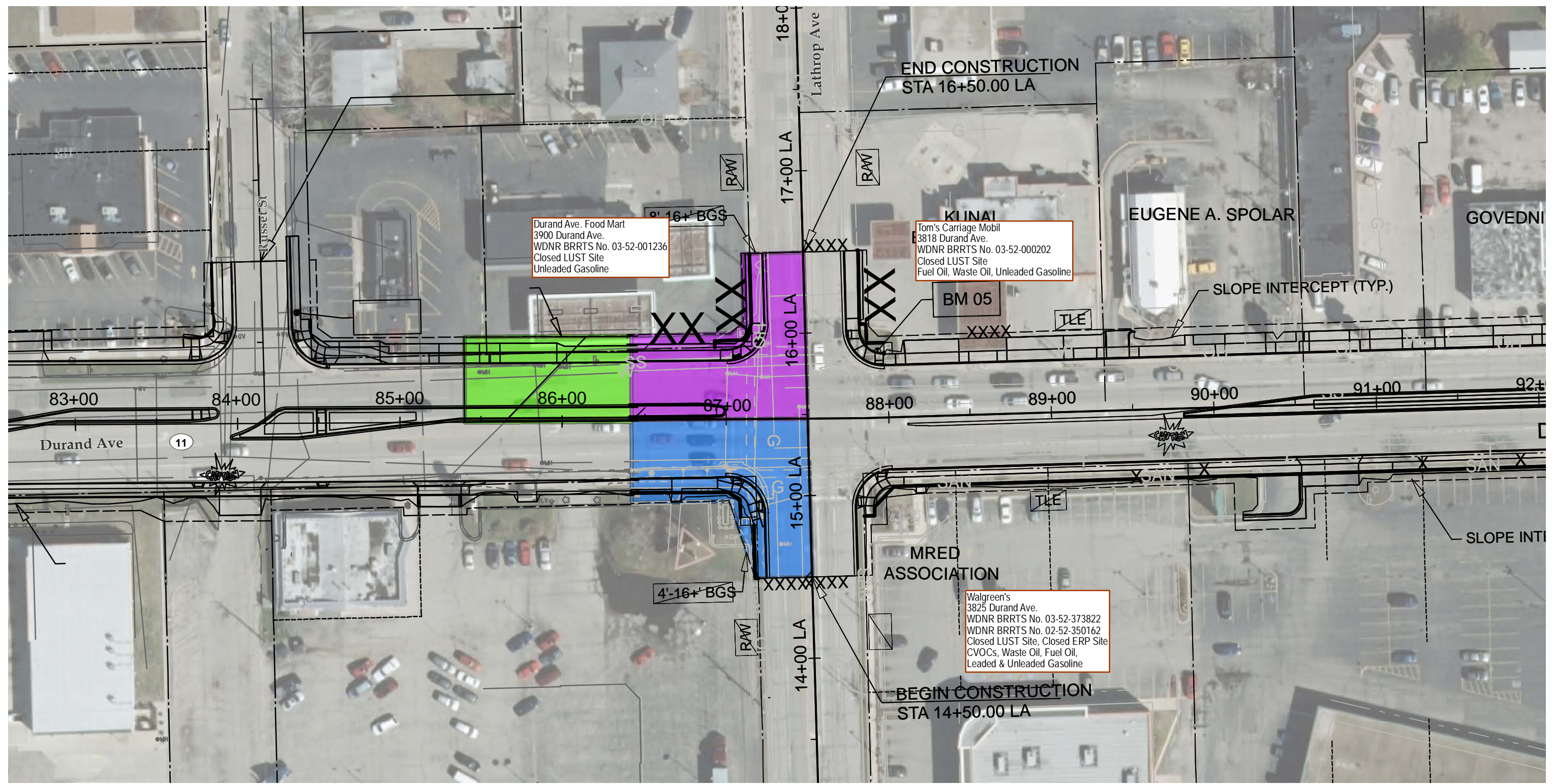
LEGEND

	CONTAMINATED SOIL 1'-16+' BGS
	CONTAMINATED SOIL 1'-6+' BGS
	CONTAMINATED SOIL 1'-8+' BGS
	CONTAMINATED SOIL 4'-16+' BGS
	CONTAMINATED SOIL 4'-8+' BGS
	CONTAMINATED SOIL 8'-16+' BGS

- NOTES**
1. BASE MAP IMAGERY FROM RACINE COUNTY LAND INFORMATION OFFICE, 2015.
 2. MAP PROJECTION AND GRID COORDINATES ARE NAD83 STATE PLANE WISCONSIN-SOUTH (US SURVEY FEET).
 3. CONSTRUCTION PLANS PROVIDED BY WisDOT, LOCATIONS ARE APPROXIMATE.



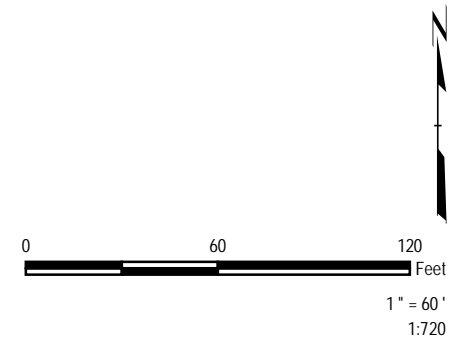
PROJECT: WISDOT ID #2260-07-70 DURAND AVE. (STH 11), KENTUCKY ST. TO KEARNEY AVE. RACINE, RACINE CO., WISCONSIN	
TITLE: PROJECT CORRIDOR	
DRAWN BY: A. ADAIR	PROJ NO.: 358418
CHECKED BY: B. BERGMANN	FIGURE 2
APPROVED BY: D. HAAK	
DATE: DECEMBER 2020	
150 North Patrick Blvd., Suite 180 Brookfield, WI 53045 Phone: 262.879.1212 www.trcsolutions.com	
FILE NO:	358418_002_PC.mxd



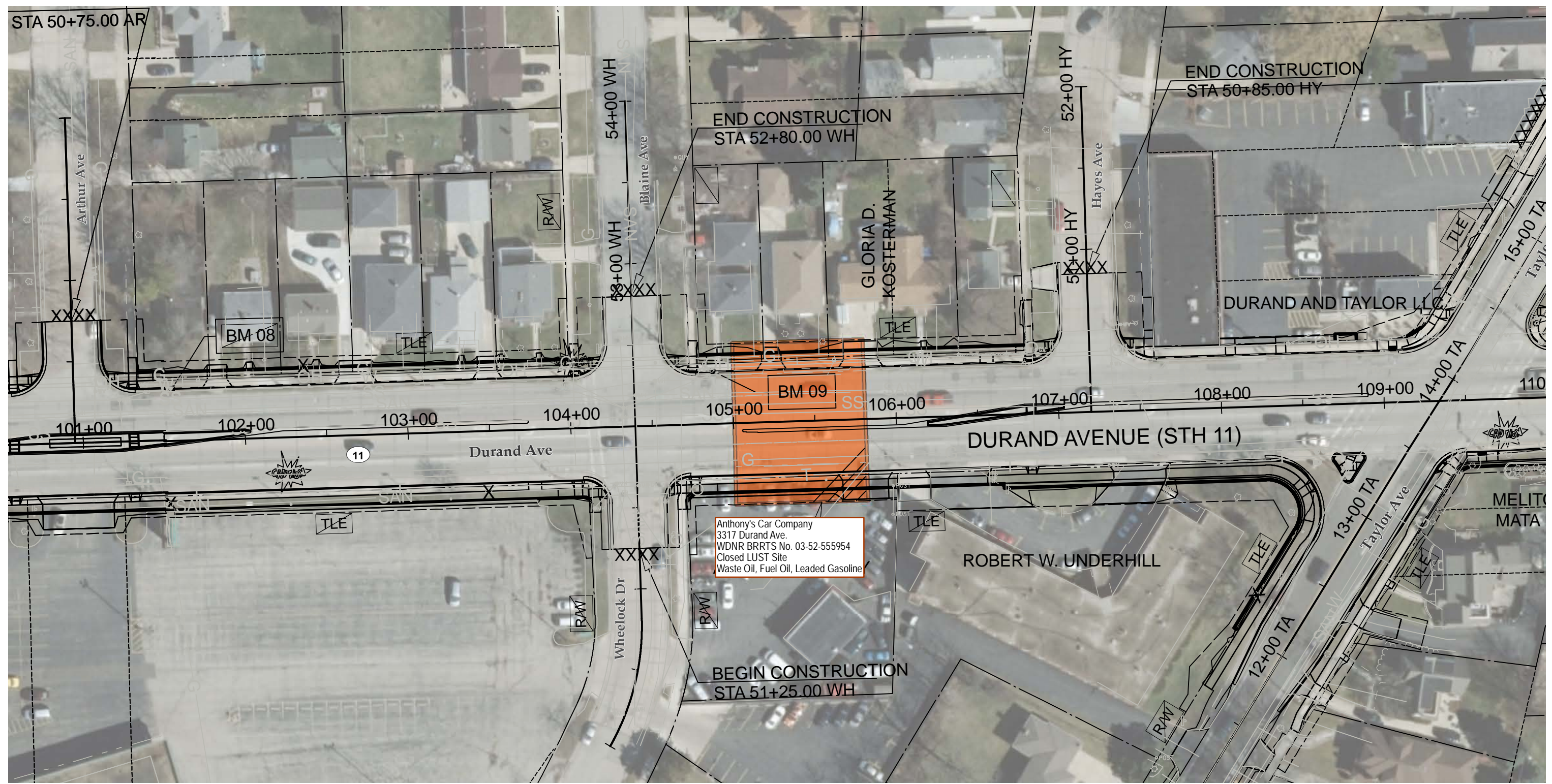
LEGEND

	CONTAMINATED SOIL 1'-8+' BGS
	CONTAMINATED SOIL 4'-16+' BGS
	CONTAMINATED SOIL 8'-16+' BGS

- NOTES**
1. BASE MAP IMAGERY FROM RACINE COUNTY LAND INFORMATION OFFICE, 2015.
 2. MAP PROJECTION AND GRID COORDINATES ARE NAD83 STATE PLANE WISCONSIN-SOUTH (US SURVEY FEET).
 3. CONSTRUCTION PLANS PROVIDED BY WisDOT, LOCATIONS ARE APPROXIMATE.



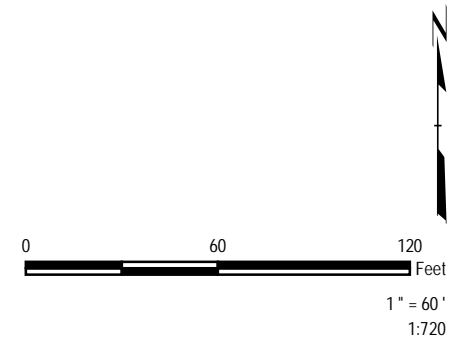
PROJECT: WISDOT ID #2260-07-70	
DURAND AVE. (STH 11), KENTUCKY ST. TO KEARNEY AVE. RACINE, RACINE CO., WISCONSIN	
TITLE: CONTAMINATED SOIL LOCATION STATION 83+00 TO 92+00	
DRAWN BY: A. ADAIR	PROJ NO.: 358418
CHECKED BY: B. BERGMANN	FIGURE 3
APPROVED BY: D. HAAK	
DATE: DECEMBER 2020	
150 North Patrick Blvd., Suite 180 Brookfield, WI 53045 Phone: 262.879.1212 www.trcsolutions.com	
FILE NO:	358418_003b_CSL.mxd



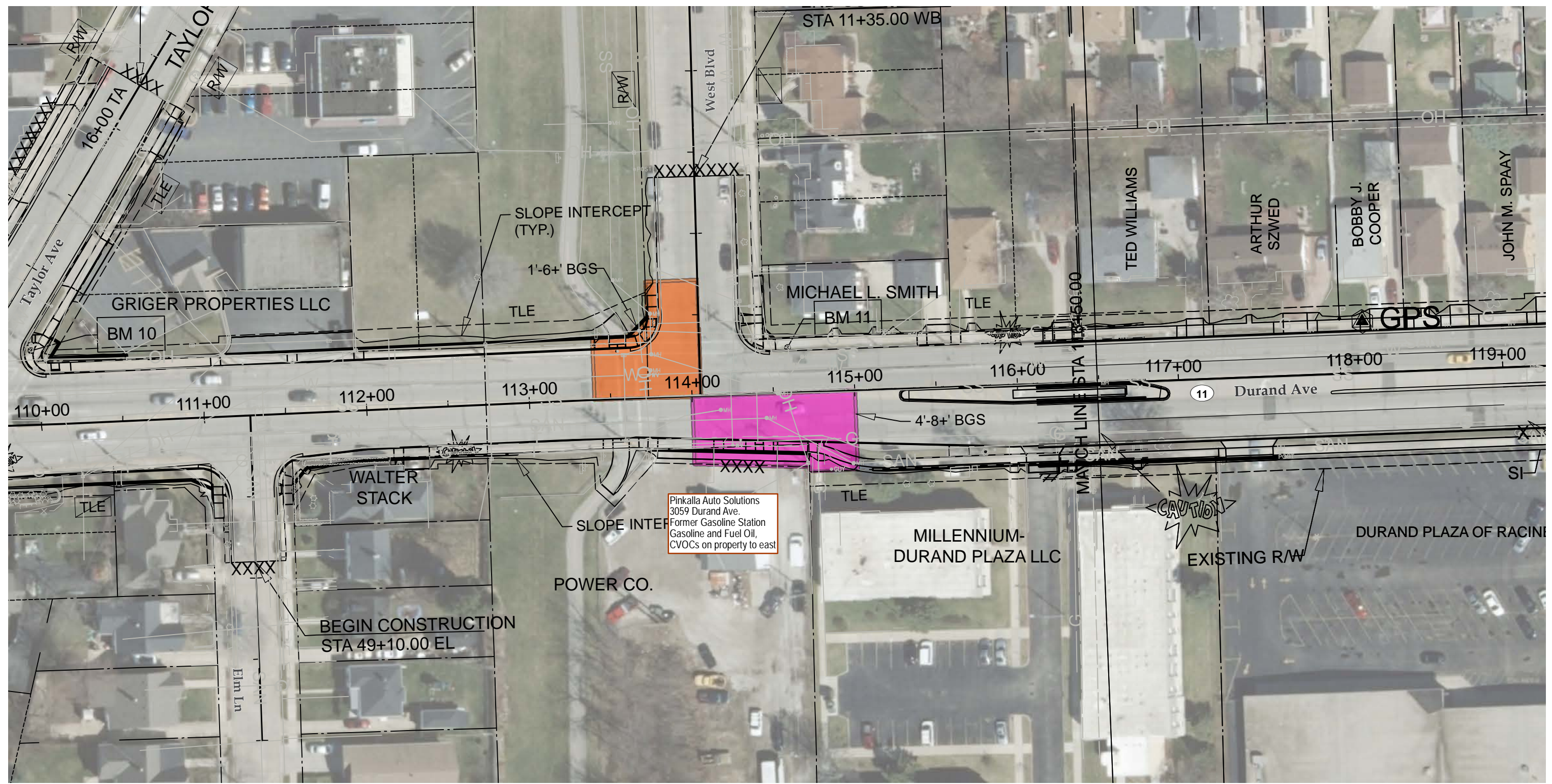
LEGEND

CONTAMINATED SOIL 1'-6"+ BGS

- NOTES**
1. BASE MAP IMAGERY FROM RACINE COUNTY LAND INFORMATION OFFICE, 2015.
 2. MAP PROJECTION AND GRID COORDINATES ARE NAD83 STATE PLANE WISCONSIN-SOUTH (US SURVEY FEET).
 3. CONSTRUCTION PLANS PROVIDED BY WisDOT, LOCATIONS ARE APPROXIMATE.



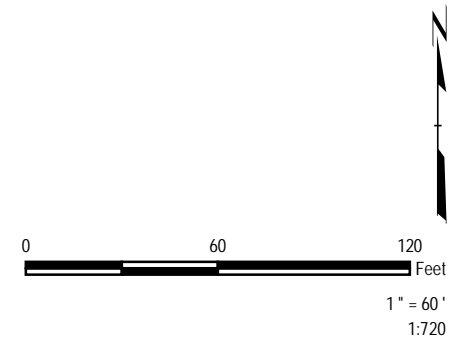
PROJECT:		WISDOT ID #2260-07-70	
DURAND AVE. (STH 11), KENTUCKY ST. TO KEARNEY AVE.		RACINE, RACINE CO., WISCONSIN	
TITLE:			
CONTAMINATED SOIL LOCATION STATION 101+00 TO 109+00			
DRAWN BY:	A. ADAIR	PROJ NO.:	358418
CHECKED BY:	B. BERGMANN	FIGURE 4	
APPROVED BY:	D. HAAK		
DATE:	DECEMBER 2020		
		150 North Patrick Blvd., Suite 180 Brookfield, WI 53045 Phone: 262.879.1212 www.trcsolutions.com	
FILE NO.:		358418_003b_CSL.mxd	



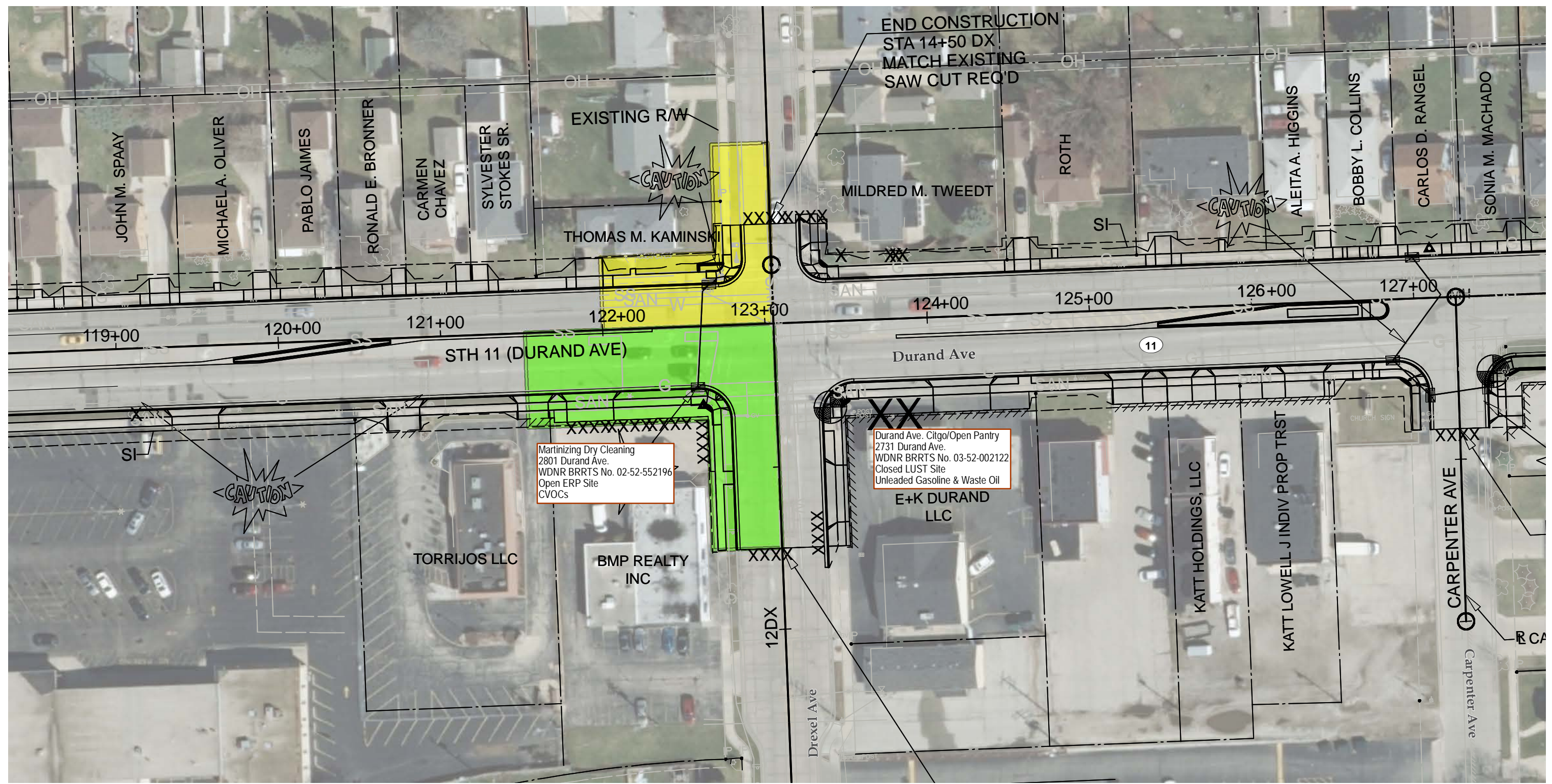
LEGEND

	CONTAMINATED SOIL 1'-6'+ BGS
	CONTAMINATED SOIL 4'-8'+ BGS

- NOTES**
1. BASE MAP IMAGERY FROM RACINE COUNTY LAND INFORMATION OFFICE, 2015.
 2. MAP PROJECTION AND GRID COORDINATES ARE NAD83 STATE PLANE WISCONSIN-SOUTH (US SURVEY FEET).
 3. CONSTRUCTION PLANS PROVIDED BY WisDOT, LOCATIONS ARE APPROXIMATE.



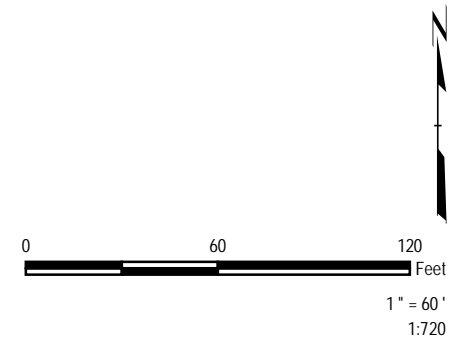
PROJECT:		WISDOT ID #2260-07-70	
DURAND AVE. (STH 11), KENTUCKY ST. TO KEARNEY AVE.		RACINE, RACINE CO., WISCONSIN	
TITLE:			
CONTAMINATED SOIL LOCATION STATION 110+00 TO 118+50			
DRAWN BY:	A. ADAIR	PROJ NO.:	358418
CHECKED BY:	B. BERGMANN	FIGURE 5	
APPROVED BY:	D. HAAK		
DATE:	DECEMBER 2020		
		150 North Patrick Blvd., Suite 180 Brookfield, WI 53045 Phone: 262.879.1212 www.trcsolutions.com	
FILE NO.:	358418_003b_CSL.mxd		



LEGEND

	CONTAMINATED SOIL 1'-16'+ BGS
	CONTAMINATED SOIL 1'-8'+ BGS

- NOTES**
1. BASE MAP IMAGERY FROM RACINE COUNTY LAND INFORMATION OFFICE, 2015.
 2. MAP PROJECTION AND GRID COORDINATES ARE NAD83 STATE PLANE WISCONSIN-SOUTH (US SURVEY FEET).
 3. CONSTRUCTION PLANS PROVIDED BY WisDOT, LOCATIONS ARE APPROXIMATE.



PROJECT:		WISDOT ID #2260-07-70	
DURAND AVE. (STH 11), KENTUCKY ST. TO KEARNEY AVE.		RACINE, RACINE CO., WISCONSIN	
TITLE:			
CONTAMINATED SOIL LOCATION STATION 119+00 TO 127+00			
DRAWN BY:	A. ADAIR	PROJ NO.:	358418
CHECKED BY:	B. BERGMANN	FIGURE 6	
APPROVED BY:	D. HAAK		
DATE:	DECEMBER 2020		
		150 North Patrick Blvd., Suite 180 Brookfield, WI 53045 Phone: 262.879.1212 www.trcsolutions.com	
FILE NO.:	358418_003b_CSL.mxd		

Appendix A: Special Provisions, Plans, & WDNR Concurrence Letter

HIGHWAY WORK PROPOSAL

Wisconsin Department of Transportation
06/2017 s.66.0901(7) Wis. Stats

Proposal Number: **004**

<u>COUNTY</u>	<u>STATE PROJECT</u>	<u>FEDERAL</u>	<u>PROJECT DESCRIPTION</u>	<u>HIGHWAY</u>
Racine	2260-07-70	WISC 2019626	Durand Ave, City Of Racine; Kentucky St To Kearney Ave	STH 011

This proposal, submitted by the undersigned bidder to the Wisconsin Department of Transportation, is in accordance with the advertised request for proposals. The bidder is to furnish and deliver all materials, and to perform all work for the improvement of the designated project in the time specified, in accordance with the appended Proposal Requirements and Conditions.

Proposal Guaranty Required: \$100,000.00 Payable to: Wisconsin Department of Transportation	Attach Proposal Guaranty on back of this PAGE.
Bid Submittal Date: September 10, 2019 Time (Local Time): 9:00 am	Firm Name, Address, City, State, Zip Code <div style="text-align: center;">SAMPLE NOT FOR BIDDING PURPOSES</div> This contract is exempt from federal oversight.
Contract Completion Time November 21, 2020	
Assigned Disadvantaged Business Enterprise Goal 18%	

This certifies that the undersigned bidder, duly sworn, is an authorized representative of the firm named above; that the bidder has examined and carefully prepared the bid from the plans, Highway Work Proposal, and all addenda, and has checked the same in detail before submitting this proposal or bid; and that the bidder or agents, officer, or employees have not, either directly or indirectly, entered into any agreement, participated in any collusion, or otherwise taken any action in restraint of free competitive bidding in connection with this proposal bid.

Do not sign, notarize, or submit this Highway Work Proposal when submitting an electronic bid on the Internet.

Subscribed and sworn to before me this date _____

(Signature, Notary Public, State of Wisconsin)

(Bidder Signature)

(Print or Type Name, Notary Public, State Wisconsin)

(Print or Type Bidder Name)

(Date Commission Expires)

(Bidder Title)

Notary Seal

Type of Work:	For Department Use Only
Grading, Base, Concrete Pavemetrn, Asphalt Pavement, Stom Sewer, Curb and Gutter, Sidewalk, Concrete Driveway, Fence, Plantings, Street Lighting, Traffic Signals, Sanitary Sewer, Modular Block Wall, Signs, Pavement Markings	
Notice of Award Dated	Date Guaranty Returned

Special Provisions

Table of Contents

Article	Description	Page #
1.	General.....	4
2.	Scope of Work.....	4
3.	Prosecution and Progress.....	4
4.	Traffic.	6
5.	Municipality Acceptance of Sanitary Sewer and Water Main Construction.	8
6.	Holiday Work Restrictions.	8
7.	Utilities.....	8
8.	Information to Bidders, WPDES General Construction Storm Water Discharge Permit.	14
9.	Information to Bidders, U.S. Army Corps of Engineers Section 404 Permit.....	15
10.	Erosion Control.	15
11.	Notice to Contractor – RYDE (Racine Transit) Coordination.....	15
12.	Notice to Contractor - Sign Removal.	16
13.	Health and Safety Requirements for Workers Remediating Petroleum Contamination.	16
14.	Coordination with Businesses and Residents.....	16
15.	Public Convenience and Safety.	17
16.	Removing Street Light Poles, Item 204.9060.S.01.....	17
17.	Removing Sanitary Sewer Manholes, Item 204.9060.S.02.	17
18.	Removing Sanitary Sewer 10-Inch, Item 204.9090.S.01.....	18
19.	Excavation, Hauling, and Disposal of Petroleum Contaminated Soil, Item 205.0501.S.....	18
20.	Maintaining Drainage.	21
21.	QMP Base Aggregate Dense 1 1/4-Inch Compaction, Item 371.1000.S.....	21
22.	Stamping Colored Concrete, Item 405.1000.....	27
23.	Concrete Pavement Joint Layout, Item 415.5110.S.	28
24.	Adjusting Manhole Covers.	29
25.	Furnishing and Planting Plant Materials.	29
26.	Landscape Planting Surveillance and Care Cycles.	32
27.	Field Facilities	32
28.	Temporary Pedestrian Surface Asphalt, Item 644.1410.S.	33
29.	Temporary Curb Ramp, Item 644.1601.S.....	33
30.	Temporary Pedestrian Safety Fence, Item 644.1616.S.....	34
31.	Geotextile Type SR.....	35
32.	General Requirements for Electrical Work.....	35
33.	Electrical Service Meter Breaker Pedestal Lathrop Avenue, Item 656.0200.01; Electrical Service Meter Breaker Pedestal Taylor Avenue Item 656.0200.02; Electrical Service Meter Breaker Pedestal Drexel Avenue, Item 656.0200.03; Electrical Service Meter Breaker Pedestal West Lawn Avenue, Item 656.0200.04; Electrical Service Meter Breaker Pedestal Ashland Avenue, Item 656.0200.05.	35
34.	Temporary Traffic Signals for Intersections Lathrop Avenue, Item 661.0200.01; Temporary Traffic Signals for Intersections Drexel Avenue, Item 661.0200.02.....	36

35.	Section 671 Intelligent Transportation Systems–Conduit	36
36.	Fiber Optic Splice Enclosure.....	37
37.	Install Fiber Optic Cable Outdoor Plant 48-CT, Item 678.0096.	37
38.	Performance Engineered Mixture (PEM) Testing.	37
39.	Optimized Aggregate Gradation Incentive, Item 715.0710.....	38
40.	Flexural Strength for Concrete Mix Design.	40
41.	Colored Concrete Crosswalk, Item SPV.0035.01.	41
42.	Topsoil Special, Item SPV.0035.02.	42
43.	Inlet Covers Type DW, Item SPV.0060.01.....	42
44.	Section Corner Monuments Special, Item SPV.0060.02.	43
45.	Utility Line Opening (ULO), Item SPV.0060.03.....	43
46.	6-Count Fiber Optic Connector 200-FT, Item SPV.0060.04.	44
47.	Removing Lighting Control Cabinets, Item SPV.0060.05.	45
48.	Storm Sewer Tap, Item SPV.0060.06.....	45
49.	Reconstructing Sanitary Sewer Manholes, Item SPV.0060.07.....	46
50.	Sanitary Sewer Manhole Covers Type J, Item SPV.0060.08.	47
51.	Moving Existing Bus Stop Shelter, Item SPV.0060.09.	47
52.	Traffic Signal Controller and Cabinet, Item SPV.0060.10.....	48
53.	Luminaires Utility LED 139 Watts, Item SPV.0060.11.	56
54.	Luminaires Utility LED 66 Watts, Item SPV.0060.12.	56
55.	Install Existing Unit Duct Into New Pull Box, Item SPV.0060.13.	57
56.	Constructing Sanitary Sewer Manholes 4-FT, Item SPV.0060.14.....	57
57.	Removing Existing Bus Stop Shelter, SPV.0060.15.....	60
58.	Concrete Raised Median 24-Inch, SPV.0090.01.	60
59.	Abandoning Sanitary Sewer 18-Inch, Item SPV.0090.02.....	62
60.	Sanitary Sewer PVC SDR 35 8-Inch, Item SPV.0090.03; Sanitary Sewer PVC PS-46 18-Inch, Item SPV.0090.04.	63
61.	Marking Contrast Epoxy 4-inch, Item SPV.0090.05.	65
62.	Marking Contrast Epoxy 8-inch, Item SPV.0090.06.	66
63.	Remove Traffic Signals Lathrop Avenue, Item SPV.0105.01; Remove Traffic Signals Taylor Avenue, Item SPV.0105.02; Remove Traffic Signals Drexel Avenue, Item SPV.0105.03.	66
64.	Transporting Traffic Signal and Intersection Lighting Materials Lathrop Avenue, Item SPV.0105.04; Transporting Traffic Signal and Intersection Lighting Materials Taylor Avenue, Item SPV.0105.05; Transporting Traffic Signal and Intersection Lighting Materials Drexel Avenue, Item SPV.0105.06.	67
65.	Video Detection System Lathrop Avenue, Item SPV.0105.07; Video Detection System Taylor Avenue, Item SPV.0105.08; Video Detection System Drexel Avenue, Item SPV.0105.09.....	68
66.	Microwave Based Traffic Sensor Lathrop Avenue, Item SPV.0105.10; Microwave Based Traffic Sensor Taylor Avenue, Item SPV.0105.11; Microwave Based Traffic Sensor Drexel Avenue, Item SPV.0105.12.	71
67.	Remove Loop Detector Wire and Lead-in Cable Lathrop Avenue, Item SPV.0105.13; Remove Loop Detector Wire and Lead-in Cable Taylor Avenue, Item SPV.0105.14; Remove Loop Detector Wire and Lead-in Cable Drexel Avenue, Item SPV.0105.15.	74

68.	Audible Pedestrian Signal System Lathrop Avenue, Item SPV.0105.16; Audible Pedestrian Signal System Taylor Avenue, Item SPV.0105.17; Audible Pedestrian Signal System Drexel Avenue, Item SPV.0105.18.	74
69.	Removing Business Sign 4125 Durand Avenue, Item SPV.0105.19; Removing Business Sign 4006 Durand Avenue, Item SPV.0105.20; Removing Business Sign 3317 Durand Avenue, Item SPV.0105.21.	78
70.	Water for Seeded Areas, Item SPV.0120.01.	79
71.	Wall Modular Block Gravity Landscape Wall A, Item SPV.0165.01; Wall Modular Block Gravity Landscape Wall B, Item SPV.0165.02.	79
72.	Concrete Sidewalk Thickened Edge, Item SPV.0165.03.	84
73.	Remove and Replace Brick Pavers, Item SPV.0165.04.	84
74.	Shredded Hardwood Bark Mulch, Item SPV.0180.01.	85
75.	Management of Solid Waste, Item SPV.0195.01.	86

18. Removing Sanitary Sewer 10-Inch, Item 204.9090.S.01.

A Description

This special provision describes removing 10-Inch sanitary sewer according to the pertinent provisions of standard spec 204 and as hereinafter provided.

B (Vacant)

C (Vacant)

D Measurement

The department will measure Removing Sanitary Sewer 10-Inch in length by the linear foot, acceptably completed.

E Payment

Add the following to standard spec 204.5:

ITEM NUMBER	DESCRIPTION	UNIT
204.9090.S.01	Removing Sanitary Sewer 10-Inch	LF

stp-204-025 (20150630)

19. Excavation, Hauling, and Disposal of Petroleum Contaminated Soil, Item 205.0501.S.

A Description

A.1 General

This special provision describes excavating, loading, hauling, and disposing of petroleum contaminated soil at a DNR approved bioremediation facility. The closest DNR approved bioremediation facilities are:

Republic Services Kestrel Hawk Landfill
1989 Oakes Rd.
Racine, WI 53406
(262) 884-7081

Waste Management Pheasant Run RDF Landfill
10712 South 124th Street
Bristol, WI 53104
(800) 963-4776

Advanced Disposal Emerald Park Landfill
W124S10629 South 124th Street
Muskego, WI53150
(414) 529-1360

Perform this work according to standard spec 205 and with pertinent parts of Chapters NR 700-754 of the Wisconsin Administrative Code, as supplemented herein. Per NR 718.07, a solid waste collection and transportation service-operating license is required under NR 502.06 for each vehicle used to transport contaminated soil.

A.2 Notice to the Contractor – Contaminated Soil Location(s)

The department completed testing for soil and groundwater contamination for locations within this project where excavation is required. Testing indicated that petroleum-contaminated soil is present at the following location(s) as shown on the plans:

1. Station 85+40 to 86+50 from reference line to project limits left, from approximately 1 to 8+ feet below grade. Soil excavated from this area will require off-site bioremediation. The estimated volume of contaminated soil to be excavated at this location is 283 cubic yards (approximately 481 tons using a conversion factor of 1.7 tons per cubic yard).

2. Station 86+50 to 87+50 from reference line to project limits left, from approximately 8 to 16+ feet below grade. Soil excavated from this area will require off-site bioremediation. The estimated volume of contaminated soil to be excavated at this location is 0 cubic yards (approximately 0 tons using a conversion factor of 1.7 tons per cubic yard).
3. Station 86+50 to 87+50 from reference line to project limits right, from approximately 4 to 16+ feet below grade. Soil excavated from this area will require off-site bioremediation. The estimated volume of contaminated soil to be excavated at this location is 5 cubic yards (approximately 9 tons using a conversion factor of 1.7 tons per cubic yard).
4. Station 105+00 to 105+80 from project limits left to project limits right, from approximately 1 to 6+ feet below grade. Soil excavated from this area will require off-site bioremediation. The estimated volume of contaminated soil to be excavated at this location is 411 cubic yards (approximately 699 tons using a conversion factor of 1.7 tons per cubic yard).
5. Station 113+40 to 114+10 from reference line to 70 feet left of reference line, from approximately 1 to 6+ feet below grade. Soil excavated from this area will require off-site bioremediation. The estimated volume of contaminated soil to be excavated at this location is 317 cubic yards (approximately 539 tons using a conversion factor of 1.7 tons per cubic yard).
6. Station 114+00 to 115+00 from reference line to project limits right, from approximately 4 to 8+ feet below grade. Soil excavated from this area will require off-site bioremediation. The estimated volume of contaminated soil to be excavated at this location is 0 cubic yards (approximately 0 tons using a conversion factor of 1.7 tons per cubic yard).

If contaminated soils are encountered elsewhere on the project, terminate excavation activities in the area and notify the engineer.

For further information regarding previous investigation and remediation activities at these sites contact:

Name: Andrew Malsom
Address: 141 NW Barstow Street
PO Box 798
Waukesha, WI 53187-0798
Phone: (262) 548-6705
Fax: (262) 548-6891
E-mail: andrew.malsom@dot.wi.gov

A.3 Coordination

Coordinate work under this contract with the environment consultant:

Consultant: TRC Environmental Corporation
Address: 150 N. Patrick Blvd., Ste. 180, Brookfield, WI 53045
Contact: Bryan Bergmann
Phone: (262) 901-2126 office, (262) 227-9210 cell
Fax: (262) 879-1220
E-mail: bbergmann@trcsolutions.com

The role of the environmental consultant will be limited to:

1. Determining the location and limits of contaminated soil to be excavated based on soil analytical results from previous investigations, visual observations, and field screening of soil that is excavated;
2. Identifying contaminated soils to be hauled to the bioremediation facility;
3. Documenting that activities associated with management of contaminated soil are in conformance with the contaminated soil management methods for this project as specified herein; and
4. Obtaining the necessary approvals for disposal of contaminated soil from the bioremediation facility.

Provide at least a 14-calendar day notice of the preconstruction conference date to the environmental consultant. At the preconstruction conference, provide a schedule for all excavation activities in the areas of contamination to the environmental consultant. Also notify the environmental consultant at least three calendar days prior to commencement of excavation activities in each of the contaminated areas.

Coordinate with the environmental consultant to ensure that the environmental consultant is present during excavation activities in the contaminated areas. Perform excavation work in each of the contaminated areas on a continuous basis until excavation work is completed.

Identify the DNR approved bioremediation facility that will be used for disposal of contaminated soils and provide this information to the environmental consultant no later than 30 calendar days prior to commencement of excavation activities in the contaminated areas or at the preconstruction conference, whichever comes first. The environmental consultant will be responsible for obtaining the necessary approvals for disposal of contaminated soils from the bioremediation facility. Do not transport contaminated soil offsite without prior approval from the environmental consultant.

A.4 Health and Safety Requirements

Add the following to standard spec 107.1:

During excavation activities, expect to encounter soil contaminated with gasoline, diesel fuel, fuel oil, or other petroleum related products. Site workers taking part in activities that will result in the reasonable probability of exposure to safety and health hazards associated with hazardous materials shall have completed health and safety training that meets the Occupational Safety and Health Administration (OSHA) requirements for Hazardous Waste Operations and Emergency Response (HAZWOPER), as provided in 29 CFR 1910.120.

Prepare a site-specific Health and Safety Plan, and develop, delineate and enforce the health and safety exclusion zones for each contaminated site location as required by 29 CFR 1910.120. Submit the site-specific health and safety plan and written documentation of up-to-date OSHA training to the engineer prior to the start of work.

B (Vacant)

C Construction

Add the following to standard spec 205.3:

Control operations in the contaminated areas to minimize the quantity of contaminated soil excavated.

The environmental consultant will periodically evaluate soil excavated from the contaminated areas to determine if the soil will require offsite bioremediation. The environmental consultant will evaluate excavated soil based on field screening results, visual observations, and soil analytical results from previous environmental investigations. Assist the environmental consultant in collecting soil samples for evaluation using excavation equipment. The sampling frequency shall be a maximum of one sample for every 20 cubic yards excavated.

Directly load and haul soils designated by the environmental consultant for offsite bioremediation to the DNR approved bioremediation facility. Use loading and hauling practices that are appropriate to prevent any spills or releases of petroleum-contaminated soils or residues. Prior to transport, sufficiently dewater soils designated for off-site bioremediation so as not to contain free liquids.

D Measurement

The department will measure Excavation, Hauling, and Disposal of Petroleum Contaminated Soil in tons of contaminated soil, accepted by the bioremediation facility as documented by weight tickets generated by the bioremediation facility.

E Payment

The department will pay for measured quantities at the contract unit price under the following bid item:

ITEM NUMBER	DESCRIPTION	UNIT
205.0501.S	Excavation, Hauling, and Disposal of Petroleum Contaminated Soil	TON

Payment is full compensation for excavating, segregating, loading, hauling, and treatment via bioremediation of contaminated soil; obtaining solid waste collection and transportation service operating licenses; assisting in the collection soil samples for field evaluation; and dewatering of soils prior to transport, if necessary.

stp-205-003 (20150630)

C Construction

Install mulch according to standard spec 632.3.9 to depth indicated in plans.

Do not use any weed barrier fabric in mulch areas.

Do not damage plants, structures, and/or other materials already in place, when placing the mulch.

D Measurement

The department will measure Shredded Hardwood Bark Mulch by the square yard, acceptably completed.

E Payment

The department will pay for measured quantities at the contract unit price under the following bid item:

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0180.01	Shredded Hardwood Bark Mulch	SY

Payment is full compensation for furnishing and installing all materials.

75. Management of Solid Waste, Item SPV.0195.01.

A General

A.1 Description

This work will conform with the requirements of standard spec 205 of the Standard Specifications; to pertinent parts of the Wisconsin Administrative Code, Chapters NR 700-736 Environmental Investigation and Remediation of Environmental Contamination; Wisconsin Administration Code, Chapters NR 500-538, Solid Waste; and as shown on the plans and as supplemented herein.

Soil containing chlorinated solvents will be encountered within the construction limits. The solid waste may contain NR 500 non-exempt industrial wastes including soil mixed with foundry sand. Impacted waste material excavated during construction which cannot in the opinion of the environmental consultant be managed as common excavation or as petroleum-contaminated soil will be managed as solid waste.

This work consists of excavating, segregating, temporary stockpiling, loading, hauling, and disposing of solid waste material at a WDNR-approved disposal facility. The nearest WDNR-approved disposal facilities are:

Republic Services Kestrel Hawk Landfill
1989 Oakes Rd.
Racine, WI 53406
(262) 884-7081

Waste Management Pheasant Run RDF Landfill
10712 South 124th Street
Bristol, WI 53104
(800) 963-4776

Advanced Disposal Emerald Park Landfill
W124S10629 South 124th Street
Muskego, WI 53150
(414) 529-1360

Provide information to the environmental consultant and engineer that indicates the WDNR-approved disposal facility that the contractor will use.

A.2 Notice to the Contractor-Solid Waste Locations

The department and others completed hazardous materials assessment for locations within this project where excavation is required. Investigation for soil contamination was conducted at several locations. Results indicate that solid waste (soil contaminated with chlorinated solvents) is present at the following locations as shown on the plans:

1. Station 121+50 to 123+10, from reference line to project limits right, from approximately 1 to 8+ feet bgs. Approximately 638 cubic yards (approximately 1085 tons at an estimated 1.7 tons per cubic yard) of solid waste soil will be excavated from this area.
2. Station 122+00 to 123+00, from reference line to project limits left, from approximately 1 to 16+ feet bgs. Soil at this location contains foundry sand. Approximately 16 cubic yards (approximately 28 tons at an estimated 1.7 tons per cubic yard) of non-exempt solid waste will be excavated from this area.

Directly load solid waste soil excavated by the project at the above location into truck that will transport the material to a WDNR-licensed landfill facility for landfill disposal.

If obviously contaminated soils or signs of NR 500 non-exempt solid waste and hazardous materials are unexpectedly encountered elsewhere on the project, terminate excavation activities in the area and notify the engineer. Examples of these unexpected conditions may include, but are not limited to, buried containers or tanks, noxious odors and fumes, stained soils, sheen on ground water, other industrial wastes, and significant volumes of municipal or domestic garbage.

No active groundwater monitoring wells were observed within the construction limits. If active groundwater monitoring wells are encountered during construction, notify engineer and protect them to maintain their integrity. The environmental consultant will determine if monitoring wells need to be maintained. For monitoring wells that do need to be maintained, adjust the wells that do not conflict with structures or curb and gutter to be flush with the final grade. For wells that conflict with the previously mentioned items or if monitoring wells are not required to be maintained, they will be abandoned by others.

If dewatering is required at the above location, conduct the dewatering according to Section C below.

A.3 Excavation Management Plan Approval

The excavation management plan for this project has been designed to minimize the off-site disposal of contaminated waste. The excavation management plan, including these special provisions, has been developed in cooperation with the WDNR. The WDNR concurrence letter is on file at the Wisconsin Department of Transportation. For further information regarding previous investigation and remediation activities in these areas contact:

Name: Andrew Malsom
Address: 141 NW Barstow Street, Waukesha, WI 53187-0798
Phone: (262) 548-6705
Fax: (262) 548-6891
E-mail: andrew.malsom@dot.state.wi.us

A.4 Coordination

Coordinate work under this contract with the environment consultant:

Consultant: TRC Environmental Corporation
Address: 150 N. Patrick Blvd. Ste. 180, Brookfield, WI 53045
Contact: Bryan Bergmann
Phone: (262) 901-2126
Fax: (262) 879-1220
E-mail: bbergmann@trcsolutions.com

The role of the environmental consultant will be limited to:

- (5) Determining the location and limits of solid waste to be excavated based on soil analytical results from previous investigations, visual observations, and field screening of soil that is excavated;
- (6) Identifying soils to be hauled to the landfill facility;
- (7) Documenting that activities associated with management of solid waste are in conformance with the solid waste management methods for this project as specified herein; and
- (8) Obtaining the necessary approvals for disposal of solid waste from the landfill facility.

Provide at least a 14-calendar day notice of the preconstruction conference date to the environmental consultant. At the preconstruction conference, provide a schedule for all excavation activities in the area of solid waste fill described in A.2 to the environmental consultant. Identify the WDNR licensed landfill facility that will be used for disposal of solid waste and provide this information to the environmental

consultant no later than 30 calendar days prior to commencement of excavation in the impacted area or at the preconstruction conference, whichever comes first. The environmental consultant will be responsible for obtaining the necessary approvals from the landfill facility for disposal of the solid waste.

Coordinate with the environmental consultant to ensure that the environmental consultant is present during excavation in the impacted area. Notify the environmental consultant at least three calendar days prior to commencement of excavation in the impacted area. Perform excavation in the impacted area on a continuous basis until excavation work is completed. Do not transport soil containing solid waste offsite without prior approval from the environmental consultant.

A.5 Health and Safety Requirements

Supplement standard spec 107.1 with the following:

During excavation activities, expect to encounter historic fill contaminated with industrial waste (foundry sand) and associated regulated metals and organic compounds. Site workers taking part in activities that will result in the reasonable probability of exposure to safety and health hazards associated with hazardous materials shall have completed health and safety training that meets the Occupational Safety and Health Administration (OSHA) requirements for Hazardous Waste Operations and Emergency Response (HAZWOPER), as provided in 29 CFR 1910.120.

Prepare a site-specific Health and Safety Plan, and develop, delineate and enforce the health and safety exclusion zones for each impacted area as required by 29 CFR 1910.120. Submit the site-specific health and safety plan and written documentation of up-to-date OSHA training to the engineer prior to the start of work.

B (Vacant)

C Construction

Supplement standard spec 205.3 with the following:

Control operations in the impacted area to minimize the quantity of soil excavated.

The environmental consultant will periodically monitor soil excavated from the area identified in A.2 above. The environmental consultant will evaluate excavated soil based on field screening results, visual observations, and soil analytical results from previous environmental investigations. Assist the environmental consultant in collecting soil samples for evaluation using excavation equipment. The sampling frequency shall be a maximum of one sample for every 20 cubic yards excavated.

Directly load and haul solid waste soil designated by the environmental consultant for offsite disposal to the WDNR approved landfill facility. Use loading and hauling practices that are appropriate to prevent any spills or releases of the material. Prior to transport, sufficiently dewater soils designated for off-site disposal so as not to contain free liquids.

Verify that the vehicles used to transport material are licensed for such activity according to applicable state and federal regulations. Obtain the necessary disposal facility approvals and WDNR approvals for disposal. Do not transport regulated solid waste off-site without obtaining the approval of the environmental consultant and engineer and notifying the disposal facility.

During excavations in the areas of known contamination, larger chunks of clean concrete (approximately 2 cubic feet), asphalt and bricks shall be segregated from the fill, to the extent practical and managed as common excavation. Under NR 500.08 this material is exempt from licensing and requirements of Wisconsin Administrative Code NR 500-538 of the solid waste regulations and will be reused as designated by the engineer as fill on the project, or it will be disposed of off-site at the contractor's disposal site(s).

If dewatering is required in areas of known contamination, water generated from dewatering activities may contain petroleum compounds and/or metals. Such water may require analytical testing, and with approval of the City of Racine Wastewater Utility be discharged to the sanitary sewer as follows:

1. Meet all applicable requirements of the City of Racine Wastewater Utility including the control of suspended solids. Perform all necessary monitoring to document compliance with the City of Racine Wastewater Utility requirements. Furnish, install, operate, maintain, disassemble, and remove treatment equipment necessary to comply with the City of Racine Wastewater Utility requirements.
2. Ensure continuous dewatering and excavation safety at all times. Provide, operate, and maintain adequate pumping equipment and drainage and disposal facilities.

Notify the engineer of any dewatering activities and obtain any permits necessary to discharge water. Provide copies of such permits to the engineer. Meet any requirements and pay any costs for obtaining and complying with such permit use. Follow all applicable legislative statutes, judiciary decisions, and regulations of the State of Wisconsin.

Costs associated with excavation dewatering in contaminated areas are considered incidental to this pay item. The Wisconsin Department of Transportation will be the generator of regulated solid waste from this construction project.

D Measurement

The department will measure Management of Solid Waste by the ton of waste, accepted by the disposal facility and as documented by weight tickets.

E Payment

The department will pay for measured quantities at the contract unit price under the following bid item:

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0195.01	Management of Solid Waste	TON

Payment is full compensation for excavating, segregating, loading, hauling, and landfill disposal of solid waste; obtaining solid waste collection and transportation service operating licenses; assisting in the collection of soil samples for field evaluation; dewatering of soils prior to transport, if necessary.

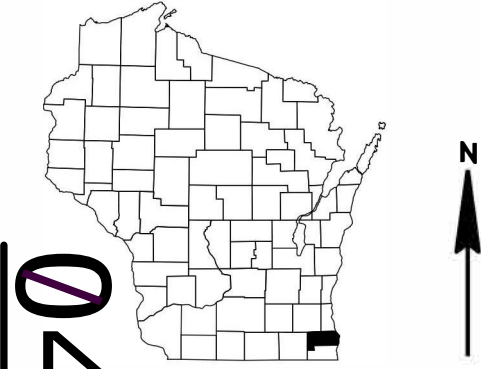
PROJECT ID: 2260-07-70
WITH: N/A

COUNTY: RACINE

ORDER OF SHEETS

Section No. 1	Title
Section No. 2	Typical Sections and Details
Section No. 3	Estimate of Quantities
Section No. 3	Miscellaneous Quantities
Section No. 4	Right of Way Plat
Section No. 5	Plan and Profile
Section No. 6	Standard Detail Drawings
Section No. 7	Sign Plates
Section No. 8	Structure Plans
Section No. 9	Computer Earthwork Data
Section No. 9	Cross Sections

TOTAL SHEETS = 712



04

DESIGN DESIGNATION

A.A.D.T.	= 15,100 - 23,300
A.A.D.T.	= 18,100 - 28,200
D.H.V.	= 10.8%
D.D.	= 58 - 42
T.	= 5.4%
DESIGN SPEED	= 35 MPH
ESALS	= 4,540,600

CONVENTIONAL SYMBOLS

PLAN		PROFILE	
CORPORATE LIMITS		GRADE LINE	
PROPERTY LINE		ORIGINAL GROUND	
LOT LINE		MARSH OR ROCK PROFILE (To be noted as such)	
LIMITED HIGHWAY EASEMENT		SPECIAL DITCH	
EXISTING RIGHT OF WAY		GRADE ELEVATION	
PROPOSED OR NEW R/W LINE		CULVERT (Profile View)	
SLOPE INTERCEPT		UTILITIES	
REFERENCE LINE		ELECTRIC	
EXISTING CULVERT		FIBER OPTIC	
PROPOSED CULVERT (Box or Pipe)		GAS	
COMBUSTIBLE FLUIDS		SANITARY SEWER	
MARSH AREA		STORM SEWER	
WOODED OR SHRUB AREA		TELEPHONE	
		WATER	
		UTILITY PEDESTAL	
		POWER POLE	
		TELEPHONE POLE	

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

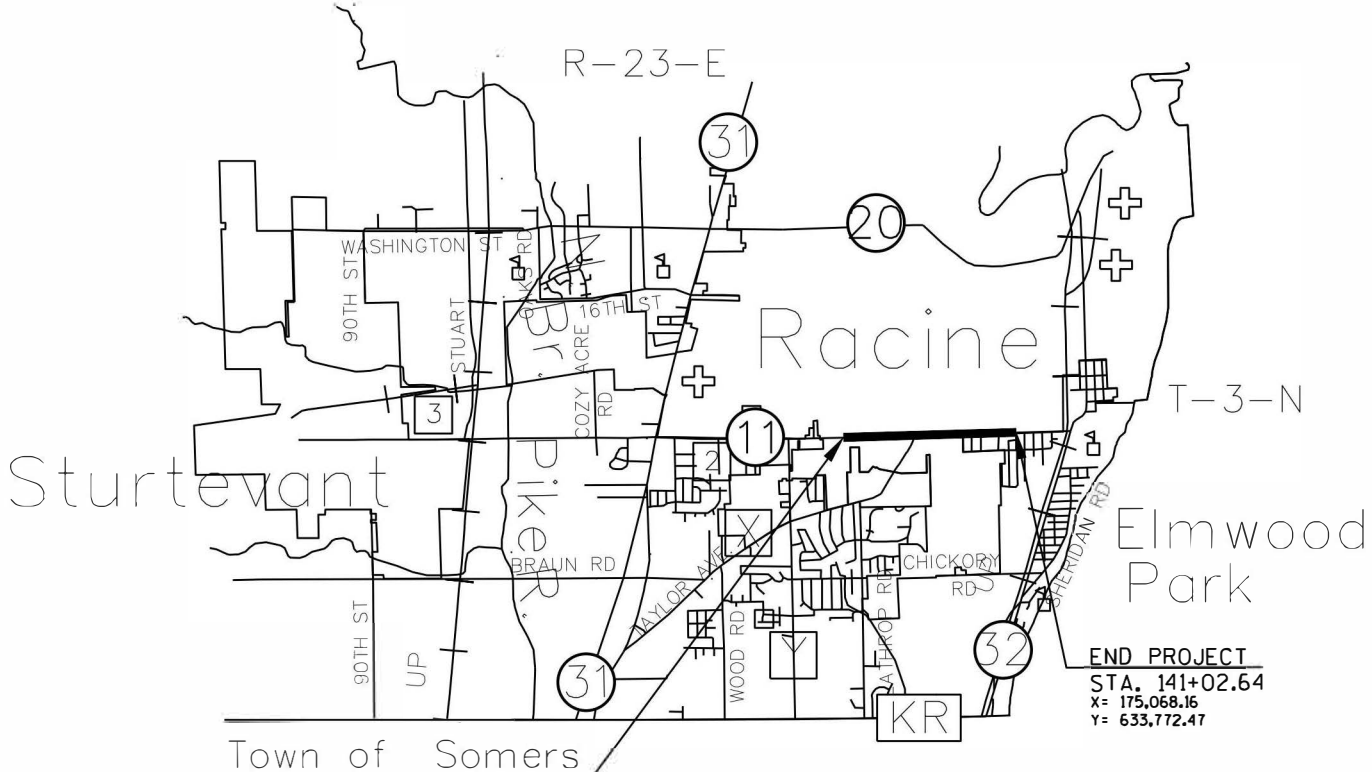
PLAN OF PROPOSED IMPROVEMENT

DURAND AVENUE, CITY OF RACINE

(KENTUCKY STREET TO KEARNEY AVENUE)

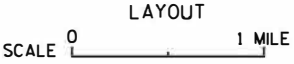
STH 11
RACINE COUNTY

STATE PROJECT NUMBER
2260-07-70



BEGIN PROJECT
STA. 77+09.92
X= 627,380.18
Y= 175,014.59

END PROJECT
STA. 141+02.64
X= 175,068.16
Y= 633,772.47



TOTAL NET LENGTH OF CENTERLINE = 1.211 MI.

HORIZONTAL POSITIONS SHOWN ON THIS PLAN ARE WISCONSIN COUNTY COORDINATES, RACINE COUNTY, NAD83 (2007), IN U.S. SURVEY FEET. VALUES ARE GRID COORDINATES, GRID BEARINGS, AND GRID DISTANCES. GRID DISTANCES MAY BE USED AS GROUND DISTANCES.
ELEVATIONS SHOWN ON THIS PLAN ARE REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 NAVD88 (2007).

STATE PROJECT	FEDERAL PROJECT	
	PROJECT	CONTRACT
2260-07-70	WISC 2019626	1

ACCEPTED FOR
CITY of RACINE
5-1-18 *John C. Perry*
City Engineer
(Date) (Signature & Title of Official)

ORIGINAL PLANS PREPARED BY:
SA STRAND ASSOCIATES
126 N. JEFFERSON STREET, STE 350
MILWAUKEE, WISCONSIN 53202
(414) 271-0771

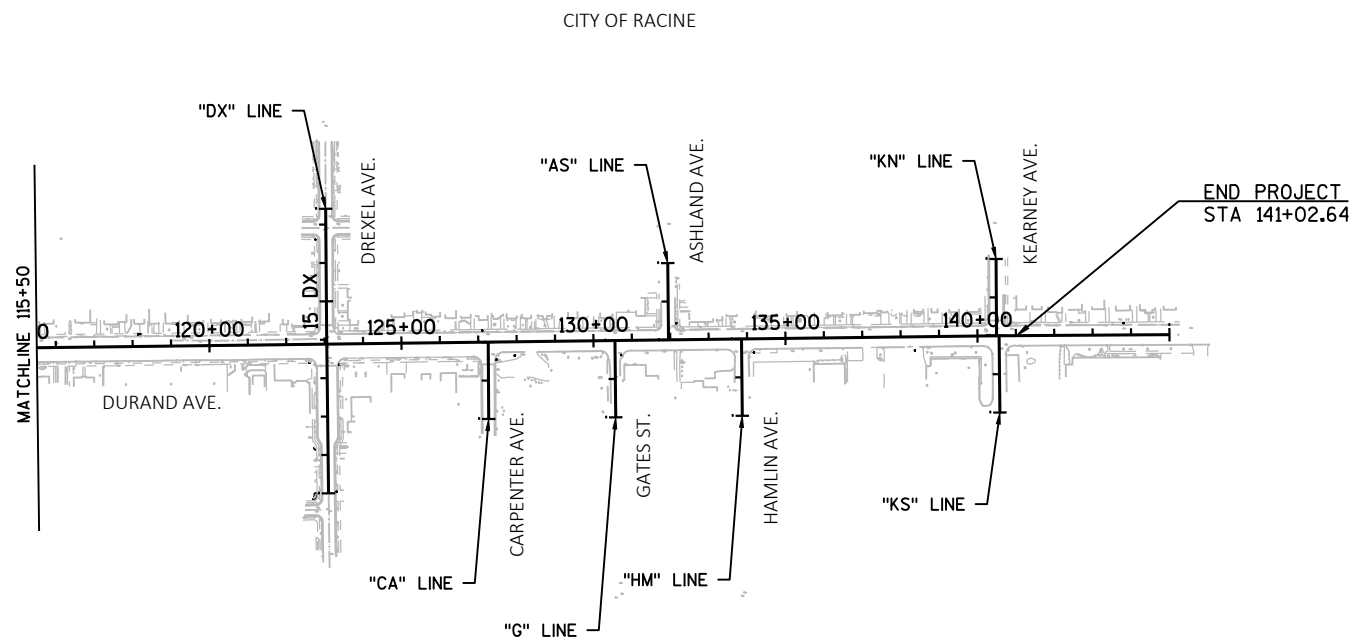
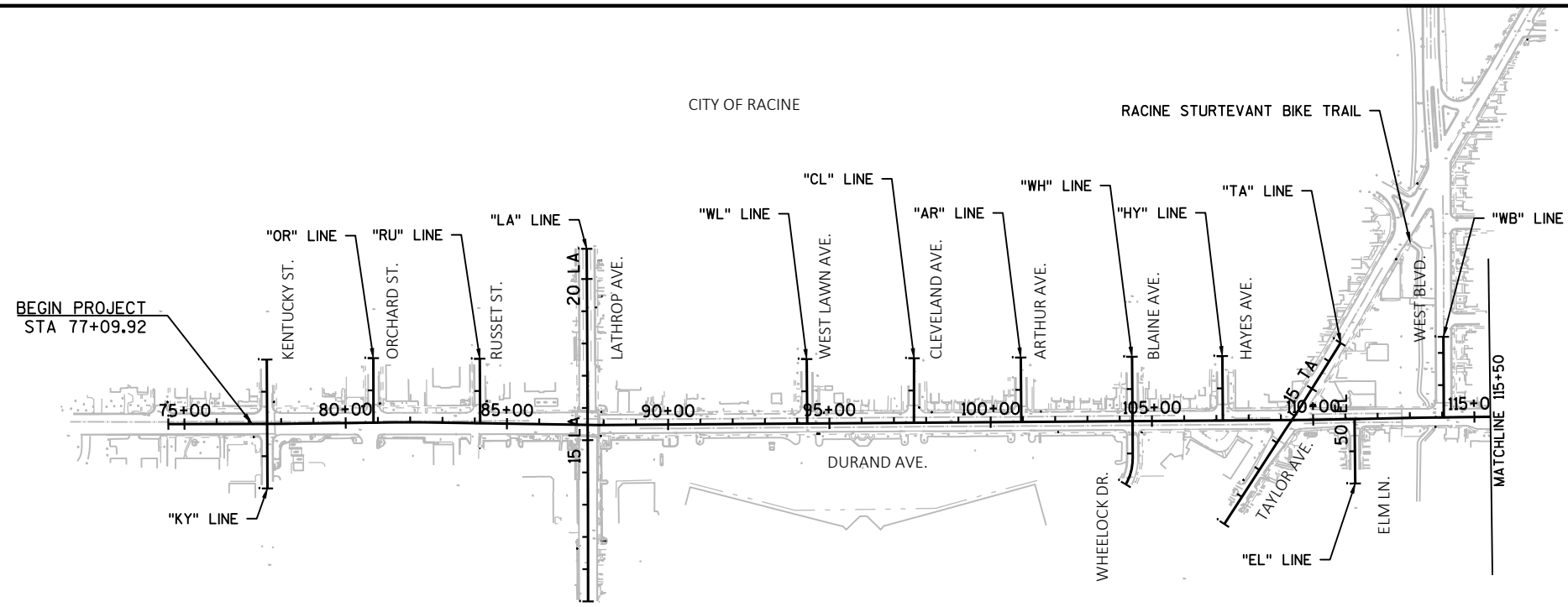
WISCONSIN PROFESSIONAL ENGINEER
BHUPENDRA B. BISTA
E - 34675
NEW BERLIN WI
Bhupendra B. Bista
5/1/2018

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

PREPARED BY
Surveyor STRAND ASSOCIATES, INC.
Designer STRAND ASSOCIATES, INC.
Project Manager ROBERT BELLIN
Regional Examiner
Regional Supervisor BENEDICT ERUCHALU

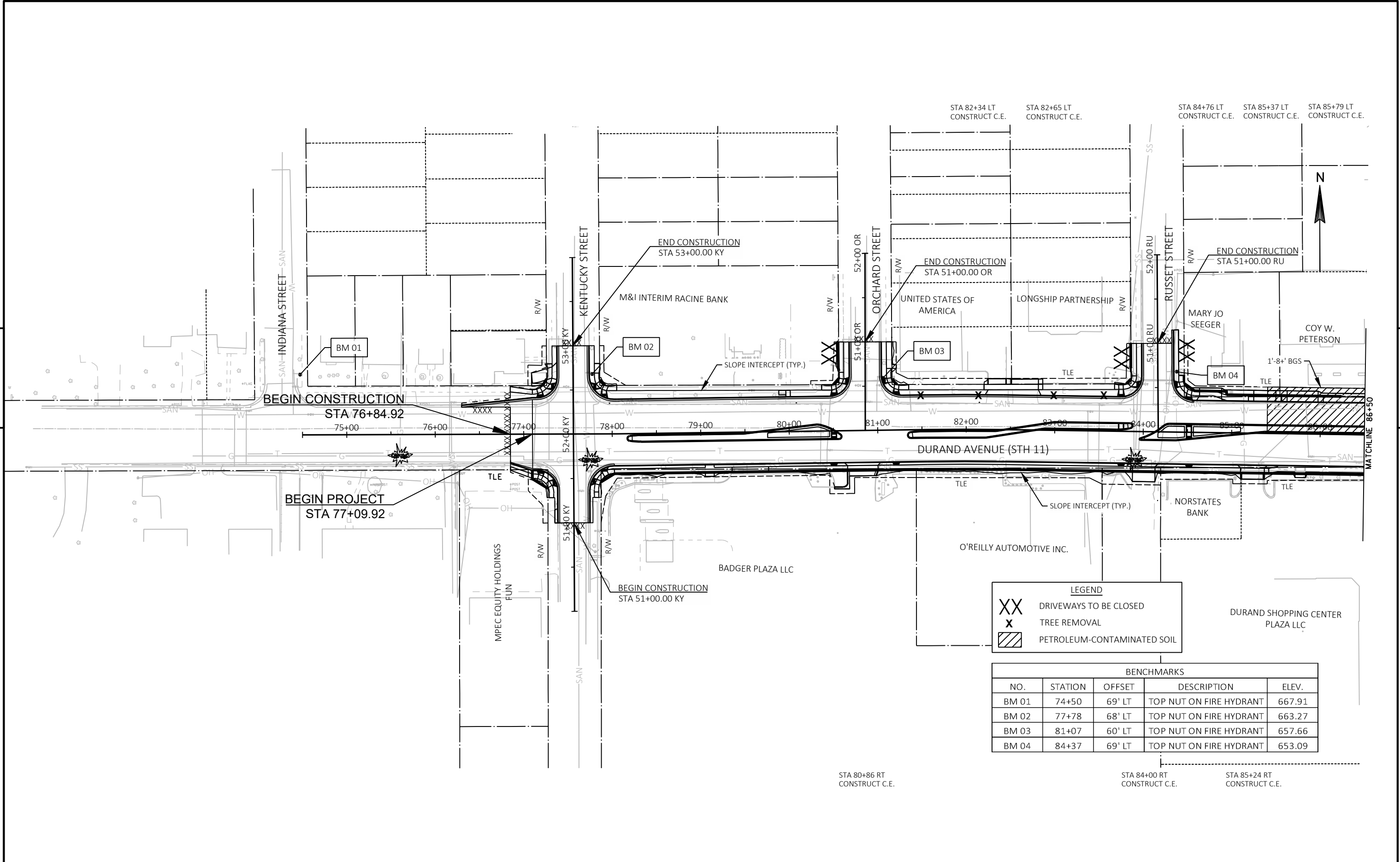
APPROVED FOR THE DEPARTMENT
DATE: 5/1/2018 *Robert Bellin*
(Signature)

E



5

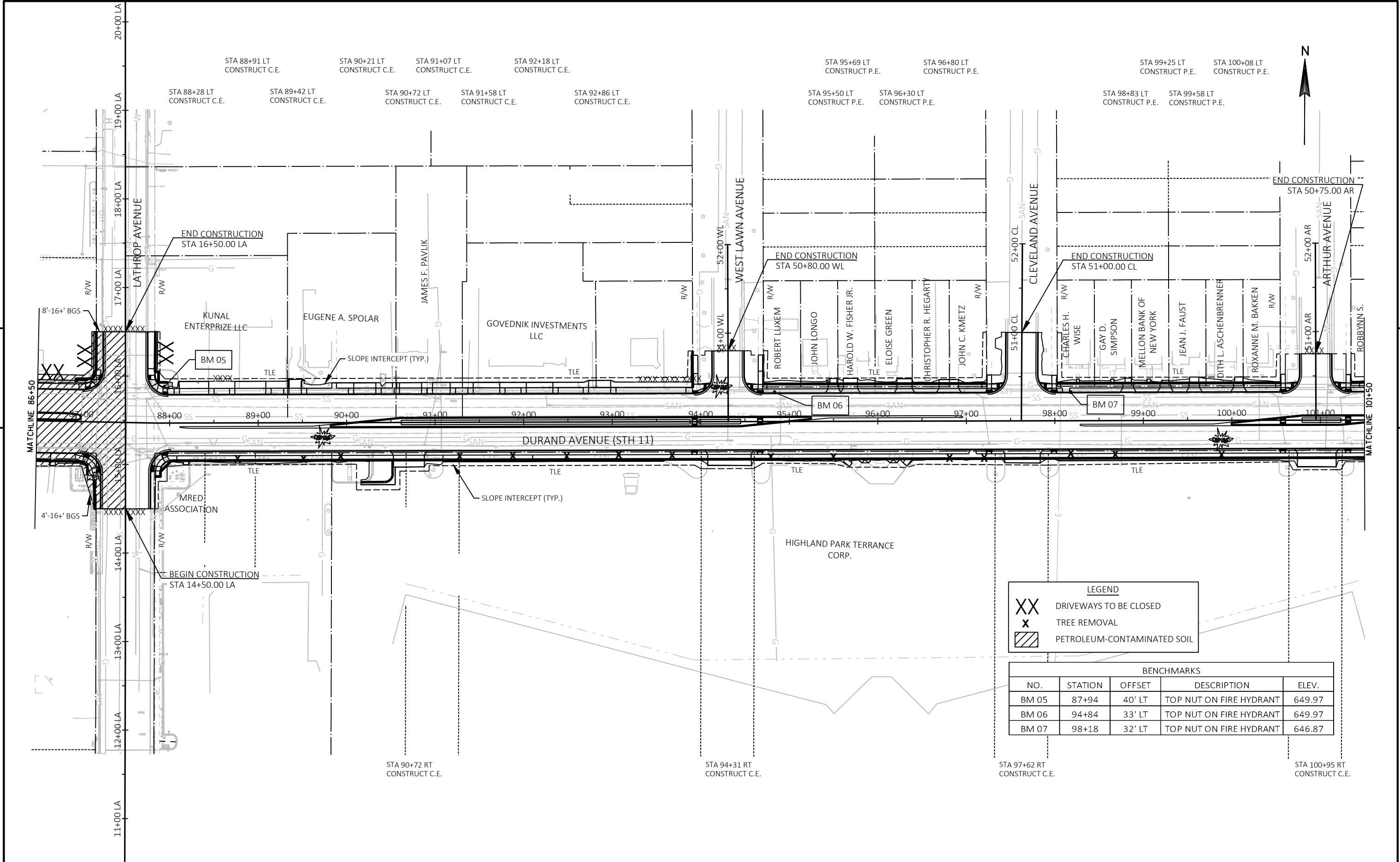
5



LEGEND

- XX DRIVEWAYS TO BE CLOSED
- x TREE REMOVAL
- [Hatched Box] PETROLEUM-CONTAMINATED SOIL

BENCHMARKS				
NO.	STATION	OFFSET	DESCRIPTION	ELEV.
BM 01	74+50	69' LT	TOP NUT ON FIRE HYDRANT	667.91
BM 02	77+78	68' LT	TOP NUT ON FIRE HYDRANT	663.27
BM 03	81+07	60' LT	TOP NUT ON FIRE HYDRANT	657.66
BM 04	84+37	69' LT	TOP NUT ON FIRE HYDRANT	653.09



STA 88+91 LT CONSTRUCT C.E. STA 90+21 LT CONSTRUCT C.E. STA 91+07 LT CONSTRUCT C.E. STA 92+18 LT CONSTRUCT C.E. STA 95+69 LT CONSTRUCT P.E. STA 96+80 LT CONSTRUCT P.E. STA 99+25 LT CONSTRUCT P.E. STA 100+08 LT CONSTRUCT P.E.

STA 88+28 LT CONSTRUCT C.E. STA 89+42 LT CONSTRUCT C.E. STA 90+72 LT CONSTRUCT C.E. STA 91+58 LT CONSTRUCT C.E. STA 92+86 LT CONSTRUCT C.E. STA 95+50 LT CONSTRUCT P.E. STA 96+30 LT CONSTRUCT P.E. STA 98+83 LT CONSTRUCT P.E. STA 99+58 LT CONSTRUCT P.E.



END CONSTRUCTION
STA 16+50.00 LA

END CONSTRUCTION
STA 50+80.00 WL

END CONSTRUCTION
STA 51+00.00 CL

END CONSTRUCTION
STA 50+75.00 AR

KUNAL ENTERPRIZE LLC

EUGENE A. SPOLAR

GOVEDNIK INVESTMENTS LLC

ROBERT LUXEM

JOHN LONGO

HAROLD W. FISHER JR.

ELOISE GREEN

CHRISTOPHER R. HEGARTY

JOHN C. KMETZ

CHARLES H. WISE

GAY D. SIMPSON

MELLON BANK OF NEW YORK

JEAN J. FAUST

DITH L. ASCHENBRENNER

ROXANNE M. BAKKEN

ROBBYNN S.

BM 05

BM 06

BM 07

DURAND AVENUE (STH 11)

HIGHLAND PARK TERRACE CORP.

BEGIN CONSTRUCTION
STA 14+50.00 LA

LEGEND

- XX DRIVEWAYS TO BE CLOSED
- x TREE REMOVAL
- ▨ PETROLEUM-CONTAMINATED SOIL

BENCHMARKS

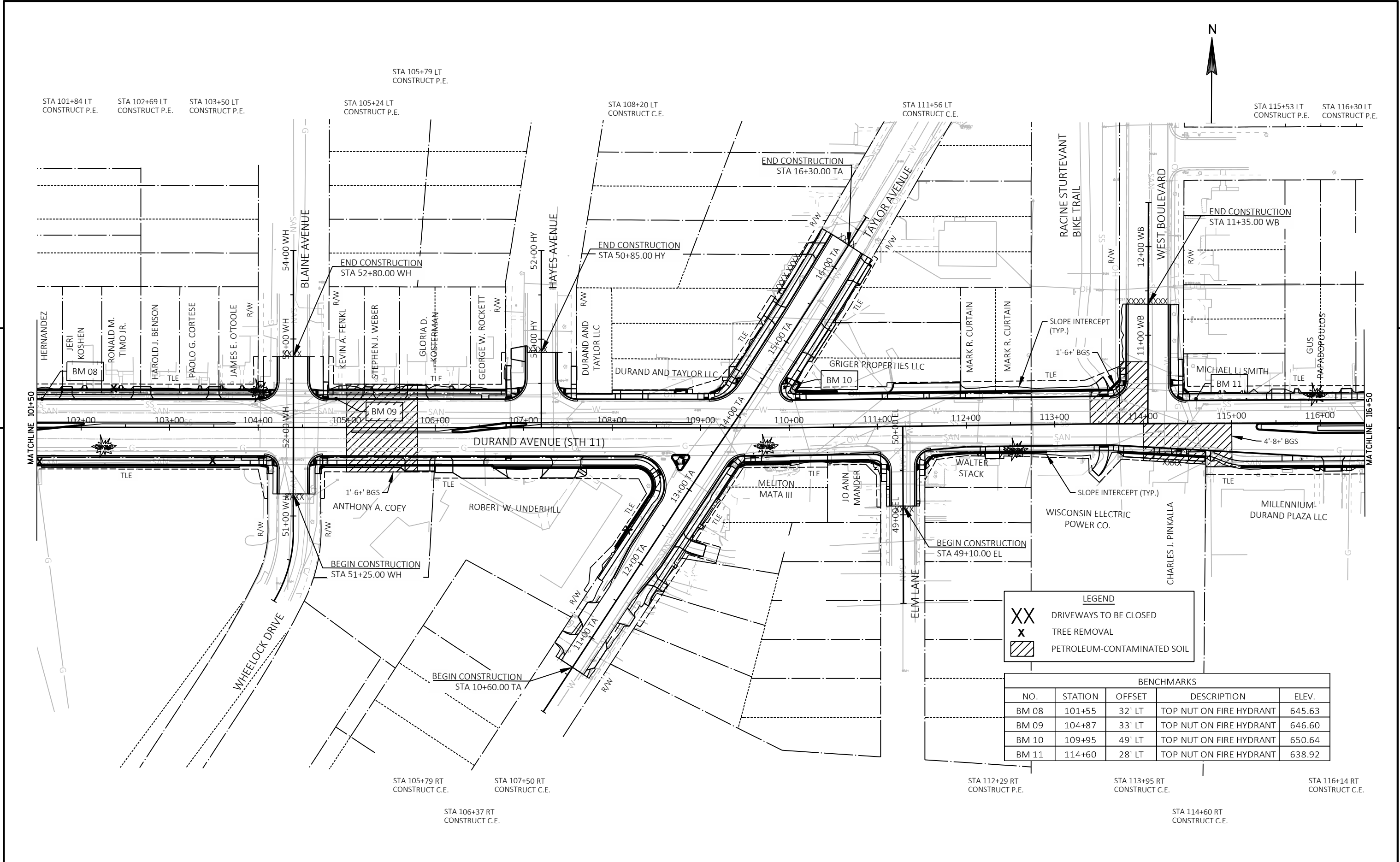
NO.	STATION	OFFSET	DESCRIPTION	ELEV.
BM 05	87+94	40' LT	TOP NUT ON FIRE HYDRANT	649.97
BM 06	94+84	33' LT	TOP NUT ON FIRE HYDRANT	649.97
BM 07	98+18	32' LT	TOP NUT ON FIRE HYDRANT	646.87

STA 90+72 RT CONSTRUCT C.E.

STA 94+31 RT CONSTRUCT C.E.

STA 97+62 RT CONSTRUCT C.E.

STA 100+95 RT CONSTRUCT C.E.



5

5

LEGEND

XX	DRIVEWAYS TO BE CLOSED
x	TREE REMOVAL
[Hatched Box]	PETROLEUM-CONTAMINATED SOIL

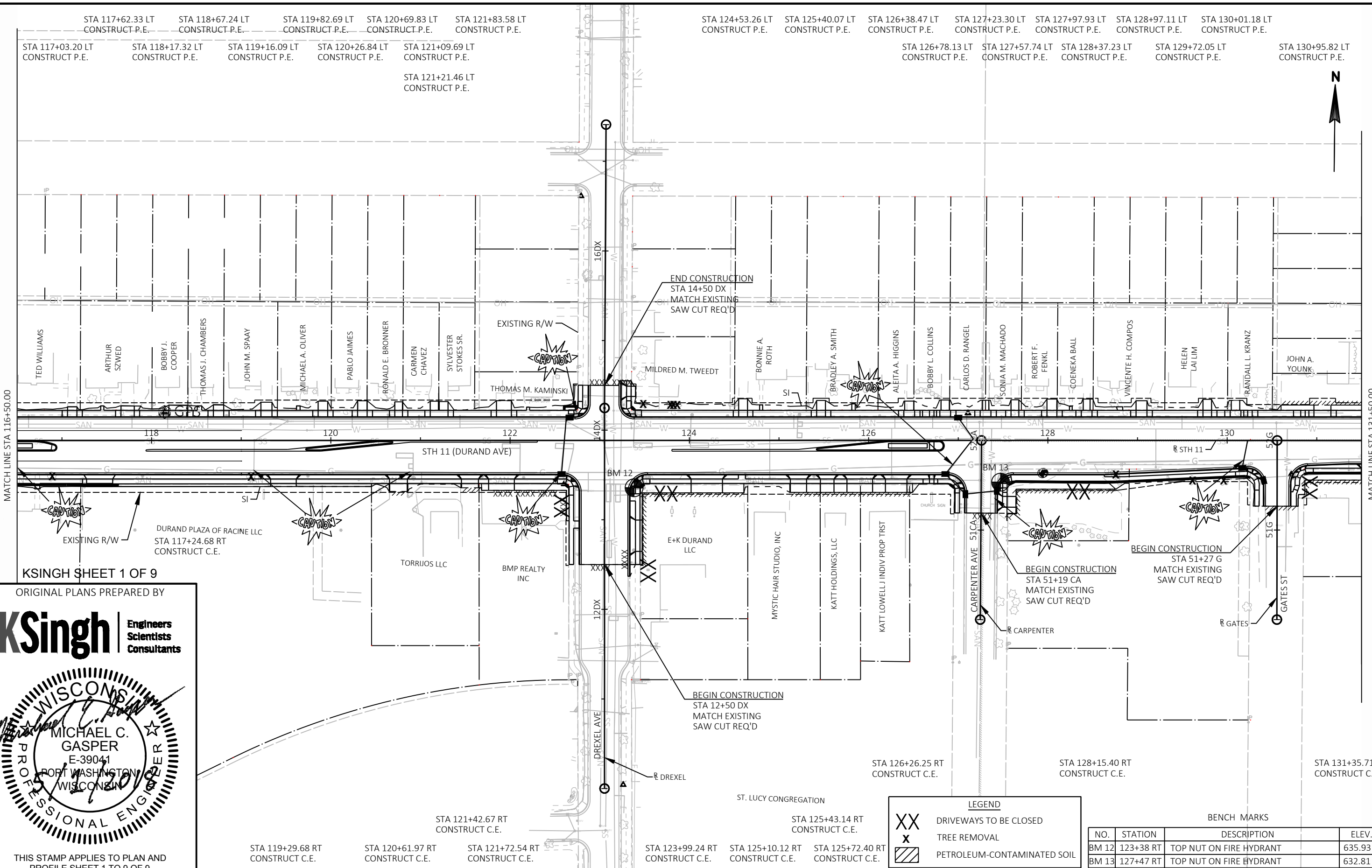
BENCHMARKS

NO.	STATION	OFFSET	DESCRIPTION	ELEV.
BM 08	101+55	32' LT	TOP NUT ON FIRE HYDRANT	645.63
BM 09	104+87	33' LT	TOP NUT ON FIRE HYDRANT	646.60
BM 10	109+95	49' LT	TOP NUT ON FIRE HYDRANT	650.64
BM 11	114+60	28' LT	TOP NUT ON FIRE HYDRANT	638.92

PROJECT NO: 2260-07-70 HWY: STH 11 COUNTY: RACINE PLAN: DURAND AVENUE SHEET: E

FILE NAME: S:\MIL\1000-1099\1092\003\ACAD\CIVIL 3D\SHEETS\PLAN\050101_PP.DWG PLOT DATE: 4/23/2018 1:44 PM PLOT BY: NOTSON, ERIC PLOT NAME: PLOT SCALE: #####

WISDOT/CADD SHEET 44



5

5

KSINGH SHEET 1 OF 9
ORIGINAL PLANS PREPARED BY

KSingh Engineers
Scientists
Consultants



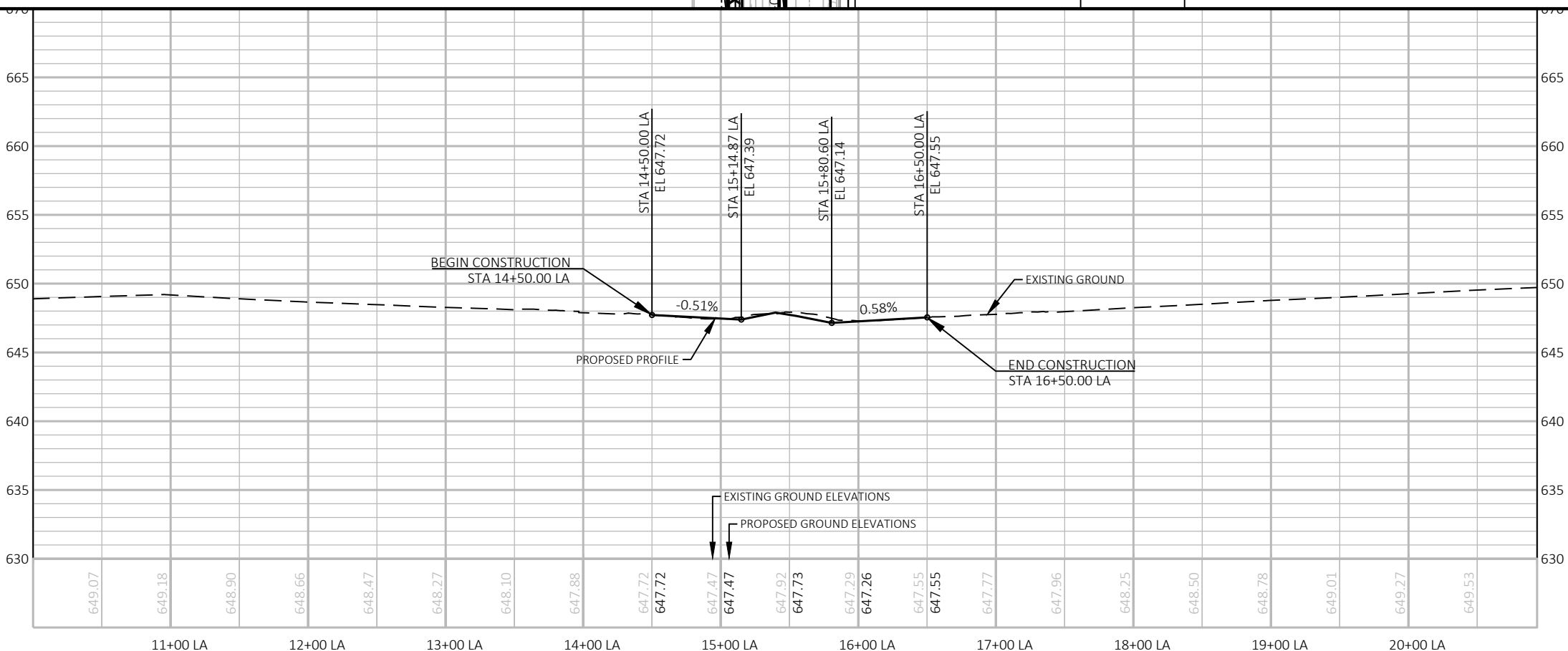
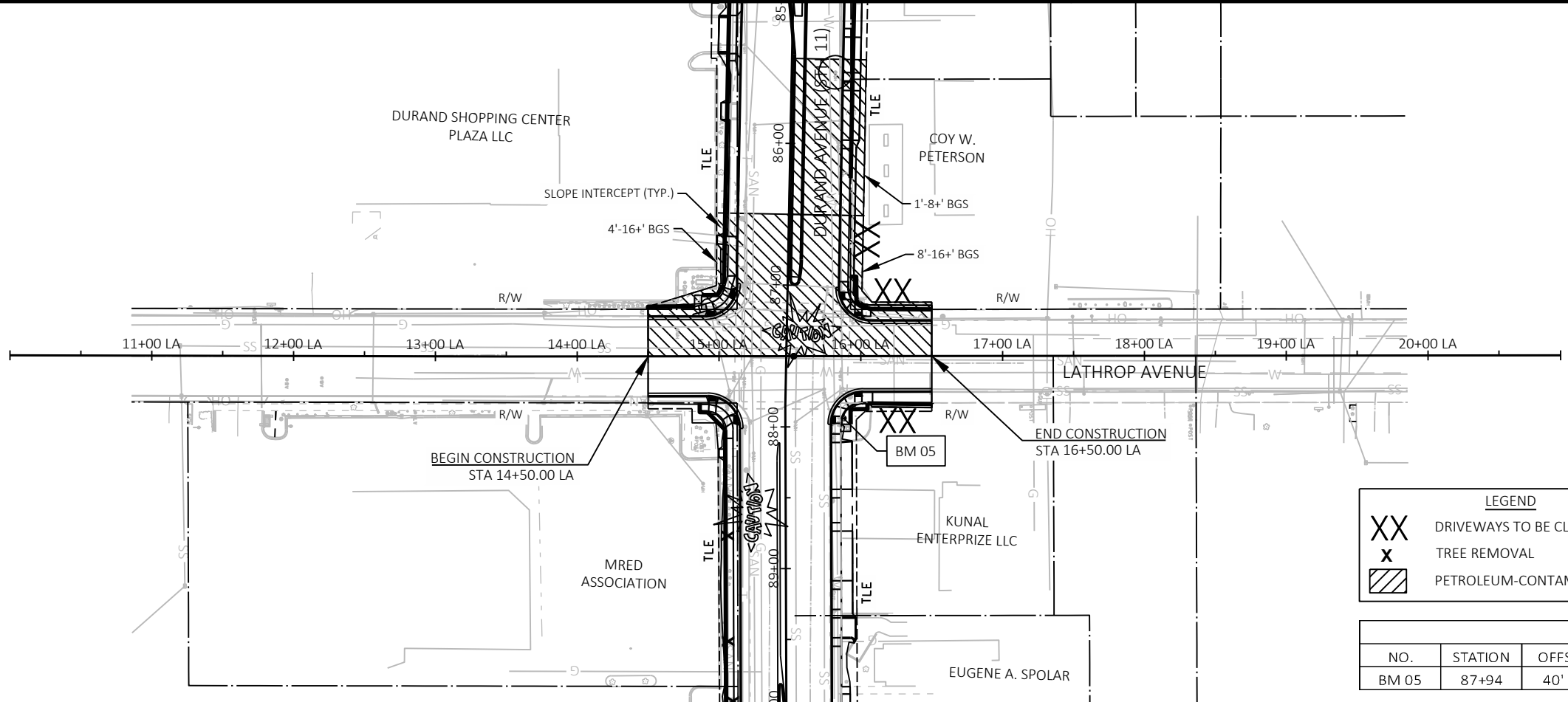
THIS STAMP APPLIES TO PLAN AND PROFILE SHEET 1 TO 9 OF 9

LEGEND

XX	DRIVEWAYS TO BE CLOSED
x	TREE REMOVAL
▨	PETROLEUM-CONTAMINATED SOIL

BENCH MARKS

NO.	STATION	DESCRIPTION	ELEV.
BM 12	123+38 RT	TOP NUT ON FIRE HYDRANT	635.93
BM 13	127+47 RT	TOP NUT ON FIRE HYDRANT	632.81



PROJECT NO: 2260-07-70 HWY: STH 11 COUNTY: RACINE PLAN AND PROFILE: LATHROP AVENUE SHEET **E**

EARTHWORK SUMMARY

CATEGORY	STAGE	LOCATION	STA TO STA	(C) CUT CY	(E)	(2)	(5)	(4)	(5)	(6)	UNEXPANDED FILL CY	(7)	(8)	(9)	(10)
					UNDISTRIBUTED EBS EXCAVATION CY	205.0100 EXCAVATION COMMON CY	SALVAGED/ UNUSABLE PAVEMENT MATERIAL CY	AVAILABLE MATERIAL CY	0% REDUCED EBS IN FILL CY	110.0% EXPANDED EBS BACKFILL CY		100.0% UNDISTRIBUTED 311.0110* BREAKER RUN TON***	120.00% ** EXPANDED FILL CY	MASS ORDINATE EXCESS (SHORTAGE) CY	208.01 BORROW CY
0010	1	STH 11 (STAGE 1)	77+10 - 141+03	26,464	1,323	27,787	7,369	19,095	--	1,455	34	2,620	40	19,055	--
		KENTUCKY STREET (STAGE 1)	52+65 KY - 53+00 KY	85	8	93	34	51	--	9	0	16	0	51	--
		ORCHARD STREET	50+61 OR - 51+00 OR	93	9	102	41	52	--	10	0	18	0	52	--
		RUSSET STREET	50+58 RU - 51+00 RU	117	12	129	41	76	--	13	0	24	0	76	--
		LATHROP AVENUE (STAGE 1)	16+02 LA - 16+50 LA	132	13	145	85	47	--	14	0	26	0	47	--
		WEST LAWN AVENUE	50+52 WL - 50+80 WL	71	7	78	27	44	--	8	0	14	0	44	--
		CLEVELAND AVENUE	50+52 CL - 51+00 CL	103	10	113	27	76	--	11	0	20	--	76	--
		ARTHUR AVENUE	50+52 AR - 50+75 AR	56	6	62	22	34	--	7	0	12	--	34	--
		WHEELLOCK DRIVE (STAGE 1)	52+52 WH - 52+80 WH	53	5	58	16	37	--	6	0	10	1	37	--
		HAYES AVENUE	50+55 HY - 50+85 HY	75	8	83	29	46	--	9	0	16	0	46	--
		TAYLOR AVENUE (STAGE 1)	14+30 TA - 16+30 TA	591	59	650	305	286	--	65	3	117	4	282	--
		WEST BOULEVARD	10+44 WB - 11+35 WB	208	21	229	119	88	--	23	5	42	6	82	--
		DREXEL AVENUE	14+30 DX - 14+50 DX	51	5	56	24	27	--	6	0	10	0	27	--
		ASHLAND AVENUE	51+41 AS - 50+72 AS	73	7	80	38	35	--	8	1	14	1	34	--
		KEARNEY AVENUE	50+46 KN - 50+63 KN	48	5	53	10	38	--	6	1	10	1	37	--
		SUB-TOTAL STAGE 1		28,222	1,498	29,720	8,189	20,033	--	1,648	45	2,969	54	19,979	--
	2	STH 11 (STAGE 2)	77+10 - 119+00	25,735	1,287	27,022	7,369	18,366	--	1,416	0	2,548	--	18,366	--
		KENTUCKY STREET (STAGE 2)	51+00 KY - 51+36 KY	74	7	81	35	39	--	8	0	14	0	38	--
		LATHROP AVENUE (STAGE 2)	14+50 LA - 14+92 LA	119	12	131	85	34	--	13	1	24	1	32	--
		WHEELLOCK DRIVE (STAGE 2)	51+25 WH - 51+53 WH	71	7	78	32	39	--	8	0	14	--	39	--
		TAYLOR AVENUE (STAGE 2)	10+60 TA - 13+47 TA	1,281	128	1,409	428	853	--	141	1	253	2	852	--
		ELM LANE	49+10 EL - 49+56 EL	52	5	57	45	8	--	6	4	10	4	3	--
		DREXEL AVENUE	12+50 DX - 13+31 DX	308	31	339	134	174	--	34	1	61	1	173	--
		CARPENTER AVENUE	51+19 CA - 51+42 CA	55	6	61	22	33	--	7	1	12	2	31	--
		GATES AVENUE	51+27 G - 51+51 G	49	5	54	19	30	--	6	1	10	1	29	--
		HAMLIN AVENUE	51+30 HM - 51+54 HM	58	6	64	25	33	--	7	2	12	3	30	--
		KEARNEY AVENUE	51+38 KS - 51+49 KS	10	1	11	22	(12)	--	1	0	2	--	(12)	--
		SUB-TOTAL STAGE 2		27,811	1,495	29,306	8,215	19,596	--	1,645	12	2,960	15	19,581	--
		GRAND TOTAL		56,033	2,993	59,026	16,404	39,629	--	3,292	58	5,929	69	39,560	--

TOTAL (PAY ITEMS)

59,026

5,929

NOTES

- 1) UNDISTRIBUTED EBS EXCAVATION (E) = 5% OF CUT (C) ON STH 11, 10% OF CUT (C) ON SIDE STREETS
- 2) EXCAVATION COMMON IS THE SUM OF THE CUT (C) AND EBS EXCAVATION (E).
- 3) EBS EXCAVATION (E) TO BE BACKFILLED WITH BREAKER RUN.
- 4) AVAILABLE MATERIAL = CUT (C) - (S).
- 5) SOILS REMOVED AS EBS MUST BE WASTED OFFSITE AND NOT REUSED AS FILL
- 6) EXPANDED EBS BACKFILL THIS IS TO BE FILLED WITH BREAKER RUN. EBS EXPANSION FACTOR 1.10.
- 7) UNDISTRIBUTED QUANTITY OF BREAKER RUN USED TO FILL EBS.
- 8) EXPANDED FILL = (UNEXPANDED FILL * 120% FILL FACTOR).
- 9) MASS ORDINATE =AVAILABLE MATERIAL (5) - EXPANDED FILL (8) = BORROW AND SELECT BORROW OR WASTE
- 10) BORROW = MASS ORDINATE (SHORTAGE) (9) - SELECT BORROW

* ADDITIONAL QUANTITIES LISTED ELSEWHERE

*** CY TO TON CONVERSION FACTOR = 1.80 TON/CY

EXCAVATION, HAULING, AND DISPOSAL OF PETROLEUM CONTAMINATED SOIL

CATEGORY	STATION	TO	STATION	LOCATION	205.0501.S	
					TON	REMARKS
0010	85+40	-	86+50	LT	481	PETROLEUM FROM 1' TO 8+' BGS
	86+50	-	87+50	LT	0	PETROLEUM FROM 8' TO 16+' BGS
	86+50	-	87+50	RT	9	PETROLEUM FROM 4' TO 16+' BGS
	105+00	-	105+80	LT/RT	699	PETROLEUM FROM 1' TO 6+' BGS
	113+40	-	114+10	LT	539	PETROLEUM FROM 1' TO 6+' BGS
	114+00	-	115+00	RT	0	PETROLEUM FROM 4' TO 8+' BGS
	TOTAL				1,728	

FINISHING ROADWAY

CATEGORY	PROJECT	213.0100
		2260-07-70 EACH
0010	2260-07-70	1
TOTAL		1



October 20, 2017

Mr. Bryan Bergmann, P. G.
TRC, Inc.
150 North Patrick Blvd., Suite 180
Brookfield, WI 53045

Subject: DNR Concurrence for Excavation Management Plan
STH 11 (Durand Avenue), from Kentucky Street to Kearney Avenue
City of Racine, Racine County, Wisconsin
Bioremediation and Landfill Disposal
WisDOT Construction Project ID No. 2260-07-00

Dear Mr. Bergmann:

The Wisconsin Department of Natural Resources (DNR) reviewed the Excavation Management Plan for the Subject reconstruction project. The DNR understands that the work is to reconstruct STH 11 (Durand Ave.), from Kentucky Street to Kearney Avenue, in the City of Racine, Racine County. Improvements include new sidewalk, street lighting, landscaping, signal replacement, signage, pavement marking, and spot storm sewer. This *Concurrence* letter provides approval for offsite bioremediation and landfill disposal of petroleum and chlorinated solvents contaminated soil to a DNR-licensed landfill facility.

Bioremediation

Laboratory analytical testing of soil provided in the Phase 2.5 Investigation Report identified petroleum contaminated soil within the project limits where concentrations exceeded the respective NR 720 Residual Contaminant Levels (RCLs). Analytical testing of the soil identified gasoline range organics (GRO) at a concentration ranging from 350 milligrams per kilogram (mg/kg) to 2,000 mg/kg, lead at 77 mg/kg, benzene at 610 micrograms per kilogram ($\mu\text{g}/\text{kg}$), naphthalene from 150 $\mu\text{g}/\text{kg}$ to 55,000 $\mu\text{g}/\text{kg}$, 1,2,4 trimethylbenzene from 62 $\mu\text{g}/\text{kg}$ to 2,600 $\mu\text{g}/\text{kg}$, 1,3,5 trimethylbenzene from 25 $\mu\text{g}/\text{kg}$ to 1,000 $\mu\text{g}/\text{kg}$, and xylenes from 32 $\mu\text{g}/\text{kg}$ to 2,500 $\mu\text{g}/\text{kg}$. The DNR concurs that these soils be appropriately field screened, segregated and managed, and transported to a DNR-licensed solid waste landfill for bioremediation. The specific landfill bioremediation areas are:

1. Station 85+40 to 86+50 from reference line to project limits left, from approximately 1 feet to 8 feet below grade, estimated 283 cubic yards or 481 tons.
2. Station 86+50 to 87+50 from reference line to project limits left, approximately 8 feet to 16 feet below grade, estimated 0 cubic yards or 0 tons.
3. Station 86+50 to 87+50 from reference line to project limits right, from approximately 4 feet to 16 feet below grade, estimated 5 cubic yards or 9 tons.
4. Station 105+00 to 105+80 from project limits left to project limits right, from approximately 1 feet to 6 feet below grade, estimated 411 cubic yards or 699 tons.
5. Station 113+40 to 114+10 from reference line to 70 feet left of reference line, from approximately 1 feet to 6 feet below grade, estimated 317 cubic yards or 539 tons.



6. Station 114+00 to 115+00 from reference line to project limits right, from approximately 4 feet to 8 feet below grade, estimated 0 cubic feet or 0 tons.

Landfill

Soil samples provided in the Phase 2.5 Investigation Report identified arsenic contaminated soil at one location within the project at a concentration that exceeds the respective Wis. Admin. § NR 720 RCLs. Contaminant impacts also include tetrachloroethene at a concentration of 5,400 µg/kg and trichloroethene at concentrations from 55 µg/kg to 1,100 µg/kg. The DNR concurs that these soils be appropriately field screened, segregated, managed, and transported to a DNR-licensed facility for landfill disposal. The specific landfill remediation areas are:

1. Station 121+50 to 123+10 from reference line to project limits right, from approximately 1 feet to 8 feet below grade, estimated 638 cubic yards or 1,085 tons.
2. Station 122+00 to 123+10 from reference line to project limits left, from approximately 1 feet to 16 feet below grade, estimated 16 cubic yards or 28 tons.

Contamination Beyond Project Limits

Due to the proximity of known contaminants outside the project limits, a "Notice to Contractor – Contamination Beyond Construction Limits" will be included with the project proposal to make contractors aware that an area beyond the project may contain chlorinated solvents. The contractor should control construction activities in this area to ensure that excavations do not extend beyond the proposed limits. If work does advance into these areas, the DNR concurs that work shall be temporarily stopped while the engineer is notified. The impacted soil area is:

1. Station 13+50 LA to 14+50 LA from reference line LA to 50 feet right of reference line, 3825 Durand Ave.

Other Conditions

The Phase 2.5 investigation suggests that contaminated groundwater may be present within the project limits. If groundwater handling or dewatering is necessary during the project, the work shall be temporarily stopped while the engineer is notified and provides a recommendation. All groundwater shall be evaluated for petroleum and metal compounds, and appropriately disposed to a sanitary sewer with prior approval from City of Racine Wastewater Utility. No accumulated groundwater from dewatering may be returned to the project.

If contaminated soil or waste material is encountered here or elsewhere during the project, work shall be temporarily stopped while the engineer is notified. The DNR also recommends that all construction activities proceed using environmentally sound practices, including proper management and handling of drums and containers, dust suppression, recycling, proper waste disposal, storm water management, and erosion control.

If the project changes from what is currently proposed, or if other environmental issues arise, please contact me at 414-263-8586, or send e-mail to Eileen.Maxwell@Wisconsin.gov for additional review and concurrence. Thank you.

Sincerely,



Eileen Maxwell,
Hydrogeologist
Remediation & Redevelopment

cc: Andrew Malsom – WisDOT, Pamela Mylotta – DNR, Michele Norman – DNR, Mike Thompson – DNR,
Craig Webster – DNR.
SER File

Appendix B: Waste Profiles & Disposal Documentation

Special Waste Profile



Disposal Facility: 3063 Kestrel Hawk WI

Waste Profile #:

Sales Rep #:

I. Generator Information

Generator Name: Wisconsin DOT (WisDOT ID 2260-07-70)

Generator Site Address: STH 11 (Durand Ave.), Kentucky St. to Kearney Ave.

City: Racine

County: Racine

State: Wisconsin

Zip: 53405

State ID/Reg No:

State Approval/Waste Code:

NAICS #:

Generator Mailing Address (if different) 141 NW Barstow

City: Waukesha

County: Waukesha

State: Wisconsin

Zip: 53187

Generator Contact Name: Andrew Malsom

Email: Andrew.Malsom@dot.wi.gov

Phone Number: 262-548-6705

Ext:

Fax Number:

II. Billing Information

Bill To: Zignego Company, Inc.

Contact Name: Jeff Kuhn

Billing Address: W226 N2940 Duplainville Rd.

Email: jkuhn@zignego.com

City: Waukesha

State: Wisconsin

Zip: 53186

Phone: 920-621-8538

III. Waste Stream Information

Name of Waste: Petroleum contaminated soil (daily cover)

Process Generating Waste: Excavation for road construction near gasoline station. Source is leaded and unleaded gasoline, fuel oil, waste oil

Type of Waste: Pollution Control Waste

Physical State: Solid

Method of Shipment: Other

Estimated Volume: 1,238

Volume Type: Tons

Frequency: One-time Event (single project)

Disposal Consideration: Landfill

IV. Representative Sample Certification

No Sample Taken

Sample Taken Type of Sample Grab Sample

Is the representative sample collected to prepare this profile and laboratory analysis, collected in accordance with U.S. EPA 40 CFR 261.20(c) guidelines or equivalent? Yes No

Sample Date: May 3, 2017

Sample ID Numbers or SDS:

GP-11 (2'-4'), GP-11 (6'-8'), GP-14 (2'-4'), GP-14 (6'-8'), GP-25 (2'-4'), GP-25 (6'-8'), GP-43 (2'-4'), GP-43 (6'-8')

Remember to attach Laboratory Analytical Report (and/or Material Safety Data Sheet) including Chain of Custody and required parameters provided for this profile.

V. Physical Characteristics of Waste

Characteristic Components (must equal 100%):

% By Weight (out of 100% - ranges acceptable):

1. Soil	100
2.	
3.	
4.	
5.	

Color: Odor (describe): Does Waste Contain Free Liquids? Yes No % Solids: pH: Flash Point: °F

Attach Laboratory Analytical Report (and/or Material Safety Data Sheet) including Chain of Custody and required parameters provided for this profile.

RCRA Regulatory Questions

- Does this waste or generating process contain regulated concentrations of the following Pesticides and/ or Herbicides: Chlordane, Endrin, Heptachlor (and its epoxides), Lindane, Methoxychlor, Toxaphene, 2,4-D, or 2,4,5-TP Silvex as defined in 40 CFR 261.33? Yes No
- Does this waste contain reactive sulfides (greater than 500 ppm) or reactive cyanide (greater than 250 ppm) [reference 40 CFR 261.23(a)(5)]? Yes No
- Does this waste contain regulated concentrations of Polychlorinated Biphenyls (PCBs) as defined in 40 CFR Part 761? Yes No
- Does this waste contain concentrations of listed hazardous wastes defined in 40 CFR 261.31, 261.32, 261.33, including RCRA F-Listed Solvents? Yes No
- Has this waste been delisted under 40 CFR 260.20 and 260.22? If yes, attach the final decision to delist the waste as published in the Federal Register. Yes No
- Does this waste exhibit a Hazardous Characteristic as defined by Federal and/or State regulations? If Yes, identify the applicable waste code and specify if the waste is hazardous as defined by Federal, State or both?
- Does this waste contain regulated concentrations of 2,3,7,8-Tetrachlorodibenzodioxin (2,3,7,8-TCDD), or any other dioxin as defined in 40 CFR 261.31? Yes No
- Is this a regulated Medical or Infectious Waste as defined by Federal and/or State regulations? Yes No
- Is this a regulated Radioactive Waste as defined by Federal and/or State regulations? Yes No
- Is this a solid waste that is not a hazardous waste in accordance with 40 CFR 261.4(b)? If yes, please provide the corresponding regulatory citation.

Republic Services Waste Handling Questions

- Does this waste generate heat or react when contacted with water/moisture? Yes No
- Does the waste contain sulfur or sulfur by-products? Yes No
- Is this waste generated at a State or Federal Superfund cleanup site subject to regulation under CERCLA? Yes No
- 4a. Is this waste from a TSD facility, TSD-like facility or consolidator (i.e. multiple wastes/multiple generators)? Yes No
- 4b. If yes to the above question, please provide clarification.

Special Waste Profile



VI. Certification

I hereby certify that to the best of my knowledge and belief, the information contained herein is a true, complete and accurate description of the waste material being offered for disposal and all known or suspected hazards have been disclosed. All Analytical Results/Material Safety Data Sheets submitted are truthful and complete and are representative of the waste.

I further certify that by utilizing this profile, neither myself nor any other employee of the company will deliver for disposal or attempt to deliver for disposal any waste which is classified as toxic waste, hazardous waste or infectious waste, or any other waste material this facility is prohibited from accepting by law. I shall immediately give written notice of any change or condition pertaining to the waste not provided herein. Our company hereby agrees to fully indemnify this disposal facility against any damages resulting from this certification being inaccurate or untrue.

I understand that attaching an electronic signature, I am signing this document, consent to complete this transaction and receive all related communication electronically, and agree this document will be binding as though I had physically signed it. A printout of this document may be accepted with the same authority as the original.

If electronic signature is preferred, please submit completed (unsigned) form to your Special Waste Coordinator or Special Waste Sales Executive to initiate signature process.

I further certify that the company has not altered the form or content of this profile sheet as provided by Republic Services.

Andrew Malsom

Environmental Engineer

Wisconsin DOT

Authorized Representative Name
(Printed)

Title
(Printed)

Company Name



Representative Signature

February 3, 2020

Date

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Chicago
2417 Bond Street
University Park, IL 60484
Tel: (708)534-5200

TestAmerica Job ID: 500-127505-1

Client Project/Site: STH 11 Kentucky to Kearney - 275788

For:
TRC Environmental Corporation.
150 N. Patrick Blvd.
Suite 180
Brookfield, Wisconsin 53045

Attn: Mr. Bryan Bergmann



Authorized for release by:
5/17/2017 6:05:10 PM

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.

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15
- 16



Table of Contents

Cover Page	1
Table of Contents	2
Case Narrative	3
Detection Summary	4
Method Summary	8
Sample Summary	9
Client Sample Results	10
Subcontract Data	35
Definitions	36
QC Association	37
Surrogate Summary	44
QC Sample Results	47
Chronicle	59
Certification Summary	71
Chain of Custody	72
Receipt Checklists	80

Case Narrative

Client: TRC Environmental Corporation.
Project/Site: STH 11 Kentucky to Kearney - 275788

TestAmerica Job ID: 500-127505-1

Job ID: 500-127505-1

Laboratory: TestAmerica Chicago

Narrative

Job Narrative 500-127505-1

Comments

No additional comments.

Receipt

The samples were received on 5/3/2017 9:00 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 2 coolers at receipt time were 3.3° C and 3.9° C.

GC/MS VOA

Method(s) 8260B: The laboratory control sample (LCS) for the soil preparation batch 384046 recovered outside control limits for 12 analytes. These analytes were biased high in the preparation batch LCS, but were within limits in the analytical batch LCS; therefore, the data has been reported.

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

GC/MS Semi VOA

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

GC VOA

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

GC Semi VOA

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

Metals

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

General Chemistry

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

Subcontract non-Sister

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

Organic Prep

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

VOA Prep

Method(s) WI GRO: Methanol was added to achieve a 1:1 ratio. GP-01 (6-8) (500-127505-2), GP-02 (2-4) (500-127505-3), GP-02 (6-8) (500-127505-4), GP-02 (14-16) (500-127505-5), GP-06 (2-4) (500-127505-13), GP-06 (6-8) (500-127505-14) and GP-07 (2-4) (500-127505-15)

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

Subcontract Work

Method % Chlorine: This method was subcontracted to SF/Eurofins Analytical Laboratories. The subcontract laboratory certification is different from that of the facility issuing the final report.

Detection Summary

Client: TRC Environmental Corporation.
Project/Site: STH 11 Kentucky to Kearney - 275788

TestAmerica Job ID: 500-127505-1

Client Sample ID: GP-01 (0-2)

Lab Sample ID: 500-127505-1

No Detections.

Client Sample ID: GP-01 (6-8)

Lab Sample ID: 500-127505-2

No Detections.

Client Sample ID: GP-02 (2-4)

Lab Sample ID: 500-127505-3

No Detections.

Client Sample ID: GP-02 (6-8)

Lab Sample ID: 500-127505-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Naphthalene	2500		330	160	ug/Kg	1	☒	WDNR	Total/NA

Client Sample ID: GP-02 (14-16)

Lab Sample ID: 500-127505-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Naphthalene	270	J	280	130	ug/Kg	1	☒	WDNR	Total/NA

Client Sample ID: GP-03 (2-4)

Lab Sample ID: 500-127505-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	37		0.58	0.27	mg/Kg	1	☒	6010B	Total/NA

Client Sample ID: GP-03 (6-8)

Lab Sample ID: 500-127505-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	8.9		0.52	0.24	mg/Kg	1	☒	6010B	Total/NA

Client Sample ID: GP-04 (2-4)

Lab Sample ID: 500-127505-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	9.4		0.50	0.23	mg/Kg	1	☒	6010B	Total/NA

Client Sample ID: GP-04 (6-8)

Lab Sample ID: 500-127505-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Tetrachloroethene	540		66	24	ug/Kg	50	☒	8260B	Total/NA
Lead	11		0.53	0.24	mg/Kg	1	☒	6010B	Total/NA

Client Sample ID: GP-05 (2-4)

Lab Sample ID: 500-127505-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	20		0.52	0.24	mg/Kg	1	☒	6010B	Total/NA

Client Sample ID: GP-05 (6-8)

Lab Sample ID: 500-127505-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	9.6		0.52	0.24	mg/Kg	1	☒	6010B	Total/NA
Barium	0.34	J	0.50	0.050	mg/L	1		6010B	TCLP
Cadmium	0.0020	J	0.0050	0.0020	mg/L	1		6010B	TCLP

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: TRC Environmental Corporation.
Project/Site: STH 11 Kentucky to Kearney - 275788

TestAmerica Job ID: 500-127505-1

Client Sample ID: GP-05 (6-8) (Continued)

Lab Sample ID: 500-127505-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	0.014	J	0.050	0.0075	mg/L	1		6010B	TCLP
Nickel	0.014	J	0.025	0.010	mg/L	1		6010B	TCLP
Flashpoint	>176		40.0	40.0	Degrees F	1		1010	Total/NA
Sulfide	6.7	J	9.8	4.6	mg/Kg	1		9034	Total/NA
pH	9.0		0.2	0.2	SU	1		9045C	Total/NA
Paint Filter	PASS				No Unit	1		9095A	Total/NA
Specific Gravity	3.1404				NONE	1		SM 2710F	Total/NA

Client Sample ID: GP-05 (14-16)

Lab Sample ID: 500-127505-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	14		0.50	0.23	mg/Kg	1	☼	6010B	Total/NA

Client Sample ID: GP-06 (2-4)

Lab Sample ID: 500-127505-13

No Detections.

Client Sample ID: GP-06 (6-8)

Lab Sample ID: 500-127505-14

No Detections.

Client Sample ID: GP-07 (2-4)

Lab Sample ID: 500-127505-15

No Detections.

Client Sample ID: GP-07 (6-8)

Lab Sample ID: 500-127505-16

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
WI Diesel Range Organics (C10-C28)	2.2	J	4.5	1.8	mg/Kg	1	☼	WI-DRO	Total/NA
Barium	0.38	J	0.50	0.050	mg/L	1		6010B	TCLP
Cadmium	0.0027	J	0.0050	0.0020	mg/L	1		6010B	TCLP
Flashpoint	>176		40.0	40.0	Degrees F	1		1010	Total/NA
Sulfide	8.8	J	10	4.7	mg/Kg	1		9034	Total/NA
pH	9.1		0.2	0.2	SU	1		9045C	Total/NA
Paint Filter	PASS				No Unit	1		9095A	Total/NA
Specific Gravity	2.1987				NONE	1		SM 2710F	Total/NA

Client Sample ID: GP-07 (14-16)

Lab Sample ID: 500-127505-17

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Naphthalene	270	J	280	130	ug/Kg	1	☼	WDNR	Total/NA
1,3,5-Trimethylbenzene	23	J	28	17	ug/Kg	1	☼	WDNR	Total/NA
Xylenes, Total	38	J	84	34	ug/Kg	1	☼	WDNR	Total/NA

Client Sample ID: GP-08 (2-4)

Lab Sample ID: 500-127505-18

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	9.9		0.51	0.24	mg/Kg	1	☼	6010B	Total/NA

Client Sample ID: GP-08 (6-8)

Lab Sample ID: 500-127505-19

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: TRC Environmental Corporation.
Project/Site: STH 11 Kentucky to Kearney - 275788

TestAmerica Job ID: 500-127505-1

Client Sample ID: GP-08 (6-8) (Continued)

Lab Sample ID: 500-127505-19

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	9.3		0.53	0.24	mg/Kg	1	☒	6010B	Total/NA

Client Sample ID: GP-09 (2-4)

Lab Sample ID: 500-127505-20

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Toluene	36		30	21	ug/Kg	1	☒	WDNR	Total/NA
Lead	13		0.54	0.25	mg/Kg	1	☒	6010B	Total/NA

Client Sample ID: GP-09 (6-8)

Lab Sample ID: 500-127505-21

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,2,4-Trimethylbenzene	20	J	29	17	ug/Kg	1	☒	WDNR	Total/NA
Lead	8.0		0.55	0.25	mg/Kg	1	☒	6010B	Total/NA

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

Lab Sample ID: 500-127505-22

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	14		0.56	0.26	mg/Kg	1	☒	6010B	Total/NA

Client Sample ID: GP-10 (6-8)

Lab Sample ID: 500-127505-23

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	9.9		0.53	0.24	mg/Kg	1	☒	6010B	Total/NA

Client Sample ID: GP-11 (2-4)

Lab Sample ID: 500-127505-24

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Ethylbenzene	60		28	22	ug/Kg	1	☒	WDNR	Total/NA
1,2,4-Trimethylbenzene	31		28	17	ug/Kg	1	☒	WDNR	Total/NA
Xylenes, Total	110		85	34	ug/Kg	1	☒	WDNR	Total/NA
Lead	63		0.49	0.23	mg/Kg	1	☒	6010B	Total/NA

Client Sample ID: GP-11 (6-8)

Lab Sample ID: 500-127505-25

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
WI Diesel Range Organics (C10-C28)	4.9		4.4	1.8	mg/Kg	1	☒	WI-DRO	Total/NA
Lead	11		0.52	0.24	mg/Kg	1	☒	6010B	Total/NA
Barium	0.15	J	0.50	0.050	mg/L	1		6010B	TCLP
Cadmium	0.0040	J	0.0050	0.0020	mg/L	1		6010B	TCLP
Copper	0.011	J	0.025	0.010	mg/L	1		6010B	TCLP
Lead	0.034	J	0.050	0.0075	mg/L	1		6010B	TCLP
Nickel	0.024	J	0.025	0.010	mg/L	1		6010B	TCLP
Zinc	0.030	J	0.10	0.020	mg/L	1		6010B	TCLP
Flashpoint	>176		40.0	40.0	Degrees F	1		1010	Total/NA
Sulfide	6.2	J	9.7	4.6	mg/Kg	1		9034	Total/NA
pH	8.8		0.2	0.2	SU	1		9045C	Total/NA
Paint Filter	PASS				No Unit	1		9095A	Total/NA
Specific Gravity	1.1838				NONE	1		SM 2710F	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: TRC Environmental Corporation.
Project/Site: STH 11 Kentucky to Kearney - 275788

TestAmerica Job ID: 500-127505-1

Client Sample ID: Trip Blank

Lab Sample ID: 500-127505-26

No Detections.

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15
- 16

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Method Summary

Client: TRC Environmental Corporation.
Project/Site: STH 11 Kentucky to Kearney - 275788

TestAmerica Job ID: 500-127505-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL CHI
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	TAL CHI
WDNR	Wisconsin - Gasoline Range Organics (GC)	WI-GRO	TAL NSH
WI-GRO	Wisconsin - Gasoline Range Organics (GC)	WI-GRO	TAL CHI
8082A	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	TAL CHI
WI-DRO	Wisconsin - Diesel Range Organics (GC)	WI-DRO	TAL CHI
6010B	Metals (ICP)	SW846	TAL CHI
7470A	Mercury (CVAA)	SW846	TAL CHI
1010	Ignitability, Pensky-Martens Closed-Cup Method	SW846	TAL CHI
9014	Cyanide	SW846	TAL CHI
9034	Sulfide, Acid soluble and Insoluble (Titrimetric)	SW846	TAL CHI
9045C	pH	SW846	TAL CHI
9095A	Paint Filter	SW846	TAL CHI
Moisture	Percent Moisture	EPA	TAL NSH
Moisture	Percent Moisture	EPA	TAL CHI
SM 2710F	Specific Gravity, Density	SM	TAL CHI
% Chlorine	General Sub Contract Method	NONE	SFAL

Protocol References:

EPA = US Environmental Protection Agency

NONE = NONE

SM = "Standard Methods For The Examination Of Water And Wastewater",

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

WI-DRO = "Modified DRO: Method For Determining Diesel Range Organics", Wisconsin DNR, Publ-SW-141, September, 1995.

WI-GRO = "Modified GRO: Method For Determining Gasoline Range Organics", Wisconsin DNR, Publ-SW-140, September, 1995.

Laboratory References:

SFAL = SF Analytical Laboratories, 2345 South 170th Street, New Berlin, WI 53151

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

TAL NSH = TestAmerica Nashville, 2960 Foster Creighton Drive, Nashville, TN 37204, TEL (615)726-0177

Sample Summary

Client: TRC Environmental Corporation.
Project/Site: STH 11 Kentucky to Kearney - 275788

TestAmerica Job ID: 500-127505-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-127505-1	GP-01 (0-2)	Solid	05/01/17 08:35	05/03/17 09:00
500-127505-2	GP-01 (6-8)	Solid	05/01/17 08:45	05/03/17 09:00
500-127505-3	GP-02 (2-4)	Solid	05/01/17 09:15	05/03/17 09:00
500-127505-4	GP-02 (6-8)	Solid	05/01/17 09:25	05/03/17 09:00
500-127505-5	GP-02 (14-16)	Solid	05/01/17 09:30	05/03/17 09:00
500-127505-6	GP-03 (2-4)	Solid	05/01/17 10:10	05/03/17 09:00
500-127505-7	GP-03 (6-8)	Solid	05/01/17 10:15	05/03/17 09:00
500-127505-8	GP-04 (2-4)	Solid	05/01/17 10:35	05/03/17 09:00
500-127505-9	GP-04 (6-8)	Solid	05/01/17 10:40	05/03/17 09:00
500-127505-10	GP-05 (2-4)	Solid	05/01/17 11:00	05/03/17 09:00
500-127505-11	GP-05 (6-8)	Solid	05/01/17 11:10	05/03/17 09:00
500-127505-12	GP-05 (14-16)	Solid	05/01/17 11:20	05/03/17 09:00
500-127505-13	GP-06 (2-4)	Solid	05/01/17 12:00	05/03/17 09:00
500-127505-14	GP-06 (6-8)	Solid	05/01/17 12:05	05/03/17 09:00
500-127505-15	GP-07 (2-4)	Solid	05/01/17 12:30	05/03/17 09:00
500-127505-16	GP-07 (6-8)	Solid	05/01/17 12:35	05/03/17 09:00
500-127505-17	GP-07 (14-16)	Solid	05/01/17 12:50	05/03/17 09:00
500-127505-18	GP-08 (2-4)	Solid	05/01/17 13:45	05/03/17 09:00
500-127505-19	GP-08 (6-8)	Solid	05/01/17 13:50	05/03/17 09:00
500-127505-20	GP-09 (2-4)	Solid	05/01/17 14:20	05/03/17 09:00
500-127505-21	GP-09 (6-8)	Solid	05/01/17 14:25	05/03/17 09:00
500-127505-22	GP-10 (2-4)	Solid	05/01/17 14:35	05/03/17 09:00
500-127505-23	GP-10 (6-8)	Solid	05/01/17 14:40	05/03/17 09:00
500-127505-24	GP-11 (2-4)	Solid	05/01/17 15:00	05/03/17 09:00
500-127505-25	GP-11 (6-8)	Solid	05/01/17 15:05	05/03/17 09:00
500-127505-26	Trip Blank	Solid	05/01/17 00:00	05/03/17 09:00

Client Sample Results

Client: TRC Environmental Corporation.
Project/Site: STH 11 Kentucky to Kearney - 275788

TestAmerica Job ID: 500-127505-1

Client Sample ID: GP-01 (0-2)

Date Collected: 05/01/17 08:35

Date Received: 05/03/17 09:00

Lab Sample ID: 500-127505-1

Matrix: Solid

Percent Solids: 80.5

Method: WDNR - Wisconsin - Gasoline Range Organics (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<20		27	20	ug/Kg	☼	05/05/17 15:52	05/09/17 23:35	1
Ethylbenzene	<21		27	21	ug/Kg	☼	05/05/17 15:52	05/09/17 23:35	1
Methyl tert-butyl ether	<13		27	13	ug/Kg	☼	05/05/17 15:52	05/09/17 23:35	1
Naphthalene	<130		270	130	ug/Kg	☼	05/05/17 15:52	05/09/17 23:35	1
Toluene	<19		27	19	ug/Kg	☼	05/05/17 15:52	05/09/17 23:35	1
1,2,4-Trimethylbenzene	<16		27	16	ug/Kg	☼	05/05/17 15:52	05/09/17 23:35	1
1,3,5-Trimethylbenzene	<16		27	16	ug/Kg	☼	05/05/17 15:52	05/09/17 23:35	1
Xylenes, Total	<33		82	33	ug/Kg	☼	05/05/17 15:52	05/09/17 23:35	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>a,a,a-Trifluorotoluene</i>	87		80 - 120	05/05/17 15:52	05/09/17 23:35	1

Client Sample ID: GP-01 (6-8)

Date Collected: 05/01/17 08:45

Date Received: 05/03/17 09:00

Lab Sample ID: 500-127505-2

Matrix: Solid

Percent Solids: 85.1

Method: WDNR - Wisconsin - Gasoline Range Organics (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<21		29	21	ug/Kg	☼	05/05/17 15:52	05/10/17 00:02	1
Ethylbenzene	<22		29	22	ug/Kg	☼	05/05/17 15:52	05/10/17 00:02	1
Methyl tert-butyl ether	<14		29	14	ug/Kg	☼	05/05/17 15:52	05/10/17 00:02	1
Naphthalene	<140		290	140	ug/Kg	☼	05/05/17 15:52	05/10/17 00:02	1
Toluene	<20		29	20	ug/Kg	☼	05/05/17 15:52	05/10/17 00:02	1
1,2,4-Trimethylbenzene	<17		29	17	ug/Kg	☼	05/05/17 15:52	05/10/17 00:02	1
1,3,5-Trimethylbenzene	<17		29	17	ug/Kg	☼	05/05/17 15:52	05/10/17 00:02	1
Xylenes, Total	<35		87	35	ug/Kg	☼	05/05/17 15:52	05/10/17 00:02	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>a,a,a-Trifluorotoluene</i>	88		80 - 120	05/05/17 15:52	05/10/17 00:02	1

Client Sample ID: GP-02 (2-4)

Date Collected: 05/01/17 09:15

Date Received: 05/03/17 09:00

Lab Sample ID: 500-127505-3

Matrix: Solid

Percent Solids: 83.1

Method: WDNR - Wisconsin - Gasoline Range Organics (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<21		30	21	ug/Kg	☼	05/05/17 15:52	05/10/17 00:28	1
Ethylbenzene	<23		30	23	ug/Kg	☼	05/05/17 15:52	05/10/17 00:28	1
Methyl tert-butyl ether	<14		30	14	ug/Kg	☼	05/05/17 15:52	05/10/17 00:28	1
Naphthalene	<140		300	140	ug/Kg	☼	05/05/17 15:52	05/10/17 00:28	1
Toluene	<20		30	20	ug/Kg	☼	05/05/17 15:52	05/10/17 00:28	1
1,2,4-Trimethylbenzene	<18		30	18	ug/Kg	☼	05/05/17 15:52	05/10/17 00:28	1
1,3,5-Trimethylbenzene	<18		30	18	ug/Kg	☼	05/05/17 15:52	05/10/17 00:28	1
Xylenes, Total	<36		89	36	ug/Kg	☼	05/05/17 15:52	05/10/17 00:28	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>a,a,a-Trifluorotoluene</i>	91		80 - 120	05/05/17 15:52	05/10/17 00:28	1

TestAmerica Chicago

Client Sample Results

Client: TRC Environmental Corporation.
Project/Site: STH 11 Kentucky to Kearney - 275788

TestAmerica Job ID: 500-127505-1

Client Sample ID: GP-02 (6-8)

Date Collected: 05/01/17 09:25

Date Received: 05/03/17 09:00

Lab Sample ID: 500-127505-4

Matrix: Solid

Percent Solids: 78.1

Method: WDNR - Wisconsin - Gasoline Range Organics (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<24		33	24	ug/Kg	☼	05/05/17 15:52	05/10/17 00:55	1
Ethylbenzene	<25		33	25	ug/Kg	☼	05/05/17 15:52	05/10/17 00:55	1
Methyl tert-butyl ether	<16		33	16	ug/Kg	☼	05/05/17 15:52	05/10/17 00:55	1
Naphthalene	2500		330	160	ug/Kg	☼	05/05/17 15:52	05/10/17 00:55	1
Toluene	<23		33	23	ug/Kg	☼	05/05/17 15:52	05/10/17 00:55	1
1,2,4-Trimethylbenzene	<20		33	20	ug/Kg	☼	05/05/17 15:52	05/10/17 00:55	1
1,3,5-Trimethylbenzene	<20		33	20	ug/Kg	☼	05/05/17 15:52	05/10/17 00:55	1
Xylenes, Total	<40		100	40	ug/Kg	☼	05/05/17 15:52	05/10/17 00:55	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>a,a,a-Trifluorotoluene</i>	89		80 - 120				05/05/17 15:52	05/10/17 00:55	1

Client Sample ID: GP-02 (14-16)

Date Collected: 05/01/17 09:30

Date Received: 05/03/17 09:00

Lab Sample ID: 500-127505-5

Matrix: Solid

Percent Solids: 86.8

Method: WDNR - Wisconsin - Gasoline Range Organics (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<20		28	20	ug/Kg	☼	05/05/17 15:52	05/10/17 08:30	1
Ethylbenzene	<21		28	21	ug/Kg	☼	05/05/17 15:52	05/10/17 08:30	1
Methyl tert-butyl ether	<13		28	13	ug/Kg	☼	05/05/17 15:52	05/10/17 08:30	1
Naphthalene	270	J	280	130	ug/Kg	☼	05/05/17 15:52	05/10/17 08:30	1
Toluene	<19		28	19	ug/Kg	☼	05/05/17 15:52	05/10/17 08:30	1
1,2,4-Trimethylbenzene	<17		28	17	ug/Kg	☼	05/05/17 15:52	05/10/17 08:30	1
1,3,5-Trimethylbenzene	<17		28	17	ug/Kg	☼	05/05/17 15:52	05/10/17 08:30	1
Xylenes, Total	<34		84	34	ug/Kg	☼	05/05/17 15:52	05/10/17 08:30	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>a,a,a-Trifluorotoluene</i>	92		80 - 120				05/05/17 15:52	05/10/17 08:30	1

Client Sample ID: GP-03 (2-4)

Date Collected: 05/01/17 10:10

Date Received: 05/03/17 09:00

Lab Sample ID: 500-127505-6

Matrix: Solid

Percent Solids: 81.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<34		74	34	ug/Kg	☼	05/01/17 10:10	05/15/17 12:30	50
1,1,1-Trichloroethane	<28		74	28	ug/Kg	☼	05/01/17 10:10	05/15/17 12:30	50
1,1,2,2-Tetrachloroethane	<29		74	29	ug/Kg	☼	05/01/17 10:10	05/15/17 12:30	50
1,1,2-Trichloroethane	<26		74	26	ug/Kg	☼	05/01/17 10:10	05/15/17 12:30	50
1,1-Dichloroethane	<30	*	74	30	ug/Kg	☼	05/01/17 10:10	05/15/17 12:30	50
1,1-Dichloroethene	<29	*	74	29	ug/Kg	☼	05/01/17 10:10	05/15/17 12:30	50
1,1-Dichloropropene	<22		74	22	ug/Kg	☼	05/01/17 10:10	05/15/17 12:30	50
1,2,3-Trichlorobenzene	<34		74	34	ug/Kg	☼	05/01/17 10:10	05/15/17 12:30	50
1,2,3-Trichloropropane	<30		74	30	ug/Kg	☼	05/01/17 10:10	05/15/17 12:30	50
1,2,4-Trichlorobenzene	<25		74	25	ug/Kg	☼	05/01/17 10:10	05/15/17 12:30	50
1,2,4-Trimethylbenzene	<26		74	26	ug/Kg	☼	05/01/17 10:10	05/15/17 12:30	50
1,2-Dibromo-3-Chloropropane	<150		370	150	ug/Kg	☼	05/01/17 10:10	05/15/17 12:30	50
1,2-Dibromoethane	<28		74	28	ug/Kg	☼	05/01/17 10:10	05/15/17 12:30	50
1,2-Dichlorobenzene	<25		74	25	ug/Kg	☼	05/01/17 10:10	05/15/17 12:30	50

TestAmerica Chicago

Client Sample Results

Client: TRC Environmental Corporation.
Project/Site: STH 11 Kentucky to Kearney - 275788

TestAmerica Job ID: 500-127505-1

Client Sample ID: GP-03 (2-4)

Lab Sample ID: 500-127505-6

Date Collected: 05/01/17 10:10

Matrix: Solid

Date Received: 05/03/17 09:00

Percent Solids: 81.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane	<29		74	29	ug/Kg	☼	05/01/17 10:10	05/15/17 12:30	50
1,2-Dichloropropane	<32		74	32	ug/Kg	☼	05/01/17 10:10	05/15/17 12:30	50
1,3,5-Trimethylbenzene	<28		74	28	ug/Kg	☼	05/01/17 10:10	05/15/17 12:30	50
1,3-Dichlorobenzene	<29		74	29	ug/Kg	☼	05/01/17 10:10	05/15/17 12:30	50
1,3-Dichloropropane	<27		74	27	ug/Kg	☼	05/01/17 10:10	05/15/17 12:30	50
1,4-Dichlorobenzene	<27		74	27	ug/Kg	☼	05/01/17 10:10	05/15/17 12:30	50
2,2-Dichloropropane	<33		74	33	ug/Kg	☼	05/01/17 10:10	05/15/17 12:30	50
2-Chlorotoluene	<23		74	23	ug/Kg	☼	05/01/17 10:10	05/15/17 12:30	50
4-Chlorotoluene	<26		74	26	ug/Kg	☼	05/01/17 10:10	05/15/17 12:30	50
Benzene	<11		18	11	ug/Kg	☼	05/01/17 10:10	05/15/17 12:30	50
Bromobenzene	<26		74	26	ug/Kg	☼	05/01/17 10:10	05/15/17 12:30	50
Bromochloromethane	<32 *		74	32	ug/Kg	☼	05/01/17 10:10	05/15/17 12:30	50
Bromodichloromethane	<27		74	27	ug/Kg	☼	05/01/17 10:10	05/15/17 12:30	50
Bromoform	<36		74	36	ug/Kg	☼	05/01/17 10:10	05/15/17 12:30	50
Bromomethane	<59		150	59	ug/Kg	☼	05/01/17 10:10	05/15/17 12:30	50
Carbon tetrachloride	<28		74	28	ug/Kg	☼	05/01/17 10:10	05/15/17 12:30	50
Chlorobenzene	<28		74	28	ug/Kg	☼	05/01/17 10:10	05/15/17 12:30	50
Chloroethane	<37		74	37	ug/Kg	☼	05/01/17 10:10	05/15/17 12:30	50
Chloroform	<27 *		150	27	ug/Kg	☼	05/01/17 10:10	05/15/17 12:30	50
Chloromethane	<24		74	24	ug/Kg	☼	05/01/17 10:10	05/15/17 12:30	50
cis-1,2-Dichloroethene	<30 *		74	30	ug/Kg	☼	05/01/17 10:10	05/15/17 12:30	50
cis-1,3-Dichloropropene	<31		74	31	ug/Kg	☼	05/01/17 10:10	05/15/17 12:30	50
Dibromochloromethane	<36		74	36	ug/Kg	☼	05/01/17 10:10	05/15/17 12:30	50
Dibromomethane	<20		74	20	ug/Kg	☼	05/01/17 10:10	05/15/17 12:30	50
Dichlorodifluoromethane	<50		150	50	ug/Kg	☼	05/01/17 10:10	05/15/17 12:30	50
Ethylbenzene	<13		18	13	ug/Kg	☼	05/01/17 10:10	05/15/17 12:30	50
Hexachlorobutadiene	<33		74	33	ug/Kg	☼	05/01/17 10:10	05/15/17 12:30	50
Isopropyl ether	<20		74	20	ug/Kg	☼	05/01/17 10:10	05/15/17 12:30	50
Isopropylbenzene	<28		74	28	ug/Kg	☼	05/01/17 10:10	05/15/17 12:30	50
Methyl tert-butyl ether	<29 *		74	29	ug/Kg	☼	05/01/17 10:10	05/15/17 12:30	50
Methylene Chloride	<120 *		370	120	ug/Kg	☼	05/01/17 10:10	05/15/17 12:30	50
Naphthalene	<25 *		74	25	ug/Kg	☼	05/01/17 10:10	05/15/17 12:30	50
n-Butylbenzene	<29		74	29	ug/Kg	☼	05/01/17 10:10	05/15/17 12:30	50
N-Propylbenzene	<30		74	30	ug/Kg	☼	05/01/17 10:10	05/15/17 12:30	50
p-Isopropyltoluene	<27		74	27	ug/Kg	☼	05/01/17 10:10	05/15/17 12:30	50
sec-Butylbenzene	<29		74	29	ug/Kg	☼	05/01/17 10:10	05/15/17 12:30	50
Styrene	<28 *		74	28	ug/Kg	☼	05/01/17 10:10	05/15/17 12:30	50
tert-Butylbenzene	<29		74	29	ug/Kg	☼	05/01/17 10:10	05/15/17 12:30	50
Tetrachloroethene	<27		74	27	ug/Kg	☼	05/01/17 10:10	05/15/17 12:30	50
Toluene	<11		18	11	ug/Kg	☼	05/01/17 10:10	05/15/17 12:30	50
trans-1,2-Dichloroethene	<26 *		74	26	ug/Kg	☼	05/01/17 10:10	05/15/17 12:30	50
trans-1,3-Dichloropropene	<27		74	27	ug/Kg	☼	05/01/17 10:10	05/15/17 12:30	50
Trichloroethene	<12		37	12	ug/Kg	☼	05/01/17 10:10	05/15/17 12:30	50
Trichlorofluoromethane	<32 *		74	32	ug/Kg	☼	05/01/17 10:10	05/15/17 12:30	50
Vinyl chloride	<19 *		37	19	ug/Kg	☼	05/01/17 10:10	05/15/17 12:30	50
Xylenes, Total	<16		37	16	ug/Kg	☼	05/01/17 10:10	05/15/17 12:30	50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	97		75 - 126	05/01/17 10:10	05/15/17 12:30	50
4-Bromofluorobenzene (Surr)	89		72 - 124	05/01/17 10:10	05/15/17 12:30	50

TestAmerica Chicago

Client Sample Results

Client: TRC Environmental Corporation.
Project/Site: STH 11 Kentucky to Kearney - 275788

TestAmerica Job ID: 500-127505-1

Client Sample ID: GP-03 (2-4)

Date Collected: 05/01/17 10:10

Date Received: 05/03/17 09:00

Lab Sample ID: 500-127505-6

Matrix: Solid

Percent Solids: 81.5

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane	101		75 - 120	05/01/17 10:10	05/15/17 12:30	50
Toluene-d8 (Surr)	94		75 - 120	05/01/17 10:10	05/15/17 12:30	50

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	37		0.58	0.27	mg/Kg	☼	05/05/17 15:07	05/11/17 21:48	1

Client Sample ID: GP-03 (6-8)

Date Collected: 05/01/17 10:15

Date Received: 05/03/17 09:00

Lab Sample ID: 500-127505-7

Matrix: Solid

Percent Solids: 87.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<30		65	30	ug/Kg	☼	05/01/17 10:15	05/15/17 12:59	50
1,1,1-Trichloroethane	<25		65	25	ug/Kg	☼	05/01/17 10:15	05/15/17 12:59	50
1,1,2,2-Tetrachloroethane	<26		65	26	ug/Kg	☼	05/01/17 10:15	05/15/17 12:59	50
1,1,2-Trichloroethane	<23		65	23	ug/Kg	☼	05/01/17 10:15	05/15/17 12:59	50
1,1-Dichloroethane	<27 *		65	27	ug/Kg	☼	05/01/17 10:15	05/15/17 12:59	50
1,1-Dichloroethene	<26 *		65	26	ug/Kg	☼	05/01/17 10:15	05/15/17 12:59	50
1,1-Dichloropropene	<20		65	20	ug/Kg	☼	05/01/17 10:15	05/15/17 12:59	50
1,2,3-Trichlorobenzene	<30		65	30	ug/Kg	☼	05/01/17 10:15	05/15/17 12:59	50
1,2,3-Trichloropropane	<27		65	27	ug/Kg	☼	05/01/17 10:15	05/15/17 12:59	50
1,2,4-Trichlorobenzene	<22		65	22	ug/Kg	☼	05/01/17 10:15	05/15/17 12:59	50
1,2,4-Trimethylbenzene	<23		65	23	ug/Kg	☼	05/01/17 10:15	05/15/17 12:59	50
1,2-Dibromo-3-Chloropropane	<130		330	130	ug/Kg	☼	05/01/17 10:15	05/15/17 12:59	50
1,2-Dibromoethane	<25		65	25	ug/Kg	☼	05/01/17 10:15	05/15/17 12:59	50
1,2-Dichlorobenzene	<22		65	22	ug/Kg	☼	05/01/17 10:15	05/15/17 12:59	50
1,2-Dichloroethane	<26		65	26	ug/Kg	☼	05/01/17 10:15	05/15/17 12:59	50
1,2-Dichloropropane	<28		65	28	ug/Kg	☼	05/01/17 10:15	05/15/17 12:59	50
1,3,5-Trimethylbenzene	<25		65	25	ug/Kg	☼	05/01/17 10:15	05/15/17 12:59	50
1,3-Dichlorobenzene	<26		65	26	ug/Kg	☼	05/01/17 10:15	05/15/17 12:59	50
1,3-Dichloropropane	<24		65	24	ug/Kg	☼	05/01/17 10:15	05/15/17 12:59	50
1,4-Dichlorobenzene	<24		65	24	ug/Kg	☼	05/01/17 10:15	05/15/17 12:59	50
2,2-Dichloropropane	<29		65	29	ug/Kg	☼	05/01/17 10:15	05/15/17 12:59	50
2-Chlorotoluene	<21		65	21	ug/Kg	☼	05/01/17 10:15	05/15/17 12:59	50
4-Chlorotoluene	<23		65	23	ug/Kg	☼	05/01/17 10:15	05/15/17 12:59	50
Benzene	<9.6		16	9.6	ug/Kg	☼	05/01/17 10:15	05/15/17 12:59	50
Bromobenzene	<23		65	23	ug/Kg	☼	05/01/17 10:15	05/15/17 12:59	50
Bromochloromethane	<28 *		65	28	ug/Kg	☼	05/01/17 10:15	05/15/17 12:59	50
Bromodichloromethane	<24		65	24	ug/Kg	☼	05/01/17 10:15	05/15/17 12:59	50
Bromoform	<32		65	32	ug/Kg	☼	05/01/17 10:15	05/15/17 12:59	50
Bromomethane	<52		130	52	ug/Kg	☼	05/01/17 10:15	05/15/17 12:59	50
Carbon tetrachloride	<25		65	25	ug/Kg	☼	05/01/17 10:15	05/15/17 12:59	50
Chlorobenzene	<25		65	25	ug/Kg	☼	05/01/17 10:15	05/15/17 12:59	50
Chloroethane	<33		65	33	ug/Kg	☼	05/01/17 10:15	05/15/17 12:59	50
Chloroform	<24 *		130	24	ug/Kg	☼	05/01/17 10:15	05/15/17 12:59	50
Chloromethane	<21		65	21	ug/Kg	☼	05/01/17 10:15	05/15/17 12:59	50
cis-1,2-Dichloroethene	<27 *		65	27	ug/Kg	☼	05/01/17 10:15	05/15/17 12:59	50
cis-1,3-Dichloropropene	<27		65	27	ug/Kg	☼	05/01/17 10:15	05/15/17 12:59	50

TestAmerica Chicago

Client Sample Results

Client: TRC Environmental Corporation.
Project/Site: STH 11 Kentucky to Kearney - 275788

TestAmerica Job ID: 500-127505-1

Client Sample ID: GP-03 (6-8)

Date Collected: 05/01/17 10:15

Date Received: 05/03/17 09:00

Lab Sample ID: 500-127505-7

Matrix: Solid

Percent Solids: 87.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dibromochloromethane	<32		65	32	ug/Kg	☼	05/01/17 10:15	05/15/17 12:59	50
Dibromomethane	<18		65	18	ug/Kg	☼	05/01/17 10:15	05/15/17 12:59	50
Dichlorodifluoromethane	<44		130	44	ug/Kg	☼	05/01/17 10:15	05/15/17 12:59	50
Ethylbenzene	<12		16	12	ug/Kg	☼	05/01/17 10:15	05/15/17 12:59	50
Hexachlorobutadiene	<29		65	29	ug/Kg	☼	05/01/17 10:15	05/15/17 12:59	50
Isopropyl ether	<18		65	18	ug/Kg	☼	05/01/17 10:15	05/15/17 12:59	50
Isopropylbenzene	<25		65	25	ug/Kg	☼	05/01/17 10:15	05/15/17 12:59	50
Methyl tert-butyl ether	<26 *		65	26	ug/Kg	☼	05/01/17 10:15	05/15/17 12:59	50
Methylene Chloride	<110 *		330	110	ug/Kg	☼	05/01/17 10:15	05/15/17 12:59	50
Naphthalene	<22 *		65	22	ug/Kg	☼	05/01/17 10:15	05/15/17 12:59	50
n-Butylbenzene	<25		65	25	ug/Kg	☼	05/01/17 10:15	05/15/17 12:59	50
N-Propylbenzene	<27		65	27	ug/Kg	☼	05/01/17 10:15	05/15/17 12:59	50
p-Isopropyltoluene	<24		65	24	ug/Kg	☼	05/01/17 10:15	05/15/17 12:59	50
sec-Butylbenzene	<26		65	26	ug/Kg	☼	05/01/17 10:15	05/15/17 12:59	50
Styrene	<25 *		65	25	ug/Kg	☼	05/01/17 10:15	05/15/17 12:59	50
tert-Butylbenzene	<26		65	26	ug/Kg	☼	05/01/17 10:15	05/15/17 12:59	50
Tetrachloroethene	<24		65	24	ug/Kg	☼	05/01/17 10:15	05/15/17 12:59	50
Toluene	<9.6		16	9.6	ug/Kg	☼	05/01/17 10:15	05/15/17 12:59	50
trans-1,2-Dichloroethene	<23 *		65	23	ug/Kg	☼	05/01/17 10:15	05/15/17 12:59	50
trans-1,3-Dichloropropene	<24		65	24	ug/Kg	☼	05/01/17 10:15	05/15/17 12:59	50
Trichloroethene	<11		33	11	ug/Kg	☼	05/01/17 10:15	05/15/17 12:59	50
Trichlorofluoromethane	<28 *		65	28	ug/Kg	☼	05/01/17 10:15	05/15/17 12:59	50
Vinyl chloride	<17 *		33	17	ug/Kg	☼	05/01/17 10:15	05/15/17 12:59	50
Xylenes, Total	<14		33	14	ug/Kg	☼	05/01/17 10:15	05/15/17 12:59	50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	97		75 - 126	05/01/17 10:15	05/15/17 12:59	50
4-Bromofluorobenzene (Surr)	91		72 - 124	05/01/17 10:15	05/15/17 12:59	50
Dibromofluoromethane	100		75 - 120	05/01/17 10:15	05/15/17 12:59	50
Toluene-d8 (Surr)	94		75 - 120	05/01/17 10:15	05/15/17 12:59	50

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	8.9		0.52	0.24	mg/Kg	☼	05/05/17 15:07	05/11/17 21:52	1

Client Sample ID: GP-04 (2-4)

Date Collected: 05/01/17 10:35

Date Received: 05/03/17 09:00

Lab Sample ID: 500-127505-8

Matrix: Solid

Percent Solids: 89.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<28		61	28	ug/Kg	☼	05/01/17 10:35	05/15/17 13:28	50
1,1,1-Trichloroethane	<23		61	23	ug/Kg	☼	05/01/17 10:35	05/15/17 13:28	50
1,1,2,2-Tetrachloroethane	<24		61	24	ug/Kg	☼	05/01/17 10:35	05/15/17 13:28	50
1,1,2-Trichloroethane	<21		61	21	ug/Kg	☼	05/01/17 10:35	05/15/17 13:28	50
1,1-Dichloroethane	<25 *		61	25	ug/Kg	☼	05/01/17 10:35	05/15/17 13:28	50
1,1-Dichloroethene	<24 *		61	24	ug/Kg	☼	05/01/17 10:35	05/15/17 13:28	50
1,1-Dichloropropene	<18		61	18	ug/Kg	☼	05/01/17 10:35	05/15/17 13:28	50
1,2,3-Trichlorobenzene	<28		61	28	ug/Kg	☼	05/01/17 10:35	05/15/17 13:28	50
1,2,3-Trichloropropane	<25		61	25	ug/Kg	☼	05/01/17 10:35	05/15/17 13:28	50

TestAmerica Chicago

Client Sample Results

Client: TRC Environmental Corporation.
Project/Site: STH 11 Kentucky to Kearney - 275788

TestAmerica Job ID: 500-127505-1

Client Sample ID: GP-04 (2-4)

Lab Sample ID: 500-127505-8

Date Collected: 05/01/17 10:35

Matrix: Solid

Date Received: 05/03/17 09:00

Percent Solids: 89.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<21		61	21	ug/Kg	☼	05/01/17 10:35	05/15/17 13:28	50
1,2,4-Trimethylbenzene	<22		61	22	ug/Kg	☼	05/01/17 10:35	05/15/17 13:28	50
1,2-Dibromo-3-Chloropropane	<120		300	120	ug/Kg	☼	05/01/17 10:35	05/15/17 13:28	50
1,2-Dibromoethane	<23		61	23	ug/Kg	☼	05/01/17 10:35	05/15/17 13:28	50
1,2-Dichlorobenzene	<20		61	20	ug/Kg	☼	05/01/17 10:35	05/15/17 13:28	50
1,2-Dichloroethane	<24		61	24	ug/Kg	☼	05/01/17 10:35	05/15/17 13:28	50
1,2-Dichloropropane	<26		61	26	ug/Kg	☼	05/01/17 10:35	05/15/17 13:28	50
1,3,5-Trimethylbenzene	<23		61	23	ug/Kg	☼	05/01/17 10:35	05/15/17 13:28	50
1,3-Dichlorobenzene	<24		61	24	ug/Kg	☼	05/01/17 10:35	05/15/17 13:28	50
1,3-Dichloropropane	<22		61	22	ug/Kg	☼	05/01/17 10:35	05/15/17 13:28	50
1,4-Dichlorobenzene	<22		61	22	ug/Kg	☼	05/01/17 10:35	05/15/17 13:28	50
2,2-Dichloropropane	<27		61	27	ug/Kg	☼	05/01/17 10:35	05/15/17 13:28	50
2-Chlorotoluene	<19		61	19	ug/Kg	☼	05/01/17 10:35	05/15/17 13:28	50
4-Chlorotoluene	<21		61	21	ug/Kg	☼	05/01/17 10:35	05/15/17 13:28	50
Benzene	<8.9		15	8.9	ug/Kg	☼	05/01/17 10:35	05/15/17 13:28	50
Bromobenzene	<22		61	22	ug/Kg	☼	05/01/17 10:35	05/15/17 13:28	50
Bromochloromethane	<26 *		61	26	ug/Kg	☼	05/01/17 10:35	05/15/17 13:28	50
Bromodichloromethane	<23		61	23	ug/Kg	☼	05/01/17 10:35	05/15/17 13:28	50
Bromoform	<29		61	29	ug/Kg	☼	05/01/17 10:35	05/15/17 13:28	50
Bromomethane	<48		120	48	ug/Kg	☼	05/01/17 10:35	05/15/17 13:28	50
Carbon tetrachloride	<23		61	23	ug/Kg	☼	05/01/17 10:35	05/15/17 13:28	50
Chlorobenzene	<23		61	23	ug/Kg	☼	05/01/17 10:35	05/15/17 13:28	50
Chloroethane	<31		61	31	ug/Kg	☼	05/01/17 10:35	05/15/17 13:28	50
Chloroform	<22 *		120	22	ug/Kg	☼	05/01/17 10:35	05/15/17 13:28	50
Chloromethane	<19		61	19	ug/Kg	☼	05/01/17 10:35	05/15/17 13:28	50
cis-1,2-Dichloroethene	<25 *		61	25	ug/Kg	☼	05/01/17 10:35	05/15/17 13:28	50
cis-1,3-Dichloropropene	<25		61	25	ug/Kg	☼	05/01/17 10:35	05/15/17 13:28	50
Dibromochloromethane	<30		61	30	ug/Kg	☼	05/01/17 10:35	05/15/17 13:28	50
Dibromomethane	<16		61	16	ug/Kg	☼	05/01/17 10:35	05/15/17 13:28	50
Dichlorodifluoromethane	<41		120	41	ug/Kg	☼	05/01/17 10:35	05/15/17 13:28	50
Ethylbenzene	<11		15	11	ug/Kg	☼	05/01/17 10:35	05/15/17 13:28	50
Hexachlorobutadiene	<27		61	27	ug/Kg	☼	05/01/17 10:35	05/15/17 13:28	50
Isopropyl ether	<17		61	17	ug/Kg	☼	05/01/17 10:35	05/15/17 13:28	50
Isopropylbenzene	<23		61	23	ug/Kg	☼	05/01/17 10:35	05/15/17 13:28	50
Methyl tert-butyl ether	<24 *		61	24	ug/Kg	☼	05/01/17 10:35	05/15/17 13:28	50
Methylene Chloride	<99 *		300	99	ug/Kg	☼	05/01/17 10:35	05/15/17 13:28	50
Naphthalene	<20 *		61	20	ug/Kg	☼	05/01/17 10:35	05/15/17 13:28	50
n-Butylbenzene	<24		61	24	ug/Kg	☼	05/01/17 10:35	05/15/17 13:28	50
N-Propylbenzene	<25		61	25	ug/Kg	☼	05/01/17 10:35	05/15/17 13:28	50
p-Isopropyltoluene	<22		61	22	ug/Kg	☼	05/01/17 10:35	05/15/17 13:28	50
sec-Butylbenzene	<24		61	24	ug/Kg	☼	05/01/17 10:35	05/15/17 13:28	50
Styrene	<23 *		61	23	ug/Kg	☼	05/01/17 10:35	05/15/17 13:28	50
tert-Butylbenzene	<24		61	24	ug/Kg	☼	05/01/17 10:35	05/15/17 13:28	50
Tetrachloroethene	<22		61	22	ug/Kg	☼	05/01/17 10:35	05/15/17 13:28	50
Toluene	<8.9		15	8.9	ug/Kg	☼	05/01/17 10:35	05/15/17 13:28	50
trans-1,2-Dichloroethene	<21 *		61	21	ug/Kg	☼	05/01/17 10:35	05/15/17 13:28	50
trans-1,3-Dichloropropene	<22		61	22	ug/Kg	☼	05/01/17 10:35	05/15/17 13:28	50
Trichloroethene	<10		30	10	ug/Kg	☼	05/01/17 10:35	05/15/17 13:28	50
Trichlorofluoromethane	<26 *		61	26	ug/Kg	☼	05/01/17 10:35	05/15/17 13:28	50

TestAmerica Chicago

Client Sample Results

Client: TRC Environmental Corporation.
Project/Site: STH 11 Kentucky to Kearney - 275788

TestAmerica Job ID: 500-127505-1

Client Sample ID: GP-04 (2-4)

Date Collected: 05/01/17 10:35

Date Received: 05/03/17 09:00

Lab Sample ID: 500-127505-8

Matrix: Solid

Percent Solids: 89.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	<16	*	30	16	ug/Kg	☼	05/01/17 10:35	05/15/17 13:28	50
Xylenes, Total	<13		30	13	ug/Kg	☼	05/01/17 10:35	05/15/17 13:28	50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	98		75 - 126	05/01/17 10:35	05/15/17 13:28	50
4-Bromofluorobenzene (Surr)	92		72 - 124	05/01/17 10:35	05/15/17 13:28	50
Dibromofluoromethane	99		75 - 120	05/01/17 10:35	05/15/17 13:28	50
Toluene-d8 (Surr)	94		75 - 120	05/01/17 10:35	05/15/17 13:28	50

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	9.4		0.50	0.23	mg/Kg	☼	05/05/17 15:07	05/11/17 21:56	1

Client Sample ID: GP-04 (6-8)

Date Collected: 05/01/17 10:40

Date Received: 05/03/17 09:00

Lab Sample ID: 500-127505-9

Matrix: Solid

Percent Solids: 85.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<30		66	30	ug/Kg	☼	05/01/17 10:40	05/15/17 13:58	50
1,1,1-Trichloroethane	<25		66	25	ug/Kg	☼	05/01/17 10:40	05/15/17 13:58	50
1,1,2,2-Tetrachloroethane	<26		66	26	ug/Kg	☼	05/01/17 10:40	05/15/17 13:58	50
1,1,2-Trichloroethane	<23		66	23	ug/Kg	☼	05/01/17 10:40	05/15/17 13:58	50
1,1-Dichloroethane	<27	*	66	27	ug/Kg	☼	05/01/17 10:40	05/15/17 13:58	50
1,1-Dichloroethene	<26	*	66	26	ug/Kg	☼	05/01/17 10:40	05/15/17 13:58	50
1,1-Dichloropropene	<20		66	20	ug/Kg	☼	05/01/17 10:40	05/15/17 13:58	50
1,2,3-Trichlorobenzene	<30		66	30	ug/Kg	☼	05/01/17 10:40	05/15/17 13:58	50
1,2,3-Trichloropropane	<27		66	27	ug/Kg	☼	05/01/17 10:40	05/15/17 13:58	50
1,2,4-Trichlorobenzene	<22		66	22	ug/Kg	☼	05/01/17 10:40	05/15/17 13:58	50
1,2,4-Trimethylbenzene	<23		66	23	ug/Kg	☼	05/01/17 10:40	05/15/17 13:58	50
1,2-Dibromo-3-Chloropropane	<130		330	130	ug/Kg	☼	05/01/17 10:40	05/15/17 13:58	50
1,2-Dibromoethane	<25		66	25	ug/Kg	☼	05/01/17 10:40	05/15/17 13:58	50
1,2-Dichlorobenzene	<22		66	22	ug/Kg	☼	05/01/17 10:40	05/15/17 13:58	50
1,2-Dichloroethane	<26		66	26	ug/Kg	☼	05/01/17 10:40	05/15/17 13:58	50
1,2-Dichloropropane	<28		66	28	ug/Kg	☼	05/01/17 10:40	05/15/17 13:58	50
1,3,5-Trimethylbenzene	<25		66	25	ug/Kg	☼	05/01/17 10:40	05/15/17 13:58	50
1,3-Dichlorobenzene	<26		66	26	ug/Kg	☼	05/01/17 10:40	05/15/17 13:58	50
1,3-Dichloropropane	<24		66	24	ug/Kg	☼	05/01/17 10:40	05/15/17 13:58	50
1,4-Dichlorobenzene	<24		66	24	ug/Kg	☼	05/01/17 10:40	05/15/17 13:58	50
2,2-Dichloropropane	<29		66	29	ug/Kg	☼	05/01/17 10:40	05/15/17 13:58	50
2-Chlorotoluene	<21		66	21	ug/Kg	☼	05/01/17 10:40	05/15/17 13:58	50
4-Chlorotoluene	<23		66	23	ug/Kg	☼	05/01/17 10:40	05/15/17 13:58	50
Benzene	<9.6		16	9.6	ug/Kg	☼	05/01/17 10:40	05/15/17 13:58	50
Bromobenzene	<23		66	23	ug/Kg	☼	05/01/17 10:40	05/15/17 13:58	50
Bromochloromethane	<28	*	66	28	ug/Kg	☼	05/01/17 10:40	05/15/17 13:58	50
Bromodichloromethane	<24		66	24	ug/Kg	☼	05/01/17 10:40	05/15/17 13:58	50
Bromoform	<32		66	32	ug/Kg	☼	05/01/17 10:40	05/15/17 13:58	50
Bromomethane	<52		130	52	ug/Kg	☼	05/01/17 10:40	05/15/17 13:58	50
Carbon tetrachloride	<25		66	25	ug/Kg	☼	05/01/17 10:40	05/15/17 13:58	50
Chlorobenzene	<25		66	25	ug/Kg	☼	05/01/17 10:40	05/15/17 13:58	50

TestAmerica Chicago

Client Sample Results

Client: TRC Environmental Corporation.
Project/Site: STH 11 Kentucky to Kearney - 275788

TestAmerica Job ID: 500-127505-1

Client Sample ID: GP-04 (6-8)

Date Collected: 05/01/17 10:40

Date Received: 05/03/17 09:00

Lab Sample ID: 500-127505-9

Matrix: Solid

Percent Solids: 85.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloroethane	<33		66	33	ug/Kg	☼	05/01/17 10:40	05/15/17 13:58	50
Chloroform	<24	*	130	24	ug/Kg	☼	05/01/17 10:40	05/15/17 13:58	50
Chloromethane	<21		66	21	ug/Kg	☼	05/01/17 10:40	05/15/17 13:58	50
cis-1,2-Dichloroethene	<27	*	66	27	ug/Kg	☼	05/01/17 10:40	05/15/17 13:58	50
cis-1,3-Dichloropropene	<27		66	27	ug/Kg	☼	05/01/17 10:40	05/15/17 13:58	50
Dibromochloromethane	<32		66	32	ug/Kg	☼	05/01/17 10:40	05/15/17 13:58	50
Dibromomethane	<18		66	18	ug/Kg	☼	05/01/17 10:40	05/15/17 13:58	50
Dichlorodifluoromethane	<44		130	44	ug/Kg	☼	05/01/17 10:40	05/15/17 13:58	50
Ethylbenzene	<12		16	12	ug/Kg	☼	05/01/17 10:40	05/15/17 13:58	50
Hexachlorobutadiene	<29		66	29	ug/Kg	☼	05/01/17 10:40	05/15/17 13:58	50
Isopropyl ether	<18		66	18	ug/Kg	☼	05/01/17 10:40	05/15/17 13:58	50
Isopropylbenzene	<25		66	25	ug/Kg	☼	05/01/17 10:40	05/15/17 13:58	50
Methyl tert-butyl ether	<26	*	66	26	ug/Kg	☼	05/01/17 10:40	05/15/17 13:58	50
Methylene Chloride	<110	*	330	110	ug/Kg	☼	05/01/17 10:40	05/15/17 13:58	50
Naphthalene	<22	*	66	22	ug/Kg	☼	05/01/17 10:40	05/15/17 13:58	50
n-Butylbenzene	<25		66	25	ug/Kg	☼	05/01/17 10:40	05/15/17 13:58	50
N-Propylbenzene	<27		66	27	ug/Kg	☼	05/01/17 10:40	05/15/17 13:58	50
p-Isopropyltoluene	<24		66	24	ug/Kg	☼	05/01/17 10:40	05/15/17 13:58	50
sec-Butylbenzene	<26		66	26	ug/Kg	☼	05/01/17 10:40	05/15/17 13:58	50
Styrene	<25	*	66	25	ug/Kg	☼	05/01/17 10:40	05/15/17 13:58	50
tert-Butylbenzene	<26		66	26	ug/Kg	☼	05/01/17 10:40	05/15/17 13:58	50
Tetrachloroethene	540		66	24	ug/Kg	☼	05/01/17 10:40	05/15/17 13:58	50
Toluene	<9.6		16	9.6	ug/Kg	☼	05/01/17 10:40	05/15/17 13:58	50
trans-1,2-Dichloroethene	<23	*	66	23	ug/Kg	☼	05/01/17 10:40	05/15/17 13:58	50
trans-1,3-Dichloropropene	<24		66	24	ug/Kg	☼	05/01/17 10:40	05/15/17 13:58	50
Trichloroethene	<11		33	11	ug/Kg	☼	05/01/17 10:40	05/15/17 13:58	50
Trichlorofluoromethane	<28	*	66	28	ug/Kg	☼	05/01/17 10:40	05/15/17 13:58	50
Vinyl chloride	<17	*	33	17	ug/Kg	☼	05/01/17 10:40	05/15/17 13:58	50
Xylenes, Total	<14		33	14	ug/Kg	☼	05/01/17 10:40	05/15/17 13:58	50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	100		75 - 126	05/01/17 10:40	05/15/17 13:58	50
4-Bromofluorobenzene (Surr)	93		72 - 124	05/01/17 10:40	05/15/17 13:58	50
Dibromofluoromethane	102		75 - 120	05/01/17 10:40	05/15/17 13:58	50
Toluene-d8 (Surr)	94		75 - 120	05/01/17 10:40	05/15/17 13:58	50

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	11		0.53	0.24	mg/Kg	☼	05/05/17 15:07	05/11/17 22:01	1

Client Sample ID: GP-05 (2-4)

Date Collected: 05/01/17 11:00

Date Received: 05/03/17 09:00

Lab Sample ID: 500-127505-10

Matrix: Solid

Percent Solids: 82.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<33		71	33	ug/Kg	☼	05/01/17 11:00	05/15/17 14:27	50
1,1,1-Trichloroethane	<27		71	27	ug/Kg	☼	05/01/17 11:00	05/15/17 14:27	50
1,1,2,2-Tetrachloroethane	<28		71	28	ug/Kg	☼	05/01/17 11:00	05/15/17 14:27	50
1,1,2-Trichloroethane	<25		71	25	ug/Kg	☼	05/01/17 11:00	05/15/17 14:27	50

TestAmerica Chicago

Client Sample Results

Client: TRC Environmental Corporation.
Project/Site: STH 11 Kentucky to Kearney - 275788

TestAmerica Job ID: 500-127505-1

Client Sample ID: GP-05 (2-4)

Lab Sample ID: 500-127505-10

Date Collected: 05/01/17 11:00

Matrix: Solid

Date Received: 05/03/17 09:00

Percent Solids: 82.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethane	<29	*	71	29	ug/Kg	☼	05/01/17 11:00	05/15/17 14:27	50
1,1-Dichloroethene	<28	*	71	28	ug/Kg	☼	05/01/17 11:00	05/15/17 14:27	50
1,1-Dichloropropene	<21		71	21	ug/Kg	☼	05/01/17 11:00	05/15/17 14:27	50
1,2,3-Trichlorobenzene	<33		71	33	ug/Kg	☼	05/01/17 11:00	05/15/17 14:27	50
1,2,3-Trichloropropane	<29		71	29	ug/Kg	☼	05/01/17 11:00	05/15/17 14:27	50
1,2,4-Trichlorobenzene	<24		71	24	ug/Kg	☼	05/01/17 11:00	05/15/17 14:27	50
1,2,4-Trimethylbenzene	<26		71	26	ug/Kg	☼	05/01/17 11:00	05/15/17 14:27	50
1,2-Dibromo-3-Chloropropane	<140		360	140	ug/Kg	☼	05/01/17 11:00	05/15/17 14:27	50
1,2-Dibromoethane	<28		71	28	ug/Kg	☼	05/01/17 11:00	05/15/17 14:27	50
1,2-Dichlorobenzene	<24		71	24	ug/Kg	☼	05/01/17 11:00	05/15/17 14:27	50
1,2-Dichloroethane	<28		71	28	ug/Kg	☼	05/01/17 11:00	05/15/17 14:27	50
1,2-Dichloropropane	<30		71	30	ug/Kg	☼	05/01/17 11:00	05/15/17 14:27	50
1,3,5-Trimethylbenzene	<27		71	27	ug/Kg	☼	05/01/17 11:00	05/15/17 14:27	50
1,3-Dichlorobenzene	<29		71	29	ug/Kg	☼	05/01/17 11:00	05/15/17 14:27	50
1,3-Dichloropropane	<26		71	26	ug/Kg	☼	05/01/17 11:00	05/15/17 14:27	50
1,4-Dichlorobenzene	<26		71	26	ug/Kg	☼	05/01/17 11:00	05/15/17 14:27	50
2,2-Dichloropropane	<32		71	32	ug/Kg	☼	05/01/17 11:00	05/15/17 14:27	50
2-Chlorotoluene	<22		71	22	ug/Kg	☼	05/01/17 11:00	05/15/17 14:27	50
4-Chlorotoluene	<25		71	25	ug/Kg	☼	05/01/17 11:00	05/15/17 14:27	50
Benzene	<10		18	10	ug/Kg	☼	05/01/17 11:00	05/15/17 14:27	50
Bromobenzene	<25		71	25	ug/Kg	☼	05/01/17 11:00	05/15/17 14:27	50
Bromochloromethane	<30	*	71	30	ug/Kg	☼	05/01/17 11:00	05/15/17 14:27	50
Bromodichloromethane	<27		71	27	ug/Kg	☼	05/01/17 11:00	05/15/17 14:27	50
Bromoform	<34		71	34	ug/Kg	☼	05/01/17 11:00	05/15/17 14:27	50
Bromomethane	<57		140	57	ug/Kg	☼	05/01/17 11:00	05/15/17 14:27	50
Carbon tetrachloride	<27		71	27	ug/Kg	☼	05/01/17 11:00	05/15/17 14:27	50
Chlorobenzene	<28		71	28	ug/Kg	☼	05/01/17 11:00	05/15/17 14:27	50
Chloroethane	<36		71	36	ug/Kg	☼	05/01/17 11:00	05/15/17 14:27	50
Chloroform	<26	*	140	26	ug/Kg	☼	05/01/17 11:00	05/15/17 14:27	50
Chloromethane	<23		71	23	ug/Kg	☼	05/01/17 11:00	05/15/17 14:27	50
cis-1,2-Dichloroethene	<29	*	71	29	ug/Kg	☼	05/01/17 11:00	05/15/17 14:27	50
cis-1,3-Dichloropropane	<30		71	30	ug/Kg	☼	05/01/17 11:00	05/15/17 14:27	50
Dibromochloromethane	<35		71	35	ug/Kg	☼	05/01/17 11:00	05/15/17 14:27	50
Dibromomethane	<19		71	19	ug/Kg	☼	05/01/17 11:00	05/15/17 14:27	50
Dichlorodifluoromethane	<48		140	48	ug/Kg	☼	05/01/17 11:00	05/15/17 14:27	50
Ethylbenzene	<13		18	13	ug/Kg	☼	05/01/17 11:00	05/15/17 14:27	50
Hexachlorobutadiene	<32		71	32	ug/Kg	☼	05/01/17 11:00	05/15/17 14:27	50
Isopropyl ether	<20		71	20	ug/Kg	☼	05/01/17 11:00	05/15/17 14:27	50
Isopropylbenzene	<27		71	27	ug/Kg	☼	05/01/17 11:00	05/15/17 14:27	50
Methyl tert-butyl ether	<28	*	71	28	ug/Kg	☼	05/01/17 11:00	05/15/17 14:27	50
Methylene Chloride	<120	*	360	120	ug/Kg	☼	05/01/17 11:00	05/15/17 14:27	50
Naphthalene	<24	*	71	24	ug/Kg	☼	05/01/17 11:00	05/15/17 14:27	50
n-Butylbenzene	<28		71	28	ug/Kg	☼	05/01/17 11:00	05/15/17 14:27	50
N-Propylbenzene	<29		71	29	ug/Kg	☼	05/01/17 11:00	05/15/17 14:27	50
p-Isopropyltoluene	<26		71	26	ug/Kg	☼	05/01/17 11:00	05/15/17 14:27	50
sec-Butylbenzene	<28		71	28	ug/Kg	☼	05/01/17 11:00	05/15/17 14:27	50
Styrene	<28	*	71	28	ug/Kg	☼	05/01/17 11:00	05/15/17 14:27	50
tert-Butylbenzene	<28		71	28	ug/Kg	☼	05/01/17 11:00	05/15/17 14:27	50
Tetrachloroethene	<26		71	26	ug/Kg	☼	05/01/17 11:00	05/15/17 14:27	50

TestAmerica Chicago

Client Sample Results

Client: TRC Environmental Corporation.
Project/Site: STH 11 Kentucky to Kearney - 275788

TestAmerica Job ID: 500-127505-1

Client Sample ID: GP-05 (2-4)

Lab Sample ID: 500-127505-10

Date Collected: 05/01/17 11:00

Matrix: Solid

Date Received: 05/03/17 09:00

Percent Solids: 82.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toluene	<10		18	10	ug/Kg	☼	05/01/17 11:00	05/15/17 14:27	50
trans-1,2-Dichloroethene	<25	*	71	25	ug/Kg	☼	05/01/17 11:00	05/15/17 14:27	50
trans-1,3-Dichloropropene	<26		71	26	ug/Kg	☼	05/01/17 11:00	05/15/17 14:27	50
Trichloroethene	<12		36	12	ug/Kg	☼	05/01/17 11:00	05/15/17 14:27	50
Trichlorofluoromethane	<30	*	71	30	ug/Kg	☼	05/01/17 11:00	05/15/17 14:27	50
Vinyl chloride	<19	*	36	19	ug/Kg	☼	05/01/17 11:00	05/15/17 14:27	50
Xylenes, Total	<16		36	16	ug/Kg	☼	05/01/17 11:00	05/15/17 14:27	50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	98		75 - 126	05/01/17 11:00	05/15/17 14:27	50
4-Bromofluorobenzene (Surr)	90		72 - 124	05/01/17 11:00	05/15/17 14:27	50
Dibromofluoromethane	100		75 - 120	05/01/17 11:00	05/15/17 14:27	50
Toluene-d8 (Surr)	94		75 - 120	05/01/17 11:00	05/15/17 14:27	50

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	20		0.52	0.24	mg/Kg	☼	05/05/17 15:07	05/11/17 22:05	1

Client Sample ID: GP-05 (6-8)

Lab Sample ID: 500-127505-11

Date Collected: 05/01/17 11:10

Matrix: Solid

Date Received: 05/03/17 09:00

Percent Solids: 86.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<31		66	31	ug/Kg	☼	05/01/17 11:10	05/15/17 14:56	50
1,1,1-Trichloroethane	<25		66	25	ug/Kg	☼	05/01/17 11:10	05/15/17 14:56	50
1,1,1,2,2-Tetrachloroethane	<26		66	26	ug/Kg	☼	05/01/17 11:10	05/15/17 14:56	50
1,1,2-Trichloroethane	<23		66	23	ug/Kg	☼	05/01/17 11:10	05/15/17 14:56	50
1,1-Dichloroethane	<27	*	66	27	ug/Kg	☼	05/01/17 11:10	05/15/17 14:56	50
1,1-Dichloroethene	<26	*	66	26	ug/Kg	☼	05/01/17 11:10	05/15/17 14:56	50
1,1-Dichloropropene	<20		66	20	ug/Kg	☼	05/01/17 11:10	05/15/17 14:56	50
1,2,3-Trichlorobenzene	<30		66	30	ug/Kg	☼	05/01/17 11:10	05/15/17 14:56	50
1,2,3-Trichloropropane	<27		66	27	ug/Kg	☼	05/01/17 11:10	05/15/17 14:56	50
1,2,4-Trichlorobenzene	<23		66	23	ug/Kg	☼	05/01/17 11:10	05/15/17 14:56	50
1,2,4-Trimethylbenzene	<24		66	24	ug/Kg	☼	05/01/17 11:10	05/15/17 14:56	50
1,2-Dibromo-3-Chloropropane	<130		330	130	ug/Kg	☼	05/01/17 11:10	05/15/17 14:56	50
1,2-Dibromoethane	<26		66	26	ug/Kg	☼	05/01/17 11:10	05/15/17 14:56	50
1,2-Dichlorobenzene	<22		66	22	ug/Kg	☼	05/01/17 11:10	05/15/17 14:56	50
1,2-Dichloroethane	<26		66	26	ug/Kg	☼	05/01/17 11:10	05/15/17 14:56	50
1,2-Dichloropropane	<28		66	28	ug/Kg	☼	05/01/17 11:10	05/15/17 14:56	50
1,3,5-Trimethylbenzene	<25		66	25	ug/Kg	☼	05/01/17 11:10	05/15/17 14:56	50
1,3-Dichlorobenzene	<27		66	27	ug/Kg	☼	05/01/17 11:10	05/15/17 14:56	50
1,3-Dichloropropane	<24		66	24	ug/Kg	☼	05/01/17 11:10	05/15/17 14:56	50
1,4-Dichlorobenzene	<24		66	24	ug/Kg	☼	05/01/17 11:10	05/15/17 14:56	50
2,2-Dichloropropane	<29		66	29	ug/Kg	☼	05/01/17 11:10	05/15/17 14:56	50
2-Chlorotoluene	<21		66	21	ug/Kg	☼	05/01/17 11:10	05/15/17 14:56	50
4-Chlorotoluene	<23		66	23	ug/Kg	☼	05/01/17 11:10	05/15/17 14:56	50
Benzene	<9.7		17	9.7	ug/Kg	☼	05/01/17 11:10	05/15/17 14:56	50
Bromobenzene	<24		66	24	ug/Kg	☼	05/01/17 11:10	05/15/17 14:56	50
Bromochloromethane	<28	*	66	28	ug/Kg	☼	05/01/17 11:10	05/15/17 14:56	50

TestAmerica Chicago

Client Sample Results

Client: TRC Environmental Corporation.
Project/Site: STH 11 Kentucky to Kearney - 275788

TestAmerica Job ID: 500-127505-1

Client Sample ID: GP-05 (6-8)

Lab Sample ID: 500-127505-11

Date Collected: 05/01/17 11:10

Matrix: Solid

Date Received: 05/03/17 09:00

Percent Solids: 86.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromodichloromethane	<25		66	25	ug/Kg	☼	05/01/17 11:10	05/15/17 14:56	50
Bromoform	<32		66	32	ug/Kg	☼	05/01/17 11:10	05/15/17 14:56	50
Bromomethane	<53		130	53	ug/Kg	☼	05/01/17 11:10	05/15/17 14:56	50
Carbon tetrachloride	<25		66	25	ug/Kg	☼	05/01/17 11:10	05/15/17 14:56	50
Chlorobenzene	<26		66	26	ug/Kg	☼	05/01/17 11:10	05/15/17 14:56	50
Chloroethane	<33		66	33	ug/Kg	☼	05/01/17 11:10	05/15/17 14:56	50
Chloroform	<25 *		130	25	ug/Kg	☼	05/01/17 11:10	05/15/17 14:56	50
Chloromethane	<21		66	21	ug/Kg	☼	05/01/17 11:10	05/15/17 14:56	50
cis-1,2-Dichloroethene	<27 *		66	27	ug/Kg	☼	05/01/17 11:10	05/15/17 14:56	50
cis-1,3-Dichloropropene	<28		66	28	ug/Kg	☼	05/01/17 11:10	05/15/17 14:56	50
Dibromochloromethane	<32		66	32	ug/Kg	☼	05/01/17 11:10	05/15/17 14:56	50
Dibromomethane	<18		66	18	ug/Kg	☼	05/01/17 11:10	05/15/17 14:56	50
Dichlorodifluoromethane	<45		130	45	ug/Kg	☼	05/01/17 11:10	05/15/17 14:56	50
Ethylbenzene	<12		17	12	ug/Kg	☼	05/01/17 11:10	05/15/17 14:56	50
Hexachlorobutadiene	<30		66	30	ug/Kg	☼	05/01/17 11:10	05/15/17 14:56	50
Isopropyl ether	<18		66	18	ug/Kg	☼	05/01/17 11:10	05/15/17 14:56	50
Isopropylbenzene	<25		66	25	ug/Kg	☼	05/01/17 11:10	05/15/17 14:56	50
Methyl tert-butyl ether	<26 *		66	26	ug/Kg	☼	05/01/17 11:10	05/15/17 14:56	50
Methylene Chloride	<110 *		330	110	ug/Kg	☼	05/01/17 11:10	05/15/17 14:56	50
Naphthalene	<22 *		66	22	ug/Kg	☼	05/01/17 11:10	05/15/17 14:56	50
n-Butylbenzene	<26		66	26	ug/Kg	☼	05/01/17 11:10	05/15/17 14:56	50
N-Propylbenzene	<27		66	27	ug/Kg	☼	05/01/17 11:10	05/15/17 14:56	50
p-Isopropyltoluene	<24		66	24	ug/Kg	☼	05/01/17 11:10	05/15/17 14:56	50
sec-Butylbenzene	<26		66	26	ug/Kg	☼	05/01/17 11:10	05/15/17 14:56	50
Styrene	<26 *		66	26	ug/Kg	☼	05/01/17 11:10	05/15/17 14:56	50
tert-Butylbenzene	<26		66	26	ug/Kg	☼	05/01/17 11:10	05/15/17 14:56	50
Tetrachloroethene	<25		66	25	ug/Kg	☼	05/01/17 11:10	05/15/17 14:56	50
Toluene	<9.7		17	9.7	ug/Kg	☼	05/01/17 11:10	05/15/17 14:56	50
trans-1,2-Dichloroethene	<23 *		66	23	ug/Kg	☼	05/01/17 11:10	05/15/17 14:56	50
trans-1,3-Dichloropropene	<24		66	24	ug/Kg	☼	05/01/17 11:10	05/15/17 14:56	50
Trichloroethene	<11		33	11	ug/Kg	☼	05/01/17 11:10	05/15/17 14:56	50
Trichlorofluoromethane	<28 *		66	28	ug/Kg	☼	05/01/17 11:10	05/15/17 14:56	50
Vinyl chloride	<17 *		33	17	ug/Kg	☼	05/01/17 11:10	05/15/17 14:56	50
Xylenes, Total	<15		33	15	ug/Kg	☼	05/01/17 11:10	05/15/17 14:56	50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	97		75 - 126	05/01/17 11:10	05/15/17 14:56	50
4-Bromofluorobenzene (Surr)	92		72 - 124	05/01/17 11:10	05/15/17 14:56	50
Dibromofluoromethane	99		75 - 120	05/01/17 11:10	05/15/17 14:56	50
Toluene-d8 (Surr)	95		75 - 120	05/01/17 11:10	05/15/17 14:56	50

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	<0.010		0.020	0.010	mg/L			05/09/17 00:42	20
1,2-Dichloroethane	<0.010		0.020	0.010	mg/L			05/09/17 00:42	20
Benzene	<0.010		0.020	0.010	mg/L			05/09/17 00:42	20
Carbon tetrachloride	<0.010		0.020	0.010	mg/L			05/09/17 00:42	20
Chlorobenzene	<0.010		0.020	0.010	mg/L			05/09/17 00:42	20
Chloroform	<0.020		0.040	0.020	mg/L			05/09/17 00:42	20
Methyl Ethyl Ketone	<0.050		0.10	0.050	mg/L			05/09/17 00:42	20

TestAmerica Chicago

Client Sample Results

Client: TRC Environmental Corporation.
Project/Site: STH 11 Kentucky to Kearney - 275788

TestAmerica Job ID: 500-127505-1

Client Sample ID: GP-05 (6-8)

Lab Sample ID: 500-127505-11

Date Collected: 05/01/17 11:10

Matrix: Solid

Date Received: 05/03/17 09:00

Percent Solids: 86.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	<0.010		0.020	0.010	mg/L			05/09/17 00:42	20
Trichloroethene	<0.010		0.020	0.010	mg/L			05/09/17 00:42	20
Vinyl chloride	<0.010		0.020	0.010	mg/L			05/09/17 00:42	20

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	103		75 - 126		05/09/17 00:42	20
4-Bromofluorobenzene (Surr)	110		72 - 124		05/09/17 00:42	20
Dibromofluoromethane	89		75 - 120		05/09/17 00:42	20
Toluene-d8 (Surr)	101		75 - 120		05/09/17 00:42	20

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	<0.020		0.020	0.020	mg/L		05/08/17 07:42	05/08/17 15:28	1
2,4,5-Trichlorophenol	<0.10		0.10	0.10	mg/L		05/08/17 07:42	05/08/17 15:28	1
2,4,6-Trichlorophenol	<0.050		0.050	0.050	mg/L		05/08/17 07:42	05/08/17 15:28	1
2,4-Dinitrotoluene	<0.010		0.010	0.010	mg/L		05/08/17 07:42	05/08/17 15:28	1
2-Methylphenol	<0.020		0.020	0.020	mg/L		05/08/17 07:42	05/08/17 15:28	1
3 & 4 Methylphenol	<0.020		0.020	0.020	mg/L		05/08/17 07:42	05/08/17 15:28	1
Hexachlorobenzene	<0.0050		0.0050	0.0050	mg/L		05/08/17 07:42	05/08/17 15:28	1
Hexachlorobutadiene	<0.050		0.050	0.050	mg/L		05/08/17 07:42	05/08/17 15:28	1
Hexachloroethane	<0.050		0.050	0.050	mg/L		05/08/17 07:42	05/08/17 15:28	1
Nitrobenzene	<0.010		0.010	0.010	mg/L		05/08/17 07:42	05/08/17 15:28	1
Pentachlorophenol	<0.20		0.20	0.20	mg/L		05/08/17 07:42	05/08/17 15:28	1
Pyridine	<0.20		0.20	0.20	mg/L		05/08/17 07:42	05/08/17 15:28	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	90		40 - 145	05/08/17 07:42	05/08/17 15:28	1
2-Fluorobiphenyl	86		34 - 110	05/08/17 07:42	05/08/17 15:28	1
2-Fluorophenol (Surr)	59		27 - 110	05/08/17 07:42	05/08/17 15:28	1
Nitrobenzene-d5 (Surr)	95		36 - 120	05/08/17 07:42	05/08/17 15:28	1
Phenol-d5 (Surr)	42		20 - 100	05/08/17 07:42	05/08/17 15:28	1
Terphenyl-d14 (Surr)	104		40 - 145	05/08/17 07:42	05/08/17 15:28	1

Method: WI-GRO - Wisconsin - Gasoline Range Organics (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
WI Gasoline Range Organics (C5-C10)	<660		2000	660	ug/Kg	☼	05/01/17 11:10	05/07/17 21:31	50

Method: 8082A - 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	☼	05/09/17 16:38	05/10/17 13:35	1
PCB-1221	<8.2		19	8.2	ug/Kg	☼	05/09/17 16:38	05/10/17 13:35	1
PCB-1232	<8.1		19	8.1	ug/Kg	☼	05/09/17 16:38	05/10/17 13:35	1
PCB-1242	<6.1		19	6.1	ug/Kg	☼	05/09/17 16:38	05/10/17 13:35	1
PCB-1248	<7.3		19	7.3	ug/Kg	☼	05/09/17 16:38	05/10/17 13:35	1
PCB-1254	<4.0		19	4.0	ug/Kg	☼	05/09/17 16:38	05/10/17 13:35	1
PCB-1260	<9.1		19	9.1	ug/Kg	☼	05/09/17 16:38	05/10/17 13:35	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	61		49 - 129	05/09/17 16:38	05/10/17 13:35	1
DCB Decachlorobiphenyl	62		37 - 121	05/09/17 16:38	05/10/17 13:35	1

TestAmerica Chicago

Client Sample Results

Client: TRC Environmental Corporation.
Project/Site: STH 11 Kentucky to Kearney - 275788

TestAmerica Job ID: 500-127505-1

Client Sample ID: GP-05 (6-8)

Lab Sample ID: 500-127505-11

Date Collected: 05/01/17 11:10

Matrix: Solid

Date Received: 05/03/17 09:00

Percent Solids: 86.3

Method: WI-DRO - Wisconsin - Diesel Range Organics (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
WI Diesel Range Organics (C10-C28)	<1.8		4.6	1.8	mg/Kg	☼	05/04/17 11:15	05/05/17 15:38	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
n-Nonane	69		44 - 148				05/04/17 11:15	05/05/17 15:38	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	9.6		0.52	0.24	mg/Kg	☼	05/05/17 15:07	05/11/17 22:09	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.010		0.050	0.010	mg/L		05/08/17 08:10	05/08/17 21:40	1
Barium	0.34	J	0.50	0.050	mg/L		05/08/17 08:10	05/08/17 21:40	1
Cadmium	0.0020	J	0.0050	0.0020	mg/L		05/08/17 08:10	05/08/17 21:40	1
Chromium	<0.010		0.025	0.010	mg/L		05/08/17 08:10	05/08/17 21:40	1
Copper	<0.010		0.025	0.010	mg/L		05/08/17 08:10	05/08/17 21:40	1
Lead	0.014	J	0.050	0.0075	mg/L		05/08/17 08:10	05/08/17 21:40	1
Nickel	0.014	J	0.025	0.010	mg/L		05/08/17 08:10	05/08/17 21:40	1
Selenium	<0.020		0.050	0.020	mg/L		05/08/17 08:10	05/08/17 21:40	1
Silver	<0.010		0.025	0.010	mg/L		05/08/17 08:10	05/08/17 21:40	1
Zinc	<0.020		0.10	0.020	mg/L		05/08/17 08:10	05/08/17 21:40	1

Method: 7470A - Mercury (CVAA) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		05/08/17 13:40	05/09/17 10:12	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Flashpoint	>176		40.0	40.0	Degrees F			05/11/17 16:20	1
Cyanide, Total	<0.15		0.45	0.15	mg/Kg		05/10/17 12:50	05/10/17 15:36	1
Sulfide	6.7	J	9.8	4.6	mg/Kg		05/15/17 17:36	05/15/17 21:48	1
pH	9.0		0.2	0.2	SU			05/09/17 16:02	1
Paint Filter	PASS				No Unit			05/11/17 22:39	1
Specific Gravity	3.1404				NONE			05/12/17 22:07	1

Client Sample ID: GP-05 (14-16)

Lab Sample ID: 500-127505-12

Date Collected: 05/01/17 11:20

Matrix: Solid

Date Received: 05/03/17 09:00

Percent Solids: 87.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<30		64	30	ug/Kg	☼	05/01/17 11:20	05/15/17 15:25	50
1,1,1-Trichloroethane	<24		64	24	ug/Kg	☼	05/01/17 11:20	05/15/17 15:25	50
1,1,2,2-Tetrachloroethane	<26		64	26	ug/Kg	☼	05/01/17 11:20	05/15/17 15:25	50
1,1,2-Trichloroethane	<23		64	23	ug/Kg	☼	05/01/17 11:20	05/15/17 15:25	50
1,1-Dichloroethane	<26	*	64	26	ug/Kg	☼	05/01/17 11:20	05/15/17 15:25	50
1,1-Dichloroethene	<25	*	64	25	ug/Kg	☼	05/01/17 11:20	05/15/17 15:25	50
1,1-Dichloropropene	<19		64	19	ug/Kg	☼	05/01/17 11:20	05/15/17 15:25	50
1,2,3-Trichlorobenzene	<29		64	29	ug/Kg	☼	05/01/17 11:20	05/15/17 15:25	50
1,2,3-Trichloropropane	<27		64	27	ug/Kg	☼	05/01/17 11:20	05/15/17 15:25	50
1,2,4-Trichlorobenzene	<22		64	22	ug/Kg	☼	05/01/17 11:20	05/15/17 15:25	50

TestAmerica Chicago

Client Sample Results

Client: TRC Environmental Corporation.
Project/Site: STH 11 Kentucky to Kearney - 275788

TestAmerica Job ID: 500-127505-1

Client Sample ID: GP-05 (14-16)

Lab Sample ID: 500-127505-12

Date Collected: 05/01/17 11:20

Matrix: Solid

Date Received: 05/03/17 09:00

Percent Solids: 87.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trimethylbenzene	<23		64	23	ug/Kg	☼	05/01/17 11:20	05/15/17 15:25	50
1,2-Dibromo-3-Chloropropane	<130		320	130	ug/Kg	☼	05/01/17 11:20	05/15/17 15:25	50
1,2-Dibromoethane	<25		64	25	ug/Kg	☼	05/01/17 11:20	05/15/17 15:25	50
1,2-Dichlorobenzene	<21		64	21	ug/Kg	☼	05/01/17 11:20	05/15/17 15:25	50
1,2-Dichloroethane	<25		64	25	ug/Kg	☼	05/01/17 11:20	05/15/17 15:25	50
1,2-Dichloropropane	<27		64	27	ug/Kg	☼	05/01/17 11:20	05/15/17 15:25	50
1,3,5-Trimethylbenzene	<24		64	24	ug/Kg	☼	05/01/17 11:20	05/15/17 15:25	50
1,3-Dichlorobenzene	<26		64	26	ug/Kg	☼	05/01/17 11:20	05/15/17 15:25	50
1,3-Dichloropropane	<23		64	23	ug/Kg	☼	05/01/17 11:20	05/15/17 15:25	50
1,4-Dichlorobenzene	<23		64	23	ug/Kg	☼	05/01/17 11:20	05/15/17 15:25	50
2,2-Dichloropropane	<28		64	28	ug/Kg	☼	05/01/17 11:20	05/15/17 15:25	50
2-Chlorotoluene	<20		64	20	ug/Kg	☼	05/01/17 11:20	05/15/17 15:25	50
4-Chlorotoluene	<22		64	22	ug/Kg	☼	05/01/17 11:20	05/15/17 15:25	50
Benzene	<9.4		16	9.4	ug/Kg	☼	05/01/17 11:20	05/15/17 15:25	50
Bromobenzene	<23		64	23	ug/Kg	☼	05/01/17 11:20	05/15/17 15:25	50
Bromochloromethane	<27 *		64	27	ug/Kg	☼	05/01/17 11:20	05/15/17 15:25	50
Bromodichloromethane	<24		64	24	ug/Kg	☼	05/01/17 11:20	05/15/17 15:25	50
Bromoform	<31		64	31	ug/Kg	☼	05/01/17 11:20	05/15/17 15:25	50
Bromomethane	<51		130	51	ug/Kg	☼	05/01/17 11:20	05/15/17 15:25	50
Carbon tetrachloride	<25		64	25	ug/Kg	☼	05/01/17 11:20	05/15/17 15:25	50
Chlorobenzene	<25		64	25	ug/Kg	☼	05/01/17 11:20	05/15/17 15:25	50
Chloroethane	<32		64	32	ug/Kg	☼	05/01/17 11:20	05/15/17 15:25	50
Chloroform	<24 *		130	24	ug/Kg	☼	05/01/17 11:20	05/15/17 15:25	50
Chloromethane	<21		64	21	ug/Kg	☼	05/01/17 11:20	05/15/17 15:25	50
cis-1,2-Dichloroethene	<26 *		64	26	ug/Kg	☼	05/01/17 11:20	05/15/17 15:25	50
cis-1,3-Dichloropropene	<27		64	27	ug/Kg	☼	05/01/17 11:20	05/15/17 15:25	50
Dibromochloromethane	<31		64	31	ug/Kg	☼	05/01/17 11:20	05/15/17 15:25	50
Dibromomethane	<17		64	17	ug/Kg	☼	05/01/17 11:20	05/15/17 15:25	50
Dichlorodifluoromethane	<43		130	43	ug/Kg	☼	05/01/17 11:20	05/15/17 15:25	50
Ethylbenzene	<12		16	12	ug/Kg	☼	05/01/17 11:20	05/15/17 15:25	50
Hexachlorobutadiene	<29		64	29	ug/Kg	☼	05/01/17 11:20	05/15/17 15:25	50
Isopropyl ether	<18		64	18	ug/Kg	☼	05/01/17 11:20	05/15/17 15:25	50
Isopropylbenzene	<25		64	25	ug/Kg	☼	05/01/17 11:20	05/15/17 15:25	50
Methyl tert-butyl ether	<25 *		64	25	ug/Kg	☼	05/01/17 11:20	05/15/17 15:25	50
Methylene Chloride	<100 *		320	100	ug/Kg	☼	05/01/17 11:20	05/15/17 15:25	50
Naphthalene	<21 *		64	21	ug/Kg	☼	05/01/17 11:20	05/15/17 15:25	50
n-Butylbenzene	<25		64	25	ug/Kg	☼	05/01/17 11:20	05/15/17 15:25	50
N-Propylbenzene	<27		64	27	ug/Kg	☼	05/01/17 11:20	05/15/17 15:25	50
p-Isopropyltoluene	<23		64	23	ug/Kg	☼	05/01/17 11:20	05/15/17 15:25	50
sec-Butylbenzene	<26		64	26	ug/Kg	☼	05/01/17 11:20	05/15/17 15:25	50
Styrene	<25 *		64	25	ug/Kg	☼	05/01/17 11:20	05/15/17 15:25	50
tert-Butylbenzene	<26		64	26	ug/Kg	☼	05/01/17 11:20	05/15/17 15:25	50
Tetrachloroethene	<24		64	24	ug/Kg	☼	05/01/17 11:20	05/15/17 15:25	50
Toluene	<9.4		16	9.4	ug/Kg	☼	05/01/17 11:20	05/15/17 15:25	50
trans-1,2-Dichloroethene	<22 *		64	22	ug/Kg	☼	05/01/17 11:20	05/15/17 15:25	50
trans-1,3-Dichloropropene	<23		64	23	ug/Kg	☼	05/01/17 11:20	05/15/17 15:25	50
Trichloroethene	<11		32	11	ug/Kg	☼	05/01/17 11:20	05/15/17 15:25	50
Trichlorofluoromethane	<27 *		64	27	ug/Kg	☼	05/01/17 11:20	05/15/17 15:25	50
Vinyl chloride	<17 *		32	17	ug/Kg	☼	05/01/17 11:20	05/15/17 15:25	50

TestAmerica Chicago

Client Sample Results

Client: TRC Environmental Corporation.
Project/Site: STH 11 Kentucky to Kearney - 275788

TestAmerica Job ID: 500-127505-1

Client Sample ID: GP-05 (14-16)

Date Collected: 05/01/17 11:20

Date Received: 05/03/17 09:00

Lab Sample ID: 500-127505-12

Matrix: Solid

Percent Solids: 87.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Xylenes, Total	<14		32	14	ug/Kg	☼	05/01/17 11:20	05/15/17 15:25	50
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	98		75 - 126				05/01/17 11:20	05/15/17 15:25	50
4-Bromofluorobenzene (Surr)	92		72 - 124				05/01/17 11:20	05/15/17 15:25	50
Dibromofluoromethane	101		75 - 120				05/01/17 11:20	05/15/17 15:25	50
Toluene-d8 (Surr)	93		75 - 120				05/01/17 11:20	05/15/17 15:25	50

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	14		0.50	0.23	mg/Kg	☼	05/05/17 15:07	05/11/17 22:14	1

Client Sample ID: GP-06 (2-4)

Date Collected: 05/01/17 12:00

Date Received: 05/03/17 09:00

Lab Sample ID: 500-127505-13

Matrix: Solid

Percent Solids: 80.9

Method: WDNR - Wisconsin - Gasoline Range Organics (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<23		32	23	ug/Kg	☼	05/05/17 15:52	05/10/17 01:22	1
Ethylbenzene	<24		32	24	ug/Kg	☼	05/05/17 15:52	05/10/17 01:22	1
Methyl tert-butyl ether	<15		32	15	ug/Kg	☼	05/05/17 15:52	05/10/17 01:22	1
Naphthalene	<150		320	150	ug/Kg	☼	05/05/17 15:52	05/10/17 01:22	1
Toluene	<22		32	22	ug/Kg	☼	05/05/17 15:52	05/10/17 01:22	1
1,2,4-Trimethylbenzene	<19		32	19	ug/Kg	☼	05/05/17 15:52	05/10/17 01:22	1
1,3,5-Trimethylbenzene	<19		32	19	ug/Kg	☼	05/05/17 15:52	05/10/17 01:22	1
Xylenes, Total	<38		96	38	ug/Kg	☼	05/05/17 15:52	05/10/17 01:22	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	86		80 - 120				05/05/17 15:52	05/10/17 01:22	1

Client Sample ID: GP-06 (6-8)

Date Collected: 05/01/17 12:05

Date Received: 05/03/17 09:00

Lab Sample ID: 500-127505-14

Matrix: Solid

Percent Solids: 84.9

Method: WDNR - Wisconsin - Gasoline Range Organics (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<21		29	21	ug/Kg	☼	05/05/17 15:52	05/10/17 01:49	1
Ethylbenzene	<22		29	22	ug/Kg	☼	05/05/17 15:52	05/10/17 01:49	1
Methyl tert-butyl ether	<14		29	14	ug/Kg	☼	05/05/17 15:52	05/10/17 01:49	1
Naphthalene	<140		290	140	ug/Kg	☼	05/05/17 15:52	05/10/17 01:49	1
Toluene	<19		29	19	ug/Kg	☼	05/05/17 15:52	05/10/17 01:49	1
1,2,4-Trimethylbenzene	<17		29	17	ug/Kg	☼	05/05/17 15:52	05/10/17 01:49	1
1,3,5-Trimethylbenzene	<17		29	17	ug/Kg	☼	05/05/17 15:52	05/10/17 01:49	1
Xylenes, Total	<34		86	34	ug/Kg	☼	05/05/17 15:52	05/10/17 01:49	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	91		80 - 120				05/05/17 15:52	05/10/17 01:49	1

TestAmerica Chicago

Client Sample Results

Client: TRC Environmental Corporation.
Project/Site: STH 11 Kentucky to Kearney - 275788

TestAmerica Job ID: 500-127505-1

Client Sample ID: GP-07 (2-4)

Date Collected: 05/01/17 12:30

Date Received: 05/03/17 09:00

Lab Sample ID: 500-127505-15

Matrix: Solid

Percent Solids: 79.5

Method: WDNR - Wisconsin - Gasoline Range Organics (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<22		30	22	ug/Kg	☼	05/05/17 15:52	05/10/17 02:15	1
Ethylbenzene	<23		30	23	ug/Kg	☼	05/05/17 15:52	05/10/17 02:15	1
Methyl tert-butyl ether	<15		30	15	ug/Kg	☼	05/05/17 15:52	05/10/17 02:15	1
Naphthalene	<150		300	150	ug/Kg	☼	05/05/17 15:52	05/10/17 02:15	1
Toluene	<21		30	21	ug/Kg	☼	05/05/17 15:52	05/10/17 02:15	1
1,2,4-Trimethylbenzene	<18		30	18	ug/Kg	☼	05/05/17 15:52	05/10/17 02:15	1
1,3,5-Trimethylbenzene	<18		30	18	ug/Kg	☼	05/05/17 15:52	05/10/17 02:15	1
Xylenes, Total	<37		91	37	ug/Kg	☼	05/05/17 15:52	05/10/17 02:15	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>a,a,a-Trifluorotoluene</i>	88		80 - 120	05/05/17 15:52	05/10/17 02:15	1

Client Sample ID: GP-07 (6-8)

Date Collected: 05/01/17 12:35

Date Received: 05/03/17 09:00

Lab Sample ID: 500-127505-16

Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	<0.010		0.020	0.010	mg/L			05/09/17 01:09	20
1,2-Dichloroethane	<0.010		0.020	0.010	mg/L			05/09/17 01:09	20
Benzene	<0.010		0.020	0.010	mg/L			05/09/17 01:09	20
Carbon tetrachloride	<0.010		0.020	0.010	mg/L			05/09/17 01:09	20
Chlorobenzene	<0.010		0.020	0.010	mg/L			05/09/17 01:09	20
Chloroform	<0.020		0.040	0.020	mg/L			05/09/17 01:09	20
Methyl Ethyl Ketone	<0.050		0.10	0.050	mg/L			05/09/17 01:09	20
Tetrachloroethene	<0.010		0.020	0.010	mg/L			05/09/17 01:09	20
Trichloroethene	<0.010		0.020	0.010	mg/L			05/09/17 01:09	20
Vinyl chloride	<0.010		0.020	0.010	mg/L			05/09/17 01:09	20

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>1,2-Dichloroethane-d4 (Surr)</i>	104		75 - 126		05/09/17 01:09	20
<i>4-Bromofluorobenzene (Surr)</i>	108		72 - 124		05/09/17 01:09	20
<i>Dibromofluoromethane</i>	90		75 - 120		05/09/17 01:09	20
<i>Toluene-d8 (Surr)</i>	101		75 - 120		05/09/17 01:09	20

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	<0.020		0.020	0.020	mg/L		05/08/17 07:42	05/08/17 17:46	1
2,4,5-Trichlorophenol	<0.10		0.10	0.10	mg/L		05/08/17 07:42	05/08/17 17:46	1
2,4,6-Trichlorophenol	<0.050		0.050	0.050	mg/L		05/08/17 07:42	05/08/17 17:46	1
2,4-Dinitrotoluene	<0.010		0.010	0.010	mg/L		05/08/17 07:42	05/08/17 17:46	1
2-Methylphenol	<0.020		0.020	0.020	mg/L		05/08/17 07:42	05/08/17 17:46	1
3 & 4 Methylphenol	<0.020		0.020	0.020	mg/L		05/08/17 07:42	05/08/17 17:46	1
Hexachlorobenzene	<0.0050		0.0050	0.0050	mg/L		05/08/17 07:42	05/08/17 17:46	1
Hexachlorobutadiene	<0.050		0.050	0.050	mg/L		05/08/17 07:42	05/08/17 17:46	1
Hexachloroethane	<0.050		0.050	0.050	mg/L		05/08/17 07:42	05/08/17 17:46	1
Nitrobenzene	<0.010		0.010	0.010	mg/L		05/08/17 07:42	05/08/17 17:46	1
Pentachlorophenol	<0.20		0.20	0.20	mg/L		05/08/17 07:42	05/08/17 17:46	1
Pyridine	<0.20		0.20	0.20	mg/L		05/08/17 07:42	05/08/17 17:46	1

TestAmerica Chicago

Client Sample Results

Client: TRC Environmental Corporation.
Project/Site: STH 11 Kentucky to Kearney - 275788

TestAmerica Job ID: 500-127505-1

Client Sample ID: GP-07 (6-8)

Lab Sample ID: 500-127505-16

Date Collected: 05/01/17 12:35

Matrix: Solid

Date Received: 05/03/17 09:00

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	87		40 - 145	05/08/17 07:42	05/08/17 17:46	1
2-Fluorobiphenyl	87		34 - 110	05/08/17 07:42	05/08/17 17:46	1
2-Fluorophenol (Surr)	60		27 - 110	05/08/17 07:42	05/08/17 17:46	1
Nitrobenzene-d5 (Surr)	96		36 - 120	05/08/17 07:42	05/08/17 17:46	1
Phenol-d5 (Surr)	41		20 - 100	05/08/17 07:42	05/08/17 17:46	1
Terphenyl-d14 (Surr)	103		40 - 145	05/08/17 07:42	05/08/17 17:46	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.010		0.050	0.010	mg/L		05/08/17 08:10	05/08/17 21:45	1
Barium	0.38	J	0.50	0.050	mg/L		05/08/17 08:10	05/08/17 21:45	1
Cadmium	0.0027	J	0.0050	0.0020	mg/L		05/08/17 08:10	05/08/17 21:45	1
Chromium	<0.010		0.025	0.010	mg/L		05/08/17 08:10	05/08/17 21:45	1
Copper	<0.010		0.025	0.010	mg/L		05/08/17 08:10	05/08/17 21:45	1
Lead	<0.0075		0.050	0.0075	mg/L		05/08/17 08:10	05/08/17 21:45	1
Nickel	<0.010		0.025	0.010	mg/L		05/08/17 08:10	05/08/17 21:45	1
Selenium	<0.020		0.050	0.020	mg/L		05/08/17 08:10	05/08/17 21:45	1
Silver	<0.010		0.025	0.010	mg/L		05/08/17 08:10	05/08/17 21:45	1
Zinc	<0.020		0.10	0.020	mg/L		05/08/17 08:10	05/08/17 21:45	1

Method: 7470A - Mercury (CVAA) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		05/08/17 13:40	05/09/17 10:13	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Flashpoint	>176		40.0	40.0	Degrees F			05/11/17 18:10	1
Cyanide, Total	<0.16		0.45	0.16	mg/Kg		05/10/17 12:50	05/10/17 15:37	1
Sulfide	8.8	J	10	4.7	mg/Kg		05/15/17 17:36	05/15/17 21:49	1
pH	9.1		0.2	0.2	SU			05/09/17 16:04	1
Paint Filter	PASS				No Unit			05/11/17 22:41	1
Specific Gravity	2.1987				NONE			05/12/17 22:11	1

Client Sample ID: GP-07 (6-8)

Lab Sample ID: 500-127505-16

Date Collected: 05/01/17 12:35

Matrix: Solid

Date Received: 05/03/17 09:00

Percent Solids: 87.2

Method: WDNR - Wisconsin - Gasoline Range Organics (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trimethylbenzene	<17		28	17	ug/Kg	☼	05/05/17 15:52	05/10/17 02:42	1
1,3,5-Trimethylbenzene	<17		28	17	ug/Kg	☼	05/05/17 15:52	05/10/17 02:42	1
Benzene	<20		28	20	ug/Kg	☼	05/05/17 15:52	05/10/17 02:42	1
Ethylbenzene	<21		28	21	ug/Kg	☼	05/05/17 15:52	05/10/17 02:42	1
Methyl tert-butyl ether	<14		28	14	ug/Kg	☼	05/05/17 15:52	05/10/17 02:42	1
Naphthalene	<140		280	140	ug/Kg	☼	05/05/17 15:52	05/10/17 02:42	1
Toluene	<19		28	19	ug/Kg	☼	05/05/17 15:52	05/10/17 02:42	1
Xylenes, Total	<34		84	34	ug/Kg	☼	05/05/17 15:52	05/10/17 02:42	1
Wisconsin GRO	<2800		5600	2800	ug/Kg	☼	05/05/17 15:52	05/10/17 02:42	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	91		80 - 120	05/05/17 15:52	05/10/17 02:42	1

TestAmerica Chicago

Client Sample Results

Client: TRC Environmental Corporation.
Project/Site: STH 11 Kentucky to Kearney - 275788

TestAmerica Job ID: 500-127505-1

Client Sample ID: GP-07 (6-8)

Date Collected: 05/01/17 12:35

Date Received: 05/03/17 09:00

Lab Sample ID: 500-127505-16

Matrix: Solid

Percent Solids: 87.2

Method: WDNR - Wisconsin - Gasoline Range Organics (GC) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>a,a,a</i> -Trifluorotoluene	98		80 - 120	05/05/17 15:52	05/10/17 02:42	1

Method: 8082A - 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	☼	05/09/17 16:38	05/10/17 13:50	1
PCB-1221	<8.2		19	8.2	ug/Kg	☼	05/09/17 16:38	05/10/17 13:50	1
PCB-1232	<8.2		19	8.2	ug/Kg	☼	05/09/17 16:38	05/10/17 13:50	1
PCB-1242	<6.1		19	6.1	ug/Kg	☼	05/09/17 16:38	05/10/17 13:50	1
PCB-1248	<7.4		19	7.4	ug/Kg	☼	05/09/17 16:38	05/10/17 13:50	1
PCB-1254	<4.0		19	4.0	ug/Kg	☼	05/09/17 16:38	05/10/17 13:50	1
PCB-1260	<9.2		19	9.2	ug/Kg	☼	05/09/17 16:38	05/10/17 13:50	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro- <i>m</i> -xylene	68		49 - 129	05/09/17 16:38	05/10/17 13:50	1
DCB Decachlorobiphenyl	67		37 - 121	05/09/17 16:38	05/10/17 13:50	1

Method: WI-DRO - Wisconsin - Diesel Range Organics (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
WI Diesel Range Organics (C10-C28)	2.2	J	4.5	1.8	mg/Kg	☼	05/04/17 11:15	05/05/17 16:14	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>n</i> -Nonane	77		44 - 148	05/04/17 11:15	05/05/17 16:14	1

Client Sample ID: GP-07 (14-16)

Date Collected: 05/01/17 12:50

Date Received: 05/03/17 09:00

Lab Sample ID: 500-127505-17

Matrix: Solid

Percent Solids: 86.6

Method: WDNR - Wisconsin - Gasoline Range Organics (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<20		28	20	ug/Kg	☼	05/05/17 15:52	05/10/17 03:09	1
Ethylbenzene	<21		28	21	ug/Kg	☼	05/05/17 15:52	05/10/17 03:09	1
Methyl tert-butyl ether	<13		28	13	ug/Kg	☼	05/05/17 15:52	05/10/17 03:09	1
Naphthalene	270	J	280	130	ug/Kg	☼	05/05/17 15:52	05/10/17 03:09	1
Toluene	<19		28	19	ug/Kg	☼	05/05/17 15:52	05/10/17 03:09	1
1,2,4-Trimethylbenzene	<17		28	17	ug/Kg	☼	05/05/17 15:52	05/10/17 03:09	1
1,3,5-Trimethylbenzene	23	J	28	17	ug/Kg	☼	05/05/17 15:52	05/10/17 03:09	1
Xylenes, Total	38	J	84	34	ug/Kg	☼	05/05/17 15:52	05/10/17 03:09	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>a,a,a</i> -Trifluorotoluene	90		80 - 120	05/05/17 15:52	05/10/17 03:09	1

Client Sample ID: GP-08 (2-4)

Date Collected: 05/01/17 13:45

Date Received: 05/03/17 09:00

Lab Sample ID: 500-127505-18

Matrix: Solid

Percent Solids: 88.4

Method: WDNR - Wisconsin - Gasoline Range Organics (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<21		29	21	ug/Kg	☼	05/05/17 15:52	05/10/17 08:04	1
Ethylbenzene	<22		29	22	ug/Kg	☼	05/05/17 15:52	05/10/17 08:04	1
Methyl tert-butyl ether	<14		29	14	ug/Kg	☼	05/05/17 15:52	05/10/17 08:04	1

TestAmerica Chicago

Client Sample Results

Client: TRC Environmental Corporation.
Project/Site: STH 11 Kentucky to Kearney - 275788

TestAmerica Job ID: 500-127505-1

Client Sample ID: GP-08 (2-4)

Date Collected: 05/01/17 13:45

Date Received: 05/03/17 09:00

Lab Sample ID: 500-127505-18

Matrix: Solid

Percent Solids: 88.4

Method: WDNR - Wisconsin - Gasoline Range Organics (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	<140		290	140	ug/Kg	☼	05/05/17 15:52	05/10/17 08:04	1
Toluene	<20		29	20	ug/Kg	☼	05/05/17 15:52	05/10/17 08:04	1
1,2,4-Trimethylbenzene	<17		29	17	ug/Kg	☼	05/05/17 15:52	05/10/17 08:04	1
1,3,5-Trimethylbenzene	<17		29	17	ug/Kg	☼	05/05/17 15:52	05/10/17 08:04	1
Xylenes, Total	<35		87	35	ug/Kg	☼	05/05/17 15:52	05/10/17 08:04	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>a,a,a-Trifluorotoluene</i>	91		80 - 120	05/05/17 15:52	05/10/17 08:04	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	9.9		0.51	0.24	mg/Kg	☼	05/05/17 15:07	05/11/17 22:19	1

Client Sample ID: GP-08 (6-8)

Date Collected: 05/01/17 13:50

Date Received: 05/03/17 09:00

Lab Sample ID: 500-127505-19

Matrix: Solid

Percent Solids: 89.1

Method: WDNR - Wisconsin - Gasoline Range Organics (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<20		28	20	ug/Kg	☼	05/05/17 15:52	05/10/17 03:36	1
Ethylbenzene	<21		28	21	ug/Kg	☼	05/05/17 15:52	05/10/17 03:36	1
Methyl tert-butyl ether	<13		28	13	ug/Kg	☼	05/05/17 15:52	05/10/17 03:36	1
Naphthalene	<130		280	130	ug/Kg	☼	05/05/17 15:52	05/10/17 03:36	1
Toluene	<19		28	19	ug/Kg	☼	05/05/17 15:52	05/10/17 03:36	1
1,2,4-Trimethylbenzene	<17		28	17	ug/Kg	☼	05/05/17 15:52	05/10/17 03:36	1
1,3,5-Trimethylbenzene	<17		28	17	ug/Kg	☼	05/05/17 15:52	05/10/17 03:36	1
Xylenes, Total	<33		83	33	ug/Kg	☼	05/05/17 15:52	05/10/17 03:36	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>a,a,a-Trifluorotoluene</i>	91		80 - 120	05/05/17 15:52	05/10/17 03:36	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	9.3		0.53	0.24	mg/Kg	☼	05/05/17 15:07	05/11/17 22:31	1

Client Sample ID: GP-09 (2-4)

Date Collected: 05/01/17 14:20

Date Received: 05/03/17 09:00

Lab Sample ID: 500-127505-20

Matrix: Solid

Percent Solids: 85.2

Method: WDNR - Wisconsin - Gasoline Range Organics (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<22		30	22	ug/Kg	☼	05/05/17 15:52	05/10/17 05:23	1
Ethylbenzene	<23		30	23	ug/Kg	☼	05/05/17 15:52	05/10/17 05:23	1
Methyl tert-butyl ether	<15		30	15	ug/Kg	☼	05/05/17 15:52	05/10/17 05:23	1
Naphthalene	<150		300	150	ug/Kg	☼	05/05/17 15:52	05/10/17 05:23	1
Toluene	36		30	21	ug/Kg	☼	05/05/17 15:52	05/10/17 05:23	1
1,2,4-Trimethylbenzene	<18		30	18	ug/Kg	☼	05/05/17 15:52	05/10/17 05:23	1
1,3,5-Trimethylbenzene	<18		30	18	ug/Kg	☼	05/05/17 15:52	05/10/17 05:23	1
Xylenes, Total	<36		91	36	ug/Kg	☼	05/05/17 15:52	05/10/17 05:23	1

TestAmerica Chicago

Client Sample Results

Client: TRC Environmental Corporation.
Project/Site: STH 11 Kentucky to Kearney - 275788

TestAmerica Job ID: 500-127505-1

Client Sample ID: GP-09 (2-4)

Date Collected: 05/01/17 14:20

Date Received: 05/03/17 09:00

Lab Sample ID: 500-127505-20

Matrix: Solid

Percent Solids: 85.2

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	90		80 - 120	05/05/17 15:52	05/10/17 05:23	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	13		0.54	0.25	mg/Kg	☼	05/05/17 15:07	05/11/17 22:35	1

Client Sample ID: GP-09 (6-8)

Date Collected: 05/01/17 14:25

Date Received: 05/03/17 09:00

Lab Sample ID: 500-127505-21

Matrix: Solid

Percent Solids: 84.7

Method: WDNR - Wisconsin - Gasoline Range Organics (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<21		29	21	ug/Kg	☼	05/05/17 15:52	05/10/17 05:50	1
Ethylbenzene	<22		29	22	ug/Kg	☼	05/05/17 15:52	05/10/17 05:50	1
Methyl tert-butyl ether	<14		29	14	ug/Kg	☼	05/05/17 15:52	05/10/17 05:50	1
Naphthalene	<140		290	140	ug/Kg	☼	05/05/17 15:52	05/10/17 05:50	1
Toluene	<20		29	20	ug/Kg	☼	05/05/17 15:52	05/10/17 05:50	1
1,2,4-Trimethylbenzene	20	J	29	17	ug/Kg	☼	05/05/17 15:52	05/10/17 05:50	1
1,3,5-Trimethylbenzene	<17		29	17	ug/Kg	☼	05/05/17 15:52	05/10/17 05:50	1
Xylenes, Total	<35		87	35	ug/Kg	☼	05/05/17 15:52	05/10/17 05:50	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	90		80 - 120	05/05/17 15:52	05/10/17 05:50	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	8.0		0.55	0.25	mg/Kg	☼	05/05/17 15:07	05/11/17 22:40	1

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

Date Collected: 05/01/17 14:35

Date Received: 05/03/17 09:00

Lab Sample ID: 500-127505-22

Matrix: Solid

Percent Solids: 83.2

Method: WDNR - Wisconsin - Gasoline Range Organics (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<22		30	22	ug/Kg	☼	05/05/17 15:52	05/10/17 06:16	1
Ethylbenzene	<23		30	23	ug/Kg	☼	05/05/17 15:52	05/10/17 06:16	1
Methyl tert-butyl ether	<15		30	15	ug/Kg	☼	05/05/17 15:52	05/10/17 06:16	1
Naphthalene	<150		300	150	ug/Kg	☼	05/05/17 15:52	05/10/17 06:16	1
Toluene	<21		30	21	ug/Kg	☼	05/05/17 15:52	05/10/17 06:16	1
1,2,4-Trimethylbenzene	<18		30	18	ug/Kg	☼	05/05/17 15:52	05/10/17 06:16	1
1,3,5-Trimethylbenzene	<18		30	18	ug/Kg	☼	05/05/17 15:52	05/10/17 06:16	1
Xylenes, Total	<37		91	37	ug/Kg	☼	05/05/17 15:52	05/10/17 06:16	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	91		80 - 120	05/05/17 15:52	05/10/17 06:16	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	14		0.56	0.26	mg/Kg	☼	05/05/17 15:07	05/11/17 22:44	1

TestAmerica Chicago

Client Sample Results

Client: TRC Environmental Corporation.
Project/Site: STH 11 Kentucky to Kearney - 275788

TestAmerica Job ID: 500-127505-1

Client Sample ID: GP-10 (6-8)

Lab Sample ID: 500-127505-23

Date Collected: 05/01/17 14:40

Matrix: Solid

Date Received: 05/03/17 09:00

Percent Solids: 84.7

Method: WDNR - Wisconsin - Gasoline Range Organics (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<21		29	21	ug/Kg	☼	05/05/17 15:52	05/10/17 06:43	1
Ethylbenzene	<22		29	22	ug/Kg	☼	05/05/17 15:52	05/10/17 06:43	1
Methyl tert-butyl ether	<14		29	14	ug/Kg	☼	05/05/17 15:52	05/10/17 06:43	1
Naphthalene	<140		290	140	ug/Kg	☼	05/05/17 15:52	05/10/17 06:43	1
Toluene	<20		29	20	ug/Kg	☼	05/05/17 15:52	05/10/17 06:43	1
1,2,4-Trimethylbenzene	<18		29	18	ug/Kg	☼	05/05/17 15:52	05/10/17 06:43	1
1,3,5-Trimethylbenzene	<18		29	18	ug/Kg	☼	05/05/17 15:52	05/10/17 06:43	1
Xylenes, Total	<35		88	35	ug/Kg	☼	05/05/17 15:52	05/10/17 06:43	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	91		80 - 120	05/05/17 15:52	05/10/17 06:43	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	9.9		0.53	0.24	mg/Kg	☼	05/05/17 15:07	05/11/17 22:47	1

Client Sample ID: GP-11 (2-4)

Lab Sample ID: 500-127505-24

Date Collected: 05/01/17 15:00

Matrix: Solid

Date Received: 05/03/17 09:00

Percent Solids: 88.4

Method: WDNR - Wisconsin - Gasoline Range Organics (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<20		28	20	ug/Kg	☼	05/05/17 15:52	05/10/17 07:10	1
Ethylbenzene	60		28	22	ug/Kg	☼	05/05/17 15:52	05/10/17 07:10	1
Methyl tert-butyl ether	<14		28	14	ug/Kg	☼	05/05/17 15:52	05/10/17 07:10	1
Naphthalene	<140		280	140	ug/Kg	☼	05/05/17 15:52	05/10/17 07:10	1
Toluene	<19		28	19	ug/Kg	☼	05/05/17 15:52	05/10/17 07:10	1
1,2,4-Trimethylbenzene	31		28	17	ug/Kg	☼	05/05/17 15:52	05/10/17 07:10	1
1,3,5-Trimethylbenzene	<17		28	17	ug/Kg	☼	05/05/17 15:52	05/10/17 07:10	1
Xylenes, Total	110		85	34	ug/Kg	☼	05/05/17 15:52	05/10/17 07:10	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	95		80 - 120	05/05/17 15:52	05/10/17 07:10	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	63		0.49	0.23	mg/Kg	☼	05/05/17 15:07	05/11/17 22:50	1

Client Sample ID: GP-11 (6-8)

Lab Sample ID: 500-127505-25

Date Collected: 05/01/17 15:05

Matrix: Solid

Date Received: 05/03/17 09:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	<0.010		0.020	0.010	mg/L			05/09/17 01:35	20
1,2-Dichloroethane	<0.010		0.020	0.010	mg/L			05/09/17 01:35	20
Benzene	<0.010		0.020	0.010	mg/L			05/09/17 01:35	20
Carbon tetrachloride	<0.010		0.020	0.010	mg/L			05/09/17 01:35	20
Chlorobenzene	<0.010		0.020	0.010	mg/L			05/09/17 01:35	20
Chloroform	<0.020		0.040	0.020	mg/L			05/09/17 01:35	20
Methyl Ethyl Ketone	<0.050		0.10	0.050	mg/L			05/09/17 01:35	20

TestAmerica Chicago

Client Sample Results

Client: TRC Environmental Corporation.
Project/Site: STH 11 Kentucky to Kearney - 275788

TestAmerica Job ID: 500-127505-1

Client Sample ID: GP-11 (6-8)

Lab Sample ID: 500-127505-25

Date Collected: 05/01/17 15:05

Matrix: Solid

Date Received: 05/03/17 09:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	<0.010		0.020	0.010	mg/L			05/09/17 01:35	20
Trichloroethene	<0.010		0.020	0.010	mg/L			05/09/17 01:35	20
Vinyl chloride	<0.010		0.020	0.010	mg/L			05/09/17 01:35	20
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	105		75 - 126					05/09/17 01:35	20
4-Bromofluorobenzene (Surr)	114		72 - 124					05/09/17 01:35	20
Dibromofluoromethane	91		75 - 120					05/09/17 01:35	20
Toluene-d8 (Surr)	100		75 - 120					05/09/17 01:35	20

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	<0.020		0.020	0.020	mg/L		05/08/17 07:42	05/08/17 18:13	1
2,4,5-Trichlorophenol	<0.10		0.10	0.10	mg/L		05/08/17 07:42	05/08/17 18:13	1
2,4,6-Trichlorophenol	<0.050		0.050	0.050	mg/L		05/08/17 07:42	05/08/17 18:13	1
2,4-Dinitrotoluene	<0.010		0.010	0.010	mg/L		05/08/17 07:42	05/08/17 18:13	1
2-Methylphenol	<0.020		0.020	0.020	mg/L		05/08/17 07:42	05/08/17 18:13	1
3 & 4 Methylphenol	<0.020		0.020	0.020	mg/L		05/08/17 07:42	05/08/17 18:13	1
Hexachlorobenzene	<0.0050		0.0050	0.0050	mg/L		05/08/17 07:42	05/08/17 18:13	1
Hexachlorobutadiene	<0.050		0.050	0.050	mg/L		05/08/17 07:42	05/08/17 18:13	1
Hexachloroethane	<0.050		0.050	0.050	mg/L		05/08/17 07:42	05/08/17 18:13	1
Nitrobenzene	<0.010		0.010	0.010	mg/L		05/08/17 07:42	05/08/17 18:13	1
Pentachlorophenol	<0.20		0.20	0.20	mg/L		05/08/17 07:42	05/08/17 18:13	1
Pyridine	<0.20		0.20	0.20	mg/L		05/08/17 07:42	05/08/17 18:13	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	86		40 - 145				05/08/17 07:42	05/08/17 18:13	1
2-Fluorobiphenyl	86		34 - 110				05/08/17 07:42	05/08/17 18:13	1
2-Fluorophenol (Surr)	57		27 - 110				05/08/17 07:42	05/08/17 18:13	1
Nitrobenzene-d5 (Surr)	93		36 - 120				05/08/17 07:42	05/08/17 18:13	1
Phenol-d5 (Surr)	40		20 - 100				05/08/17 07:42	05/08/17 18:13	1
Terphenyl-d14 (Surr)	100		40 - 145				05/08/17 07:42	05/08/17 18:13	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.010		0.050	0.010	mg/L		05/08/17 08:10	05/08/17 21:50	1
Barium	0.15	J	0.50	0.050	mg/L		05/08/17 08:10	05/08/17 21:50	1
Cadmium	0.0040	J	0.0050	0.0020	mg/L		05/08/17 08:10	05/08/17 21:50	1
Chromium	<0.010		0.025	0.010	mg/L		05/08/17 08:10	05/08/17 21:50	1
Copper	0.011	J	0.025	0.010	mg/L		05/08/17 08:10	05/08/17 21:50	1
Lead	0.034	J	0.050	0.0075	mg/L		05/08/17 08:10	05/08/17 21:50	1
Nickel	0.024	J	0.025	0.010	mg/L		05/08/17 08:10	05/08/17 21:50	1
Selenium	<0.020		0.050	0.020	mg/L		05/08/17 08:10	05/08/17 21:50	1
Silver	<0.010		0.025	0.010	mg/L		05/08/17 08:10	05/08/17 21:50	1
Zinc	0.030	J	0.10	0.020	mg/L		05/08/17 08:10	05/08/17 21:50	1

Method: 7470A - Mercury (CVAA) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		05/08/17 13:40	05/09/17 10:15	1

TestAmerica Chicago

Client Sample Results

Client: TRC Environmental Corporation.
Project/Site: STH 11 Kentucky to Kearney - 275788

TestAmerica Job ID: 500-127505-1

Client Sample ID: GP-11 (6-8)

Lab Sample ID: 500-127505-25

Date Collected: 05/01/17 15:05

Matrix: Solid

Date Received: 05/03/17 09:00

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Flashpoint	>176		40.0	40.0	Degrees F			05/11/17 20:00	1
Cyanide, Total	<0.13		0.37	0.13	mg/Kg		05/10/17 12:50	05/10/17 15:37	1
Sulfide	6.2	J	9.7	4.6	mg/Kg		05/15/17 17:36	05/15/17 21:51	1
pH	8.8		0.2	0.2	SU			05/09/17 16:06	1
Paint Filter	PASS				No Unit			05/11/17 22:43	1
Specific Gravity	1.1838				NONE			05/12/17 22:15	1

Client Sample ID: GP-11 (6-8)

Lab Sample ID: 500-127505-25

Date Collected: 05/01/17 15:05

Matrix: Solid

Date Received: 05/03/17 09:00

Percent Solids: 89.3

Method: WDNR - Wisconsin - Gasoline Range Organics (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trimethylbenzene	<16		27	16	ug/Kg	☼	05/05/17 15:52	05/10/17 07:37	1
1,3,5-Trimethylbenzene	<16		27	16	ug/Kg	☼	05/05/17 15:52	05/10/17 07:37	1
Benzene	<19		27	19	ug/Kg	☼	05/05/17 15:52	05/10/17 07:37	1
Ethylbenzene	<20		27	20	ug/Kg	☼	05/05/17 15:52	05/10/17 07:37	1
Methyl tert-butyl ether	<13		27	13	ug/Kg	☼	05/05/17 15:52	05/10/17 07:37	1
Naphthalene	<130		270	130	ug/Kg	☼	05/05/17 15:52	05/10/17 07:37	1
Toluene	<18		27	18	ug/Kg	☼	05/05/17 15:52	05/10/17 07:37	1
Xylenes, Total	<32		80	32	ug/Kg	☼	05/05/17 15:52	05/10/17 07:37	1
Wisconsin GRO	<2700		5300	2700	ug/Kg	☼	05/05/17 15:52	05/10/17 07:37	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>a,a,a-Trifluorotoluene</i>	91		80 - 120				05/05/17 15:52	05/10/17 07:37	1
<i>a,a,a-Trifluorotoluene</i>	96		80 - 120				05/05/17 15:52	05/10/17 07:37	1

Method: 8082A - 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	☼	05/09/17 16:38	05/10/17 14:06	1
PCB-1221	<8.1		19	8.1	ug/Kg	☼	05/09/17 16:38	05/10/17 14:06	1
PCB-1232	<8.1		19	8.1	ug/Kg	☼	05/09/17 16:38	05/10/17 14:06	1
PCB-1242	<6.1		19	6.1	ug/Kg	☼	05/09/17 16:38	05/10/17 14:06	1
PCB-1248	<7.3		19	7.3	ug/Kg	☼	05/09/17 16:38	05/10/17 14:06	1
PCB-1254	<4.0		19	4.0	ug/Kg	☼	05/09/17 16:38	05/10/17 14:06	1
PCB-1260	<9.1		19	9.1	ug/Kg	☼	05/09/17 16:38	05/10/17 14:06	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>Tetrachloro-m-xylene</i>	64		49 - 129				05/09/17 16:38	05/10/17 14:06	1
<i>DCB Decachlorobiphenyl</i>	78		37 - 121				05/09/17 16:38	05/10/17 14:06	1

Method: WI-DRO - Wisconsin - Diesel Range Organics (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
WI Diesel Range Organics (C10-C28)	4.9		4.4	1.8	mg/Kg	☼	05/04/17 11:15	05/05/17 16:49	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>n-Nonane</i>	71		44 - 148				05/04/17 11:15	05/05/17 16:49	1

TestAmerica Chicago

Client Sample Results

Client: TRC Environmental Corporation.
Project/Site: STH 11 Kentucky to Kearney - 275788

TestAmerica Job ID: 500-127505-1

Client Sample ID: GP-11 (6-8)

Lab Sample ID: 500-127505-25

Date Collected: 05/01/17 15:05

Matrix: Solid

Date Received: 05/03/17 09:00

Percent Solids: 89.3

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	11		0.52	0.24	mg/Kg	☼	05/05/17 15:07	05/11/17 22:53	1

Client Sample ID: Trip Blank

Lab Sample ID: 500-127505-26

Date Collected: 05/01/17 00:00

Matrix: Solid

Date Received: 05/03/17 09:00

Percent Solids: 100.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<23		50	23	ug/Kg	☼	05/01/17 00:00	05/15/17 15:55	50
1,1,1-Trichloroethane	<19		50	19	ug/Kg	☼	05/01/17 00:00	05/15/17 15:55	50
1,1,2,2-Tetrachloroethane	<20		50	20	ug/Kg	☼	05/01/17 00:00	05/15/17 15:55	50
1,1,2-Trichloroethane	<18		50	18	ug/Kg	☼	05/01/17 00:00	05/15/17 15:55	50
1,1-Dichloroethane	<21 *		50	21	ug/Kg	☼	05/01/17 00:00	05/15/17 15:55	50
1,1-Dichloroethene	<20 *		50	20	ug/Kg	☼	05/01/17 00:00	05/15/17 15:55	50
1,1-Dichloropropene	<15		50	15	ug/Kg	☼	05/01/17 00:00	05/15/17 15:55	50
1,2,3-Trichlorobenzene	<23		50	23	ug/Kg	☼	05/01/17 00:00	05/15/17 15:55	50
1,2,3-Trichloropropane	<21		50	21	ug/Kg	☼	05/01/17 00:00	05/15/17 15:55	50
1,2,4-Trichlorobenzene	<17		50	17	ug/Kg	☼	05/01/17 00:00	05/15/17 15:55	50
1,2,4-Trimethylbenzene	<18		50	18	ug/Kg	☼	05/01/17 00:00	05/15/17 15:55	50
1,2-Dibromo-3-Chloropropane	<100		250	100	ug/Kg	☼	05/01/17 00:00	05/15/17 15:55	50
1,2-Dibromoethane	<19		50	19	ug/Kg	☼	05/01/17 00:00	05/15/17 15:55	50
1,2-Dichlorobenzene	<17		50	17	ug/Kg	☼	05/01/17 00:00	05/15/17 15:55	50
1,2-Dichloroethane	<20		50	20	ug/Kg	☼	05/01/17 00:00	05/15/17 15:55	50
1,2-Dichloropropane	<21		50	21	ug/Kg	☼	05/01/17 00:00	05/15/17 15:55	50
1,3,5-Trimethylbenzene	<19		50	19	ug/Kg	☼	05/01/17 00:00	05/15/17 15:55	50
1,3-Dichlorobenzene	<20		50	20	ug/Kg	☼	05/01/17 00:00	05/15/17 15:55	50
1,3-Dichloropropane	<18		50	18	ug/Kg	☼	05/01/17 00:00	05/15/17 15:55	50
1,4-Dichlorobenzene	<18		50	18	ug/Kg	☼	05/01/17 00:00	05/15/17 15:55	50
2,2-Dichloropropane	<22		50	22	ug/Kg	☼	05/01/17 00:00	05/15/17 15:55	50
2-Chlorotoluene	<16		50	16	ug/Kg	☼	05/01/17 00:00	05/15/17 15:55	50
4-Chlorotoluene	<18		50	18	ug/Kg	☼	05/01/17 00:00	05/15/17 15:55	50
Benzene	<7.3		13	7.3	ug/Kg	☼	05/01/17 00:00	05/15/17 15:55	50
Bromobenzene	<18		50	18	ug/Kg	☼	05/01/17 00:00	05/15/17 15:55	50
Bromochloromethane	<21 *		50	21	ug/Kg	☼	05/01/17 00:00	05/15/17 15:55	50
Bromodichloromethane	<19		50	19	ug/Kg	☼	05/01/17 00:00	05/15/17 15:55	50
Bromoform	<24		50	24	ug/Kg	☼	05/01/17 00:00	05/15/17 15:55	50
Bromomethane	<40		100	40	ug/Kg	☼	05/01/17 00:00	05/15/17 15:55	50
Carbon tetrachloride	<19		50	19	ug/Kg	☼	05/01/17 00:00	05/15/17 15:55	50
Chlorobenzene	<19		50	19	ug/Kg	☼	05/01/17 00:00	05/15/17 15:55	50
Chloroethane	<25		50	25	ug/Kg	☼	05/01/17 00:00	05/15/17 15:55	50
Chloroform	<19 *		100	19	ug/Kg	☼	05/01/17 00:00	05/15/17 15:55	50
Chloromethane	<16		50	16	ug/Kg	☼	05/01/17 00:00	05/15/17 15:55	50
cis-1,2-Dichloroethene	<20 *		50	20	ug/Kg	☼	05/01/17 00:00	05/15/17 15:55	50
cis-1,3-Dichloropropene	<21		50	21	ug/Kg	☼	05/01/17 00:00	05/15/17 15:55	50
Dibromochloromethane	<24		50	24	ug/Kg	☼	05/01/17 00:00	05/15/17 15:55	50
Dibromomethane	<14		50	14	ug/Kg	☼	05/01/17 00:00	05/15/17 15:55	50
Dichlorodifluoromethane	<34		100	34	ug/Kg	☼	05/01/17 00:00	05/15/17 15:55	50
Ethylbenzene	<9.2		13	9.2	ug/Kg	☼	05/01/17 00:00	05/15/17 15:55	50
Hexachlorobutadiene	<22		50	22	ug/Kg	☼	05/01/17 00:00	05/15/17 15:55	50
Isopropyl ether	<14		50	14	ug/Kg	☼	05/01/17 00:00	05/15/17 15:55	50

TestAmerica Chicago

Client Sample Results

Client: TRC Environmental Corporation.
Project/Site: STH 11 Kentucky to Kearney - 275788

TestAmerica Job ID: 500-127505-1

Client Sample ID: Trip Blank

Lab Sample ID: 500-127505-26

Date Collected: 05/01/17 00:00

Matrix: Solid

Date Received: 05/03/17 09:00

Percent Solids: 100.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Isopropylbenzene	<19		50	19	ug/Kg	☼	05/01/17 00:00	05/15/17 15:55	50
Methyl tert-butyl ether	<20	*	50	20	ug/Kg	☼	05/01/17 00:00	05/15/17 15:55	50
Methylene Chloride	<82	*	250	82	ug/Kg	☼	05/01/17 00:00	05/15/17 15:55	50
Naphthalene	<17	*	50	17	ug/Kg	☼	05/01/17 00:00	05/15/17 15:55	50
n-Butylbenzene	<19		50	19	ug/Kg	☼	05/01/17 00:00	05/15/17 15:55	50
N-Propylbenzene	<21		50	21	ug/Kg	☼	05/01/17 00:00	05/15/17 15:55	50
p-Isopropyltoluene	<18		50	18	ug/Kg	☼	05/01/17 00:00	05/15/17 15:55	50
sec-Butylbenzene	<20		50	20	ug/Kg	☼	05/01/17 00:00	05/15/17 15:55	50
Styrene	<19	*	50	19	ug/Kg	☼	05/01/17 00:00	05/15/17 15:55	50
tert-Butylbenzene	<20		50	20	ug/Kg	☼	05/01/17 00:00	05/15/17 15:55	50
Tetrachloroethene	<19		50	19	ug/Kg	☼	05/01/17 00:00	05/15/17 15:55	50
Toluene	<7.4		13	7.4	ug/Kg	☼	05/01/17 00:00	05/15/17 15:55	50
trans-1,2-Dichloroethene	<18	*	50	18	ug/Kg	☼	05/01/17 00:00	05/15/17 15:55	50
trans-1,3-Dichloropropene	<18		50	18	ug/Kg	☼	05/01/17 00:00	05/15/17 15:55	50
Trichloroethene	<8.2		25	8.2	ug/Kg	☼	05/01/17 00:00	05/15/17 15:55	50
Trichlorofluoromethane	<21	*	50	21	ug/Kg	☼	05/01/17 00:00	05/15/17 15:55	50
Vinyl chloride	<13	*	25	13	ug/Kg	☼	05/01/17 00:00	05/15/17 15:55	50
Xylenes, Total	<11		25	11	ug/Kg	☼	05/01/17 00:00	05/15/17 15:55	50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	100		75 - 126	05/01/17 00:00	05/15/17 15:55	50
4-Bromofluorobenzene (Surr)	93		72 - 124	05/01/17 00:00	05/15/17 15:55	50
Dibromofluoromethane	101		75 - 120	05/01/17 00:00	05/15/17 15:55	50
Toluene-d8 (Surr)	95		75 - 120	05/01/17 00:00	05/15/17 15:55	50

TestAmerica Laboratories, Inc.
 Attention: Sandie Fredrick
 2417 Bond St
 University Park, IL 44720

Date Received: 05/05/2017
Date Reported: 05/15/17 17:06
Client Project: Soil/Waste
Client Project ID: Soil/Waste
PO# 2669273
Project #: Soil/Waste

Certificate of Analysis

This analytical test report shall not be reproduced, except in full, without written permission from Eurofins S-F Analytical Laboratories. All quality control samples and checks were within acceptance limits unless otherwise indicated. Test results pertain only to those items tested. All samples were in good condition when received by the laboratory unless otherwise noted. All LOD/LOQs are adjusted to reflect dilutions.

DNR #	Analyte	Result Wet Wt.	LOD Wet Wt.	Result Dry Wt.	LOD Dry Wt.	LOQ Dry Wt.	Units	Dilution Factor	Date Prepared	Date Analyzed	Method	Notes	
1705123-01		GP-05 (6-8) (500-127505-11)					Date Collected: 05/01/2017						
		Preparation: SW-846 5050 1994					Prepared By: P84Z		Analyzed By: P84Z				
	Chlorine as Cl	0.005	0.002	0.005	0.002	0.006	% Wt.	1	5/15/17	05/15/17	ASTM D808		
	Solids	Result: 85.98				% Wt.			Analyzed By: YT09	5/8/17	05/09/17	SM2540G 1997	
DNR #	Analyte	Result Wet Wt.	LOD Wet Wt.	Result Dry Wt.	LOD Dry Wt.	LOQ Dry Wt.	Units	Dilution Factor	Date Prepared	Date Analyzed	Method	Notes	
1705123-02		GP-07 (6-8) (500-127505-16)					Date Collected: 05/01/2017						
		Preparation: SW-846 5050 1994					Prepared By: P84Z		Analyzed By: P84Z				
	Chlorine as Cl	0.006	0.002	0.006	0.002	0.007	% Wt.	1	5/15/17	05/15/17	ASTM D808		
	Solids	Result: 86.74				% Wt.			Analyzed By: YT09	5/8/17	05/09/17	SM2540G 1997	
DNR #	Analyte	Result Wet Wt.	LOD Wet Wt.	Result Dry Wt.	LOD Dry Wt.	LOQ Dry Wt.	Units	Dilution Factor	Date Prepared	Date Analyzed	Method	Notes	
1705123-03		GP-11 (6-8) (500-127505-25)					Date Collected: 05/01/2017						
		Preparation: SW-846 5050 1994					Prepared By: P84Z		Analyzed By: P84Z				
	Chlorine as Cl	0.028	0.002	0.032	0.002	0.006	% Wt.	1	5/15/17	05/15/17	ASTM D808		
	Solids	Result: 89.25				% Wt.			Analyzed By: YT09	5/8/17	05/09/17	SM2540G 1997	

This report was prepared and printed by:



Josh Rhein, Chemistry Operations Manager

Page 1 of 1

Definitions/Glossary

Client: TRC Environmental Corporation.
Project/Site: STH 11 Kentucky to Kearney - 275788

TestAmerica Job ID: 500-127505-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*	LCS or LCSD is outside acceptance limits.

GC 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 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.

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.
F3	Duplicate RPD exceeds the control limit

General Chemistry

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	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
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 (Radiochemistry)
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: STH 11 Kentucky to Kearney - 275788

TestAmerica Job ID: 500-127505-1

GC/MS VOA

Prep Batch: 384046

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-127505-6	GP-03 (2-4)	Total/NA	Solid	5035	
500-127505-7	GP-03 (6-8)	Total/NA	Solid	5035	
500-127505-8	GP-04 (2-4)	Total/NA	Solid	5035	
500-127505-9	GP-04 (6-8)	Total/NA	Solid	5035	
500-127505-10	GP-05 (2-4)	Total/NA	Solid	5035	
500-127505-11	GP-05 (6-8)	Total/NA	Solid	5035	
500-127505-12	GP-05 (14-16)	Total/NA	Solid	5035	
500-127505-26	Trip Blank	Total/NA	Solid	5035	

Leach Batch: 384086

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-127505-11	GP-05 (6-8)	TCLP	Solid	1311	
500-127505-16	GP-07 (6-8)	TCLP	Solid	1311	
500-127505-25	GP-11 (6-8)	TCLP	Solid	1311	
LB 500-384086/1-A	Method Blank	TCLP	Solid	1311	

Analysis Batch: 384262

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-127505-11	GP-05 (6-8)	TCLP	Solid	8260B	384086
500-127505-16	GP-07 (6-8)	TCLP	Solid	8260B	384086
500-127505-25	GP-11 (6-8)	TCLP	Solid	8260B	384086
LB 500-384086/1-A	Method Blank	TCLP	Solid	8260B	384086
MB 500-384262/6	Method Blank	Total/NA	Solid	8260B	
LCS 500-384262/4	Lab Control Sample	Total/NA	Solid	8260B	

Analysis Batch: 385134

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-127505-6	GP-03 (2-4)	Total/NA	Solid	8260B	384046
500-127505-7	GP-03 (6-8)	Total/NA	Solid	8260B	384046
500-127505-8	GP-04 (2-4)	Total/NA	Solid	8260B	384046
500-127505-9	GP-04 (6-8)	Total/NA	Solid	8260B	384046
500-127505-10	GP-05 (2-4)	Total/NA	Solid	8260B	384046
500-127505-11	GP-05 (6-8)	Total/NA	Solid	8260B	384046
500-127505-12	GP-05 (14-16)	Total/NA	Solid	8260B	384046
500-127505-26	Trip Blank	Total/NA	Solid	8260B	384046
MB 500-385134/6	Method Blank	Total/NA	Solid	8260B	
LCS 500-385134/4	Lab Control Sample	Total/NA	Solid	8260B	

GC/MS Semi VOA

Leach Batch: 383992

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-127505-11	GP-05 (6-8)	TCLP	Solid	1311	
500-127505-16	GP-07 (6-8)	TCLP	Solid	1311	
500-127505-25	GP-11 (6-8)	TCLP	Solid	1311	
LB 500-383992/1-B	Method Blank	TCLP	Solid	1311	
500-127505-11 MS	GP-05 (6-8)	TCLP	Solid	1311	

TestAmerica Chicago

QC Association Summary

Client: TRC Environmental Corporation.
Project/Site: STH 11 Kentucky to Kearney - 275788

TestAmerica Job ID: 500-127505-1

GC/MS Semi VOA (Continued)

Prep Batch: 384171

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-127505-11	GP-05 (6-8)	TCLP	Solid	3510C	383992
500-127505-16	GP-07 (6-8)	TCLP	Solid	3510C	383992
500-127505-25	GP-11 (6-8)	TCLP	Solid	3510C	383992
LB 500-383992/1-B	Method Blank	TCLP	Solid	3510C	383992
MB 500-384171/1-A	Method Blank	Total/NA	Solid	3510C	
LCS 500-384171/2-A	Lab Control Sample	Total/NA	Solid	3510C	
500-127505-11 MS	GP-05 (6-8)	TCLP	Solid	3510C	383992

Analysis Batch: 384241

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-127505-11	GP-05 (6-8)	TCLP	Solid	8270D	384171
500-127505-16	GP-07 (6-8)	TCLP	Solid	8270D	384171
500-127505-25	GP-11 (6-8)	TCLP	Solid	8270D	384171
LB 500-383992/1-B	Method Blank	TCLP	Solid	8270D	384171
MB 500-384171/1-A	Method Blank	Total/NA	Solid	8270D	384171
LCS 500-384171/2-A	Lab Control Sample	Total/NA	Solid	8270D	384171
500-127505-11 MS	GP-05 (6-8)	TCLP	Solid	8270D	384171

GC VOA

Prep Batch: 384046

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-127505-11	GP-05 (6-8)	Total/NA	Solid	WI GRO	
LB3 500-384046/21-A	Method Blank	Total/NA	Solid	5035	
LCS 500-384046/23-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 500-384046/24-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Analysis Batch: 384093

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-127505-11	GP-05 (6-8)	Total/NA	Solid	WI-GRO	384046
LB3 500-384046/21-A	Method Blank	Total/NA	Solid	WI-GRO	384046
LCS 500-384046/23-A	Lab Control Sample	Total/NA	Solid	WI-GRO	384046
LCSD 500-384046/24-A	Lab Control Sample Dup	Total/NA	Solid	WI-GRO	384046

Prep Batch: 427841

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-127505-1	GP-01 (0-2)	Total/NA	Solid	WI GRO	
500-127505-2	GP-01 (6-8)	Total/NA	Solid	WI GRO	
500-127505-3	GP-02 (2-4)	Total/NA	Solid	WI GRO	
500-127505-4	GP-02 (6-8)	Total/NA	Solid	WI GRO	
500-127505-5	GP-02 (14-16)	Total/NA	Solid	WI GRO	
500-127505-13	GP-06 (2-4)	Total/NA	Solid	WI GRO	
500-127505-14	GP-06 (6-8)	Total/NA	Solid	WI GRO	
500-127505-15	GP-07 (2-4)	Total/NA	Solid	WI GRO	
500-127505-16	GP-07 (6-8)	Total/NA	Solid	WI GRO	
500-127505-17	GP-07 (14-16)	Total/NA	Solid	WI GRO	
500-127505-18	GP-08 (2-4)	Total/NA	Solid	WI GRO	
500-127505-19	GP-08 (6-8)	Total/NA	Solid	WI GRO	
500-127505-20	GP-09 (2-4)	Total/NA	Solid	WI GRO	
500-127505-21	GP-09 (6-8)	Total/NA	Solid	WI GRO	

TestAmerica Chicago

QC Association Summary

Client: TRC Environmental Corporation.
Project/Site: STH 11 Kentucky to Kearney - 275788

TestAmerica Job ID: 500-127505-1

GC VOA (Continued)

Prep Batch: 427841 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-127505-22	GP-10 (2-4)	Total/NA	Solid	WI GRO	
500-127505-23	GP-10 (6-8)	Total/NA	Solid	WI GRO	
500-127505-24	GP-11 (2-4)	Total/NA	Solid	WI GRO	
500-127505-25	GP-11 (6-8)	Total/NA	Solid	WI GRO	
MB 490-427841/40-A	Method Blank	Total/NA	Solid	WI GRO	
LCS 490-427841/41-A	Lab Control Sample	Total/NA	Solid	WI GRO	
LCSD 490-427841/42-A	Lab Control Sample Dup	Total/NA	Solid	WI GRO	

Analysis Batch: 428725

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-127505-1	GP-01 (0-2)	Total/NA	Solid	WDNR	427841
500-127505-2	GP-01 (6-8)	Total/NA	Solid	WDNR	427841
500-127505-3	GP-02 (2-4)	Total/NA	Solid	WDNR	427841
500-127505-4	GP-02 (6-8)	Total/NA	Solid	WDNR	427841
500-127505-5	GP-02 (14-16)	Total/NA	Solid	WDNR	427841
500-127505-13	GP-06 (2-4)	Total/NA	Solid	WDNR	427841
500-127505-14	GP-06 (6-8)	Total/NA	Solid	WDNR	427841
500-127505-15	GP-07 (2-4)	Total/NA	Solid	WDNR	427841
500-127505-16	GP-07 (6-8)	Total/NA	Solid	WDNR	427841
500-127505-17	GP-07 (14-16)	Total/NA	Solid	WDNR	427841
500-127505-18	GP-08 (2-4)	Total/NA	Solid	WDNR	427841
500-127505-19	GP-08 (6-8)	Total/NA	Solid	WDNR	427841
500-127505-20	GP-09 (2-4)	Total/NA	Solid	WDNR	427841
500-127505-21	GP-09 (6-8)	Total/NA	Solid	WDNR	427841
500-127505-22	GP-10 (2-4)	Total/NA	Solid	WDNR	427841
500-127505-23	GP-10 (6-8)	Total/NA	Solid	WDNR	427841
500-127505-24	GP-11 (2-4)	Total/NA	Solid	WDNR	427841
500-127505-25	GP-11 (6-8)	Total/NA	Solid	WDNR	427841
MB 490-427841/40-A	Method Blank	Total/NA	Solid	WDNR	427841
LCS 490-427841/41-A	Lab Control Sample	Total/NA	Solid	WDNR	427841
LCSD 490-427841/42-A	Lab Control Sample Dup	Total/NA	Solid	WDNR	427841

GC Semi VOA

Prep Batch: 383737

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-127505-11	GP-05 (6-8)	Total/NA	Solid	WI DRO PREP	
500-127505-16	GP-07 (6-8)	Total/NA	Solid	WI DRO PREP	
500-127505-25	GP-11 (6-8)	Total/NA	Solid	WI DRO PREP	
MB 500-383737/1-A	Method Blank	Total/NA	Solid	WI DRO PREP	
LCS 500-383737/2-A	Lab Control Sample	Total/NA	Solid	WI DRO PREP	
LCSD 500-383737/3-A	Lab Control Sample Dup	Total/NA	Solid	WI DRO PREP	

Analysis Batch: 383957

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-127505-11	GP-05 (6-8)	Total/NA	Solid	WI-DRO	383737
500-127505-16	GP-07 (6-8)	Total/NA	Solid	WI-DRO	383737
500-127505-25	GP-11 (6-8)	Total/NA	Solid	WI-DRO	383737
MB 500-383737/1-A	Method Blank	Total/NA	Solid	WI-DRO	383737
LCS 500-383737/2-A	Lab Control Sample	Total/NA	Solid	WI-DRO	383737

TestAmerica Chicago

QC Association Summary

Client: TRC Environmental Corporation.
Project/Site: STH 11 Kentucky to Kearney - 275788

TestAmerica Job ID: 500-127505-1

GC Semi VOA (Continued)

Analysis Batch: 383957 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 500-383737/3-A	Lab Control Sample Dup	Total/NA	Solid	WI-DRO	383737

Prep Batch: 384456

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-127505-11	GP-05 (6-8)	Total/NA	Solid	3541	
500-127505-16	GP-07 (6-8)	Total/NA	Solid	3541	
500-127505-25	GP-11 (6-8)	Total/NA	Solid	3541	
MB 500-384456/1-A	Method Blank	Total/NA	Solid	3541	
LCS 500-384456/2-A	Lab Control Sample	Total/NA	Solid	3541	

Analysis Batch: 384545

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-127505-11	GP-05 (6-8)	Total/NA	Solid	8082A	384456
500-127505-16	GP-07 (6-8)	Total/NA	Solid	8082A	384456
500-127505-25	GP-11 (6-8)	Total/NA	Solid	8082A	384456
MB 500-384456/1-A	Method Blank	Total/NA	Solid	8082A	384456
LCS 500-384456/2-A	Lab Control Sample	Total/NA	Solid	8082A	384456

Metals

Leach Batch: 383992

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-127505-11	GP-05 (6-8)	TCLP	Solid	1311	
500-127505-16	GP-07 (6-8)	TCLP	Solid	1311	
500-127505-25	GP-11 (6-8)	TCLP	Solid	1311	
LB 500-383992/1-C	Method Blank	TCLP	Solid	1311	
LB 500-383992/1-D	Method Blank	TCLP	Solid	1311	

Prep Batch: 383993

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-127505-6	GP-03 (2-4)	Total/NA	Solid	3050B	
500-127505-7	GP-03 (6-8)	Total/NA	Solid	3050B	
500-127505-8	GP-04 (2-4)	Total/NA	Solid	3050B	
500-127505-9	GP-04 (6-8)	Total/NA	Solid	3050B	
500-127505-10	GP-05 (2-4)	Total/NA	Solid	3050B	
500-127505-11	GP-05 (6-8)	Total/NA	Solid	3050B	
500-127505-12	GP-05 (14-16)	Total/NA	Solid	3050B	
500-127505-18	GP-08 (2-4)	Total/NA	Solid	3050B	
500-127505-19	GP-08 (6-8)	Total/NA	Solid	3050B	
500-127505-20	GP-09 (2-4)	Total/NA	Solid	3050B	
500-127505-21	GP-09 (6-8)	Total/NA	Solid	3050B	
500-127505-22	GP-10 (2-4)	Total/NA	Solid	3050B	
500-127505-23	GP-10 (6-8)	Total/NA	Solid	3050B	
500-127505-24	GP-11 (2-4)	Total/NA	Solid	3050B	
500-127505-25	GP-11 (6-8)	Total/NA	Solid	3050B	
MB 500-383993/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 500-383993/2-A	Lab Control Sample	Total/NA	Solid	3050B	
500-127505-25 MS	GP-11 (6-8)	Total/NA	Solid	3050B	
500-127505-25 MSD	GP-11 (6-8)	Total/NA	Solid	3050B	
500-127505-25 DU	GP-11 (6-8)	Total/NA	Solid	3050B	

TestAmerica Chicago

QC Association Summary

Client: TRC Environmental Corporation.
Project/Site: STH 11 Kentucky to Kearney - 275788

TestAmerica Job ID: 500-127505-1

Metals (Continued)

Prep Batch: 384187

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-127505-11	GP-05 (6-8)	TCLP	Solid	3010A	383992
500-127505-16	GP-07 (6-8)	TCLP	Solid	3010A	383992
500-127505-25	GP-11 (6-8)	TCLP	Solid	3010A	383992
LB 500-383992/1-C	Method Blank	TCLP	Solid	3010A	383992
LCS 500-384187/2-A	Lab Control Sample	Total/NA	Solid	3010A	

Prep Batch: 384260

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-127505-11	GP-05 (6-8)	TCLP	Solid	7470A	383992
500-127505-16	GP-07 (6-8)	TCLP	Solid	7470A	383992
500-127505-25	GP-11 (6-8)	TCLP	Solid	7470A	383992
LB 500-383992/1-D	Method Blank	TCLP	Solid	7470A	383992
MB 500-384260/12-A	Method Blank	Total/NA	Solid	7470A	
LCS 500-384260/13-A	Lab Control Sample	Total/NA	Solid	7470A	

Analysis Batch: 384328

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-127505-11	GP-05 (6-8)	TCLP	Solid	6010B	384187
500-127505-16	GP-07 (6-8)	TCLP	Solid	6010B	384187
500-127505-25	GP-11 (6-8)	TCLP	Solid	6010B	384187
LB 500-383992/1-C	Method Blank	TCLP	Solid	6010B	384187
LCS 500-384187/2-A	Lab Control Sample	Total/NA	Solid	6010B	384187

Analysis Batch: 384394

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-127505-11	GP-05 (6-8)	TCLP	Solid	7470A	384260
500-127505-16	GP-07 (6-8)	TCLP	Solid	7470A	384260
500-127505-25	GP-11 (6-8)	TCLP	Solid	7470A	384260
LB 500-383992/1-D	Method Blank	TCLP	Solid	7470A	384260
MB 500-384260/12-A	Method Blank	Total/NA	Solid	7470A	384260
LCS 500-384260/13-A	Lab Control Sample	Total/NA	Solid	7470A	384260

Analysis Batch: 384865

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-127505-6	GP-03 (2-4)	Total/NA	Solid	6010B	383993
500-127505-7	GP-03 (6-8)	Total/NA	Solid	6010B	383993
500-127505-8	GP-04 (2-4)	Total/NA	Solid	6010B	383993
500-127505-9	GP-04 (6-8)	Total/NA	Solid	6010B	383993
500-127505-10	GP-05 (2-4)	Total/NA	Solid	6010B	383993
500-127505-11	GP-05 (6-8)	Total/NA	Solid	6010B	383993
500-127505-12	GP-05 (14-16)	Total/NA	Solid	6010B	383993
500-127505-18	GP-08 (2-4)	Total/NA	Solid	6010B	383993
500-127505-19	GP-08 (6-8)	Total/NA	Solid	6010B	383993
500-127505-20	GP-09 (2-4)	Total/NA	Solid	6010B	383993
500-127505-21	GP-09 (6-8)	Total/NA	Solid	6010B	383993
500-127505-22	GP-10 (2-4)	Total/NA	Solid	6010B	383993
500-127505-23	GP-10 (6-8)	Total/NA	Solid	6010B	383993
500-127505-24	GP-11 (2-4)	Total/NA	Solid	6010B	383993
500-127505-25	GP-11 (6-8)	Total/NA	Solid	6010B	383993
MB 500-383993/1-A	Method Blank	Total/NA	Solid	6010B	383993
LCS 500-383993/2-A	Lab Control Sample	Total/NA	Solid	6010B	383993

TestAmerica Chicago

QC Association Summary

Client: TRC Environmental Corporation.
Project/Site: STH 11 Kentucky to Kearney - 275788

TestAmerica Job ID: 500-127505-1

Metals (Continued)

Analysis Batch: 384865 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-127505-25 MS	GP-11 (6-8)	Total/NA	Solid	6010B	383993
500-127505-25 MSD	GP-11 (6-8)	Total/NA	Solid	6010B	383993
500-127505-25 DU	GP-11 (6-8)	Total/NA	Solid	6010B	383993

General Chemistry

Analysis Batch: 383751

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-127505-6	GP-03 (2-4)	Total/NA	Solid	Moisture	
500-127505-7	GP-03 (6-8)	Total/NA	Solid	Moisture	
500-127505-8	GP-04 (2-4)	Total/NA	Solid	Moisture	
500-127505-9	GP-04 (6-8)	Total/NA	Solid	Moisture	
500-127505-10	GP-05 (2-4)	Total/NA	Solid	Moisture	
500-127505-11	GP-05 (6-8)	Total/NA	Solid	Moisture	
500-127505-12	GP-05 (14-16)	Total/NA	Solid	Moisture	
500-127505-16	GP-07 (6-8)	Total/NA	Solid	Moisture	
500-127505-25	GP-11 (6-8)	Total/NA	Solid	Moisture	
500-127505-26	Trip Blank	Total/NA	Solid	Moisture	
500-127505-8 DU	GP-04 (2-4)	Total/NA	Solid	Moisture	

Analysis Batch: 384553

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-127505-11	GP-05 (6-8)	Total/NA	Solid	9045C	
500-127505-16	GP-07 (6-8)	Total/NA	Solid	9045C	
500-127505-25	GP-11 (6-8)	Total/NA	Solid	9045C	

Prep Batch: 384580

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-127505-11	GP-05 (6-8)	Total/NA	Solid	9010B	
500-127505-16	GP-07 (6-8)	Total/NA	Solid	9010B	
500-127505-25	GP-11 (6-8)	Total/NA	Solid	9010B	
MB 500-384580/1-A	Method Blank	Total/NA	Solid	9010B	
LCS 500-384580/2-A	Lab Control Sample	Total/NA	Solid	9010B	

Analysis Batch: 384641

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-127505-11	GP-05 (6-8)	Total/NA	Solid	9014	384580
500-127505-16	GP-07 (6-8)	Total/NA	Solid	9014	384580
500-127505-25	GP-11 (6-8)	Total/NA	Solid	9014	384580
MB 500-384580/1-A	Method Blank	Total/NA	Solid	9014	384580
LCS 500-384580/2-A	Lab Control Sample	Total/NA	Solid	9014	384580

Analysis Batch: 384855

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-127505-11	GP-05 (6-8)	Total/NA	Solid	9095A	
500-127505-16	GP-07 (6-8)	Total/NA	Solid	9095A	
500-127505-25	GP-11 (6-8)	Total/NA	Solid	9095A	

TestAmerica Chicago

QC Association Summary

Client: TRC Environmental Corporation.
Project/Site: STH 11 Kentucky to Kearney - 275788

TestAmerica Job ID: 500-127505-1

General Chemistry (Continued)

Analysis Batch: 384856

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-127505-11	GP-05 (6-8)	Total/NA	Solid	1010	
500-127505-16	GP-07 (6-8)	Total/NA	Solid	1010	
500-127505-25	GP-11 (6-8)	Total/NA	Solid	1010	

Analysis Batch: 385047

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-127505-11	GP-05 (6-8)	Total/NA	Solid	SM 2710F	
500-127505-16	GP-07 (6-8)	Total/NA	Solid	SM 2710F	
500-127505-25	GP-11 (6-8)	Total/NA	Solid	SM 2710F	

Prep Batch: 385245

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-127505-11	GP-05 (6-8)	Total/NA	Solid	9030B	
500-127505-16	GP-07 (6-8)	Total/NA	Solid	9030B	
500-127505-25	GP-11 (6-8)	Total/NA	Solid	9030B	
MB 500-385245/1-A	Method Blank	Total/NA	Solid	9030B	
LCS 500-385245/2-A	Lab Control Sample	Total/NA	Solid	9030B	

Analysis Batch: 385402

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-127505-11	GP-05 (6-8)	Total/NA	Solid	9034	385245
500-127505-16	GP-07 (6-8)	Total/NA	Solid	9034	385245
500-127505-25	GP-11 (6-8)	Total/NA	Solid	9034	385245
MB 500-385245/1-A	Method Blank	Total/NA	Solid	9034	385245
LCS 500-385245/2-A	Lab Control Sample	Total/NA	Solid	9034	385245

Analysis Batch: 427523

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-127505-1	GP-01 (0-2)	Total/NA	Solid	Moisture	
500-127505-2	GP-01 (6-8)	Total/NA	Solid	Moisture	
500-127505-3	GP-02 (2-4)	Total/NA	Solid	Moisture	
500-127505-4	GP-02 (6-8)	Total/NA	Solid	Moisture	
500-127505-5	GP-02 (14-16)	Total/NA	Solid	Moisture	
500-127505-13	GP-06 (2-4)	Total/NA	Solid	Moisture	
500-127505-14	GP-06 (6-8)	Total/NA	Solid	Moisture	
500-127505-15	GP-07 (2-4)	Total/NA	Solid	Moisture	
500-127505-17	GP-07 (14-16)	Total/NA	Solid	Moisture	
500-127505-18	GP-08 (2-4)	Total/NA	Solid	Moisture	
500-127505-19	GP-08 (6-8)	Total/NA	Solid	Moisture	
500-127505-20	GP-09 (2-4)	Total/NA	Solid	Moisture	
500-127505-21	GP-09 (6-8)	Total/NA	Solid	Moisture	
500-127505-22	GP-10 (2-4)	Total/NA	Solid	Moisture	
500-127505-4 DU	GP-02 (6-8)	Total/NA	Solid	Moisture	

Analysis Batch: 427540

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-127505-23	GP-10 (6-8)	Total/NA	Solid	Moisture	
500-127505-24	GP-11 (2-4)	Total/NA	Solid	Moisture	
500-127505-23 DU	GP-10 (6-8)	Total/NA	Solid	Moisture	
500-127505-24 DU	GP-11 (2-4)	Total/NA	Solid	Moisture	

TestAmerica Chicago

Surrogate Summary

Client: TRC Environmental Corporation.
Project/Site: STH 11 Kentucky to Kearney - 275788

TestAmerica Job ID: 500-127505-1

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

Matrix: Solid

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		12DCE (75-126)	BFB (72-124)	DBFM (75-120)	TOL (75-120)
500-127505-6	GP-03 (2-4)	97	89	101	94
500-127505-7	GP-03 (6-8)	97	91	100	94
500-127505-8	GP-04 (2-4)	98	92	99	94
500-127505-9	GP-04 (6-8)	100	93	102	94
500-127505-10	GP-05 (2-4)	98	90	100	94
500-127505-11	GP-05 (6-8)	97	92	99	95
500-127505-12	GP-05 (14-16)	98	92	101	93
500-127505-26	Trip Blank	100	93	101	95
LCS 500-384262/4	Lab Control Sample	103	109	93	102
LCS 500-385134/4	Lab Control Sample	87	90	94	96
MB 500-384262/6	Method Blank	105	114	89	100
MB 500-385134/6	Method Blank	91	94	97	96

Surrogate Legend

12DCE = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane
TOL = Toluene-d8 (Surr)

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

Matrix: Solid

Prep Type: TCLP

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		12DCE (75-126)	BFB (72-124)	DBFM (75-120)	TOL (75-120)
500-127505-11	GP-05 (6-8)	103	110	89	101
500-127505-16	GP-07 (6-8)	104	108	90	101
500-127505-25	GP-11 (6-8)	105	114	91	100
LB 500-384086/1-A	Method Blank	104	110	89	97

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

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)					
		TBP (40-145)	FBP (34-110)	2FP (27-110)	NBZ (36-120)	PHL (20-100)	TPH (40-145)
LCS 500-384171/2-A	Lab Control Sample	98	87	61	92	44	103
MB 500-384171/1-A	Method Blank	90	90	65	97	43	107

Surrogate Legend

TBP = 2,4,6-Tribromophenol (Surr)
FBP = 2-Fluorobiphenyl
2FP = 2-Fluorophenol (Surr)
NBZ = Nitrobenzene-d5 (Surr)

TestAmerica Chicago

Surrogate Summary

Client: TRC Environmental Corporation.
Project/Site: STH 11 Kentucky to Kearney - 275788

TestAmerica Job ID: 500-127505-1

PHL = Phenol-d5 (Surr)
TPH = Terphenyl-d14 (Surr)

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

Matrix: Solid

Prep Type: TCLP

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)					
		TBP (40-145)	FBP (34-110)	2FP (27-110)	NBZ (36-120)	PHL (20-100)	TPH (40-145)
500-127505-11	GP-05 (6-8)	90	86	59	95	42	104
500-127505-11 MS	GP-05 (6-8)	96	83	58	90	40	104
500-127505-16	GP-07 (6-8)	87	87	60	96	41	103
500-127505-25	GP-11 (6-8)	86	86	57	93	40	100
LB 500-383992/1-B	Method Blank	90	84	56	94	39	104

Surrogate Legend

TBP = 2,4,6-Tribromophenol (Surr)
FBP = 2-Fluorobiphenyl
2FP = 2-Fluorophenol (Surr)
NBZ = Nitrobenzene-d5 (Surr)
PHL = Phenol-d5 (Surr)
TPH = Terphenyl-d14 (Surr)

Method: WDNR - Wisconsin - Gasoline Range Organics (GC)

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)	
		TFT (80-120)	TFT (80-120)
500-127505-1	GP-01 (0-2)	87	87
500-127505-2	GP-01 (6-8)	88	88
500-127505-3	GP-02 (2-4)	91	91
500-127505-4	GP-02 (6-8)	89	89
500-127505-5	GP-02 (14-16)	92	92
500-127505-13	GP-06 (2-4)	86	86
500-127505-14	GP-06 (6-8)	91	91
500-127505-15	GP-07 (2-4)	88	88
500-127505-16	GP-07 (6-8)	91	91
500-127505-17	GP-07 (14-16)	90	90
500-127505-18	GP-08 (2-4)	91	91
500-127505-19	GP-08 (6-8)	91	91
500-127505-20	GP-09 (2-4)	90	90
500-127505-21	GP-09 (6-8)	90	90
500-127505-22	GP-10 (2-4)	91	91
500-127505-23	GP-10 (6-8)	91	91
500-127505-24	GP-11 (2-4)	95	95
500-127505-25	GP-11 (6-8)	91	91
LCS 490-427841/41-A	Lab Control Sample	96	96
LCSD 490-427841/42-A	Lab Control Sample Dup	97	97
MB 490-427841/40-A	Method Blank	88	88

Surrogate Legend

TFT = a,a,a-Trifluorotoluene

TestAmerica Chicago

Surrogate Summary

Client: TRC Environmental Corporation.
Project/Site: STH 11 Kentucky to Kearney - 275788

TestAmerica Job ID: 500-127505-1

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

Matrix: Solid

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	TCX1 (49-129)	DCB1 (37-121)
500-127505-11	GP-05 (6-8)	61	62
500-127505-16	GP-07 (6-8)	68	67
500-127505-25	GP-11 (6-8)	64	78
LCS 500-384456/2-A	Lab Control Sample	76	63
MB 500-384456/1-A	Method Blank	76	70

Surrogate Legend

TCX = Tetrachloro-m-xylene

DCB = DCB Decachlorobiphenyl

Method: WI-DRO - Wisconsin - Diesel Range Organics (GC)

Matrix: Solid

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	C9 (44-148)
500-127505-11	GP-05 (6-8)	69
500-127505-16	GP-07 (6-8)	77
500-127505-25	GP-11 (6-8)	71
LCS 500-383737/2-A	Lab Control Sample	77
LCSD 500-383737/3-A	Lab Control Sample Dup	71
MB 500-383737/1-A	Method Blank	83

Surrogate Legend

C9 = n-Nonane

QC Sample Results

Client: TRC Environmental Corporation.
 Project/Site: STH 11 Kentucky to Kearney - 275788

TestAmerica Job ID: 500-127505-1

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

Lab Sample ID: MB 500-384262/6

Matrix: Solid

Analysis Batch: 384262

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	<0.00050		0.0010	0.00050	mg/L			05/08/17 22:32	1
Methyl Ethyl Ketone	<0.0025		0.0050	0.0025	mg/L			05/08/17 22:32	1
1,2-Dichloroethane	<0.00050		0.0010	0.00050	mg/L			05/08/17 22:32	1
Benzene	<0.00050		0.0010	0.00050	mg/L			05/08/17 22:32	1
Carbon tetrachloride	<0.00050		0.0010	0.00050	mg/L			05/08/17 22:32	1
Chlorobenzene	<0.00050		0.0010	0.00050	mg/L			05/08/17 22:32	1
Chloroform	<0.0010		0.0020	0.0010	mg/L			05/08/17 22:32	1
Tetrachloroethene	<0.00050		0.0010	0.00050	mg/L			05/08/17 22:32	1
Trichloroethene	<0.00050		0.0010	0.00050	mg/L			05/08/17 22:32	1
Vinyl chloride	<0.00050		0.0010	0.00050	mg/L			05/08/17 22:32	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	105		75 - 126		05/08/17 22:32	1
4-Bromofluorobenzene (Surr)	114		72 - 124		05/08/17 22:32	1
Dibromofluoromethane	89		75 - 120		05/08/17 22:32	1
Toluene-d8 (Surr)	100		75 - 120		05/08/17 22:32	1

Lab Sample ID: LCS 500-384262/4

Matrix: Solid

Analysis Batch: 384262

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1-Dichloroethene	0.0500	0.0449		mg/L		90	67 - 122
Methyl Ethyl Ketone	0.0500	0.0524		mg/L		105	53 - 141
1,2-Dichloroethane	0.0500	0.0504		mg/L		101	68 - 127
Benzene	0.0500	0.0479		mg/L		96	70 - 120
Carbon tetrachloride	0.0500	0.0453		mg/L		91	65 - 122
Chlorobenzene	0.0500	0.0500		mg/L		100	70 - 120
Chloroform	0.0500	0.0455		mg/L		91	70 - 120
Tetrachloroethene	0.0500	0.0518		mg/L		104	70 - 128
Trichloroethene	0.0500	0.0488		mg/L		98	70 - 125
Vinyl chloride	0.0500	0.0415		mg/L		83	64 - 126

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	103		75 - 126
4-Bromofluorobenzene (Surr)	109		72 - 124
Dibromofluoromethane	93		75 - 120
Toluene-d8 (Surr)	102		75 - 120

Lab Sample ID: MB 500-385134/6

Matrix: Solid

Analysis Batch: 385134

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	<0.46		1.0	0.46	ug/Kg			05/15/17 11:01	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/Kg			05/15/17 11:01	1
1,1,1,2-Tetrachloroethane	<0.40		1.0	0.40	ug/Kg			05/15/17 11:01	1

TestAmerica Chicago

QC Sample Results

Client: TRC Environmental Corporation.
 Project/Site: STH 11 Kentucky to Kearney - 275788

TestAmerica Job ID: 500-127505-1

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

Lab Sample ID: MB 500-385134/6
Matrix: Solid
Analysis Batch: 385134

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/Kg			05/15/17 11:01	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/Kg			05/15/17 11:01	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/Kg			05/15/17 11:01	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/Kg			05/15/17 11:01	1
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/Kg			05/15/17 11:01	1
1,2,3-Trichloropropane	<0.41		1.0	0.41	ug/Kg			05/15/17 11:01	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/Kg			05/15/17 11:01	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/Kg			05/15/17 11:01	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/Kg			05/15/17 11:01	1
1,2-Dibromoethane	<0.39		1.0	0.39	ug/Kg			05/15/17 11:01	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/Kg			05/15/17 11:01	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/Kg			05/15/17 11:01	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/Kg			05/15/17 11:01	1
1,3,5-Trimethylbenzene	<0.38		1.0	0.38	ug/Kg			05/15/17 11:01	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/Kg			05/15/17 11:01	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/Kg			05/15/17 11:01	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/Kg			05/15/17 11:01	1
2,2-Dichloropropane	<0.44		1.0	0.44	ug/Kg			05/15/17 11:01	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/Kg			05/15/17 11:01	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/Kg			05/15/17 11:01	1
Benzene	<0.15		0.25	0.15	ug/Kg			05/15/17 11:01	1
Bromobenzene	<0.36		1.0	0.36	ug/Kg			05/15/17 11:01	1
Bromochloromethane	<0.43		1.0	0.43	ug/Kg			05/15/17 11:01	1
Bromodichloromethane	<0.37		1.0	0.37	ug/Kg			05/15/17 11:01	1
Bromoform	<0.48		1.0	0.48	ug/Kg			05/15/17 11:01	1
Bromomethane	<0.80		2.0	0.80	ug/Kg			05/15/17 11:01	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/Kg			05/15/17 11:01	1
Chlorobenzene	<0.39		1.0	0.39	ug/Kg			05/15/17 11:01	1
Chloroethane	<0.50		1.0	0.50	ug/Kg			05/15/17 11:01	1
Chloroform	<0.37		2.0	0.37	ug/Kg			05/15/17 11:01	1
Chloromethane	<0.32		1.0	0.32	ug/Kg			05/15/17 11:01	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/Kg			05/15/17 11:01	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/Kg			05/15/17 11:01	1
Dibromochloromethane	<0.49		1.0	0.49	ug/Kg			05/15/17 11:01	1
Dibromomethane	<0.27		1.0	0.27	ug/Kg			05/15/17 11:01	1
Dichlorodifluoromethane	<0.67		2.0	0.67	ug/Kg			05/15/17 11:01	1
Ethylbenzene	<0.18		0.25	0.18	ug/Kg			05/15/17 11:01	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/Kg			05/15/17 11:01	1
Isopropyl ether	<0.28		1.0	0.28	ug/Kg			05/15/17 11:01	1
Isopropylbenzene	<0.38		1.0	0.38	ug/Kg			05/15/17 11:01	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/Kg			05/15/17 11:01	1
Methylene Chloride	<1.6		5.0	1.6	ug/Kg			05/15/17 11:01	1
Naphthalene	<0.33		1.0	0.33	ug/Kg			05/15/17 11:01	1
n-Butylbenzene	<0.39		1.0	0.39	ug/Kg			05/15/17 11:01	1
N-Propylbenzene	<0.41		1.0	0.41	ug/Kg			05/15/17 11:01	1
p-Isopropyltoluene	<0.36		1.0	0.36	ug/Kg			05/15/17 11:01	1
sec-Butylbenzene	<0.40		1.0	0.40	ug/Kg			05/15/17 11:01	1
Styrene	<0.39		1.0	0.39	ug/Kg			05/15/17 11:01	1

TestAmerica Chicago

QC Sample Results

Client: TRC Environmental Corporation.
Project/Site: STH 11 Kentucky to Kearney - 275788

TestAmerica Job ID: 500-127505-1

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

Lab Sample ID: MB 500-385134/6
Matrix: Solid
Analysis Batch: 385134

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
tert-Butylbenzene	<0.40		1.0	0.40	ug/Kg			05/15/17 11:01	1
Tetrachloroethene	<0.37		1.0	0.37	ug/Kg			05/15/17 11:01	1
Toluene	<0.15		0.25	0.15	ug/Kg			05/15/17 11:01	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/Kg			05/15/17 11:01	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/Kg			05/15/17 11:01	1
Trichloroethene	<0.16		0.50	0.16	ug/Kg			05/15/17 11:01	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/Kg			05/15/17 11:01	1
Vinyl chloride	<0.26		0.50	0.26	ug/Kg			05/15/17 11:01	1
Xylenes, Total	<0.22		0.50	0.22	ug/Kg			05/15/17 11:01	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	91		75 - 126		05/15/17 11:01	1
4-Bromofluorobenzene (Surr)	94		72 - 124		05/15/17 11:01	1
Dibromofluoromethane	97		75 - 120		05/15/17 11:01	1
Toluene-d8 (Surr)	96		75 - 120		05/15/17 11:01	1

Lab Sample ID: LCS 500-385134/4
Matrix: Solid
Analysis Batch: 385134

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	50.0		ug/Kg		100	70 - 125
1,1,1-Trichloroethane	50.0	41.0		ug/Kg		82	70 - 125
1,1,1,2,2-Tetrachloroethane	50.0	46.1		ug/Kg		92	67 - 127
1,1,2-Trichloroethane	50.0	48.9		ug/Kg		98	70 - 122
1,1-Dichloroethane	50.0	42.3		ug/Kg		85	70 - 125
1,1-Dichloroethene	50.0	39.3		ug/Kg		79	67 - 122
1,1-Dichloropropene	50.0	42.4		ug/Kg		85	70 - 121
1,2,3-Trichlorobenzene	50.0	41.2		ug/Kg		82	55 - 140
1,2,3-Trichloropropane	50.0	39.9		ug/Kg		80	50 - 133
1,2,4-Trichlorobenzene	50.0	41.1		ug/Kg		82	66 - 127
1,2,4-Trimethylbenzene	50.0	48.3		ug/Kg		97	70 - 123
1,2-Dibromo-3-Chloropropane	50.0	37.3		ug/Kg		75	56 - 123
1,2-Dibromoethane	50.0	47.1		ug/Kg		94	70 - 125
1,2-Dichlorobenzene	50.0	49.2		ug/Kg		98	70 - 125
1,2-Dichloroethane	50.0	42.6		ug/Kg		85	68 - 127
1,2-Dichloropropane	50.0	47.4		ug/Kg		95	67 - 130
1,3,5-Trimethylbenzene	50.0	47.7		ug/Kg		95	70 - 123
1,3-Dichlorobenzene	50.0	49.1		ug/Kg		98	70 - 125
1,3-Dichloropropane	50.0	46.7		ug/Kg		93	62 - 136
1,4-Dichlorobenzene	50.0	49.2		ug/Kg		98	70 - 120
2,2-Dichloropropane	50.0	33.2		ug/Kg		66	58 - 129
2-Chlorotoluene	50.0	46.0		ug/Kg		92	70 - 125
4-Chlorotoluene	50.0	45.5		ug/Kg		91	68 - 124
Benzene	50.0	42.5		ug/Kg		85	70 - 120
Bromobenzene	50.0	48.3		ug/Kg		97	70 - 122
Bromochloromethane	50.0	48.0		ug/Kg		96	65 - 122
Bromodichloromethane	50.0	42.2		ug/Kg		84	69 - 120

TestAmerica Chicago

QC Sample Results

Client: TRC Environmental Corporation.
Project/Site: STH 11 Kentucky to Kearney - 275788

TestAmerica Job ID: 500-127505-1

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

Lab Sample ID: LCS 500-385134/4
Matrix: Solid
Analysis Batch: 385134

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	51.4		ug/Kg		103	56 - 132
Bromomethane	50.0	55.6		ug/Kg		111	40 - 130
Carbon tetrachloride	50.0	41.9		ug/Kg		84	65 - 122
Chlorobenzene	50.0	49.0		ug/Kg		98	70 - 120
Chloroethane	50.0	42.1		ug/Kg		84	45 - 127
Chloroform	50.0	42.5		ug/Kg		85	70 - 120
Chloromethane	50.0	46.0		ug/Kg		92	54 - 147
cis-1,2-Dichloroethene	50.0	44.5		ug/Kg		89	70 - 125
cis-1,3-Dichloropropene	50.0	41.4		ug/Kg		83	64 - 127
Dibromochloromethane	50.0	49.8		ug/Kg		100	68 - 125
Dibromomethane	50.0	44.5		ug/Kg		89	70 - 120
Dichlorodifluoromethane	50.0	35.6		ug/Kg		71	40 - 150
Ethylbenzene	50.0	48.1		ug/Kg		96	70 - 120
Hexachlorobutadiene	50.0	49.1		ug/Kg		98	51 - 150
Isopropylbenzene	50.0	47.3		ug/Kg		95	70 - 126
Methyl tert-butyl ether	50.0	34.9		ug/Kg		70	70 - 120
Methylene Chloride	50.0	40.1		ug/Kg		80	69 - 125
Naphthalene	50.0	37.0		ug/Kg		74	59 - 130
n-Butylbenzene	50.0	45.8		ug/Kg		92	68 - 125
N-Propylbenzene	50.0	46.4		ug/Kg		93	69 - 127
p-Isopropyltoluene	50.0	47.4		ug/Kg		95	70 - 125
sec-Butylbenzene	50.0	48.1		ug/Kg		96	70 - 123
Styrene	50.0	48.9		ug/Kg		98	70 - 120
tert-Butylbenzene	50.0	47.8		ug/Kg		96	70 - 121
Tetrachloroethene	50.0	48.8		ug/Kg		98	70 - 128
Toluene	50.0	45.1		ug/Kg		90	70 - 125
trans-1,2-Dichloroethene	50.0	43.0		ug/Kg		86	70 - 125
trans-1,3-Dichloropropene	50.0	40.6		ug/Kg		81	62 - 128
Trichloroethene	50.0	48.5		ug/Kg		97	70 - 125
Trichlorofluoromethane	50.0	41.5		ug/Kg		83	70 - 126
Vinyl chloride	50.0	47.6		ug/Kg		95	64 - 126
Xylenes, Total	100	91.7		ug/Kg		92	70 - 125

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	87		75 - 126
4-Bromofluorobenzene (Surr)	90		72 - 124
Dibromofluoromethane	94		75 - 120
Toluene-d8 (Surr)	96		75 - 120

Lab Sample ID: LB 500-384086/1-A
Matrix: Solid
Analysis Batch: 384262

Client Sample ID: Method Blank
Prep Type: TCLP

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	<0.010		0.020	0.010	mg/L			05/08/17 23:25	20
Methyl Ethyl Ketone	<0.050		0.10	0.050	mg/L			05/08/17 23:25	20
1,2-Dichloroethane	<0.010		0.020	0.010	mg/L			05/08/17 23:25	20
Benzene	<0.010		0.020	0.010	mg/L			05/08/17 23:25	20

TestAmerica Chicago

QC Sample Results

Client: TRC Environmental Corporation.
Project/Site: STH 11 Kentucky to Kearney - 275788

TestAmerica Job ID: 500-127505-1

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

Lab Sample ID: LB 500-384086/1-A
Matrix: Solid
Analysis Batch: 384262

Client Sample ID: Method Blank
Prep Type: TCLP

Analyte	LB	LB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Carbon tetrachloride	<0.010		0.020	0.010	mg/L			05/08/17 23:25	20
Chlorobenzene	<0.010		0.020	0.010	mg/L			05/08/17 23:25	20
Chloroform	<0.020		0.040	0.020	mg/L			05/08/17 23:25	20
Tetrachloroethene	<0.010		0.020	0.010	mg/L			05/08/17 23:25	20
Trichloroethene	<0.010		0.020	0.010	mg/L			05/08/17 23:25	20
Vinyl chloride	<0.010		0.020	0.010	mg/L			05/08/17 23:25	20
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	104		75 - 126					05/08/17 23:25	20
4-Bromofluorobenzene (Surr)	110		72 - 124					05/08/17 23:25	20
Dibromofluoromethane	89		75 - 120					05/08/17 23:25	20
Toluene-d8 (Surr)	97		75 - 120					05/08/17 23:25	20

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

Lab Sample ID: MB 500-384171/1-A
Matrix: Solid
Analysis Batch: 384241

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 384171

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
1,4-Dichlorobenzene	<0.0020		0.0020	0.0020	mg/L		05/08/17 07:42	05/08/17 15:01	1
2,4,5-Trichlorophenol	<0.010		0.010	0.010	mg/L		05/08/17 07:42	05/08/17 15:01	1
2,4,6-Trichlorophenol	<0.0050		0.0050	0.0050	mg/L		05/08/17 07:42	05/08/17 15:01	1
2,4-Dinitrotoluene	<0.0010		0.0010	0.0010	mg/L		05/08/17 07:42	05/08/17 15:01	1
2-Methylphenol	<0.0020		0.0020	0.0020	mg/L		05/08/17 07:42	05/08/17 15:01	1
3 & 4 Methylphenol	<0.0020		0.0020	0.0020	mg/L		05/08/17 07:42	05/08/17 15:01	1
Hexachlorobenzene	<0.00050		0.00050	0.00050	mg/L		05/08/17 07:42	05/08/17 15:01	1
Hexachlorobutadiene	<0.0050		0.0050	0.0050	mg/L		05/08/17 07:42	05/08/17 15:01	1
Hexachloroethane	<0.0050		0.0050	0.0050	mg/L		05/08/17 07:42	05/08/17 15:01	1
Nitrobenzene	<0.0010		0.0010	0.0010	mg/L		05/08/17 07:42	05/08/17 15:01	1
Pentachlorophenol	<0.020		0.020	0.020	mg/L		05/08/17 07:42	05/08/17 15:01	1
Pyridine	<0.020		0.020	0.020	mg/L		05/08/17 07:42	05/08/17 15:01	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	90		40 - 145				05/08/17 07:42	05/08/17 15:01	1
2-Fluorobiphenyl	90		34 - 110				05/08/17 07:42	05/08/17 15:01	1
2-Fluorophenol (Surr)	65		27 - 110				05/08/17 07:42	05/08/17 15:01	1
Nitrobenzene-d5 (Surr)	97		36 - 120				05/08/17 07:42	05/08/17 15:01	1
Phenol-d5 (Surr)	43		20 - 100				05/08/17 07:42	05/08/17 15:01	1
Terphenyl-d14 (Surr)	107		40 - 145				05/08/17 07:42	05/08/17 15:01	1

Lab Sample ID: LCS 500-384171/2-A
Matrix: Solid
Analysis Batch: 384241

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 384171

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits

TestAmerica Chicago

QC Sample Results

Client: TRC Environmental Corporation.
Project/Site: STH 11 Kentucky to Kearney - 275788

TestAmerica Job ID: 500-127505-1

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

Lab Sample ID: LCS 500-384171/2-A
Matrix: Solid
Analysis Batch: 384241

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 384171

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
2,4,5-Trichlorophenol	0.0400	0.0388		mg/L		97	63 - 120
2,4,6-Trichlorophenol	0.0400	0.0393		mg/L		98	62 - 110
2,4-Dinitrotoluene	0.0400	0.0432		mg/L		108	63 - 122
2-Methylphenol	0.0400	0.0342		mg/L		86	53 - 110
3 & 4 Methylphenol	0.0400	0.0329		mg/L		82	53 - 110
Hexachlorobenzene	0.0400	0.0375		mg/L		94	61 - 120
Hexachlorobutadiene	0.0400	0.0315		mg/L		79	20 - 100
Hexachloroethane	0.0400	0.0314		mg/L		79	20 - 100
Nitrobenzene	0.0400	0.0359		mg/L		90	53 - 110
Pentachlorophenol	0.0800	0.0779		mg/L		97	23 - 129
Pyridine	0.0400	0.0259		mg/L		65	15 - 110

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2,4,6-Tribromophenol (Surr)	98		40 - 145
2-Fluorobiphenyl	87		34 - 110
2-Fluorophenol (Surr)	61		27 - 110
Nitrobenzene-d5 (Surr)	92		36 - 120
Phenol-d5 (Surr)	44		20 - 100
Terphenyl-d14 (Surr)	103		40 - 145

Lab Sample ID: LB 500-383992/1-B
Matrix: Solid
Analysis Batch: 384241

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 384171

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	<0.020		0.020	0.020	mg/L		05/08/17 07:42	05/08/17 14:34	1
2,4,5-Trichlorophenol	<0.10		0.10	0.10	mg/L		05/08/17 07:42	05/08/17 14:34	1
2,4,6-Trichlorophenol	<0.050		0.050	0.050	mg/L		05/08/17 07:42	05/08/17 14:34	1
2,4-Dinitrotoluene	<0.010		0.010	0.010	mg/L		05/08/17 07:42	05/08/17 14:34	1
2-Methylphenol	<0.020		0.020	0.020	mg/L		05/08/17 07:42	05/08/17 14:34	1
3 & 4 Methylphenol	<0.020		0.020	0.020	mg/L		05/08/17 07:42	05/08/17 14:34	1
Hexachlorobenzene	<0.0050		0.0050	0.0050	mg/L		05/08/17 07:42	05/08/17 14:34	1
Hexachlorobutadiene	<0.050		0.050	0.050	mg/L		05/08/17 07:42	05/08/17 14:34	1
Hexachloroethane	<0.050		0.050	0.050	mg/L		05/08/17 07:42	05/08/17 14:34	1
Nitrobenzene	<0.010		0.010	0.010	mg/L		05/08/17 07:42	05/08/17 14:34	1
Pentachlorophenol	<0.20		0.20	0.20	mg/L		05/08/17 07:42	05/08/17 14:34	1
Pyridine	<0.20		0.20	0.20	mg/L		05/08/17 07:42	05/08/17 14:34	1

Surrogate	LB %Recovery	LB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	90		40 - 145	05/08/17 07:42	05/08/17 14:34	1
2-Fluorobiphenyl	84		34 - 110	05/08/17 07:42	05/08/17 14:34	1
2-Fluorophenol (Surr)	56		27 - 110	05/08/17 07:42	05/08/17 14:34	1
Nitrobenzene-d5 (Surr)	94		36 - 120	05/08/17 07:42	05/08/17 14:34	1
Phenol-d5 (Surr)	39		20 - 100	05/08/17 07:42	05/08/17 14:34	1
Terphenyl-d14 (Surr)	104		40 - 145	05/08/17 07:42	05/08/17 14:34	1

TestAmerica Chicago

QC Sample Results

Client: TRC Environmental Corporation.
 Project/Site: STH 11 Kentucky to Kearney - 275788

TestAmerica Job ID: 500-127505-1

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

Lab Sample ID: 500-127505-11 MS

Matrix: Solid
Analysis Batch: 384241

Client Sample ID: GP-05 (6-8)

Prep Type: TCLP
Prep Batch: 384171

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
1,4-Dichlorobenzene	<0.020		0.400	0.325		mg/L		81	23 - 110
2,4,5-Trichlorophenol	<0.10		0.400	0.399		mg/L		100	63 - 120
2,4,6-Trichlorophenol	<0.050		0.400	0.383		mg/L		96	62 - 110
2,4-Dinitrotoluene	<0.010		0.400	0.431		mg/L		108	63 - 122
2-Methylphenol	<0.020		0.400	0.339		mg/L		85	53 - 110
3 & 4 Methylphenol	<0.020		0.400	0.316		mg/L		79	53 - 110
Hexachlorobenzene	<0.0050		0.400	0.375		mg/L		94	61 - 120
Hexachlorobutadiene	<0.050		0.400	0.313		mg/L		78	20 - 100
Hexachloroethane	<0.050		0.400	0.319		mg/L		80	20 - 100
Nitrobenzene	<0.010		0.400	0.366		mg/L		91	53 - 110
Pentachlorophenol	<0.20		0.800	0.777		mg/L		97	23 - 129
Pyridine	<0.20		0.400	0.252		mg/L		63	15 - 110

Surrogate	MS %Recovery	MS Qualifier	Limits
2,4,6-Tribromophenol (Surr)	96		40 - 145
2-Fluorobiphenyl	83		34 - 110
2-Fluorophenol (Surr)	58		27 - 110
Nitrobenzene-d5 (Surr)	90		36 - 120
Phenol-d5 (Surr)	40		20 - 100
Terphenyl-d14 (Surr)	104		40 - 145

Method: WDNR - Wisconsin - Gasoline Range Organics (GC)

Lab Sample ID: MB 490-427841/40-A

Matrix: Solid
Analysis Batch: 428725

Client Sample ID: Method Blank

Prep Type: Total/NA
Prep Batch: 427841

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<18		25	18	ug/Kg		05/06/17 12:45	05/09/17 23:08	1
Ethylbenzene	<19		25	19	ug/Kg		05/06/17 12:45	05/09/17 23:08	1
Methyl tert-butyl ether	<12		25	12	ug/Kg		05/06/17 12:45	05/09/17 23:08	1
1,2,4-Trimethylbenzene	<15		25	15	ug/Kg		05/06/17 12:45	05/09/17 23:08	1
Naphthalene	<120		250	120	ug/Kg		05/06/17 12:45	05/09/17 23:08	1
1,3,5-Trimethylbenzene	<15		25	15	ug/Kg		05/06/17 12:45	05/09/17 23:08	1
Toluene	<17		25	17	ug/Kg		05/06/17 12:45	05/09/17 23:08	1
Xylenes, Total	<30		75	30	ug/Kg		05/06/17 12:45	05/09/17 23:08	1
Wisconsin GRO	<2500		5000	2500	ug/Kg		05/06/17 12:45	05/09/17 23:08	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	88		80 - 120	05/06/17 12:45	05/09/17 23:08	1
a,a,a-Trifluorotoluene	98		80 - 120	05/06/17 12:45	05/09/17 23:08	1

TestAmerica Chicago

QC Sample Results

Client: TRC Environmental Corporation.
 Project/Site: STH 11 Kentucky to Kearney - 275788

TestAmerica Job ID: 500-127505-1

Method: WDNR - Wisconsin - Gasoline Range Organics (GC) (Continued)

Lab Sample ID: LCS 490-427841/41-A

Matrix: Solid
Analysis Batch: 428725

Client Sample ID: Lab Control Sample

Prep Type: Total/NA
Prep Batch: 427841

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Benzene	5000	4490		ug/Kg		90	76 - 120
Ethylbenzene	5000	4530		ug/Kg		91	77 - 120
Methyl tert-butyl ether	5000	5200		ug/Kg		104	73 - 120
1,2,4-Trimethylbenzene	5000	4540		ug/Kg		91	60 - 140
Naphthalene	5000	5460		ug/Kg		109	74 - 127
1,3,5-Trimethylbenzene	5000	4580		ug/Kg		92	74 - 133
Toluene	5000	4540		ug/Kg		91	79 - 120
Wisconsin GRO	50000	52600		ug/Kg		105	80 - 120

Surrogate	LCS %Recovery	LCS Qualifier	Limits
<i>a,a,a-Trifluorotoluene</i>	96		80 - 120
<i>a,a,a-Trifluorotoluene</i>	102		80 - 120

Lab Sample ID: LCSD 490-427841/42-A

Matrix: Solid
Analysis Batch: 428725

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA
Prep Batch: 427841

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	5000	4750		ug/Kg		95	76 - 120	6	27
Ethylbenzene	5000	4630		ug/Kg		93	77 - 120	2	49
Methyl tert-butyl ether	5000	5360		ug/Kg		107	73 - 120	3	31
1,2,4-Trimethylbenzene	5000	4700		ug/Kg		94	60 - 140	3	50
Naphthalene	5000	5190		ug/Kg		104	74 - 127	5	50
1,3,5-Trimethylbenzene	5000	4740		ug/Kg		95	74 - 133	4	42
Toluene	5000	4780		ug/Kg		96	79 - 120	5	37
Wisconsin GRO	50000	53700		ug/Kg		107	80 - 120	2	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
<i>a,a,a-Trifluorotoluene</i>	97		80 - 120
<i>a,a,a-Trifluorotoluene</i>	99		80 - 120

Method: WI-GRO - Wisconsin - Gasoline Range Organics (GC)

Lab Sample ID: LB3 500-384046/21-A

Matrix: Solid
Analysis Batch: 384093

Client Sample ID: Method Blank

Prep Type: Total/NA
Prep Batch: 384046

Analyte	LB3 Result	LB3 Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
WI Gasoline Range Organics (C5-C10)	<500		1500	500	ug/Kg		05/06/17 01:30	05/07/17 20:24	50

Lab Sample ID: LCS 500-384046/23-A

Matrix: Solid
Analysis Batch: 384093

Client Sample ID: Lab Control Sample

Prep Type: Total/NA
Prep Batch: 384046

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
WI Gasoline Range Organics (C5-C10)	20000	22800		ug/Kg		114	80 - 120

TestAmerica Chicago

QC Sample Results

Client: TRC Environmental Corporation.
Project/Site: STH 11 Kentucky to Kearney - 275788

TestAmerica Job ID: 500-127505-1

Lab Sample ID: LCSD 500-384046/24-A
Matrix: Solid
Analysis Batch: 384093

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 384046

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
WI Gasoline Range Organics (C5-C10)	20000	22900		ug/Kg		114	80 - 120	0	20

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

Lab Sample ID: MB 500-384456/1-A
Matrix: Solid
Analysis Batch: 384545

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 384456

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<5.9		17	5.9	ug/Kg		05/09/17 16:38	05/10/17 11:02	1
PCB-1221	<7.3		17	7.3	ug/Kg		05/09/17 16:38	05/10/17 11:02	1
PCB-1232	<7.3		17	7.3	ug/Kg		05/09/17 16:38	05/10/17 11:02	1
PCB-1242	<5.5		17	5.5	ug/Kg		05/09/17 16:38	05/10/17 11:02	1
PCB-1248	<6.6		17	6.6	ug/Kg		05/09/17 16:38	05/10/17 11:02	1
PCB-1254	<3.6		17	3.6	ug/Kg		05/09/17 16:38	05/10/17 11:02	1
PCB-1260	<8.2		17	8.2	ug/Kg		05/09/17 16:38	05/10/17 11:02	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	76		49 - 129	05/09/17 16:38	05/10/17 11:02	1
DCB Decachlorobiphenyl	70		37 - 121	05/09/17 16:38	05/10/17 11:02	1

Lab Sample ID: LCS 500-384456/2-A
Matrix: Solid
Analysis Batch: 384545

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 384456

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
PCB-1016	167	135		ug/Kg		81	57 - 120
PCB-1260	167	130		ug/Kg		78	61 - 125

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Tetrachloro-m-xylene	76		49 - 129
DCB Decachlorobiphenyl	63		37 - 121

Method: WI-DRO - Wisconsin - Diesel Range Organics (GC)

Lab Sample ID: MB 500-383737/1-A
Matrix: Solid
Analysis Batch: 383957

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 383737

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
WI Diesel Range Organics (C10-C28)	<1.6		4.0	1.6	mg/Kg		05/04/17 11:15	05/05/17 14:27	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
n-Nonane	83		44 - 148	05/04/17 11:15	05/05/17 14:27	1

TestAmerica Chicago

QC Sample Results

Client: TRC Environmental Corporation.
Project/Site: STH 11 Kentucky to Kearney - 275788

TestAmerica Job ID: 500-127505-1

Method: WI-DRO - Wisconsin - Diesel Range Organics (GC) (Continued)

Lab Sample ID: LCS 500-383737/2-A
Matrix: Solid
Analysis Batch: 383957

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 383737

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
WI Diesel Range Organics (C10-C28)	20.0	14.9		mg/Kg		75	70 - 120
Surrogate	%Recovery	LCS Qualifier	Limits				
n-Nonane	77		44 - 148				

Lab Sample ID: LCSD 500-383737/3-A
Matrix: Solid
Analysis Batch: 383957

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 383737

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	Limits	RPD	Limit
WI Diesel Range Organics (C10-C28)	20.0	16.3		mg/Kg		81	70 - 120	9	20
Surrogate	%Recovery	LCSD Qualifier	Limits						
n-Nonane	71		44 - 148						

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 500-383993/1-A
Matrix: Solid
Analysis Batch: 384865

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 383993

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	<0.23		0.50	0.23	mg/Kg		05/05/17 15:07	05/11/17 21:41	1

Lab Sample ID: LCS 500-383993/2-A
Matrix: Solid
Analysis Batch: 384865

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 383993

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Lead	10.0	8.59		mg/Kg		86	80 - 120

Lab Sample ID: 500-127505-25 MS
Matrix: Solid
Analysis Batch: 384865

Client Sample ID: GP-11 (6-8)
Prep Type: Total/NA
Prep Batch: 383993

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Lead	11		10.1	20.6		mg/Kg	☼	90	75 - 125

Lab Sample ID: 500-127505-25 MSD
Matrix: Solid
Analysis Batch: 384865

Client Sample ID: GP-11 (6-8)
Prep Type: Total/NA
Prep Batch: 383993

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Lead	11		10.2	24.1		mg/Kg	☼	124	75 - 125	16	20

TestAmerica Chicago

QC Sample Results

Client: TRC Environmental Corporation.
 Project/Site: STH 11 Kentucky to Kearney - 275788

TestAmerica Job ID: 500-127505-1

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: 500-127505-25 DU
Matrix: Solid
Analysis Batch: 384865

Client Sample ID: GP-11 (6-8)
Prep Type: Total/NA
Prep Batch: 383993

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
Lead	11		21.6	F3	mg/Kg	☼	61	20

Lab Sample ID: LCS 500-384187/2-A
Matrix: Solid
Analysis Batch: 384328

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 384187

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Arsenic	0.100	0.0958		mg/L		96	80 - 120
Barium	0.500	0.514		mg/L		103	80 - 120
Cadmium	0.0500	0.0503		mg/L		101	80 - 120
Chromium	0.200	0.194		mg/L		97	80 - 120
Copper	0.250	0.254		mg/L		102	80 - 120
Lead	0.100	0.0943		mg/L		94	80 - 120
Nickel	0.500	0.486		mg/L		97	80 - 120
Selenium	0.100	0.0946		mg/L		95	80 - 120
Silver	0.0500	0.0473		mg/L		95	80 - 120
Zinc	0.500	0.457		mg/L		91	80 - 120

Lab Sample ID: LB 500-383992/1-C
Matrix: Solid
Analysis Batch: 384328

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 384187

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.010		0.050	0.010	mg/L		05/08/17 08:10	05/08/17 20:33	1
Barium	<0.050		0.50	0.050	mg/L		05/08/17 08:10	05/08/17 20:33	1
Cadmium	<0.0020		0.0050	0.0020	mg/L		05/08/17 08:10	05/08/17 20:33	1
Chromium	<0.010		0.025	0.010	mg/L		05/08/17 08:10	05/08/17 20:33	1
Copper	<0.010		0.025	0.010	mg/L		05/08/17 08:10	05/08/17 20:33	1
Lead	<0.0075		0.050	0.0075	mg/L		05/08/17 08:10	05/08/17 20:33	1
Nickel	<0.010		0.025	0.010	mg/L		05/08/17 08:10	05/08/17 20:33	1
Selenium	<0.020		0.050	0.020	mg/L		05/08/17 08:10	05/08/17 20:33	1
Silver	<0.010		0.025	0.010	mg/L		05/08/17 08:10	05/08/17 20:33	1
Zinc	<0.020		0.10	0.020	mg/L		05/08/17 08:10	05/08/17 20:33	1

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 500-384260/12-A
Matrix: Solid
Analysis Batch: 384394

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 384260

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		05/08/17 13:40	05/09/17 10:03	1

Lab Sample ID: LCS 500-384260/13-A
Matrix: Solid
Analysis Batch: 384394

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 384260

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Mercury	0.00200	0.00212		mg/L		106	80 - 120

TestAmerica Chicago

QC Sample Results

Client: TRC Environmental Corporation.
 Project/Site: STH 11 Kentucky to Kearney - 275788

TestAmerica Job ID: 500-127505-1

Lab Sample ID: LB 500-383992/1-D
Matrix: Solid
Analysis Batch: 384394

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 384260

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		05/08/17 13:40	05/09/17 10:06	1

Method: 9014 - Cyanide

Lab Sample ID: MB 500-384580/1-A
Matrix: Solid
Analysis Batch: 384641

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 384580

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.17		0.50	0.17	mg/Kg		05/10/17 12:50	05/10/17 15:33	1

Lab Sample ID: LCS 500-384580/2-A
Matrix: Solid
Analysis Batch: 384641

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 384580

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide, Total	5.00	5.00		mg/Kg		100	80 - 120

Method: 9034 - Sulfide, Acid soluble and Insoluble (Titrimetric)

Lab Sample ID: MB 500-385245/1-A
Matrix: Solid
Analysis Batch: 385402

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 385245

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide	<4.7		10	4.7	mg/Kg		05/15/17 17:36	05/15/17 21:39	1

Lab Sample ID: LCS 500-385245/2-A
Matrix: Solid
Analysis Batch: 385402

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 385245

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfide	338	335		mg/Kg		99	80 - 120

Lab Chronicle

Client: TRC Environmental Corporation.
Project/Site: STH 11 Kentucky to Kearney - 275788

TestAmerica Job ID: 500-127505-1

Client Sample ID: GP-01 (0-2)

Date Collected: 05/01/17 08:35

Date Received: 05/03/17 09:00

Lab Sample ID: 500-127505-1

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	427523	05/04/17 14:50	BAA	TAL NSH

Client Sample ID: GP-01 (0-2)

Date Collected: 05/01/17 08:35

Date Received: 05/03/17 09:00

Lab Sample ID: 500-127505-1

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	WI GRO			427841	05/05/17 15:52	CU	TAL NSH
Total/NA	Analysis	WDNR		1	428725	05/09/17 23:35	FKG	TAL NSH

Client Sample ID: GP-01 (6-8)

Date Collected: 05/01/17 08:45

Date Received: 05/03/17 09:00

Lab Sample ID: 500-127505-2

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	427523	05/04/17 14:50	BAA	TAL NSH

Client Sample ID: GP-01 (6-8)

Date Collected: 05/01/17 08:45

Date Received: 05/03/17 09:00

Lab Sample ID: 500-127505-2

Matrix: Solid

Percent Solids: 85.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	WI GRO			427841	05/05/17 15:52	CU	TAL NSH
Total/NA	Analysis	WDNR		1	428725	05/10/17 00:02	FKG	TAL NSH

Client Sample ID: GP-02 (2-4)

Date Collected: 05/01/17 09:15

Date Received: 05/03/17 09:00

Lab Sample ID: 500-127505-3

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	427523	05/04/17 14:50	BAA	TAL NSH

Client Sample ID: GP-02 (2-4)

Date Collected: 05/01/17 09:15

Date Received: 05/03/17 09:00

Lab Sample ID: 500-127505-3

Matrix: Solid

Percent Solids: 83.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	WI GRO			427841	05/05/17 15:52	CU	TAL NSH
Total/NA	Analysis	WDNR		1	428725	05/10/17 00:28	FKG	TAL NSH

TestAmerica Chicago

Lab Chronicle

Client: TRC Environmental Corporation.
Project/Site: STH 11 Kentucky to Kearney - 275788

TestAmerica Job ID: 500-127505-1

Client Sample ID: GP-02 (6-8)

Lab Sample ID: 500-127505-4

Date Collected: 05/01/17 09:25

Matrix: Solid

Date Received: 05/03/17 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	427523	05/04/17 14:50	BAA	TAL NSH

Client Sample ID: GP-02 (6-8)

Lab Sample ID: 500-127505-4

Date Collected: 05/01/17 09:25

Matrix: Solid

Date Received: 05/03/17 09:00

Percent Solids: 78.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	WI GRO			427841	05/05/17 15:52	CU	TAL NSH
Total/NA	Analysis	WDNR		1	428725	05/10/17 00:55	FKG	TAL NSH

Client Sample ID: GP-02 (14-16)

Lab Sample ID: 500-127505-5

Date Collected: 05/01/17 09:30

Matrix: Solid

Date Received: 05/03/17 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	427523	05/04/17 14:50	BAA	TAL NSH

Client Sample ID: GP-02 (14-16)

Lab Sample ID: 500-127505-5

Date Collected: 05/01/17 09:30

Matrix: Solid

Date Received: 05/03/17 09:00

Percent Solids: 86.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	WI GRO			427841	05/05/17 15:52	CU	TAL NSH
Total/NA	Analysis	WDNR		1	428725	05/10/17 08:30	FKG	TAL NSH

Client Sample ID: GP-03 (2-4)

Lab Sample ID: 500-127505-6

Date Collected: 05/01/17 10:10

Matrix: Solid

Date Received: 05/03/17 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	383751	05/04/17 12:11	LWN	TAL CHI

Client Sample ID: GP-03 (2-4)

Lab Sample ID: 500-127505-6

Date Collected: 05/01/17 10:10

Matrix: Solid

Date Received: 05/03/17 09:00

Percent Solids: 81.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			384046	05/01/17 10:10	WRE	TAL CHI
Total/NA	Analysis	8260B		50	385134	05/15/17 12:30	TCT	TAL CHI
Total/NA	Prep	3050B			383993	05/05/17 15:07	JNH	TAL CHI
Total/NA	Analysis	6010B		1	384865	05/11/17 21:48	PJ1	TAL CHI

TestAmerica Chicago

Lab Chronicle

Client: TRC Environmental Corporation.
Project/Site: STH 11 Kentucky to Kearney - 275788

TestAmerica Job ID: 500-127505-1

Client Sample ID: GP-03 (6-8)

Date Collected: 05/01/17 10:15

Date Received: 05/03/17 09:00

Lab Sample ID: 500-127505-7

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	383751	05/04/17 12:11	LWN	TAL CHI

Client Sample ID: GP-03 (6-8)

Date Collected: 05/01/17 10:15

Date Received: 05/03/17 09:00

Lab Sample ID: 500-127505-7

Matrix: Solid

Percent Solids: 87.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			384046	05/01/17 10:15	WRE	TAL CHI
Total/NA	Analysis	8260B		50	385134	05/15/17 12:59	TCT	TAL CHI
Total/NA	Prep	3050B			383993	05/05/17 15:07	JNH	TAL CHI
Total/NA	Analysis	6010B		1	384865	05/11/17 21:52	PJ1	TAL CHI

Client Sample ID: GP-04 (2-4)

Date Collected: 05/01/17 10:35

Date Received: 05/03/17 09:00

Lab Sample ID: 500-127505-8

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	383751	05/04/17 12:11	LWN	TAL CHI

Client Sample ID: GP-04 (2-4)

Date Collected: 05/01/17 10:35

Date Received: 05/03/17 09:00

Lab Sample ID: 500-127505-8

Matrix: Solid

Percent Solids: 89.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			384046	05/01/17 10:35	WRE	TAL CHI
Total/NA	Analysis	8260B		50	385134	05/15/17 13:28	TCT	TAL CHI
Total/NA	Prep	3050B			383993	05/05/17 15:07	JNH	TAL CHI
Total/NA	Analysis	6010B		1	384865	05/11/17 21:56	PJ1	TAL CHI

Client Sample ID: GP-04 (6-8)

Date Collected: 05/01/17 10:40

Date Received: 05/03/17 09:00

Lab Sample ID: 500-127505-9

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	383751	05/04/17 12:11	LWN	TAL CHI

Client Sample ID: GP-04 (6-8)

Date Collected: 05/01/17 10:40

Date Received: 05/03/17 09:00

Lab Sample ID: 500-127505-9

Matrix: Solid

Percent Solids: 85.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			384046	05/01/17 10:40	WRE	TAL CHI

TestAmerica Chicago

Lab Chronicle

Client: TRC Environmental Corporation.
Project/Site: STH 11 Kentucky to Kearney - 275788

TestAmerica Job ID: 500-127505-1

Client Sample ID: GP-04 (6-8)

Lab Sample ID: 500-127505-9

Date Collected: 05/01/17 10:40

Matrix: Solid

Date Received: 05/03/17 09:00

Percent Solids: 85.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		50	385134	05/15/17 13:58	TCT	TAL CHI
Total/NA	Prep	3050B			383993	05/05/17 15:07	JNH	TAL CHI
Total/NA	Analysis	6010B		1	384865	05/11/17 22:01	PJ1	TAL CHI

Client Sample ID: GP-05 (2-4)

Lab Sample ID: 500-127505-10

Date Collected: 05/01/17 11:00

Matrix: Solid

Date Received: 05/03/17 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	383751	05/04/17 12:11	LWN	TAL CHI

Client Sample ID: GP-05 (2-4)

Lab Sample ID: 500-127505-10

Date Collected: 05/01/17 11:00

Matrix: Solid

Date Received: 05/03/17 09:00

Percent Solids: 82.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			384046	05/01/17 11:00	WRE	TAL CHI
Total/NA	Analysis	8260B		50	385134	05/15/17 14:27	TCT	TAL CHI
Total/NA	Prep	3050B			383993	05/05/17 15:07	JNH	TAL CHI
Total/NA	Analysis	6010B		1	384865	05/11/17 22:05	PJ1	TAL CHI

Client Sample ID: GP-05 (6-8)

Lab Sample ID: 500-127505-11

Date Collected: 05/01/17 11:10

Matrix: Solid

Date Received: 05/03/17 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			384086	05/06/17 13:35	RMP	TAL CHI
TCLP	Analysis	8260B		20	384262	05/09/17 00:42	JMP	TAL CHI
TCLP	Leach	1311			383992	05/05/17 15:05	RMP	TAL CHI
TCLP	Prep	3510C			384171	05/08/17 07:42	JJH	TAL CHI
TCLP	Analysis	8270D		1	384241	05/08/17 15:28	GES	TAL CHI
TCLP	Leach	1311			383992	05/05/17 15:05	RMP	TAL CHI
TCLP	Prep	3010A			384187	05/08/17 08:10	JEF	TAL CHI
TCLP	Analysis	6010B		1	384328	05/08/17 21:40	PJ1	TAL CHI
TCLP	Leach	1311			383992	05/05/17 15:05	RMP	TAL CHI
TCLP	Prep	7470A			384260	05/08/17 13:40	MJD	TAL CHI
TCLP	Analysis	7470A		1	384394	05/09/17 10:12	MJD	TAL CHI
Total/NA	Analysis	1010		1	384856	05/11/17 16:20 (Start) (End) 05/11/17 18:10	ADK	TAL CHI
Total/NA	Prep	9010B			384580	05/10/17 12:50	MAN	TAL CHI
Total/NA	Analysis	9014		1	384641	05/10/17 15:36 (Start) (End) 05/10/17 15:37	MAN	TAL CHI

TestAmerica Chicago

Lab Chronicle

Client: TRC Environmental Corporation.
 Project/Site: STH 11 Kentucky to Kearney - 275788

TestAmerica Job ID: 500-127505-1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	9030B			385245	05/15/17 17:36	JBJ	TAL CHI
Total/NA	Analysis	9034		1	385402	05/15/17 21:48	JBJ	TAL CHI
Total/NA	Analysis	9045C		1	384553	(Start) 05/09/17 16:02 (End) 05/09/17 16:04	SMO	TAL CHI
Total/NA	Analysis	9095A		1	384855	(Start) 05/11/17 22:39 (End) 05/11/17 22:41	ADK	TAL CHI
Total/NA	Analysis	Moisture		1	383751	05/04/17 12:11	LWN	TAL CHI
Total/NA	Analysis	SM 2710F		1	385047	(Start) 05/12/17 22:07 (End) 05/12/17 22:11	ADK	TAL CHI

Client Sample ID: GP-05 (6-8)

Lab Sample ID: 500-127505-11

Date Collected: 05/01/17 11:10

Matrix: Solid

Date Received: 05/03/17 09:00

Percent Solids: 86.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	WI GRO			384046	05/01/17 11:10	WRE	TAL CHI
Total/NA	Analysis	8260B		50	385134	05/15/17 14:56	TCT	TAL CHI
Total/NA	Prep	WI GRO			384046	05/01/17 11:10	WRE	TAL CHI
Total/NA	Analysis	WI-GRO		50	384093	05/07/17 21:31	WRE	TAL CHI
Total/NA	Prep	3541			384456	05/09/17 16:38	JP1	TAL CHI
Total/NA	Analysis	8082A		1	384545	05/10/17 13:35	BJH	TAL CHI
Total/NA	Prep	WI DRO PREP			383737	05/04/17 11:15	LMC	TAL CHI
Total/NA	Analysis	WI-DRO		1	383957	05/05/17 15:38	SAW	TAL CHI
Total/NA	Prep	3050B			383993	05/05/17 15:07	JNH	TAL CHI
Total/NA	Analysis	6010B		1	384865	05/11/17 22:09	PJ1	TAL CHI

Client Sample ID: GP-05 (14-16)

Lab Sample ID: 500-127505-12

Date Collected: 05/01/17 11:20

Matrix: Solid

Date Received: 05/03/17 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	383751	05/04/17 12:11	LWN	TAL CHI

Client Sample ID: GP-05 (14-16)

Lab Sample ID: 500-127505-12

Date Collected: 05/01/17 11:20

Matrix: Solid

Date Received: 05/03/17 09:00

Percent Solids: 87.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			384046	05/01/17 11:20	WRE	TAL CHI
Total/NA	Analysis	8260B		50	385134	05/15/17 15:25	TCT	TAL CHI
Total/NA	Prep	3050B			383993	05/05/17 15:07	JNH	TAL CHI
Total/NA	Analysis	6010B		1	384865	05/11/17 22:14	PJ1	TAL CHI

TestAmerica Chicago

Lab Chronicle

Client: TRC Environmental Corporation.
Project/Site: STH 11 Kentucky to Kearney - 275788

TestAmerica Job ID: 500-127505-1

Client Sample ID: GP-06 (2-4)

Lab Sample ID: 500-127505-13

Date Collected: 05/01/17 12:00

Matrix: Solid

Date Received: 05/03/17 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	427523	05/04/17 14:50	BAA	TAL NSH

Client Sample ID: GP-06 (2-4)

Lab Sample ID: 500-127505-13

Date Collected: 05/01/17 12:00

Matrix: Solid

Date Received: 05/03/17 09:00

Percent Solids: 80.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	WI GRO			427841	05/05/17 15:52	CU	TAL NSH
Total/NA	Analysis	WDNR		1	428725	05/10/17 01:22	FKG	TAL NSH

Client Sample ID: GP-06 (6-8)

Lab Sample ID: 500-127505-14

Date Collected: 05/01/17 12:05

Matrix: Solid

Date Received: 05/03/17 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	427523	05/04/17 14:50	BAA	TAL NSH

Client Sample ID: GP-06 (6-8)

Lab Sample ID: 500-127505-14

Date Collected: 05/01/17 12:05

Matrix: Solid

Date Received: 05/03/17 09:00

Percent Solids: 84.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	WI GRO			427841	05/05/17 15:52	CU	TAL NSH
Total/NA	Analysis	WDNR		1	428725	05/10/17 01:49	FKG	TAL NSH

Client Sample ID: GP-07 (2-4)

Lab Sample ID: 500-127505-15

Date Collected: 05/01/17 12:30

Matrix: Solid

Date Received: 05/03/17 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	427523	05/04/17 14:50	BAA	TAL NSH

Client Sample ID: GP-07 (2-4)

Lab Sample ID: 500-127505-15

Date Collected: 05/01/17 12:30

Matrix: Solid

Date Received: 05/03/17 09:00

Percent Solids: 79.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	WI GRO			427841	05/05/17 15:52	CU	TAL NSH
Total/NA	Analysis	WDNR		1	428725	05/10/17 02:15	FKG	TAL NSH

TestAmerica Chicago

Lab Chronicle

Client: TRC Environmental Corporation.
Project/Site: STH 11 Kentucky to Kearney - 275788

TestAmerica Job ID: 500-127505-1

Client Sample ID: GP-07 (6-8)

Lab Sample ID: 500-127505-16

Date Collected: 05/01/17 12:35

Matrix: Solid

Date Received: 05/03/17 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			384086	05/06/17 13:35	RMP	TAL CHI
TCLP	Analysis	8260B		20	384262	05/09/17 01:09	JMP	TAL CHI
TCLP	Leach	1311			383992	05/05/17 15:05	RMP	TAL CHI
TCLP	Prep	3510C			384171	05/08/17 07:42	JJH	TAL CHI
TCLP	Analysis	8270D		1	384241	05/08/17 17:46	GES	TAL CHI
TCLP	Leach	1311			383992	05/05/17 15:05	RMP	TAL CHI
TCLP	Prep	3010A			384187	05/08/17 08:10	JEF	TAL CHI
TCLP	Analysis	6010B		1	384328	05/08/17 21:45	PJ1	TAL CHI
TCLP	Leach	1311			383992	05/05/17 15:05	RMP	TAL CHI
TCLP	Prep	7470A			384260	05/08/17 13:40	MJD	TAL CHI
TCLP	Analysis	7470A		1	384394	05/09/17 10:13	MJD	TAL CHI
Total/NA	Analysis	1010		1	384856		ADK	TAL CHI
						(Start) 05/11/17 18:10		
						(End) 05/11/17 20:00		
Total/NA	Prep	9010B			384580	05/10/17 12:50	MAN	TAL CHI
Total/NA	Analysis	9014		1	384641		MAN	TAL CHI
						(Start) 05/10/17 15:37		
						(End) 05/10/17 15:37		
Total/NA	Prep	9030B			385245	05/15/17 17:36	JBj	TAL CHI
Total/NA	Analysis	9034		1	385402	05/15/17 21:49	JBj	TAL CHI
Total/NA	Analysis	9045C		1	384553		SMO	TAL CHI
						(Start) 05/09/17 16:04		
						(End) 05/09/17 16:06		
Total/NA	Analysis	9095A		1	384855		ADK	TAL CHI
						(Start) 05/11/17 22:41		
						(End) 05/11/17 22:43		
Total/NA	Analysis	Moisture		1	383751	05/04/17 12:11	LWN	TAL CHI
Total/NA	Analysis	SM 2710F		1	385047		ADK	TAL CHI
						(Start) 05/12/17 22:11		
						(End) 05/12/17 22:15		

Client Sample ID: GP-07 (6-8)

Lab Sample ID: 500-127505-16

Date Collected: 05/01/17 12:35

Matrix: Solid

Date Received: 05/03/17 09:00

Percent Solids: 87.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	WI GRO			427841	05/05/17 15:52	CU	TAL NSH
Total/NA	Analysis	WDNR		1	428725	05/10/17 02:42	FKG	TAL NSH
Total/NA	Prep	3541			384456	05/09/17 16:38	JP1	TAL CHI
Total/NA	Analysis	8082A		1	384545	05/10/17 13:50	BJH	TAL CHI
Total/NA	Prep	WI DRO PREP			383737	05/04/17 11:15	LMC	TAL CHI
Total/NA	Analysis	WI-DRO		1	383957	05/05/17 16:14	SAW	TAL CHI

TestAmerica Chicago

Lab Chronicle

Client: TRC Environmental Corporation.
Project/Site: STH 11 Kentucky to Kearney - 275788

TestAmerica Job ID: 500-127505-1

Client Sample ID: GP-07 (14-16)

Lab Sample ID: 500-127505-17

Date Collected: 05/01/17 12:50

Matrix: Solid

Date Received: 05/03/17 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	427523	05/04/17 14:50	BAA	TAL NSH

Client Sample ID: GP-07 (14-16)

Lab Sample ID: 500-127505-17

Date Collected: 05/01/17 12:50

Matrix: Solid

Date Received: 05/03/17 09:00

Percent Solids: 86.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	WI GRO			427841	05/05/17 15:52	CU	TAL NSH
Total/NA	Analysis	WDNR		1	428725	05/10/17 03:09	FKG	TAL NSH

Client Sample ID: GP-08 (2-4)

Lab Sample ID: 500-127505-18

Date Collected: 05/01/17 13:45

Matrix: Solid

Date Received: 05/03/17 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	427523	05/04/17 14:50	BAA	TAL NSH

Client Sample ID: GP-08 (2-4)

Lab Sample ID: 500-127505-18

Date Collected: 05/01/17 13:45

Matrix: Solid

Date Received: 05/03/17 09:00

Percent Solids: 88.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	WI GRO			427841	05/05/17 15:52	CU	TAL NSH
Total/NA	Analysis	WDNR		1	428725	05/10/17 08:04	FKG	TAL NSH
Total/NA	Prep	3050B			383993	05/05/17 15:07	JNH	TAL CHI
Total/NA	Analysis	6010B		1	384865	05/11/17 22:19	PJ1	TAL CHI

Client Sample ID: GP-08 (6-8)

Lab Sample ID: 500-127505-19

Date Collected: 05/01/17 13:50

Matrix: Solid

Date Received: 05/03/17 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	427523	05/04/17 14:50	BAA	TAL NSH

Client Sample ID: GP-08 (6-8)

Lab Sample ID: 500-127505-19

Date Collected: 05/01/17 13:50

Matrix: Solid

Date Received: 05/03/17 09:00

Percent Solids: 89.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	WI GRO			427841	05/05/17 15:52	CU	TAL NSH
Total/NA	Analysis	WDNR		1	428725	05/10/17 03:36	FKG	TAL NSH
Total/NA	Prep	3050B			383993	05/05/17 15:07	JNH	TAL CHI

TestAmerica Chicago

Lab Chronicle

Client: TRC Environmental Corporation.
Project/Site: STH 11 Kentucky to Kearney - 275788

TestAmerica Job ID: 500-127505-1

Client Sample ID: GP-08 (6-8)

Lab Sample ID: 500-127505-19

Date Collected: 05/01/17 13:50

Matrix: Solid

Date Received: 05/03/17 09:00

Percent Solids: 89.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	6010B		1	384865	05/11/17 22:31	PJ1	TAL CHI

Client Sample ID: GP-09 (2-4)

Lab Sample ID: 500-127505-20

Date Collected: 05/01/17 14:20

Matrix: Solid

Date Received: 05/03/17 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	427523	05/04/17 14:50	BAA	TAL NSH

Client Sample ID: GP-09 (2-4)

Lab Sample ID: 500-127505-20

Date Collected: 05/01/17 14:20

Matrix: Solid

Date Received: 05/03/17 09:00

Percent Solids: 85.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	WI GRO			427841	05/05/17 15:52	CU	TAL NSH
Total/NA	Analysis	WDNR		1	428725	05/10/17 05:23	FKG	TAL NSH
Total/NA	Prep	3050B			383993	05/05/17 15:07	JNH	TAL CHI
Total/NA	Analysis	6010B		1	384865	05/11/17 22:35	PJ1	TAL CHI

Client Sample ID: GP-09 (6-8)

Lab Sample ID: 500-127505-21

Date Collected: 05/01/17 14:25

Matrix: Solid

Date Received: 05/03/17 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	427523	05/04/17 14:50	BAA	TAL NSH

Client Sample ID: GP-09 (6-8)

Lab Sample ID: 500-127505-21

Date Collected: 05/01/17 14:25

Matrix: Solid

Date Received: 05/03/17 09:00

Percent Solids: 84.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	WI GRO			427841	05/05/17 15:52	CU	TAL NSH
Total/NA	Analysis	WDNR		1	428725	05/10/17 05:50	FKG	TAL NSH
Total/NA	Prep	3050B			383993	05/05/17 15:07	JNH	TAL CHI
Total/NA	Analysis	6010B		1	384865	05/11/17 22:40	PJ1	TAL CHI

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

Lab Sample ID: 500-127505-22

Date Collected: 05/01/17 14:35

Matrix: Solid

Date Received: 05/03/17 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	427523	05/04/17 14:50	BAA	TAL NSH

TestAmerica Chicago

Lab Chronicle

Client: TRC Environmental Corporation.
Project/Site: STH 11 Kentucky to Kearney - 275788

TestAmerica Job ID: 500-127505-1

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

Lab Sample ID: 500-127505-22

Date Collected: 05/01/17 14:35

Matrix: Solid

Date Received: 05/03/17 09:00

Percent Solids: 83.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	WI GRO			427841	05/05/17 15:52	CU	TAL NSH
Total/NA	Analysis	WDNR		1	428725	05/10/17 06:16	FKG	TAL NSH
Total/NA	Prep	3050B			383993	05/05/17 15:07	JNH	TAL CHI
Total/NA	Analysis	6010B		1	384865	05/11/17 22:44	PJ1	TAL CHI

Client Sample ID: GP-10 (6-8)

Lab Sample ID: 500-127505-23

Date Collected: 05/01/17 14:40

Matrix: Solid

Date Received: 05/03/17 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	427540	05/04/17 15:20	BAA	TAL NSH

Client Sample ID: GP-10 (6-8)

Lab Sample ID: 500-127505-23

Date Collected: 05/01/17 14:40

Matrix: Solid

Date Received: 05/03/17 09:00

Percent Solids: 84.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	WI GRO			427841	05/05/17 15:52	CU	TAL NSH
Total/NA	Analysis	WDNR		1	428725	05/10/17 06:43	FKG	TAL NSH
Total/NA	Prep	3050B			383993	05/05/17 15:07	JNH	TAL CHI
Total/NA	Analysis	6010B		1	384865	05/11/17 22:47	PJ1	TAL CHI

Client Sample ID: GP-11 (2-4)

Lab Sample ID: 500-127505-24

Date Collected: 05/01/17 15:00

Matrix: Solid

Date Received: 05/03/17 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	427540	05/04/17 15:20	BAA	TAL NSH

Client Sample ID: GP-11 (2-4)

Lab Sample ID: 500-127505-24

Date Collected: 05/01/17 15:00

Matrix: Solid

Date Received: 05/03/17 09:00

Percent Solids: 88.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	WI GRO			427841	05/05/17 15:52	CU	TAL NSH
Total/NA	Analysis	WDNR		1	428725	05/10/17 07:10	FKG	TAL NSH
Total/NA	Prep	3050B			383993	05/05/17 15:07	JNH	TAL CHI
Total/NA	Analysis	6010B		1	384865	05/11/17 22:50	PJ1	TAL CHI

TestAmerica Chicago

Lab Chronicle

Client: TRC Environmental Corporation.
Project/Site: STH 11 Kentucky to Kearney - 275788

TestAmerica Job ID: 500-127505-1

Client Sample ID: GP-11 (6-8)

Lab Sample ID: 500-127505-25

Date Collected: 05/01/17 15:05

Matrix: Solid

Date Received: 05/03/17 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			384086	05/06/17 13:35	RMP	TAL CHI
TCLP	Analysis	8260B		20	384262	05/09/17 01:35	JMP	TAL CHI
TCLP	Leach	1311			383992	05/05/17 15:05	RMP	TAL CHI
TCLP	Prep	3510C			384171	05/08/17 07:42	JJH	TAL CHI
TCLP	Analysis	8270D		1	384241	05/08/17 18:13	GES	TAL CHI
TCLP	Leach	1311			383992	05/05/17 15:05	RMP	TAL CHI
TCLP	Prep	3010A			384187	05/08/17 08:10	JEF	TAL CHI
TCLP	Analysis	6010B		1	384328	05/08/17 21:50	PJ1	TAL CHI
TCLP	Leach	1311			383992	05/05/17 15:05	RMP	TAL CHI
TCLP	Prep	7470A			384260	05/08/17 13:40	MJD	TAL CHI
TCLP	Analysis	7470A		1	384394	05/09/17 10:15	MJD	TAL CHI
Total/NA	Analysis	1010		1	384856		ADK	TAL CHI
					(Start)	05/11/17 20:00		
					(End)	05/11/17 21:50		
Total/NA	Prep	9010B			384580	05/10/17 12:50	MAN	TAL CHI
Total/NA	Analysis	9014		1	384641		MAN	TAL CHI
					(Start)	05/10/17 15:37		
					(End)	05/10/17 15:37		
Total/NA	Prep	9030B			385245	05/15/17 17:36	JBj	TAL CHI
Total/NA	Analysis	9034		1	385402	05/15/17 21:51	JBj	TAL CHI
Total/NA	Analysis	9045C		1	384553		SMO	TAL CHI
					(Start)	05/09/17 16:06		
					(End)	05/09/17 16:08		
Total/NA	Analysis	9095A		1	384855		ADK	TAL CHI
					(Start)	05/11/17 22:43		
					(End)	05/11/17 22:45		
Total/NA	Analysis	Moisture		1	383751	05/04/17 12:11	LWN	TAL CHI
Total/NA	Analysis	SM 2710F		1	385047		ADK	TAL CHI
					(Start)	05/12/17 22:15		
					(End)	05/12/17 22:19		

Client Sample ID: GP-11 (6-8)

Lab Sample ID: 500-127505-25

Date Collected: 05/01/17 15:05

Matrix: Solid

Date Received: 05/03/17 09:00

Percent Solids: 89.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	WI GRO			427841	05/05/17 15:52	CU	TAL NSH
Total/NA	Analysis	WDNR		1	428725	05/10/17 07:37	FKG	TAL NSH
Total/NA	Prep	3541			384456	05/09/17 16:38	JP1	TAL CHI
Total/NA	Analysis	8082A		1	384545	05/10/17 14:06	BJH	TAL CHI
Total/NA	Prep	WI DRO PREP			383737	05/04/17 11:15	LMC	TAL CHI
Total/NA	Analysis	WI-DRO		1	383957	05/05/17 16:49	SAW	TAL CHI
Total/NA	Prep	3050B			383993	05/05/17 15:07	JNH	TAL CHI
Total/NA	Analysis	6010B		1	384865	05/11/17 22:53	PJ1	TAL CHI

TestAmerica Chicago

Lab Chronicle

Client: TRC Environmental Corporation.
Project/Site: STH 11 Kentucky to Kearney - 275788

TestAmerica Job ID: 500-127505-1

Client Sample ID: Trip Blank

Lab Sample ID: 500-127505-26

Date Collected: 05/01/17 00:00

Matrix: Solid

Date Received: 05/03/17 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	383751	05/04/17 12:11	LWN	TAL CHI

Client Sample ID: Trip Blank

Lab Sample ID: 500-127505-26

Date Collected: 05/01/17 00:00

Matrix: Solid

Date Received: 05/03/17 09:00

Percent Solids: 100.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			384046	05/01/17 00:00	WRE	TAL CHI
Total/NA	Analysis	8260B		50	385134	05/15/17 15:55	TCT	TAL CHI

Laboratory References:

SFAL = SF Analytical Laboratories, 2345 South 170th Street, New Berlin, WI 53151

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

TAL NSH = TestAmerica Nashville, 2960 Foster Creighton Drive, Nashville, TN 37204, TEL (615)726-0177

Accreditation/Certification Summary

Client: TRC Environmental Corporation.
Project/Site: STH 11 Kentucky to Kearney - 275788

TestAmerica Job ID: 500-127505-1

Laboratory: TestAmerica Chicago

The accreditations/certifications listed below are applicable to this report.

Authority	Program	EPA Region	Identification Number	Expiration Date
Wisconsin	State Program	5	999580010	08-31-17

Laboratory: TestAmerica Nashville

The accreditations/certifications listed below are applicable to this report.

Authority	Program	EPA Region	Identification Number	Expiration Date
Wisconsin	State Program	5	998020430	08-31-17

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15
- 16

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: _____
 Address: _____
 Phone: _____
 Fax: _____
 E-Mail: _____

Bill To _____ (optional)
 Contact: _____
 Company: _____
 Address: _____
 Address: _____
 Phone: _____
 Fax: _____
 PO#/Reference# _____

Chain of Custody Record

Lab Job #: 500-127505
 Chain of Custody Number: _____
 Page 1 of 3
 Temperature °C of Cooler: (3.9)/(3.3)

Client		Client Project #		Preservative		Parameter		Comments	
TRC		B501 275780		1	1	8		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		Lab Project #		# of Containers		Matrix			
STH 11 Kentucky to Kearney				PbCs + Nap		VOLs		Lead	
Project Location/State		Lab PM		Date		Time			
Paline, WI									
Sampler		Sample ID		Date		Time			
M. Kehring									
Lab ID	MS/MSD	Sample ID	Date	Time	# of Containers	Matrix			
1		GP-01 (0-2)	5/1	835	2	S	X		
2		GP-01 (6-8)		845	2		X		
3		GP-02 (2-4)		915	2		X		
4		GP-02 (6-8)		925	2		X		
5		GP-02 (14-16)		930	2		X		
6		GP-03 (2-4)		1010	3		X	X	
7		GP-03 (6-8)		1015	3		X	X	
8		GP-04 (2-4)		1035	3		X	X	
9		GP-04 (6-8)		1040	3		X	X	
10		GP-05 (2-4)		1100	3		X	X	

Turnaround Time Required (Business Days)

___ 1 Day ___ 2 Days ___ 5 Days ___ 7 Days 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	Company TRC	Date 5/1/17	Time 1630	Received By	Company TA	Date 05/03/17	Time 0900	Lab Courier
Relinquished By	Company	Date	Time	Received By	Company	Date	Time	Shipped
Relinquished By	Company	Date	Time	Received By	Company	Date	Time	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:

 500-127505 COC

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: _____
 Address: _____
 Phone: _____
 Fax: _____
 E-Mail: _____

Bill To (optional)
 Contact: _____
 Company: _____
 Address: _____
 Address: _____
 Phone: _____
 Fax: _____
 PO#/Reference# _____

Chain of Custody Record

Lab Job #: 500-127505
 Chain of Custody Number: _____
 Page 2 of 3
 Temperature °C of Cooler: _____

Client		Client Project #		Preservative		Parameter		Matrix		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		Lab Project #		Parameter		Matrix		Comments		
Project Location/State		Lab PM		Parameter		Matrix				
Lab ID	MS/MSD	Sample ID	Date	Time	# of Containers	Matrix	Parameter	Matrix	Comments	
11		GP-05 (6-8)	5/01	1110	4	S	PYOCs + Nap	X		
12		GP-05 (14-16)		1120	3		NOCS	X		
13		GP-06 (2-4)		1200	2			X		
14		GP-06 (6-8)		1205	2			X		
15		GP-07 (2-4)		1230	2			X		
16		GP-07 (6-8)		1235	4			X		
17		GP-07 (14-16)		1250	2			X		
18		GP-08 (2-4)		1345	3			X		
19		GP-08 (6-8)		1350	3			X		
20		GP-09 (2-4)		1420	3			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>5/01/17</u>	Time <u>1630</u>	Received By <u>[Signature]</u>	Company <u>TA</u>	Date <u>05/03/17</u>	Time <u>0900</u>
Relinquished By	Company	Date	Time	Received By	Company	Date	Time
Relinquished By	Company	Date	Time	Received By	Company	Date	Time

Lab Courier _____
 Shipped _____
 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: _____
Address: _____
Address: _____
Phone: _____
Fax: _____
E-Mail: _____

Bill To (optional)
Contact: _____
Company: _____
Address: _____
Address: _____
Phone: _____
Fax: _____
PO#/Reference# _____

Chain of Custody Record

Lab Job #: 500-127505
Chain of Custody Number: _____
Page 3 of 3
Temperature °C of Cooler: _____

Client		Client Project #		Preservative		Parameter		Sample Disposal		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	
TRC		27-5788		1	8	1	8	8	1		
Project Name STH 11 - Keokuk to Kentucky		Lab Project #		Parameter		Sample Disposal		Comments			
Project Location/State Rouine, WI		Lab PM		# of Containers		Matrix					
Sampler M. Kavirias											
Lab ID	MS/MSD	Sample ID	Date	Time	# of Containers	Matrix	1	8	8	1	
21		GP-09 (6-8)	5/01	1425	3	S	X	X			
22		GP-10 (2-4)		1435	↓	↓	X	X			
23		GP-10 (6-8)		1440	↓	↓	X	X			
24		GP-11 (2-4)		1500	↓	↓	X	X			
25		GP-11 (6-8)		1505	↓	↓	X	X	X	X	
26		TRIP BLANK			2	-				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 <i>MK</i>	Company TRC	Date 5/01/17	Time 1630	Received By <i>Smk</i>	Company TA	Date 05/03/17	Time 0900
Relinquished By	Company	Date	Time	Received By	Company	Date	Time
Relinquished By	Company	Date	Time	Received By	Company	Date	Time

Lab Courier: _____
Shipped: _____
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:

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15
- 16

ORIGIN ID: RRLA (262) 901-2153
 MIRANDA KARRILAS
 TRC ENVIRONMENTAL
 150 N PATRICK BL VD, SUITE 180
 BROOKFIELD, WI 53045
 UNITED STATES US

SHIP DATE: 01MAY17
 ACTWGT: 25.00 LB
 CND: 110326#82ZINET3850

BILL RECIPIENT

TO ATTN: SAMPLE RECEIVING
 TEST AMERICA - CHICAGO
 2417 BOND ST

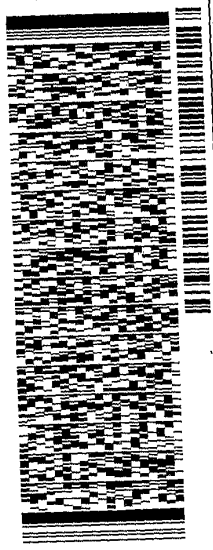


546J1.6734/53C1

UNIVERSITY PARK IL 60484

REF: (708) 534-5200
 NV/ PO DEPT

500-127505 Waybill



J171117021401uv

1 of 2

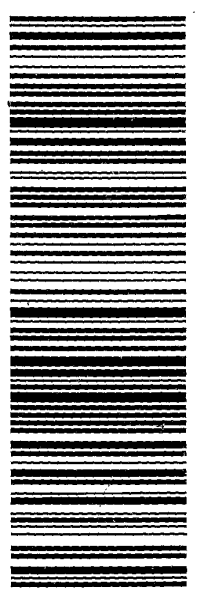
TUE - 02 MAY 10:30A
 PRIORITY OVERNIGHT

FedEx
 TRK# 7790 3027 5856
 0201

TUE - 02 MAY 10:30A
 PRIORITY OVERNIGHT

79 JOTA

60484
 IL-US
 ORD



FTD 76300 02MAY17 MKER 546C1/6734/8C3A

ORIGIN ID: RRLA (262) 901-2153
 MIRANDA KARRILAS
 TRC ENVIRONMENTAL
 150 N PATRICK BL VD, SUITE 180
 BROOKFIELD, WI 53045
 UNITED STATES US

SHIP DATE: 01MAY17
 ACTWGT: 25.00 LB
 CND: 110326#82ZINET3850

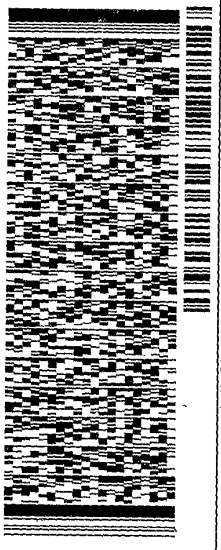
BILL RECIPIENT

TO ATTN: SAMPLE RECEIVING
 TEST AMERICA - CHICAGO
 2417 BOND ST

UNIVERSITY PARK IL 60484

REF: (708) 534-5200
 NV/ PO DEPT

546J1.6734/53C1



J171117021401uv

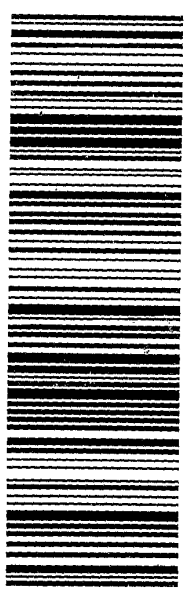
2 of 2

TUE - 02 MAY 10:30A
 PRIORITY OVERNIGHT

MP# 7790 3027 6782
 0263
 WSt# 7790 3027 5856
 0201

79 JOTA

60484
 IL-US
 ORD



COOLER RECEIPT FORM



500-127505-01 Chain of Custody

Cooler Received/Opened On 5/4/2017 @ 0945

Time Samples Removed From Cooler 13:50 Time Samples Placed In Storage _____ (2 Hour Window)

1. Tracking # 3984 (last 4 digits, FedEx) Courier: FedEx

IR Gun ID 160656843 pH Strip Lot _____ Chlorine Strip Lot _____

2. Temperature of rep. sample or temp blank when opened: 27 Degrees Celsius

3. If Item #2 temperature is 0°C or less, was the representative sample or temp blank frozen? YES NO NA

4. Were custody seals on outside of cooler? YES...NO...NA

If yes, how many and where: 2 front / back

5. Were the seals intact, signed, and dated correctly? YES...NO...NA

6. Were custody papers inside cooler? YES...NO...NA

I certify that I opened the cooler and answered questions 1-6 (initial) HFG

7. Were custody seals on containers: YES NO and Intact YES...NO...NA

Were these signed and dated correctly? YES...NO...NA

8. Packing mat'l used? Bubblewrap Plastic bag Peanuts Vermiculite Foam Insert Paper Other None

9. Cooling process: Ice Ice-pack Ice (direct contact) Dry ice Other None

10. Did all containers arrive in good condition (unbroken)? YES...NO...NA

11. Were all container labels complete (#, date, signed, pres., etc)? YES...NO...NA

12. Did all container labels and tags agree with custody papers? YES...NO...NA

13a. Were VOA vials received? YES...NO...NA

b. Was there any observable headspace present in any VOA vial? YES...NO...NA

14. Was there a Trip Blank in this cooler? YES...NO...NA If multiple coolers, sequence # _____

I certify that I unloaded the cooler and answered questions 7-14 (initial) [Signature]

15a. On pres'd bottles, did pH test strips suggest preservation reached the correct pH level? YES...NO...NA

b. Did the bottle labels indicate that the correct preservatives were used YES...NO...NA

16. Was residual chlorine present? YES...NO...NA

I certify that I checked for chlorine and pH as per SOP and answered questions 15-16 (initial) [Signature]

17. Were custody papers properly filled out (ink, signed, etc)? YES...NO...NA

18. Did you sign the custody papers in the appropriate place? YES...NO...NA

19. Were correct containers used for the analysis requested? YES...NO...NA

20. Was sufficient amount of sample sent in each container? YES...NO...NA

I certify that I entered this project into LIMS and answered questions 17-20 (initial) [Signature]

I certify that I attached a label with the unique LIMS number to each container (initial) [Signature]

21. Were there Non-Conformance issues at login? YES...NO Was a NCM generated? YES...NO...# _____

TestAmerica Chicago

2417 Bond Street
University Park, IL 60494
Phone (708) 534-5200 Fax (708) 534-5211

Chain of Custody Record

Loc: 500
127505



THE LEADER IN ENVIRONMENTAL TESTING

Client Information (Sub Contract Lab)

Company: TestAmerica Laboratories, Inc
Address: 2960 Foster Creighton Drive,
City: Nashville
State, Zip: TN, 37204
Phone: 615-726-0177(Tel) 615-726-3404(Fax)
Email: STH 11 Kentucky to Kearney - 275788

Client Contact: Fredrick, Sandie J
Shipping/Receiving: sandie.fredrick@testamericainc.com

Phone: State Program - Wisconsin
Accreditations Required (See note):

Wisconsin

COC No: 500-86708-1

Page: Page 1 of 2

Due Date Requested: 5/14/2017
TAT Requested (days):

Analysis Requested

Job #: 500-127505-1

Preservation Codes:

- A - HCL
- B - NaOH
- C - Zn Acetate
- D - Nitric Acid
- E - NaHSO4
- F - MeOH
- G - Anchlor
- H - Ascorbic Acid
- I - Ice
- J - DI Water
- K - EDTA
- L - EDA
- M - Hexane
- N - None
- O - ASH602
- P - Na2OAS
- Q - Na2SO3
- R - Na2S2O3
- S - H2SO4
- T - TSP Dodecahydrate
- U - Acetone
- V - MCAA
- W - PH 4-5
- Z - other (specify)

Sample Identification - Client ID (Lab ID)

Sample ID	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix (Mineral, Synthetic, Organics, etc.)	Preservation Code:	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	Moisture/ Percent Moisture/Solids	WI_GRO/WIGRO_P_FM PVOC+NAP	Total Number of containers	Special Instructions/Note:
GP-01 (0-2) (500-127505-1)	5/1/17	08:35	Central	Solid		X	X	X		2	
GP-01 (6-8) (500-127505-2)	5/1/17	08:45	Central	Solid		X	X	X		2	
GP-02 (2-4) (500-127505-3)	5/1/17	09:15	Central	Solid		X	X	X		2	
GP-02 (6-8) (500-127505-4)	5/1/17	09:25	Central	Solid		X	X	X		2	
GP-02 (14-16) (500-127505-5)	5/1/17	09:30	Central	Solid		X	X	X		2	
GP-06 (2-4) (500-127505-13)	5/1/17	12:00	Central	Solid		X	X	X		2	
GP-06 (6-8) (500-127505-14)	5/1/17	12:05	Central	Solid		X	X	X		2	
GP-07 (2-4) (500-127505-15)	5/1/17	12:30	Central	Solid		X	X	X		2	
GP-07 (6-8) (500-127505-16)	5/1/17	12:35	Central	Solid		X	X	X		1	

Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyze & accreditation compliance upon our subcontracted laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analytes/matrix being analyzed, the samples must be shipped back to the TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to TestAmerica Laboratories, Inc. attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to TestAmerica Laboratories, Inc.

Possible Hazard Identification

Unconfirmed
Deliverable Requested: I, II, III, IV, Other (specify)
Primary Deliverable Rank: 2

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
 Return To Client Disposal By Lab Archive For _____ Months

Empty Kit Relinquished by: _____ Date: _____ Time: _____ Method of Shipment: _____

Relinquished by: *Sandy* Date/Time: 05/13/17 1600 Company: TA Received by: _____ Date/Time: _____ Company: _____

Relinquished by: _____ Date/Time: _____ Company: _____ Received by: _____ Date/Time: _____ Company: _____

Relinquished by: _____ Date/Time: _____ Company: _____ Received by: _____ Date/Time: 5.4.17 0945 Company: T&A

Custody Seals Intact: Yes No Custody Seal No.: _____ Cooler Temperature(s) °C and Other Remarks: 2.7

COOLER RECEIPT FORM



Cooler Received/Opened On 5/4/2017 @ 0945
Time Samples Removed From Cooler 13:50 Time Samples Placed In Storage _____ (2 Hour Window)

1. Tracking # 3984 (last 4 digits, FedEx) Courier: FedEx

IR Gun ID 160656843 pH Strip Lot _____ Chlorine Strip Lot _____

2. Temperature of rep. sample or temp blank when opened: 27 Degrees Celsius

3. If Item #2 temperature is 0°C or less, was the representative sample or temp blank frozen? YES NO NA

4. Were custody seals on outside of cooler? YES...NO...NA

If yes, how many and where: 2 front/back

5. Were the seals intact, signed, and dated correctly? YES...NO...NA

6. Were custody papers inside cooler? YES...NO...NA

I certify that I opened the cooler and answered questions 1-6 (initial) HSG

7. Were custody seals on containers: YES NO and Intact YES...NO... NA

Were these signed and dated correctly? YES...NO... NA

8. Packing mat'l used? Bubblewrap Plastic bag Peanuts Vermiculite Foam Insert Paper Other None

9. Cooling process: Ice Ice-pack Ice (direct contact) Dry ice Other None

10. Did all containers arrive in good condition (unbroken)? YES...NO...NA

11. Were all container labels complete (#, date, signed, pres., etc)? YES...NO...NA

12. Did all container labels and tags agree with custody papers? YES...NO...NA

13a. Were VOA vials received? YES...NO...NA

b. Was there any observable headspace present in any VOA vial? YES...NO... NA

14. Was there a Trip Blank in this cooler? YES... NO...NA If multiple coolers, sequence # B

I certify that I unloaded the cooler and answered questions 7-14 (initial) B

15a. On pres'd bottles, did pH test strips suggest preservation reached the correct pH level? YES...NO... NA

b. Did the bottle labels indicate that the correct preservatives were used YES...NO...NA

16. Was residual chlorine present? YES...NO... NA

I certify that I checked for chlorine and pH as per SOP and answered questions 15-16 (initial) [Signature]

17. Were custody papers properly filled out (ink, signed, etc)? YES...NO...NA

18. Did you sign the custody papers in the appropriate place? YES...NO...NA

19. Were correct containers used for the analysis requested? YES...NO...NA

20. Was sufficient amount of sample sent in each container? YES...NO...NA

I certify that I entered this project into LIMS and answered questions 17-20 (initial) [Signature]

I certify that I attached a label with the unique LIMS number to each container (initial) [Signature]

21. Were there Non-Conformance issues at login? YES...NO Was a NCM generated? YES... NO # _____

Login Sample Receipt Checklist

Client: TRC Environmental Corporation.

Job Number: 500-127505-1

Login Number: 127505

List Source: TestAmerica Chicago

List Number: 1

Creator: Kelsey, Shawn M

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	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	(3.9)(3.3)c
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 (excluding tests with immediate HTs)	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").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



Login Sample Receipt Checklist

Client: TRC Environmental Corporation.

Job Number: 500-127505-1

Login Number: 127505

List Number: 2

Creator: Shaw, Rashard M

List Source: TestAmerica Nashville

List Creation: 05/04/17 02:16 PM

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	N/A	
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	
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 (excluding tests with immediate HTs)	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.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



Login Sample Receipt Checklist

Client: TRC Environmental Corporation.

Job Number: 500-127505-1

Login Number: 127505

List Number: 3

Creator: Shaw, Rashard M

List Source: TestAmerica Nashville

List Creation: 05/04/17 02:20 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
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	
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 (excluding tests with immediate HTs)	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.	N/A	
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	



TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Chicago
2417 Bond Street
University Park, IL 60484
Tel: (708)534-5200

TestAmerica Job ID: 500-127508-1

Client Project/Site: STH 11 Kentucky to Kearney - 275788

For:
TRC Environmental Corporation.
150 N. Patrick Blvd.
Suite 180
Brookfield, Wisconsin 53045

Attn: Mr. Bryan Bergmann



Authorized for release by:
5/17/2017 4:26:59 PM

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.

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15
- 16



Table of Contents

Cover Page	1
Table of Contents	2
Case Narrative	3
Detection Summary	4
Method Summary	8
Sample Summary	9
Client Sample Results	10
Subcontract Data	35
Definitions	36
QC Association	37
Surrogate Summary	45
QC Sample Results	48
Chronicle	62
Certification Summary	75
Chain of Custody	76
Receipt Checklists	87

Case Narrative

Client: TRC Environmental Corporation.
Project/Site: STH 11 Kentucky to Kearney - 275788

TestAmerica Job ID: 500-127508-1

Job ID: 500-127508-1

Laboratory: TestAmerica Chicago

Narrative

Job Narrative 500-127508-1

Comments

No additional comments.

Receipt

The samples were received on 5/3/2017 9:00 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 2 coolers at receipt time were 4.2° C and 5.4° C.

GC/MS VOA

Method(s) 8260B: The laboratory control sample (LCS) for the soil preparation batch 384046 recovered outside control limits for 12 analytes. These analytes were biased high in the preparation batch LCS, but were within limits in the analytical batch LCS; therefore, the data has been reported.

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

GC/MS Semi VOA

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

GC VOA

Method(s) WI-GRO: The continuing calibration verification (CCV) associated with batch 490-428992 recovered above the upper control limit for Naphthalene. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The following sample is impacted: (CCV 490-428992/15).

Method(s) WI-GRO: Surrogate recovery for the following sample was outside control limits: GP-21 (6-8) (500-127508-21). 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.

GC Semi VOA

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

Metals

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

General Chemistry

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

Subcontract non-Sister

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

Organic Prep

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

VOA Prep

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

Subcontract Work

Method % Chlorine: This method was subcontracted to SF Analytical Laboratories. The subcontract laboratory certification is different from that of the facility issuing the final report.

Detection Summary

Client: TRC Environmental Corporation.
Project/Site: STH 11 Kentucky to Kearney - 275788

TestAmerica Job ID: 500-127508-1

Client Sample ID: GP-12 (2-4)

Lab Sample ID: 500-127508-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	19	F1	0.52	0.24	mg/Kg	1	☒	6010B	Total/NA

Client Sample ID: GP-12 (6-8)

Lab Sample ID: 500-127508-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,2,4-Trimethylbenzene	36		31	18	ug/Kg	1	☒	WDNR	Total/NA
Lead	9.7		0.57	0.26	mg/Kg	1	☒	6010B	Total/NA

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

Lab Sample ID: 500-127508-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	16		0.58	0.27	mg/Kg	1	☒	6010B	Total/NA

Client Sample ID: GP-13 (6-8)

Lab Sample ID: 500-127508-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	11		0.52	0.24	mg/Kg	1	☒	6010B	Total/NA

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

Lab Sample ID: 500-127508-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	51		18	11	ug/Kg	50	☒	8260B	Total/NA
Lead	15		0.58	0.27	mg/Kg	1	☒	6010B	Total/NA

Client Sample ID: GP-14 (6-8)

Lab Sample ID: 500-127508-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	16		0.65	0.30	mg/Kg	1	☒	6010B	Total/NA

Client Sample ID: GP-15 (2-4)

Lab Sample ID: 500-127508-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	7.8		0.49	0.23	mg/Kg	1	☒	6010B	Total/NA

Client Sample ID: GP-15 (6-8)

Lab Sample ID: 500-127508-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	7.5		0.51	0.23	mg/Kg	1	☒	6010B	Total/NA

Client Sample ID: GP-16 (2-4)

Lab Sample ID: 500-127508-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,2,4-Trimethylbenzene	22	J	30	18	ug/Kg	1	☒	WDNR	Total/NA
Lead	16		0.56	0.26	mg/Kg	1	☒	6010B	Total/NA

Client Sample ID: GP-16 (6-8)

Lab Sample ID: 500-127508-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	8.5		0.56	0.26	mg/Kg	1	☒	6010B	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: TRC Environmental Corporation.
Project/Site: STH 11 Kentucky to Kearney - 275788

TestAmerica Job ID: 500-127508-1

Client Sample ID: GP-17 (2-4)

Lab Sample ID: 500-127508-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	7.1		0.51	0.24	mg/Kg	1	☒	6010B	Total/NA

Client Sample ID: GP-17 (6-8)

Lab Sample ID: 500-127508-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	9.6		0.57	0.27	mg/Kg	1	☒	6010B	Total/NA

Client Sample ID: GP-18 (2-4)

Lab Sample ID: 500-127508-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	10		0.48	0.22	mg/Kg	1	☒	6010B	Total/NA

Client Sample ID: GP-18 (6-8)

Lab Sample ID: 500-127508-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	7.3		0.51	0.24	mg/Kg	1	☒	6010B	Total/NA

Client Sample ID: GP-19 (2-4)

Lab Sample ID: 500-127508-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	23		0.45	0.21	mg/Kg	1	☒	6010B	Total/NA

Client Sample ID: GP-19 (6-8)

Lab Sample ID: 500-127508-16

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	11		0.58	0.27	mg/Kg	1	☒	6010B	Total/NA

Client Sample ID: GP-20 (2-4)

Lab Sample ID: 500-127508-17

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,2,4-Trimethylbenzene	16	J	27	16	ug/Kg	1	☒	WDNR	Total/NA

Client Sample ID: GP-20 (6-8)

Lab Sample ID: 500-127508-18

No Detections.

Client Sample ID: GP-20 (14-16)

Lab Sample ID: 500-127508-19

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	79		30	21	ug/Kg	1	☒	WDNR	Total/NA
Naphthalene	440		300	140	ug/Kg	1	☒	WDNR	Total/NA
1,3,5-Trimethylbenzene	25	J	30	18	ug/Kg	1	☒	WDNR	Total/NA
Xylenes, Total	36	J	89	36	ug/Kg	1	☒	WDNR	Total/NA

Client Sample ID: GP-21 (2-4)

Lab Sample ID: 500-127508-20

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	94		31	22	ug/Kg	1	☒	WDNR	Total/NA
Ethylbenzene	35		31	24	ug/Kg	1	☒	WDNR	Total/NA
Methyl tert-butyl ether	160		31	15	ug/Kg	1	☒	WDNR	Total/NA
Naphthalene	510		310	150	ug/Kg	1	☒	WDNR	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: TRC Environmental Corporation.
Project/Site: STH 11 Kentucky to Kearney - 275788

TestAmerica Job ID: 500-127508-1

Client Sample ID: GP-21 (2-4) (Continued)

Lab Sample ID: 500-127508-20

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Toluene	25	J	31	21	ug/Kg	1	☒	WDNR	Total/NA
1,2,4-Trimethylbenzene	62		31	19	ug/Kg	1	☒	WDNR	Total/NA
Xylenes, Total	61	J	94	37	ug/Kg	1	☒	WDNR	Total/NA

Client Sample ID: GP-21 (6-8)

Lab Sample ID: 500-127508-21

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,2,4-Trimethylbenzene	2600		31	19	ug/Kg	1	☒	WDNR	Total/NA
1,3,5-Trimethylbenzene	1000		31	19	ug/Kg	1	☒	WDNR	Total/NA
Benzene	610		31	23	ug/Kg	1	☒	WDNR	Total/NA
Ethylbenzene	7200		31	24	ug/Kg	1	☒	WDNR	Total/NA
Methyl tert-butyl ether	17	J	31	15	ug/Kg	1	☒	WDNR	Total/NA
Naphthalene	55000		6300	3000	ug/Kg	20	☒	WDNR	Total/NA
Toluene	590		31	21	ug/Kg	1	☒	WDNR	Total/NA
Xylenes, Total	2500		94	38	ug/Kg	1	☒	WDNR	Total/NA
Wisconsin GRO	2000000		130000	63000	ug/Kg	20	☒	WDNR	Total/NA

Client Sample ID: GP-22 (2-4)

Lab Sample ID: 500-127508-22

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,2,4-Trimethylbenzene	91		33	20	ug/Kg	1	☒	WDNR	Total/NA
Lead	44		0.50	0.23	mg/Kg	1	☒	6010B	Total/NA

Client Sample ID: GP-22 (6-8)

Lab Sample ID: 500-127508-23

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	9.4		0.48	0.22	mg/Kg	1	☒	6010B	Total/NA

Client Sample ID: GP-23 (2-4)

Lab Sample ID: 500-127508-24

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	8.9		0.51	0.23	mg/Kg	1	☒	6010B	Total/NA

Client Sample ID: GP-23 (6-8)

Lab Sample ID: 500-127508-25

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Naphthalene	170	J	290	140	ug/Kg	1	☒	WDNR	Total/NA
Lead	7.7		0.50	0.23	mg/Kg	1	☒	6010B	Total/NA
Barium	0.44	J	0.50	0.050	mg/L	1		6010B	TCLP
Nickel	0.022	J	0.025	0.010	mg/L	1		6010B	TCLP
Flashpoint	>176		40.0	40.0	Degrees F	1		1010	Total/NA
Cyanide, Total	0.28	J	0.41	0.14	mg/Kg	1		9014	Total/NA
pH	9.0		0.2	0.2	SU	1		9045C	Total/NA
Paint Filter	PASS				No Unit	1		9095A	Total/NA
Specific Gravity	2.2442				NONE	1		SM 2710F	Total/NA

Client Sample ID: GP-24 (2-4)

Lab Sample ID: 500-127508-26

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	27	V F1	0.54	0.25	mg/Kg	1	☒	6010B	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: TRC Environmental Corporation.
 Project/Site: STH 11 Kentucky to Kearney - 275788

TestAmerica Job ID: 500-127508-1

Client Sample ID: GP-24 (6-8)

Lab Sample ID: 500-127508-27

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	11		0.53	0.25	mg/Kg	1	☼	6010B	Total/NA

Client Sample ID: GP-25 (2-4)

Lab Sample ID: 500-127508-28

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	15		0.52	0.24	mg/Kg	1	☼	6010B	Total/NA

Client Sample ID: GP-25 (6-8)

Lab Sample ID: 500-127508-29

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Isopropylbenzene	120		72	28	ug/Kg	50	☼	8260B	Total/NA
Naphthalene	150	*	72	24	ug/Kg	50	☼	8260B	Total/NA
N-Propylbenzene	620		72	30	ug/Kg	50	☼	8260B	Total/NA
WI Gasoline Range Organics (C5-C10)	350000		43000	14000	ug/Kg	1000	☼	WI-GRO	Total/NA
WI Diesel Range Organics (C10-C28)	22		7.0	2.8	mg/Kg	1	☼	WI-DRO	Total/NA
Lead	26		0.55	0.26	mg/Kg	1	☼	6010B	Total/NA

Client Sample ID: Trip Blank

Lab Sample ID: 500-127508-30

No Detections.

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Method Summary

Client: TRC Environmental Corporation.
Project/Site: STH 11 Kentucky to Kearney - 275788

TestAmerica Job ID: 500-127508-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL CHI
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	TAL CHI
WDNR	Wisconsin - Gasoline Range Organics (GC)	WI-GRO	TAL NSH
WI-GRO	Wisconsin - Gasoline Range Organics (GC)	WI-GRO	TAL CHI
8082A	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	TAL CHI
WI-DRO	Wisconsin - Diesel Range Organics (GC)	WI-DRO	TAL CHI
6010B	Metals (ICP)	SW846	TAL CHI
7470A	Mercury (CVAA)	SW846	TAL CHI
1010	Ignitability, Pensky-Martens Closed-Cup Method	SW846	TAL CHI
9014	Cyanide	SW846	TAL CHI
9034	Sulfide, Acid soluble and Insoluble (Titrimetric)	SW846	TAL CHI
9045C	pH	SW846	TAL CHI
9095A	Paint Filter	SW846	TAL CHI
Moisture	Percent Moisture	EPA	TAL NSH
Moisture	Percent Moisture	EPA	TAL CHI
SM 2710F	Specific Gravity, Density	SM	TAL CHI
% Chlorine	General Sub Contract Method	NONE	SFAL

Protocol References:

EPA = US Environmental Protection Agency

NONE = NONE

SM = "Standard Methods For The Examination Of Water And Wastewater",

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

WI-DRO = "Modified DRO: Method For Determining Diesel Range Organics", Wisconsin DNR, Publ-SW-141, September, 1995.

WI-GRO = "Modified GRO: Method For Determining Gasoline Range Organics", Wisconsin DNR, Publ-SW-140, September, 1995.

Laboratory References:

SFAL = SF Analytical Laboratories, 2345 South 170th Street, New Berlin, WI 53151

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

TAL NSH = TestAmerica Nashville, 2960 Foster Creighton Drive, Nashville, TN 37204, TEL (615)726-0177

Sample Summary

Client: TRC Environmental Corporation.
Project/Site: STH 11 Kentucky to Kearney - 275788

TestAmerica Job ID: 500-127508-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-127508-1	GP-12 (2-4)	Solid	05/02/17 08:25	05/03/17 09:00
500-127508-2	GP-12 (6-8)	Solid	05/02/17 08:30	05/03/17 09:00
500-127508-3	GP-13 (2-4)	Solid	05/02/17 09:15	05/03/17 09:00
500-127508-4	GP-13 (6-8)	Solid	05/02/17 09:20	05/03/17 09:00
500-127508-5	GP-14 (2-4)	Solid	05/02/17 09:30	05/03/17 09:00
500-127508-6	GP-14 (6-8)	Solid	05/02/17 09:35	05/03/17 09:00
500-127508-7	GP-15 (2-4)	Solid	05/02/17 09:55	05/03/17 09:00
500-127508-8	GP-15 (6-8)	Solid	05/02/17 10:00	05/03/17 09:00
500-127508-9	GP-16 (2-4)	Solid	05/02/17 10:30	05/03/17 09:00
500-127508-10	GP-16 (6-8)	Solid	05/02/17 10:35	05/03/17 09:00
500-127508-11	GP-17 (2-4)	Solid	05/02/17 10:50	05/03/17 09:00
500-127508-12	GP-17 (6-8)	Solid	05/02/17 10:55	05/03/17 09:00
500-127508-13	GP-18 (2-4)	Solid	05/02/17 11:25	05/03/17 09:00
500-127508-14	GP-18 (6-8)	Solid	05/02/17 11:30	05/03/17 09:00
500-127508-15	GP-19 (2-4)	Solid	05/02/17 11:50	05/03/17 09:00
500-127508-16	GP-19 (6-8)	Solid	05/02/17 11:55	05/03/17 09:00
500-127508-17	GP-20 (2-4)	Solid	05/02/17 12:20	05/03/17 09:00
500-127508-18	GP-20 (6-8)	Solid	05/02/17 12:25	05/03/17 09:00
500-127508-19	GP-20 (14-16)	Solid	05/02/17 12:30	05/03/17 09:00
500-127508-20	GP-21 (2-4)	Solid	05/02/17 12:50	05/03/17 09:00
500-127508-21	GP-21 (6-8)	Solid	05/02/17 12:55	05/03/17 09:00
500-127508-22	GP-22 (2-4)	Solid	05/02/17 13:35	05/03/17 09:00
500-127508-23	GP-22 (6-8)	Solid	05/02/17 13:40	05/03/17 09:00
500-127508-24	GP-23 (2-4)	Solid	05/02/17 13:50	05/03/17 09:00
500-127508-25	GP-23 (6-8)	Solid	05/02/17 13:05	05/03/17 09:00
500-127508-26	GP-24 (2-4)	Solid	05/02/17 14:15	05/03/17 09:00
500-127508-27	GP-24 (6-8)	Solid	05/02/17 14:20	05/03/17 09:00
500-127508-28	GP-25 (2-4)	Solid	05/02/17 14:35	05/03/17 09:00
500-127508-29	GP-25 (6-8)	Solid	05/02/17 14:40	05/03/17 09:00
500-127508-30	Trip Blank	Solid	05/02/17 00:00	05/03/17 09:00

Client Sample Results

Client: TRC Environmental Corporation.
Project/Site: STH 11 Kentucky to Kearney - 275788

TestAmerica Job ID: 500-127508-1

Client Sample ID: GP-12 (2-4)

Date Collected: 05/02/17 08:25

Date Received: 05/03/17 09:00

Lab Sample ID: 500-127508-1

Matrix: Solid

Percent Solids: 86.4

Method: WDNR - Wisconsin - Gasoline Range Organics (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<21		29	21	ug/Kg	☼	05/05/17 15:52	05/10/17 17:34	1
Ethylbenzene	<22		29	22	ug/Kg	☼	05/05/17 15:52	05/10/17 17:34	1
Methyl tert-butyl ether	<14		29	14	ug/Kg	☼	05/05/17 15:52	05/10/17 17:34	1
Naphthalene	<140		290	140	ug/Kg	☼	05/05/17 15:52	05/10/17 17:34	1
Toluene	<20		29	20	ug/Kg	☼	05/05/17 15:52	05/10/17 17:34	1
1,2,4-Trimethylbenzene	<18		29	18	ug/Kg	☼	05/05/17 15:52	05/10/17 17:34	1
1,3,5-Trimethylbenzene	<18		29	18	ug/Kg	☼	05/05/17 15:52	05/10/17 17:34	1
Xylenes, Total	<35		88	35	ug/Kg	☼	05/05/17 15:52	05/10/17 17:34	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>a,a,a-Trifluorotoluene</i>	91		80 - 120	05/05/17 15:52	05/10/17 17:34	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	19	F1	0.52	0.24	mg/Kg	☼	05/06/17 11:05	05/11/17 03:14	1

Client Sample ID: GP-12 (6-8)

Date Collected: 05/02/17 08:30

Date Received: 05/03/17 09:00

Lab Sample ID: 500-127508-2

Matrix: Solid

Percent Solids: 83.8

Method: WDNR - Wisconsin - Gasoline Range Organics (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<22		31	22	ug/Kg	☼	05/05/17 15:52	05/10/17 18:01	1
Ethylbenzene	<23		31	23	ug/Kg	☼	05/05/17 15:52	05/10/17 18:01	1
Methyl tert-butyl ether	<15		31	15	ug/Kg	☼	05/05/17 15:52	05/10/17 18:01	1
Naphthalene	<150		310	150	ug/Kg	☼	05/05/17 15:52	05/10/17 18:01	1
Toluene	<21		31	21	ug/Kg	☼	05/05/17 15:52	05/10/17 18:01	1
1,2,4-Trimethylbenzene	36		31	18	ug/Kg	☼	05/05/17 15:52	05/10/17 18:01	1
1,3,5-Trimethylbenzene	<18		31	18	ug/Kg	☼	05/05/17 15:52	05/10/17 18:01	1
Xylenes, Total	<37		92	37	ug/Kg	☼	05/05/17 15:52	05/10/17 18:01	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>a,a,a-Trifluorotoluene</i>	91		80 - 120	05/05/17 15:52	05/10/17 18:01	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	9.7		0.57	0.26	mg/Kg	☼	05/06/17 11:05	05/11/17 03:32	1

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

Date Collected: 05/02/17 09:15

Date Received: 05/03/17 09:00

Lab Sample ID: 500-127508-3

Matrix: Solid

Percent Solids: 81.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<34		74	34	ug/Kg	☼	05/02/17 09:15	05/16/17 04:52	50
1,1,1-Trichloroethane	<28		74	28	ug/Kg	☼	05/02/17 09:15	05/16/17 04:52	50
1,1,2,2-Tetrachloroethane	<29		74	29	ug/Kg	☼	05/02/17 09:15	05/16/17 04:52	50
1,1,2-Trichloroethane	<26		74	26	ug/Kg	☼	05/02/17 09:15	05/16/17 04:52	50
1,1-Dichloroethane	<30	*	74	30	ug/Kg	☼	05/02/17 09:15	05/16/17 04:52	50
1,1-Dichloroethene	<29	*	74	29	ug/Kg	☼	05/02/17 09:15	05/16/17 04:52	50
1,1-Dichloropropene	<22		74	22	ug/Kg	☼	05/02/17 09:15	05/16/17 04:52	50

TestAmerica Chicago

Client Sample Results

Client: TRC Environmental Corporation.
Project/Site: STH 11 Kentucky to Kearney - 275788

TestAmerica Job ID: 500-127508-1

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

Lab Sample ID: 500-127508-3

Date Collected: 05/02/17 09:15

Matrix: Solid

Date Received: 05/03/17 09:00

Percent Solids: 81.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichlorobenzene	<34		74	34	ug/Kg	☼	05/02/17 09:15	05/16/17 04:52	50
1,2,3-Trichloropropane	<31		74	31	ug/Kg	☼	05/02/17 09:15	05/16/17 04:52	50
1,2,4-Trichlorobenzene	<25		74	25	ug/Kg	☼	05/02/17 09:15	05/16/17 04:52	50
1,2,4-Trimethylbenzene	<26		74	26	ug/Kg	☼	05/02/17 09:15	05/16/17 04:52	50
1,2-Dibromo-3-Chloropropane	<150		370	150	ug/Kg	☼	05/02/17 09:15	05/16/17 04:52	50
1,2-Dibromoethane	<29		74	29	ug/Kg	☼	05/02/17 09:15	05/16/17 04:52	50
1,2-Dichlorobenzene	<25		74	25	ug/Kg	☼	05/02/17 09:15	05/16/17 04:52	50
1,2-Dichloroethane	<29		74	29	ug/Kg	☼	05/02/17 09:15	05/16/17 04:52	50
1,2-Dichloropropane	<32		74	32	ug/Kg	☼	05/02/17 09:15	05/16/17 04:52	50
1,3,5-Trimethylbenzene	<28		74	28	ug/Kg	☼	05/02/17 09:15	05/16/17 04:52	50
1,3-Dichlorobenzene	<30		74	30	ug/Kg	☼	05/02/17 09:15	05/16/17 04:52	50
1,3-Dichloropropane	<27		74	27	ug/Kg	☼	05/02/17 09:15	05/16/17 04:52	50
1,4-Dichlorobenzene	<27		74	27	ug/Kg	☼	05/02/17 09:15	05/16/17 04:52	50
2,2-Dichloropropane	<33		74	33	ug/Kg	☼	05/02/17 09:15	05/16/17 04:52	50
2-Chlorotoluene	<23		74	23	ug/Kg	☼	05/02/17 09:15	05/16/17 04:52	50
4-Chlorotoluene	<26		74	26	ug/Kg	☼	05/02/17 09:15	05/16/17 04:52	50
Benzene	<11		18	11	ug/Kg	☼	05/02/17 09:15	05/16/17 04:52	50
Bromobenzene	<26		74	26	ug/Kg	☼	05/02/17 09:15	05/16/17 04:52	50
Bromochloromethane	<32 *		74	32	ug/Kg	☼	05/02/17 09:15	05/16/17 04:52	50
Bromodichloromethane	<28		74	28	ug/Kg	☼	05/02/17 09:15	05/16/17 04:52	50
Bromoform	<36		74	36	ug/Kg	☼	05/02/17 09:15	05/16/17 04:52	50
Bromomethane	<59		150	59	ug/Kg	☼	05/02/17 09:15	05/16/17 04:52	50
Carbon tetrachloride	<28		74	28	ug/Kg	☼	05/02/17 09:15	05/16/17 04:52	50
Chlorobenzene	<29		74	29	ug/Kg	☼	05/02/17 09:15	05/16/17 04:52	50
Chloroethane	<37		74	37	ug/Kg	☼	05/02/17 09:15	05/16/17 04:52	50
Chloroform	<27 *		150	27	ug/Kg	☼	05/02/17 09:15	05/16/17 04:52	50
Chloromethane	<24		74	24	ug/Kg	☼	05/02/17 09:15	05/16/17 04:52	50
cis-1,2-Dichloroethene	<30 *		74	30	ug/Kg	☼	05/02/17 09:15	05/16/17 04:52	50
cis-1,3-Dichloropropene	<31		74	31	ug/Kg	☼	05/02/17 09:15	05/16/17 04:52	50
Dibromochloromethane	<36		74	36	ug/Kg	☼	05/02/17 09:15	05/16/17 04:52	50
Dibromomethane	<20		74	20	ug/Kg	☼	05/02/17 09:15	05/16/17 04:52	50
Dichlorodifluoromethane	<50		150	50	ug/Kg	☼	05/02/17 09:15	05/16/17 04:52	50
Ethylbenzene	<14		18	14	ug/Kg	☼	05/02/17 09:15	05/16/17 04:52	50
Hexachlorobutadiene	<33		74	33	ug/Kg	☼	05/02/17 09:15	05/16/17 04:52	50
Isopropyl ether	<20		74	20	ug/Kg	☼	05/02/17 09:15	05/16/17 04:52	50
Isopropylbenzene	<28		74	28	ug/Kg	☼	05/02/17 09:15	05/16/17 04:52	50
Methyl tert-butyl ether	<29 *		74	29	ug/Kg	☼	05/02/17 09:15	05/16/17 04:52	50
Methylene Chloride	<120 *		370	120	ug/Kg	☼	05/02/17 09:15	05/16/17 04:52	50
Naphthalene	<25 *		74	25	ug/Kg	☼	05/02/17 09:15	05/16/17 04:52	50
n-Butylbenzene	<29		74	29	ug/Kg	☼	05/02/17 09:15	05/16/17 04:52	50
N-Propylbenzene	<31		74	31	ug/Kg	☼	05/02/17 09:15	05/16/17 04:52	50
p-Isopropyltoluene	<27		74	27	ug/Kg	☼	05/02/17 09:15	05/16/17 04:52	50
sec-Butylbenzene	<29		74	29	ug/Kg	☼	05/02/17 09:15	05/16/17 04:52	50
Styrene	<29 *		74	29	ug/Kg	☼	05/02/17 09:15	05/16/17 04:52	50
tert-Butylbenzene	<29		74	29	ug/Kg	☼	05/02/17 09:15	05/16/17 04:52	50
Tetrachloroethene	<27		74	27	ug/Kg	☼	05/02/17 09:15	05/16/17 04:52	50
Toluene	<11		18	11	ug/Kg	☼	05/02/17 09:15	05/16/17 04:52	50
trans-1,2-Dichloroethene	<26 *		74	26	ug/Kg	☼	05/02/17 09:15	05/16/17 04:52	50
trans-1,3-Dichloropropene	<27		74	27	ug/Kg	☼	05/02/17 09:15	05/16/17 04:52	50

TestAmerica Chicago

Client Sample Results

Client: TRC Environmental Corporation.
Project/Site: STH 11 Kentucky to Kearney - 275788

TestAmerica Job ID: 500-127508-1

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

Date Collected: 05/02/17 09:15

Date Received: 05/03/17 09:00

Lab Sample ID: 500-127508-3

Matrix: Solid

Percent Solids: 81.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichloroethene	<12		37	12	ug/Kg	☼	05/02/17 09:15	05/16/17 04:52	50
Trichlorofluoromethane	<32	*	74	32	ug/Kg	☼	05/02/17 09:15	05/16/17 04:52	50
Vinyl chloride	<19	*	37	19	ug/Kg	☼	05/02/17 09:15	05/16/17 04:52	50
Xylenes, Total	<16		37	16	ug/Kg	☼	05/02/17 09:15	05/16/17 04:52	50
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	102		75 - 126				05/02/17 09:15	05/16/17 04:52	50
4-Bromofluorobenzene (Surr)	106		72 - 124				05/02/17 09:15	05/16/17 04:52	50
Dibromofluoromethane	89		75 - 120				05/02/17 09:15	05/16/17 04:52	50
Toluene-d8 (Surr)	92		75 - 120				05/02/17 09:15	05/16/17 04:52	50

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	16		0.58	0.27	mg/Kg	☼	05/06/17 11:05	05/11/17 03:38	1

Client Sample ID: GP-13 (6-8)

Date Collected: 05/02/17 09:20

Date Received: 05/03/17 09:00

Lab Sample ID: 500-127508-4

Matrix: Solid

Percent Solids: 81.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<34		73	34	ug/Kg	☼	05/02/17 09:20	05/16/17 05:18	50
1,1,1-Trichloroethane	<28		73	28	ug/Kg	☼	05/02/17 09:20	05/16/17 05:18	50
1,1,1,2,2-Tetrachloroethane	<29		73	29	ug/Kg	☼	05/02/17 09:20	05/16/17 05:18	50
1,1,2-Trichloroethane	<26		73	26	ug/Kg	☼	05/02/17 09:20	05/16/17 05:18	50
1,1-Dichloroethane	<30	*	73	30	ug/Kg	☼	05/02/17 09:20	05/16/17 05:18	50
1,1-Dichloroethene	<28	*	73	28	ug/Kg	☼	05/02/17 09:20	05/16/17 05:18	50
1,1-Dichloropropene	<22		73	22	ug/Kg	☼	05/02/17 09:20	05/16/17 05:18	50
1,2,3-Trichlorobenzene	<33		73	33	ug/Kg	☼	05/02/17 09:20	05/16/17 05:18	50
1,2,3-Trichloropropane	<30		73	30	ug/Kg	☼	05/02/17 09:20	05/16/17 05:18	50
1,2,4-Trichlorobenzene	<25		73	25	ug/Kg	☼	05/02/17 09:20	05/16/17 05:18	50
1,2,4-Trimethylbenzene	<26		73	26	ug/Kg	☼	05/02/17 09:20	05/16/17 05:18	50
1,2-Dibromo-3-Chloropropane	<140		360	140	ug/Kg	☼	05/02/17 09:20	05/16/17 05:18	50
1,2-Dibromoethane	<28		73	28	ug/Kg	☼	05/02/17 09:20	05/16/17 05:18	50
1,2-Dichlorobenzene	<24		73	24	ug/Kg	☼	05/02/17 09:20	05/16/17 05:18	50
1,2-Dichloroethane	<28		73	28	ug/Kg	☼	05/02/17 09:20	05/16/17 05:18	50
1,2-Dichloropropane	<31		73	31	ug/Kg	☼	05/02/17 09:20	05/16/17 05:18	50
1,3,5-Trimethylbenzene	<28		73	28	ug/Kg	☼	05/02/17 09:20	05/16/17 05:18	50
1,3-Dichlorobenzene	<29		73	29	ug/Kg	☼	05/02/17 09:20	05/16/17 05:18	50
1,3-Dichloropropane	<26		73	26	ug/Kg	☼	05/02/17 09:20	05/16/17 05:18	50
1,4-Dichlorobenzene	<26		73	26	ug/Kg	☼	05/02/17 09:20	05/16/17 05:18	50
2,2-Dichloropropane	<32		73	32	ug/Kg	☼	05/02/17 09:20	05/16/17 05:18	50
2-Chlorotoluene	<23		73	23	ug/Kg	☼	05/02/17 09:20	05/16/17 05:18	50
4-Chlorotoluene	<25		73	25	ug/Kg	☼	05/02/17 09:20	05/16/17 05:18	50
Benzene	<11		18	11	ug/Kg	☼	05/02/17 09:20	05/16/17 05:18	50
Bromobenzene	<26		73	26	ug/Kg	☼	05/02/17 09:20	05/16/17 05:18	50
Bromochloromethane	<31	*	73	31	ug/Kg	☼	05/02/17 09:20	05/16/17 05:18	50
Bromodichloromethane	<27		73	27	ug/Kg	☼	05/02/17 09:20	05/16/17 05:18	50
Bromoform	<35		73	35	ug/Kg	☼	05/02/17 09:20	05/16/17 05:18	50
Bromomethane	<58		150	58	ug/Kg	☼	05/02/17 09:20	05/16/17 05:18	50

TestAmerica Chicago

Client Sample Results

Client: TRC Environmental Corporation.
Project/Site: STH 11 Kentucky to Kearney - 275788

TestAmerica Job ID: 500-127508-1

Client Sample ID: GP-13 (6-8)

Lab Sample ID: 500-127508-4

Date Collected: 05/02/17 09:20

Matrix: Solid

Date Received: 05/03/17 09:00

Percent Solids: 81.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon tetrachloride	<28		73	28	ug/Kg	☼	05/02/17 09:20	05/16/17 05:18	50
Chlorobenzene	<28		73	28	ug/Kg	☼	05/02/17 09:20	05/16/17 05:18	50
Chloroethane	<37		73	37	ug/Kg	☼	05/02/17 09:20	05/16/17 05:18	50
Chloroform	<27 *		150	27	ug/Kg	☼	05/02/17 09:20	05/16/17 05:18	50
Chloromethane	<23		73	23	ug/Kg	☼	05/02/17 09:20	05/16/17 05:18	50
cis-1,2-Dichloroethene	<30 *		73	30	ug/Kg	☼	05/02/17 09:20	05/16/17 05:18	50
cis-1,3-Dichloropropene	<30		73	30	ug/Kg	☼	05/02/17 09:20	05/16/17 05:18	50
Dibromochloromethane	<35		73	35	ug/Kg	☼	05/02/17 09:20	05/16/17 05:18	50
Dibromomethane	<20		73	20	ug/Kg	☼	05/02/17 09:20	05/16/17 05:18	50
Dichlorodifluoromethane	<49		150	49	ug/Kg	☼	05/02/17 09:20	05/16/17 05:18	50
Ethylbenzene	<13		18	13	ug/Kg	☼	05/02/17 09:20	05/16/17 05:18	50
Hexachlorobutadiene	<32		73	32	ug/Kg	☼	05/02/17 09:20	05/16/17 05:18	50
Isopropyl ether	<20		73	20	ug/Kg	☼	05/02/17 09:20	05/16/17 05:18	50
Isopropylbenzene	<28		73	28	ug/Kg	☼	05/02/17 09:20	05/16/17 05:18	50
Methyl tert-butyl ether	<29 *		73	29	ug/Kg	☼	05/02/17 09:20	05/16/17 05:18	50
Methylene Chloride	<120 *		360	120	ug/Kg	☼	05/02/17 09:20	05/16/17 05:18	50
Naphthalene	<24 *		73	24	ug/Kg	☼	05/02/17 09:20	05/16/17 05:18	50
n-Butylbenzene	<28		73	28	ug/Kg	☼	05/02/17 09:20	05/16/17 05:18	50
N-Propylbenzene	<30		73	30	ug/Kg	☼	05/02/17 09:20	05/16/17 05:18	50
p-Isopropyltoluene	<26		73	26	ug/Kg	☼	05/02/17 09:20	05/16/17 05:18	50
sec-Butylbenzene	<29		73	29	ug/Kg	☼	05/02/17 09:20	05/16/17 05:18	50
Styrene	<28 *		73	28	ug/Kg	☼	05/02/17 09:20	05/16/17 05:18	50
tert-Butylbenzene	<29		73	29	ug/Kg	☼	05/02/17 09:20	05/16/17 05:18	50
Tetrachloroethene	<27		73	27	ug/Kg	☼	05/02/17 09:20	05/16/17 05:18	50
Toluene	<11		18	11	ug/Kg	☼	05/02/17 09:20	05/16/17 05:18	50
trans-1,2-Dichloroethene	<25 *		73	25	ug/Kg	☼	05/02/17 09:20	05/16/17 05:18	50
trans-1,3-Dichloropropene	<26		73	26	ug/Kg	☼	05/02/17 09:20	05/16/17 05:18	50
Trichloroethene	<12		36	12	ug/Kg	☼	05/02/17 09:20	05/16/17 05:18	50
Trichlorofluoromethane	<31 *		73	31	ug/Kg	☼	05/02/17 09:20	05/16/17 05:18	50
Vinyl chloride	<19 *		36	19	ug/Kg	☼	05/02/17 09:20	05/16/17 05:18	50
Xylenes, Total	<16		36	16	ug/Kg	☼	05/02/17 09:20	05/16/17 05:18	50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	100		75 - 126	05/02/17 09:20	05/16/17 05:18	50
4-Bromofluorobenzene (Surr)	108		72 - 124	05/02/17 09:20	05/16/17 05:18	50
Dibromofluoromethane	89		75 - 120	05/02/17 09:20	05/16/17 05:18	50
Toluene-d8 (Surr)	93		75 - 120	05/02/17 09:20	05/16/17 05:18	50

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	11		0.52	0.24	mg/Kg	☼	05/06/17 11:05	05/11/17 03:48	1

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

Lab Sample ID: 500-127508-5

Date Collected: 05/02/17 09:30

Matrix: Solid

Date Received: 05/03/17 09:00

Percent Solids: 82.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<33		72	33	ug/Kg	☼	05/02/17 09:30	05/16/17 05:44	50
1,1,1-Trichloroethane	<27		72	27	ug/Kg	☼	05/02/17 09:30	05/16/17 05:44	50

TestAmerica Chicago

Client Sample Results

Client: TRC Environmental Corporation.
 Project/Site: STH 11 Kentucky to Kearney - 275788

TestAmerica Job ID: 500-127508-1

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

Lab Sample ID: 500-127508-5

Date Collected: 05/02/17 09:30

Matrix: Solid

Date Received: 05/03/17 09:00

Percent Solids: 82.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	<29		72	29	ug/Kg	☼	05/02/17 09:30	05/16/17 05:44	50
1,1,2-Trichloroethane	<25		72	25	ug/Kg	☼	05/02/17 09:30	05/16/17 05:44	50
1,1-Dichloroethane	<30	*	72	30	ug/Kg	☼	05/02/17 09:30	05/16/17 05:44	50
1,1-Dichloroethene	<28	*	72	28	ug/Kg	☼	05/02/17 09:30	05/16/17 05:44	50
1,1-Dichloropropene	<22		72	22	ug/Kg	☼	05/02/17 09:30	05/16/17 05:44	50
1,2,3-Trichlorobenzene	<33		72	33	ug/Kg	☼	05/02/17 09:30	05/16/17 05:44	50
1,2,3-Trichloropropane	<30		72	30	ug/Kg	☼	05/02/17 09:30	05/16/17 05:44	50
1,2,4-Trichlorobenzene	<25		72	25	ug/Kg	☼	05/02/17 09:30	05/16/17 05:44	50
1,2,4-Trimethylbenzene	<26		72	26	ug/Kg	☼	05/02/17 09:30	05/16/17 05:44	50
1,2-Dibromo-3-Chloropropane	<140		360	140	ug/Kg	☼	05/02/17 09:30	05/16/17 05:44	50
1,2-Dibromoethane	<28		72	28	ug/Kg	☼	05/02/17 09:30	05/16/17 05:44	50
1,2-Dichlorobenzene	<24		72	24	ug/Kg	☼	05/02/17 09:30	05/16/17 05:44	50
1,2-Dichloroethane	<28		72	28	ug/Kg	☼	05/02/17 09:30	05/16/17 05:44	50
1,2-Dichloropropane	<31		72	31	ug/Kg	☼	05/02/17 09:30	05/16/17 05:44	50
1,3,5-Trimethylbenzene	<27		72	27	ug/Kg	☼	05/02/17 09:30	05/16/17 05:44	50
1,3-Dichlorobenzene	<29		72	29	ug/Kg	☼	05/02/17 09:30	05/16/17 05:44	50
1,3-Dichloropropane	<26		72	26	ug/Kg	☼	05/02/17 09:30	05/16/17 05:44	50
1,4-Dichlorobenzene	<26		72	26	ug/Kg	☼	05/02/17 09:30	05/16/17 05:44	50
2,2-Dichloropropane	<32		72	32	ug/Kg	☼	05/02/17 09:30	05/16/17 05:44	50
2-Chlorotoluene	<23		72	23	ug/Kg	☼	05/02/17 09:30	05/16/17 05:44	50
4-Chlorotoluene	<25		72	25	ug/Kg	☼	05/02/17 09:30	05/16/17 05:44	50
Benzene	51		18	11	ug/Kg	☼	05/02/17 09:30	05/16/17 05:44	50
Bromobenzene	<26		72	26	ug/Kg	☼	05/02/17 09:30	05/16/17 05:44	50
Bromochloromethane	<31	*	72	31	ug/Kg	☼	05/02/17 09:30	05/16/17 05:44	50
Bromodichloromethane	<27		72	27	ug/Kg	☼	05/02/17 09:30	05/16/17 05:44	50
Bromoform	<35		72	35	ug/Kg	☼	05/02/17 09:30	05/16/17 05:44	50
Bromomethane	<58		140	58	ug/Kg	☼	05/02/17 09:30	05/16/17 05:44	50
Carbon tetrachloride	<28		72	28	ug/Kg	☼	05/02/17 09:30	05/16/17 05:44	50
Chlorobenzene	<28		72	28	ug/Kg	☼	05/02/17 09:30	05/16/17 05:44	50
Chloroethane	<36		72	36	ug/Kg	☼	05/02/17 09:30	05/16/17 05:44	50
Chloroform	<27	*	140	27	ug/Kg	☼	05/02/17 09:30	05/16/17 05:44	50
Chloromethane	<23		72	23	ug/Kg	☼	05/02/17 09:30	05/16/17 05:44	50
cis-1,2-Dichloroethene	<29	*	72	29	ug/Kg	☼	05/02/17 09:30	05/16/17 05:44	50
cis-1,3-Dichloropropene	<30		72	30	ug/Kg	☼	05/02/17 09:30	05/16/17 05:44	50
Dibromochloromethane	<35		72	35	ug/Kg	☼	05/02/17 09:30	05/16/17 05:44	50
Dibromomethane	<20		72	20	ug/Kg	☼	05/02/17 09:30	05/16/17 05:44	50
Dichlorodifluoromethane	<49		140	49	ug/Kg	☼	05/02/17 09:30	05/16/17 05:44	50
Ethylbenzene	<13		18	13	ug/Kg	☼	05/02/17 09:30	05/16/17 05:44	50
Hexachlorobutadiene	<32		72	32	ug/Kg	☼	05/02/17 09:30	05/16/17 05:44	50
Isopropyl ether	<20		72	20	ug/Kg	☼	05/02/17 09:30	05/16/17 05:44	50
Isopropylbenzene	<28		72	28	ug/Kg	☼	05/02/17 09:30	05/16/17 05:44	50
Methyl tert-butyl ether	<28	*	72	28	ug/Kg	☼	05/02/17 09:30	05/16/17 05:44	50
Methylene Chloride	<120	*	360	120	ug/Kg	☼	05/02/17 09:30	05/16/17 05:44	50
Naphthalene	<24	*	72	24	ug/Kg	☼	05/02/17 09:30	05/16/17 05:44	50
n-Butylbenzene	<28		72	28	ug/Kg	☼	05/02/17 09:30	05/16/17 05:44	50
N-Propylbenzene	<30		72	30	ug/Kg	☼	05/02/17 09:30	05/16/17 05:44	50
p-Isopropyltoluene	<26		72	26	ug/Kg	☼	05/02/17 09:30	05/16/17 05:44	50
sec-Butylbenzene	<29		72	29	ug/Kg	☼	05/02/17 09:30	05/16/17 05:44	50
Styrene	<28	*	72	28	ug/Kg	☼	05/02/17 09:30	05/16/17 05:44	50

TestAmerica Chicago

Client Sample Results

Client: TRC Environmental Corporation.
Project/Site: STH 11 Kentucky to Kearney - 275788

TestAmerica Job ID: 500-127508-1

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

Date Collected: 05/02/17 09:30

Date Received: 05/03/17 09:00

Lab Sample ID: 500-127508-5

Matrix: Solid

Percent Solids: 82.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
tert-Butylbenzene	<29		72	29	ug/Kg	☼	05/02/17 09:30	05/16/17 05:44	50
Tetrachloroethene	<27		72	27	ug/Kg	☼	05/02/17 09:30	05/16/17 05:44	50
Toluene	<11		18	11	ug/Kg	☼	05/02/17 09:30	05/16/17 05:44	50
trans-1,2-Dichloroethene	<25 *		72	25	ug/Kg	☼	05/02/17 09:30	05/16/17 05:44	50
trans-1,3-Dichloropropene	<26		72	26	ug/Kg	☼	05/02/17 09:30	05/16/17 05:44	50
Trichloroethene	<12		36	12	ug/Kg	☼	05/02/17 09:30	05/16/17 05:44	50
Trichlorofluoromethane	<31 *		72	31	ug/Kg	☼	05/02/17 09:30	05/16/17 05:44	50
Vinyl chloride	<19 *		36	19	ug/Kg	☼	05/02/17 09:30	05/16/17 05:44	50
Xylenes, Total	<16		36	16	ug/Kg	☼	05/02/17 09:30	05/16/17 05:44	50
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	103		75 - 126				05/02/17 09:30	05/16/17 05:44	50
4-Bromofluorobenzene (Surr)	105		72 - 124				05/02/17 09:30	05/16/17 05:44	50
Dibromofluoromethane	88		75 - 120				05/02/17 09:30	05/16/17 05:44	50
Toluene-d8 (Surr)	94		75 - 120				05/02/17 09:30	05/16/17 05:44	50

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	15		0.58	0.27	mg/Kg	☼	05/06/17 11:05	05/11/17 03:51	1

Client Sample ID: GP-14 (6-8)

Date Collected: 05/02/17 09:35

Date Received: 05/03/17 09:00

Lab Sample ID: 500-127508-6

Matrix: Solid

Percent Solids: 73.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<40		87	40	ug/Kg	☼	05/02/17 09:35	05/16/17 06:11	50
1,1,1-Trichloroethane	<33		87	33	ug/Kg	☼	05/02/17 09:35	05/16/17 06:11	50
1,1,1,2,2-Tetrachloroethane	<34		87	34	ug/Kg	☼	05/02/17 09:35	05/16/17 06:11	50
1,1,2-Trichloroethane	<31		87	31	ug/Kg	☼	05/02/17 09:35	05/16/17 06:11	50
1,1-Dichloroethane	<36 *		87	36	ug/Kg	☼	05/02/17 09:35	05/16/17 06:11	50
1,1-Dichloroethene	<34 *		87	34	ug/Kg	☼	05/02/17 09:35	05/16/17 06:11	50
1,1-Dichloropropene	<26		87	26	ug/Kg	☼	05/02/17 09:35	05/16/17 06:11	50
1,2,3-Trichlorobenzene	<40		87	40	ug/Kg	☼	05/02/17 09:35	05/16/17 06:11	50
1,2,3-Trichloropropane	<36		87	36	ug/Kg	☼	05/02/17 09:35	05/16/17 06:11	50
1,2,4-Trichlorobenzene	<30		87	30	ug/Kg	☼	05/02/17 09:35	05/16/17 06:11	50
1,2,4-Trimethylbenzene	<31		87	31	ug/Kg	☼	05/02/17 09:35	05/16/17 06:11	50
1,2-Dibromo-3-Chloropropane	<170		430	170	ug/Kg	☼	05/02/17 09:35	05/16/17 06:11	50
1,2-Dibromoethane	<33		87	33	ug/Kg	☼	05/02/17 09:35	05/16/17 06:11	50
1,2-Dichlorobenzene	<29		87	29	ug/Kg	☼	05/02/17 09:35	05/16/17 06:11	50
1,2-Dichloroethane	<34		87	34	ug/Kg	☼	05/02/17 09:35	05/16/17 06:11	50
1,2-Dichloropropane	<37		87	37	ug/Kg	☼	05/02/17 09:35	05/16/17 06:11	50
1,3,5-Trimethylbenzene	<33		87	33	ug/Kg	☼	05/02/17 09:35	05/16/17 06:11	50
1,3-Dichlorobenzene	<35		87	35	ug/Kg	☼	05/02/17 09:35	05/16/17 06:11	50
1,3-Dichloropropane	<31		87	31	ug/Kg	☼	05/02/17 09:35	05/16/17 06:11	50
1,4-Dichlorobenzene	<32		87	32	ug/Kg	☼	05/02/17 09:35	05/16/17 06:11	50
2,2-Dichloropropane	<38		87	38	ug/Kg	☼	05/02/17 09:35	05/16/17 06:11	50
2-Chlorotoluene	<27		87	27	ug/Kg	☼	05/02/17 09:35	05/16/17 06:11	50
4-Chlorotoluene	<30		87	30	ug/Kg	☼	05/02/17 09:35	05/16/17 06:11	50
Benzene	<13		22	13	ug/Kg	☼	05/02/17 09:35	05/16/17 06:11	50

TestAmerica Chicago

Client Sample Results

Client: TRC Environmental Corporation.
Project/Site: STH 11 Kentucky to Kearney - 275788

TestAmerica Job ID: 500-127508-1

Client Sample ID: GP-14 (6-8)

Lab Sample ID: 500-127508-6

Date Collected: 05/02/17 09:35

Matrix: Solid

Date Received: 05/03/17 09:00

Percent Solids: 73.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromobenzene	<31		87	31	ug/Kg	☼	05/02/17 09:35	05/16/17 06:11	50
Bromochloromethane	<37	*	87	37	ug/Kg	☼	05/02/17 09:35	05/16/17 06:11	50
Bromodichloromethane	<32		87	32	ug/Kg	☼	05/02/17 09:35	05/16/17 06:11	50
Bromoform	<42		87	42	ug/Kg	☼	05/02/17 09:35	05/16/17 06:11	50
Bromomethane	<69		170	69	ug/Kg	☼	05/02/17 09:35	05/16/17 06:11	50
Carbon tetrachloride	<33		87	33	ug/Kg	☼	05/02/17 09:35	05/16/17 06:11	50
Chlorobenzene	<33		87	33	ug/Kg	☼	05/02/17 09:35	05/16/17 06:11	50
Chloroethane	<44		87	44	ug/Kg	☼	05/02/17 09:35	05/16/17 06:11	50
Chloroform	<32	*	170	32	ug/Kg	☼	05/02/17 09:35	05/16/17 06:11	50
Chloromethane	<28		87	28	ug/Kg	☼	05/02/17 09:35	05/16/17 06:11	50
cis-1,2-Dichloroethene	<35	*	87	35	ug/Kg	☼	05/02/17 09:35	05/16/17 06:11	50
cis-1,3-Dichloropropene	<36		87	36	ug/Kg	☼	05/02/17 09:35	05/16/17 06:11	50
Dibromochloromethane	<42		87	42	ug/Kg	☼	05/02/17 09:35	05/16/17 06:11	50
Dibromomethane	<23		87	23	ug/Kg	☼	05/02/17 09:35	05/16/17 06:11	50
Dichlorodifluoromethane	<58		170	58	ug/Kg	☼	05/02/17 09:35	05/16/17 06:11	50
Ethylbenzene	<16		22	16	ug/Kg	☼	05/02/17 09:35	05/16/17 06:11	50
Hexachlorobutadiene	<39		87	39	ug/Kg	☼	05/02/17 09:35	05/16/17 06:11	50
Isopropyl ether	<24		87	24	ug/Kg	☼	05/02/17 09:35	05/16/17 06:11	50
Isopropylbenzene	<33		87	33	ug/Kg	☼	05/02/17 09:35	05/16/17 06:11	50
Methyl tert-butyl ether	<34	*	87	34	ug/Kg	☼	05/02/17 09:35	05/16/17 06:11	50
Methylene Chloride	<140	*	430	140	ug/Kg	☼	05/02/17 09:35	05/16/17 06:11	50
Naphthalene	<29	*	87	29	ug/Kg	☼	05/02/17 09:35	05/16/17 06:11	50
n-Butylbenzene	<34		87	34	ug/Kg	☼	05/02/17 09:35	05/16/17 06:11	50
N-Propylbenzene	<36		87	36	ug/Kg	☼	05/02/17 09:35	05/16/17 06:11	50
p-Isopropyltoluene	<31		87	31	ug/Kg	☼	05/02/17 09:35	05/16/17 06:11	50
sec-Butylbenzene	<34		87	34	ug/Kg	☼	05/02/17 09:35	05/16/17 06:11	50
Styrene	<33	*	87	33	ug/Kg	☼	05/02/17 09:35	05/16/17 06:11	50
tert-Butylbenzene	<34		87	34	ug/Kg	☼	05/02/17 09:35	05/16/17 06:11	50
Tetrachloroethene	<32		87	32	ug/Kg	☼	05/02/17 09:35	05/16/17 06:11	50
Toluene	<13		22	13	ug/Kg	☼	05/02/17 09:35	05/16/17 06:11	50
trans-1,2-Dichloroethene	<30	*	87	30	ug/Kg	☼	05/02/17 09:35	05/16/17 06:11	50
trans-1,3-Dichloropropene	<31		87	31	ug/Kg	☼	05/02/17 09:35	05/16/17 06:11	50
Trichloroethene	<14		43	14	ug/Kg	☼	05/02/17 09:35	05/16/17 06:11	50
Trichlorofluoromethane	<37	*	87	37	ug/Kg	☼	05/02/17 09:35	05/16/17 06:11	50
Vinyl chloride	<23	*	43	23	ug/Kg	☼	05/02/17 09:35	05/16/17 06:11	50
Xylenes, Total	<19		43	19	ug/Kg	☼	05/02/17 09:35	05/16/17 06:11	50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	103		75 - 126	05/02/17 09:35	05/16/17 06:11	50
4-Bromofluorobenzene (Surr)	106		72 - 124	05/02/17 09:35	05/16/17 06:11	50
Dibromofluoromethane	89		75 - 120	05/02/17 09:35	05/16/17 06:11	50
Toluene-d8 (Surr)	93		75 - 120	05/02/17 09:35	05/16/17 06:11	50

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	16		0.65	0.30	mg/Kg	☼	05/06/17 11:05	05/11/17 03:54	1

TestAmerica Chicago

Client Sample Results

Client: TRC Environmental Corporation.
Project/Site: STH 11 Kentucky to Kearney - 275788

TestAmerica Job ID: 500-127508-1

Client Sample ID: GP-15 (2-4)

Date Collected: 05/02/17 09:55

Date Received: 05/03/17 09:00

Lab Sample ID: 500-127508-7

Matrix: Solid

Percent Solids: 92.0

Method: WDNR - Wisconsin - Gasoline Range Organics (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<20		28	20	ug/Kg	☼	05/05/17 15:52	05/10/17 18:28	1
Ethylbenzene	<21		28	21	ug/Kg	☼	05/05/17 15:52	05/10/17 18:28	1
Methyl tert-butyl ether	<13		28	13	ug/Kg	☼	05/05/17 15:52	05/10/17 18:28	1
Naphthalene	<130		280	130	ug/Kg	☼	05/05/17 15:52	05/10/17 18:28	1
Toluene	<19		28	19	ug/Kg	☼	05/05/17 15:52	05/10/17 18:28	1
1,2,4-Trimethylbenzene	<17		28	17	ug/Kg	☼	05/05/17 15:52	05/10/17 18:28	1
1,3,5-Trimethylbenzene	<17		28	17	ug/Kg	☼	05/05/17 15:52	05/10/17 18:28	1
Xylenes, Total	<33		84	33	ug/Kg	☼	05/05/17 15:52	05/10/17 18:28	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	90		80 - 120	05/05/17 15:52	05/10/17 18:28	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	7.8		0.49	0.23	mg/Kg	☼	05/06/17 11:05	05/11/17 03:58	1

Client Sample ID: GP-15 (6-8)

Date Collected: 05/02/17 10:00

Date Received: 05/03/17 09:00

Lab Sample ID: 500-127508-8

Matrix: Solid

Percent Solids: 85.0

Method: WDNR - Wisconsin - Gasoline Range Organics (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<21		30	21	ug/Kg	☼	05/05/17 15:52	05/10/17 18:55	1
Ethylbenzene	<23		30	23	ug/Kg	☼	05/05/17 15:52	05/10/17 18:55	1
Methyl tert-butyl ether	<14		30	14	ug/Kg	☼	05/05/17 15:52	05/10/17 18:55	1
Naphthalene	<140		300	140	ug/Kg	☼	05/05/17 15:52	05/10/17 18:55	1
Toluene	<20		30	20	ug/Kg	☼	05/05/17 15:52	05/10/17 18:55	1
1,2,4-Trimethylbenzene	<18		30	18	ug/Kg	☼	05/05/17 15:52	05/10/17 18:55	1
1,3,5-Trimethylbenzene	<18		30	18	ug/Kg	☼	05/05/17 15:52	05/10/17 18:55	1
Xylenes, Total	<36		89	36	ug/Kg	☼	05/05/17 15:52	05/10/17 18:55	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	89		80 - 120	05/05/17 15:52	05/10/17 18:55	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	7.5		0.51	0.23	mg/Kg	☼	05/06/17 11:05	05/11/17 04:02	1

Client Sample ID: GP-16 (2-4)

Date Collected: 05/02/17 10:30

Date Received: 05/03/17 09:00

Lab Sample ID: 500-127508-9

Matrix: Solid

Percent Solids: 81.5

Method: WDNR - Wisconsin - Gasoline Range Organics (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<21		30	21	ug/Kg	☼	05/05/17 15:52	05/10/17 19:22	1
Ethylbenzene	<23		30	23	ug/Kg	☼	05/05/17 15:52	05/10/17 19:22	1
Methyl tert-butyl ether	<14		30	14	ug/Kg	☼	05/05/17 15:52	05/10/17 19:22	1
Naphthalene	<140		300	140	ug/Kg	☼	05/05/17 15:52	05/10/17 19:22	1
Toluene	<20		30	20	ug/Kg	☼	05/05/17 15:52	05/10/17 19:22	1
1,2,4-Trimethylbenzene	22	J	30	18	ug/Kg	☼	05/05/17 15:52	05/10/17 19:22	1
1,3,5-Trimethylbenzene	<18		30	18	ug/Kg	☼	05/05/17 15:52	05/10/17 19:22	1

TestAmerica Chicago

Client Sample Results

Client: TRC Environmental Corporation.
Project/Site: STH 11 Kentucky to Kearney - 275788

TestAmerica Job ID: 500-127508-1

Client Sample ID: GP-16 (2-4)

Date Collected: 05/02/17 10:30

Date Received: 05/03/17 09:00

Lab Sample ID: 500-127508-9

Matrix: Solid

Percent Solids: 81.5

Method: WDNR - Wisconsin - Gasoline Range Organics (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Xylenes, Total	<36		89	36	ug/Kg	☼	05/05/17 15:52	05/10/17 19:22	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	91		80 - 120	05/05/17 15:52	05/10/17 19:22	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	16		0.56	0.26	mg/Kg	☼	05/06/17 11:05	05/11/17 04:06	1

Client Sample ID: GP-16 (6-8)

Date Collected: 05/02/17 10:35

Date Received: 05/03/17 09:00

Lab Sample ID: 500-127508-10

Matrix: Solid

Percent Solids: 83.9

Method: WDNR - Wisconsin - Gasoline Range Organics (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<22		30	22	ug/Kg	☼	05/05/17 15:52	05/10/17 19:48	1
Ethylbenzene	<23		30	23	ug/Kg	☼	05/05/17 15:52	05/10/17 19:48	1
Methyl tert-butyl ether	<15		30	15	ug/Kg	☼	05/05/17 15:52	05/10/17 19:48	1
Naphthalene	<150		300	150	ug/Kg	☼	05/05/17 15:52	05/10/17 19:48	1
Toluene	<21		30	21	ug/Kg	☼	05/05/17 15:52	05/10/17 19:48	1
1,2,4-Trimethylbenzene	<18		30	18	ug/Kg	☼	05/05/17 15:52	05/10/17 19:48	1
1,3,5-Trimethylbenzene	<18		30	18	ug/Kg	☼	05/05/17 15:52	05/10/17 19:48	1
Xylenes, Total	<36		91	36	ug/Kg	☼	05/05/17 15:52	05/10/17 19:48	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	91		80 - 120	05/05/17 15:52	05/10/17 19:48	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	8.5		0.56	0.26	mg/Kg	☼	05/06/17 11:05	05/11/17 04:10	1

Client Sample ID: GP-17 (2-4)

Date Collected: 05/02/17 10:50

Date Received: 05/03/17 09:00

Lab Sample ID: 500-127508-11

Matrix: Solid

Percent Solids: 91.5

Method: WDNR - Wisconsin - Gasoline Range Organics (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<20		28	20	ug/Kg	☼	05/05/17 15:52	05/10/17 20:15	1
Ethylbenzene	<22		28	22	ug/Kg	☼	05/05/17 15:52	05/10/17 20:15	1
Methyl tert-butyl ether	<14		28	14	ug/Kg	☼	05/05/17 15:52	05/10/17 20:15	1
Naphthalene	<140		280	140	ug/Kg	☼	05/05/17 15:52	05/10/17 20:15	1
Toluene	<19		28	19	ug/Kg	☼	05/05/17 15:52	05/10/17 20:15	1
1,2,4-Trimethylbenzene	<17		28	17	ug/Kg	☼	05/05/17 15:52	05/10/17 20:15	1
1,3,5-Trimethylbenzene	<17		28	17	ug/Kg	☼	05/05/17 15:52	05/10/17 20:15	1
Xylenes, Total	<34		85	34	ug/Kg	☼	05/05/17 15:52	05/10/17 20:15	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	91		80 - 120	05/05/17 15:52	05/10/17 20:15	1

TestAmerica Chicago

Client Sample Results

Client: TRC Environmental Corporation.
Project/Site: STH 11 Kentucky to Kearney - 275788

TestAmerica Job ID: 500-127508-1

Client Sample ID: GP-17 (2-4)

Date Collected: 05/02/17 10:50

Date Received: 05/03/17 09:00

Lab Sample ID: 500-127508-11

Matrix: Solid

Percent Solids: 91.5

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	7.1		0.51	0.24	mg/Kg	☼	05/06/17 11:05	05/11/17 04:15	1

Client Sample ID: GP-17 (6-8)

Date Collected: 05/02/17 10:55

Date Received: 05/03/17 09:00

Lab Sample ID: 500-127508-12

Matrix: Solid

Percent Solids: 79.8

Method: WDNR - Wisconsin - Gasoline Range Organics (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<23		32	23	ug/Kg	☼	05/05/17 15:52	05/10/17 20:42	1
Ethylbenzene	<24		32	24	ug/Kg	☼	05/05/17 15:52	05/10/17 20:42	1
Methyl tert-butyl ether	<15		32	15	ug/Kg	☼	05/05/17 15:52	05/10/17 20:42	1
Naphthalene	<150		320	150	ug/Kg	☼	05/05/17 15:52	05/10/17 20:42	1
Toluene	<22		32	22	ug/Kg	☼	05/05/17 15:52	05/10/17 20:42	1
1,2,4-Trimethylbenzene	<19		32	19	ug/Kg	☼	05/05/17 15:52	05/10/17 20:42	1
1,3,5-Trimethylbenzene	<19		32	19	ug/Kg	☼	05/05/17 15:52	05/10/17 20:42	1
Xylenes, Total	<39		97	39	ug/Kg	☼	05/05/17 15:52	05/10/17 20:42	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	90		80 - 120	05/05/17 15:52	05/10/17 20:42	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	9.6		0.57	0.27	mg/Kg	☼	05/06/17 11:05	05/11/17 13:32	1

Client Sample ID: GP-18 (2-4)

Date Collected: 05/02/17 11:25

Date Received: 05/03/17 09:00

Lab Sample ID: 500-127508-13

Matrix: Solid

Percent Solids: 94.0

Method: WDNR - Wisconsin - Gasoline Range Organics (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trimethylbenzene	<14		24	14	ug/Kg	☼	05/05/17 15:52	05/10/17 21:09	1
1,3,5-Trimethylbenzene	<14		24	14	ug/Kg	☼	05/05/17 15:52	05/10/17 21:09	1
Benzene	<17		24	17	ug/Kg	☼	05/05/17 15:52	05/10/17 21:09	1
Ethylbenzene	<18		24	18	ug/Kg	☼	05/05/17 15:52	05/10/17 21:09	1
Methyl tert-butyl ether	<11		24	11	ug/Kg	☼	05/05/17 15:52	05/10/17 21:09	1
Naphthalene	<110		240	110	ug/Kg	☼	05/05/17 15:52	05/10/17 21:09	1
Toluene	<16		24	16	ug/Kg	☼	05/05/17 15:52	05/10/17 21:09	1
Xylenes, Total	<28		71	28	ug/Kg	☼	05/05/17 15:52	05/10/17 21:09	1
Wisconsin GRO	<2400		4700	2400	ug/Kg	☼	05/05/17 15:52	05/10/17 21:09	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	91		80 - 120	05/05/17 15:52	05/10/17 21:09	1
a,a,a-Trifluorotoluene	101		80 - 120	05/05/17 15:52	05/10/17 21:09	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	10		0.48	0.22	mg/Kg	☼	05/06/17 11:05	05/11/17 04:23	1

TestAmerica Chicago

Client Sample Results

Client: TRC Environmental Corporation.
Project/Site: STH 11 Kentucky to Kearney - 275788

TestAmerica Job ID: 500-127508-1

Client Sample ID: GP-18 (6-8)

Lab Sample ID: 500-127508-14

Date Collected: 05/02/17 11:30

Matrix: Solid

Date Received: 05/03/17 09:00

Percent Solids: 93.5

Method: WDNR - Wisconsin - Gasoline Range Organics (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<20		28	20	ug/Kg	☼	05/05/17 15:52	05/10/17 21:36	1
Ethylbenzene	<21		28	21	ug/Kg	☼	05/05/17 15:52	05/10/17 21:36	1
Methyl tert-butyl ether	<13		28	13	ug/Kg	☼	05/05/17 15:52	05/10/17 21:36	1
Naphthalene	<130		280	130	ug/Kg	☼	05/05/17 15:52	05/10/17 21:36	1
Toluene	<19		28	19	ug/Kg	☼	05/05/17 15:52	05/10/17 21:36	1
1,2,4-Trimethylbenzene	<17		28	17	ug/Kg	☼	05/05/17 15:52	05/10/17 21:36	1
1,3,5-Trimethylbenzene	<17		28	17	ug/Kg	☼	05/05/17 15:52	05/10/17 21:36	1
Xylenes, Total	<33		83	33	ug/Kg	☼	05/05/17 15:52	05/10/17 21:36	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	91		80 - 120	05/05/17 15:52	05/10/17 21:36	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	7.3		0.51	0.24	mg/Kg	☼	05/06/17 11:05	05/11/17 04:35	1

Client Sample ID: GP-19 (2-4)

Lab Sample ID: 500-127508-15

Date Collected: 05/02/17 11:50

Matrix: Solid

Date Received: 05/03/17 09:00

Percent Solids: 95.2

Method: WDNR - Wisconsin - Gasoline Range Organics (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<17		24	17	ug/Kg	☼	05/05/17 15:52	05/10/17 23:23	1
Ethylbenzene	<18		24	18	ug/Kg	☼	05/05/17 15:52	05/10/17 23:23	1
Methyl tert-butyl ether	<11		24	11	ug/Kg	☼	05/05/17 15:52	05/10/17 23:23	1
Naphthalene	<110		240	110	ug/Kg	☼	05/05/17 15:52	05/10/17 23:23	1
Toluene	<16		24	16	ug/Kg	☼	05/05/17 15:52	05/10/17 23:23	1
1,2,4-Trimethylbenzene	<14		24	14	ug/Kg	☼	05/05/17 15:52	05/10/17 23:23	1
1,3,5-Trimethylbenzene	<14		24	14	ug/Kg	☼	05/05/17 15:52	05/10/17 23:23	1
Xylenes, Total	<28		71	28	ug/Kg	☼	05/05/17 15:52	05/10/17 23:23	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	89		80 - 120	05/05/17 15:52	05/10/17 23:23	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	23		0.45	0.21	mg/Kg	☼	05/06/17 11:05	05/11/17 04:39	1

Client Sample ID: GP-19 (6-8)

Lab Sample ID: 500-127508-16

Date Collected: 05/02/17 11:55

Matrix: Solid

Date Received: 05/03/17 09:00

Percent Solids: 82.1

Method: WDNR - Wisconsin - Gasoline Range Organics (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<21		30	21	ug/Kg	☼	05/05/17 15:52	05/10/17 23:50	1
Ethylbenzene	<23		30	23	ug/Kg	☼	05/05/17 15:52	05/10/17 23:50	1
Methyl tert-butyl ether	<14		30	14	ug/Kg	☼	05/05/17 15:52	05/10/17 23:50	1
Naphthalene	<140		300	140	ug/Kg	☼	05/05/17 15:52	05/10/17 23:50	1
Toluene	<20		30	20	ug/Kg	☼	05/05/17 15:52	05/10/17 23:50	1
1,2,4-Trimethylbenzene	<18		30	18	ug/Kg	☼	05/05/17 15:52	05/10/17 23:50	1
1,3,5-Trimethylbenzene	<18		30	18	ug/Kg	☼	05/05/17 15:52	05/10/17 23:50	1

TestAmerica Chicago

Client Sample Results

Client: TRC Environmental Corporation.
Project/Site: STH 11 Kentucky to Kearney - 275788

TestAmerica Job ID: 500-127508-1

Client Sample ID: GP-19 (6-8)

Date Collected: 05/02/17 11:55

Date Received: 05/03/17 09:00

Lab Sample ID: 500-127508-16

Matrix: Solid

Percent Solids: 82.1

Method: WDNR - Wisconsin - Gasoline Range Organics (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Xylenes, Total	<36		89	36	ug/Kg	☼	05/05/17 15:52	05/10/17 23:50	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	90		80 - 120	05/05/17 15:52	05/10/17 23:50	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	11		0.58	0.27	mg/Kg	☼	05/06/17 11:05	05/11/17 04:50	1

Client Sample ID: GP-20 (2-4)

Date Collected: 05/02/17 12:20

Date Received: 05/03/17 09:00

Lab Sample ID: 500-127508-17

Matrix: Solid

Percent Solids: 91.3

Method: WDNR - Wisconsin - Gasoline Range Organics (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<19		27	19	ug/Kg	☼	05/05/17 15:52	05/11/17 00:17	1
Ethylbenzene	<20		27	20	ug/Kg	☼	05/05/17 15:52	05/11/17 00:17	1
Methyl tert-butyl ether	<13		27	13	ug/Kg	☼	05/05/17 15:52	05/11/17 00:17	1
Naphthalene	<130		270	130	ug/Kg	☼	05/05/17 15:52	05/11/17 00:17	1
Toluene	<18		27	18	ug/Kg	☼	05/05/17 15:52	05/11/17 00:17	1
1,2,4-Trimethylbenzene	16	J	27	16	ug/Kg	☼	05/05/17 15:52	05/11/17 00:17	1
1,3,5-Trimethylbenzene	<16		27	16	ug/Kg	☼	05/05/17 15:52	05/11/17 00:17	1
Xylenes, Total	<32		80	32	ug/Kg	☼	05/05/17 15:52	05/11/17 00:17	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	90		80 - 120	05/05/17 15:52	05/11/17 00:17	1

Client Sample ID: GP-20 (6-8)

Date Collected: 05/02/17 12:25

Date Received: 05/03/17 09:00

Lab Sample ID: 500-127508-18

Matrix: Solid

Percent Solids: 90.1

Method: WDNR - Wisconsin - Gasoline Range Organics (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<20		27	20	ug/Kg	☼	05/05/17 15:52	05/11/17 00:44	1
Ethylbenzene	<21		27	21	ug/Kg	☼	05/05/17 15:52	05/11/17 00:44	1
Methyl tert-butyl ether	<13		27	13	ug/Kg	☼	05/05/17 15:52	05/11/17 00:44	1
Naphthalene	<130		270	130	ug/Kg	☼	05/05/17 15:52	05/11/17 00:44	1
Toluene	<19		27	19	ug/Kg	☼	05/05/17 15:52	05/11/17 00:44	1
1,2,4-Trimethylbenzene	<16		27	16	ug/Kg	☼	05/05/17 15:52	05/11/17 00:44	1
1,3,5-Trimethylbenzene	<16		27	16	ug/Kg	☼	05/05/17 15:52	05/11/17 00:44	1
Xylenes, Total	<33		82	33	ug/Kg	☼	05/05/17 15:52	05/11/17 00:44	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	88		80 - 120	05/05/17 15:52	05/11/17 00:44	1

TestAmerica Chicago

Client Sample Results

Client: TRC Environmental Corporation.
Project/Site: STH 11 Kentucky to Kearney - 275788

TestAmerica Job ID: 500-127508-1

Client Sample ID: GP-20 (14-16)

Date Collected: 05/02/17 12:30

Date Received: 05/03/17 09:00

Lab Sample ID: 500-127508-19

Matrix: Solid

Percent Solids: 86.6

Method: WDNR - Wisconsin - Gasoline Range Organics (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	79		30	21	ug/Kg	☼	05/05/17 15:52	05/11/17 12:11	1
Ethylbenzene	<23		30	23	ug/Kg	☼	05/05/17 15:52	05/11/17 12:11	1
Methyl tert-butyl ether	<14		30	14	ug/Kg	☼	05/05/17 15:52	05/11/17 12:11	1
Naphthalene	440		300	140	ug/Kg	☼	05/05/17 15:52	05/11/17 12:11	1
Toluene	<20		30	20	ug/Kg	☼	05/05/17 15:52	05/11/17 12:11	1
1,2,4-Trimethylbenzene	<18		30	18	ug/Kg	☼	05/05/17 15:52	05/11/17 12:11	1
1,3,5-Trimethylbenzene	25	J	30	18	ug/Kg	☼	05/05/17 15:52	05/11/17 12:11	1
Xylenes, Total	36	J	89	36	ug/Kg	☼	05/05/17 15:52	05/11/17 12:11	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	86		80 - 120				05/05/17 15:52	05/11/17 12:11	1

Client Sample ID: GP-21 (2-4)

Date Collected: 05/02/17 12:50

Date Received: 05/03/17 09:00

Lab Sample ID: 500-127508-20

Matrix: Solid

Percent Solids: 80.8

Method: WDNR - Wisconsin - Gasoline Range Organics (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	94		31	22	ug/Kg	☼	05/05/17 15:52	05/11/17 09:30	1
Ethylbenzene	35		31	24	ug/Kg	☼	05/05/17 15:52	05/11/17 09:30	1
Methyl tert-butyl ether	160		31	15	ug/Kg	☼	05/05/17 15:52	05/11/17 09:30	1
Naphthalene	510		310	150	ug/Kg	☼	05/05/17 15:52	05/11/17 09:30	1
Toluene	25	J	31	21	ug/Kg	☼	05/05/17 15:52	05/11/17 09:30	1
1,2,4-Trimethylbenzene	62		31	19	ug/Kg	☼	05/05/17 15:52	05/11/17 09:30	1
1,3,5-Trimethylbenzene	<19		31	19	ug/Kg	☼	05/05/17 15:52	05/11/17 09:30	1
Xylenes, Total	61	J	94	37	ug/Kg	☼	05/05/17 15:52	05/11/17 09:30	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	98		80 - 120				05/05/17 15:52	05/11/17 09:30	1

Client Sample ID: GP-21 (6-8)

Date Collected: 05/02/17 12:55

Date Received: 05/03/17 09:00

Lab Sample ID: 500-127508-21

Matrix: Solid

Percent Solids: 81.1

Method: WDNR - Wisconsin - Gasoline Range Organics (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trimethylbenzene	2600		31	19	ug/Kg	☼	05/05/17 15:52	05/11/17 10:51	1
1,3,5-Trimethylbenzene	1000		31	19	ug/Kg	☼	05/05/17 15:52	05/11/17 10:51	1
Benzene	610		31	23	ug/Kg	☼	05/05/17 15:52	05/11/17 10:51	1
Ethylbenzene	7200		31	24	ug/Kg	☼	05/05/17 15:52	05/11/17 10:51	1
Methyl tert-butyl ether	17	J	31	15	ug/Kg	☼	05/05/17 15:52	05/11/17 10:51	1
Naphthalene	55000		6300	3000	ug/Kg	☼	05/05/17 15:52	05/11/17 10:24	20
Toluene	590		31	21	ug/Kg	☼	05/05/17 15:52	05/11/17 10:51	1
Xylenes, Total	2500		94	38	ug/Kg	☼	05/05/17 15:52	05/11/17 10:51	1
Wisconsin GRO	200000		130000	63000	ug/Kg	☼	05/05/17 15:52	05/11/17 10:24	20
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	125	X	80 - 120				05/05/17 15:52	05/11/17 10:24	20
a,a,a-Trifluorotoluene	88		80 - 120				05/05/17 15:52	05/11/17 10:24	20
a,a,a-Trifluorotoluene	173	X	80 - 120				05/05/17 15:52	05/11/17 10:51	1

TestAmerica Chicago

Client Sample Results

Client: TRC Environmental Corporation.
Project/Site: STH 11 Kentucky to Kearney - 275788

TestAmerica Job ID: 500-127508-1

Client Sample ID: GP-22 (2-4)

Lab Sample ID: 500-127508-22

Date Collected: 05/02/17 13:35

Matrix: Solid

Date Received: 05/03/17 09:00

Percent Solids: 85.9

Method: WDNR - Wisconsin - Gasoline Range Organics (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<24		33	24	ug/Kg	☼	05/05/17 15:52	05/11/17 02:31	1
Ethylbenzene	<25		33	25	ug/Kg	☼	05/05/17 15:52	05/11/17 02:31	1
Methyl tert-butyl ether	<16		33	16	ug/Kg	☼	05/05/17 15:52	05/11/17 02:31	1
Naphthalene	<160		330	160	ug/Kg	☼	05/05/17 15:52	05/11/17 09:57	1
Toluene	<22		33	22	ug/Kg	☼	05/05/17 15:52	05/11/17 02:31	1
1,2,4-Trimethylbenzene	91		33	20	ug/Kg	☼	05/05/17 15:52	05/11/17 02:31	1
1,3,5-Trimethylbenzene	<20		33	20	ug/Kg	☼	05/05/17 15:52	05/11/17 02:31	1
Xylenes, Total	<40		99	40	ug/Kg	☼	05/05/17 15:52	05/11/17 02:31	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>a,a,a-Trifluorotoluene</i>	81		80 - 120	05/05/17 15:52	05/11/17 02:31	1
<i>a,a,a-Trifluorotoluene</i>	89		80 - 120	05/05/17 15:52	05/11/17 09:57	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	44		0.50	0.23	mg/Kg	☼	05/06/17 11:05	05/11/17 04:54	1

Client Sample ID: GP-22 (6-8)

Lab Sample ID: 500-127508-23

Date Collected: 05/02/17 13:40

Matrix: Solid

Date Received: 05/03/17 09:00

Percent Solids: 93.6

Method: WDNR - Wisconsin - Gasoline Range Organics (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<17		23	17	ug/Kg	☼	05/05/17 15:52	05/11/17 02:58	1
Ethylbenzene	<18		23	18	ug/Kg	☼	05/05/17 15:52	05/11/17 02:58	1
Methyl tert-butyl ether	<11		23	11	ug/Kg	☼	05/05/17 15:52	05/11/17 02:58	1
Naphthalene	<110		230	110	ug/Kg	☼	05/05/17 15:52	05/11/17 02:58	1
Toluene	<16		23	16	ug/Kg	☼	05/05/17 15:52	05/11/17 02:58	1
1,2,4-Trimethylbenzene	<14		23	14	ug/Kg	☼	05/05/17 15:52	05/11/17 02:58	1
1,3,5-Trimethylbenzene	<14		23	14	ug/Kg	☼	05/05/17 15:52	05/11/17 02:58	1
Xylenes, Total	<28		70	28	ug/Kg	☼	05/05/17 15:52	05/11/17 02:58	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>a,a,a-Trifluorotoluene</i>	88		80 - 120	05/05/17 15:52	05/11/17 02:58	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	9.4		0.48	0.22	mg/Kg	☼	05/06/17 11:05	05/11/17 04:57	1

Client Sample ID: GP-23 (2-4)

Lab Sample ID: 500-127508-24

Date Collected: 05/02/17 13:50

Matrix: Solid

Date Received: 05/03/17 09:00

Percent Solids: 89.0

Method: WDNR - Wisconsin - Gasoline Range Organics (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<21		29	21	ug/Kg	☼	05/05/17 15:52	05/11/17 03:25	1
Ethylbenzene	<22		29	22	ug/Kg	☼	05/05/17 15:52	05/11/17 03:25	1
Methyl tert-butyl ether	<14		29	14	ug/Kg	☼	05/05/17 15:52	05/11/17 03:25	1
Naphthalene	<140		290	140	ug/Kg	☼	05/05/17 15:52	05/11/17 03:25	1
Toluene	<19		29	19	ug/Kg	☼	05/05/17 15:52	05/11/17 03:25	1
1,2,4-Trimethylbenzene	<17		29	17	ug/Kg	☼	05/05/17 15:52	05/11/17 03:25	1

TestAmerica Chicago

Client Sample Results

Client: TRC Environmental Corporation.
Project/Site: STH 11 Kentucky to Kearney - 275788

TestAmerica Job ID: 500-127508-1

Client Sample ID: GP-23 (2-4)

Lab Sample ID: 500-127508-24

Date Collected: 05/02/17 13:50

Matrix: Solid

Date Received: 05/03/17 09:00

Percent Solids: 89.0

Method: WDNR - Wisconsin - Gasoline Range Organics (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3,5-Trimethylbenzene	<17		29	17	ug/Kg	☼	05/05/17 15:52	05/11/17 03:25	1
Xylenes, Total	<34		86	34	ug/Kg	☼	05/05/17 15:52	05/11/17 03:25	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	87		80 - 120				05/05/17 15:52	05/11/17 03:25	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	8.9		0.51	0.23	mg/Kg	☼	05/06/17 11:05	05/11/17 05:01	1

Client Sample ID: GP-23 (6-8)

Lab Sample ID: 500-127508-25

Date Collected: 05/02/17 13:05

Matrix: Solid

Date Received: 05/03/17 09:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	<0.010		0.020	0.010	mg/L			05/09/17 02:01	20
1,2-Dichloroethane	<0.010		0.020	0.010	mg/L			05/09/17 02:01	20
Benzene	<0.010		0.020	0.010	mg/L			05/09/17 02:01	20
Carbon tetrachloride	<0.010		0.020	0.010	mg/L			05/09/17 02:01	20
Chlorobenzene	<0.010		0.020	0.010	mg/L			05/09/17 02:01	20
Chloroform	<0.020		0.040	0.020	mg/L			05/09/17 02:01	20
Methyl Ethyl Ketone	<0.050		0.10	0.050	mg/L			05/09/17 02:01	20
Tetrachloroethene	<0.010		0.020	0.010	mg/L			05/09/17 02:01	20
Trichloroethene	<0.010		0.020	0.010	mg/L			05/09/17 02:01	20
Vinyl chloride	<0.010		0.020	0.010	mg/L			05/09/17 02:01	20
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	100		75 - 126					05/09/17 02:01	20
4-Bromofluorobenzene (Surr)	109		72 - 124					05/09/17 02:01	20
Dibromofluoromethane	84		75 - 120					05/09/17 02:01	20
Toluene-d8 (Surr)	103		75 - 120					05/09/17 02:01	20

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	<0.020		0.020	0.020	mg/L		05/08/17 07:42	05/08/17 18:41	1
2,4,5-Trichlorophenol	<0.10		0.10	0.10	mg/L		05/08/17 07:42	05/08/17 18:41	1
2,4,6-Trichlorophenol	<0.050		0.050	0.050	mg/L		05/08/17 07:42	05/08/17 18:41	1
2,4-Dinitrotoluene	<0.010		0.010	0.010	mg/L		05/08/17 07:42	05/08/17 18:41	1
2-Methylphenol	<0.020		0.020	0.020	mg/L		05/08/17 07:42	05/08/17 18:41	1
3 & 4 Methylphenol	<0.020		0.020	0.020	mg/L		05/08/17 07:42	05/08/17 18:41	1
Hexachlorobenzene	<0.0050		0.0050	0.0050	mg/L		05/08/17 07:42	05/08/17 18:41	1
Hexachlorobutadiene	<0.050		0.050	0.050	mg/L		05/08/17 07:42	05/08/17 18:41	1
Hexachloroethane	<0.050		0.050	0.050	mg/L		05/08/17 07:42	05/08/17 18:41	1
Nitrobenzene	<0.010		0.010	0.010	mg/L		05/08/17 07:42	05/08/17 18:41	1
Pentachlorophenol	<0.20		0.20	0.20	mg/L		05/08/17 07:42	05/08/17 18:41	1
Pyridine	<0.20		0.20	0.20	mg/L		05/08/17 07:42	05/08/17 18:41	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	91		40 - 145				05/08/17 07:42	05/08/17 18:41	1
2-Fluorobiphenyl	90		34 - 110				05/08/17 07:42	05/08/17 18:41	1

TestAmerica Chicago

Client Sample Results

Client: TRC Environmental Corporation.
Project/Site: STH 11 Kentucky to Kearney - 275788

TestAmerica Job ID: 500-127508-1

Client Sample ID: GP-23 (6-8)

Lab Sample ID: 500-127508-25

Date Collected: 05/02/17 13:05

Matrix: Solid

Date Received: 05/03/17 09:00

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol (Surr)	62		27 - 110	05/08/17 07:42	05/08/17 18:41	1
Nitrobenzene-d5 (Surr)	99		36 - 120	05/08/17 07:42	05/08/17 18:41	1
Phenol-d5 (Surr)	43		20 - 100	05/08/17 07:42	05/08/17 18:41	1
Terphenyl-d14 (Surr)	108		40 - 145	05/08/17 07:42	05/08/17 18:41	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.010		0.050	0.010	mg/L		05/08/17 08:10	05/08/17 21:55	1
Barium	0.44	J	0.50	0.050	mg/L		05/08/17 08:10	05/08/17 21:55	1
Cadmium	<0.0020		0.0050	0.0020	mg/L		05/08/17 08:10	05/08/17 21:55	1
Chromium	<0.010		0.025	0.010	mg/L		05/08/17 08:10	05/08/17 21:55	1
Copper	<0.010		0.025	0.010	mg/L		05/08/17 08:10	05/08/17 21:55	1
Lead	<0.0075		0.050	0.0075	mg/L		05/08/17 08:10	05/08/17 21:55	1
Nickel	0.022	J	0.025	0.010	mg/L		05/08/17 08:10	05/08/17 21:55	1
Selenium	<0.020		0.050	0.020	mg/L		05/08/17 08:10	05/08/17 21:55	1
Silver	<0.010		0.025	0.010	mg/L		05/08/17 08:10	05/08/17 21:55	1
Zinc	<0.020		0.10	0.020	mg/L		05/08/17 08:10	05/08/17 21:55	1

Method: 7470A - Mercury (CVAA) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		05/08/17 13:40	05/09/17 10:16	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Flashpoint	>176		40.0	40.0	Degrees F			05/15/17 14:30	1
Cyanide, Total	0.28	J	0.41	0.14	mg/Kg		05/15/17 17:10	05/15/17 20:21	1
Sulfide	<4.6		9.8	4.6	mg/Kg		05/15/17 17:36	05/15/17 21:53	1
pH	9.0		0.2	0.2	SU			05/09/17 16:08	1
Paint Filter	PASS				No Unit			05/15/17 21:43	1
Specific Gravity	2.2442				NONE			05/12/17 22:19	1

Client Sample ID: GP-23 (6-8)

Lab Sample ID: 500-127508-25

Date Collected: 05/02/17 13:05

Matrix: Solid

Date Received: 05/03/17 09:00

Percent Solids: 85.3

Method: WDNR - Wisconsin - Gasoline Range Organics (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trimethylbenzene	<17		29	17	ug/Kg	☼	05/05/17 15:52	05/11/17 06:59	1
1,3,5-Trimethylbenzene	<17		29	17	ug/Kg	☼	05/05/17 15:52	05/11/17 06:59	1
Benzene	<21		29	21	ug/Kg	☼	05/05/17 15:52	05/11/17 06:59	1
Ethylbenzene	<22		29	22	ug/Kg	☼	05/05/17 15:52	05/11/17 06:59	1
Methyl tert-butyl ether	<14		29	14	ug/Kg	☼	05/05/17 15:52	05/11/17 06:59	1
Naphthalene	170	J	290	140	ug/Kg	☼	05/05/17 15:52	05/11/17 06:59	1
Toluene	<20		29	20	ug/Kg	☼	05/05/17 15:52	05/11/17 06:59	1
Xylenes, Total	<35		87	35	ug/Kg	☼	05/05/17 15:52	05/11/17 06:59	1
Wisconsin GRO	<2900		5800	2900	ug/Kg	☼	05/05/17 15:52	05/11/17 06:59	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	87		80 - 120	05/05/17 15:52	05/11/17 06:59	1
a,a,a-Trifluorotoluene	97		80 - 120	05/05/17 15:52	05/11/17 06:59	1

TestAmerica Chicago

Client Sample Results

Client: TRC Environmental Corporation.
Project/Site: STH 11 Kentucky to Kearney - 275788

TestAmerica Job ID: 500-127508-1

Client Sample ID: GP-23 (6-8)

Date Collected: 05/02/17 13:05

Date Received: 05/03/17 09:00

Lab Sample ID: 500-127508-25

Matrix: Solid

Percent Solids: 86.8

Method: 8082A - 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	☼	05/09/17 16:38	05/10/17 14:21	1
PCB-1221	<8.0		18	8.0	ug/Kg	☼	05/09/17 16:38	05/10/17 14:21	1
PCB-1232	<8.0		18	8.0	ug/Kg	☼	05/09/17 16:38	05/10/17 14:21	1
PCB-1242	<6.0		18	6.0	ug/Kg	☼	05/09/17 16:38	05/10/17 14:21	1
PCB-1248	<7.2		18	7.2	ug/Kg	☼	05/09/17 16:38	05/10/17 14:21	1
PCB-1254	<3.9		18	3.9	ug/Kg	☼	05/09/17 16:38	05/10/17 14:21	1
PCB-1260	<9.0		18	9.0	ug/Kg	☼	05/09/17 16:38	05/10/17 14:21	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	67		49 - 129	05/09/17 16:38	05/10/17 14:21	1
DCB Decachlorobiphenyl	71		37 - 121	05/09/17 16:38	05/10/17 14:21	1

Method: WI-DRO - Wisconsin - Diesel Range Organics (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
WI Diesel Range Organics (C10-C28)	<1.8		4.5	1.8	mg/Kg	☼	05/04/17 11:15	05/05/17 17:25	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
n-Nonane	76		44 - 148	05/04/17 11:15	05/05/17 17:25	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	7.7		0.50	0.23	mg/Kg	☼	05/06/17 11:05	05/11/17 05:06	1

Client Sample ID: GP-24 (2-4)

Date Collected: 05/02/17 14:15

Date Received: 05/03/17 09:00

Lab Sample ID: 500-127508-26

Matrix: Solid

Percent Solids: 86.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<30		66	30	ug/Kg	☼	05/02/17 14:15	05/16/17 06:37	50
1,1,1-Trichloroethane	<25		66	25	ug/Kg	☼	05/02/17 14:15	05/16/17 06:37	50
1,1,2,2-Tetrachloroethane	<26		66	26	ug/Kg	☼	05/02/17 14:15	05/16/17 06:37	50
1,1,2-Trichloroethane	<23		66	23	ug/Kg	☼	05/02/17 14:15	05/16/17 06:37	50
1,1-Dichloroethane	<27 *		66	27	ug/Kg	☼	05/02/17 14:15	05/16/17 06:37	50
1,1-Dichloroethene	<26 *		66	26	ug/Kg	☼	05/02/17 14:15	05/16/17 06:37	50
1,1-Dichloropropene	<20		66	20	ug/Kg	☼	05/02/17 14:15	05/16/17 06:37	50
1,2,3-Trichlorobenzene	<30		66	30	ug/Kg	☼	05/02/17 14:15	05/16/17 06:37	50
1,2,3-Trichloropropane	<27		66	27	ug/Kg	☼	05/02/17 14:15	05/16/17 06:37	50
1,2,4-Trichlorobenzene	<23		66	23	ug/Kg	☼	05/02/17 14:15	05/16/17 06:37	50
1,2,4-Trimethylbenzene	<24		66	24	ug/Kg	☼	05/02/17 14:15	05/16/17 06:37	50
1,2-Dibromo-3-Chloropropane	<130		330	130	ug/Kg	☼	05/02/17 14:15	05/16/17 06:37	50
1,2-Dibromoethane	<25		66	25	ug/Kg	☼	05/02/17 14:15	05/16/17 06:37	50
1,2-Dichlorobenzene	<22		66	22	ug/Kg	☼	05/02/17 14:15	05/16/17 06:37	50
1,2-Dichloroethane	<26		66	26	ug/Kg	☼	05/02/17 14:15	05/16/17 06:37	50
1,2-Dichloropropane	<28		66	28	ug/Kg	☼	05/02/17 14:15	05/16/17 06:37	50
1,3,5-Trimethylbenzene	<25		66	25	ug/Kg	☼	05/02/17 14:15	05/16/17 06:37	50
1,3-Dichlorobenzene	<26		66	26	ug/Kg	☼	05/02/17 14:15	05/16/17 06:37	50
1,3-Dichloropropane	<24		66	24	ug/Kg	☼	05/02/17 14:15	05/16/17 06:37	50
1,4-Dichlorobenzene	<24		66	24	ug/Kg	☼	05/02/17 14:15	05/16/17 06:37	50
2,2-Dichloropropane	<29		66	29	ug/Kg	☼	05/02/17 14:15	05/16/17 06:37	50
2-Chlorotoluene	<21		66	21	ug/Kg	☼	05/02/17 14:15	05/16/17 06:37	50

TestAmerica Chicago

Client Sample Results

Client: TRC Environmental Corporation.
Project/Site: STH 11 Kentucky to Kearney - 275788

TestAmerica Job ID: 500-127508-1

Client Sample ID: GP-24 (2-4)

Lab Sample ID: 500-127508-26

Date Collected: 05/02/17 14:15

Matrix: Solid

Date Received: 05/03/17 09:00

Percent Solids: 86.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Chlorotoluene	<23		66	23	ug/Kg	☼	05/02/17 14:15	05/16/17 06:37	50
Benzene	<9.6		16	9.6	ug/Kg	☼	05/02/17 14:15	05/16/17 06:37	50
Bromobenzene	<23		66	23	ug/Kg	☼	05/02/17 14:15	05/16/17 06:37	50
Bromochloromethane	<28 *		66	28	ug/Kg	☼	05/02/17 14:15	05/16/17 06:37	50
Bromodichloromethane	<25		66	25	ug/Kg	☼	05/02/17 14:15	05/16/17 06:37	50
Bromoform	<32		66	32	ug/Kg	☼	05/02/17 14:15	05/16/17 06:37	50
Bromomethane	<52		130	52	ug/Kg	☼	05/02/17 14:15	05/16/17 06:37	50
Carbon tetrachloride	<25		66	25	ug/Kg	☼	05/02/17 14:15	05/16/17 06:37	50
Chlorobenzene	<25		66	25	ug/Kg	☼	05/02/17 14:15	05/16/17 06:37	50
Chloroethane	<33		66	33	ug/Kg	☼	05/02/17 14:15	05/16/17 06:37	50
Chloroform	<24 *		130	24	ug/Kg	☼	05/02/17 14:15	05/16/17 06:37	50
Chloromethane	<21		66	21	ug/Kg	☼	05/02/17 14:15	05/16/17 06:37	50
cis-1,2-Dichloroethene	<27 *		66	27	ug/Kg	☼	05/02/17 14:15	05/16/17 06:37	50
cis-1,3-Dichloropropene	<27		66	27	ug/Kg	☼	05/02/17 14:15	05/16/17 06:37	50
Dibromochloromethane	<32		66	32	ug/Kg	☼	05/02/17 14:15	05/16/17 06:37	50
Dibromomethane	<18		66	18	ug/Kg	☼	05/02/17 14:15	05/16/17 06:37	50
Dichlorodifluoromethane	<44		130	44	ug/Kg	☼	05/02/17 14:15	05/16/17 06:37	50
Ethylbenzene	<12		16	12	ug/Kg	☼	05/02/17 14:15	05/16/17 06:37	50
Hexachlorobutadiene	<29		66	29	ug/Kg	☼	05/02/17 14:15	05/16/17 06:37	50
Isopropyl ether	<18		66	18	ug/Kg	☼	05/02/17 14:15	05/16/17 06:37	50
Isopropylbenzene	<25		66	25	ug/Kg	☼	05/02/17 14:15	05/16/17 06:37	50
Methyl tert-butyl ether	<26 *		66	26	ug/Kg	☼	05/02/17 14:15	05/16/17 06:37	50
Methylene Chloride	<110 *		330	110	ug/Kg	☼	05/02/17 14:15	05/16/17 06:37	50
Naphthalene	<22 *		66	22	ug/Kg	☼	05/02/17 14:15	05/16/17 06:37	50
n-Butylbenzene	<26		66	26	ug/Kg	☼	05/02/17 14:15	05/16/17 06:37	50
N-Propylbenzene	<27		66	27	ug/Kg	☼	05/02/17 14:15	05/16/17 06:37	50
p-Isopropyltoluene	<24		66	24	ug/Kg	☼	05/02/17 14:15	05/16/17 06:37	50
sec-Butylbenzene	<26		66	26	ug/Kg	☼	05/02/17 14:15	05/16/17 06:37	50
Styrene	<25 *		66	25	ug/Kg	☼	05/02/17 14:15	05/16/17 06:37	50
tert-Butylbenzene	<26		66	26	ug/Kg	☼	05/02/17 14:15	05/16/17 06:37	50
Tetrachloroethene	<24		66	24	ug/Kg	☼	05/02/17 14:15	05/16/17 06:37	50
Toluene	<9.7		16	9.7	ug/Kg	☼	05/02/17 14:15	05/16/17 06:37	50
trans-1,2-Dichloroethene	<23 *		66	23	ug/Kg	☼	05/02/17 14:15	05/16/17 06:37	50
trans-1,3-Dichloropropene	<24		66	24	ug/Kg	☼	05/02/17 14:15	05/16/17 06:37	50
Trichloroethene	<11		33	11	ug/Kg	☼	05/02/17 14:15	05/16/17 06:37	50
Trichlorofluoromethane	<28 *		66	28	ug/Kg	☼	05/02/17 14:15	05/16/17 06:37	50
Vinyl chloride	<17 *		33	17	ug/Kg	☼	05/02/17 14:15	05/16/17 06:37	50
Xylenes, Total	<15		33	15	ug/Kg	☼	05/02/17 14:15	05/16/17 06:37	50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	103		75 - 126	05/02/17 14:15	05/16/17 06:37	50
4-Bromofluorobenzene (Surr)	107		72 - 124	05/02/17 14:15	05/16/17 06:37	50
Dibromofluoromethane	88		75 - 120	05/02/17 14:15	05/16/17 06:37	50
Toluene-d8 (Surr)	93		75 - 120	05/02/17 14:15	05/16/17 06:37	50

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	27	V F1	0.54	0.25	mg/Kg	☼	05/06/17 11:07	05/10/17 18:27	1

TestAmerica Chicago

Client Sample Results

Client: TRC Environmental Corporation.
Project/Site: STH 11 Kentucky to Kearney - 275788

TestAmerica Job ID: 500-127508-1

Client Sample ID: GP-24 (6-8)

Lab Sample ID: 500-127508-27

Date Collected: 05/02/17 14:20

Matrix: Solid

Date Received: 05/03/17 09:00

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	<31		67	31	ug/Kg	☼	05/02/17 14:20	05/16/17 07:03	50
1,1,1-Trichloroethane	<26		67	26	ug/Kg	☼	05/02/17 14:20	05/16/17 07:03	50
1,1,2,2-Tetrachloroethane	<27		67	27	ug/Kg	☼	05/02/17 14:20	05/16/17 07:03	50
1,1,2-Trichloroethane	<24		67	24	ug/Kg	☼	05/02/17 14:20	05/16/17 07:03	50
1,1-Dichloroethane	<28 *		67	28	ug/Kg	☼	05/02/17 14:20	05/16/17 07:03	50
1,1-Dichloroethene	<26 *		67	26	ug/Kg	☼	05/02/17 14:20	05/16/17 07:03	50
1,1-Dichloropropene	<20		67	20	ug/Kg	☼	05/02/17 14:20	05/16/17 07:03	50
1,2,3-Trichlorobenzene	<31		67	31	ug/Kg	☼	05/02/17 14:20	05/16/17 07:03	50
1,2,3-Trichloropropane	<28		67	28	ug/Kg	☼	05/02/17 14:20	05/16/17 07:03	50
1,2,4-Trichlorobenzene	<23		67	23	ug/Kg	☼	05/02/17 14:20	05/16/17 07:03	50
1,2,4-Trimethylbenzene	<24		67	24	ug/Kg	☼	05/02/17 14:20	05/16/17 07:03	50
1,2-Dibromo-3-Chloropropane	<130		340	130	ug/Kg	☼	05/02/17 14:20	05/16/17 07:03	50
1,2-Dibromoethane	<26		67	26	ug/Kg	☼	05/02/17 14:20	05/16/17 07:03	50
1,2-Dichlorobenzene	<23		67	23	ug/Kg	☼	05/02/17 14:20	05/16/17 07:03	50
1,2-Dichloroethane	<26		67	26	ug/Kg	☼	05/02/17 14:20	05/16/17 07:03	50
1,2-Dichloropropane	<29		67	29	ug/Kg	☼	05/02/17 14:20	05/16/17 07:03	50
1,3,5-Trimethylbenzene	<26		67	26	ug/Kg	☼	05/02/17 14:20	05/16/17 07:03	50
1,3-Dichlorobenzene	<27		67	27	ug/Kg	☼	05/02/17 14:20	05/16/17 07:03	50
1,3-Dichloropropane	<24		67	24	ug/Kg	☼	05/02/17 14:20	05/16/17 07:03	50
1,4-Dichlorobenzene	<25		67	25	ug/Kg	☼	05/02/17 14:20	05/16/17 07:03	50
2,2-Dichloropropane	<30		67	30	ug/Kg	☼	05/02/17 14:20	05/16/17 07:03	50
2-Chlorotoluene	<21		67	21	ug/Kg	☼	05/02/17 14:20	05/16/17 07:03	50
4-Chlorotoluene	<24		67	24	ug/Kg	☼	05/02/17 14:20	05/16/17 07:03	50
Benzene	<9.8		17	9.8	ug/Kg	☼	05/02/17 14:20	05/16/17 07:03	50
Bromobenzene	<24		67	24	ug/Kg	☼	05/02/17 14:20	05/16/17 07:03	50
Bromochloromethane	<29 *		67	29	ug/Kg	☼	05/02/17 14:20	05/16/17 07:03	50
Bromodichloromethane	<25		67	25	ug/Kg	☼	05/02/17 14:20	05/16/17 07:03	50
Bromoform	<33		67	33	ug/Kg	☼	05/02/17 14:20	05/16/17 07:03	50
Bromomethane	<54		130	54	ug/Kg	☼	05/02/17 14:20	05/16/17 07:03	50
Carbon tetrachloride	<26		67	26	ug/Kg	☼	05/02/17 14:20	05/16/17 07:03	50
Chlorobenzene	<26		67	26	ug/Kg	☼	05/02/17 14:20	05/16/17 07:03	50
Chloroethane	<34		67	34	ug/Kg	☼	05/02/17 14:20	05/16/17 07:03	50
Chloroform	<25 *		130	25	ug/Kg	☼	05/02/17 14:20	05/16/17 07:03	50
Chloromethane	<22		67	22	ug/Kg	☼	05/02/17 14:20	05/16/17 07:03	50
cis-1,2-Dichloroethene	<27 *		67	27	ug/Kg	☼	05/02/17 14:20	05/16/17 07:03	50
cis-1,3-Dichloropropene	<28		67	28	ug/Kg	☼	05/02/17 14:20	05/16/17 07:03	50
Dibromochloromethane	<33		67	33	ug/Kg	☼	05/02/17 14:20	05/16/17 07:03	50
Dibromomethane	<18		67	18	ug/Kg	☼	05/02/17 14:20	05/16/17 07:03	50
Dichlorodifluoromethane	<45		130	45	ug/Kg	☼	05/02/17 14:20	05/16/17 07:03	50
Ethylbenzene	<12		17	12	ug/Kg	☼	05/02/17 14:20	05/16/17 07:03	50
Hexachlorobutadiene	<30		67	30	ug/Kg	☼	05/02/17 14:20	05/16/17 07:03	50
Isopropyl ether	<19		67	19	ug/Kg	☼	05/02/17 14:20	05/16/17 07:03	50
Isopropylbenzene	<26		67	26	ug/Kg	☼	05/02/17 14:20	05/16/17 07:03	50
Methyl tert-butyl ether	<27 *		67	27	ug/Kg	☼	05/02/17 14:20	05/16/17 07:03	50
Methylene Chloride	<110 *		340	110	ug/Kg	☼	05/02/17 14:20	05/16/17 07:03	50
Naphthalene	<23 *		67	23	ug/Kg	☼	05/02/17 14:20	05/16/17 07:03	50
n-Butylbenzene	<26		67	26	ug/Kg	☼	05/02/17 14:20	05/16/17 07:03	50
N-Propylbenzene	<28		67	28	ug/Kg	☼	05/02/17 14:20	05/16/17 07:03	50
p-Isopropyltoluene	<24		67	24	ug/Kg	☼	05/02/17 14:20	05/16/17 07:03	50

TestAmerica Chicago

Client Sample Results

Client: TRC Environmental Corporation.
Project/Site: STH 11 Kentucky to Kearney - 275788

TestAmerica Job ID: 500-127508-1

Client Sample ID: GP-24 (6-8)

Date Collected: 05/02/17 14:20

Date Received: 05/03/17 09:00

Lab Sample ID: 500-127508-27

Matrix: Solid

Percent Solids: 81.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	<27		67	27	ug/Kg	☼	05/02/17 14:20	05/16/17 07:03	50
Styrene	<26	*	67	26	ug/Kg	☼	05/02/17 14:20	05/16/17 07:03	50
tert-Butylbenzene	<27		67	27	ug/Kg	☼	05/02/17 14:20	05/16/17 07:03	50
Tetrachloroethene	<25		67	25	ug/Kg	☼	05/02/17 14:20	05/16/17 07:03	50
Toluene	<9.9		17	9.9	ug/Kg	☼	05/02/17 14:20	05/16/17 07:03	50
trans-1,2-Dichloroethene	<24	*	67	24	ug/Kg	☼	05/02/17 14:20	05/16/17 07:03	50
trans-1,3-Dichloropropene	<24		67	24	ug/Kg	☼	05/02/17 14:20	05/16/17 07:03	50
Trichloroethene	<11		34	11	ug/Kg	☼	05/02/17 14:20	05/16/17 07:03	50
Trichlorofluoromethane	<29	*	67	29	ug/Kg	☼	05/02/17 14:20	05/16/17 07:03	50
Vinyl chloride	<18	*	34	18	ug/Kg	☼	05/02/17 14:20	05/16/17 07:03	50
Xylenes, Total	<15		34	15	ug/Kg	☼	05/02/17 14:20	05/16/17 07:03	50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	105		75 - 126	05/02/17 14:20	05/16/17 07:03	50
4-Bromofluorobenzene (Surr)	106		72 - 124	05/02/17 14:20	05/16/17 07:03	50
Dibromofluoromethane	90		75 - 120	05/02/17 14:20	05/16/17 07:03	50
Toluene-d8 (Surr)	93		75 - 120	05/02/17 14:20	05/16/17 07:03	50

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	11		0.53	0.25	mg/Kg	☼	05/06/17 11:07	05/10/17 18:54	1

Client Sample ID: GP-25 (2-4)

Date Collected: 05/02/17 14:35

Date Received: 05/03/17 09:00

Lab Sample ID: 500-127508-28

Matrix: Solid

Percent Solids: 86.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<31		66	31	ug/Kg	☼	05/02/17 14:35	05/16/17 07:29	50
1,1,1-Trichloroethane	<25		66	25	ug/Kg	☼	05/02/17 14:35	05/16/17 07:29	50
1,1,2,2-Tetrachloroethane	<26		66	26	ug/Kg	☼	05/02/17 14:35	05/16/17 07:29	50
1,1,2-Trichloroethane	<23		66	23	ug/Kg	☼	05/02/17 14:35	05/16/17 07:29	50
1,1-Dichloroethane	<27	*	66	27	ug/Kg	☼	05/02/17 14:35	05/16/17 07:29	50
1,1-Dichloroethene	<26	*	66	26	ug/Kg	☼	05/02/17 14:35	05/16/17 07:29	50
1,1-Dichloropropene	<20		66	20	ug/Kg	☼	05/02/17 14:35	05/16/17 07:29	50
1,2,3-Trichlorobenzene	<30		66	30	ug/Kg	☼	05/02/17 14:35	05/16/17 07:29	50
1,2,3-Trichloropropane	<27		66	27	ug/Kg	☼	05/02/17 14:35	05/16/17 07:29	50
1,2,4-Trichlorobenzene	<23		66	23	ug/Kg	☼	05/02/17 14:35	05/16/17 07:29	50
1,2,4-Trimethylbenzene	<24		66	24	ug/Kg	☼	05/02/17 14:35	05/16/17 07:29	50
1,2-Dibromo-3-Chloropropane	<130		330	130	ug/Kg	☼	05/02/17 14:35	05/16/17 07:29	50
1,2-Dibromoethane	<26		66	26	ug/Kg	☼	05/02/17 14:35	05/16/17 07:29	50
1,2-Dichlorobenzene	<22		66	22	ug/Kg	☼	05/02/17 14:35	05/16/17 07:29	50
1,2-Dichloroethane	<26		66	26	ug/Kg	☼	05/02/17 14:35	05/16/17 07:29	50
1,2-Dichloropropane	<28		66	28	ug/Kg	☼	05/02/17 14:35	05/16/17 07:29	50
1,3,5-Trimethylbenzene	<25		66	25	ug/Kg	☼	05/02/17 14:35	05/16/17 07:29	50
1,3-Dichlorobenzene	<26		66	26	ug/Kg	☼	05/02/17 14:35	05/16/17 07:29	50
1,3-Dichloropropane	<24		66	24	ug/Kg	☼	05/02/17 14:35	05/16/17 07:29	50
1,4-Dichlorobenzene	<24		66	24	ug/Kg	☼	05/02/17 14:35	05/16/17 07:29	50
2,2-Dichloropropane	<29		66	29	ug/Kg	☼	05/02/17 14:35	05/16/17 07:29	50
2-Chlorotoluene	<21		66	21	ug/Kg	☼	05/02/17 14:35	05/16/17 07:29	50

TestAmerica Chicago

Client Sample Results

Client: TRC Environmental Corporation.
Project/Site: STH 11 Kentucky to Kearney - 275788

TestAmerica Job ID: 500-127508-1

Client Sample ID: GP-25 (2-4)

Lab Sample ID: 500-127508-28

Date Collected: 05/02/17 14:35

Matrix: Solid

Date Received: 05/03/17 09:00

Percent Solids: 86.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Chlorotoluene	<23		66	23	ug/Kg	☼	05/02/17 14:35	05/16/17 07:29	50
Benzene	<9.7		17	9.7	ug/Kg	☼	05/02/17 14:35	05/16/17 07:29	50
Bromobenzene	<24		66	24	ug/Kg	☼	05/02/17 14:35	05/16/17 07:29	50
Bromochloromethane	<28 *		66	28	ug/Kg	☼	05/02/17 14:35	05/16/17 07:29	50
Bromodichloromethane	<25		66	25	ug/Kg	☼	05/02/17 14:35	05/16/17 07:29	50
Bromoform	<32		66	32	ug/Kg	☼	05/02/17 14:35	05/16/17 07:29	50
Bromomethane	<53		130	53	ug/Kg	☼	05/02/17 14:35	05/16/17 07:29	50
Carbon tetrachloride	<25		66	25	ug/Kg	☼	05/02/17 14:35	05/16/17 07:29	50
Chlorobenzene	<26		66	26	ug/Kg	☼	05/02/17 14:35	05/16/17 07:29	50
Chloroethane	<33		66	33	ug/Kg	☼	05/02/17 14:35	05/16/17 07:29	50
Chloroform	<24 *		130	24	ug/Kg	☼	05/02/17 14:35	05/16/17 07:29	50
Chloromethane	<21		66	21	ug/Kg	☼	05/02/17 14:35	05/16/17 07:29	50
cis-1,2-Dichloroethene	<27 *		66	27	ug/Kg	☼	05/02/17 14:35	05/16/17 07:29	50
cis-1,3-Dichloropropene	<28		66	28	ug/Kg	☼	05/02/17 14:35	05/16/17 07:29	50
Dibromochloromethane	<32		66	32	ug/Kg	☼	05/02/17 14:35	05/16/17 07:29	50
Dibromomethane	<18		66	18	ug/Kg	☼	05/02/17 14:35	05/16/17 07:29	50
Dichlorodifluoromethane	<45		130	45	ug/Kg	☼	05/02/17 14:35	05/16/17 07:29	50
Ethylbenzene	<12		17	12	ug/Kg	☼	05/02/17 14:35	05/16/17 07:29	50
Hexachlorobutadiene	<30		66	30	ug/Kg	☼	05/02/17 14:35	05/16/17 07:29	50
Isopropyl ether	<18		66	18	ug/Kg	☼	05/02/17 14:35	05/16/17 07:29	50
Isopropylbenzene	<25		66	25	ug/Kg	☼	05/02/17 14:35	05/16/17 07:29	50
Methyl tert-butyl ether	<26 *		66	26	ug/Kg	☼	05/02/17 14:35	05/16/17 07:29	50
Methylene Chloride	<110 *		330	110	ug/Kg	☼	05/02/17 14:35	05/16/17 07:29	50
Naphthalene	<22 *		66	22	ug/Kg	☼	05/02/17 14:35	05/16/17 07:29	50
n-Butylbenzene	<26		66	26	ug/Kg	☼	05/02/17 14:35	05/16/17 07:29	50
N-Propylbenzene	<27		66	27	ug/Kg	☼	05/02/17 14:35	05/16/17 07:29	50
p-Isopropyltoluene	<24		66	24	ug/Kg	☼	05/02/17 14:35	05/16/17 07:29	50
sec-Butylbenzene	<26		66	26	ug/Kg	☼	05/02/17 14:35	05/16/17 07:29	50
Styrene	<26 *		66	26	ug/Kg	☼	05/02/17 14:35	05/16/17 07:29	50
tert-Butylbenzene	<26		66	26	ug/Kg	☼	05/02/17 14:35	05/16/17 07:29	50
Tetrachloroethene	<24		66	24	ug/Kg	☼	05/02/17 14:35	05/16/17 07:29	50
Toluene	<9.7		17	9.7	ug/Kg	☼	05/02/17 14:35	05/16/17 07:29	50
trans-1,2-Dichloroethene	<23 *		66	23	ug/Kg	☼	05/02/17 14:35	05/16/17 07:29	50
trans-1,3-Dichloropropene	<24		66	24	ug/Kg	☼	05/02/17 14:35	05/16/17 07:29	50
Trichloroethene	<11		33	11	ug/Kg	☼	05/02/17 14:35	05/16/17 07:29	50
Trichlorofluoromethane	<28 *		66	28	ug/Kg	☼	05/02/17 14:35	05/16/17 07:29	50
Vinyl chloride	<17 *		33	17	ug/Kg	☼	05/02/17 14:35	05/16/17 07:29	50
Xylenes, Total	<15		33	15	ug/Kg	☼	05/02/17 14:35	05/16/17 07:29	50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	100		75 - 126	05/02/17 14:35	05/16/17 07:29	50
4-Bromofluorobenzene (Surr)	106		72 - 124	05/02/17 14:35	05/16/17 07:29	50
Dibromofluoromethane	88		75 - 120	05/02/17 14:35	05/16/17 07:29	50
Toluene-d8 (Surr)	92		75 - 120	05/02/17 14:35	05/16/17 07:29	50

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	15		0.52	0.24	mg/Kg	☼	05/06/17 11:07	05/10/17 18:59	1

TestAmerica Chicago

Client Sample Results

Client: TRC Environmental Corporation.
Project/Site: STH 11 Kentucky to Kearney - 275788

TestAmerica Job ID: 500-127508-1

Client Sample ID: GP-25 (6-8)

Lab Sample ID: 500-127508-29

Date Collected: 05/02/17 14:40

Matrix: Solid

Date Received: 05/03/17 09:00

Percent Solids: 81.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<33		72	33	ug/Kg	☼	05/02/17 14:40	05/16/17 07:55	50
1,1,1-Trichloroethane	<27		72	27	ug/Kg	☼	05/02/17 14:40	05/16/17 07:55	50
1,1,1,2,2-Tetrachloroethane	<29		72	29	ug/Kg	☼	05/02/17 14:40	05/16/17 07:55	50
1,1,2-Trichloroethane	<25		72	25	ug/Kg	☼	05/02/17 14:40	05/16/17 07:55	50
1,1-Dichloroethane	<29 *		72	29	ug/Kg	☼	05/02/17 14:40	05/16/17 07:55	50
1,1-Dichloroethene	<28 *		72	28	ug/Kg	☼	05/02/17 14:40	05/16/17 07:55	50
1,1-Dichloropropene	<21		72	21	ug/Kg	☼	05/02/17 14:40	05/16/17 07:55	50
1,2,3-Trichlorobenzene	<33		72	33	ug/Kg	☼	05/02/17 14:40	05/16/17 07:55	50
1,2,3-Trichloropropane	<30		72	30	ug/Kg	☼	05/02/17 14:40	05/16/17 07:55	50
1,2,4-Trichlorobenzene	<25		72	25	ug/Kg	☼	05/02/17 14:40	05/16/17 07:55	50
1,2,4-Trimethylbenzene	<26		72	26	ug/Kg	☼	05/02/17 14:40	05/16/17 07:55	50
1,2-Dibromo-3-Chloropropane	<140		360	140	ug/Kg	☼	05/02/17 14:40	05/16/17 07:55	50
1,2-Dibromoethane	<28		72	28	ug/Kg	☼	05/02/17 14:40	05/16/17 07:55	50
1,2-Dichlorobenzene	<24		72	24	ug/Kg	☼	05/02/17 14:40	05/16/17 07:55	50
1,2-Dichloroethane	<28		72	28	ug/Kg	☼	05/02/17 14:40	05/16/17 07:55	50
1,2-Dichloropropane	<31		72	31	ug/Kg	☼	05/02/17 14:40	05/16/17 07:55	50
1,3,5-Trimethylbenzene	<27		72	27	ug/Kg	☼	05/02/17 14:40	05/16/17 07:55	50
1,3-Dichlorobenzene	<29		72	29	ug/Kg	☼	05/02/17 14:40	05/16/17 07:55	50
1,3-Dichloropropane	<26		72	26	ug/Kg	☼	05/02/17 14:40	05/16/17 07:55	50
1,4-Dichlorobenzene	<26		72	26	ug/Kg	☼	05/02/17 14:40	05/16/17 07:55	50
2,2-Dichloropropane	<32		72	32	ug/Kg	☼	05/02/17 14:40	05/16/17 07:55	50
2-Chlorotoluene	<23		72	23	ug/Kg	☼	05/02/17 14:40	05/16/17 07:55	50
4-Chlorotoluene	<25		72	25	ug/Kg	☼	05/02/17 14:40	05/16/17 07:55	50
Benzene	<10		18	10	ug/Kg	☼	05/02/17 14:40	05/16/17 07:55	50
Bromobenzene	<26		72	26	ug/Kg	☼	05/02/17 14:40	05/16/17 07:55	50
Bromochloromethane	<31 *		72	31	ug/Kg	☼	05/02/17 14:40	05/16/17 07:55	50
Bromodichloromethane	<27		72	27	ug/Kg	☼	05/02/17 14:40	05/16/17 07:55	50
Bromoform	<35		72	35	ug/Kg	☼	05/02/17 14:40	05/16/17 07:55	50
Bromomethane	<57		140	57	ug/Kg	☼	05/02/17 14:40	05/16/17 07:55	50
Carbon tetrachloride	<28		72	28	ug/Kg	☼	05/02/17 14:40	05/16/17 07:55	50
Chlorobenzene	<28		72	28	ug/Kg	☼	05/02/17 14:40	05/16/17 07:55	50
Chloroethane	<36		72	36	ug/Kg	☼	05/02/17 14:40	05/16/17 07:55	50
Chloroform	<27 *		140	27	ug/Kg	☼	05/02/17 14:40	05/16/17 07:55	50
Chloromethane	<23		72	23	ug/Kg	☼	05/02/17 14:40	05/16/17 07:55	50
cis-1,2-Dichloroethene	<29 *		72	29	ug/Kg	☼	05/02/17 14:40	05/16/17 07:55	50
cis-1,3-Dichloropropene	<30		72	30	ug/Kg	☼	05/02/17 14:40	05/16/17 07:55	50
Dibromochloromethane	<35		72	35	ug/Kg	☼	05/02/17 14:40	05/16/17 07:55	50
Dibromomethane	<19		72	19	ug/Kg	☼	05/02/17 14:40	05/16/17 07:55	50
Dichlorodifluoromethane	<48		140	48	ug/Kg	☼	05/02/17 14:40	05/16/17 07:55	50
Ethylbenzene	<13		18	13	ug/Kg	☼	05/02/17 14:40	05/16/17 07:55	50
Hexachlorobutadiene	<32		72	32	ug/Kg	☼	05/02/17 14:40	05/16/17 07:55	50
Isopropyl ether	<20		72	20	ug/Kg	☼	05/02/17 14:40	05/16/17 07:55	50
Isopropylbenzene	120		72	28	ug/Kg	☼	05/02/17 14:40	05/16/17 07:55	50
Methyl tert-butyl ether	<28 *		72	28	ug/Kg	☼	05/02/17 14:40	05/16/17 07:55	50
Methylene Chloride	<120 *		360	120	ug/Kg	☼	05/02/17 14:40	05/16/17 07:55	50
Naphthalene	150 *		72	24	ug/Kg	☼	05/02/17 14:40	05/16/17 07:55	50
n-Butylbenzene	<28		72	28	ug/Kg	☼	05/02/17 14:40	05/16/17 07:55	50
N-Propylbenzene	620		72	30	ug/Kg	☼	05/02/17 14:40	05/16/17 07:55	50
p-Isopropyltoluene	<26		72	26	ug/Kg	☼	05/02/17 14:40	05/16/17 07:55	50

TestAmerica Chicago

Client Sample Results

Client: TRC Environmental Corporation.
Project/Site: STH 11 Kentucky to Kearney - 275788

TestAmerica Job ID: 500-127508-1

Client Sample ID: GP-25 (6-8)

Lab Sample ID: 500-127508-29

Date Collected: 05/02/17 14:40

Matrix: Solid

Date Received: 05/03/17 09:00

Percent Solids: 81.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	<29		72	29	ug/Kg	☼	05/02/17 14:40	05/16/17 07:55	50
Styrene	<28	*	72	28	ug/Kg	☼	05/02/17 14:40	05/16/17 07:55	50
tert-Butylbenzene	<29		72	29	ug/Kg	☼	05/02/17 14:40	05/16/17 07:55	50
Tetrachloroethene	<27		72	27	ug/Kg	☼	05/02/17 14:40	05/16/17 07:55	50
Toluene	<11		18	11	ug/Kg	☼	05/02/17 14:40	05/16/17 07:55	50
trans-1,2-Dichloroethene	<25	*	72	25	ug/Kg	☼	05/02/17 14:40	05/16/17 07:55	50
trans-1,3-Dichloropropene	<26		72	26	ug/Kg	☼	05/02/17 14:40	05/16/17 07:55	50
Trichloroethene	<12		36	12	ug/Kg	☼	05/02/17 14:40	05/16/17 07:55	50
Trichlorofluoromethane	<31	*	72	31	ug/Kg	☼	05/02/17 14:40	05/16/17 07:55	50
Vinyl chloride	<19	*	36	19	ug/Kg	☼	05/02/17 14:40	05/16/17 07:55	50
Xylenes, Total	<16		36	16	ug/Kg	☼	05/02/17 14:40	05/16/17 07:55	50
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	103		75 - 126				05/02/17 14:40	05/16/17 07:55	50
4-Bromofluorobenzene (Surr)	103		72 - 124				05/02/17 14:40	05/16/17 07:55	50
Dibromofluoromethane	90		75 - 120				05/02/17 14:40	05/16/17 07:55	50
Toluene-d8 (Surr)	95		75 - 120				05/02/17 14:40	05/16/17 07:55	50

Method: WI-GRO - Wisconsin - Gasoline Range Organics (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
WI Gasoline Range Organics (C5-C10)	350000		43000	14000	ug/Kg	☼	05/02/17 14:40	05/07/17 22:05	1000

Method: WI-DRO - Wisconsin - Diesel Range Organics (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
WI Diesel Range Organics (C10-C28)	22		7.0	2.8	mg/Kg	☼	05/04/17 11:15	05/05/17 18:01	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
n-Nonane	86		44 - 148	05/04/17 11:15	05/05/17 18:01	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	26		0.55	0.26	mg/Kg	☼	05/06/17 11:07	05/10/17 19:03	1

Client Sample ID: Trip Blank

Lab Sample ID: 500-127508-30

Date Collected: 05/02/17 00:00

Matrix: Solid

Date Received: 05/03/17 09:00

Percent Solids: 100.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<23		50	23	ug/Kg	☼	05/02/17 00:00	05/16/17 01:22	50
1,1,1-Trichloroethane	<19		50	19	ug/Kg	☼	05/02/17 00:00	05/16/17 01:22	50
1,1,2,2-Tetrachloroethane	<20		50	20	ug/Kg	☼	05/02/17 00:00	05/16/17 01:22	50
1,1,2-Trichloroethane	<18		50	18	ug/Kg	☼	05/02/17 00:00	05/16/17 01:22	50
1,1-Dichloroethane	<21	*	50	21	ug/Kg	☼	05/02/17 00:00	05/16/17 01:22	50
1,1-Dichloroethene	<20	*	50	20	ug/Kg	☼	05/02/17 00:00	05/16/17 01:22	50
1,1-Dichloropropene	<15		50	15	ug/Kg	☼	05/02/17 00:00	05/16/17 01:22	50
1,2,3-Trichlorobenzene	<23		50	23	ug/Kg	☼	05/02/17 00:00	05/16/17 01:22	50
1,2,3-Trichloropropane	<21		50	21	ug/Kg	☼	05/02/17 00:00	05/16/17 01:22	50
1,2,4-Trichlorobenzene	<17		50	17	ug/Kg	☼	05/02/17 00:00	05/16/17 01:22	50

TestAmerica Chicago

Client Sample Results

Client: TRC Environmental Corporation.
Project/Site: STH 11 Kentucky to Kearney - 275788

TestAmerica Job ID: 500-127508-1

Client Sample ID: Trip Blank

Lab Sample ID: 500-127508-30

Date Collected: 05/02/17 00:00

Matrix: Solid

Date Received: 05/03/17 09:00

Percent Solids: 100.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trimethylbenzene	<18		50	18	ug/Kg	☼	05/02/17 00:00	05/16/17 01:22	50
1,2-Dibromo-3-Chloropropane	<100		250	100	ug/Kg	☼	05/02/17 00:00	05/16/17 01:22	50
1,2-Dibromoethane	<19		50	19	ug/Kg	☼	05/02/17 00:00	05/16/17 01:22	50
1,2-Dichlorobenzene	<17		50	17	ug/Kg	☼	05/02/17 00:00	05/16/17 01:22	50
1,2-Dichloroethane	<20		50	20	ug/Kg	☼	05/02/17 00:00	05/16/17 01:22	50
1,2-Dichloropropane	<21		50	21	ug/Kg	☼	05/02/17 00:00	05/16/17 01:22	50
1,3,5-Trimethylbenzene	<19		50	19	ug/Kg	☼	05/02/17 00:00	05/16/17 01:22	50
1,3-Dichlorobenzene	<20		50	20	ug/Kg	☼	05/02/17 00:00	05/16/17 01:22	50
1,3-Dichloropropane	<18		50	18	ug/Kg	☼	05/02/17 00:00	05/16/17 01:22	50
1,4-Dichlorobenzene	<18		50	18	ug/Kg	☼	05/02/17 00:00	05/16/17 01:22	50
2,2-Dichloropropane	<22		50	22	ug/Kg	☼	05/02/17 00:00	05/16/17 01:22	50
2-Chlorotoluene	<16		50	16	ug/Kg	☼	05/02/17 00:00	05/16/17 01:22	50
4-Chlorotoluene	<18		50	18	ug/Kg	☼	05/02/17 00:00	05/16/17 01:22	50
Benzene	<7.3		13	7.3	ug/Kg	☼	05/02/17 00:00	05/16/17 01:22	50
Bromobenzene	<18		50	18	ug/Kg	☼	05/02/17 00:00	05/16/17 01:22	50
Bromochloromethane	<21 *		50	21	ug/Kg	☼	05/02/17 00:00	05/16/17 01:22	50
Bromodichloromethane	<19		50	19	ug/Kg	☼	05/02/17 00:00	05/16/17 01:22	50
Bromoform	<24		50	24	ug/Kg	☼	05/02/17 00:00	05/16/17 01:22	50
Bromomethane	<40		100	40	ug/Kg	☼	05/02/17 00:00	05/16/17 01:22	50
Carbon tetrachloride	<19		50	19	ug/Kg	☼	05/02/17 00:00	05/16/17 01:22	50
Chlorobenzene	<19		50	19	ug/Kg	☼	05/02/17 00:00	05/16/17 01:22	50
Chloroethane	<25		50	25	ug/Kg	☼	05/02/17 00:00	05/16/17 01:22	50
Chloroform	<19 *		100	19	ug/Kg	☼	05/02/17 00:00	05/16/17 01:22	50
Chloromethane	<16		50	16	ug/Kg	☼	05/02/17 00:00	05/16/17 01:22	50
cis-1,2-Dichloroethene	<20 *		50	20	ug/Kg	☼	05/02/17 00:00	05/16/17 01:22	50
cis-1,3-Dichloropropene	<21		50	21	ug/Kg	☼	05/02/17 00:00	05/16/17 01:22	50
Dibromochloromethane	<24		50	24	ug/Kg	☼	05/02/17 00:00	05/16/17 01:22	50
Dibromomethane	<14		50	14	ug/Kg	☼	05/02/17 00:00	05/16/17 01:22	50
Dichlorodifluoromethane	<34		100	34	ug/Kg	☼	05/02/17 00:00	05/16/17 01:22	50
Ethylbenzene	<9.2		13	9.2	ug/Kg	☼	05/02/17 00:00	05/16/17 01:22	50
Hexachlorobutadiene	<22		50	22	ug/Kg	☼	05/02/17 00:00	05/16/17 01:22	50
Isopropyl ether	<14		50	14	ug/Kg	☼	05/02/17 00:00	05/16/17 01:22	50
Isopropylbenzene	<19		50	19	ug/Kg	☼	05/02/17 00:00	05/16/17 01:22	50
Methyl tert-butyl ether	<20 *		50	20	ug/Kg	☼	05/02/17 00:00	05/16/17 01:22	50
Methylene Chloride	<82 *		250	82	ug/Kg	☼	05/02/17 00:00	05/16/17 01:22	50
Naphthalene	<17 *		50	17	ug/Kg	☼	05/02/17 00:00	05/16/17 01:22	50
n-Butylbenzene	<19		50	19	ug/Kg	☼	05/02/17 00:00	05/16/17 01:22	50
N-Propylbenzene	<21		50	21	ug/Kg	☼	05/02/17 00:00	05/16/17 01:22	50
p-Isopropyltoluene	<18		50	18	ug/Kg	☼	05/02/17 00:00	05/16/17 01:22	50
sec-Butylbenzene	<20		50	20	ug/Kg	☼	05/02/17 00:00	05/16/17 01:22	50
Styrene	<19 *		50	19	ug/Kg	☼	05/02/17 00:00	05/16/17 01:22	50
tert-Butylbenzene	<20		50	20	ug/Kg	☼	05/02/17 00:00	05/16/17 01:22	50
Tetrachloroethene	<19		50	19	ug/Kg	☼	05/02/17 00:00	05/16/17 01:22	50
Toluene	<7.4		13	7.4	ug/Kg	☼	05/02/17 00:00	05/16/17 01:22	50
trans-1,2-Dichloroethene	<18 *		50	18	ug/Kg	☼	05/02/17 00:00	05/16/17 01:22	50
trans-1,3-Dichloropropene	<18		50	18	ug/Kg	☼	05/02/17 00:00	05/16/17 01:22	50
Trichloroethene	<8.2		25	8.2	ug/Kg	☼	05/02/17 00:00	05/16/17 01:22	50
Trichlorofluoromethane	<21 *		50	21	ug/Kg	☼	05/02/17 00:00	05/16/17 01:22	50
Vinyl chloride	<13 *		25	13	ug/Kg	☼	05/02/17 00:00	05/16/17 01:22	50

TestAmerica Chicago

Client Sample Results

Client: TRC Environmental Corporation.
 Project/Site: STH 11 Kentucky to Kearney - 275788

TestAmerica Job ID: 500-127508-1

Client Sample ID: Trip Blank

Lab Sample ID: 500-127508-30

Date Collected: 05/02/17 00:00

Matrix: Solid

Date Received: 05/03/17 09:00

Percent Solids: 100.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Xylenes, Total	<11		25	11	ug/Kg	☼	05/02/17 00:00	05/16/17 01:22	50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	102		75 - 126	05/02/17 00:00	05/16/17 01:22	50
4-Bromofluorobenzene (Surr)	103		72 - 124	05/02/17 00:00	05/16/17 01:22	50
Dibromofluoromethane	88		75 - 120	05/02/17 00:00	05/16/17 01:22	50
Toluene-d8 (Surr)	92		75 - 120	05/02/17 00:00	05/16/17 01:22	50



TestAmerica Laboratories, Inc.
 Attention: Sandie Fredrick
 2417 Bond St
 University Park, IL 44720

Date Received: 05/05/2017
Date Reported: 05/15/17 17:07
Client Project: Soil/Waste
Client Project ID: Soil/Waste
PO# 2669273
Project #: Soil/Waste

Certificate of Analysis

This analytical test report shall not be reproduced, except in full, without written permission from Eurofins S-F Analytical Laboratories. All quality control samples and checks were within acceptance limits unless otherwise indicated. Test results pertain only to those items tested. All samples were in good condition when received by the laboratory unless otherwise noted. All LOD/LOQs are adjusted to reflect dilutions.

DNR #	Analyte	Result Wet Wt.	LOD Wet Wt.	Result Dry Wt.	LOD Dry Wt.	LOQ Dry Wt.	Units	Dilution Factor	Date Prepared	Date Analyzed	Method	Notes
1705124-01		GP-23 (6-8) (500-127508-25)			Date Collected: 05/02/2017							
		Preparation: SW-846 5050 1994			Prepared By: P84Z		Analyzed By: P84Z					
	Chlorine as Cl	0.008	0.002	0.010	0.002	0.006	% Wt.	1	5/15/17	05/15/17	ASTM D808	
	Solids			Result: 86.84			% Wt.		Analyzed By: YT09	5/8/17	05/09/17	SM2540G 1997

This report was prepared and printed by:



Josh Rhein, Chemistry Operations Manager

Page 1 of 1



Definitions/Glossary

Client: TRC Environmental Corporation.
Project/Site: STH 11 Kentucky to Kearney - 275788

TestAmerica Job ID: 500-127508-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*	LCS or LCSD is outside acceptance limits.

GC 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
F1	MS and/or MSD Recovery is outside acceptance limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
V	Serial Dilution exceeds the control limits

General Chemistry

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	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
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 (Radiochemistry)
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: STH 11 Kentucky to Kearney - 275788

TestAmerica Job ID: 500-127508-1

GC/MS VOA

Prep Batch: 384046

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-127508-3	GP-13 (2-4)	Total/NA	Solid	5035	
500-127508-4	GP-13 (6-8)	Total/NA	Solid	5035	
500-127508-5	GP-14 (2-4)	Total/NA	Solid	5035	
500-127508-6	GP-14 (6-8)	Total/NA	Solid	5035	
500-127508-26	GP-24 (2-4)	Total/NA	Solid	5035	
500-127508-27	GP-24 (6-8)	Total/NA	Solid	5035	
500-127508-28	GP-25 (2-4)	Total/NA	Solid	5035	
500-127508-29	GP-25 (6-8)	Total/NA	Solid	WI GRO	
500-127508-30	Trip Blank	Total/NA	Solid	5035	

Leach Batch: 384086

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-127508-25	GP-23 (6-8)	TCLP	Solid	1311	
LB 500-384086/1-A	Method Blank	TCLP	Solid	1311	

Analysis Batch: 384262

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-127508-25	GP-23 (6-8)	TCLP	Solid	8260B	384086
LB 500-384086/1-A	Method Blank	TCLP	Solid	8260B	384086
MB 500-384262/6	Method Blank	Total/NA	Solid	8260B	
LCS 500-384262/4	Lab Control Sample	Total/NA	Solid	8260B	

Analysis Batch: 385282

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-127508-3	GP-13 (2-4)	Total/NA	Solid	8260B	384046
500-127508-4	GP-13 (6-8)	Total/NA	Solid	8260B	384046
500-127508-5	GP-14 (2-4)	Total/NA	Solid	8260B	384046
500-127508-6	GP-14 (6-8)	Total/NA	Solid	8260B	384046
500-127508-26	GP-24 (2-4)	Total/NA	Solid	8260B	384046
500-127508-27	GP-24 (6-8)	Total/NA	Solid	8260B	384046
500-127508-28	GP-25 (2-4)	Total/NA	Solid	8260B	384046
500-127508-29	GP-25 (6-8)	Total/NA	Solid	8260B	384046
500-127508-30	Trip Blank	Total/NA	Solid	8260B	384046
MB 500-385282/6	Method Blank	Total/NA	Solid	8260B	
LCS 500-385282/4	Lab Control Sample	Total/NA	Solid	8260B	

GC/MS Semi VOA

Leach Batch: 383992

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-127508-25	GP-23 (6-8)	TCLP	Solid	1311	
LB 500-383992/1-B	Method Blank	TCLP	Solid	1311	

Prep Batch: 384171

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-127508-25	GP-23 (6-8)	TCLP	Solid	3510C	383992
LB 500-383992/1-B	Method Blank	TCLP	Solid	3510C	383992
MB 500-384171/1-A	Method Blank	Total/NA	Solid	3510C	
LCS 500-384171/2-A	Lab Control Sample	Total/NA	Solid	3510C	

TestAmerica Chicago

QC Association Summary

Client: TRC Environmental Corporation.
Project/Site: STH 11 Kentucky to Kearney - 275788

TestAmerica Job ID: 500-127508-1

GC/MS Semi VOA (Continued)

Analysis Batch: 384241

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-127508-25	GP-23 (6-8)	TCLP	Solid	8270D	384171
LB 500-383992/1-B	Method Blank	TCLP	Solid	8270D	384171
MB 500-384171/1-A	Method Blank	Total/NA	Solid	8270D	384171
LCS 500-384171/2-A	Lab Control Sample	Total/NA	Solid	8270D	384171

GC VOA

Prep Batch: 384046

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-127508-29	GP-25 (6-8)	Total/NA	Solid	WI GRO	
LB3 500-384046/21-A	Method Blank	Total/NA	Solid	5035	
LCS 500-384046/23-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 500-384046/24-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Analysis Batch: 384093

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-127508-29	GP-25 (6-8)	Total/NA	Solid	WI-GRO	384046
LB3 500-384046/21-A	Method Blank	Total/NA	Solid	WI-GRO	384046
LCS 500-384046/23-A	Lab Control Sample	Total/NA	Solid	WI-GRO	384046
LCSD 500-384046/24-A	Lab Control Sample Dup	Total/NA	Solid	WI-GRO	384046

Prep Batch: 427841

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-127508-1	GP-12 (2-4)	Total/NA	Solid	WI GRO	
500-127508-2	GP-12 (6-8)	Total/NA	Solid	WI GRO	
500-127508-7	GP-15 (2-4)	Total/NA	Solid	WI GRO	
500-127508-8	GP-15 (6-8)	Total/NA	Solid	WI GRO	
500-127508-9	GP-16 (2-4)	Total/NA	Solid	WI GRO	
500-127508-10	GP-16 (6-8)	Total/NA	Solid	WI GRO	
500-127508-11	GP-17 (2-4)	Total/NA	Solid	WI GRO	
500-127508-12	GP-17 (6-8)	Total/NA	Solid	WI GRO	
500-127508-13	GP-18 (2-4)	Total/NA	Solid	WI GRO	
500-127508-14	GP-18 (6-8)	Total/NA	Solid	WI GRO	
500-127508-15	GP-19 (2-4)	Total/NA	Solid	WI GRO	
500-127508-16	GP-19 (6-8)	Total/NA	Solid	WI GRO	
500-127508-17	GP-20 (2-4)	Total/NA	Solid	WI GRO	
500-127508-18	GP-20 (6-8)	Total/NA	Solid	WI GRO	
500-127508-19	GP-20 (14-16)	Total/NA	Solid	WI GRO	
500-127508-20	GP-21 (2-4)	Total/NA	Solid	WI GRO	
500-127508-21	GP-21 (6-8)	Total/NA	Solid	WI GRO	
500-127508-22	GP-22 (2-4)	Total/NA	Solid	WI GRO	
500-127508-23	GP-22 (6-8)	Total/NA	Solid	WI GRO	
500-127508-24	GP-23 (2-4)	Total/NA	Solid	WI GRO	
500-127508-25	GP-23 (6-8)	Total/NA	Solid	WI GRO	
MB 490-427841/43-A	Method Blank	Total/NA	Solid	WI GRO	
LCS 490-427841/44-A	Lab Control Sample	Total/NA	Solid	WI GRO	
LCSD 490-427841/45-A	Lab Control Sample Dup	Total/NA	Solid	WI GRO	

TestAmerica Chicago

QC Association Summary

Client: TRC Environmental Corporation.
 Project/Site: STH 11 Kentucky to Kearney - 275788

TestAmerica Job ID: 500-127508-1

GC VOA (Continued)

Analysis Batch: 428992

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-127508-1	GP-12 (2-4)	Total/NA	Solid	WDNR	427841
500-127508-2	GP-12 (6-8)	Total/NA	Solid	WDNR	427841
500-127508-7	GP-15 (2-4)	Total/NA	Solid	WDNR	427841
500-127508-8	GP-15 (6-8)	Total/NA	Solid	WDNR	427841
500-127508-9	GP-16 (2-4)	Total/NA	Solid	WDNR	427841
500-127508-10	GP-16 (6-8)	Total/NA	Solid	WDNR	427841
500-127508-11	GP-17 (2-4)	Total/NA	Solid	WDNR	427841
500-127508-12	GP-17 (6-8)	Total/NA	Solid	WDNR	427841
500-127508-13	GP-18 (2-4)	Total/NA	Solid	WDNR	427841
500-127508-14	GP-18 (6-8)	Total/NA	Solid	WDNR	427841
500-127508-15	GP-19 (2-4)	Total/NA	Solid	WDNR	427841
500-127508-16	GP-19 (6-8)	Total/NA	Solid	WDNR	427841
500-127508-17	GP-20 (2-4)	Total/NA	Solid	WDNR	427841
500-127508-18	GP-20 (6-8)	Total/NA	Solid	WDNR	427841
500-127508-19	GP-20 (14-16)	Total/NA	Solid	WDNR	427841
500-127508-20	GP-21 (2-4)	Total/NA	Solid	WDNR	427841
500-127508-21	GP-21 (6-8)	Total/NA	Solid	WDNR	427841
500-127508-21	GP-21 (6-8)	Total/NA	Solid	WDNR	427841
500-127508-22	GP-22 (2-4)	Total/NA	Solid	WDNR	427841
500-127508-22	GP-22 (2-4)	Total/NA	Solid	WDNR	427841
500-127508-23	GP-22 (6-8)	Total/NA	Solid	WDNR	427841
500-127508-24	GP-23 (2-4)	Total/NA	Solid	WDNR	427841
500-127508-25	GP-23 (6-8)	Total/NA	Solid	WDNR	427841
MB 490-427841/43-A	Method Blank	Total/NA	Solid	WDNR	427841
MB 490-427841/43-A	Method Blank	Total/NA	Solid	WDNR	427841
LCS 490-427841/44-A	Lab Control Sample	Total/NA	Solid	WDNR	427841
LCS 490-427841/44-A	Lab Control Sample	Total/NA	Solid	WDNR	427841
LCSD 490-427841/45-A	Lab Control Sample Dup	Total/NA	Solid	WDNR	427841
LCSD 490-427841/45-A	Lab Control Sample Dup	Total/NA	Solid	WDNR	427841

GC Semi VOA

Prep Batch: 383737

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-127508-25	GP-23 (6-8)	Total/NA	Solid	WI DRO PREP	
500-127508-29	GP-25 (6-8)	Total/NA	Solid	WI DRO PREP	
MB 500-383737/1-A	Method Blank	Total/NA	Solid	WI DRO PREP	
LCS 500-383737/2-A	Lab Control Sample	Total/NA	Solid	WI DRO PREP	
LCSD 500-383737/3-A	Lab Control Sample Dup	Total/NA	Solid	WI DRO PREP	

Analysis Batch: 383957

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-127508-25	GP-23 (6-8)	Total/NA	Solid	WI-DRO	383737
500-127508-29	GP-25 (6-8)	Total/NA	Solid	WI-DRO	383737
MB 500-383737/1-A	Method Blank	Total/NA	Solid	WI-DRO	383737
LCS 500-383737/2-A	Lab Control Sample	Total/NA	Solid	WI-DRO	383737
LCSD 500-383737/3-A	Lab Control Sample Dup	Total/NA	Solid	WI-DRO	383737

QC Association Summary

Client: TRC Environmental Corporation.
Project/Site: STH 11 Kentucky to Kearney - 275788

TestAmerica Job ID: 500-127508-1

GC Semi VOA (Continued)

Prep Batch: 384456

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-127508-25	GP-23 (6-8)	Total/NA	Solid	3541	
MB 500-384456/1-A	Method Blank	Total/NA	Solid	3541	
LCS 500-384456/2-A	Lab Control Sample	Total/NA	Solid	3541	

Analysis Batch: 384545

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-127508-25	GP-23 (6-8)	Total/NA	Solid	8082A	384456
MB 500-384456/1-A	Method Blank	Total/NA	Solid	8082A	384456
LCS 500-384456/2-A	Lab Control Sample	Total/NA	Solid	8082A	384456

Metals

Leach Batch: 383992

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-127508-25	GP-23 (6-8)	TCLP	Solid	1311	
LB 500-383992/1-C	Method Blank	TCLP	Solid	1311	
LB 500-383992/1-D	Method Blank	TCLP	Solid	1311	

Prep Batch: 384019

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-127508-1	GP-12 (2-4)	Total/NA	Solid	3050B	
500-127508-2	GP-12 (6-8)	Total/NA	Solid	3050B	
500-127508-3	GP-13 (2-4)	Total/NA	Solid	3050B	
500-127508-4	GP-13 (6-8)	Total/NA	Solid	3050B	
500-127508-5	GP-14 (2-4)	Total/NA	Solid	3050B	
500-127508-6	GP-14 (6-8)	Total/NA	Solid	3050B	
500-127508-7	GP-15 (2-4)	Total/NA	Solid	3050B	
500-127508-8	GP-15 (6-8)	Total/NA	Solid	3050B	
500-127508-9	GP-16 (2-4)	Total/NA	Solid	3050B	
500-127508-10	GP-16 (6-8)	Total/NA	Solid	3050B	
500-127508-11	GP-17 (2-4)	Total/NA	Solid	3050B	
500-127508-12	GP-17 (6-8)	Total/NA	Solid	3050B	
500-127508-13	GP-18 (2-4)	Total/NA	Solid	3050B	
500-127508-14	GP-18 (6-8)	Total/NA	Solid	3050B	
500-127508-15	GP-19 (2-4)	Total/NA	Solid	3050B	
500-127508-16	GP-19 (6-8)	Total/NA	Solid	3050B	
500-127508-22	GP-22 (2-4)	Total/NA	Solid	3050B	
500-127508-23	GP-22 (6-8)	Total/NA	Solid	3050B	
500-127508-24	GP-23 (2-4)	Total/NA	Solid	3050B	
500-127508-25	GP-23 (6-8)	Total/NA	Solid	3050B	
MB 500-384019/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 500-384019/2-A	Lab Control Sample	Total/NA	Solid	3050B	
500-127508-1 MS	GP-12 (2-4)	Total/NA	Solid	3050B	
500-127508-1 MSD	GP-12 (2-4)	Total/NA	Solid	3050B	
500-127508-1 DU	GP-12 (2-4)	Total/NA	Solid	3050B	

Prep Batch: 384021

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-127508-26	GP-24 (2-4)	Total/NA	Solid	3050B	
500-127508-27	GP-24 (6-8)	Total/NA	Solid	3050B	

TestAmerica Chicago

QC Association Summary

Client: TRC Environmental Corporation.
Project/Site: STH 11 Kentucky to Kearney - 275788

TestAmerica Job ID: 500-127508-1

Metals (Continued)

Prep Batch: 384021 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-127508-28	GP-25 (2-4)	Total/NA	Solid	3050B	
500-127508-29	GP-25 (6-8)	Total/NA	Solid	3050B	
MB 500-384021/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 500-384021/2-A	Lab Control Sample	Total/NA	Solid	3050B	
500-127508-26 MS	GP-24 (2-4)	Total/NA	Solid	3050B	
500-127508-26 MSD	GP-24 (2-4)	Total/NA	Solid	3050B	
500-127508-26 DU	GP-24 (2-4)	Total/NA	Solid	3050B	

Prep Batch: 384187

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-127508-25	GP-23 (6-8)	TCLP	Solid	3010A	383992
LB 500-383992/1-C	Method Blank	TCLP	Solid	3010A	383992
LCS 500-384187/2-A	Lab Control Sample	Total/NA	Solid	3010A	

Prep Batch: 384260

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-127508-25	GP-23 (6-8)	TCLP	Solid	7470A	383992
LB 500-383992/1-D	Method Blank	TCLP	Solid	7470A	383992
MB 500-384260/12-A	Method Blank	Total/NA	Solid	7470A	
LCS 500-384260/13-A	Lab Control Sample	Total/NA	Solid	7470A	

Analysis Batch: 384328

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-127508-25	GP-23 (6-8)	TCLP	Solid	6010B	384187
LB 500-383992/1-C	Method Blank	TCLP	Solid	6010B	384187
LCS 500-384187/2-A	Lab Control Sample	Total/NA	Solid	6010B	384187

Analysis Batch: 384394

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-127508-25	GP-23 (6-8)	TCLP	Solid	7470A	384260
LB 500-383992/1-D	Method Blank	TCLP	Solid	7470A	384260
MB 500-384260/12-A	Method Blank	Total/NA	Solid	7470A	384260
LCS 500-384260/13-A	Lab Control Sample	Total/NA	Solid	7470A	384260

Analysis Batch: 384719

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-127508-26	GP-24 (2-4)	Total/NA	Solid	6010B	384021
500-127508-27	GP-24 (6-8)	Total/NA	Solid	6010B	384021
500-127508-28	GP-25 (2-4)	Total/NA	Solid	6010B	384021
500-127508-29	GP-25 (6-8)	Total/NA	Solid	6010B	384021
MB 500-384021/1-A	Method Blank	Total/NA	Solid	6010B	384021
LCS 500-384021/2-A	Lab Control Sample	Total/NA	Solid	6010B	384021
500-127508-26 MS	GP-24 (2-4)	Total/NA	Solid	6010B	384021
500-127508-26 MSD	GP-24 (2-4)	Total/NA	Solid	6010B	384021
500-127508-26 DU	GP-24 (2-4)	Total/NA	Solid	6010B	384021

Analysis Batch: 384724

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-127508-1	GP-12 (2-4)	Total/NA	Solid	6010B	384019
500-127508-2	GP-12 (6-8)	Total/NA	Solid	6010B	384019
500-127508-3	GP-13 (2-4)	Total/NA	Solid	6010B	384019

TestAmerica Chicago

QC Association Summary

Client: TRC Environmental Corporation.
Project/Site: STH 11 Kentucky to Kearney - 275788

TestAmerica Job ID: 500-127508-1

Metals (Continued)

Analysis Batch: 384724 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-127508-4	GP-13 (6-8)	Total/NA	Solid	6010B	384019
500-127508-5	GP-14 (2-4)	Total/NA	Solid	6010B	384019
500-127508-6	GP-14 (6-8)	Total/NA	Solid	6010B	384019
500-127508-7	GP-15 (2-4)	Total/NA	Solid	6010B	384019
500-127508-8	GP-15 (6-8)	Total/NA	Solid	6010B	384019
500-127508-9	GP-16 (2-4)	Total/NA	Solid	6010B	384019
500-127508-10	GP-16 (6-8)	Total/NA	Solid	6010B	384019
500-127508-11	GP-17 (2-4)	Total/NA	Solid	6010B	384019
500-127508-13	GP-18 (2-4)	Total/NA	Solid	6010B	384019
500-127508-14	GP-18 (6-8)	Total/NA	Solid	6010B	384019
500-127508-15	GP-19 (2-4)	Total/NA	Solid	6010B	384019
500-127508-16	GP-19 (6-8)	Total/NA	Solid	6010B	384019
500-127508-22	GP-22 (2-4)	Total/NA	Solid	6010B	384019
500-127508-23	GP-22 (6-8)	Total/NA	Solid	6010B	384019
500-127508-24	GP-23 (2-4)	Total/NA	Solid	6010B	384019
500-127508-25	GP-23 (6-8)	Total/NA	Solid	6010B	384019
MB 500-384019/1-A	Method Blank	Total/NA	Solid	6010B	384019
LCS 500-384019/2-A	Lab Control Sample	Total/NA	Solid	6010B	384019
500-127508-1 MS	GP-12 (2-4)	Total/NA	Solid	6010B	384019
500-127508-1 MSD	GP-12 (2-4)	Total/NA	Solid	6010B	384019
500-127508-1 DU	GP-12 (2-4)	Total/NA	Solid	6010B	384019

Analysis Batch: 384827

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-127508-12	GP-17 (6-8)	Total/NA	Solid	6010B	384019

General Chemistry

Analysis Batch: 383751

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-127508-3	GP-13 (2-4)	Total/NA	Solid	Moisture	
500-127508-4	GP-13 (6-8)	Total/NA	Solid	Moisture	
500-127508-5	GP-14 (2-4)	Total/NA	Solid	Moisture	
500-127508-6	GP-14 (6-8)	Total/NA	Solid	Moisture	
500-127508-25	GP-23 (6-8)	Total/NA	Solid	Moisture	
500-127508-26	GP-24 (2-4)	Total/NA	Solid	Moisture	
500-127508-27	GP-24 (6-8)	Total/NA	Solid	Moisture	
500-127508-28	GP-25 (2-4)	Total/NA	Solid	Moisture	
500-127508-29	GP-25 (6-8)	Total/NA	Solid	Moisture	
500-127508-30	Trip Blank	Total/NA	Solid	Moisture	

Analysis Batch: 384553

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-127508-25	GP-23 (6-8)	Total/NA	Solid	9045C	

Analysis Batch: 384965

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-127508-22	GP-22 (2-4)	Total/NA	Solid	Moisture	

TestAmerica Chicago

QC Association Summary

Client: TRC Environmental Corporation.
Project/Site: STH 11 Kentucky to Kearney - 275788

TestAmerica Job ID: 500-127508-1

General Chemistry (Continued)

Analysis Batch: 385047

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-127508-25	GP-23 (6-8)	Total/NA	Solid	SM 2710F	

Prep Batch: 385217

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-127508-25	GP-23 (6-8)	Total/NA	Solid	9010B	
MB 500-385217/1-A	Method Blank	Total/NA	Solid	9010B	
LCS 500-385217/2-A	Lab Control Sample	Total/NA	Solid	9010B	

Prep Batch: 385245

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-127508-25	GP-23 (6-8)	Total/NA	Solid	9030B	
MB 500-385245/1-A	Method Blank	Total/NA	Solid	9030B	
LCS 500-385245/2-A	Lab Control Sample	Total/NA	Solid	9030B	

Analysis Batch: 385286

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-127508-25	GP-23 (6-8)	Total/NA	Solid	9095A	

Analysis Batch: 385288

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-127508-25	GP-23 (6-8)	Total/NA	Solid	1010	

Analysis Batch: 385342

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-127508-25	GP-23 (6-8)	Total/NA	Solid	9014	385217
MB 500-385217/1-A	Method Blank	Total/NA	Solid	9014	385217
LCS 500-385217/2-A	Lab Control Sample	Total/NA	Solid	9014	385217

Analysis Batch: 385402

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-127508-25	GP-23 (6-8)	Total/NA	Solid	9034	385245
MB 500-385245/1-A	Method Blank	Total/NA	Solid	9034	385245
LCS 500-385245/2-A	Lab Control Sample	Total/NA	Solid	9034	385245

Analysis Batch: 427540

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-127508-1	GP-12 (2-4)	Total/NA	Solid	Moisture	
500-127508-2	GP-12 (6-8)	Total/NA	Solid	Moisture	
500-127508-7	GP-15 (2-4)	Total/NA	Solid	Moisture	
500-127508-8	GP-15 (6-8)	Total/NA	Solid	Moisture	
500-127508-9	GP-16 (2-4)	Total/NA	Solid	Moisture	
500-127508-10	GP-16 (6-8)	Total/NA	Solid	Moisture	
500-127508-11	GP-17 (2-4)	Total/NA	Solid	Moisture	
500-127508-12	GP-17 (6-8)	Total/NA	Solid	Moisture	
500-127508-13	GP-18 (2-4)	Total/NA	Solid	Moisture	
500-127508-14	GP-18 (6-8)	Total/NA	Solid	Moisture	
500-127508-15	GP-19 (2-4)	Total/NA	Solid	Moisture	
500-127508-16	GP-19 (6-8)	Total/NA	Solid	Moisture	
500-127508-17	GP-20 (2-4)	Total/NA	Solid	Moisture	
500-127508-18	GP-20 (6-8)	Total/NA	Solid	Moisture	
500-127508-19	GP-20 (14-16)	Total/NA	Solid	Moisture	

TestAmerica Chicago

QC Association Summary

Client: TRC Environmental Corporation.
Project/Site: STH 11 Kentucky to Kearney - 275788

TestAmerica Job ID: 500-127508-1

General Chemistry (Continued)

Analysis Batch: 427540 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-127508-20	GP-21 (2-4)	Total/NA	Solid	Moisture	
500-127508-21	GP-21 (6-8)	Total/NA	Solid	Moisture	
500-127508-23	GP-22 (6-8)	Total/NA	Solid	Moisture	
500-127508-24	GP-23 (2-4)	Total/NA	Solid	Moisture	
500-127508-25	GP-23 (6-8)	Total/NA	Solid	Moisture	

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15
- 16

Surrogate Summary

Client: TRC Environmental Corporation.
Project/Site: STH 11 Kentucky to Kearney - 275788

TestAmerica Job ID: 500-127508-1

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 (75-126)	BFB (72-124)	DBFM (75-120)	TOL (75-120)
500-127508-3	GP-13 (2-4)	102	106	89	92
500-127508-4	GP-13 (6-8)	100	108	89	93
500-127508-5	GP-14 (2-4)	103	105	88	94
500-127508-6	GP-14 (6-8)	103	106	89	93
500-127508-26	GP-24 (2-4)	103	107	88	93
500-127508-27	GP-24 (6-8)	105	106	90	93
500-127508-28	GP-25 (2-4)	100	106	88	92
500-127508-29	GP-25 (6-8)	103	103	90	95
500-127508-30	Trip Blank	102	103	88	92
LCS 500-384262/4	Lab Control Sample	103	109	93	102
LCS 500-385282/4	Lab Control Sample	97	100	90	91
MB 500-384262/6	Method Blank	105	114	89	100
MB 500-385282/6	Method Blank	98	107	89	92

Surrogate Legend

12DCE = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane
TOL = Toluene-d8 (Surr)

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

Matrix: Solid

Prep Type: TCLP

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		12DCE (75-126)	BFB (72-124)	DBFM (75-120)	TOL (75-120)
500-127508-25	GP-23 (6-8)	100	109	84	103
LB 500-384086/1-A	Method Blank	104	110	89	97

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)					
		TBP (40-145)	FBP (34-110)	2FP (27-110)	NBZ (36-120)	PHL (20-100)	TPH (40-145)
LCS 500-384171/2-A	Lab Control Sample	98	87	61	92	44	103
MB 500-384171/1-A	Method Blank	90	90	65	97	43	107

Surrogate Legend

TBP = 2,4,6-Tribromophenol (Surr)
FBP = 2-Fluorobiphenyl
2FP = 2-Fluorophenol (Surr)
NBZ = Nitrobenzene-d5 (Surr)
PHL = Phenol-d5 (Surr)

TestAmerica Chicago

Surrogate Summary

Client: TRC Environmental Corporation.
 Project/Site: STH 11 Kentucky to Kearney - 275788

TestAmerica Job ID: 500-127508-1

TPH = Terphenyl-d14 (Surr)

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

Matrix: Solid

Prep Type: TCLP

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)					
		TBP (40-145)	FBP (34-110)	2FP (27-110)	NBZ (36-120)	PHL (20-100)	TPH (40-145)
500-127508-25	GP-23 (6-8)	91	90	62	99	43	108
LB 500-383992/1-B	Method Blank	90	84	56	94	39	104

Surrogate Legend

TBP = 2,4,6-Tribromophenol (Surr)

FBP = 2-Fluorobiphenyl

2FP = 2-Fluorophenol (Surr)

NBZ = Nitrobenzene-d5 (Surr)

PHL = Phenol-d5 (Surr)

TPH = Terphenyl-d14 (Surr)

Method: WDNR - Wisconsin - Gasoline Range Organics (GC)

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)	
		TFT (80-120)	TFT (80-120)
500-127508-1	GP-12 (2-4)	91	91
500-127508-2	GP-12 (6-8)	91	91
500-127508-7	GP-15 (2-4)	90	90
500-127508-8	GP-15 (6-8)	89	89
500-127508-9	GP-16 (2-4)	91	91
500-127508-10	GP-16 (6-8)	91	91
500-127508-11	GP-17 (2-4)	91	91
500-127508-12	GP-17 (6-8)	90	90
500-127508-13	GP-18 (2-4)	91	91
500-127508-14	GP-18 (6-8)	91	91
500-127508-15	GP-19 (2-4)	89	89
500-127508-16	GP-19 (6-8)	90	90
500-127508-17	GP-20 (2-4)	90	90
500-127508-18	GP-20 (6-8)	88	88
500-127508-19	GP-20 (14-16)	86	86
500-127508-20	GP-21 (2-4)	98	98
500-127508-21	GP-21 (6-8)	125 X	125 X
500-127508-21	GP-21 (6-8)	173 X	173 X
500-127508-22	GP-22 (2-4)	81	81
500-127508-22	GP-22 (2-4)	89	89
500-127508-23	GP-22 (6-8)	88	88
500-127508-24	GP-23 (2-4)	87	87
500-127508-25	GP-23 (6-8)	87	87
LCS 490-427841/44-A	Lab Control Sample	95	95
LCS 490-427841/44-A	Lab Control Sample	93	93
LCSD 490-427841/45-A	Lab Control Sample Dup	95	95
LCSD 490-427841/45-A	Lab Control Sample Dup	91	91
MB 490-427841/43-A	Method Blank	86	86
MB 490-427841/43-A	Method Blank	89	89

Surrogate Legend

TestAmerica Chicago

Surrogate Summary

Client: TRC Environmental Corporation.
Project/Site: STH 11 Kentucky to Kearney - 275788

TestAmerica Job ID: 500-127508-1

TFT = a,a,a-Trifluorotoluene

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

Matrix: Solid

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	TCX1	DCB1
		(49-129)	(37-121)
500-127508-25	GP-23 (6-8)	67	71
LCS 500-384456/2-A	Lab Control Sample	76	63
MB 500-384456/1-A	Method Blank	76	70

Surrogate Legend

TCX = Tetrachloro-m-xylene

DCB = DCB Decachlorobiphenyl

Method: WI-DRO - Wisconsin - Diesel Range Organics (GC)

Matrix: Solid

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	C9
		(44-148)
500-127508-25	GP-23 (6-8)	76
500-127508-29	GP-25 (6-8)	86
LCS 500-383737/2-A	Lab Control Sample	77
LCSD 500-383737/3-A	Lab Control Sample Dup	71
MB 500-383737/1-A	Method Blank	83

Surrogate Legend

C9 = n-Nonane

QC Sample Results

Client: TRC Environmental Corporation.
Project/Site: STH 11 Kentucky to Kearney - 275788

TestAmerica Job ID: 500-127508-1

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

Lab Sample ID: MB 500-384262/6

Matrix: Solid

Analysis Batch: 384262

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	<0.00050		0.0010	0.00050	mg/L			05/08/17 22:32	1
Methyl Ethyl Ketone	<0.0025		0.0050	0.0025	mg/L			05/08/17 22:32	1
1,2-Dichloroethane	<0.00050		0.0010	0.00050	mg/L			05/08/17 22:32	1
Benzene	<0.00050		0.0010	0.00050	mg/L			05/08/17 22:32	1
Carbon tetrachloride	<0.00050		0.0010	0.00050	mg/L			05/08/17 22:32	1
Chlorobenzene	<0.00050		0.0010	0.00050	mg/L			05/08/17 22:32	1
Chloroform	<0.0010		0.0020	0.0010	mg/L			05/08/17 22:32	1
Tetrachloroethene	<0.00050		0.0010	0.00050	mg/L			05/08/17 22:32	1
Trichloroethene	<0.00050		0.0010	0.00050	mg/L			05/08/17 22:32	1
Vinyl chloride	<0.00050		0.0010	0.00050	mg/L			05/08/17 22:32	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	105		75 - 126		05/08/17 22:32	1
4-Bromofluorobenzene (Surr)	114		72 - 124		05/08/17 22:32	1
Dibromofluoromethane	89		75 - 120		05/08/17 22:32	1
Toluene-d8 (Surr)	100		75 - 120		05/08/17 22:32	1

Lab Sample ID: LCS 500-384262/4

Matrix: Solid

Analysis Batch: 384262

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1-Dichloroethene	0.0500	0.0449		mg/L		90	67 - 122
Methyl Ethyl Ketone	0.0500	0.0524		mg/L		105	53 - 141
1,2-Dichloroethane	0.0500	0.0504		mg/L		101	68 - 127
Benzene	0.0500	0.0479		mg/L		96	70 - 120
Carbon tetrachloride	0.0500	0.0453		mg/L		91	65 - 122
Chlorobenzene	0.0500	0.0500		mg/L		100	70 - 120
Chloroform	0.0500	0.0455		mg/L		91	70 - 120
Tetrachloroethene	0.0500	0.0518		mg/L		104	70 - 128
Trichloroethene	0.0500	0.0488		mg/L		98	70 - 125
Vinyl chloride	0.0500	0.0415		mg/L		83	64 - 126

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	103		75 - 126
4-Bromofluorobenzene (Surr)	109		72 - 124
Dibromofluoromethane	93		75 - 120
Toluene-d8 (Surr)	102		75 - 120

Lab Sample ID: MB 500-385282/6

Matrix: Solid

Analysis Batch: 385282

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	<0.46		1.0	0.46	ug/Kg			05/16/17 00:56	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/Kg			05/16/17 00:56	1
1,1,1,2-Tetrachloroethane	<0.40		1.0	0.40	ug/Kg			05/16/17 00:56	1

TestAmerica Chicago

QC Sample Results

Client: TRC Environmental Corporation.
 Project/Site: STH 11 Kentucky to Kearney - 275788

TestAmerica Job ID: 500-127508-1

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

Lab Sample ID: MB 500-385282/6
Matrix: Solid
Analysis Batch: 385282

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/Kg			05/16/17 00:56	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/Kg			05/16/17 00:56	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/Kg			05/16/17 00:56	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/Kg			05/16/17 00:56	1
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/Kg			05/16/17 00:56	1
1,2,3-Trichloropropane	<0.41		1.0	0.41	ug/Kg			05/16/17 00:56	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/Kg			05/16/17 00:56	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/Kg			05/16/17 00:56	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/Kg			05/16/17 00:56	1
1,2-Dibromoethane	<0.39		1.0	0.39	ug/Kg			05/16/17 00:56	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/Kg			05/16/17 00:56	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/Kg			05/16/17 00:56	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/Kg			05/16/17 00:56	1
1,3,5-Trimethylbenzene	<0.38		1.0	0.38	ug/Kg			05/16/17 00:56	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/Kg			05/16/17 00:56	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/Kg			05/16/17 00:56	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/Kg			05/16/17 00:56	1
2,2-Dichloropropane	<0.44		1.0	0.44	ug/Kg			05/16/17 00:56	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/Kg			05/16/17 00:56	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/Kg			05/16/17 00:56	1
Benzene	<0.15		0.25	0.15	ug/Kg			05/16/17 00:56	1
Bromobenzene	<0.36		1.0	0.36	ug/Kg			05/16/17 00:56	1
Bromochloromethane	<0.43		1.0	0.43	ug/Kg			05/16/17 00:56	1
Bromodichloromethane	<0.37		1.0	0.37	ug/Kg			05/16/17 00:56	1
Bromoform	<0.48		1.0	0.48	ug/Kg			05/16/17 00:56	1
Bromomethane	<0.80		2.0	0.80	ug/Kg			05/16/17 00:56	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/Kg			05/16/17 00:56	1
Chlorobenzene	<0.39		1.0	0.39	ug/Kg			05/16/17 00:56	1
Chloroethane	<0.50		1.0	0.50	ug/Kg			05/16/17 00:56	1
Chloroform	<0.37		2.0	0.37	ug/Kg			05/16/17 00:56	1
Chloromethane	<0.32		1.0	0.32	ug/Kg			05/16/17 00:56	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/Kg			05/16/17 00:56	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/Kg			05/16/17 00:56	1
Dibromochloromethane	<0.49		1.0	0.49	ug/Kg			05/16/17 00:56	1
Dibromomethane	<0.27		1.0	0.27	ug/Kg			05/16/17 00:56	1
Dichlorodifluoromethane	<0.67		2.0	0.67	ug/Kg			05/16/17 00:56	1
Ethylbenzene	<0.18		0.25	0.18	ug/Kg			05/16/17 00:56	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/Kg			05/16/17 00:56	1
Isopropyl ether	<0.28		1.0	0.28	ug/Kg			05/16/17 00:56	1
Isopropylbenzene	<0.38		1.0	0.38	ug/Kg			05/16/17 00:56	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/Kg			05/16/17 00:56	1
Methylene Chloride	<1.6		5.0	1.6	ug/Kg			05/16/17 00:56	1
Naphthalene	<0.33		1.0	0.33	ug/Kg			05/16/17 00:56	1
n-Butylbenzene	<0.39		1.0	0.39	ug/Kg			05/16/17 00:56	1
N-Propylbenzene	<0.41		1.0	0.41	ug/Kg			05/16/17 00:56	1
p-Isopropyltoluene	<0.36		1.0	0.36	ug/Kg			05/16/17 00:56	1
sec-Butylbenzene	<0.40		1.0	0.40	ug/Kg			05/16/17 00:56	1
Styrene	<0.39		1.0	0.39	ug/Kg			05/16/17 00:56	1

TestAmerica Chicago

QC Sample Results

Client: TRC Environmental Corporation.
 Project/Site: STH 11 Kentucky to Kearney - 275788

TestAmerica Job ID: 500-127508-1

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

Lab Sample ID: MB 500-385282/6
Matrix: Solid
Analysis Batch: 385282

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
tert-Butylbenzene	<0.40		1.0	0.40	ug/Kg			05/16/17 00:56	1
Tetrachloroethene	<0.37		1.0	0.37	ug/Kg			05/16/17 00:56	1
Toluene	<0.15		0.25	0.15	ug/Kg			05/16/17 00:56	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/Kg			05/16/17 00:56	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/Kg			05/16/17 00:56	1
Trichloroethene	<0.16		0.50	0.16	ug/Kg			05/16/17 00:56	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/Kg			05/16/17 00:56	1
Vinyl chloride	<0.26		0.50	0.26	ug/Kg			05/16/17 00:56	1
Xylenes, Total	<0.22		0.50	0.22	ug/Kg			05/16/17 00:56	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	98		75 - 126		05/16/17 00:56	1
4-Bromofluorobenzene (Surr)	107		72 - 124		05/16/17 00:56	1
Dibromofluoromethane	89		75 - 120		05/16/17 00:56	1
Toluene-d8 (Surr)	92		75 - 120		05/16/17 00:56	1

Lab Sample ID: LCS 500-385282/4
Matrix: Solid
Analysis Batch: 385282

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	50.8		ug/Kg		102	70 - 125
1,1,1-Trichloroethane	50.0	48.8		ug/Kg		98	70 - 125
1,1,1,2-Tetrachloroethane	50.0	47.9		ug/Kg		96	67 - 127
1,1,2-Trichloroethane	50.0	51.0		ug/Kg		102	70 - 122
1,1-Dichloroethane	50.0	58.6		ug/Kg		117	70 - 125
1,1-Dichloroethene	50.0	48.0		ug/Kg		96	67 - 122
1,1-Dichloropropene	50.0	51.2		ug/Kg		102	70 - 121
1,2,3-Trichlorobenzene	50.0	41.3		ug/Kg		83	55 - 140
1,2,3-Trichloropropane	50.0	47.2		ug/Kg		94	50 - 133
1,2,4-Trichlorobenzene	50.0	48.8		ug/Kg		98	66 - 127
1,2,4-Trimethylbenzene	50.0	54.4		ug/Kg		109	70 - 123
1,2-Dibromo-3-Chloropropane	50.0	41.2		ug/Kg		82	56 - 123
1,2-Dibromoethane	50.0	48.7		ug/Kg		97	70 - 125
1,2-Dichlorobenzene	50.0	52.5		ug/Kg		105	70 - 125
1,2-Dichloroethane	50.0	57.8		ug/Kg		116	68 - 127
1,2-Dichloropropane	50.0	64.7		ug/Kg		129	67 - 130
1,3,5-Trimethylbenzene	50.0	54.3		ug/Kg		109	70 - 123
1,3-Dichlorobenzene	50.0	54.6		ug/Kg		109	70 - 125
1,3-Dichloropropane	50.0	51.0		ug/Kg		102	62 - 136
1,4-Dichlorobenzene	50.0	51.6		ug/Kg		103	70 - 120
2,2-Dichloropropane	50.0	48.9		ug/Kg		98	58 - 129
2-Chlorotoluene	50.0	54.0		ug/Kg		108	70 - 125
4-Chlorotoluene	50.0	52.1		ug/Kg		104	68 - 124
Benzene	50.0	53.0		ug/Kg		106	70 - 120
Bromobenzene	50.0	56.7		ug/Kg		113	70 - 122
Bromochloromethane	50.0	50.1		ug/Kg		100	65 - 122
Bromodichloromethane	50.0	49.3		ug/Kg		99	69 - 120

TestAmerica Chicago

QC Sample Results

Client: TRC Environmental Corporation.
Project/Site: STH 11 Kentucky to Kearney - 275788

TestAmerica Job ID: 500-127508-1

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

Lab Sample ID: LCS 500-385282/4

Matrix: Solid

Analysis Batch: 385282

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	54.5		ug/Kg		109	56 - 132
Bromomethane	50.0	37.3		ug/Kg		75	40 - 130
Carbon tetrachloride	50.0	51.0		ug/Kg		102	65 - 122
Chlorobenzene	50.0	51.6		ug/Kg		103	70 - 120
Chloroethane	50.0	39.2		ug/Kg		78	45 - 127
Chloroform	50.0	48.6		ug/Kg		97	70 - 120
Chloromethane	50.0	70.6		ug/Kg		141	54 - 147
cis-1,2-Dichloroethene	50.0	52.0		ug/Kg		104	70 - 125
cis-1,3-Dichloropropene	50.0	50.5		ug/Kg		101	64 - 127
Dibromochloromethane	50.0	49.5		ug/Kg		99	68 - 125
Dibromomethane	50.0	49.0		ug/Kg		98	70 - 120
Dichlorodifluoromethane	50.0	51.5		ug/Kg		103	40 - 150
Ethylbenzene	50.0	52.3		ug/Kg		105	70 - 120
Hexachlorobutadiene	50.0	63.4		ug/Kg		127	51 - 150
Isopropylbenzene	50.0	56.9		ug/Kg		114	70 - 126
Methyl tert-butyl ether	50.0	45.4		ug/Kg		91	70 - 120
Methylene Chloride	50.0	46.5		ug/Kg		93	69 - 125
Naphthalene	50.0	38.9		ug/Kg		78	59 - 130
n-Butylbenzene	50.0	52.7		ug/Kg		105	68 - 125
N-Propylbenzene	50.0	54.3		ug/Kg		109	69 - 127
p-Isopropyltoluene	50.0	54.3		ug/Kg		109	70 - 125
sec-Butylbenzene	50.0	54.2		ug/Kg		108	70 - 123
Styrene	50.0	50.3		ug/Kg		101	70 - 120
tert-Butylbenzene	50.0	56.5		ug/Kg		113	70 - 121
Tetrachloroethene	50.0	59.9		ug/Kg		120	70 - 128
Toluene	50.0	51.8		ug/Kg		104	70 - 125
trans-1,2-Dichloroethene	50.0	49.5		ug/Kg		99	70 - 125
trans-1,3-Dichloropropene	50.0	48.2		ug/Kg		96	62 - 128
Trichloroethene	50.0	57.9		ug/Kg		116	70 - 125
Trichlorofluoromethane	50.0	48.1		ug/Kg		96	70 - 126
Vinyl chloride	50.0	61.3		ug/Kg		123	64 - 126
Xylenes, Total	100	101		ug/Kg		101	70 - 125

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	97		75 - 126
4-Bromofluorobenzene (Surr)	100		72 - 124
Dibromofluoromethane	90		75 - 120
Toluene-d8 (Surr)	91		75 - 120

Lab Sample ID: LB 500-384086/1-A

Matrix: Solid

Analysis Batch: 384262

Client Sample ID: Method Blank

Prep Type: TCLP

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	<0.010		0.020	0.010	mg/L			05/08/17 23:25	20
Methyl Ethyl Ketone	<0.050		0.10	0.050	mg/L			05/08/17 23:25	20
1,2-Dichloroethane	<0.010		0.020	0.010	mg/L			05/08/17 23:25	20
Benzene	<0.010		0.020	0.010	mg/L			05/08/17 23:25	20

TestAmerica Chicago

QC Sample Results

Client: TRC Environmental Corporation.
Project/Site: STH 11 Kentucky to Kearney - 275788

TestAmerica Job ID: 500-127508-1

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

Lab Sample ID: LB 500-384086/1-A
Matrix: Solid
Analysis Batch: 384262

Client Sample ID: Method Blank
Prep Type: TCLP

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon tetrachloride	<0.010		0.020	0.010	mg/L			05/08/17 23:25	20
Chlorobenzene	<0.010		0.020	0.010	mg/L			05/08/17 23:25	20
Chloroform	<0.020		0.040	0.020	mg/L			05/08/17 23:25	20
Tetrachloroethene	<0.010		0.020	0.010	mg/L			05/08/17 23:25	20
Trichloroethene	<0.010		0.020	0.010	mg/L			05/08/17 23:25	20
Vinyl chloride	<0.010		0.020	0.010	mg/L			05/08/17 23:25	20

Surrogate	LB %Recovery	LB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	104		75 - 126		05/08/17 23:25	20
4-Bromofluorobenzene (Surr)	110		72 - 124		05/08/17 23:25	20
Dibromofluoromethane	89		75 - 120		05/08/17 23:25	20
Toluene-d8 (Surr)	97		75 - 120		05/08/17 23:25	20

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

Lab Sample ID: MB 500-384171/1-A
Matrix: Solid
Analysis Batch: 384241

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 384171

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	<0.0020		0.0020	0.0020	mg/L		05/08/17 07:42	05/08/17 15:01	1
2,4,5-Trichlorophenol	<0.010		0.010	0.010	mg/L		05/08/17 07:42	05/08/17 15:01	1
2,4,6-Trichlorophenol	<0.0050		0.0050	0.0050	mg/L		05/08/17 07:42	05/08/17 15:01	1
2,4-Dinitrotoluene	<0.0010		0.0010	0.0010	mg/L		05/08/17 07:42	05/08/17 15:01	1
2-Methylphenol	<0.0020		0.0020	0.0020	mg/L		05/08/17 07:42	05/08/17 15:01	1
3 & 4 Methylphenol	<0.0020		0.0020	0.0020	mg/L		05/08/17 07:42	05/08/17 15:01	1
Hexachlorobenzene	<0.00050		0.00050	0.00050	mg/L		05/08/17 07:42	05/08/17 15:01	1
Hexachlorobutadiene	<0.0050		0.0050	0.0050	mg/L		05/08/17 07:42	05/08/17 15:01	1
Hexachloroethane	<0.0050		0.0050	0.0050	mg/L		05/08/17 07:42	05/08/17 15:01	1
Nitrobenzene	<0.0010		0.0010	0.0010	mg/L		05/08/17 07:42	05/08/17 15:01	1
Pentachlorophenol	<0.020		0.020	0.020	mg/L		05/08/17 07:42	05/08/17 15:01	1
Pyridine	<0.020		0.020	0.020	mg/L		05/08/17 07:42	05/08/17 15:01	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	90		40 - 145	05/08/17 07:42	05/08/17 15:01	1
2-Fluorobiphenyl	90		34 - 110	05/08/17 07:42	05/08/17 15:01	1
2-Fluorophenol (Surr)	65		27 - 110	05/08/17 07:42	05/08/17 15:01	1
Nitrobenzene-d5 (Surr)	97		36 - 120	05/08/17 07:42	05/08/17 15:01	1
Phenol-d5 (Surr)	43		20 - 100	05/08/17 07:42	05/08/17 15:01	1
Terphenyl-d14 (Surr)	107		40 - 145	05/08/17 07:42	05/08/17 15:01	1

Lab Sample ID: LCS 500-384171/2-A
Matrix: Solid
Analysis Batch: 384241

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 384171

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,4-Dichlorobenzene	0.0400	0.0322		mg/L		81	23 - 110

TestAmerica Chicago

QC Sample Results

Client: TRC Environmental Corporation.
 Project/Site: STH 11 Kentucky to Kearney - 275788

TestAmerica Job ID: 500-127508-1

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

Lab Sample ID: LCS 500-384171/2-A
Matrix: Solid
Analysis Batch: 384241

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 384171

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
2,4,5-Trichlorophenol	0.0400	0.0388		mg/L		97	63 - 120
2,4,6-Trichlorophenol	0.0400	0.0393		mg/L		98	62 - 110
2,4-Dinitrotoluene	0.0400	0.0432		mg/L		108	63 - 122
2-Methylphenol	0.0400	0.0342		mg/L		86	53 - 110
3 & 4 Methylphenol	0.0400	0.0329		mg/L		82	53 - 110
Hexachlorobenzene	0.0400	0.0375		mg/L		94	61 - 120
Hexachlorobutadiene	0.0400	0.0315		mg/L		79	20 - 100
Hexachloroethane	0.0400	0.0314		mg/L		79	20 - 100
Nitrobenzene	0.0400	0.0359		mg/L		90	53 - 110
Pentachlorophenol	0.0800	0.0779		mg/L		97	23 - 129
Pyridine	0.0400	0.0259		mg/L		65	15 - 110

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2,4,6-Tribromophenol (Surr)	98		40 - 145
2-Fluorobiphenyl	87		34 - 110
2-Fluorophenol (Surr)	61		27 - 110
Nitrobenzene-d5 (Surr)	92		36 - 120
Phenol-d5 (Surr)	44		20 - 100
Terphenyl-d14 (Surr)	103		40 - 145

Lab Sample ID: LB 500-383992/1-B
Matrix: Solid
Analysis Batch: 384241

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 384171

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	<0.020		0.020	0.020	mg/L		05/08/17 07:42	05/08/17 14:34	1
2,4,5-Trichlorophenol	<0.10		0.10	0.10	mg/L		05/08/17 07:42	05/08/17 14:34	1
2,4,6-Trichlorophenol	<0.050		0.050	0.050	mg/L		05/08/17 07:42	05/08/17 14:34	1
2,4-Dinitrotoluene	<0.010		0.010	0.010	mg/L		05/08/17 07:42	05/08/17 14:34	1
2-Methylphenol	<0.020		0.020	0.020	mg/L		05/08/17 07:42	05/08/17 14:34	1
3 & 4 Methylphenol	<0.020		0.020	0.020	mg/L		05/08/17 07:42	05/08/17 14:34	1
Hexachlorobenzene	<0.0050		0.0050	0.0050	mg/L		05/08/17 07:42	05/08/17 14:34	1
Hexachlorobutadiene	<0.050		0.050	0.050	mg/L		05/08/17 07:42	05/08/17 14:34	1
Hexachloroethane	<0.050		0.050	0.050	mg/L		05/08/17 07:42	05/08/17 14:34	1
Nitrobenzene	<0.010		0.010	0.010	mg/L		05/08/17 07:42	05/08/17 14:34	1
Pentachlorophenol	<0.20		0.20	0.20	mg/L		05/08/17 07:42	05/08/17 14:34	1
Pyridine	<0.20		0.20	0.20	mg/L		05/08/17 07:42	05/08/17 14:34	1

Surrogate	LB %Recovery	LB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	90		40 - 145	05/08/17 07:42	05/08/17 14:34	1
2-Fluorobiphenyl	84		34 - 110	05/08/17 07:42	05/08/17 14:34	1
2-Fluorophenol (Surr)	56		27 - 110	05/08/17 07:42	05/08/17 14:34	1
Nitrobenzene-d5 (Surr)	94		36 - 120	05/08/17 07:42	05/08/17 14:34	1
Phenol-d5 (Surr)	39		20 - 100	05/08/17 07:42	05/08/17 14:34	1
Terphenyl-d14 (Surr)	104		40 - 145	05/08/17 07:42	05/08/17 14:34	1

TestAmerica Chicago

QC Sample Results

Client: TRC Environmental Corporation.
Project/Site: STH 11 Kentucky to Kearney - 275788

TestAmerica Job ID: 500-127508-1

Method: WDNR - Wisconsin - Gasoline Range Organics (GC)

Lab Sample ID: MB 490-427841/43-A

Matrix: Solid

Analysis Batch: 428992

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 427841

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<18		25	18	ug/Kg		05/06/17 12:45	05/10/17 17:07	1
Ethylbenzene	<19		25	19	ug/Kg		05/06/17 12:45	05/10/17 17:07	1
Methyl tert-butyl ether	<12		25	12	ug/Kg		05/06/17 12:45	05/10/17 17:07	1
1,2,4-Trimethylbenzene	<15		25	15	ug/Kg		05/06/17 12:45	05/10/17 17:07	1
Naphthalene	<120		250	120	ug/Kg		05/06/17 12:45	05/10/17 17:07	1
1,3,5-Trimethylbenzene	<15		25	15	ug/Kg		05/06/17 12:45	05/10/17 17:07	1
Toluene	<17		25	17	ug/Kg		05/06/17 12:45	05/10/17 17:07	1
Xylenes, Total	<30		75	30	ug/Kg		05/06/17 12:45	05/10/17 17:07	1
Wisconsin GRO	<2500		5000	2500	ug/Kg		05/06/17 12:45	05/10/17 17:07	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>a,a,a-Trifluorotoluene</i>	89		80 - 120	05/06/17 12:45	05/10/17 17:07	1
<i>a,a,a-Trifluorotoluene</i>	102		80 - 120	05/06/17 12:45	05/10/17 17:07	1

Lab Sample ID: MB 490-427841/43-A

Matrix: Solid

Analysis Batch: 428992

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 427841

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<18		25	18	ug/Kg		05/06/17 12:45	05/11/17 06:32	1
Ethylbenzene	<19		25	19	ug/Kg		05/06/17 12:45	05/11/17 06:32	1
Methyl tert-butyl ether	<12		25	12	ug/Kg		05/06/17 12:45	05/11/17 06:32	1
1,2,4-Trimethylbenzene	<15		25	15	ug/Kg		05/06/17 12:45	05/11/17 06:32	1
Naphthalene	<120		250	120	ug/Kg		05/06/17 12:45	05/11/17 06:32	1
1,3,5-Trimethylbenzene	<15		25	15	ug/Kg		05/06/17 12:45	05/11/17 06:32	1
Toluene	<17		25	17	ug/Kg		05/06/17 12:45	05/11/17 06:32	1
Xylenes, Total	<30		75	30	ug/Kg		05/06/17 12:45	05/11/17 06:32	1
Wisconsin GRO	<2500		5000	2500	ug/Kg		05/06/17 12:45	05/11/17 06:32	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>a,a,a-Trifluorotoluene</i>	86		80 - 120	05/06/17 12:45	05/11/17 06:32	1
<i>a,a,a-Trifluorotoluene</i>	96		80 - 120	05/06/17 12:45	05/11/17 06:32	1

Lab Sample ID: LCS 490-427841/44-A

Matrix: Solid

Analysis Batch: 428992

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 427841

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Benzene	5000	4940		ug/Kg		99	76 - 120
Ethylbenzene	5000	4820		ug/Kg		96	77 - 120
Methyl tert-butyl ether	5000	5520		ug/Kg		110	73 - 120
1,2,4-Trimethylbenzene	5000	4880		ug/Kg		98	60 - 140
Naphthalene	5000	5720		ug/Kg		114	74 - 127
1,3,5-Trimethylbenzene	5000	4900		ug/Kg		98	74 - 133
Toluene	5000	4920		ug/Kg		98	79 - 120
Wisconsin GRO	50000	58100		ug/Kg		116	80 - 120

TestAmerica Chicago

QC Sample Results

Client: TRC Environmental Corporation.
 Project/Site: STH 11 Kentucky to Kearney - 275788

TestAmerica Job ID: 500-127508-1

Method: WDNR - Wisconsin - Gasoline Range Organics (GC) (Continued)

Lab Sample ID: LCS 490-427841/44-A
Matrix: Solid
Analysis Batch: 428992

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 427841

Surrogate	LCS %Recovery	LCS Qualifier	Limits
<i>a,a,a-Trifluorotoluene</i>	95		80 - 120
<i>a,a,a-Trifluorotoluene</i>	104		80 - 120

Lab Sample ID: LCS 490-427841/44-A
Matrix: Solid
Analysis Batch: 428992

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 427841

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Benzene	5000	4930		ug/Kg		99	76 - 120
Ethylbenzene	5000	4910		ug/Kg		98	77 - 120
Methyl tert-butyl ether	5000	5530		ug/Kg		111	73 - 120
1,2,4-Trimethylbenzene	5000	4910		ug/Kg		98	60 - 140
Naphthalene	5000	5600		ug/Kg		112	74 - 127
1,3,5-Trimethylbenzene	5000	4950		ug/Kg		99	74 - 133
Toluene	5000	4970		ug/Kg		99	79 - 120
Wisconsin GRO	50000	57900		ug/Kg		116	80 - 120

Surrogate	LCS %Recovery	LCS Qualifier	Limits
<i>a,a,a-Trifluorotoluene</i>	93		80 - 120
<i>a,a,a-Trifluorotoluene</i>	101		80 - 120

Lab Sample ID: LCSD 490-427841/45-A
Matrix: Solid
Analysis Batch: 428992

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 427841

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	Limits	RPD	RPD Limit
Benzene	5000	4810		ug/Kg		96	76 - 120	3	27
Ethylbenzene	5000	4710		ug/Kg		94	77 - 120	2	49
Methyl tert-butyl ether	5000	5560		ug/Kg		111	73 - 120	1	31
1,2,4-Trimethylbenzene	5000	4750		ug/Kg		95	60 - 140	3	50
Naphthalene	5000	5470		ug/Kg		109	74 - 127	5	50
1,3,5-Trimethylbenzene	5000	4790		ug/Kg		96	74 - 133	2	42
Toluene	5000	4820		ug/Kg		96	79 - 120	2	37
Wisconsin GRO	50000	56100		ug/Kg		112	80 - 120	3	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
<i>a,a,a-Trifluorotoluene</i>	95		80 - 120
<i>a,a,a-Trifluorotoluene</i>	101		80 - 120

Lab Sample ID: LCSD 490-427841/45-A
Matrix: Solid
Analysis Batch: 428992

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 427841

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	Limits	RPD	RPD Limit
Benzene	5000	4890		ug/Kg		98	76 - 120	1	27
Ethylbenzene	5000	4780		ug/Kg		96	77 - 120	3	49
Methyl tert-butyl ether	5000	5730		ug/Kg		115	73 - 120	3	31

TestAmerica Chicago

QC Sample Results

Client: TRC Environmental Corporation.
Project/Site: STH 11 Kentucky to Kearney - 275788

TestAmerica Job ID: 500-127508-1

Method: WDNR - Wisconsin - Gasoline Range Organics (GC) (Continued)

Lab Sample ID: LCSD 490-427841/45-A
Matrix: Solid
Analysis Batch: 428992

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 427841

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,2,4-Trimethylbenzene	5000	4820		ug/Kg		96	60 - 140	2	50
Naphthalene	5000	5760		ug/Kg		115	74 - 127	3	50
1,3,5-Trimethylbenzene	5000	4860		ug/Kg		97	74 - 133	2	42
Toluene	5000	4900		ug/Kg		98	79 - 120	2	37
Wisconsin GRO	50000	59200		ug/Kg		118	80 - 120	2	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
a,a,a-Trifluorotoluene	91		80 - 120
a,a,a-Trifluorotoluene	101		80 - 120

Method: WI-GRO - Wisconsin - Gasoline Range Organics (GC)

Lab Sample ID: LB3 500-384046/21-A
Matrix: Solid
Analysis Batch: 384093

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 384046

Analyte	LB3 Result	LB3 Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
WI Gasoline Range Organics (C5-C10)	<500		1500	500	ug/Kg		05/06/17 01:30	05/07/17 20:24	50

Lab Sample ID: LCS 500-384046/23-A
Matrix: Solid
Analysis Batch: 384093

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 384046

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
WI Gasoline Range Organics (C5-C10)	20000	22800		ug/Kg		114	80 - 120

Lab Sample ID: LCSD 500-384046/24-A
Matrix: Solid
Analysis Batch: 384093

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 384046

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
WI Gasoline Range Organics (C5-C10)	20000	22900		ug/Kg		114	80 - 120	0	20

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

Lab Sample ID: MB 500-384456/1-A
Matrix: Solid
Analysis Batch: 384545

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 384456

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<5.9		17	5.9	ug/Kg		05/09/17 16:38	05/10/17 11:02	1
PCB-1221	<7.3		17	7.3	ug/Kg		05/09/17 16:38	05/10/17 11:02	1
PCB-1232	<7.3		17	7.3	ug/Kg		05/09/17 16:38	05/10/17 11:02	1
PCB-1242	<5.5		17	5.5	ug/Kg		05/09/17 16:38	05/10/17 11:02	1
PCB-1248	<6.6		17	6.6	ug/Kg		05/09/17 16:38	05/10/17 11:02	1
PCB-1254	<3.6		17	3.6	ug/Kg		05/09/17 16:38	05/10/17 11:02	1

TestAmerica Chicago

QC Sample Results

Client: TRC Environmental Corporation.
 Project/Site: STH 11 Kentucky to Kearney - 275788

TestAmerica Job ID: 500-127508-1

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

Lab Sample ID: MB 500-384456/1-A
Matrix: Solid
Analysis Batch: 384545

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 384456

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1260	<8.2		17	8.2	ug/Kg		05/09/17 16:38	05/10/17 11:02	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	76		49 - 129	05/09/17 16:38	05/10/17 11:02	1
DCB Decachlorobiphenyl	70		37 - 121	05/09/17 16:38	05/10/17 11:02	1

Lab Sample ID: LCS 500-384456/2-A
Matrix: Solid
Analysis Batch: 384545

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 384456

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
PCB-1016	167	135		ug/Kg		81	57 - 120
PCB-1260	167	130		ug/Kg		78	61 - 125

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Tetrachloro-m-xylene	76		49 - 129
DCB Decachlorobiphenyl	63		37 - 121

Method: WI-DRO - Wisconsin - Diesel Range Organics (GC)

Lab Sample ID: MB 500-383737/1-A
Matrix: Solid
Analysis Batch: 383957

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 383737

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
WI Diesel Range Organics (C10-C28)	<1.6		4.0	1.6	mg/Kg		05/04/17 11:15	05/05/17 14:27	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
n-Nonane	83		44 - 148	05/04/17 11:15	05/05/17 14:27	1

Lab Sample ID: LCS 500-383737/2-A
Matrix: Solid
Analysis Batch: 383957

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 383737

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
WI Diesel Range Organics (C10-C28)	20.0	14.9		mg/Kg		75	70 - 120

Surrogate	LCS %Recovery	LCS Qualifier	Limits
n-Nonane	77		44 - 148

QC Sample Results

Client: TRC Environmental Corporation.
Project/Site: STH 11 Kentucky to Kearney - 275788

TestAmerica Job ID: 500-127508-1

Method: WI-DRO - Wisconsin - Diesel Range Organics (GC) (Continued)

Lab Sample ID: LCSD 500-383737/3-A

Matrix: Solid
Analysis Batch: 383957

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA
Prep Batch: 383737

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	Limits	RPD	Limit
WI Diesel Range Organics (C10-C28)	20.0	16.3		mg/Kg		81	70 - 120	9	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
n-Nonane	71		44 - 148

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 500-384019/1-A

Matrix: Solid
Analysis Batch: 384724

Client Sample ID: Method Blank

Prep Type: Total/NA
Prep Batch: 384019

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	<0.23		0.50	0.23	mg/Kg		05/06/17 11:05	05/11/17 03:07	1

Lab Sample ID: LCS 500-384019/2-A

Matrix: Solid
Analysis Batch: 384724

Client Sample ID: Lab Control Sample

Prep Type: Total/NA
Prep Batch: 384019

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Lead	10.0	8.72		mg/Kg		87	80 - 120

Lab Sample ID: 500-127508-1 MS

Matrix: Solid
Analysis Batch: 384724

Client Sample ID: GP-12 (2-4)

Prep Type: Total/NA
Prep Batch: 384019

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Lead	19	F1	10.1	22.7	F1	mg/Kg	☼	39	75 - 125

Lab Sample ID: 500-127508-1 MSD

Matrix: Solid
Analysis Batch: 384724

Client Sample ID: GP-12 (2-4)

Prep Type: Total/NA
Prep Batch: 384019

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Lead	19	F1	10.2	23.0	F1	mg/Kg	☼	42	75 - 125	1	20

Lab Sample ID: 500-127508-1 DU

Matrix: Solid
Analysis Batch: 384724

Client Sample ID: GP-12 (2-4)

Prep Type: Total/NA
Prep Batch: 384019

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
Lead	19	F1	17.4		mg/Kg	☼	7	20

Lab Sample ID: MB 500-384021/1-A

Matrix: Solid
Analysis Batch: 384719

Client Sample ID: Method Blank

Prep Type: Total/NA
Prep Batch: 384021

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	<0.23		0.50	0.23	mg/Kg		05/06/17 11:07	05/10/17 18:20	1

TestAmerica Chicago

QC Sample Results

Client: TRC Environmental Corporation.
Project/Site: STH 11 Kentucky to Kearney - 275788

TestAmerica Job ID: 500-127508-1

Lab Sample ID: LCS 500-384021/2-A
Matrix: Solid
Analysis Batch: 384719

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 384021
%Rec.

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Lead	10.0	8.43		mg/Kg		84	80 - 120

Lab Sample ID: 500-127508-26 MS
Matrix: Solid
Analysis Batch: 384719

Client Sample ID: GP-24 (2-4)
Prep Type: Total/NA
Prep Batch: 384021
%Rec.

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Lead	27	V F1	10.2	37.2		mg/Kg	☼	103	75 - 125

Lab Sample ID: 500-127508-26 MSD
Matrix: Solid
Analysis Batch: 384719

Client Sample ID: GP-24 (2-4)
Prep Type: Total/NA
Prep Batch: 384021
%Rec.

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	Limits	RPD	RPD Limit
Lead	27	V F1	10.7	34.0	F1	mg/Kg	☼	69	75 - 125	9	20

Lab Sample ID: 500-127508-26 DU
Matrix: Solid
Analysis Batch: 384719

Client Sample ID: GP-24 (2-4)
Prep Type: Total/NA
Prep Batch: 384021
%Rec.

Analyte	Sample Result	Sample Qualifier	Spike Added	DU Result	DU Qualifier	Unit	D	%Rec	Limits	RPD	RPD Limit
Lead	27	V F1	10.7	23.2		mg/Kg	☼			14	20

Lab Sample ID: LCS 500-384187/2-A
Matrix: Solid
Analysis Batch: 384328

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 384187
%Rec.

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Arsenic	0.100	0.0958		mg/L		96	80 - 120
Barium	0.500	0.514		mg/L		103	80 - 120
Cadmium	0.0500	0.0503		mg/L		101	80 - 120
Chromium	0.200	0.194		mg/L		97	80 - 120
Copper	0.250	0.254		mg/L		102	80 - 120
Lead	0.100	0.0943		mg/L		94	80 - 120
Nickel	0.500	0.486		mg/L		97	80 - 120
Selenium	0.100	0.0946		mg/L		95	80 - 120
Silver	0.0500	0.0473		mg/L		95	80 - 120
Zinc	0.500	0.457		mg/L		91	80 - 120

Lab Sample ID: LB 500-383992/1-C
Matrix: Solid
Analysis Batch: 384328

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 384187

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.010		0.050	0.010	mg/L		05/08/17 08:10	05/08/17 20:33	1
Barium	<0.050		0.50	0.050	mg/L		05/08/17 08:10	05/08/17 20:33	1
Cadmium	<0.0020		0.0050	0.0020	mg/L		05/08/17 08:10	05/08/17 20:33	1
Chromium	<0.010		0.025	0.010	mg/L		05/08/17 08:10	05/08/17 20:33	1
Copper	<0.010		0.025	0.010	mg/L		05/08/17 08:10	05/08/17 20:33	1
Lead	<0.0075		0.050	0.0075	mg/L		05/08/17 08:10	05/08/17 20:33	1
Nickel	<0.010		0.025	0.010	mg/L		05/08/17 08:10	05/08/17 20:33	1

TestAmerica Chicago

QC Sample Results

Client: TRC Environmental Corporation.
 Project/Site: STH 11 Kentucky to Kearney - 275788

TestAmerica Job ID: 500-127508-1

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: LB 500-383992/1-C
 Matrix: Solid
 Analysis Batch: 384328

Client Sample ID: Method Blank
 Prep Type: TCLP
 Prep Batch: 384187

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Selenium	<0.020		0.050	0.020	mg/L		05/08/17 08:10	05/08/17 20:33	1
Silver	<0.010		0.025	0.010	mg/L		05/08/17 08:10	05/08/17 20:33	1
Zinc	<0.020		0.10	0.020	mg/L		05/08/17 08:10	05/08/17 20:33	1

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 500-384260/12-A
 Matrix: Solid
 Analysis Batch: 384394

Client Sample ID: Method Blank
 Prep Type: Total/NA
 Prep Batch: 384260

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		05/08/17 13:40	05/09/17 10:03	1

Lab Sample ID: LCS 500-384260/13-A
 Matrix: Solid
 Analysis Batch: 384394

Client Sample ID: Lab Control Sample
 Prep Type: Total/NA
 Prep Batch: 384260

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.00200	0.00212		mg/L		106	80 - 120

Lab Sample ID: LB 500-383992/1-D
 Matrix: Solid
 Analysis Batch: 384394

Client Sample ID: Method Blank
 Prep Type: TCLP
 Prep Batch: 384260

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		05/08/17 13:40	05/09/17 10:06	1

Method: 9014 - Cyanide

Lab Sample ID: MB 500-385217/1-A
 Matrix: Solid
 Analysis Batch: 385342

Client Sample ID: Method Blank
 Prep Type: Total/NA
 Prep Batch: 385217

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.17		0.50	0.17	mg/Kg		05/15/17 17:10	05/15/17 20:20	1

Lab Sample ID: LCS 500-385217/2-A
 Matrix: Solid
 Analysis Batch: 385342

Client Sample ID: Lab Control Sample
 Prep Type: Total/NA
 Prep Batch: 385217

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide, Total	5.00	4.75		mg/Kg		95	80 - 120

TestAmerica Chicago

QC Sample Results

Client: TRC Environmental Corporation.
 Project/Site: STH 11 Kentucky to Kearney - 275788

TestAmerica Job ID: 500-127508-1

Method: 9034 - Sulfide, Acid soluble and Insoluble (Titrimetric)

Lab Sample ID: MB 500-385245/1-A
Matrix: Solid
Analysis Batch: 385402

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 385245

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide	<4.7		10	4.7	mg/Kg		05/15/17 17:36	05/15/17 21:39	1

Lab Sample ID: LCS 500-385245/2-A
Matrix: Solid
Analysis Batch: 385402

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 385245

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Sulfide	338	335		mg/Kg		99	80 - 120

Lab Chronicle

Client: TRC Environmental Corporation.
Project/Site: STH 11 Kentucky to Kearney - 275788

TestAmerica Job ID: 500-127508-1

Client Sample ID: GP-12 (2-4)

Date Collected: 05/02/17 08:25

Date Received: 05/03/17 09:00

Lab Sample ID: 500-127508-1

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	427540	05/04/17 15:20	BAA	TAL NSH

Client Sample ID: GP-12 (2-4)

Date Collected: 05/02/17 08:25

Date Received: 05/03/17 09:00

Lab Sample ID: 500-127508-1

Matrix: Solid

Percent Solids: 86.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	WI GRO			427841	05/05/17 15:52	CU	TAL NSH
Total/NA	Analysis	WDNR		1	428992	05/10/17 17:34	A1B	TAL NSH
Total/NA	Prep	3050B			384019	05/06/17 11:05	JNH	TAL CHI
Total/NA	Analysis	6010B		1	384724	05/11/17 03:14	PJ1	TAL CHI

Client Sample ID: GP-12 (6-8)

Date Collected: 05/02/17 08:30

Date Received: 05/03/17 09:00

Lab Sample ID: 500-127508-2

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	427540	05/04/17 15:20	BAA	TAL NSH

Client Sample ID: GP-12 (6-8)

Date Collected: 05/02/17 08:30

Date Received: 05/03/17 09:00

Lab Sample ID: 500-127508-2

Matrix: Solid

Percent Solids: 83.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	WI GRO			427841	05/05/17 15:52	CU	TAL NSH
Total/NA	Analysis	WDNR		1	428992	05/10/17 18:01	A1B	TAL NSH
Total/NA	Prep	3050B			384019	05/06/17 11:05	JNH	TAL CHI
Total/NA	Analysis	6010B		1	384724	05/11/17 03:32	PJ1	TAL CHI

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

Date Collected: 05/02/17 09:15

Date Received: 05/03/17 09:00

Lab Sample ID: 500-127508-3

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	383751	05/04/17 12:11	LWN	TAL CHI

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

Date Collected: 05/02/17 09:15

Date Received: 05/03/17 09:00

Lab Sample ID: 500-127508-3

Matrix: Solid

Percent Solids: 81.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			384046	05/02/17 09:15	WRE	TAL CHI

TestAmerica Chicago

Lab Chronicle

Client: TRC Environmental Corporation.
Project/Site: STH 11 Kentucky to Kearney - 275788

TestAmerica Job ID: 500-127508-1

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

Date Collected: 05/02/17 09:15
Date Received: 05/03/17 09:00

Lab Sample ID: 500-127508-3

Matrix: Solid
Percent Solids: 81.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		50	385282	05/16/17 04:52	TCT	TAL CHI
Total/NA	Prep	3050B			384019	05/06/17 11:05	JNH	TAL CHI
Total/NA	Analysis	6010B		1	384724	05/11/17 03:38	PJ1	TAL CHI

Client Sample ID: GP-13 (6-8)

Date Collected: 05/02/17 09:20
Date Received: 05/03/17 09:00

Lab Sample ID: 500-127508-4

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	383751	05/04/17 12:11	LWN	TAL CHI

Client Sample ID: GP-13 (6-8)

Date Collected: 05/02/17 09:20
Date Received: 05/03/17 09:00

Lab Sample ID: 500-127508-4

Matrix: Solid
Percent Solids: 81.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			384046	05/02/17 09:20	WRE	TAL CHI
Total/NA	Analysis	8260B		50	385282	05/16/17 05:18	TCT	TAL CHI
Total/NA	Prep	3050B			384019	05/06/17 11:05	JNH	TAL CHI
Total/NA	Analysis	6010B		1	384724	05/11/17 03:48	PJ1	TAL CHI

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

Date Collected: 05/02/17 09:30
Date Received: 05/03/17 09:00

Lab Sample ID: 500-127508-5

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	383751	05/04/17 12:11	LWN	TAL CHI

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

Date Collected: 05/02/17 09:30
Date Received: 05/03/17 09:00

Lab Sample ID: 500-127508-5

Matrix: Solid
Percent Solids: 82.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			384046	05/02/17 09:30	WRE	TAL CHI
Total/NA	Analysis	8260B		50	385282	05/16/17 05:44	TCT	TAL CHI
Total/NA	Prep	3050B			384019	05/06/17 11:05	JNH	TAL CHI
Total/NA	Analysis	6010B		1	384724	05/11/17 03:51	PJ1	TAL CHI

TestAmerica Chicago

Lab Chronicle

Client: TRC Environmental Corporation.
Project/Site: STH 11 Kentucky to Kearney - 275788

TestAmerica Job ID: 500-127508-1

Client Sample ID: GP-14 (6-8)

Date Collected: 05/02/17 09:35

Date Received: 05/03/17 09:00

Lab Sample ID: 500-127508-6

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	383751	05/04/17 12:11	LWN	TAL CHI

Client Sample ID: GP-14 (6-8)

Date Collected: 05/02/17 09:35

Date Received: 05/03/17 09:00

Lab Sample ID: 500-127508-6

Matrix: Solid

Percent Solids: 73.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			384046	05/02/17 09:35	WRE	TAL CHI
Total/NA	Analysis	8260B		50	385282	05/16/17 06:11	TCT	TAL CHI
Total/NA	Prep	3050B			384019	05/06/17 11:05	JNH	TAL CHI
Total/NA	Analysis	6010B		1	384724	05/11/17 03:54	PJ1	TAL CHI

Client Sample ID: GP-15 (2-4)

Date Collected: 05/02/17 09:55

Date Received: 05/03/17 09:00

Lab Sample ID: 500-127508-7

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	427540	05/04/17 15:20	BAA	TAL NSH

Client Sample ID: GP-15 (2-4)

Date Collected: 05/02/17 09:55

Date Received: 05/03/17 09:00

Lab Sample ID: 500-127508-7

Matrix: Solid

Percent Solids: 92.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	WI GRO			427841	05/05/17 15:52	CU	TAL NSH
Total/NA	Analysis	WDNR		1	428992	05/10/17 18:28	A1B	TAL NSH
Total/NA	Prep	3050B			384019	05/06/17 11:05	JNH	TAL CHI
Total/NA	Analysis	6010B		1	384724	05/11/17 03:58	PJ1	TAL CHI

Client Sample ID: GP-15 (6-8)

Date Collected: 05/02/17 10:00

Date Received: 05/03/17 09:00

Lab Sample ID: 500-127508-8

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	427540	05/04/17 15:20	BAA	TAL NSH

Client Sample ID: GP-15 (6-8)

Date Collected: 05/02/17 10:00

Date Received: 05/03/17 09:00

Lab Sample ID: 500-127508-8

Matrix: Solid

Percent Solids: 85.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	WI GRO			427841	05/05/17 15:52	CU	TAL NSH

TestAmerica Chicago

Lab Chronicle

Client: TRC Environmental Corporation.
 Project/Site: STH 11 Kentucky to Kearney - 275788

TestAmerica Job ID: 500-127508-1

Client Sample ID: GP-15 (6-8)

Lab Sample ID: 500-127508-8

Date Collected: 05/02/17 10:00

Matrix: Solid

Date Received: 05/03/17 09:00

Percent Solids: 85.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	WDNR		1	428992	05/10/17 18:55	A1B	TAL NSH
Total/NA	Prep	3050B			384019	05/06/17 11:05	JNH	TAL CHI
Total/NA	Analysis	6010B		1	384724	05/11/17 04:02	PJ1	TAL CHI

Client Sample ID: GP-16 (2-4)

Lab Sample ID: 500-127508-9

Date Collected: 05/02/17 10:30

Matrix: Solid

Date Received: 05/03/17 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	427540	05/04/17 15:20	BAA	TAL NSH

Client Sample ID: GP-16 (2-4)

Lab Sample ID: 500-127508-9

Date Collected: 05/02/17 10:30

Matrix: Solid

Date Received: 05/03/17 09:00

Percent Solids: 81.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	WI GRO			427841	05/05/17 15:52	CU	TAL NSH
Total/NA	Analysis	WDNR		1	428992	05/10/17 19:22	A1B	TAL NSH
Total/NA	Prep	3050B			384019	05/06/17 11:05	JNH	TAL CHI
Total/NA	Analysis	6010B		1	384724	05/11/17 04:06	PJ1	TAL CHI

Client Sample ID: GP-16 (6-8)

Lab Sample ID: 500-127508-10

Date Collected: 05/02/17 10:35

Matrix: Solid

Date Received: 05/03/17 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	427540	05/04/17 15:20	BAA	TAL NSH

Client Sample ID: GP-16 (6-8)

Lab Sample ID: 500-127508-10

Date Collected: 05/02/17 10:35

Matrix: Solid

Date Received: 05/03/17 09:00

Percent Solids: 83.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	WI GRO			427841	05/05/17 15:52	CU	TAL NSH
Total/NA	Analysis	WDNR		1	428992	05/10/17 19:48	A1B	TAL NSH
Total/NA	Prep	3050B			384019	05/06/17 11:05	JNH	TAL CHI
Total/NA	Analysis	6010B		1	384724	05/11/17 04:10	PJ1	TAL CHI

Lab Chronicle

Client: TRC Environmental Corporation.
Project/Site: STH 11 Kentucky to Kearney - 275788

TestAmerica Job ID: 500-127508-1

Client Sample ID: GP-17 (2-4)

Lab Sample ID: 500-127508-11

Date Collected: 05/02/17 10:50

Matrix: Solid

Date Received: 05/03/17 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	427540	05/04/17 15:20	BAA	TAL NSH

Client Sample ID: GP-17 (2-4)

Lab Sample ID: 500-127508-11

Date Collected: 05/02/17 10:50

Matrix: Solid

Date Received: 05/03/17 09:00

Percent Solids: 91.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	WI GRO			427841	05/05/17 15:52	CU	TAL NSH
Total/NA	Analysis	WDNR		1	428992	05/10/17 20:15	A1B	TAL NSH
Total/NA	Prep	3050B			384019	05/06/17 11:05	JNH	TAL CHI
Total/NA	Analysis	6010B		1	384724	05/11/17 04:15	PJ1	TAL CHI

Client Sample ID: GP-17 (6-8)

Lab Sample ID: 500-127508-12

Date Collected: 05/02/17 10:55

Matrix: Solid

Date Received: 05/03/17 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	427540	05/04/17 15:20	BAA	TAL NSH

Client Sample ID: GP-17 (6-8)

Lab Sample ID: 500-127508-12

Date Collected: 05/02/17 10:55

Matrix: Solid

Date Received: 05/03/17 09:00

Percent Solids: 79.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	WI GRO			427841	05/05/17 15:52	CU	TAL NSH
Total/NA	Analysis	WDNR		1	428992	05/10/17 20:42	A1B	TAL NSH
Total/NA	Prep	3050B			384019	05/06/17 11:05	JNH	TAL CHI
Total/NA	Analysis	6010B		1	384827	05/11/17 13:32	PJ1	TAL CHI

Client Sample ID: GP-18 (2-4)

Lab Sample ID: 500-127508-13

Date Collected: 05/02/17 11:25

Matrix: Solid

Date Received: 05/03/17 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	427540	05/04/17 15:20	BAA	TAL NSH

Client Sample ID: GP-18 (2-4)

Lab Sample ID: 500-127508-13

Date Collected: 05/02/17 11:25

Matrix: Solid

Date Received: 05/03/17 09:00

Percent Solids: 94.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	WI GRO			427841	05/05/17 15:52	CU	TAL NSH

TestAmerica Chicago

Lab Chronicle

Client: TRC Environmental Corporation.
Project/Site: STH 11 Kentucky to Kearney - 275788

TestAmerica Job ID: 500-127508-1

Client Sample ID: GP-18 (2-4)

Date Collected: 05/02/17 11:25
Date Received: 05/03/17 09:00

Lab Sample ID: 500-127508-13

Matrix: Solid
Percent Solids: 94.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	WDNR		1	428992	05/10/17 21:09	A1B	TAL NSH
Total/NA	Prep	3050B			384019	05/06/17 11:05	JNH	TAL CHI
Total/NA	Analysis	6010B		1	384724	05/11/17 04:23	PJ1	TAL CHI

Client Sample ID: GP-18 (6-8)

Date Collected: 05/02/17 11:30
Date Received: 05/03/17 09:00

Lab Sample ID: 500-127508-14

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	427540	05/04/17 15:20	BAA	TAL NSH

Client Sample ID: GP-18 (6-8)

Date Collected: 05/02/17 11:30
Date Received: 05/03/17 09:00

Lab Sample ID: 500-127508-14

Matrix: Solid
Percent Solids: 93.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	WI GRO			427841	05/05/17 15:52	CU	TAL NSH
Total/NA	Analysis	WDNR		1	428992	05/10/17 21:36	A1B	TAL NSH
Total/NA	Prep	3050B			384019	05/06/17 11:05	JNH	TAL CHI
Total/NA	Analysis	6010B		1	384724	05/11/17 04:35	PJ1	TAL CHI

Client Sample ID: GP-19 (2-4)

Date Collected: 05/02/17 11:50
Date Received: 05/03/17 09:00

Lab Sample ID: 500-127508-15

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	427540	05/04/17 15:20	BAA	TAL NSH

Client Sample ID: GP-19 (2-4)

Date Collected: 05/02/17 11:50
Date Received: 05/03/17 09:00

Lab Sample ID: 500-127508-15

Matrix: Solid
Percent Solids: 95.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	WI GRO			427841	05/05/17 15:52	CU	TAL NSH
Total/NA	Analysis	WDNR		1	428992	05/10/17 23:23	A1B	TAL NSH
Total/NA	Prep	3050B			384019	05/06/17 11:05	JNH	TAL CHI
Total/NA	Analysis	6010B		1	384724	05/11/17 04:39	PJ1	TAL CHI

TestAmerica Chicago

Lab Chronicle

Client: TRC Environmental Corporation.
Project/Site: STH 11 Kentucky to Kearney - 275788

TestAmerica Job ID: 500-127508-1

Client Sample ID: GP-19 (6-8)

Lab Sample ID: 500-127508-16

Date Collected: 05/02/17 11:55

Matrix: Solid

Date Received: 05/03/17 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	427540	05/04/17 15:20	BAA	TAL NSH

Client Sample ID: GP-19 (6-8)

Lab Sample ID: 500-127508-16

Date Collected: 05/02/17 11:55

Matrix: Solid

Date Received: 05/03/17 09:00

Percent Solids: 82.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	WI GRO			427841	05/05/17 15:52	CU	TAL NSH
Total/NA	Analysis	WDNR		1	428992	05/10/17 23:50	A1B	TAL NSH
Total/NA	Prep	3050B			384019	05/06/17 11:05	JNH	TAL CHI
Total/NA	Analysis	6010B		1	384724	05/11/17 04:50	PJ1	TAL CHI

Client Sample ID: GP-20 (2-4)

Lab Sample ID: 500-127508-17

Date Collected: 05/02/17 12:20

Matrix: Solid

Date Received: 05/03/17 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	427540	05/04/17 15:20	BAA	TAL NSH

Client Sample ID: GP-20 (2-4)

Lab Sample ID: 500-127508-17

Date Collected: 05/02/17 12:20

Matrix: Solid

Date Received: 05/03/17 09:00

Percent Solids: 91.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	WI GRO			427841	05/05/17 15:52	CU	TAL NSH
Total/NA	Analysis	WDNR		1	428992	05/11/17 00:17	A1B	TAL NSH

Client Sample ID: GP-20 (6-8)

Lab Sample ID: 500-127508-18

Date Collected: 05/02/17 12:25

Matrix: Solid

Date Received: 05/03/17 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	427540	05/04/17 15:20	BAA	TAL NSH

Client Sample ID: GP-20 (6-8)

Lab Sample ID: 500-127508-18

Date Collected: 05/02/17 12:25

Matrix: Solid

Date Received: 05/03/17 09:00

Percent Solids: 90.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	WI GRO			427841	05/05/17 15:52	CU	TAL NSH
Total/NA	Analysis	WDNR		1	428992	05/11/17 00:44	A1B	TAL NSH

TestAmerica Chicago

Lab Chronicle

Client: TRC Environmental Corporation.
Project/Site: STH 11 Kentucky to Kearney - 275788

TestAmerica Job ID: 500-127508-1

Client Sample ID: GP-20 (14-16)

Lab Sample ID: 500-127508-19

Date Collected: 05/02/17 12:30

Matrix: Solid

Date Received: 05/03/17 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	427540	05/04/17 15:20	BAA	TAL NSH

Client Sample ID: GP-20 (14-16)

Lab Sample ID: 500-127508-19

Date Collected: 05/02/17 12:30

Matrix: Solid

Date Received: 05/03/17 09:00

Percent Solids: 86.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	WI GRO			427841	05/05/17 15:52	CU	TAL NSH
Total/NA	Analysis	WDNR		1	428992	05/11/17 12:11	A1B	TAL NSH

Client Sample ID: GP-21 (2-4)

Lab Sample ID: 500-127508-20

Date Collected: 05/02/17 12:50

Matrix: Solid

Date Received: 05/03/17 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	427540	05/04/17 15:20	BAA	TAL NSH

Client Sample ID: GP-21 (2-4)

Lab Sample ID: 500-127508-20

Date Collected: 05/02/17 12:50

Matrix: Solid

Date Received: 05/03/17 09:00

Percent Solids: 80.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	WI GRO			427841	05/05/17 15:52	CU	TAL NSH
Total/NA	Analysis	WDNR		1	428992	05/11/17 09:30	A1B	TAL NSH

Client Sample ID: GP-21 (6-8)

Lab Sample ID: 500-127508-21

Date Collected: 05/02/17 12:55

Matrix: Solid

Date Received: 05/03/17 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	427540	05/04/17 15:20	BAA	TAL NSH

Client Sample ID: GP-21 (6-8)

Lab Sample ID: 500-127508-21

Date Collected: 05/02/17 12:55

Matrix: Solid

Date Received: 05/03/17 09:00

Percent Solids: 81.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	WI GRO			427841	05/05/17 15:52	CU	TAL NSH
Total/NA	Analysis	WDNR		20	428992	05/11/17 10:24	A1B	TAL NSH
Total/NA	Prep	WI GRO			427841	05/05/17 15:52	CU	TAL NSH
Total/NA	Analysis	WDNR		1	428992	05/11/17 10:51	A1B	TAL NSH

TestAmerica Chicago

Lab Chronicle

Client: TRC Environmental Corporation.
Project/Site: STH 11 Kentucky to Kearney - 275788

TestAmerica Job ID: 500-127508-1

Client Sample ID: GP-22 (2-4)

Lab Sample ID: 500-127508-22

Date Collected: 05/02/17 13:35

Matrix: Solid

Date Received: 05/03/17 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	384965	05/12/17 14:00	LWN	TAL CHI

Client Sample ID: GP-22 (2-4)

Lab Sample ID: 500-127508-22

Date Collected: 05/02/17 13:35

Matrix: Solid

Date Received: 05/03/17 09:00

Percent Solids: 85.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	WI GRO			427841	05/05/17 15:52	CU	TAL NSH
Total/NA	Analysis	WDNR		1	428992	05/11/17 02:31	A1B	TAL NSH
Total/NA	Prep	WI GRO			427841	05/05/17 15:52	CU	TAL NSH
Total/NA	Analysis	WDNR		1	428992	05/11/17 09:57	A1B	TAL NSH
Total/NA	Prep	3050B			384019	05/06/17 11:05	JNH	TAL CHI
Total/NA	Analysis	6010B		1	384724	05/11/17 04:54	PJ1	TAL CHI

Client Sample ID: GP-22 (6-8)

Lab Sample ID: 500-127508-23

Date Collected: 05/02/17 13:40

Matrix: Solid

Date Received: 05/03/17 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	427540	05/04/17 15:20	BAA	TAL NSH

Client Sample ID: GP-22 (6-8)

Lab Sample ID: 500-127508-23

Date Collected: 05/02/17 13:40

Matrix: Solid

Date Received: 05/03/17 09:00

Percent Solids: 93.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	WI GRO			427841	05/05/17 15:52	CU	TAL NSH
Total/NA	Analysis	WDNR		1	428992	05/11/17 02:58	A1B	TAL NSH
Total/NA	Prep	3050B			384019	05/06/17 11:05	JNH	TAL CHI
Total/NA	Analysis	6010B		1	384724	05/11/17 04:57	PJ1	TAL CHI

Client Sample ID: GP-23 (2-4)

Lab Sample ID: 500-127508-24

Date Collected: 05/02/17 13:50

Matrix: Solid

Date Received: 05/03/17 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	427540	05/04/17 15:20	BAA	TAL NSH

TestAmerica Chicago

Lab Chronicle

Client: TRC Environmental Corporation.
 Project/Site: STH 11 Kentucky to Kearney - 275788

TestAmerica Job ID: 500-127508-1

Client Sample ID: GP-23 (2-4)

Lab Sample ID: 500-127508-24

Date Collected: 05/02/17 13:50

Matrix: Solid

Date Received: 05/03/17 09:00

Percent Solids: 89.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	WI GRO			427841	05/05/17 15:52	CU	TAL NSH
Total/NA	Analysis	WDNR		1	428992	05/11/17 03:25	A1B	TAL NSH
Total/NA	Prep	3050B			384019	05/06/17 11:05	JNH	TAL CHI
Total/NA	Analysis	6010B		1	384724	05/11/17 05:01	PJ1	TAL CHI

Client Sample ID: GP-23 (6-8)

Lab Sample ID: 500-127508-25

Date Collected: 05/02/17 13:05

Matrix: Solid

Date Received: 05/03/17 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			384086	05/06/17 13:35	RMP	TAL CHI
TCLP	Analysis	8260B		20	384262	05/09/17 02:01	JMP	TAL CHI
TCLP	Leach	1311			383992	05/05/17 15:05	RMP	TAL CHI
TCLP	Prep	3510C			384171	05/08/17 07:42	JJH	TAL CHI
TCLP	Analysis	8270D		1	384241	05/08/17 18:41	GES	TAL CHI
TCLP	Leach	1311			383992	05/05/17 15:05	RMP	TAL CHI
TCLP	Prep	3010A			384187	05/08/17 08:10	JEF	TAL CHI
TCLP	Analysis	6010B		1	384328	05/08/17 21:55	PJ1	TAL CHI
TCLP	Leach	1311			383992	05/05/17 15:05	RMP	TAL CHI
TCLP	Prep	7470A			384260	05/08/17 13:40	MJD	TAL CHI
TCLP	Analysis	7470A		1	384394	05/09/17 10:16	MJD	TAL CHI
Total/NA	Analysis	1010		1	385288		ADK	TAL CHI
						(Start) 05/15/17 14:30		
						(End) 05/15/17 16:22		
Total/NA	Prep	9010B			385217	05/15/17 17:10	MAN	TAL CHI
Total/NA	Analysis	9014		1	385342		MAN	TAL CHI
						(Start) 05/15/17 20:21		
						(End) 05/15/17 20:22		
Total/NA	Prep	9030B			385245	05/15/17 17:36	JBj	TAL CHI
Total/NA	Analysis	9034		1	385402	05/15/17 21:53	JBj	TAL CHI
Total/NA	Analysis	9045C		1	384553		SMO	TAL CHI
						(Start) 05/09/17 16:08		
						(End) 05/09/17 16:10		
Total/NA	Analysis	9095A		1	385286		ADK	TAL CHI
						(Start) 05/15/17 21:43		
						(End) 05/15/17 21:46		
Total/NA	Analysis	Moisture		1	383751	05/04/17 12:11	LWN	TAL CHI
Total/NA	Analysis	Moisture		1	427540	05/04/17 15:20	BAA	TAL NSH
Total/NA	Analysis	SM 2710F		1	385047		ADK	TAL CHI
						(Start) 05/12/17 22:19		
						(End) 05/12/17 22:24		

Lab Chronicle

Client: TRC Environmental Corporation.
Project/Site: STH 11 Kentucky to Kearney - 275788

TestAmerica Job ID: 500-127508-1

Client Sample ID: GP-23 (6-8)

Lab Sample ID: 500-127508-25

Date Collected: 05/02/17 13:05

Matrix: Solid

Date Received: 05/03/17 09:00

Percent Solids: 85.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	WI GRO			427841	05/05/17 15:52	CU	TAL NSH
Total/NA	Analysis	WDNR		1	428992	05/11/17 06:59	A1B	TAL NSH

Client Sample ID: GP-23 (6-8)

Lab Sample ID: 500-127508-25

Date Collected: 05/02/17 13:05

Matrix: Solid

Date Received: 05/03/17 09:00

Percent Solids: 86.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			384456	05/09/17 16:38	JP1	TAL CHI
Total/NA	Analysis	8082A		1	384545	05/10/17 14:21	BJH	TAL CHI
Total/NA	Prep	WI DRO PREP			383737	05/04/17 11:15	LMC	TAL CHI
Total/NA	Analysis	WI-DRO		1	383957	05/05/17 17:25	SAW	TAL CHI
Total/NA	Prep	3050B			384019	05/06/17 11:05	JNH	TAL CHI
Total/NA	Analysis	6010B		1	384724	05/11/17 05:06	PJ1	TAL CHI

Client Sample ID: GP-24 (2-4)

Lab Sample ID: 500-127508-26

Date Collected: 05/02/17 14:15

Matrix: Solid

Date Received: 05/03/17 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	383751	05/04/17 12:11	LWN	TAL CHI

Client Sample ID: GP-24 (2-4)

Lab Sample ID: 500-127508-26

Date Collected: 05/02/17 14:15

Matrix: Solid

Date Received: 05/03/17 09:00

Percent Solids: 86.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			384046	05/02/17 14:15	WRE	TAL CHI
Total/NA	Analysis	8260B		50	385282	05/16/17 06:37	TCT	TAL CHI
Total/NA	Prep	3050B			384021	05/06/17 11:07	JNH	TAL CHI
Total/NA	Analysis	6010B		1	384719	05/10/17 18:27	PJ1	TAL CHI

Client Sample ID: GP-24 (6-8)

Lab Sample ID: 500-127508-27

Date Collected: 05/02/17 14:20

Matrix: Solid

Date Received: 05/03/17 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	383751	05/04/17 12:11	LWN	TAL CHI

TestAmerica Chicago

Lab Chronicle

Client: TRC Environmental Corporation.
Project/Site: STH 11 Kentucky to Kearney - 275788

TestAmerica Job ID: 500-127508-1

Client Sample ID: GP-24 (6-8)

Lab Sample ID: 500-127508-27

Date Collected: 05/02/17 14:20

Matrix: Solid

Date Received: 05/03/17 09:00

Percent Solids: 81.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			384046	05/02/17 14:20	WRE	TAL CHI
Total/NA	Analysis	8260B		50	385282	05/16/17 07:03	TCT	TAL CHI
Total/NA	Prep	3050B			384021	05/06/17 11:07	JNH	TAL CHI
Total/NA	Analysis	6010B		1	384719	05/10/17 18:54	PJ1	TAL CHI

Client Sample ID: GP-25 (2-4)

Lab Sample ID: 500-127508-28

Date Collected: 05/02/17 14:35

Matrix: Solid

Date Received: 05/03/17 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	383751	05/04/17 12:11	LWN	TAL CHI

Client Sample ID: GP-25 (2-4)

Lab Sample ID: 500-127508-28

Date Collected: 05/02/17 14:35

Matrix: Solid

Date Received: 05/03/17 09:00

Percent Solids: 86.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			384046	05/02/17 14:35	WRE	TAL CHI
Total/NA	Analysis	8260B		50	385282	05/16/17 07:29	TCT	TAL CHI
Total/NA	Prep	3050B			384021	05/06/17 11:07	JNH	TAL CHI
Total/NA	Analysis	6010B		1	384719	05/10/17 18:59	PJ1	TAL CHI

Client Sample ID: GP-25 (6-8)

Lab Sample ID: 500-127508-29

Date Collected: 05/02/17 14:40

Matrix: Solid

Date Received: 05/03/17 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	383751	05/04/17 12:11	LWN	TAL CHI

Client Sample ID: GP-25 (6-8)

Lab Sample ID: 500-127508-29

Date Collected: 05/02/17 14:40

Matrix: Solid

Date Received: 05/03/17 09:00

Percent Solids: 81.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	WI GRO			384046	05/02/17 14:40	WRE	TAL CHI
Total/NA	Analysis	8260B		50	385282	05/16/17 07:55	TCT	TAL CHI
Total/NA	Prep	WI GRO			384046	05/02/17 14:40	WRE	TAL CHI
Total/NA	Analysis	WI-GRO		1000	384093	05/07/17 22:05	WRE	TAL CHI
Total/NA	Prep	WI DRO PREP			383737	05/04/17 11:15	LMC	TAL CHI
Total/NA	Analysis	WI-DRO		1	383957	05/05/17 18:01	SAW	TAL CHI
Total/NA	Prep	3050B			384021	05/06/17 11:07	JNH	TAL CHI
Total/NA	Analysis	6010B		1	384719	05/10/17 19:03	PJ1	TAL CHI

TestAmerica Chicago

Lab Chronicle

Client: TRC Environmental Corporation.
Project/Site: STH 11 Kentucky to Kearney - 275788

TestAmerica Job ID: 500-127508-1

Client Sample ID: Trip Blank

Lab Sample ID: 500-127508-30

Date Collected: 05/02/17 00:00

Matrix: Solid

Date Received: 05/03/17 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	383751	05/04/17 12:11	LWN	TAL CHI

Client Sample ID: Trip Blank

Lab Sample ID: 500-127508-30

Date Collected: 05/02/17 00:00

Matrix: Solid

Date Received: 05/03/17 09:00

Percent Solids: 100.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			384046	05/02/17 00:00	WRE	TAL CHI
Total/NA	Analysis	8260B		50	385282	05/16/17 01:22	TCT	TAL CHI

Laboratory References:

SFAL = SF Analytical Laboratories, 2345 South 170th Street, New Berlin, WI 53151

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

TAL NSH = TestAmerica Nashville, 2960 Foster Creighton Drive, Nashville, TN 37204, TEL (615)726-0177

Accreditation/Certification Summary

Client: TRC Environmental Corporation.
Project/Site: STH 11 Kentucky to Kearney - 275788

TestAmerica Job ID: 500-127508-1

Laboratory: TestAmerica Chicago

The accreditations/certifications listed below are applicable to this report.

Authority	Program	EPA Region	Identification Number	Expiration Date
Wisconsin	State Program	5	999580010	08-31-17

Laboratory: TestAmerica Nashville

The accreditations/certifications listed below are applicable to this report.

Authority	Program	EPA Region	Identification Number	Expiration Date
Wisconsin	State Program	5	998020430	08-31-17

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15
- 16

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: _____
Address: _____
Phone: _____
Fax: _____
E-Mail: _____

Bill To _____ (optional)
Contact: _____
Company: _____
Address: _____
Address: _____
Phone: _____
Fax: _____
PO#/Reference# _____

Chain of Custody Record

Lab Job #: 500-127508
Chain of Custody Number: _____
Page 1 of 3
Temperature °C of Cooler: (4.2)(5.4)

Client		Client Project #		Preservative		Parameter		Matrix		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	
TRC		275788		1	8	1	1	B			
Project Name		Lab Project #		# of Containers		Matrix		Comments			
STH II - Kentucky to Kearney											
Project Location/State		Lab Project #									
Rearse, WI											
Sampler		Lab PM									
M. Karnick											
Lab ID	MS/MSD	Sample ID	Date	Time	# of Containers	Matrix	1	8	1	1	B
1		GP-12 (2-4)	8/02	825			XX	XX			
2		GP-12 (6-8)		830			XX	XX			
3		GP-13 (2-4)		915							
4		GP-13 (6-8)		920							
5		GP-14 (2-4)		930							
6		GP-14 (6-8)		935							
7		GP-15 (2-4)		955			XX	XX			
8		GP-15 (6-8)		1000			XX	XX			
9		GP-16 (2-4)		1030			XX	XX			
10		GP-16 (6-8)		1035			XX	XX			

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	Company	Date	Time	Received By	Company	Date	Time
<i>[Signature]</i>	TRC	8/02	1630	<i>[Signature]</i>	TA	05/03/17	0900
Relinquished By	Company	Date	Time	Received By	Company	Date	Time
Relinquished By	Company	Date	Time	Received By	Company	Date	Time

Lab Courier
Shipped
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:



500-127508 COC

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: _____
 Address: _____
 Phone: _____
 Fax: _____
 E-Mail: _____

Bill To (optional)
 Contact: _____
 Company: _____
 Address: _____
 Address: _____
 Phone: _____
 Fax: _____
 PO#/Reference# _____

Chain of Custody Record

Lab Job #: 500-127508
 Chain of Custody Number: _____
 Page 2 of 3
 Temperature °C of Cooler: _____

Client		Client Project #		Preservative		Parameter		Comments		
TRC		275793		1 1 8				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		Lab Project #		# of Containers		Matrix		Comments		
STH 11 - Kentucky to Kentucky										
Project Location/State		Lab Project #		# of Containers		Matrix		Comments		
Ducane, WI										
Sampler		Lab PM		# of Containers		Matrix		Comments		
M. Karpus										
Lab ID	MS/MSD	Sample ID	Date	Time	# of Containers	Matrix	Procs +	NaP	GPO	Lead
11		GP-17 (2-4)	5/02	1050	5		X			
12		GP-17 (6-8)		1055			X			
13		GP-18 (2-4)		1125			X	X		
14		GP-18 (6-8)		1130			X			
15		GP-19 (2-4)		1150			X			
16		GP-19 (6-8)		1155			X			
17		GP-20 (2-4)		1220	2		X			
18		GP-20 (6-8)		1225	2		X			
19		GP-20 (14-16)		1230	2		X			
20		GP-21 (2-4)		1250	2		X			

Turnaround Time Required (Business Days)
 ___ 1 Day ___ 2 Days ___ 5 Days ___ 7 Days 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>MJK</u>	Company: <u>TRC</u>	Date: <u>5/02</u>	Time: <u>1630</u>	Received By: <u>[Signature]</u>	Company: <u>TA</u>	Date: <u>05/03/07</u>	Time: <u>0900</u>	Lab Courier: _____
Relinquished By: _____	Company: _____	Date: _____	Time: _____	Received By: _____	Company: _____	Date: _____	Time: _____	Shipped: _____
Relinquished By: _____	Company: _____	Date: _____	Time: _____	Received By: _____	Company: _____	Date: _____	Time: _____	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: _____
 Company: _____
 Address: _____
 Address: _____
 Phone: _____
 Fax: _____
 E-Mail: _____

Bill To (optional)
 Contact: _____
 Company: _____
 Address: _____
 Address: _____
 Phone: _____
 Fax: _____
 PO#/Reference# _____

Chain of Custody Record

Lab Job #: 500-127508
 Chain of Custody Number: _____
 Page 3 of 3
 Temperature °C of Cooler: _____

Client		Client Project #		Preservative		Parameter		Matrix		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		Lab Project #		Parameter		Matrix		Comments					
Project Location/State		Lab PM		Parameter		Matrix							
TRC	257 275788	STW II - Keweenaw to Keweenaw		1	1	8	8	1	8				
Keweenaw, WI													
M. Kamies													
Lab ID	MS/MSD	Sample ID	Date	Time	# of Containers	Matrix	Lead	DRO	Volcs	Protocol B	Comments		
21		GP-21 (6-8)	5/02	1255	2	S	X	X					
22		GP-22 (2-4)	↓	1335	↓	↓	X	X					
23		GP-22 (6-8)		1340			X	X					
24		GP-23 (2-4)		1350			X	X					
25		GP-23 (6-8)		1355			X	X		X		X	
26		GP-24 (2-4)		1415			X	X		X	X		
27		GP-24 (6-8)		1420			X	X		X	X		
28		GP-25 (2-4)		1435			X	X		X	X		
29		GP-25 (6-8)		1440			X	X		X	X		
30		TRIP BLANK						2	-				

Turnaround Time Required (Business Days)
 ___ 1 Day ___ 2 Days ___ 5 Days ___ 7 Days 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 <i>[Signature]</i>	Company TRC	Date 5/02/17	Time 1630	Received By <i>[Signature]</i>	Company TA	Date 05/03/17	Time 0900
Relinquished By	Company	Date	Time	Received By	Company	Date	Time
Relinquished By	Company	Date	Time	Received By	Company	Date	Time

Lab Courier: _____
 Shipped: _____
 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:

Fredrick, Sandie

From: Kahrilas, Miranda <MKahrilas@trcsolutions.com>
Sent: Wednesday, May 03, 2017 4:38 PM
To: Fredrick, Sandie; Bergmann, Bryan
Subject: RE: TestAmerica Sample Login Confirmation files from 500-127508 STH 11 Kentucky to Kearney - 275788

Sandie,

Please add GRO to the sample analysis for Lab ID 29, Sample ID GP-25 (6-8). I believe you would be able to take this from the methanol kit that was already included, but please let me know if you need me to send over another.

Thanks!
Miranda

From: Fredrick, Sandie [<mailto:sandie.fredrick@testamericainc.com>]
Sent: Wednesday, May 03, 2017 1:45 PM
To: Bergmann, Bryan <BBergmann@trcsolutions.com>; Kahrilas, Miranda <MKahrilas@trcsolutions.com>
Subject: TestAmerica Sample Login Confirmation files from 500-127508 STH 11 Kentucky to Kearney - 275788

Hello Bryan/Miranda,

Attached, please find the Sample Confirmation files for job 500-127508; STH 11 Kentucky to Kearney - 275788

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: [336983]
Attachments: 3

1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16

ORIGIN ID: RRLA (262) 901-2153
MIRANDA KAHLAS
TRC ENVIRONMENTAL
150 N PATRICK BLVD, SUITE 180
BROOKFIELD, WI 53045
UNITED STATES US

SHIP DATE: 02MAY17
ACTWGT: 25.00 LB
CAD: 110326482INLET3850

BILL RECIPIENT

TO ATTN: SAMPLE RECEIVING
TEST AMERICA - CHICAGO
2417 BOND ST



UNIVERSITY PARK IL 60484
REF: (708) 534-5200
PO: N.V.

500-127508 Waybill

546.118734.63C1



J171117021401uv

1 of 2
TRK# 7790 4639 2173
0201
MASTER

WED - 03 MAY 10:30A
PRIORITY OVERNIGHT

79 JOTA

60484
ORD
IL-US

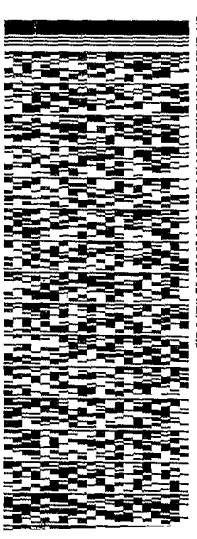
ORIGIN ID: RRLA (262) 901-2153
MIRANDA KAHLAS
TRC ENVIRONMENTAL
150 N PATRICK BLVD, SUITE 180
BROOKFIELD, WI 53045
UNITED STATES US

SHIP DAT
ACTWGT
CAD: 110

TO ATTN: SAMPLE RECEIVING
TEST AMERICA - CHICAGO
2417 BOND ST

UNIVERSITY PARK IL 60484
REF: (708) 534-5200
PO: N.V.

DEPT:



RT 510
ST 2

2 of 2
MP# 7790 4639 2081
0263
Mst# 7790 4639 2173
0201

WED - 1
PRIORITY

79 JOTA



COOLER RECEIPT FORM



Cooler Received/Opened On 5/4/2017 @ 0945

Time Samples Removed From Cooler 13:50 Time Samples Placed In Storage _____ (2 Hour Window)

1. Tracking # 3984 (last 4 digits, FedEx) Courier: FedEx

IR Gun ID 160656843 pH Strip Lot _____ Chlorine Strip Lot _____

2. Temperature of rep. sample or temp blank when opened: 27 Degrees Celsius

3. If Item #2 temperature is 0°C or less, was the representative sample or temp blank frozen? YES NO NA

4. Were custody seals on outside of cooler? YES...NO...NA

If yes, how many and where: 2 front / back

5. Were the seals intact, signed, and dated correctly? YES...NO...NA

6. Were custody papers inside cooler? YES...NO...NA

I certify that I opened the cooler and answered questions 1-6 (initial) HZG

7. Were custody seals on containers: YES NO and Intact YES...NO...NA

Were these signed and dated correctly? YES...NO...NA

8. Packing mat'l used? Bubblewrap Plastic bag Peanuts Vermiculite Foam Insert Paper Other None

9. Cooling process: Ice Ice-pack Ice (direct contact) Dry ice Other None

10. Did all containers arrive in good condition (unbroken)? YES...NO...NA

11. Were all container labels complete (#, date, signed, pres., etc)? YES...NO...NA

12. Did all container labels and tags agree with custody papers? YES...NO...NA

13a. Were VOA vials received? YES...NO...NA

b. Was there any observable headspace present in any VOA vial? YES...NO...NA

14. Was there a Trip Blank in this cooler? YES...NO...NA If multiple coolers, sequence # _____

I certify that I unloaded the cooler and answered questions 7-14 (initial) [Signature]

15a. On pres'd bottles, did pH test strips suggest preservation reached the correct pH level? YES...NO...NA

b. Did the bottle labels indicate that the correct preservatives were used YES...NO...NA

16. Was residual chlorine present? YES...NO...NA

I certify that I checked for chlorine and pH as per SOP and answered questions 15-16 (initial) [Signature]

17. Were custody papers properly filled out (ink, signed, etc)? YES...NO...NA

18. Did you sign the custody papers in the appropriate place? YES...NO...NA

19. Were correct containers used for the analysis requested? YES...NO...NA

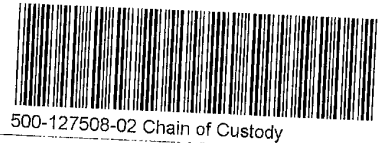
20. Was sufficient amount of sample sent in each container? YES...NO...NA

I certify that I entered this project into LIMS and answered questions 17-20 (initial) [Signature]

I certify that I attached a label with the unique LIMS number to each container (initial) [Signature]

21. Were there Non-Conformance issues at login? YES...NO Was a NCM generated? YES...NO...# _____

COOLER RECEIPT FORM



Cooler Received/Opened On 5/4/2017 @ 0945

Time Samples Removed From Cooler 13:50 Time Samples Placed In Storage _____ (2 Hour Window)

1. Tracking # 3984 (last 4 digits, FedEx) Courier: FedEx

IR Gun ID 160656843 pH Strip Lot _____ Chlorine Strip Lot _____

2. Temperature of rep. sample or temp blank when opened: 27 Degrees Celsius

3. If Item #2 temperature is 0°C or less, was the representative sample or temp blank frozen? YES NO NA

4. Were custody seals on outside of cooler? YES...NO...NA

If yes, how many and where: 2 front/back

5. Were the seals intact, signed, and dated correctly? YES...NO...NA

6. Were custody papers inside cooler? YES...NO...NA

I certify that I opened the cooler and answered questions 1-6 (initial) HZG

7. Were custody seals on containers: YES NO and Intact YES...NO...NA

Were these signed and dated correctly? YES...NO...NA

8. Packing mat'l used? Bubblewrap Plastic bag Peanuts Vermiculite Foam Insert Paper Other None

9. Cooling process: Ice Ice-pack Ice (direct contact) Dry ice Other None

10. Did all containers arrive in good condition (unbroken)? YES...NO...NA

11. Were all container labels complete (#, date, signed, pres., etc)? YES...NO...NA

12. Did all container labels and tags agree with custody papers? YES...NO...NA

13a. Were VOA vials received? YES...NO...NA

b. Was there any observable headspace present in any VOA vial? YES...NO...NA

14. Was there a Trip Blank in this cooler? YES...NO...NA If multiple coolers, sequence # _____

I certify that I unloaded the cooler and answered questions 7-14 (initial) _____

15a. On pres'd bottles, did pH test strips suggest preservation reached the correct pH level? YES...NO...NA

b. Did the bottle labels indicate that the correct preservatives were used YES...NO...NA

16. Was residual chlorine present? YES...NO...NA

I certify that I checked for chlorine and pH as per SOP and answered questions 15-16 (initial) _____

17. Were custody papers properly filled out (ink, signed, etc)? YES...NO...NA

18. Did you sign the custody papers in the appropriate place? YES...NO...NA

19. Were correct containers used for the analysis requested? YES...NO...NA

20. Was sufficient amount of sample sent in each container? YES...NO...NA

I certify that I entered this project into LIMS and answered questions 17-20 (initial) _____

I certify that I attached a label with the unique LIMS number to each container (initial) _____

21. Were there Non-Conformance issues at login? YES...NO Was a NCM generated? YES...NO...# _____



TestAmerica Chicago
 2417 Bond Street
 University Park, IL 60484
 Phone (708) 534-5200 Fax (708) 534-5211

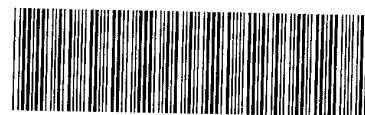
Chain of Custody Record

Loc: 500
 127508



Client Information (Sub Contract Lab)		Sampler:	Lab Piv:	COC No: 500-86709.2							
Client Contact:	Shipping/Receiving:	Phone:	Frederick, Sandie J	Page: 2 of 3							
Company: TestAmerica Laboratories, Inc		Due Date Requested:	5/4/2017	Page: 2 of 3							
Address: 2960 Foster Creighton Drive,		City:	Nashville	Job #:	500-127508-1						
State Zip: TN, 37204		PO #:		Preservation Codes:	A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NH4SO4 F - MeOH G - Archlor H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA M - Hexane N - None O - ASNQ2 P - Na2O/S Q - Na2S2O3 R - Na2S2O8 S - H2SO4 T - TSP Dodecalhydrate U - Acetone V - MCAA W - pH 4-5 Z - other (specify)						
Phone: 615-726-0177(Tel) 615-726-3404(Fax)		Project #:	50010540	Special Instructions/Note:							
Email:		SSOW#:									
Project Name: STH 11 Kentucky to Kearney - 275788											
Site:											
Analysis Requested											
Sample Identification - Client ID (Lab ID)		Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (Vinylidene, Semisolid, Organosolids, UPL/USMA, Asph)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	Moisture/ Percent Moisture/Solids	WI_GRO/WIGRO_P_FM PVOC+NAP	WI_GRO/WIGRO_P_FM (MOD) PVOC+NAP+GRO	Total Number of containers
GP-18 (6-8) (500-127508-14)		5/2/17	11:30	Solid	Central	X	X	X			2
GP-19 (2-4) (500-127508-15)		5/2/17	11:50	Solid	Central	X	X	X			2
GP-19 (6-8) (500-127508-16)		5/2/17	11:55	Solid	Central	X	X	X			2
GP-20 (2-4) (500-127508-17)		5/2/17	12:20	Solid	Central	X	X	X			2
GP-20 (6-8) (500-127508-18)		5/2/17	12:25	Solid	Central	X	X	X			2
GP-20 (14-16) (500-127508-19)		5/2/17	12:30	Solid	Central	X	X	X			2
GP-21 (2-4) (500-127508-20)		5/2/17	12:50	Solid	Central	X	X	X			2
GP-21 (6-8) (500-127508-21)		5/2/17	12:55	Solid	Central	X	X	X			2
GP-22 (2-4) (500-127508-22)		5/2/17	13:35	Solid	Central	X	X	X			2
<p>Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. 1</p>											
Possible Hazard Identification						Sample Disposal (A Fee may be assessed if samples are retained longer than 1 month)					
Unconfirmed						<input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months					
Deliverable Requested: I, II, III, IV, Other (specify)						Special Instructions/QC Requirements:					
Primary Deliverable Rank: 2											
Empty Kit Relinquished by:		Date:	Time:		Method of Shipment:						
Relinquished by: <i>Snakes</i>		Date/Time: 5/10/17	1600		Received by: <i>TA</i>						
Relinquished by: <i>Snakes</i>		Date/Time:	Company:		Received by: <i>TA</i>						
Relinquished by:		Date/Time:	Company:		Received by: <i>TA</i>						
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No.:		Cooler Temperature(s) and Other Remarks:		Date/Time: 5.4.17		Company: 8345		Company: 1445	
										27	

COOLER RECEIPT FORM



500-127508-03 Chain of Custody

Cooler Received/Opened On 5/4/2017 @ 0945

Time Samples Removed From Cooler 15:30 Time Samples Placed In Storage _____ (2 Hour Window)

1. Tracking # 3984 (last 4 digits, FedEx) Courier: FedEx

IR Gun ID 160656843 pH Strip Lot _____ Chlorine Strip Lot _____

2. Temperature of rep. sample or temp blank when opened: 27 Degrees Celsius

3. If Item #2 temperature is 0°C or less, was the representative sample or temp blank frozen? YES NO NA

4. Were custody seals on outside of cooler? YES...NO...NA

If yes, how many and where: 2 front / back

5. Were the seals intact, signed, and dated correctly? YES...NO...NA

6. Were custody papers inside cooler? YES...NO...NA

I certify that I opened the cooler and answered questions 1-6 (initial) HZG

7. Were custody seals on containers: YES NO and Intact YES...NO...NA

Were these signed and dated correctly? YES...NO...NA

8. Packing mat'l used? Bubblewrap Plastic bag Peanuts Vermiculite Foam Insert Paper Other None

9. Cooling process: Ice Ice-pack Ice (direct contact) Dry ice Other None

10. Did all containers arrive in good condition (unbroken)? YES...NO...NA

11. Were all container labels complete (#, date, signed, pres., etc)? YES...NO...NA

12. Did all container labels and tags agree with custody papers? YES...NO...NA

13a. Were VOA vials received? YES...NO...NA

b. Was there any observable headspace present in any VOA vial? YES...NO...NA

14. Was there a Trip Blank in this cooler? YES...NO...NA If multiple coolers, sequence # _____

I certify that I unloaded the cooler and answered questions 7-14 (initial) [Signature]

15a. On pres'd bottles, did pH test strips suggest preservation reached the correct pH level? YES...NO...NA

b. Did the bottle labels indicate that the correct preservatives were used YES...NO...NA

16. Was residual chlorine present? YES...NO...NA

I certify that I checked for chlorine and pH as per SOP and answered questions 15-16 (initial) [Signature]

17. Were custody papers properly filled out (ink, signed, etc)? YES...NO...NA

18. Did you sign the custody papers in the appropriate place? YES...NO...NA

19. Were correct containers used for the analysis requested? YES...NO...NA

20. Was sufficient amount of sample sent in each container? YES...NO...NA

I certify that I entered this project into LIMS and answered questions 17-20 (initial) [Signature]

I certify that I attached a label with the unique LIMS number to each container (initial) [Signature]

21. Were there Non-Conformance issues at login? YES...NO Was a NCM generated? YES...NO...# _____

TestAmerica Chicago

2417 Bond Street
University Park, IL 60484
Phone (708) 534-5200 Fax (708) 534-5211

Chain of Custody Record

Loc: 500
127508



Client Information (Sub Contract Lab)

Client Contact:
Shipping/Receiving

Sampler:
Phone:
E-Mail:
sandie.fredrick@testamericainc.com

Accreditations Required (See note):
State Program - Wisconsin

Car:
Sia
Wisconsin

COC No:
500-88709.3

Page:
Page 3 of 3

Company:
TestAmerica Laboratories, Inc

Address:
2960 Foster Creighton Drive,
City:
Nashville
State, Zip:
TN, 37204

Due Date Requested:
5/4/2017
TAT Requested (day/s):

Lab P/N:
Fredrick, Sandie J

Job #:
500-127508-1

Preservation Codes:
A - HCL
B - NaOH
C - Zn Acetate
D - Nitric Acid
E - H2SO4
F - MeOH
G - Amchlor
H - Ascorbic Acid
I - Ice
J - DI Water
K - EDTA
L - EDA
M - Hexane
N - None
O - AspNet
P - Na2O2S
Q - Na2SO3
R - Na2S2O3
S - H2SO4
T - TSP Dodecahydrate
U - Acetone
V - MCAA
W - pH 4-5
Z - other (specify)

Phone:
615-726-0177(Tel) 615-726-3404(Fax)

Project Name:
STH 11 Kentucky to Kearney - 275788

Project #:
50010540

SSOM#:

Analysis Requested

Field Filtered Sample (Yes or No)

Perform MS/MSD (Yes or No)

Moisture/ Percent Moisture/Solids

PO #:

WO #:

WI_GROWIGRO_P_FM PVOC+NAP

WI_GROWIGRO_P_FM (MOD) PVOC+NAP+GRO

Total Number of containers

Special Instructions/Note:

GP-22 (6-8) (500-127508-23)

GP-23 (2-4) (500-127508-24)

GP-23 (6-8) (500-127508-25)

Sample Identification - Client ID (Lab ID)

Sample Date

Sample Time

Sample Type (G=comp, G=grab)

Matrix (Wet/Dry, Suspended, On-surface, Air)

Field Filtered Sample (Yes or No)

Perform MS/MSD (Yes or No)

Moisture/ Percent Moisture/Solids

WI_GROWIGRO_P_FM PVOC+NAP

WI_GROWIGRO_P_FM (MOD) PVOC+NAP+GRO

Total Number of containers

Special Instructions/Note:

GP-22 (6-8) (500-127508-23)

GP-23 (2-4) (500-127508-24)

GP-23 (6-8) (500-127508-25)

Project Name:
STH 11 Kentucky to Kearney - 275788

Project #:
50010540

SSOM#:

Analysis Requested

Field Filtered Sample (Yes or No)

Perform MS/MSD (Yes or No)

Moisture/ Percent Moisture/Solids

WI_GROWIGRO_P_FM PVOC+NAP

WI_GROWIGRO_P_FM (MOD) PVOC+NAP+GRO

Total Number of containers

Special Instructions/Note:

GP-22 (6-8) (500-127508-23)

GP-23 (2-4) (500-127508-24)

GP-23 (6-8) (500-127508-25)

Project Name:
STH 11 Kentucky to Kearney - 275788

Project #:
50010540

SSOM#:

Analysis Requested

Field Filtered Sample (Yes or No)

Perform MS/MSD (Yes or No)

Moisture/ Percent Moisture/Solids

WI_GROWIGRO_P_FM PVOC+NAP

WI_GROWIGRO_P_FM (MOD) PVOC+NAP+GRO

Total Number of containers

Special Instructions/Note:

GP-22 (6-8) (500-127508-23)

GP-23 (2-4) (500-127508-24)

GP-23 (6-8) (500-127508-25)

Project Name:
STH 11 Kentucky to Kearney - 275788

Project #:
50010540

SSOM#:

Analysis Requested

Field Filtered Sample (Yes or No)

Perform MS/MSD (Yes or No)

Moisture/ Percent Moisture/Solids

WI_GROWIGRO_P_FM PVOC+NAP

WI_GROWIGRO_P_FM (MOD) PVOC+NAP+GRO

Total Number of containers

Special Instructions/Note:

GP-22 (6-8) (500-127508-23)

GP-23 (2-4) (500-127508-24)

GP-23 (6-8) (500-127508-25)

Project Name:
STH 11 Kentucky to Kearney - 275788

Project #:
50010540

SSOM#:

Analysis Requested

Field Filtered Sample (Yes or No)

Perform MS/MSD (Yes or No)

Moisture/ Percent Moisture/Solids

WI_GROWIGRO_P_FM PVOC+NAP

WI_GROWIGRO_P_FM (MOD) PVOC+NAP+GRO

Total Number of containers

Special Instructions/Note:

GP-22 (6-8) (500-127508-23)

GP-23 (2-4) (500-127508-24)

GP-23 (6-8) (500-127508-25)

Project Name:
STH 11 Kentucky to Kearney - 275788

Project #:
50010540

SSOM#:

Analysis Requested

Field Filtered Sample (Yes or No)

Perform MS/MSD (Yes or No)

Moisture/ Percent Moisture/Solids

WI_GROWIGRO_P_FM PVOC+NAP

WI_GROWIGRO_P_FM (MOD) PVOC+NAP+GRO

Total Number of containers

Special Instructions/Note:

GP-22 (6-8) (500-127508-23)

GP-23 (2-4) (500-127508-24)

GP-23 (6-8) (500-127508-25)

Project Name:
STH 11 Kentucky to Kearney - 275788

Project #:
50010540

SSOM#:

Analysis Requested

Field Filtered Sample (Yes or No)

Perform MS/MSD (Yes or No)

Moisture/ Percent Moisture/Solids

WI_GROWIGRO_P_FM PVOC+NAP

WI_GROWIGRO_P_FM (MOD) PVOC+NAP+GRO

Total Number of containers

Special Instructions/Note:

GP-22 (6-8) (500-127508-23)

GP-23 (2-4) (500-127508-24)

GP-23 (6-8) (500-127508-25)

Project Name:
STH 11 Kentucky to Kearney - 275788

Project #:
50010540

SSOM#:

Analysis Requested

Field Filtered Sample (Yes or No)

Perform MS/MSD (Yes or No)

Moisture/ Percent Moisture/Solids

WI_GROWIGRO_P_FM PVOC+NAP

WI_GROWIGRO_P_FM (MOD) PVOC+NAP+GRO

Total Number of containers

Special Instructions/Note:

GP-22 (6-8) (500-127508-23)

GP-23 (2-4) (500-127508-24)

GP-23 (6-8) (500-127508-25)

Project Name:
STH 11 Kentucky to Kearney - 275788

Project #:
50010540

SSOM#:

Analysis Requested

Field Filtered Sample (Yes or No)

Perform MS/MSD (Yes or No)

Moisture/ Percent Moisture/Solids

WI_GROWIGRO_P_FM PVOC+NAP

WI_GROWIGRO_P_FM (MOD) PVOC+NAP+GRO

Total Number of containers

Special Instructions/Note:

GP-22 (6-8) (500-127508-23)

GP-23 (2-4) (500-127508-24)

GP-23 (6-8) (500-127508-25)

Project Name:
STH 11 Kentucky to Kearney - 275788

Project #:
50010540

SSOM#:

Analysis Requested

Field Filtered Sample (Yes or No)

Perform MS/MSD (Yes or No)

Moisture/ Percent Moisture/Solids

WI_GROWIGRO_P_FM PVOC+NAP

WI_GROWIGRO_P_FM (MOD) PVOC+NAP+GRO

Total Number of containers

Special Instructions/Note:

GP-22 (6-8) (500-127508-23)

GP-23 (2-4) (500-127508-24)

GP-23 (6-8) (500-127508-25)

Project Name:
STH 11 Kentucky to Kearney - 275788

Project #:
50010540

SSOM#:

Analysis Requested

Field Filtered Sample (Yes or No)

Perform MS/MSD (Yes or No)

Moisture/ Percent Moisture/Solids

WI_GROWIGRO_P_FM PVOC+NAP

WI_GROWIGRO_P_FM (MOD) PVOC+NAP+GRO

Total Number of containers

Special Instructions/Note:

GP-22 (6-8) (500-127508-23)

GP-23 (2-4) (500-127508-24)

GP-23 (6-8) (500-127508-25)

Project Name:
STH 11 Kentucky to Kearney - 275788

Project #:
50010540

SSOM#:

Analysis Requested

Field Filtered Sample (Yes or No)

Perform MS/MSD (Yes or No)

Moisture/ Percent Moisture/Solids

WI_GROWIGRO_P_FM PVOC+NAP

WI_GROWIGRO_P_FM (MOD) PVOC+NAP+GRO

Total Number of containers

Special Instructions/Note:

GP-22 (6-8) (500-127508-23)

GP-23 (2-4) (500-127508-24)

GP-23 (6-8) (500-127508-25)

Project Name:
STH 11 Kentucky to Kearney - 275788

Project #:
50010540

SSOM#:

Analysis Requested

Field Filtered Sample (Yes or No)

Perform MS/MSD (Yes or No)

Moisture/ Percent Moisture/Solids

WI_GROWIGRO_P_FM PVOC+NAP

WI_GROWIGRO_P_FM (MOD) PVOC+NAP+GRO

Total Number of containers

Special Instructions/Note:

GP-22 (6-8) (500-127508-23)

GP-23 (2-4) (500-127508-24)

GP-23 (6-8) (500-127508-25)

Project Name:
STH 11 Kentucky to Kearney - 275788

Project #:
50010540

SSOM#:

Analysis Requested

Field Filtered Sample (Yes or No)

Perform MS/MSD (Yes or No)

Moisture/ Percent Moisture/Solids

WI_GROWIGRO_P_FM PVOC+NAP

WI_GROWIGRO_P_FM (MOD) PVOC+NAP+GRO

Total Number of containers

Special Instructions/Note:

GP-22 (6-8) (500-127508-23)

GP-23 (2-4) (500-127508-24)

GP-23 (6-8) (500-127508-25)

Project Name:
STH 11 Kentucky to Kearney - 275788

Project #:
50010540

SSOM#:

Analysis Requested

Field Filtered Sample (Yes or No)

Perform MS/MSD (Yes or No)

Moisture/ Percent Moisture/Solids

WI_GROWIGRO_P_FM PVOC+NAP

WI_GROWIGRO_P_FM (MOD) PVOC+NAP+GRO

Total Number of containers

Special Instructions/Note:

GP-22 (6-8) (500-127508-23)

GP-23 (2-4)

Login Sample Receipt Checklist

Client: TRC Environmental Corporation.

Job Number: 500-127508-1

Login Number: 127508

List Source: TestAmerica Chicago

List Number: 1

Creator: Kelsey, Shawn M

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	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	(4.2)(5.4)c
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 (excluding tests with immediate HTs)	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.	True	



Login Sample Receipt Checklist

Client: TRC Environmental Corporation.

Job Number: 500-127508-1

Login Number: 127508

List Number: 2

Creator: Shaw, Rashard M

List Source: TestAmerica Nashville

List Creation: 05/04/17 02:20 PM

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	N/A	
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	
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 (excluding tests with immediate HTs)	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.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Chicago
2417 Bond Street
University Park, IL 60484
Tel: (708)534-5200

TestAmerica Job ID: 500-130269-1

Client Project/Site: Multiple Sites along STH 11 - 275788

For:
TRC Environmental Corporation.
150 N. Patrick Blvd.
Suite 180
Brookfield, Wisconsin 53045

Attn: Mr. Bryan Bergmann



Authorized for release by:
7/11/2017 2:18:51 PM

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.

1

2

3

4

5

6

7

8

9

10

11

12

13

14

15



Table of Contents

Cover Page	1
Table of Contents	2
Case Narrative	3
Detection Summary	4
Method Summary	7
Sample Summary	8
Client Sample Results	9
Definitions	24
QC Association	25
Surrogate Summary	29
QC Sample Results	31
Chronicle	46
Certification Summary	56
Chain of Custody	57
Receipt Checklists	65

Case Narrative

Client: TRC Environmental Corporation.
Project/Site: Multiple Sites along STH 11 - 275788

TestAmerica Job ID: 500-130269-1

Job ID: 500-130269-1

Laboratory: TestAmerica Chicago

Narrative

Job Narrative 500-130269-1

Comments

Sample analysis for 22-23 cancelled at client's request.

Receipt

The samples were received on 6/28/2017 10:10 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 2 coolers at receipt time were 3.7° C and 5.9° C.

GC/MS VOA

Method(s) 8260B: The extraction LCS associated with preparation batch 391290 had several analyte recoveries above control limits. The instrument LCS associated with analytical batch 391652 had all analytes within control limits; therefore re-analysis was not performed. The data have been reported and qualified. GP-35 (4-6) (500-130269-1), GP-35 (8-10) (500-130269-2), GP-35 (12-14) (500-130269-3) and Trip Blank (500-130269-30)

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

GC VOA

Method(s) WI-GRO: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate/sample duplicate (MS/MSD/DUP) associated with preparation batch 490-441726 and analytical batch 490-442472/442527.

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

Metals

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

Organic Prep

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

VOA Prep

Method(s) WI GRO: Methanol added to achieve 1:1 ratio. GP-36 (2-4) (500-130269-4), GP-36 (6-8) (500-130269-5), GP-37 (2-4) (500-130269-6), GP-37 (6-8) (500-130269-7), GP-38 (2-4) (500-130269-8), GP-38 (6-8) (500-130269-9), GP-39 (2-4) (500-130269-10), GP-39 (6-8) (500-130269-11), GP-40 (2-4) (500-130269-12), GP-41 (2-4) (500-130269-13), GP-42 (2-4) (500-130269-14), GP-42 (6-8) (500-130269-15), GP-43 (2-4) (500-130269-16), GP-43 (6-8) (500-130269-17), GP-44 (2-4) (500-130269-18), GP-45 (2-4) (500-130269-20), GP-47 (2-4) (500-130269-24), GP-47 (6-8) (500-130269-25), GP-48 (2-4) (500-130269-26), GP-48 (6-8) (500-130269-27) and GP-49 (2-4) (500-130269-28)

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: Multiple Sites along STH 11 - 275788

TestAmerica Job ID: 500-130269-1

Client Sample ID: GP-35 (4-6)

Lab Sample ID: 500-130269-1

No Detections.

Client Sample ID: GP-35 (8-10)

Lab Sample ID: 500-130269-2

No Detections.

Client Sample ID: GP-35 (12-14)

Lab Sample ID: 500-130269-3

No Detections.

Client Sample ID: GP-36 (2-4)

Lab Sample ID: 500-130269-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,2,4-Trimethylbenzene	38		33	20	ug/Kg	1	☒	WDNR	Total/NA

Client Sample ID: GP-36 (6-8)

Lab Sample ID: 500-130269-5

No Detections.

Client Sample ID: GP-37 (2-4)

Lab Sample ID: 500-130269-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methyl tert-butyl ether	14	J	29	14	ug/Kg	1	☒	WDNR	Total/NA

Client Sample ID: GP-37 (6-8)

Lab Sample ID: 500-130269-7

No Detections.

Client Sample ID: GP-38 (2-4)

Lab Sample ID: 500-130269-8

No Detections.

Client Sample ID: GP-38 (6-8)

Lab Sample ID: 500-130269-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,2,4-Trimethylbenzene	220	J	320	190	ug/Kg	10	☒	WDNR	Total/NA

Client Sample ID: GP-39 (2-4)

Lab Sample ID: 500-130269-10

No Detections.

Client Sample ID: GP-39 (6-8)

Lab Sample ID: 500-130269-11

No Detections.

Client Sample ID: GP-40 (2-4)

Lab Sample ID: 500-130269-12

No Detections.

Client Sample ID: GP-41 (2-4)

Lab Sample ID: 500-130269-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,2,4-Trimethylbenzene	19	J	30	18	ug/Kg	1	☒	WDNR	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: TRC Environmental Corporation.
Project/Site: Multiple Sites along STH 11 - 275788

TestAmerica Job ID: 500-130269-1

Client Sample ID: GP-42 (2-4)

Lab Sample ID: 500-130269-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	14		0.57	0.26	mg/Kg	1	☒	6010B	Total/NA

Client Sample ID: GP-42 (6-8)

Lab Sample ID: 500-130269-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	9.3		0.52	0.24	mg/Kg	1	☒	6010B	Total/NA

Client Sample ID: GP-43 (2-4)

Lab Sample ID: 500-130269-16

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	77		0.55	0.25	mg/Kg	1	☒	6010B	Total/NA

Client Sample ID: GP-43 (6-8)

Lab Sample ID: 500-130269-17

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methyl tert-butyl ether	14	J	27	13	ug/Kg	1	☒	WDNR	Total/NA
Lead	6.0		0.45	0.21	mg/Kg	1	☒	6010B	Total/NA

Client Sample ID: GP-44 (2-4)

Lab Sample ID: 500-130269-18

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,2,4-Trimethylbenzene	18	J	29	18	ug/Kg	1	☒	WDNR	Total/NA
Lead	19		0.52	0.24	mg/Kg	1	☒	6010B	Total/NA

Client Sample ID: GP-44 (6-8)

Lab Sample ID: 500-130269-19

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	9.9		0.55	0.25	mg/Kg	1	☒	6010B	Total/NA

Client Sample ID: GP-45 (2-4)

Lab Sample ID: 500-130269-20

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	9.6		0.55	0.25	mg/Kg	1	☒	6010B	Total/NA

Client Sample ID: GP-45 (6-8)

Lab Sample ID: 500-130269-21

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	7.5		0.53	0.24	mg/Kg	1	☒	6010B	Total/NA

Client Sample ID: GP-47 (2-4)

Lab Sample ID: 500-130269-24

No Detections.

Client Sample ID: GP-47 (6-8)

Lab Sample ID: 500-130269-25

No Detections.

Client Sample ID: GP-48 (2-4)

Lab Sample ID: 500-130269-26

No Detections.

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: TRC Environmental Corporation.
Project/Site: Multiple Sites along STH 11 - 275788

TestAmerica Job ID: 500-130269-1

Client Sample ID: GP-48 (6-8)

Lab Sample ID: 500-130269-27

No Detections.

Client Sample ID: GP-49 (2-4)

Lab Sample ID: 500-130269-28

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,2,4-Trimethylbenzene	29		29	17	ug/Kg	1	☒	WDNR	Total/NA

Client Sample ID: GP-49 (6-8)

Lab Sample ID: 500-130269-29

No Detections.

Client Sample ID: Trip Blank

Lab Sample ID: 500-130269-30

No Detections.

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago



Method Summary

Client: TRC Environmental Corporation.
Project/Site: Multiple Sites along STH 11 - 275788

TestAmerica Job ID: 500-130269-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL CHI
WDNR	Wisconsin - Gasoline Range Organics (GC)	WI-GRO	TAL NSH
6010B	Metals (ICP)	SW846	TAL CHI
Moisture	Percent Moisture	EPA	TAL CHI
Moisture	Percent Moisture	EPA	TAL NSH

Protocol References:

EPA = US Environmental Protection Agency

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

WI-GRO = "Modified GRO: Method For Determining Gasoline Range Organics", Wisconsin DNR, Publ-SW-140, September, 1995.

Laboratory References:

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

TAL NSH = TestAmerica Nashville, 2960 Foster Creighton Drive, Nashville, TN 37204, TEL (615)726-0177

Sample Summary

Client: TRC Environmental Corporation.
Project/Site: Multiple Sites along STH 11 - 275788

TestAmerica Job ID: 500-130269-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-130269-1	GP-35 (4-6)	Solid	06/27/17 08:30	06/28/17 10:10
500-130269-2	GP-35 (8-10)	Solid	06/27/17 08:40	06/28/17 10:10
500-130269-3	GP-35 (12-14)	Solid	06/27/17 08:45	06/28/17 10:10
500-130269-4	GP-36 (2-4)	Solid	06/27/17 09:25	06/28/17 10:10
500-130269-5	GP-36 (6-8)	Solid	06/27/17 09:30	06/28/17 10:10
500-130269-6	GP-37 (2-4)	Solid	06/27/17 09:40	06/28/17 10:10
500-130269-7	GP-37 (6-8)	Solid	06/27/17 09:45	06/28/17 10:10
500-130269-8	GP-38 (2-4)	Solid	06/27/17 10:05	06/28/17 10:10
500-130269-9	GP-38 (6-8)	Solid	06/27/17 10:10	06/28/17 10:10
500-130269-10	GP-39 (2-4)	Solid	06/27/17 10:30	06/28/17 10:10
500-130269-11	GP-39 (6-8)	Solid	06/27/17 10:35	06/28/17 10:10
500-130269-12	GP-40 (2-4)	Solid	06/27/17 11:10	06/28/17 10:10
500-130269-13	GP-41 (2-4)	Solid	06/27/17 11:15	06/28/17 10:10
500-130269-14	GP-42 (2-4)	Solid	06/27/17 11:45	06/28/17 10:10
500-130269-15	GP-42 (6-8)	Solid	06/27/17 11:50	06/28/17 10:10
500-130269-16	GP-43 (2-4)	Solid	06/27/17 12:20	06/28/17 10:10
500-130269-17	GP-43 (6-8)	Solid	06/27/17 12:25	06/28/17 10:10
500-130269-18	GP-44 (2-4)	Solid	06/27/17 12:45	06/28/17 10:10
500-130269-19	GP-44 (6-8)	Solid	06/27/17 12:50	06/28/17 10:10
500-130269-20	GP-45 (2-4)	Solid	06/27/17 13:20	06/28/17 10:10
500-130269-21	GP-45 (6-8)	Solid	06/27/17 13:25	06/28/17 10:10
500-130269-24	GP-47 (2-4)	Solid	06/27/17 14:05	06/28/17 10:10
500-130269-25	GP-47 (6-8)	Solid	06/27/17 14:10	06/28/17 10:10
500-130269-26	GP-48 (2-4)	Solid	06/27/17 14:25	06/28/17 10:10
500-130269-27	GP-48 (6-8)	Solid	06/27/17 14:30	06/28/17 10:10
500-130269-28	GP-49 (2-4)	Solid	06/27/17 14:45	06/28/17 10:10
500-130269-29	GP-49 (6-8)	Solid	06/27/17 14:50	06/28/17 10:10
500-130269-30	Trip Blank	Solid	06/27/17 00:00	06/28/17 10:10

Client Sample Results

Client: TRC Environmental Corporation.
Project/Site: Multiple Sites along STH 11 - 275788

TestAmerica Job ID: 500-130269-1

Client Sample ID: GP-35 (4-6)

Lab Sample ID: 500-130269-1

Date Collected: 06/27/17 08:30

Matrix: Solid

Date Received: 06/28/17 10:10

Percent Solids: 87.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<30		65	30	ug/Kg	☼	06/27/17 08:30	07/10/17 15:27	50
1,1,1-Trichloroethane	<25		65	25	ug/Kg	☼	06/27/17 08:30	07/10/17 15:27	50
1,1,1,2,2-Tetrachloroethane	<26		65	26	ug/Kg	☼	06/27/17 08:30	07/10/17 15:27	50
1,1,2-Trichloroethane	<23		65	23	ug/Kg	☼	06/27/17 08:30	07/10/17 15:27	50
1,1-Dichloroethane	<27		65	27	ug/Kg	☼	06/27/17 08:30	07/10/17 15:27	50
1,1-Dichloroethene	<25		65	25	ug/Kg	☼	06/27/17 08:30	07/10/17 15:27	50
1,1-Dichloropropene	<19		65	19	ug/Kg	☼	06/27/17 08:30	07/10/17 15:27	50
1,2,3-Trichlorobenzene	<30		65	30	ug/Kg	☼	06/27/17 08:30	07/10/17 15:27	50
1,2,3-Trichloropropane	<27		65	27	ug/Kg	☼	06/27/17 08:30	07/10/17 15:27	50
1,2,4-Trichlorobenzene	<22		65	22	ug/Kg	☼	06/27/17 08:30	07/10/17 15:27	50
1,2,4-Trimethylbenzene	<23		65	23	ug/Kg	☼	06/27/17 08:30	07/10/17 15:27	50
1,2-Dibromo-3-Chloropropane	<130		330	130	ug/Kg	☼	06/27/17 08:30	07/10/17 15:27	50
1,2-Dibromoethane	<25		65	25	ug/Kg	☼	06/27/17 08:30	07/10/17 15:27	50
1,2-Dichlorobenzene	<22		65	22	ug/Kg	☼	06/27/17 08:30	07/10/17 15:27	50
1,2-Dichloroethane	<26		65	26	ug/Kg	☼	06/27/17 08:30	07/10/17 15:27	50
1,2-Dichloropropane	<28		65	28	ug/Kg	☼	06/27/17 08:30	07/10/17 15:27	50
1,3,5-Trimethylbenzene	<25		65	25	ug/Kg	☼	06/27/17 08:30	07/10/17 15:27	50
1,3-Dichlorobenzene	<26		65	26	ug/Kg	☼	06/27/17 08:30	07/10/17 15:27	50
1,3-Dichloropropane	<24		65	24	ug/Kg	☼	06/27/17 08:30	07/10/17 15:27	50
1,4-Dichlorobenzene	<24		65	24	ug/Kg	☼	06/27/17 08:30	07/10/17 15:27	50
2,2-Dichloropropane	<29		65	29	ug/Kg	☼	06/27/17 08:30	07/10/17 15:27	50
2-Chlorotoluene	<20		65	20	ug/Kg	☼	06/27/17 08:30	07/10/17 15:27	50
4-Chlorotoluene	<23		65	23	ug/Kg	☼	06/27/17 08:30	07/10/17 15:27	50
Benzene	<9.5		16	9.5	ug/Kg	☼	06/27/17 08:30	07/10/17 15:27	50
Bromobenzene	<23		65	23	ug/Kg	☼	06/27/17 08:30	07/10/17 15:27	50
Bromochloromethane	<28		65	28	ug/Kg	☼	06/27/17 08:30	07/10/17 15:27	50
Bromodichloromethane	<24		65	24	ug/Kg	☼	06/27/17 08:30	07/10/17 15:27	50
Bromoform	<32		65	32	ug/Kg	☼	06/27/17 08:30	07/10/17 15:27	50
Bromomethane	<52		130	52	ug/Kg	☼	06/27/17 08:30	07/10/17 15:27	50
Carbon tetrachloride	<25		65	25	ug/Kg	☼	06/27/17 08:30	07/10/17 15:27	50
Chlorobenzene	<25		65	25	ug/Kg	☼	06/27/17 08:30	07/10/17 15:27	50
Chloroethane	<33		65	33	ug/Kg	☼	06/27/17 08:30	07/10/17 15:27	50
Chloroform	<24		130	24	ug/Kg	☼	06/27/17 08:30	07/10/17 15:27	50
Chloromethane	<21		65	21	ug/Kg	☼	06/27/17 08:30	07/10/17 15:27	50
cis-1,2-Dichloroethene	<27		65	27	ug/Kg	☼	06/27/17 08:30	07/10/17 15:27	50
cis-1,3-Dichloropropene	<27		65	27	ug/Kg	☼	06/27/17 08:30	07/10/17 15:27	50
Dibromochloromethane	<32		65	32	ug/Kg	☼	06/27/17 08:30	07/10/17 15:27	50
Dibromomethane	<18		65	18	ug/Kg	☼	06/27/17 08:30	07/10/17 15:27	50
Dichlorodifluoromethane	<44		130	44	ug/Kg	☼	06/27/17 08:30	07/10/17 15:27	50
Ethylbenzene	<12 *		16	12	ug/Kg	☼	06/27/17 08:30	07/10/17 15:27	50
Hexachlorobutadiene	<29		65	29	ug/Kg	☼	06/27/17 08:30	07/10/17 15:27	50
Isopropyl ether	<18		65	18	ug/Kg	☼	06/27/17 08:30	07/10/17 15:27	50
Isopropylbenzene	<25		65	25	ug/Kg	☼	06/27/17 08:30	07/10/17 15:27	50
Methyl tert-butyl ether	<26		65	26	ug/Kg	☼	06/27/17 08:30	07/10/17 15:27	50
Methylene Chloride	<110		330	110	ug/Kg	☼	06/27/17 08:30	07/10/17 15:27	50
Naphthalene	<22		65	22	ug/Kg	☼	06/27/17 08:30	07/10/17 15:27	50
n-Butylbenzene	<25		65	25	ug/Kg	☼	06/27/17 08:30	07/10/17 15:27	50
N-Propylbenzene	<27		65	27	ug/Kg	☼	06/27/17 08:30	07/10/17 15:27	50
p-Isopropyltoluene	<24		65	24	ug/Kg	☼	06/27/17 08:30	07/10/17 15:27	50

TestAmerica Chicago

Client Sample Results

Client: TRC Environmental Corporation.
Project/Site: Multiple Sites along STH 11 - 275788

TestAmerica Job ID: 500-130269-1

Client Sample ID: GP-35 (4-6)

Date Collected: 06/27/17 08:30

Date Received: 06/28/17 10:10

Lab Sample ID: 500-130269-1

Matrix: Solid

Percent Solids: 87.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	<26	*	65	26	ug/Kg	☼	06/27/17 08:30	07/10/17 15:27	50
Styrene	<25		65	25	ug/Kg	☼	06/27/17 08:30	07/10/17 15:27	50
tert-Butylbenzene	<26		65	26	ug/Kg	☼	06/27/17 08:30	07/10/17 15:27	50
Tetrachloroethene	<24		65	24	ug/Kg	☼	06/27/17 08:30	07/10/17 15:27	50
Toluene	<9.6	*	16	9.6	ug/Kg	☼	06/27/17 08:30	07/10/17 15:27	50
trans-1,2-Dichloroethene	<23		65	23	ug/Kg	☼	06/27/17 08:30	07/10/17 15:27	50
trans-1,3-Dichloropropene	<24		65	24	ug/Kg	☼	06/27/17 08:30	07/10/17 15:27	50
Trichloroethene	<11		33	11	ug/Kg	☼	06/27/17 08:30	07/10/17 15:27	50
Trichlorofluoromethane	<28		65	28	ug/Kg	☼	06/27/17 08:30	07/10/17 15:27	50
Vinyl chloride	<17		33	17	ug/Kg	☼	06/27/17 08:30	07/10/17 15:27	50
Xylenes, Total	<14		33	14	ug/Kg	☼	06/27/17 08:30	07/10/17 15:27	50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	86		75 - 126	06/27/17 08:30	07/10/17 15:27	50
4-Bromofluorobenzene (Surr)	86		72 - 124	06/27/17 08:30	07/10/17 15:27	50
Dibromofluoromethane	92		75 - 120	06/27/17 08:30	07/10/17 15:27	50
Toluene-d8 (Surr)	93		75 - 120	06/27/17 08:30	07/10/17 15:27	50

Client Sample ID: GP-35 (8-10)

Date Collected: 06/27/17 08:40

Date Received: 06/28/17 10:10

Lab Sample ID: 500-130269-2

Matrix: Solid

Percent Solids: 87.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<29		64	29	ug/Kg	☼	06/27/17 08:40	07/10/17 15:53	50
1,1,1-Trichloroethane	<24		64	24	ug/Kg	☼	06/27/17 08:40	07/10/17 15:53	50
1,1,1,2,2-Tetrachloroethane	<25		64	25	ug/Kg	☼	06/27/17 08:40	07/10/17 15:53	50
1,1,2-Trichloroethane	<22		64	22	ug/Kg	☼	06/27/17 08:40	07/10/17 15:53	50
1,1-Dichloroethane	<26		64	26	ug/Kg	☼	06/27/17 08:40	07/10/17 15:53	50
1,1-Dichloroethene	<25		64	25	ug/Kg	☼	06/27/17 08:40	07/10/17 15:53	50
1,1-Dichloropropene	<19		64	19	ug/Kg	☼	06/27/17 08:40	07/10/17 15:53	50
1,2,3-Trichlorobenzene	<29		64	29	ug/Kg	☼	06/27/17 08:40	07/10/17 15:53	50
1,2,3-Trichloropropane	<26		64	26	ug/Kg	☼	06/27/17 08:40	07/10/17 15:53	50
1,2,4-Trichlorobenzene	<22		64	22	ug/Kg	☼	06/27/17 08:40	07/10/17 15:53	50
1,2,4-Trimethylbenzene	<23		64	23	ug/Kg	☼	06/27/17 08:40	07/10/17 15:53	50
1,2-Dibromo-3-Chloropropane	<130		320	130	ug/Kg	☼	06/27/17 08:40	07/10/17 15:53	50
1,2-Dibromoethane	<25		64	25	ug/Kg	☼	06/27/17 08:40	07/10/17 15:53	50
1,2-Dichlorobenzene	<21		64	21	ug/Kg	☼	06/27/17 08:40	07/10/17 15:53	50
1,2-Dichloroethane	<25		64	25	ug/Kg	☼	06/27/17 08:40	07/10/17 15:53	50
1,2-Dichloropropane	<27		64	27	ug/Kg	☼	06/27/17 08:40	07/10/17 15:53	50
1,3,5-Trimethylbenzene	<24		64	24	ug/Kg	☼	06/27/17 08:40	07/10/17 15:53	50
1,3-Dichlorobenzene	<25		64	25	ug/Kg	☼	06/27/17 08:40	07/10/17 15:53	50
1,3-Dichloropropane	<23		64	23	ug/Kg	☼	06/27/17 08:40	07/10/17 15:53	50
1,4-Dichlorobenzene	<23		64	23	ug/Kg	☼	06/27/17 08:40	07/10/17 15:53	50
2,2-Dichloropropane	<28		64	28	ug/Kg	☼	06/27/17 08:40	07/10/17 15:53	50
2-Chlorotoluene	<20		64	20	ug/Kg	☼	06/27/17 08:40	07/10/17 15:53	50
4-Chlorotoluene	<22		64	22	ug/Kg	☼	06/27/17 08:40	07/10/17 15:53	50
Benzene	<9.3		16	9.3	ug/Kg	☼	06/27/17 08:40	07/10/17 15:53	50
Bromobenzene	<23		64	23	ug/Kg	☼	06/27/17 08:40	07/10/17 15:53	50
Bromochloromethane	<27		64	27	ug/Kg	☼	06/27/17 08:40	07/10/17 15:53	50

TestAmerica Chicago

Client Sample Results

Client: TRC Environmental Corporation.
Project/Site: Multiple Sites along STH 11 - 275788

TestAmerica Job ID: 500-130269-1

Client Sample ID: GP-35 (8-10)

Lab Sample ID: 500-130269-2

Date Collected: 06/27/17 08:40

Matrix: Solid

Date Received: 06/28/17 10:10

Percent Solids: 87.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromodichloromethane	<24		64	24	ug/Kg	☼	06/27/17 08:40	07/10/17 15:53	50
Bromoform	<31		64	31	ug/Kg	☼	06/27/17 08:40	07/10/17 15:53	50
Bromomethane	<51		130	51	ug/Kg	☼	06/27/17 08:40	07/10/17 15:53	50
Carbon tetrachloride	<24		64	24	ug/Kg	☼	06/27/17 08:40	07/10/17 15:53	50
Chlorobenzene	<25		64	25	ug/Kg	☼	06/27/17 08:40	07/10/17 15:53	50
Chloroethane	<32		64	32	ug/Kg	☼	06/27/17 08:40	07/10/17 15:53	50
Chloroform	<23		130	23	ug/Kg	☼	06/27/17 08:40	07/10/17 15:53	50
Chloromethane	<20		64	20	ug/Kg	☼	06/27/17 08:40	07/10/17 15:53	50
cis-1,2-Dichloroethene	<26		64	26	ug/Kg	☼	06/27/17 08:40	07/10/17 15:53	50
cis-1,3-Dichloropropene	<26		64	26	ug/Kg	☼	06/27/17 08:40	07/10/17 15:53	50
Dibromochloromethane	<31		64	31	ug/Kg	☼	06/27/17 08:40	07/10/17 15:53	50
Dibromomethane	<17		64	17	ug/Kg	☼	06/27/17 08:40	07/10/17 15:53	50
Dichlorodifluoromethane	<43		130	43	ug/Kg	☼	06/27/17 08:40	07/10/17 15:53	50
Ethylbenzene	<12 *		16	12	ug/Kg	☼	06/27/17 08:40	07/10/17 15:53	50
Hexachlorobutadiene	<28		64	28	ug/Kg	☼	06/27/17 08:40	07/10/17 15:53	50
Isopropyl ether	<18		64	18	ug/Kg	☼	06/27/17 08:40	07/10/17 15:53	50
Isopropylbenzene	<24		64	24	ug/Kg	☼	06/27/17 08:40	07/10/17 15:53	50
Methyl tert-butyl ether	<25		64	25	ug/Kg	☼	06/27/17 08:40	07/10/17 15:53	50
Methylene Chloride	<100		320	100	ug/Kg	☼	06/27/17 08:40	07/10/17 15:53	50
Naphthalene	<21		64	21	ug/Kg	☼	06/27/17 08:40	07/10/17 15:53	50
n-Butylbenzene	<25		64	25	ug/Kg	☼	06/27/17 08:40	07/10/17 15:53	50
N-Propylbenzene	<26		64	26	ug/Kg	☼	06/27/17 08:40	07/10/17 15:53	50
p-Isopropyltoluene	<23		64	23	ug/Kg	☼	06/27/17 08:40	07/10/17 15:53	50
sec-Butylbenzene	<25 *		64	25	ug/Kg	☼	06/27/17 08:40	07/10/17 15:53	50
Styrene	<25		64	25	ug/Kg	☼	06/27/17 08:40	07/10/17 15:53	50
tert-Butylbenzene	<25		64	25	ug/Kg	☼	06/27/17 08:40	07/10/17 15:53	50
Tetrachloroethene	<23		64	23	ug/Kg	☼	06/27/17 08:40	07/10/17 15:53	50
Toluene	<9.3 *		16	9.3	ug/Kg	☼	06/27/17 08:40	07/10/17 15:53	50
trans-1,2-Dichloroethene	<22		64	22	ug/Kg	☼	06/27/17 08:40	07/10/17 15:53	50
trans-1,3-Dichloropropene	<23		64	23	ug/Kg	☼	06/27/17 08:40	07/10/17 15:53	50
Trichloroethene	<10		32	10	ug/Kg	☼	06/27/17 08:40	07/10/17 15:53	50
Trichlorofluoromethane	<27		64	27	ug/Kg	☼	06/27/17 08:40	07/10/17 15:53	50
Vinyl chloride	<17		32	17	ug/Kg	☼	06/27/17 08:40	07/10/17 15:53	50
Xylenes, Total	<14		32	14	ug/Kg	☼	06/27/17 08:40	07/10/17 15:53	50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	86		75 - 126	06/27/17 08:40	07/10/17 15:53	50
4-Bromofluorobenzene (Surr)	87		72 - 124	06/27/17 08:40	07/10/17 15:53	50
Dibromofluoromethane	92		75 - 120	06/27/17 08:40	07/10/17 15:53	50
Toluene-d8 (Surr)	92		75 - 120	06/27/17 08:40	07/10/17 15:53	50

Client Sample ID: GP-35 (12-14)

Lab Sample ID: 500-130269-3

Date Collected: 06/27/17 08:45

Matrix: Solid

Date Received: 06/28/17 10:10

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	<27		58	27	ug/Kg	☼	06/27/17 08:45	07/10/17 16:19	50
1,1,1-Trichloroethane	<22		58	22	ug/Kg	☼	06/27/17 08:45	07/10/17 16:19	50
1,1,2,2-Tetrachloroethane	<23		58	23	ug/Kg	☼	06/27/17 08:45	07/10/17 16:19	50

TestAmerica Chicago

Client Sample Results

Client: TRC Environmental Corporation.
 Project/Site: Multiple Sites along STH 11 - 275788

TestAmerica Job ID: 500-130269-1

Client Sample ID: GP-35 (12-14)

Lab Sample ID: 500-130269-3

Date Collected: 06/27/17 08:45

Matrix: Solid

Date Received: 06/28/17 10:10

Percent Solids: 88.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichloroethane	<21		58	21	ug/Kg	☼	06/27/17 08:45	07/10/17 16:19	50
1,1-Dichloroethane	<24		58	24	ug/Kg	☼	06/27/17 08:45	07/10/17 16:19	50
1,1-Dichloroethene	<23		58	23	ug/Kg	☼	06/27/17 08:45	07/10/17 16:19	50
1,1-Dichloropropene	<17		58	17	ug/Kg	☼	06/27/17 08:45	07/10/17 16:19	50
1,2,3-Trichlorobenzene	<27		58	27	ug/Kg	☼	06/27/17 08:45	07/10/17 16:19	50
1,2,3-Trichloropropane	<24		58	24	ug/Kg	☼	06/27/17 08:45	07/10/17 16:19	50
1,2,4-Trichlorobenzene	<20		58	20	ug/Kg	☼	06/27/17 08:45	07/10/17 16:19	50
1,2,4-Trimethylbenzene	<21		58	21	ug/Kg	☼	06/27/17 08:45	07/10/17 16:19	50
1,2-Dibromo-3-Chloropropane	<120		290	120	ug/Kg	☼	06/27/17 08:45	07/10/17 16:19	50
1,2-Dibromoethane	<23		58	23	ug/Kg	☼	06/27/17 08:45	07/10/17 16:19	50
1,2-Dichlorobenzene	<19		58	19	ug/Kg	☼	06/27/17 08:45	07/10/17 16:19	50
1,2-Dichloroethane	<23		58	23	ug/Kg	☼	06/27/17 08:45	07/10/17 16:19	50
1,2-Dichloropropane	<25		58	25	ug/Kg	☼	06/27/17 08:45	07/10/17 16:19	50
1,3,5-Trimethylbenzene	<22		58	22	ug/Kg	☼	06/27/17 08:45	07/10/17 16:19	50
1,3-Dichlorobenzene	<23		58	23	ug/Kg	☼	06/27/17 08:45	07/10/17 16:19	50
1,3-Dichloropropane	<21		58	21	ug/Kg	☼	06/27/17 08:45	07/10/17 16:19	50
1,4-Dichlorobenzene	<21		58	21	ug/Kg	☼	06/27/17 08:45	07/10/17 16:19	50
2,2-Dichloropropane	<26		58	26	ug/Kg	☼	06/27/17 08:45	07/10/17 16:19	50
2-Chlorotoluene	<18		58	18	ug/Kg	☼	06/27/17 08:45	07/10/17 16:19	50
4-Chlorotoluene	<20		58	20	ug/Kg	☼	06/27/17 08:45	07/10/17 16:19	50
Benzene	<8.5		15	8.5	ug/Kg	☼	06/27/17 08:45	07/10/17 16:19	50
Bromobenzene	<21		58	21	ug/Kg	☼	06/27/17 08:45	07/10/17 16:19	50
Bromochloromethane	<25		58	25	ug/Kg	☼	06/27/17 08:45	07/10/17 16:19	50
Bromodichloromethane	<22		58	22	ug/Kg	☼	06/27/17 08:45	07/10/17 16:19	50
Bromoform	<28		58	28	ug/Kg	☼	06/27/17 08:45	07/10/17 16:19	50
Bromomethane	<46		120	46	ug/Kg	☼	06/27/17 08:45	07/10/17 16:19	50
Carbon tetrachloride	<22		58	22	ug/Kg	☼	06/27/17 08:45	07/10/17 16:19	50
Chlorobenzene	<23		58	23	ug/Kg	☼	06/27/17 08:45	07/10/17 16:19	50
Chloroethane	<29		58	29	ug/Kg	☼	06/27/17 08:45	07/10/17 16:19	50
Chloroform	<22		120	22	ug/Kg	☼	06/27/17 08:45	07/10/17 16:19	50
Chloromethane	<19		58	19	ug/Kg	☼	06/27/17 08:45	07/10/17 16:19	50
cis-1,2-Dichloroethene	<24		58	24	ug/Kg	☼	06/27/17 08:45	07/10/17 16:19	50
cis-1,3-Dichloropropene	<24		58	24	ug/Kg	☼	06/27/17 08:45	07/10/17 16:19	50
Dibromochloromethane	<28		58	28	ug/Kg	☼	06/27/17 08:45	07/10/17 16:19	50
Dibromomethane	<16		58	16	ug/Kg	☼	06/27/17 08:45	07/10/17 16:19	50
Dichlorodifluoromethane	<39		120	39	ug/Kg	☼	06/27/17 08:45	07/10/17 16:19	50
Ethylbenzene	<11 *		15	11	ug/Kg	☼	06/27/17 08:45	07/10/17 16:19	50
Hexachlorobutadiene	<26		58	26	ug/Kg	☼	06/27/17 08:45	07/10/17 16:19	50
Isopropyl ether	<16		58	16	ug/Kg	☼	06/27/17 08:45	07/10/17 16:19	50
Isopropylbenzene	<22		58	22	ug/Kg	☼	06/27/17 08:45	07/10/17 16:19	50
Methyl tert-butyl ether	<23		58	23	ug/Kg	☼	06/27/17 08:45	07/10/17 16:19	50
Methylene Chloride	<95		290	95	ug/Kg	☼	06/27/17 08:45	07/10/17 16:19	50
Naphthalene	<19		58	19	ug/Kg	☼	06/27/17 08:45	07/10/17 16:19	50
n-Butylbenzene	<23		58	23	ug/Kg	☼	06/27/17 08:45	07/10/17 16:19	50
N-Propylbenzene	<24		58	24	ug/Kg	☼	06/27/17 08:45	07/10/17 16:19	50
p-Isopropyltoluene	<21		58	21	ug/Kg	☼	06/27/17 08:45	07/10/17 16:19	50
sec-Butylbenzene	<23 *		58	23	ug/Kg	☼	06/27/17 08:45	07/10/17 16:19	50
Styrene	<23		58	23	ug/Kg	☼	06/27/17 08:45	07/10/17 16:19	50
tert-Butylbenzene	<23		58	23	ug/Kg	☼	06/27/17 08:45	07/10/17 16:19	50

TestAmerica Chicago

Client Sample Results

Client: TRC Environmental Corporation.
Project/Site: Multiple Sites along STH 11 - 275788

TestAmerica Job ID: 500-130269-1

Client Sample ID: GP-35 (12-14)

Date Collected: 06/27/17 08:45

Date Received: 06/28/17 10:10

Lab Sample ID: 500-130269-3

Matrix: Solid

Percent Solids: 88.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	<22		58	22	ug/Kg	☼	06/27/17 08:45	07/10/17 16:19	50
Toluene	<8.6	*	15	8.6	ug/Kg	☼	06/27/17 08:45	07/10/17 16:19	50
trans-1,2-Dichloroethene	<20		58	20	ug/Kg	☼	06/27/17 08:45	07/10/17 16:19	50
trans-1,3-Dichloropropene	<21		58	21	ug/Kg	☼	06/27/17 08:45	07/10/17 16:19	50
Trichloroethene	<9.6		29	9.6	ug/Kg	☼	06/27/17 08:45	07/10/17 16:19	50
Trichlorofluoromethane	<25		58	25	ug/Kg	☼	06/27/17 08:45	07/10/17 16:19	50
Vinyl chloride	<15		29	15	ug/Kg	☼	06/27/17 08:45	07/10/17 16:19	50
Xylenes, Total	<13		29	13	ug/Kg	☼	06/27/17 08:45	07/10/17 16:19	50
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	85		75 - 126				06/27/17 08:45	07/10/17 16:19	50
4-Bromofluorobenzene (Surr)	87		72 - 124				06/27/17 08:45	07/10/17 16:19	50
Dibromofluoromethane	92		75 - 120				06/27/17 08:45	07/10/17 16:19	50
Toluene-d8 (Surr)	93		75 - 120				06/27/17 08:45	07/10/17 16:19	50

Client Sample ID: GP-36 (2-4)

Date Collected: 06/27/17 09:25

Date Received: 06/28/17 10:10

Lab Sample ID: 500-130269-4

Matrix: Solid

Percent Solids: 78.5

Method: WDNR - Wisconsin - Gasoline Range Organics (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<23		33	23	ug/Kg	☼	06/30/17 08:52	07/03/17 18:21	1
Ethylbenzene	<25		33	25	ug/Kg	☼	06/30/17 08:52	07/03/17 18:21	1
Methyl tert-butyl ether	<16		33	16	ug/Kg	☼	06/30/17 08:52	07/03/17 18:21	1
Naphthalene	<160		330	160	ug/Kg	☼	06/30/17 08:52	07/03/17 18:21	1
Toluene	<22		33	22	ug/Kg	☼	06/30/17 08:52	07/03/17 18:21	1
1,2,4-Trimethylbenzene	38		33	20	ug/Kg	☼	06/30/17 08:52	07/03/17 18:21	1
1,3,5-Trimethylbenzene	<20		33	20	ug/Kg	☼	06/30/17 08:52	07/03/17 18:21	1
Xylenes, Total	<39		98	39	ug/Kg	☼	06/30/17 08:52	07/03/17 18:21	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	93		80 - 120				06/30/17 08:52	07/03/17 18:21	1

Client Sample ID: GP-36 (6-8)

Date Collected: 06/27/17 09:30

Date Received: 06/28/17 10:10

Lab Sample ID: 500-130269-5

Matrix: Solid

Percent Solids: 82.2

Method: WDNR - Wisconsin - Gasoline Range Organics (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<23		31	23	ug/Kg	☼	06/30/17 08:52	07/03/17 18:48	1
Ethylbenzene	<24		31	24	ug/Kg	☼	06/30/17 08:52	07/03/17 18:48	1
Methyl tert-butyl ether	<15		31	15	ug/Kg	☼	06/30/17 08:52	07/03/17 18:48	1
Naphthalene	<150		310	150	ug/Kg	☼	06/30/17 08:52	07/03/17 18:48	1
Toluene	<21		31	21	ug/Kg	☼	06/30/17 08:52	07/03/17 18:48	1
1,2,4-Trimethylbenzene	<19		31	19	ug/Kg	☼	06/30/17 08:52	07/03/17 18:48	1
1,3,5-Trimethylbenzene	<19		31	19	ug/Kg	☼	06/30/17 08:52	07/03/17 18:48	1
Xylenes, Total	<38		94	38	ug/Kg	☼	06/30/17 08:52	07/03/17 18:48	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	95		80 - 120				06/30/17 08:52	07/03/17 18:48	1

TestAmerica Chicago

Client Sample Results

Client: TRC Environmental Corporation.
Project/Site: Multiple Sites along STH 11 - 275788

TestAmerica Job ID: 500-130269-1

Client Sample ID: GP-37 (2-4)

Date Collected: 06/27/17 09:40

Date Received: 06/28/17 10:10

Lab Sample ID: 500-130269-6

Matrix: Solid

Percent Solids: 87.6

Method: WDNR - Wisconsin - Gasoline Range Organics (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<21		29	21	ug/Kg	☼	06/30/17 08:52	07/03/17 19:15	1
Ethylbenzene	<22		29	22	ug/Kg	☼	06/30/17 08:52	07/03/17 19:15	1
Methyl tert-butyl ether	14	J	29	14	ug/Kg	☼	06/30/17 08:52	07/03/17 19:15	1
Naphthalene	<140		290	140	ug/Kg	☼	06/30/17 08:52	07/03/17 19:15	1
Toluene	<20		29	20	ug/Kg	☼	06/30/17 08:52	07/03/17 19:15	1
1,2,4-Trimethylbenzene	<17		29	17	ug/Kg	☼	06/30/17 08:52	07/03/17 19:15	1
1,3,5-Trimethylbenzene	<17		29	17	ug/Kg	☼	06/30/17 08:52	07/03/17 19:15	1
Xylenes, Total	<34		86	34	ug/Kg	☼	06/30/17 08:52	07/03/17 19:15	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>a,a,a-Trifluorotoluene</i>	97		80 - 120	06/30/17 08:52	07/03/17 19:15	1

Client Sample ID: GP-37 (6-8)

Date Collected: 06/27/17 09:45

Date Received: 06/28/17 10:10

Lab Sample ID: 500-130269-7

Matrix: Solid

Percent Solids: 80.6

Method: WDNR - Wisconsin - Gasoline Range Organics (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<23		32	23	ug/Kg	☼	06/30/17 08:52	07/03/17 19:42	1
Ethylbenzene	<24		32	24	ug/Kg	☼	06/30/17 08:52	07/03/17 19:42	1
Methyl tert-butyl ether	<15		32	15	ug/Kg	☼	06/30/17 08:52	07/03/17 19:42	1
Naphthalene	<150		320	150	ug/Kg	☼	06/30/17 08:52	07/03/17 19:42	1
Toluene	<22		32	22	ug/Kg	☼	06/30/17 08:52	07/03/17 19:42	1
1,2,4-Trimethylbenzene	<19		32	19	ug/Kg	☼	06/30/17 08:52	07/03/17 19:42	1
1,3,5-Trimethylbenzene	<19		32	19	ug/Kg	☼	06/30/17 08:52	07/03/17 19:42	1
Xylenes, Total	<38		96	38	ug/Kg	☼	06/30/17 08:52	07/03/17 19:42	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>a,a,a-Trifluorotoluene</i>	98		80 - 120	06/30/17 08:52	07/03/17 19:42	1

Client Sample ID: GP-38 (2-4)

Date Collected: 06/27/17 10:05

Date Received: 06/28/17 10:10

Lab Sample ID: 500-130269-8

Matrix: Solid

Percent Solids: 82.5

Method: WDNR - Wisconsin - Gasoline Range Organics (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<22		31	22	ug/Kg	☼	06/30/17 08:52	07/03/17 20:08	1
Ethylbenzene	<23		31	23	ug/Kg	☼	06/30/17 08:52	07/03/17 20:08	1
Methyl tert-butyl ether	<15		31	15	ug/Kg	☼	06/30/17 08:52	07/03/17 20:08	1
Naphthalene	<150		310	150	ug/Kg	☼	06/30/17 08:52	07/03/17 20:08	1
Toluene	<21		31	21	ug/Kg	☼	06/30/17 08:52	07/03/17 20:08	1
1,2,4-Trimethylbenzene	<18		31	18	ug/Kg	☼	06/30/17 08:52	07/03/17 20:08	1
1,3,5-Trimethylbenzene	<18		31	18	ug/Kg	☼	06/30/17 08:52	07/03/17 20:08	1
Xylenes, Total	<37		92	37	ug/Kg	☼	06/30/17 08:52	07/03/17 20:08	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>a,a,a-Trifluorotoluene</i>	100		80 - 120	06/30/17 08:52	07/03/17 20:08	1

TestAmerica Chicago

Client Sample Results

Client: TRC Environmental Corporation.
Project/Site: Multiple Sites along STH 11 - 275788

TestAmerica Job ID: 500-130269-1

Client Sample ID: GP-38 (6-8)

Date Collected: 06/27/17 10:10

Date Received: 06/28/17 10:10

Lab Sample ID: 500-130269-9

Matrix: Solid

Percent Solids: 81.0

Method: WDNR - Wisconsin - Gasoline Range Organics (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<230		320	230	ug/Kg	☼	06/30/17 08:52	07/03/17 20:35	10
Ethylbenzene	<240		320	240	ug/Kg	☼	06/30/17 08:52	07/03/17 20:35	10
Methyl tert-butyl ether	<150		320	150	ug/Kg	☼	06/30/17 08:52	07/03/17 20:35	10
Naphthalene	<1500		3200	1500	ug/Kg	☼	06/30/17 08:52	07/03/17 20:35	10
Toluene	<220		320	220	ug/Kg	☼	06/30/17 08:52	07/03/17 20:35	10
1,2,4-Trimethylbenzene	220	J	320	190	ug/Kg	☼	06/30/17 08:52	07/03/17 20:35	10
1,3,5-Trimethylbenzene	<190		320	190	ug/Kg	☼	06/30/17 08:52	07/03/17 20:35	10
Xylenes, Total	<380		950	380	ug/Kg	☼	06/30/17 08:52	07/03/17 20:35	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>a,a,a-Trifluorotoluene</i>	96		80 - 120	06/30/17 08:52	07/03/17 20:35	10

Client Sample ID: GP-39 (2-4)

Date Collected: 06/27/17 10:30

Date Received: 06/28/17 10:10

Lab Sample ID: 500-130269-10

Matrix: Solid

Percent Solids: 75.8

Method: WDNR - Wisconsin - Gasoline Range Organics (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<240		330	240	ug/Kg	☼	06/30/17 08:52	07/03/17 21:02	10
Ethylbenzene	<250		330	250	ug/Kg	☼	06/30/17 08:52	07/03/17 21:02	10
Methyl tert-butyl ether	<160		330	160	ug/Kg	☼	06/30/17 08:52	07/03/17 21:02	10
Naphthalene	<1600		3300	1600	ug/Kg	☼	06/30/17 08:52	07/03/17 21:02	10
Toluene	<220		330	220	ug/Kg	☼	06/30/17 08:52	07/03/17 21:02	10
1,2,4-Trimethylbenzene	<200		330	200	ug/Kg	☼	06/30/17 08:52	07/03/17 21:02	10
1,3,5-Trimethylbenzene	<200		330	200	ug/Kg	☼	06/30/17 08:52	07/03/17 21:02	10
Xylenes, Total	<390		990	390	ug/Kg	☼	06/30/17 08:52	07/03/17 21:02	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>a,a,a-Trifluorotoluene</i>	101		80 - 120	06/30/17 08:52	07/03/17 21:02	10

Client Sample ID: GP-39 (6-8)

Date Collected: 06/27/17 10:35

Date Received: 06/28/17 10:10

Lab Sample ID: 500-130269-11

Matrix: Solid

Percent Solids: 88.1

Method: WDNR - Wisconsin - Gasoline Range Organics (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<200		280	200	ug/Kg	☼	06/30/17 08:52	07/03/17 21:29	10
Ethylbenzene	<210		280	210	ug/Kg	☼	06/30/17 08:52	07/03/17 21:29	10
Methyl tert-butyl ether	<130		280	130	ug/Kg	☼	06/30/17 08:52	07/03/17 21:29	10
Naphthalene	<1300		2800	1300	ug/Kg	☼	06/30/17 08:52	07/03/17 21:29	10
Toluene	<190		280	190	ug/Kg	☼	06/30/17 08:52	07/03/17 21:29	10
1,2,4-Trimethylbenzene	<170		280	170	ug/Kg	☼	06/30/17 08:52	07/03/17 21:29	10
1,3,5-Trimethylbenzene	<170		280	170	ug/Kg	☼	06/30/17 08:52	07/03/17 21:29	10
Xylenes, Total	<340		840	340	ug/Kg	☼	06/30/17 08:52	07/03/17 21:29	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>a,a,a-Trifluorotoluene</i>	100		80 - 120	06/30/17 08:52	07/03/17 21:29	10

TestAmerica Chicago

Client Sample Results

Client: TRC Environmental Corporation.
Project/Site: Multiple Sites along STH 11 - 275788

TestAmerica Job ID: 500-130269-1

Client Sample ID: GP-40 (2-4)

Date Collected: 06/27/17 11:10

Date Received: 06/28/17 10:10

Lab Sample ID: 500-130269-12

Matrix: Solid

Percent Solids: 79.7

Method: WDNR - Wisconsin - Gasoline Range Organics (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<23		32	23	ug/Kg	☼	06/30/17 08:52	07/03/17 21:56	1
Ethylbenzene	<24		32	24	ug/Kg	☼	06/30/17 08:52	07/03/17 21:56	1
Methyl tert-butyl ether	<15		32	15	ug/Kg	☼	06/30/17 08:52	07/03/17 21:56	1
Naphthalene	<150		320	150	ug/Kg	☼	06/30/17 08:52	07/03/17 21:56	1
Toluene	<22		32	22	ug/Kg	☼	06/30/17 08:52	07/03/17 21:56	1
1,2,4-Trimethylbenzene	<19		32	19	ug/Kg	☼	06/30/17 08:52	07/03/17 21:56	1
1,3,5-Trimethylbenzene	<19		32	19	ug/Kg	☼	06/30/17 08:52	07/03/17 21:56	1
Xylenes, Total	<38		96	38	ug/Kg	☼	06/30/17 08:52	07/03/17 21:56	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	97		80 - 120	06/30/17 08:52	07/03/17 21:56	1

Client Sample ID: GP-41 (2-4)

Date Collected: 06/27/17 11:15

Date Received: 06/28/17 10:10

Lab Sample ID: 500-130269-13

Matrix: Solid

Percent Solids: 82.0

Method: WDNR - Wisconsin - Gasoline Range Organics (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<22		30	22	ug/Kg	☼	06/30/17 08:52	07/03/17 22:22	1
Ethylbenzene	<23		30	23	ug/Kg	☼	06/30/17 08:52	07/03/17 22:22	1
Methyl tert-butyl ether	<14		30	14	ug/Kg	☼	06/30/17 08:52	07/03/17 22:22	1
Naphthalene	<140		300	140	ug/Kg	☼	06/30/17 08:52	07/03/17 22:22	1
Toluene	<20		30	20	ug/Kg	☼	06/30/17 08:52	07/03/17 22:22	1
1,2,4-Trimethylbenzene	19	J	30	18	ug/Kg	☼	06/30/17 08:52	07/03/17 22:22	1
1,3,5-Trimethylbenzene	<18		30	18	ug/Kg	☼	06/30/17 08:52	07/03/17 22:22	1
Xylenes, Total	<36		90	36	ug/Kg	☼	06/30/17 08:52	07/03/17 22:22	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	97		80 - 120	06/30/17 08:52	07/03/17 22:22	1

Client Sample ID: GP-42 (2-4)

Date Collected: 06/27/17 11:45

Date Received: 06/28/17 10:10

Lab Sample ID: 500-130269-14

Matrix: Solid

Percent Solids: 86.9

Method: WDNR - Wisconsin - Gasoline Range Organics (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<21		29	21	ug/Kg	☼	06/30/17 08:52	07/04/17 00:09	1
Ethylbenzene	<22		29	22	ug/Kg	☼	06/30/17 08:52	07/04/17 00:09	1
Methyl tert-butyl ether	<14		29	14	ug/Kg	☼	06/30/17 08:52	07/04/17 00:09	1
Naphthalene	<140		290	140	ug/Kg	☼	06/30/17 08:52	07/04/17 00:09	1
Toluene	<20		29	20	ug/Kg	☼	06/30/17 08:52	07/04/17 00:09	1
1,2,4-Trimethylbenzene	<17		29	17	ug/Kg	☼	06/30/17 08:52	07/04/17 00:09	1
1,3,5-Trimethylbenzene	<17		29	17	ug/Kg	☼	06/30/17 08:52	07/04/17 00:09	1
Xylenes, Total	<35		87	35	ug/Kg	☼	06/30/17 08:52	07/04/17 00:09	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	94		80 - 120	06/30/17 08:52	07/04/17 00:09	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	14		0.57	0.26	mg/Kg	☼	07/05/17 15:05	07/06/17 13:13	1

TestAmerica Chicago

Client Sample Results

Client: TRC Environmental Corporation.
Project/Site: Multiple Sites along STH 11 - 275788

TestAmerica Job ID: 500-130269-1

Client Sample ID: GP-42 (6-8)

Date Collected: 06/27/17 11:50

Date Received: 06/28/17 10:10

Lab Sample ID: 500-130269-15

Matrix: Solid

Percent Solids: 85.6

Method: WDNR - Wisconsin - Gasoline Range Organics (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<210		300	210	ug/Kg	☼	06/30/17 08:52	07/04/17 00:36	10
Ethylbenzene	<230		300	230	ug/Kg	☼	06/30/17 08:52	07/04/17 00:36	10
Methyl tert-butyl ether	<140		300	140	ug/Kg	☼	06/30/17 08:52	07/04/17 00:36	10
Naphthalene	<1400		3000	1400	ug/Kg	☼	06/30/17 08:52	07/04/17 00:36	10
Toluene	<200		300	200	ug/Kg	☼	06/30/17 08:52	07/04/17 00:36	10
1,2,4-Trimethylbenzene	<180		300	180	ug/Kg	☼	06/30/17 08:52	07/04/17 00:36	10
1,3,5-Trimethylbenzene	<180		300	180	ug/Kg	☼	06/30/17 08:52	07/04/17 00:36	10
Xylenes, Total	<360		890	360	ug/Kg	☼	06/30/17 08:52	07/04/17 00:36	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>a,a,a-Trifluorotoluene</i>	95		80 - 120	06/30/17 08:52	07/04/17 00:36	10

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	9.3		0.52	0.24	mg/Kg	☼	07/05/17 15:05	07/06/17 13:17	1

Client Sample ID: GP-43 (2-4)

Date Collected: 06/27/17 12:20

Date Received: 06/28/17 10:10

Lab Sample ID: 500-130269-16

Matrix: Solid

Percent Solids: 84.2

Method: WDNR - Wisconsin - Gasoline Range Organics (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<210		290	210	ug/Kg	☼	06/30/17 08:52	07/04/17 01:03	10
Ethylbenzene	<220		290	220	ug/Kg	☼	06/30/17 08:52	07/04/17 01:03	10
Methyl tert-butyl ether	<140		290	140	ug/Kg	☼	06/30/17 08:52	07/04/17 01:03	10
Naphthalene	<1400		2900	1400	ug/Kg	☼	06/30/17 08:52	07/04/17 01:03	10
Toluene	<200		290	200	ug/Kg	☼	06/30/17 08:52	07/04/17 01:03	10
1,2,4-Trimethylbenzene	<180		290	180	ug/Kg	☼	06/30/17 08:52	07/04/17 01:03	10
1,3,5-Trimethylbenzene	<180		290	180	ug/Kg	☼	06/30/17 08:52	07/04/17 01:03	10
Xylenes, Total	<350		880	350	ug/Kg	☼	06/30/17 08:52	07/04/17 01:03	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>a,a,a-Trifluorotoluene</i>	97		80 - 120	06/30/17 08:52	07/04/17 01:03	10

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	77		0.55	0.25	mg/Kg	☼	07/05/17 15:05	07/06/17 13:32	1

Client Sample ID: GP-43 (6-8)

Date Collected: 06/27/17 12:25

Date Received: 06/28/17 10:10

Lab Sample ID: 500-130269-17

Matrix: Solid

Percent Solids: 91.9

Method: WDNR - Wisconsin - Gasoline Range Organics (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<19		27	19	ug/Kg	☼	06/30/17 08:52	07/04/17 01:30	1
Ethylbenzene	<20		27	20	ug/Kg	☼	06/30/17 08:52	07/04/17 01:30	1
Methyl tert-butyl ether	14	J	27	13	ug/Kg	☼	06/30/17 08:52	07/04/17 01:30	1
Naphthalene	<130		270	130	ug/Kg	☼	06/30/17 08:52	07/04/17 01:30	1
Toluene	<18		27	18	ug/Kg	☼	06/30/17 08:52	07/04/17 01:30	1
1,2,4-Trimethylbenzene	<16		27	16	ug/Kg	☼	06/30/17 08:52	07/04/17 01:30	1
1,3,5-Trimethylbenzene	<16		27	16	ug/Kg	☼	06/30/17 08:52	07/04/17 01:30	1

TestAmerica Chicago

Client Sample Results

Client: TRC Environmental Corporation.
Project/Site: Multiple Sites along STH 11 - 275788

TestAmerica Job ID: 500-130269-1

Client Sample ID: GP-43 (6-8)

Date Collected: 06/27/17 12:25

Date Received: 06/28/17 10:10

Lab Sample ID: 500-130269-17

Matrix: Solid

Percent Solids: 91.9

Method: WDNR - Wisconsin - Gasoline Range Organics (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Xylenes, Total	<32		80	32	ug/Kg	☼	06/30/17 08:52	07/04/17 01:30	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	98		80 - 120				06/30/17 08:52	07/04/17 01:30	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	6.0		0.45	0.21	mg/Kg	☼	07/05/17 15:05	07/06/17 13:35	1

Client Sample ID: GP-44 (2-4)

Date Collected: 06/27/17 12:45

Date Received: 06/28/17 10:10

Lab Sample ID: 500-130269-18

Matrix: Solid

Percent Solids: 86.0

Method: WDNR - Wisconsin - Gasoline Range Organics (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<21		29	21	ug/Kg	☼	06/30/17 08:52	07/04/17 01:57	1
Ethylbenzene	<22		29	22	ug/Kg	☼	06/30/17 08:52	07/04/17 01:57	1
Methyl tert-butyl ether	<14		29	14	ug/Kg	☼	06/30/17 08:52	07/04/17 01:57	1
Naphthalene	<140		290	140	ug/Kg	☼	06/30/17 08:52	07/04/17 01:57	1
Toluene	<20		29	20	ug/Kg	☼	06/30/17 08:52	07/04/17 01:57	1
1,2,4-Trimethylbenzene	18	J	29	18	ug/Kg	☼	06/30/17 08:52	07/04/17 01:57	1
1,3,5-Trimethylbenzene	<18		29	18	ug/Kg	☼	06/30/17 08:52	07/04/17 01:57	1
Xylenes, Total	<35		88	35	ug/Kg	☼	06/30/17 08:52	07/04/17 01:57	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	98		80 - 120				06/30/17 08:52	07/04/17 01:57	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	19		0.52	0.24	mg/Kg	☼	07/05/17 15:05	07/06/17 13:39	1

Client Sample ID: GP-44 (6-8)

Date Collected: 06/27/17 12:50

Date Received: 06/28/17 10:10

Lab Sample ID: 500-130269-19

Matrix: Solid

Percent Solids: 83.5

Method: WDNR - Wisconsin - Gasoline Range Organics (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<19		27	19	ug/Kg	☼	06/30/17 08:52	07/04/17 02:24	1
Ethylbenzene	<20		27	20	ug/Kg	☼	06/30/17 08:52	07/04/17 02:24	1
Methyl tert-butyl ether	<13		27	13	ug/Kg	☼	06/30/17 08:52	07/04/17 02:24	1
Naphthalene	<130		270	130	ug/Kg	☼	06/30/17 08:52	07/04/17 02:24	1
Toluene	<18		27	18	ug/Kg	☼	06/30/17 08:52	07/04/17 02:24	1
1,2,4-Trimethylbenzene	<16		27	16	ug/Kg	☼	06/30/17 08:52	07/04/17 02:24	1
1,3,5-Trimethylbenzene	<16		27	16	ug/Kg	☼	06/30/17 08:52	07/04/17 02:24	1
Xylenes, Total	<32		80	32	ug/Kg	☼	06/30/17 08:52	07/04/17 02:24	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	96		80 - 120				06/30/17 08:52	07/04/17 02:24	1

TestAmerica Chicago

Client Sample Results

Client: TRC Environmental Corporation.
Project/Site: Multiple Sites along STH 11 - 275788

TestAmerica Job ID: 500-130269-1

Client Sample ID: GP-44 (6-8)

Date Collected: 06/27/17 12:50

Date Received: 06/28/17 10:10

Lab Sample ID: 500-130269-19

Matrix: Solid

Percent Solids: 83.5

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	9.9		0.55	0.25	mg/Kg	☼	07/05/17 15:05	07/06/17 13:43	1

Client Sample ID: GP-45 (2-4)

Date Collected: 06/27/17 13:20

Date Received: 06/28/17 10:10

Lab Sample ID: 500-130269-20

Matrix: Solid

Percent Solids: 88.0

Method: WDNR - Wisconsin - Gasoline Range Organics (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<21		29	21	ug/Kg	☼	06/30/17 08:52	07/04/17 02:51	1
Ethylbenzene	<22		29	22	ug/Kg	☼	06/30/17 08:52	07/04/17 02:51	1
Methyl tert-butyl ether	<14		29	14	ug/Kg	☼	06/30/17 08:52	07/04/17 02:51	1
Naphthalene	<140		290	140	ug/Kg	☼	06/30/17 08:52	07/04/17 02:51	1
Toluene	<20		29	20	ug/Kg	☼	06/30/17 08:52	07/04/17 02:51	1
1,2,4-Trimethylbenzene	<18		29	18	ug/Kg	☼	06/30/17 08:52	07/04/17 02:51	1
1,3,5-Trimethylbenzene	<18		29	18	ug/Kg	☼	06/30/17 08:52	07/04/17 02:51	1
Xylenes, Total	<35		88	35	ug/Kg	☼	06/30/17 08:52	07/04/17 02:51	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	97		80 - 120	06/30/17 08:52	07/04/17 02:51	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	9.6		0.55	0.25	mg/Kg	☼	07/05/17 15:05	07/06/17 13:47	1

Client Sample ID: GP-45 (6-8)

Date Collected: 06/27/17 13:25

Date Received: 06/28/17 10:10

Lab Sample ID: 500-130269-21

Matrix: Solid

Percent Solids: 88.8

Method: WDNR - Wisconsin - Gasoline Range Organics (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<19		26	19	ug/Kg	☼	06/30/17 08:52	07/04/17 03:17	1
Ethylbenzene	<20		26	20	ug/Kg	☼	06/30/17 08:52	07/04/17 03:17	1
Methyl tert-butyl ether	<13		26	13	ug/Kg	☼	06/30/17 08:52	07/04/17 03:17	1
Naphthalene	<130		260	130	ug/Kg	☼	06/30/17 08:52	07/04/17 03:17	1
Toluene	<18		26	18	ug/Kg	☼	06/30/17 08:52	07/04/17 03:17	1
1,2,4-Trimethylbenzene	<16		26	16	ug/Kg	☼	06/30/17 08:52	07/04/17 03:17	1
1,3,5-Trimethylbenzene	<16		26	16	ug/Kg	☼	06/30/17 08:52	07/04/17 03:17	1
Xylenes, Total	<31		79	31	ug/Kg	☼	06/30/17 08:52	07/04/17 03:17	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	98		80 - 120	06/30/17 08:52	07/04/17 03:17	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	7.5		0.53	0.24	mg/Kg	☼	07/05/17 15:05	07/06/17 13:50	1

TestAmerica Chicago

Client Sample Results

Client: TRC Environmental Corporation.
Project/Site: Multiple Sites along STH 11 - 275788

TestAmerica Job ID: 500-130269-1

Client Sample ID: GP-47 (2-4)

Lab Sample ID: 500-130269-24

Date Collected: 06/27/17 14:05

Matrix: Solid

Date Received: 06/28/17 10:10

Percent Solids: 92.6

Method: WDNR - Wisconsin - Gasoline Range Organics (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<19		26	19	ug/Kg	☼	06/30/17 08:52	07/04/17 03:44	1
Ethylbenzene	<20		26	20	ug/Kg	☼	06/30/17 08:52	07/04/17 03:44	1
Methyl tert-butyl ether	<12		26	12	ug/Kg	☼	06/30/17 08:52	07/04/17 03:44	1
Naphthalene	<120		260	120	ug/Kg	☼	06/30/17 08:52	07/04/17 03:44	1
Toluene	<18		26	18	ug/Kg	☼	06/30/17 08:52	07/04/17 03:44	1
1,2,4-Trimethylbenzene	<16		26	16	ug/Kg	☼	06/30/17 08:52	07/04/17 03:44	1
1,3,5-Trimethylbenzene	<16		26	16	ug/Kg	☼	06/30/17 08:52	07/04/17 03:44	1
Xylenes, Total	<31		78	31	ug/Kg	☼	06/30/17 08:52	07/04/17 03:44	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	96		80 - 120	06/30/17 08:52	07/04/17 03:44	1

Client Sample ID: GP-47 (6-8)

Lab Sample ID: 500-130269-25

Date Collected: 06/27/17 14:10

Matrix: Solid

Date Received: 06/28/17 10:10

Percent Solids: 81.5

Method: WDNR - Wisconsin - Gasoline Range Organics (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<23		32	23	ug/Kg	☼	06/30/17 08:52	07/04/17 04:11	1
Ethylbenzene	<24		32	24	ug/Kg	☼	06/30/17 08:52	07/04/17 04:11	1
Methyl tert-butyl ether	<15		32	15	ug/Kg	☼	06/30/17 08:52	07/04/17 04:11	1
Naphthalene	<150		320	150	ug/Kg	☼	06/30/17 08:52	07/04/17 04:11	1
Toluene	<22		32	22	ug/Kg	☼	06/30/17 08:52	07/04/17 04:11	1
1,2,4-Trimethylbenzene	<19		32	19	ug/Kg	☼	06/30/17 08:52	07/04/17 04:11	1
1,3,5-Trimethylbenzene	<19		32	19	ug/Kg	☼	06/30/17 08:52	07/04/17 04:11	1
Xylenes, Total	<38		95	38	ug/Kg	☼	06/30/17 08:52	07/04/17 04:11	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	98		80 - 120	06/30/17 08:52	07/04/17 04:11	1

Client Sample ID: GP-48 (2-4)

Lab Sample ID: 500-130269-26

Date Collected: 06/27/17 14:25

Matrix: Solid

Date Received: 06/28/17 10:10

Percent Solids: 79.0

Method: WDNR - Wisconsin - Gasoline Range Organics (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<23		31	23	ug/Kg	☼	06/30/17 08:52	07/04/17 12:03	1
Ethylbenzene	<24		31	24	ug/Kg	☼	06/30/17 08:52	07/04/17 12:03	1
Methyl tert-butyl ether	<15		31	15	ug/Kg	☼	06/30/17 08:52	07/04/17 12:03	1
Naphthalene	<150		310	150	ug/Kg	☼	06/30/17 08:52	07/04/17 12:03	1
Toluene	<21		31	21	ug/Kg	☼	06/30/17 08:52	07/04/17 12:03	1
1,2,4-Trimethylbenzene	<19		31	19	ug/Kg	☼	06/30/17 08:52	07/04/17 12:03	1
1,3,5-Trimethylbenzene	<19		31	19	ug/Kg	☼	06/30/17 08:52	07/04/17 12:03	1
Xylenes, Total	<38		94	38	ug/Kg	☼	06/30/17 08:52	07/04/17 12:03	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	93		80 - 120	06/30/17 08:52	07/04/17 12:03	1

TestAmerica Chicago

Client Sample Results

Client: TRC Environmental Corporation.
Project/Site: Multiple Sites along STH 11 - 275788

TestAmerica Job ID: 500-130269-1

Client Sample ID: GP-48 (6-8)

Date Collected: 06/27/17 14:30

Date Received: 06/28/17 10:10

Lab Sample ID: 500-130269-27

Matrix: Solid

Percent Solids: 80.8

Method: WDNR - Wisconsin - Gasoline Range Organics (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<22		30	22	ug/Kg	☼	06/30/17 08:52	07/04/17 12:30	1
Ethylbenzene	<23		30	23	ug/Kg	☼	06/30/17 08:52	07/04/17 12:30	1
Methyl tert-butyl ether	<15		30	15	ug/Kg	☼	06/30/17 08:52	07/04/17 12:30	1
Naphthalene	<150		300	150	ug/Kg	☼	06/30/17 08:52	07/04/17 12:30	1
Toluene	<21		30	21	ug/Kg	☼	06/30/17 08:52	07/04/17 12:30	1
1,2,4-Trimethylbenzene	<18		30	18	ug/Kg	☼	06/30/17 08:52	07/04/17 12:30	1
1,3,5-Trimethylbenzene	<18		30	18	ug/Kg	☼	06/30/17 08:52	07/04/17 12:30	1
Xylenes, Total	<36		91	36	ug/Kg	☼	06/30/17 08:52	07/04/17 12:30	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	94		80 - 120	06/30/17 08:52	07/04/17 12:30	1

Client Sample ID: GP-49 (2-4)

Date Collected: 06/27/17 14:45

Date Received: 06/28/17 10:10

Lab Sample ID: 500-130269-28

Matrix: Solid

Percent Solids: 90.5

Method: WDNR - Wisconsin - Gasoline Range Organics (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<21		29	21	ug/Kg	☼	06/30/17 08:52	07/04/17 12:57	1
Ethylbenzene	<22		29	22	ug/Kg	☼	06/30/17 08:52	07/04/17 12:57	1
Methyl tert-butyl ether	<14		29	14	ug/Kg	☼	06/30/17 08:52	07/04/17 12:57	1
Naphthalene	<140		290	140	ug/Kg	☼	06/30/17 08:52	07/04/17 12:57	1
Toluene	<20		29	20	ug/Kg	☼	06/30/17 08:52	07/04/17 12:57	1
1,2,4-Trimethylbenzene	29		29	17	ug/Kg	☼	06/30/17 08:52	07/04/17 12:57	1
1,3,5-Trimethylbenzene	<17		29	17	ug/Kg	☼	06/30/17 08:52	07/04/17 12:57	1
Xylenes, Total	<34		86	34	ug/Kg	☼	06/30/17 08:52	07/04/17 12:57	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	96		80 - 120	06/30/17 08:52	07/04/17 12:57	1

Client Sample ID: GP-49 (6-8)

Date Collected: 06/27/17 14:50

Date Received: 06/28/17 10:10

Lab Sample ID: 500-130269-29

Matrix: Solid

Percent Solids: 93.9

Method: WDNR - Wisconsin - Gasoline Range Organics (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<17		24	17	ug/Kg	☼	06/30/17 08:52	07/04/17 13:24	1
Ethylbenzene	<18		24	18	ug/Kg	☼	06/30/17 08:52	07/04/17 13:24	1
Methyl tert-butyl ether	<11		24	11	ug/Kg	☼	06/30/17 08:52	07/04/17 13:24	1
Naphthalene	<110		240	110	ug/Kg	☼	06/30/17 08:52	07/04/17 13:24	1
Toluene	<16		24	16	ug/Kg	☼	06/30/17 08:52	07/04/17 13:24	1
1,2,4-Trimethylbenzene	<14		24	14	ug/Kg	☼	06/30/17 08:52	07/04/17 13:24	1
1,3,5-Trimethylbenzene	<14		24	14	ug/Kg	☼	06/30/17 08:52	07/04/17 13:24	1
Xylenes, Total	<29		71	29	ug/Kg	☼	06/30/17 08:52	07/04/17 13:24	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	100		80 - 120	06/30/17 08:52	07/04/17 13:24	1

TestAmerica Chicago

Client Sample Results

Client: TRC Environmental Corporation.
 Project/Site: Multiple Sites along STH 11 - 275788

TestAmerica Job ID: 500-130269-1

Client Sample ID: Trip Blank

Lab Sample ID: 500-130269-30

Date Collected: 06/27/17 00:00

Matrix: Solid

Date Received: 06/28/17 10:10

Percent Solids: 100.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<23		50	23	ug/Kg	☼	06/27/17 00:00	07/10/17 16:46	50
1,1,1-Trichloroethane	<19		50	19	ug/Kg	☼	06/27/17 00:00	07/10/17 16:46	50
1,1,2,2-Tetrachloroethane	<20		50	20	ug/Kg	☼	06/27/17 00:00	07/10/17 16:46	50
1,1,2-Trichloroethane	<18		50	18	ug/Kg	☼	06/27/17 00:00	07/10/17 16:46	50
1,1-Dichloroethane	<21		50	21	ug/Kg	☼	06/27/17 00:00	07/10/17 16:46	50
1,1-Dichloroethene	<20		50	20	ug/Kg	☼	06/27/17 00:00	07/10/17 16:46	50
1,1-Dichloropropene	<15		50	15	ug/Kg	☼	06/27/17 00:00	07/10/17 16:46	50
1,2,3-Trichlorobenzene	<23		50	23	ug/Kg	☼	06/27/17 00:00	07/10/17 16:46	50
1,2,3-Trichloropropane	<21		50	21	ug/Kg	☼	06/27/17 00:00	07/10/17 16:46	50
1,2,4-Trichlorobenzene	<17		50	17	ug/Kg	☼	06/27/17 00:00	07/10/17 16:46	50
1,2,4-Trimethylbenzene	<18		50	18	ug/Kg	☼	06/27/17 00:00	07/10/17 16:46	50
1,2-Dibromo-3-Chloropropane	<100		250	100	ug/Kg	☼	06/27/17 00:00	07/10/17 16:46	50
1,2-Dibromoethane	<19		50	19	ug/Kg	☼	06/27/17 00:00	07/10/17 16:46	50
1,2-Dichlorobenzene	<17		50	17	ug/Kg	☼	06/27/17 00:00	07/10/17 16:46	50
1,2-Dichloroethane	<20		50	20	ug/Kg	☼	06/27/17 00:00	07/10/17 16:46	50
1,2-Dichloropropane	<21		50	21	ug/Kg	☼	06/27/17 00:00	07/10/17 16:46	50
1,3,5-Trimethylbenzene	<19		50	19	ug/Kg	☼	06/27/17 00:00	07/10/17 16:46	50
1,3-Dichlorobenzene	<20		50	20	ug/Kg	☼	06/27/17 00:00	07/10/17 16:46	50
1,3-Dichloropropane	<18		50	18	ug/Kg	☼	06/27/17 00:00	07/10/17 16:46	50
1,4-Dichlorobenzene	<18		50	18	ug/Kg	☼	06/27/17 00:00	07/10/17 16:46	50
2,2-Dichloropropane	<22		50	22	ug/Kg	☼	06/27/17 00:00	07/10/17 16:46	50
2-Chlorotoluene	<16		50	16	ug/Kg	☼	06/27/17 00:00	07/10/17 16:46	50
4-Chlorotoluene	<18		50	18	ug/Kg	☼	06/27/17 00:00	07/10/17 16:46	50
Benzene	<7.3		13	7.3	ug/Kg	☼	06/27/17 00:00	07/10/17 16:46	50
Bromobenzene	<18		50	18	ug/Kg	☼	06/27/17 00:00	07/10/17 16:46	50
Bromochloromethane	<21		50	21	ug/Kg	☼	06/27/17 00:00	07/10/17 16:46	50
Bromodichloromethane	<19		50	19	ug/Kg	☼	06/27/17 00:00	07/10/17 16:46	50
Bromoform	<24		50	24	ug/Kg	☼	06/27/17 00:00	07/10/17 16:46	50
Bromomethane	<40		100	40	ug/Kg	☼	06/27/17 00:00	07/10/17 16:46	50
Carbon tetrachloride	<19		50	19	ug/Kg	☼	06/27/17 00:00	07/10/17 16:46	50
Chlorobenzene	<19		50	19	ug/Kg	☼	06/27/17 00:00	07/10/17 16:46	50
Chloroethane	<25		50	25	ug/Kg	☼	06/27/17 00:00	07/10/17 16:46	50
Chloroform	<19		100	19	ug/Kg	☼	06/27/17 00:00	07/10/17 16:46	50
Chloromethane	<16		50	16	ug/Kg	☼	06/27/17 00:00	07/10/17 16:46	50
cis-1,2-Dichloroethene	<20		50	20	ug/Kg	☼	06/27/17 00:00	07/10/17 16:46	50
cis-1,3-Dichloropropene	<21		50	21	ug/Kg	☼	06/27/17 00:00	07/10/17 16:46	50
Dibromochloromethane	<24		50	24	ug/Kg	☼	06/27/17 00:00	07/10/17 16:46	50
Dibromomethane	<14		50	14	ug/Kg	☼	06/27/17 00:00	07/10/17 16:46	50
Dichlorodifluoromethane	<34		100	34	ug/Kg	☼	06/27/17 00:00	07/10/17 16:46	50
Ethylbenzene	<9.2 *		13	9.2	ug/Kg	☼	06/27/17 00:00	07/10/17 16:46	50
Hexachlorobutadiene	<22		50	22	ug/Kg	☼	06/27/17 00:00	07/10/17 16:46	50
Isopropyl ether	<14		50	14	ug/Kg	☼	06/27/17 00:00	07/10/17 16:46	50
Isopropylbenzene	<19		50	19	ug/Kg	☼	06/27/17 00:00	07/10/17 16:46	50
Methyl tert-butyl ether	<20		50	20	ug/Kg	☼	06/27/17 00:00	07/10/17 16:46	50
Methylene Chloride	<82		250	82	ug/Kg	☼	06/27/17 00:00	07/10/17 16:46	50
Naphthalene	<17		50	17	ug/Kg	☼	06/27/17 00:00	07/10/17 16:46	50
n-Butylbenzene	<19		50	19	ug/Kg	☼	06/27/17 00:00	07/10/17 16:46	50
N-Propylbenzene	<21		50	21	ug/Kg	☼	06/27/17 00:00	07/10/17 16:46	50
p-Isopropyltoluene	<18		50	18	ug/Kg	☼	06/27/17 00:00	07/10/17 16:46	50

TestAmerica Chicago

Client Sample Results

Client: TRC Environmental Corporation.
 Project/Site: Multiple Sites along STH 11 - 275788

TestAmerica Job ID: 500-130269-1

Client Sample ID: Trip Blank

Lab Sample ID: 500-130269-30

Date Collected: 06/27/17 00:00

Matrix: Solid

Date Received: 06/28/17 10:10

Percent Solids: 100.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	<20	*	50	20	ug/Kg	☼	06/27/17 00:00	07/10/17 16:46	50
Styrene	<19		50	19	ug/Kg	☼	06/27/17 00:00	07/10/17 16:46	50
tert-Butylbenzene	<20		50	20	ug/Kg	☼	06/27/17 00:00	07/10/17 16:46	50
Tetrachloroethene	<19		50	19	ug/Kg	☼	06/27/17 00:00	07/10/17 16:46	50
Toluene	<7.4	*	13	7.4	ug/Kg	☼	06/27/17 00:00	07/10/17 16:46	50
trans-1,2-Dichloroethene	<18		50	18	ug/Kg	☼	06/27/17 00:00	07/10/17 16:46	50
trans-1,3-Dichloropropene	<18		50	18	ug/Kg	☼	06/27/17 00:00	07/10/17 16:46	50
Trichloroethene	<8.2		25	8.2	ug/Kg	☼	06/27/17 00:00	07/10/17 16:46	50
Trichlorofluoromethane	<21		50	21	ug/Kg	☼	06/27/17 00:00	07/10/17 16:46	50
Vinyl chloride	<13		25	13	ug/Kg	☼	06/27/17 00:00	07/10/17 16:46	50
Xylenes, Total	<11		25	11	ug/Kg	☼	06/27/17 00:00	07/10/17 16:46	50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	87		75 - 126	06/27/17 00:00	07/10/17 16:46	50
4-Bromofluorobenzene (Surr)	86		72 - 124	06/27/17 00:00	07/10/17 16:46	50
Dibromofluoromethane	93		75 - 120	06/27/17 00:00	07/10/17 16:46	50
Toluene-d8 (Surr)	91		75 - 120	06/27/17 00:00	07/10/17 16:46	50

Definitions/Glossary

Client: TRC Environmental Corporation.
Project/Site: Multiple Sites along STH 11 - 275788

TestAmerica Job ID: 500-130269-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*	LCS or LCSD is outside acceptance limits.

GC 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.

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	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
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 (Radiochemistry)
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: Multiple Sites along STH 11 - 275788

TestAmerica Job ID: 500-130269-1

GC/MS VOA

Prep Batch: 391290

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-130269-1	GP-35 (4-6)	Total/NA	Solid	5035	
500-130269-2	GP-35 (8-10)	Total/NA	Solid	5035	
500-130269-3	GP-35 (12-14)	Total/NA	Solid	5035	
500-130269-30	Trip Blank	Total/NA	Solid	5035	
LB3 500-391290/10-A	Method Blank	Total/NA	Solid	5035	
LCS 500-391290/11-A	Lab Control Sample	Total/NA	Solid	5035	
500-130269-3 MS	GP-35 (12-14)	Total/NA	Solid	5035	
500-130269-3 MSD	GP-35 (12-14)	Total/NA	Solid	5035	

Analysis Batch: 391652

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LB3 500-391290/10-A	Method Blank	Total/NA	Solid	8260B	391290
MB 500-391652/7	Method Blank	Total/NA	Solid	8260B	
LCS 500-391290/11-A	Lab Control Sample	Total/NA	Solid	8260B	391290
LCS 500-391652/5	Lab Control Sample	Total/NA	Solid	8260B	

Analysis Batch: 392365

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-130269-1	GP-35 (4-6)	Total/NA	Solid	8260B	391290
500-130269-2	GP-35 (8-10)	Total/NA	Solid	8260B	391290
500-130269-3	GP-35 (12-14)	Total/NA	Solid	8260B	391290
500-130269-30	Trip Blank	Total/NA	Solid	8260B	391290
MB 500-392365/6	Method Blank	Total/NA	Solid	8260B	
LCS 500-392365/4	Lab Control Sample	Total/NA	Solid	8260B	
500-130269-3 MS	GP-35 (12-14)	Total/NA	Solid	8260B	391290
500-130269-3 MSD	GP-35 (12-14)	Total/NA	Solid	8260B	391290

GC VOA

Prep Batch: 441726

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-130269-4	GP-36 (2-4)	Total/NA	Solid	WI GRO	
500-130269-5	GP-36 (6-8)	Total/NA	Solid	WI GRO	
500-130269-6	GP-37 (2-4)	Total/NA	Solid	WI GRO	
500-130269-7	GP-37 (6-8)	Total/NA	Solid	WI GRO	
500-130269-8	GP-38 (2-4)	Total/NA	Solid	WI GRO	
500-130269-9	GP-38 (6-8)	Total/NA	Solid	WI GRO	
500-130269-10	GP-39 (2-4)	Total/NA	Solid	WI GRO	
500-130269-11	GP-39 (6-8)	Total/NA	Solid	WI GRO	
500-130269-12	GP-40 (2-4)	Total/NA	Solid	WI GRO	
500-130269-13	GP-41 (2-4)	Total/NA	Solid	WI GRO	
500-130269-14	GP-42 (2-4)	Total/NA	Solid	WI GRO	
500-130269-15	GP-42 (6-8)	Total/NA	Solid	WI GRO	
500-130269-16	GP-43 (2-4)	Total/NA	Solid	WI GRO	
500-130269-17	GP-43 (6-8)	Total/NA	Solid	WI GRO	
500-130269-18	GP-44 (2-4)	Total/NA	Solid	WI GRO	
500-130269-19	GP-44 (6-8)	Total/NA	Solid	WI GRO	
500-130269-20	GP-45 (2-4)	Total/NA	Solid	WI GRO	
500-130269-21	GP-45 (6-8)	Total/NA	Solid	WI GRO	
500-130269-24	GP-47 (2-4)	Total/NA	Solid	WI GRO	

TestAmerica Chicago

QC Association Summary

Client: TRC Environmental Corporation.
 Project/Site: Multiple Sites along STH 11 - 275788

TestAmerica Job ID: 500-130269-1

GC VOA (Continued)

Prep Batch: 441726 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-130269-25	GP-47 (6-8)	Total/NA	Solid	WI GRO	
500-130269-26	GP-48 (2-4)	Total/NA	Solid	WI GRO	
500-130269-27	GP-48 (6-8)	Total/NA	Solid	WI GRO	
500-130269-28	GP-49 (2-4)	Total/NA	Solid	WI GRO	
500-130269-29	GP-49 (6-8)	Total/NA	Solid	WI GRO	
MB 490-441726/1-A	Method Blank	Total/NA	Solid	WI GRO	
MB 490-441726/52-A	Method Blank	Total/NA	Solid	WI GRO	
LCS 490-441726/2-A	Lab Control Sample	Total/NA	Solid	WI GRO	
LCS 490-441726/53-A	Lab Control Sample	Total/NA	Solid	WI GRO	
LCSD 490-441726/3-A	Lab Control Sample Dup	Total/NA	Solid	WI GRO	
LCSD 490-441726/54-A	Lab Control Sample Dup	Total/NA	Solid	WI GRO	

Analysis Batch: 442472

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-130269-4	GP-36 (2-4)	Total/NA	Solid	WDNR	441726
500-130269-5	GP-36 (6-8)	Total/NA	Solid	WDNR	441726
500-130269-6	GP-37 (2-4)	Total/NA	Solid	WDNR	441726
500-130269-7	GP-37 (6-8)	Total/NA	Solid	WDNR	441726
500-130269-8	GP-38 (2-4)	Total/NA	Solid	WDNR	441726
500-130269-9	GP-38 (6-8)	Total/NA	Solid	WDNR	441726
500-130269-10	GP-39 (2-4)	Total/NA	Solid	WDNR	441726
500-130269-11	GP-39 (6-8)	Total/NA	Solid	WDNR	441726
500-130269-12	GP-40 (2-4)	Total/NA	Solid	WDNR	441726
500-130269-13	GP-41 (2-4)	Total/NA	Solid	WDNR	441726
500-130269-14	GP-42 (2-4)	Total/NA	Solid	WDNR	441726
500-130269-15	GP-42 (6-8)	Total/NA	Solid	WDNR	441726
500-130269-16	GP-43 (2-4)	Total/NA	Solid	WDNR	441726
500-130269-17	GP-43 (6-8)	Total/NA	Solid	WDNR	441726
500-130269-18	GP-44 (2-4)	Total/NA	Solid	WDNR	441726
500-130269-19	GP-44 (6-8)	Total/NA	Solid	WDNR	441726
500-130269-20	GP-45 (2-4)	Total/NA	Solid	WDNR	441726
500-130269-21	GP-45 (6-8)	Total/NA	Solid	WDNR	441726
500-130269-24	GP-47 (2-4)	Total/NA	Solid	WDNR	441726
500-130269-25	GP-47 (6-8)	Total/NA	Solid	WDNR	441726
MB 490-441726/1-A	Method Blank	Total/NA	Solid	WDNR	441726
LCS 490-441726/2-A	Lab Control Sample	Total/NA	Solid	WDNR	441726
LCSD 490-441726/3-A	Lab Control Sample Dup	Total/NA	Solid	WDNR	441726

Analysis Batch: 442527

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-130269-26	GP-48 (2-4)	Total/NA	Solid	WDNR	441726
500-130269-27	GP-48 (6-8)	Total/NA	Solid	WDNR	441726
500-130269-28	GP-49 (2-4)	Total/NA	Solid	WDNR	441726
500-130269-29	GP-49 (6-8)	Total/NA	Solid	WDNR	441726
MB 490-441726/52-A	Method Blank	Total/NA	Solid	WDNR	441726
LCS 490-441726/53-A	Lab Control Sample	Total/NA	Solid	WDNR	441726
LCSD 490-441726/54-A	Lab Control Sample Dup	Total/NA	Solid	WDNR	441726

QC Association Summary

Client: TRC Environmental Corporation.
 Project/Site: Multiple Sites along STH 11 - 275788

TestAmerica Job ID: 500-130269-1

Metals

Prep Batch: 391928

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-130269-14	GP-42 (2-4)	Total/NA	Solid	3050B	
500-130269-15	GP-42 (6-8)	Total/NA	Solid	3050B	
500-130269-16	GP-43 (2-4)	Total/NA	Solid	3050B	
500-130269-17	GP-43 (6-8)	Total/NA	Solid	3050B	
500-130269-18	GP-44 (2-4)	Total/NA	Solid	3050B	
500-130269-19	GP-44 (6-8)	Total/NA	Solid	3050B	
500-130269-20	GP-45 (2-4)	Total/NA	Solid	3050B	
500-130269-21	GP-45 (6-8)	Total/NA	Solid	3050B	
MB 500-391928/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 500-391928/2-A	Lab Control Sample	Total/NA	Solid	3050B	

Analysis Batch: 392169

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-130269-14	GP-42 (2-4)	Total/NA	Solid	6010B	391928
500-130269-15	GP-42 (6-8)	Total/NA	Solid	6010B	391928
500-130269-16	GP-43 (2-4)	Total/NA	Solid	6010B	391928
500-130269-17	GP-43 (6-8)	Total/NA	Solid	6010B	391928
500-130269-18	GP-44 (2-4)	Total/NA	Solid	6010B	391928
500-130269-19	GP-44 (6-8)	Total/NA	Solid	6010B	391928
500-130269-20	GP-45 (2-4)	Total/NA	Solid	6010B	391928
500-130269-21	GP-45 (6-8)	Total/NA	Solid	6010B	391928
MB 500-391928/1-A	Method Blank	Total/NA	Solid	6010B	391928
LCS 500-391928/2-A	Lab Control Sample	Total/NA	Solid	6010B	391928

General Chemistry

Analysis Batch: 391194

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-130269-1	GP-35 (4-6)	Total/NA	Solid	Moisture	
500-130269-2	GP-35 (8-10)	Total/NA	Solid	Moisture	
500-130269-3	GP-35 (12-14)	Total/NA	Solid	Moisture	
500-130269-14	GP-42 (2-4)	Total/NA	Solid	Moisture	
500-130269-15	GP-42 (6-8)	Total/NA	Solid	Moisture	
500-130269-16	GP-43 (2-4)	Total/NA	Solid	Moisture	
500-130269-17	GP-43 (6-8)	Total/NA	Solid	Moisture	
500-130269-18	GP-44 (2-4)	Total/NA	Solid	Moisture	
500-130269-19	GP-44 (6-8)	Total/NA	Solid	Moisture	
500-130269-20	GP-45 (2-4)	Total/NA	Solid	Moisture	
500-130269-21	GP-45 (6-8)	Total/NA	Solid	Moisture	
500-130269-30	Trip Blank	Total/NA	Solid	Moisture	
500-130269-17 DU	GP-43 (6-8)	Total/NA	Solid	Moisture	

Analysis Batch: 441458

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-130269-4	GP-36 (2-4)	Total/NA	Solid	Moisture	
500-130269-5	GP-36 (6-8)	Total/NA	Solid	Moisture	
500-130269-6	GP-37 (2-4)	Total/NA	Solid	Moisture	
500-130269-7	GP-37 (6-8)	Total/NA	Solid	Moisture	
500-130269-8	GP-38 (2-4)	Total/NA	Solid	Moisture	
500-130269-9	GP-38 (6-8)	Total/NA	Solid	Moisture	

TestAmerica Chicago

QC Association Summary

Client: TRC Environmental Corporation.
Project/Site: Multiple Sites along STH 11 - 275788

TestAmerica Job ID: 500-130269-1

General Chemistry (Continued)

Analysis Batch: 441458 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-130269-10	GP-39 (2-4)	Total/NA	Solid	Moisture	
500-130269-11	GP-39 (6-8)	Total/NA	Solid	Moisture	
500-130269-12	GP-40 (2-4)	Total/NA	Solid	Moisture	
500-130269-13	GP-41 (2-4)	Total/NA	Solid	Moisture	
500-130269-24	GP-47 (2-4)	Total/NA	Solid	Moisture	
500-130269-25	GP-47 (6-8)	Total/NA	Solid	Moisture	
500-130269-26	GP-48 (2-4)	Total/NA	Solid	Moisture	
500-130269-27	GP-48 (6-8)	Total/NA	Solid	Moisture	
500-130269-28	GP-49 (2-4)	Total/NA	Solid	Moisture	
500-130269-29	GP-49 (6-8)	Total/NA	Solid	Moisture	

Surrogate Summary

Client: TRC Environmental Corporation.
 Project/Site: Multiple Sites along STH 11 - 275788

TestAmerica Job ID: 500-130269-1

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

Matrix: Solid

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		12DCE (75-126)	BFB (72-124)	DBFM (75-120)	TOL (75-120)
500-130269-1	GP-35 (4-6)	86	86	92	93
500-130269-2	GP-35 (8-10)	86	87	92	92
500-130269-3	GP-35 (12-14)	85	87	92	93
500-130269-3 MS	GP-35 (12-14)	85	84	93	92
500-130269-3 MSD	GP-35 (12-14)	88	84	94	94
500-130269-30	Trip Blank	87	86	93	91
LB3 500-391290/10-A	Method Blank	83	96	86	103
LCS 500-391290/11-A	Lab Control Sample	86	92	90	102
LCS 500-391652/5	Lab Control Sample	82	94	90	104
LCS 500-392365/4	Lab Control Sample	83	82	93	92
MB 500-391652/7	Method Blank	83	96	87	102
MB 500-392365/6	Method Blank	85	84	93	93

Surrogate Legend

12DCE = 1,2-Dichloroethane-d4 (Surr)
 BFB = 4-Bromofluorobenzene (Surr)
 DBFM = Dibromofluoromethane
 TOL = Toluene-d8 (Surr)

Method: WDNR - Wisconsin - Gasoline Range Organics (GC)

Matrix: Solid

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	TFT
		(80-120)
500-130269-4	GP-36 (2-4)	93
500-130269-5	GP-36 (6-8)	95
500-130269-6	GP-37 (2-4)	97
500-130269-7	GP-37 (6-8)	98
500-130269-8	GP-38 (2-4)	100
500-130269-9	GP-38 (6-8)	96
500-130269-10	GP-39 (2-4)	101
500-130269-11	GP-39 (6-8)	100
500-130269-12	GP-40 (2-4)	97
500-130269-13	GP-41 (2-4)	97
500-130269-14	GP-42 (2-4)	94
500-130269-15	GP-42 (6-8)	95
500-130269-16	GP-43 (2-4)	97
500-130269-17	GP-43 (6-8)	98
500-130269-18	GP-44 (2-4)	98
500-130269-19	GP-44 (6-8)	96
500-130269-20	GP-45 (2-4)	97
500-130269-21	GP-45 (6-8)	98
500-130269-24	GP-47 (2-4)	96
500-130269-25	GP-47 (6-8)	98
500-130269-26	GP-48 (2-4)	93
500-130269-27	GP-48 (6-8)	94
500-130269-28	GP-49 (2-4)	96
500-130269-29	GP-49 (6-8)	100

TestAmerica Chicago

Surrogate Summary

Client: TRC Environmental Corporation.
Project/Site: Multiple Sites along STH 11 - 275788

TestAmerica Job ID: 500-130269-1

Method: WDNR - Wisconsin - Gasoline Range Organics (GC) (Continued)

Matrix: Solid

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	TFT (80-120)
LCS 490-441726/2-A	Lab Control Sample	100
LCS 490-441726/53-A	Lab Control Sample	96
LCSD 490-441726/3-A	Lab Control Sample Dup	104
LCSD 490-441726/54-A	Lab Control Sample Dup	105
MB 490-441726/1-A	Method Blank	92
MB 490-441726/52-A	Method Blank	89

Surrogate Legend

TFT = a,a,a-Trifluorotoluene

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15

QC Sample Results

Client: TRC Environmental Corporation.
 Project/Site: Multiple Sites along STH 11 - 275788

TestAmerica Job ID: 500-130269-1

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

Lab Sample ID: LB3 500-391290/10-A

Matrix: Solid

Analysis Batch: 391652

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 391290

Analyte	LB3 Result	LB3 Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<23		50	23	ug/Kg		06/29/17 09:30	07/03/17 09:58	50
1,1,1-Trichloroethane	<19		50	19	ug/Kg		06/29/17 09:30	07/03/17 09:58	50
1,1,2,2-Tetrachloroethane	<20		50	20	ug/Kg		06/29/17 09:30	07/03/17 09:58	50
1,1,2-Trichloroethane	<18		50	18	ug/Kg		06/29/17 09:30	07/03/17 09:58	50
1,1-Dichloroethane	<21		50	21	ug/Kg		06/29/17 09:30	07/03/17 09:58	50
1,1-Dichloroethene	<20		50	20	ug/Kg		06/29/17 09:30	07/03/17 09:58	50
1,1-Dichloropropene	<15		50	15	ug/Kg		06/29/17 09:30	07/03/17 09:58	50
1,2,3-Trichlorobenzene	<23		50	23	ug/Kg		06/29/17 09:30	07/03/17 09:58	50
1,2,3-Trichloropropane	<21		50	21	ug/Kg		06/29/17 09:30	07/03/17 09:58	50
1,2,4-Trichlorobenzene	<17		50	17	ug/Kg		06/29/17 09:30	07/03/17 09:58	50
1,2,4-Trimethylbenzene	<18		50	18	ug/Kg		06/29/17 09:30	07/03/17 09:58	50
1,2-Dibromo-3-Chloropropane	<100		250	100	ug/Kg		06/29/17 09:30	07/03/17 09:58	50
1,2-Dibromoethane	<19		50	19	ug/Kg		06/29/17 09:30	07/03/17 09:58	50
1,2-Dichlorobenzene	<17		50	17	ug/Kg		06/29/17 09:30	07/03/17 09:58	50
1,2-Dichloroethane	<20		50	20	ug/Kg		06/29/17 09:30	07/03/17 09:58	50
1,2-Dichloropropane	<21		50	21	ug/Kg		06/29/17 09:30	07/03/17 09:58	50
1,3,5-Trimethylbenzene	<19		50	19	ug/Kg		06/29/17 09:30	07/03/17 09:58	50
1,3-Dichlorobenzene	<20		50	20	ug/Kg		06/29/17 09:30	07/03/17 09:58	50
1,3-Dichloropropane	<18		50	18	ug/Kg		06/29/17 09:30	07/03/17 09:58	50
1,4-Dichlorobenzene	<18		50	18	ug/Kg		06/29/17 09:30	07/03/17 09:58	50
2,2-Dichloropropane	<22		50	22	ug/Kg		06/29/17 09:30	07/03/17 09:58	50
2-Chlorotoluene	<16		50	16	ug/Kg		06/29/17 09:30	07/03/17 09:58	50
4-Chlorotoluene	<18		50	18	ug/Kg		06/29/17 09:30	07/03/17 09:58	50
Benzene	<7.3		13	7.3	ug/Kg		06/29/17 09:30	07/03/17 09:58	50
Bromobenzene	<18		50	18	ug/Kg		06/29/17 09:30	07/03/17 09:58	50
Bromochloromethane	<21		50	21	ug/Kg		06/29/17 09:30	07/03/17 09:58	50
Bromodichloromethane	<19		50	19	ug/Kg		06/29/17 09:30	07/03/17 09:58	50
Bromoform	<24		50	24	ug/Kg		06/29/17 09:30	07/03/17 09:58	50
Bromomethane	<40		100	40	ug/Kg		06/29/17 09:30	07/03/17 09:58	50
Carbon tetrachloride	<19		50	19	ug/Kg		06/29/17 09:30	07/03/17 09:58	50
Chlorobenzene	<19		50	19	ug/Kg		06/29/17 09:30	07/03/17 09:58	50
Chloroethane	<25		50	25	ug/Kg		06/29/17 09:30	07/03/17 09:58	50
Chloroform	<19		100	19	ug/Kg		06/29/17 09:30	07/03/17 09:58	50
Chloromethane	<16		50	16	ug/Kg		06/29/17 09:30	07/03/17 09:58	50
cis-1,2-Dichloroethene	<20		50	20	ug/Kg		06/29/17 09:30	07/03/17 09:58	50
cis-1,3-Dichloropropene	<21		50	21	ug/Kg		06/29/17 09:30	07/03/17 09:58	50
Dibromochloromethane	<24		50	24	ug/Kg		06/29/17 09:30	07/03/17 09:58	50
Dibromomethane	<14		50	14	ug/Kg		06/29/17 09:30	07/03/17 09:58	50
Dichlorodifluoromethane	<34		100	34	ug/Kg		06/29/17 09:30	07/03/17 09:58	50
Ethylbenzene	<9.2		13	9.2	ug/Kg		06/29/17 09:30	07/03/17 09:58	50
Hexachlorobutadiene	<22		50	22	ug/Kg		06/29/17 09:30	07/03/17 09:58	50
Isopropyl ether	<14		50	14	ug/Kg		06/29/17 09:30	07/03/17 09:58	50
Isopropylbenzene	<19		50	19	ug/Kg		06/29/17 09:30	07/03/17 09:58	50
Methyl tert-butyl ether	<20		50	20	ug/Kg		06/29/17 09:30	07/03/17 09:58	50
Methylene Chloride	<82		250	82	ug/Kg		06/29/17 09:30	07/03/17 09:58	50
Naphthalene	<17		50	17	ug/Kg		06/29/17 09:30	07/03/17 09:58	50
n-Butylbenzene	<19		50	19	ug/Kg		06/29/17 09:30	07/03/17 09:58	50
N-Propylbenzene	<21		50	21	ug/Kg		06/29/17 09:30	07/03/17 09:58	50

TestAmerica Chicago

QC Sample Results

Client: TRC Environmental Corporation.
 Project/Site: Multiple Sites along STH 11 - 275788

TestAmerica Job ID: 500-130269-1

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

Lab Sample ID: LB3 500-391290/10-A
Matrix: Solid
Analysis Batch: 391652

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 391290

Analyte	LB3 Result	LB3 Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
p-Isopropyltoluene	<18		50	18	ug/Kg		06/29/17 09:30	07/03/17 09:58	50
sec-Butylbenzene	<20		50	20	ug/Kg		06/29/17 09:30	07/03/17 09:58	50
Styrene	<19		50	19	ug/Kg		06/29/17 09:30	07/03/17 09:58	50
tert-Butylbenzene	<20		50	20	ug/Kg		06/29/17 09:30	07/03/17 09:58	50
Tetrachloroethene	<19		50	19	ug/Kg		06/29/17 09:30	07/03/17 09:58	50
Toluene	<7.4		13	7.4	ug/Kg		06/29/17 09:30	07/03/17 09:58	50
trans-1,2-Dichloroethene	<18		50	18	ug/Kg		06/29/17 09:30	07/03/17 09:58	50
trans-1,3-Dichloropropene	<18		50	18	ug/Kg		06/29/17 09:30	07/03/17 09:58	50
Trichloroethene	<8.2		25	8.2	ug/Kg		06/29/17 09:30	07/03/17 09:58	50
Trichlorofluoromethane	<21		50	21	ug/Kg		06/29/17 09:30	07/03/17 09:58	50
Vinyl chloride	<13		25	13	ug/Kg		06/29/17 09:30	07/03/17 09:58	50
Xylenes, Total	<11		25	11	ug/Kg		06/29/17 09:30	07/03/17 09:58	50

Surrogate	LB3 %Recovery	LB3 Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	83		75 - 126	06/29/17 09:30	07/03/17 09:58	50
4-Bromofluorobenzene (Surr)	96		72 - 124	06/29/17 09:30	07/03/17 09:58	50
Dibromofluoromethane	86		75 - 120	06/29/17 09:30	07/03/17 09:58	50
Toluene-d8 (Surr)	103		75 - 120	06/29/17 09:30	07/03/17 09:58	50

Lab Sample ID: LCS 500-391290/11-A
Matrix: Solid
Analysis Batch: 391652

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 391290

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
1,1,1,2-Tetrachloroethane	2500	2930		ug/Kg		117	70 - 125
1,1,1-Trichloroethane	2500	2850		ug/Kg		114	70 - 125
1,1,1,2-Tetrachloroethane	2500	2890		ug/Kg		116	67 - 127
1,1,2-Trichloroethane	2500	2920		ug/Kg		117	70 - 122
1,1-Dichloroethane	2500	2810		ug/Kg		112	70 - 125
1,1-Dichloroethene	2500	2890		ug/Kg		116	67 - 122
1,1-Dichloropropene	2500	2900		ug/Kg		116	70 - 121
1,2,3-Trichlorobenzene	2500	2920		ug/Kg		117	55 - 140
1,2,3-Trichloropropane	2500	2760		ug/Kg		110	50 - 133
1,2,4-Trichlorobenzene	2500	2960		ug/Kg		118	66 - 127
1,2,4-Trimethylbenzene	2500	3040		ug/Kg		121	70 - 123
1,2-Dibromo-3-Chloropropane	2500	2450		ug/Kg		98	56 - 123
1,2-Dibromoethane	2500	2940		ug/Kg		117	70 - 125
1,2-Dichlorobenzene	2500	3010		ug/Kg		120	70 - 125
1,2-Dichloroethane	2500	2710		ug/Kg		108	68 - 127
1,2-Dichloropropane	2500	2950		ug/Kg		118	67 - 130
1,3,5-Trimethylbenzene	2500	3060		ug/Kg		122	70 - 123
1,3-Dichlorobenzene	2500	2980		ug/Kg		119	70 - 125
1,3-Dichloropropane	2500	2950		ug/Kg		118	62 - 136
1,4-Dichlorobenzene	2500	2970		ug/Kg		119	70 - 120
2,2-Dichloropropane	2500	2600		ug/Kg		104	58 - 129
2-Chlorotoluene	2500	2980		ug/Kg		119	70 - 125
4-Chlorotoluene	2500	2970		ug/Kg		119	68 - 124
Benzene	2500	2980		ug/Kg		119	70 - 120

TestAmerica Chicago

QC Sample Results

Client: TRC Environmental Corporation.
 Project/Site: Multiple Sites along STH 11 - 275788

TestAmerica Job ID: 500-130269-1

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

Lab Sample ID: LCS 500-391290/11-A
Matrix: Solid
Analysis Batch: 391652

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 391290

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Bromobenzene	2500	3010		ug/Kg		120	70 - 122
Bromochloromethane	2500	2870		ug/Kg		115	65 - 122
Bromodichloromethane	2500	2730		ug/Kg		109	69 - 120
Bromoform	2500	2760		ug/Kg		111	56 - 132
Bromomethane	2500	2390		ug/Kg		96	40 - 130
Carbon tetrachloride	2500	2700		ug/Kg		108	65 - 122
Chlorobenzene	2500	3010		ug/Kg		120	70 - 120
Chloroethane	2500	2480		ug/Kg		99	45 - 127
Chloroform	2500	2800		ug/Kg		112	70 - 120
Chloromethane	2500	2550		ug/Kg		102	54 - 147
cis-1,2-Dichloroethene	2500	2880		ug/Kg		115	70 - 125
cis-1,3-Dichloropropene	2500	2930		ug/Kg		117	64 - 127
Dibromochloromethane	2500	2860		ug/Kg		115	68 - 125
Dibromomethane	2500	2750		ug/Kg		110	70 - 120
Dichlorodifluoromethane	2500	2570		ug/Kg		103	40 - 150
Ethylbenzene	2500	3090	*	ug/Kg		123	70 - 120
Hexachlorobutadiene	2500	3220		ug/Kg		129	51 - 150
Isopropylbenzene	2500	3070		ug/Kg		123	70 - 126
Methyl tert-butyl ether	2500	2700		ug/Kg		108	70 - 120
Methylene Chloride	2500	2830		ug/Kg		113	69 - 125
Naphthalene	2500	2810		ug/Kg		112	59 - 130
n-Butylbenzene	2500	3090		ug/Kg		124	68 - 125
N-Propylbenzene	2500	3080		ug/Kg		123	69 - 127
p-Isopropyltoluene	2500	3050		ug/Kg		122	70 - 125
sec-Butylbenzene	2500	3100	*	ug/Kg		124	70 - 123
Styrene	2500	2930		ug/Kg		117	70 - 120
tert-Butylbenzene	2500	3010		ug/Kg		120	70 - 121
Tetrachloroethene	2500	3190		ug/Kg		128	70 - 128
Toluene	2500	3180	*	ug/Kg		127	70 - 125
trans-1,2-Dichloroethene	2500	2930		ug/Kg		117	70 - 125
trans-1,3-Dichloropropene	2500	2860		ug/Kg		114	62 - 128
Trichloroethene	2500	2790		ug/Kg		112	70 - 125
Trichlorofluoromethane	2500	2610		ug/Kg		104	70 - 126
Vinyl chloride	2500	2970		ug/Kg		119	64 - 126
Xylenes, Total	5000	5880		ug/Kg		118	70 - 125

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	86		75 - 126
4-Bromofluorobenzene (Surr)	92		72 - 124
Dibromofluoromethane	90		75 - 120
Toluene-d8 (Surr)	102		75 - 120

Lab Sample ID: 500-130269-3 MS
Matrix: Solid
Analysis Batch: 392365

Client Sample ID: GP-35 (12-14)
Prep Type: Total/NA
Prep Batch: 391290

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	<27		2920	2750		ug/Kg	☼	94	70 - 125

TestAmerica Chicago

QC Sample Results

Client: TRC Environmental Corporation.
Project/Site: Multiple Sites along STH 11 - 275788

TestAmerica Job ID: 500-130269-1

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

Lab Sample ID: 500-130269-3 MS

Matrix: Solid

Analysis Batch: 392365

Client Sample ID: GP-35 (12-14)

Prep Type: Total/NA

Prep Batch: 391290

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
1,1,1-Trichloroethane	<22		2920	2710		ug/Kg	☼	93	70 - 125
1,1,2,2-Tetrachloroethane	<23		2920	2740		ug/Kg	☼	94	67 - 127
1,1,2-Trichloroethane	<21		2920	2820		ug/Kg	☼	97	70 - 122
1,1-Dichloroethane	<24		2920	2700		ug/Kg	☼	93	70 - 125
1,1-Dichloroethene	<23		2920	3020		ug/Kg	☼	103	67 - 122
1,1-Dichloropropene	<17		2920	2590		ug/Kg	☼	89	70 - 121
1,2,3-Trichlorobenzene	<27		2920	3190		ug/Kg	☼	109	55 - 140
1,2,3-Trichloropropane	<24		2920	2580		ug/Kg	☼	88	50 - 133
1,2,4-Trichlorobenzene	<20		2920	2820		ug/Kg	☼	96	66 - 127
1,2,4-Trimethylbenzene	<21		2920	2500		ug/Kg	☼	86	70 - 123
1,2-Dibromo-3-Chloropropane	<120		2920	2360		ug/Kg	☼	81	56 - 123
1,2-Dibromoethane	<23		2920	2910		ug/Kg	☼	100	70 - 125
1,2-Dichlorobenzene	<19		2920	2740		ug/Kg	☼	94	70 - 125
1,2-Dichloroethane	<23		2920	2650		ug/Kg	☼	91	68 - 127
1,2-Dichloropropane	<25		2920	2810		ug/Kg	☼	96	67 - 130
1,3,5-Trimethylbenzene	<22		2920	2510		ug/Kg	☼	86	70 - 123
1,3-Dichlorobenzene	<23		2920	2690		ug/Kg	☼	92	70 - 125
1,3-Dichloropropane	<21		2920	2650		ug/Kg	☼	91	62 - 136
1,4-Dichlorobenzene	<21		2920	2650		ug/Kg	☼	91	70 - 120
2,2-Dichloropropane	<26		2920	2900		ug/Kg	☼	99	58 - 129
2-Chlorotoluene	<18		2920	2360		ug/Kg	☼	81	70 - 125
4-Chlorotoluene	<20		2920	2360		ug/Kg	☼	81	68 - 124
Benzene	<8.5		2920	2640		ug/Kg	☼	90	70 - 120
Bromobenzene	<21		2920	2820		ug/Kg	☼	96	70 - 122
Bromochloromethane	<25		2920	2990		ug/Kg	☼	103	65 - 122
Bromodichloromethane	<22		2920	2630		ug/Kg	☼	90	69 - 120
Bromoform	<28		2920	2730		ug/Kg	☼	94	56 - 132
Bromomethane	<46		2920	3490		ug/Kg	☼	120	40 - 130
Carbon tetrachloride	<22		2920	2610		ug/Kg	☼	89	65 - 122
Chlorobenzene	<23		2920	2740		ug/Kg	☼	94	70 - 120
Chloroethane	<29		2920	2800		ug/Kg	☼	96	45 - 127
Chloroform	<22		2920	2580		ug/Kg	☼	88	70 - 120
Chloromethane	<19		2920	3950		ug/Kg	☼	135	54 - 147
cis-1,2-Dichloroethene	<24		2920	2790		ug/Kg	☼	96	70 - 125
cis-1,3-Dichloropropene	<24		2920	2590		ug/Kg	☼	89	64 - 127
Dibromochloromethane	<28		2920	2870		ug/Kg	☼	98	68 - 125
Dibromomethane	<16		2920	2640		ug/Kg	☼	91	70 - 120
Dichlorodifluoromethane	<39		2920	3340		ug/Kg	☼	114	40 - 150
Ethylbenzene	<11 *		2920	2890		ug/Kg	☼	99	70 - 120
Hexachlorobutadiene	<26		2920	2600		ug/Kg	☼	89	51 - 150
Isopropylbenzene	<22		2920	2540		ug/Kg	☼	87	70 - 126
Methyl tert-butyl ether	<23		2920	2590		ug/Kg	☼	89	70 - 120
Methylene Chloride	<95		2920	2890		ug/Kg	☼	99	69 - 125
Naphthalene	<19		2920	3250		ug/Kg	☼	111	59 - 130
n-Butylbenzene	<23		2920	2390		ug/Kg	☼	82	68 - 125
N-Propylbenzene	<24		2920	2390		ug/Kg	☼	82	69 - 127
p-Isopropyltoluene	<21		2920	2630		ug/Kg	☼	90	70 - 125
sec-Butylbenzene	<23 *		2920	2580		ug/Kg	☼	88	70 - 123

TestAmerica Chicago

QC Sample Results

Client: TRC Environmental Corporation.
Project/Site: Multiple Sites along STH 11 - 275788

TestAmerica Job ID: 500-130269-1

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

Lab Sample ID: 500-130269-3 MS

Matrix: Solid

Analysis Batch: 392365

Client Sample ID: GP-35 (12-14)

Prep Type: Total/NA

Prep Batch: 391290

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	Limits	
	Result	Qualifier	Added	Result	Qualifier					
Styrene	<23		2920	2780		ug/Kg	☼	95	70 - 120	
tert-Butylbenzene	<23		2920	2620		ug/Kg	☼	90	70 - 121	
Tetrachloroethene	<22		2920	2950		ug/Kg	☼	101	70 - 128	
Toluene	<8.6 *		2920	2660		ug/Kg	☼	91	70 - 125	
trans-1,2-Dichloroethene	<20		2920	2880		ug/Kg	☼	99	70 - 125	
trans-1,3-Dichloropropene	<21		2920	2490		ug/Kg	☼	85	62 - 128	
Trichloroethene	<9.6		2920	3160		ug/Kg	☼	108	70 - 125	
Trichlorofluoromethane	<25		2920	3010		ug/Kg	☼	103	70 - 126	
Vinyl chloride	<15		2920	3200		ug/Kg	☼	110	64 - 126	
Xylenes, Total	<13		5840	5100		ug/Kg	☼	87	70 - 125	
MS MS										
Surrogate	%Recovery	Qualifier	Limits							
1,2-Dichloroethane-d4 (Surr)	85		75 - 126							
4-Bromofluorobenzene (Surr)	84		72 - 124							
Dibromofluoromethane	93		75 - 120							
Toluene-d8 (Surr)	92		75 - 120							

Lab Sample ID: 500-130269-3 MSD

Matrix: Solid

Analysis Batch: 392365

Client Sample ID: GP-35 (12-14)

Prep Type: Total/NA

Prep Batch: 391290

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	Limits	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier						
1,1,1,2-Tetrachloroethane	<27		2920	2880		ug/Kg	☼	99	70 - 125	5	30
1,1,1-Trichloroethane	<22		2920	2870		ug/Kg	☼	98	70 - 125	6	30
1,1,1,2,2-Tetrachloroethane	<23		2920	2940		ug/Kg	☼	101	67 - 127	7	30
1,1,1,2-Trichloroethane	<21		2920	3070		ug/Kg	☼	105	70 - 122	9	30
1,1-Dichloroethane	<24		2920	2830		ug/Kg	☼	97	70 - 125	5	30
1,1-Dichloroethene	<23		2920	3160		ug/Kg	☼	108	67 - 122	5	30
1,1-Dichloropropene	<17		2920	2690		ug/Kg	☼	92	70 - 121	4	30
1,2,3-Trichlorobenzene	<27		2920	3270		ug/Kg	☼	112	55 - 140	3	30
1,2,3-Trichloropropane	<24		2920	2360		ug/Kg	☼	81	50 - 133	9	30
1,2,4-Trichlorobenzene	<20		2920	2900		ug/Kg	☼	99	66 - 127	3	30
1,2,4-Trimethylbenzene	<21		2920	2590		ug/Kg	☼	89	70 - 123	3	30
1,2-Dibromo-3-Chloropropane	<120		2920	2420		ug/Kg	☼	83	56 - 123	2	30
1,2-Dibromoethane	<23		2920	3040		ug/Kg	☼	104	70 - 125	4	30
1,2-Dichlorobenzene	<19		2920	2860		ug/Kg	☼	98	70 - 125	4	30
1,2-Dichloroethane	<23		2920	2710		ug/Kg	☼	93	68 - 127	2	30
1,2-Dichloropropane	<25		2920	2940		ug/Kg	☼	101	67 - 130	5	30
1,3,5-Trimethylbenzene	<22		2920	2580		ug/Kg	☼	88	70 - 123	3	30
1,3-Dichlorobenzene	<23		2920	2760		ug/Kg	☼	95	70 - 125	3	30
1,3-Dichloropropane	<21		2920	2810		ug/Kg	☼	96	62 - 136	6	30
1,4-Dichlorobenzene	<21		2920	2700		ug/Kg	☼	93	70 - 120	2	30
2,2-Dichloropropane	<26		2920	2960		ug/Kg	☼	102	58 - 129	2	30
2-Chlorotoluene	<18		2920	2440		ug/Kg	☼	84	70 - 125	3	30
4-Chlorotoluene	<20		2920	2400		ug/Kg	☼	82	68 - 124	2	30
Benzene	<8.5		2920	2760		ug/Kg	☼	95	70 - 120	5	30
Bromobenzene	<21		2920	2890		ug/Kg	☼	99	70 - 122	3	30
Bromochloromethane	<25		2920	3150		ug/Kg	☼	108	65 - 122	5	30

TestAmerica Chicago

QC Sample Results

Client: TRC Environmental Corporation.
 Project/Site: Multiple Sites along STH 11 - 275788

TestAmerica Job ID: 500-130269-1

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

Lab Sample ID: 500-130269-3 MSD
Matrix: Solid
Analysis Batch: 392365

Client Sample ID: GP-35 (12-14)
Prep Type: Total/NA
Prep Batch: 391290

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier				Limits		
Bromodichloromethane	<22		2920	2760		ug/Kg	☼	95	69 - 120	5	30
Bromoform	<28		2920	2860		ug/Kg	☼	98	56 - 132	4	30
Bromomethane	<46		2920	3710		ug/Kg	☼	127	40 - 130	6	30
Carbon tetrachloride	<22		2920	2730		ug/Kg	☼	94	65 - 122	5	30
Chlorobenzene	<23		2920	2820		ug/Kg	☼	97	70 - 120	3	30
Chloroethane	<29		2920	3110		ug/Kg	☼	106	45 - 127	10	30
Chloroform	<22		2920	2730		ug/Kg	☼	93	70 - 120	6	30
Chloromethane	<19		2920	4040		ug/Kg	☼	139	54 - 147	2	30
cis-1,2-Dichloroethene	<24		2920	2920		ug/Kg	☼	100	70 - 125	5	30
cis-1,3-Dichloropropene	<24		2920	2730		ug/Kg	☼	94	64 - 127	5	30
Dibromochloromethane	<28		2920	3000		ug/Kg	☼	103	68 - 125	4	30
Dibromomethane	<16		2920	2770		ug/Kg	☼	95	70 - 120	5	30
Dichlorodifluoromethane	<39		2920	3580		ug/Kg	☼	123	40 - 150	7	30
Ethylbenzene	<11 *		2920	2990		ug/Kg	☼	102	70 - 120	3	30
Hexachlorobutadiene	<26		2920	2690		ug/Kg	☼	92	51 - 150	3	30
Isopropylbenzene	<22		2920	2630		ug/Kg	☼	90	70 - 126	3	30
Methyl tert-butyl ether	<23		2920	2700		ug/Kg	☼	93	70 - 120	4	30
Methylene Chloride	<95		2920	3060		ug/Kg	☼	105	69 - 125	6	30
Naphthalene	<19		2920	3360		ug/Kg	☼	115	59 - 130	3	30
n-Butylbenzene	<23		2920	2450		ug/Kg	☼	84	68 - 125	2	30
N-Propylbenzene	<24		2920	2440		ug/Kg	☼	84	69 - 127	2	30
p-Isopropyltoluene	<21		2920	2690		ug/Kg	☼	92	70 - 125	2	30
sec-Butylbenzene	<23 *		2920	2650		ug/Kg	☼	91	70 - 123	3	30
Styrene	<23		2920	2890		ug/Kg	☼	99	70 - 120	4	30
tert-Butylbenzene	<23		2920	2740		ug/Kg	☼	94	70 - 121	5	30
Tetrachloroethene	<22		2920	3070		ug/Kg	☼	105	70 - 128	4	30
Toluene	<8.6 *		2920	2760		ug/Kg	☼	95	70 - 125	4	30
trans-1,2-Dichloroethene	<20		2920	3020		ug/Kg	☼	103	70 - 125	5	30
trans-1,3-Dichloropropene	<21		2920	2650		ug/Kg	☼	91	62 - 128	6	30
Trichloroethene	<9.6		2920	3210		ug/Kg	☼	110	70 - 125	2	30
Trichlorofluoromethane	<25		2920	3090		ug/Kg	☼	106	70 - 126	3	30
Vinyl chloride	<15		2920	3310		ug/Kg	☼	114	64 - 126	4	30
Xylenes, Total	<13		5840	5320		ug/Kg	☼	91	70 - 125	4	30

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	88		75 - 126
4-Bromofluorobenzene (Surr)	84		72 - 124
Dibromofluoromethane	94		75 - 120
Toluene-d8 (Surr)	94		75 - 120

Lab Sample ID: MB 500-391652/7
Matrix: Solid
Analysis Batch: 391652

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	<0.46		1.0	0.46	ug/Kg			07/03/17 09:31	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/Kg			07/03/17 09:31	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/Kg			07/03/17 09:31	1

TestAmerica Chicago

QC Sample Results

Client: TRC Environmental Corporation.
 Project/Site: Multiple Sites along STH 11 - 275788

TestAmerica Job ID: 500-130269-1

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

Lab Sample ID: MB 500-391652/7
Matrix: Solid
Analysis Batch: 391652

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/Kg			07/03/17 09:31	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/Kg			07/03/17 09:31	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/Kg			07/03/17 09:31	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/Kg			07/03/17 09:31	1
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/Kg			07/03/17 09:31	1
1,2,3-Trichloropropane	<0.41		1.0	0.41	ug/Kg			07/03/17 09:31	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/Kg			07/03/17 09:31	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/Kg			07/03/17 09:31	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/Kg			07/03/17 09:31	1
1,2-Dibromoethane	<0.39		1.0	0.39	ug/Kg			07/03/17 09:31	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/Kg			07/03/17 09:31	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/Kg			07/03/17 09:31	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/Kg			07/03/17 09:31	1
1,3,5-Trimethylbenzene	<0.38		1.0	0.38	ug/Kg			07/03/17 09:31	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/Kg			07/03/17 09:31	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/Kg			07/03/17 09:31	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/Kg			07/03/17 09:31	1
2,2-Dichloropropane	<0.44		1.0	0.44	ug/Kg			07/03/17 09:31	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/Kg			07/03/17 09:31	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/Kg			07/03/17 09:31	1
Benzene	<0.15		0.25	0.15	ug/Kg			07/03/17 09:31	1
Bromobenzene	<0.36		1.0	0.36	ug/Kg			07/03/17 09:31	1
Bromochloromethane	<0.43		1.0	0.43	ug/Kg			07/03/17 09:31	1
Bromodichloromethane	<0.37		1.0	0.37	ug/Kg			07/03/17 09:31	1
Bromoform	<0.48		1.0	0.48	ug/Kg			07/03/17 09:31	1
Bromomethane	<0.80		2.0	0.80	ug/Kg			07/03/17 09:31	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/Kg			07/03/17 09:31	1
Chlorobenzene	<0.39		1.0	0.39	ug/Kg			07/03/17 09:31	1
Chloroethane	<0.50		1.0	0.50	ug/Kg			07/03/17 09:31	1
Chloroform	<0.37		2.0	0.37	ug/Kg			07/03/17 09:31	1
Chloromethane	<0.32		1.0	0.32	ug/Kg			07/03/17 09:31	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/Kg			07/03/17 09:31	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/Kg			07/03/17 09:31	1
Dibromochloromethane	<0.49		1.0	0.49	ug/Kg			07/03/17 09:31	1
Dibromomethane	<0.27		1.0	0.27	ug/Kg			07/03/17 09:31	1
Dichlorodifluoromethane	<0.67		2.0	0.67	ug/Kg			07/03/17 09:31	1
Ethylbenzene	<0.18		0.25	0.18	ug/Kg			07/03/17 09:31	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/Kg			07/03/17 09:31	1
Isopropyl ether	<0.28		1.0	0.28	ug/Kg			07/03/17 09:31	1
Isopropylbenzene	<0.38		1.0	0.38	ug/Kg			07/03/17 09:31	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/Kg			07/03/17 09:31	1
Methylene Chloride	<1.6		5.0	1.6	ug/Kg			07/03/17 09:31	1
Naphthalene	<0.33		1.0	0.33	ug/Kg			07/03/17 09:31	1
n-Butylbenzene	<0.39		1.0	0.39	ug/Kg			07/03/17 09:31	1
N-Propylbenzene	<0.41		1.0	0.41	ug/Kg			07/03/17 09:31	1
p-Isopropyltoluene	<0.36		1.0	0.36	ug/Kg			07/03/17 09:31	1
sec-Butylbenzene	<0.40		1.0	0.40	ug/Kg			07/03/17 09:31	1
Styrene	<0.39		1.0	0.39	ug/Kg			07/03/17 09:31	1

TestAmerica Chicago

QC Sample Results

Client: TRC Environmental Corporation.
Project/Site: Multiple Sites along STH 11 - 275788

TestAmerica Job ID: 500-130269-1

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

Lab Sample ID: MB 500-391652/7
Matrix: Solid
Analysis Batch: 391652

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
tert-Butylbenzene	<0.40		1.0	0.40	ug/Kg			07/03/17 09:31	1
Tetrachloroethene	<0.37		1.0	0.37	ug/Kg			07/03/17 09:31	1
Toluene	<0.15		0.25	0.15	ug/Kg			07/03/17 09:31	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/Kg			07/03/17 09:31	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/Kg			07/03/17 09:31	1
Trichloroethene	<0.16		0.50	0.16	ug/Kg			07/03/17 09:31	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/Kg			07/03/17 09:31	1
Vinyl chloride	<0.26		0.50	0.26	ug/Kg			07/03/17 09:31	1
Xylenes, Total	<0.22		0.50	0.22	ug/Kg			07/03/17 09:31	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	83		75 - 126		07/03/17 09:31	1
4-Bromofluorobenzene (Surr)	96		72 - 124		07/03/17 09:31	1
Dibromofluoromethane	87		75 - 120		07/03/17 09:31	1
Toluene-d8 (Surr)	102		75 - 120		07/03/17 09:31	1

Lab Sample ID: LCS 500-391652/5
Matrix: Solid
Analysis Batch: 391652

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	44.1		ug/Kg		88	70 - 125
1,1,1-Trichloroethane	50.0	46.1		ug/Kg		92	70 - 125
1,1,1,2-Tetrachloroethane	50.0	41.3		ug/Kg		83	67 - 127
1,1,2-Trichloroethane	50.0	42.8		ug/Kg		86	70 - 122
1,1-Dichloroethane	50.0	44.4		ug/Kg		89	70 - 125
1,1-Dichloroethene	50.0	47.8		ug/Kg		96	67 - 122
1,1-Dichloropropene	50.0	47.5		ug/Kg		95	70 - 121
1,2,3-Trichlorobenzene	50.0	42.6		ug/Kg		85	55 - 140
1,2,3-Trichloropropane	50.0	39.9		ug/Kg		80	50 - 133
1,2,4-Trichlorobenzene	50.0	44.7		ug/Kg		89	66 - 127
1,2,4-Trimethylbenzene	50.0	48.4		ug/Kg		97	70 - 123
1,2-Dibromo-3-Chloropropane	50.0	36.9		ug/Kg		74	56 - 123
1,2-Dibromoethane	50.0	43.7		ug/Kg		87	70 - 125
1,2-Dichlorobenzene	50.0	45.6		ug/Kg		91	70 - 125
1,2-Dichloroethane	50.0	39.8		ug/Kg		80	68 - 127
1,2-Dichloropropane	50.0	45.0		ug/Kg		90	67 - 130
1,3,5-Trimethylbenzene	50.0	48.8		ug/Kg		98	70 - 123
1,3-Dichlorobenzene	50.0	47.7		ug/Kg		95	70 - 125
1,3-Dichloropropane	50.0	43.9		ug/Kg		88	62 - 136
1,4-Dichlorobenzene	50.0	45.9		ug/Kg		92	70 - 120
2,2-Dichloropropane	50.0	43.1		ug/Kg		86	58 - 129
2-Chlorotoluene	50.0	46.9		ug/Kg		94	70 - 125
4-Chlorotoluene	50.0	47.7		ug/Kg		95	68 - 124
Benzene	50.0	46.9		ug/Kg		94	70 - 120
Bromobenzene	50.0	46.5		ug/Kg		93	70 - 122
Bromochloromethane	50.0	43.1		ug/Kg		86	65 - 122
Bromodichloromethane	50.0	41.9		ug/Kg		84	69 - 120

TestAmerica Chicago

QC Sample Results

Client: TRC Environmental Corporation.
 Project/Site: Multiple Sites along STH 11 - 275788

TestAmerica Job ID: 500-130269-1

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

Lab Sample ID: LCS 500-391652/5
Matrix: Solid
Analysis Batch: 391652

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	39.8		ug/Kg		80	56 - 132
Bromomethane	50.0	46.2		ug/Kg		92	40 - 130
Carbon tetrachloride	50.0	44.7		ug/Kg		89	65 - 122
Chlorobenzene	50.0	46.4		ug/Kg		93	70 - 120
Chloroethane	50.0	45.2		ug/Kg		90	45 - 127
Chloroform	50.0	43.5		ug/Kg		87	70 - 120
Chloromethane	50.0	49.2		ug/Kg		98	54 - 147
cis-1,2-Dichloroethene	50.0	45.5		ug/Kg		91	70 - 125
cis-1,3-Dichloropropene	50.0	43.7		ug/Kg		87	64 - 127
Dibromochloromethane	50.0	42.8		ug/Kg		86	68 - 125
Dibromomethane	50.0	40.1		ug/Kg		80	70 - 120
Dichlorodifluoromethane	50.0	64.8		ug/Kg		130	40 - 150
Ethylbenzene	50.0	48.3		ug/Kg		97	70 - 120
Hexachlorobutadiene	50.0	51.4		ug/Kg		103	51 - 150
Isopropylbenzene	50.0	49.4		ug/Kg		99	70 - 126
Methyl tert-butyl ether	50.0	38.9		ug/Kg		78	70 - 120
Methylene Chloride	50.0	45.1		ug/Kg		90	69 - 125
Naphthalene	50.0	40.1		ug/Kg		80	59 - 130
n-Butylbenzene	50.0	50.7		ug/Kg		101	68 - 125
N-Propylbenzene	50.0	49.9		ug/Kg		100	69 - 127
p-Isopropyltoluene	50.0	48.9		ug/Kg		98	70 - 125
sec-Butylbenzene	50.0	50.7		ug/Kg		101	70 - 123
Styrene	50.0	45.2		ug/Kg		90	70 - 120
tert-Butylbenzene	50.0	49.5		ug/Kg		99	70 - 121
Tetrachloroethene	50.0	52.1		ug/Kg		104	70 - 128
Toluene	50.0	49.8		ug/Kg		100	70 - 125
trans-1,2-Dichloroethene	50.0	47.3		ug/Kg		95	70 - 125
trans-1,3-Dichloropropene	50.0	41.9		ug/Kg		84	62 - 128
Trichloroethene	50.0	44.8		ug/Kg		90	70 - 125
Trichlorofluoromethane	50.0	47.6		ug/Kg		95	70 - 126
Vinyl chloride	50.0	56.7		ug/Kg		113	64 - 126
Xylenes, Total	100	93.0		ug/Kg		93	70 - 125

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	82		75 - 126
4-Bromofluorobenzene (Surr)	94		72 - 124
Dibromofluoromethane	90		75 - 120
Toluene-d8 (Surr)	104		75 - 120

Lab Sample ID: MB 500-392365/6
Matrix: Solid
Analysis Batch: 392365

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	<0.46		1.0	0.46	ug/Kg			07/10/17 08:51	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/Kg			07/10/17 08:51	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/Kg			07/10/17 08:51	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/Kg			07/10/17 08:51	1

TestAmerica Chicago

QC Sample Results

Client: TRC Environmental Corporation.
 Project/Site: Multiple Sites along STH 11 - 275788

TestAmerica Job ID: 500-130269-1

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

Lab Sample ID: MB 500-392365/6
Matrix: Solid
Analysis Batch: 392365

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
1,1-Dichloroethane	<0.41		1.0	0.41	ug/Kg			07/10/17 08:51	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/Kg			07/10/17 08:51	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/Kg			07/10/17 08:51	1
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/Kg			07/10/17 08:51	1
1,2,3-Trichloropropane	<0.41		1.0	0.41	ug/Kg			07/10/17 08:51	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/Kg			07/10/17 08:51	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/Kg			07/10/17 08:51	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/Kg			07/10/17 08:51	1
1,2-Dibromoethane	<0.39		1.0	0.39	ug/Kg			07/10/17 08:51	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/Kg			07/10/17 08:51	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/Kg			07/10/17 08:51	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/Kg			07/10/17 08:51	1
1,3,5-Trimethylbenzene	<0.38		1.0	0.38	ug/Kg			07/10/17 08:51	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/Kg			07/10/17 08:51	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/Kg			07/10/17 08:51	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/Kg			07/10/17 08:51	1
2,2-Dichloropropane	<0.44		1.0	0.44	ug/Kg			07/10/17 08:51	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/Kg			07/10/17 08:51	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/Kg			07/10/17 08:51	1
Benzene	<0.15		0.25	0.15	ug/Kg			07/10/17 08:51	1
Bromobenzene	<0.36		1.0	0.36	ug/Kg			07/10/17 08:51	1
Bromochloromethane	<0.43		1.0	0.43	ug/Kg			07/10/17 08:51	1
Bromodichloromethane	<0.37		1.0	0.37	ug/Kg			07/10/17 08:51	1
Bromoform	<0.48		1.0	0.48	ug/Kg			07/10/17 08:51	1
Bromomethane	<0.80		2.0	0.80	ug/Kg			07/10/17 08:51	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/Kg			07/10/17 08:51	1
Chlorobenzene	<0.39		1.0	0.39	ug/Kg			07/10/17 08:51	1
Chloroethane	<0.50		1.0	0.50	ug/Kg			07/10/17 08:51	1
Chloroform	<0.37		2.0	0.37	ug/Kg			07/10/17 08:51	1
Chloromethane	<0.32		1.0	0.32	ug/Kg			07/10/17 08:51	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/Kg			07/10/17 08:51	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/Kg			07/10/17 08:51	1
Dibromochloromethane	<0.49		1.0	0.49	ug/Kg			07/10/17 08:51	1
Dibromomethane	<0.27		1.0	0.27	ug/Kg			07/10/17 08:51	1
Dichlorodifluoromethane	<0.67		2.0	0.67	ug/Kg			07/10/17 08:51	1
Ethylbenzene	<0.18		0.25	0.18	ug/Kg			07/10/17 08:51	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/Kg			07/10/17 08:51	1
Isopropyl ether	<0.28		1.0	0.28	ug/Kg			07/10/17 08:51	1
Isopropylbenzene	<0.38		1.0	0.38	ug/Kg			07/10/17 08:51	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/Kg			07/10/17 08:51	1
Methylene Chloride	<1.6		5.0	1.6	ug/Kg			07/10/17 08:51	1
Naphthalene	<0.33		1.0	0.33	ug/Kg			07/10/17 08:51	1
n-Butylbenzene	<0.39		1.0	0.39	ug/Kg			07/10/17 08:51	1
N-Propylbenzene	<0.41		1.0	0.41	ug/Kg			07/10/17 08:51	1
p-Isopropyltoluene	<0.36		1.0	0.36	ug/Kg			07/10/17 08:51	1
sec-Butylbenzene	<0.40		1.0	0.40	ug/Kg			07/10/17 08:51	1
Styrene	<0.39		1.0	0.39	ug/Kg			07/10/17 08:51	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/Kg			07/10/17 08:51	1

TestAmerica Chicago

QC Sample Results

Client: TRC Environmental Corporation.
 Project/Site: Multiple Sites along STH 11 - 275788

TestAmerica Job ID: 500-130269-1

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

Lab Sample ID: MB 500-392365/6
Matrix: Solid
Analysis Batch: 392365

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	<0.37		1.0	0.37	ug/Kg			07/10/17 08:51	1
Toluene	<0.15		0.25	0.15	ug/Kg			07/10/17 08:51	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/Kg			07/10/17 08:51	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/Kg			07/10/17 08:51	1
Trichloroethene	<0.16		0.50	0.16	ug/Kg			07/10/17 08:51	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/Kg			07/10/17 08:51	1
Vinyl chloride	<0.26		0.50	0.26	ug/Kg			07/10/17 08:51	1
Xylenes, Total	<0.22		0.50	0.22	ug/Kg			07/10/17 08:51	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	85		75 - 126		07/10/17 08:51	1
4-Bromofluorobenzene (Surr)	84		72 - 124		07/10/17 08:51	1
Dibromofluoromethane	93		75 - 120		07/10/17 08:51	1
Toluene-d8 (Surr)	93		75 - 120		07/10/17 08:51	1

Lab Sample ID: LCS 500-392365/4
Matrix: Solid
Analysis Batch: 392365

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	46.2		ug/Kg		92	70 - 125
1,1,1-Trichloroethane	50.0	48.8		ug/Kg		98	70 - 125
1,1,2,2-Tetrachloroethane	50.0	42.1		ug/Kg		84	67 - 127
1,1,2-Trichloroethane	50.0	45.0		ug/Kg		90	70 - 122
1,1-Dichloroethane	50.0	45.8		ug/Kg		92	70 - 125
1,1-Dichloroethene	50.0	53.2		ug/Kg		106	67 - 122
1,1-Dichloropropene	50.0	45.6		ug/Kg		91	70 - 121
1,2,3-Trichlorobenzene	50.0	49.5		ug/Kg		99	55 - 140
1,2,3-Trichloropropane	50.0	37.6		ug/Kg		75	50 - 133
1,2,4-Trichlorobenzene	50.0	47.6		ug/Kg		95	66 - 127
1,2,4-Trimethylbenzene	50.0	41.9		ug/Kg		84	70 - 123
1,2-Dibromo-3-Chloropropane	50.0	36.1		ug/Kg		72	56 - 123
1,2-Dibromoethane	50.0	47.0		ug/Kg		94	70 - 125
1,2-Dichlorobenzene	50.0	45.4		ug/Kg		91	70 - 125
1,2-Dichloroethane	50.0	42.4		ug/Kg		85	68 - 127
1,2-Dichloropropane	50.0	45.1		ug/Kg		90	67 - 130
1,3,5-Trimethylbenzene	50.0	42.5		ug/Kg		85	70 - 123
1,3-Dichlorobenzene	50.0	45.5		ug/Kg		91	70 - 125
1,3-Dichloropropane	50.0	42.3		ug/Kg		85	62 - 136
1,4-Dichlorobenzene	50.0	44.8		ug/Kg		90	70 - 120
2,2-Dichloropropane	50.0	54.7		ug/Kg		109	58 - 129
2-Chlorotoluene	50.0	39.8		ug/Kg		80	70 - 125
4-Chlorotoluene	50.0	39.7		ug/Kg		79	68 - 124
Benzene	50.0	43.5		ug/Kg		87	70 - 120
Bromobenzene	50.0	46.0		ug/Kg		92	70 - 122
Bromochloromethane	50.0	48.7		ug/Kg		97	65 - 122
Bromodichloromethane	50.0	43.0		ug/Kg		86	69 - 120
Bromoform	50.0	47.0		ug/Kg		94	56 - 132

TestAmerica Chicago

QC Sample Results

Client: TRC Environmental Corporation.
Project/Site: Multiple Sites along STH 11 - 275788

TestAmerica Job ID: 500-130269-1

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

Lab Sample ID: LCS 500-392365/4
Matrix: Solid
Analysis Batch: 392365

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	59.8		ug/Kg		120	40 - 130
Carbon tetrachloride	50.0	46.9		ug/Kg		94	65 - 122
Chlorobenzene	50.0	45.3		ug/Kg		91	70 - 120
Chloroethane	50.0	54.6		ug/Kg		109	45 - 127
Chloroform	50.0	43.5		ug/Kg		87	70 - 120
Chloromethane	50.0	66.0		ug/Kg		132	54 - 147
cis-1,2-Dichloroethene	50.0	46.8		ug/Kg		94	70 - 125
cis-1,3-Dichloropropene	50.0	42.6		ug/Kg		85	64 - 127
Dibromochloromethane	50.0	46.7		ug/Kg		93	68 - 125
Dibromomethane	50.0	42.0		ug/Kg		84	70 - 120
Dichlorodifluoromethane	50.0	58.4		ug/Kg		117	40 - 150
Ethylbenzene	50.0	49.4		ug/Kg		99	70 - 120
Hexachlorobutadiene	50.0	44.3		ug/Kg		89	51 - 150
Isopropylbenzene	50.0	43.8		ug/Kg		88	70 - 126
Methyl tert-butyl ether	50.0	41.0		ug/Kg		82	70 - 120
Methylene Chloride	50.0	48.2		ug/Kg		96	69 - 125
Naphthalene	50.0	47.4		ug/Kg		95	59 - 130
n-Butylbenzene	50.0	42.4		ug/Kg		85	68 - 125
N-Propylbenzene	50.0	41.1		ug/Kg		82	69 - 127
p-Isopropyltoluene	50.0	45.2		ug/Kg		90	70 - 125
sec-Butylbenzene	50.0	43.6		ug/Kg		87	70 - 123
Styrene	50.0	46.1		ug/Kg		92	70 - 120
tert-Butylbenzene	50.0	43.9		ug/Kg		88	70 - 121
Tetrachloroethene	50.0	52.8		ug/Kg		106	70 - 128
Toluene	50.0	44.4		ug/Kg		89	70 - 125
trans-1,2-Dichloroethene	50.0	51.5		ug/Kg		103	70 - 125
trans-1,3-Dichloropropene	50.0	41.7		ug/Kg		83	62 - 128
Trichloroethene	50.0	53.3		ug/Kg		107	70 - 125
Trichlorofluoromethane	50.0	51.7		ug/Kg		103	70 - 126
Vinyl chloride	50.0	52.7		ug/Kg		105	64 - 126
Xylenes, Total	100	87.8		ug/Kg		88	70 - 125

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	83		75 - 126
4-Bromofluorobenzene (Surr)	82		72 - 124
Dibromofluoromethane	93		75 - 120
Toluene-d8 (Surr)	92		75 - 120

Method: WDNR - Wisconsin - Gasoline Range Organics (GC)

Lab Sample ID: MB 490-441726/1-A
Matrix: Solid
Analysis Batch: 442472

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 441726

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<18		25	18	ug/Kg		06/30/17 08:52	07/03/17 17:55	1
Ethylbenzene	<19		25	19	ug/Kg		06/30/17 08:52	07/03/17 17:55	1
Methyl tert-butyl ether	<12		25	12	ug/Kg		06/30/17 08:52	07/03/17 17:55	1

TestAmerica Chicago

QC Sample Results

Client: TRC Environmental Corporation.
 Project/Site: Multiple Sites along STH 11 - 275788

TestAmerica Job ID: 500-130269-1

Method: WDNR - Wisconsin - Gasoline Range Organics (GC) (Continued)

Lab Sample ID: MB 490-441726/1-A
Matrix: Solid
Analysis Batch: 442472

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 441726

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	<120		250	120	ug/Kg		06/30/17 08:52	07/03/17 17:55	1
Toluene	<17		25	17	ug/Kg		06/30/17 08:52	07/03/17 17:55	1
1,2,4-Trimethylbenzene	<15		25	15	ug/Kg		06/30/17 08:52	07/03/17 17:55	1
1,3,5-Trimethylbenzene	<15		25	15	ug/Kg		06/30/17 08:52	07/03/17 17:55	1
Xylenes, Total	<30		75	30	ug/Kg		06/30/17 08:52	07/03/17 17:55	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	92		80 - 120	06/30/17 08:52	07/03/17 17:55	1

Lab Sample ID: MB 490-441726/52-A
Matrix: Solid
Analysis Batch: 442527

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 441726

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<18		25	18	ug/Kg		06/30/17 09:14	07/04/17 11:37	1
Ethylbenzene	<19		25	19	ug/Kg		06/30/17 09:14	07/04/17 11:37	1
Methyl tert-butyl ether	<12		25	12	ug/Kg		06/30/17 09:14	07/04/17 11:37	1
Naphthalene	<120		250	120	ug/Kg		06/30/17 09:14	07/04/17 11:37	1
Toluene	<17		25	17	ug/Kg		06/30/17 09:14	07/04/17 11:37	1
1,2,4-Trimethylbenzene	<15		25	15	ug/Kg		06/30/17 09:14	07/04/17 11:37	1
1,3,5-Trimethylbenzene	<15		25	15	ug/Kg		06/30/17 09:14	07/04/17 11:37	1
Xylenes, Total	<30		75	30	ug/Kg		06/30/17 09:14	07/04/17 11:37	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	89		80 - 120	06/30/17 09:14	07/04/17 11:37	1

Lab Sample ID: LCS 490-441726/2-A
Matrix: Solid
Analysis Batch: 442472

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 441726

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Benzene	5000	4770		ug/Kg		95	76 - 120
Ethylbenzene	5000	4950		ug/Kg		99	77 - 120
Methyl tert-butyl ether	5000	4460		ug/Kg		89	73 - 120
Naphthalene	5000	4140		ug/Kg		83	74 - 127
Toluene	5000	4810		ug/Kg		96	79 - 120
1,2,4-Trimethylbenzene	5000	4530		ug/Kg		91	60 - 140
1,3,5-Trimethylbenzene	5000	4690		ug/Kg		94	74 - 133

Surrogate	LCS %Recovery	LCS Qualifier	Limits
a,a,a-Trifluorotoluene	100		80 - 120

QC Sample Results

Client: TRC Environmental Corporation.
 Project/Site: Multiple Sites along STH 11 - 275788

TestAmerica Job ID: 500-130269-1

Method: WDNR - Wisconsin - Gasoline Range Organics (GC) (Continued)

Lab Sample ID: LCS 490-441726/53-A
Matrix: Solid
Analysis Batch: 442527

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 441726

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Benzene	5000	5020		ug/Kg		100	76 - 120
Ethylbenzene	5000	5090		ug/Kg		102	77 - 120
Methyl tert-butyl ether	5000	4700		ug/Kg		94	73 - 120
Naphthalene	5000	4380		ug/Kg		88	74 - 127
Toluene	5000	5080		ug/Kg		102	79 - 120
1,2,4-Trimethylbenzene	5000	4770		ug/Kg		95	60 - 140
1,3,5-Trimethylbenzene	5000	4940		ug/Kg		99	74 - 133

Surrogate	LCS %Recovery	LCS Qualifier	Limits
<i>a,a,a-Trifluorotoluene</i>	96		80 - 120

Lab Sample ID: LCSD 490-441726/3-A
Matrix: Solid
Analysis Batch: 442472

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 441726

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	5000	4860		ug/Kg		97	76 - 120	2	27
Ethylbenzene	5000	4980		ug/Kg		100	77 - 120	1	49
Methyl tert-butyl ether	5000	4610		ug/Kg		92	73 - 120	3	31
Naphthalene	5000	3960		ug/Kg		79	74 - 127	4	50
Toluene	5000	4870		ug/Kg		97	79 - 120	1	37
1,2,4-Trimethylbenzene	5000	4510		ug/Kg		90	60 - 140	1	50
1,3,5-Trimethylbenzene	5000	4690		ug/Kg		94	74 - 133	0	42

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
<i>a,a,a-Trifluorotoluene</i>	104		80 - 120

Lab Sample ID: LCSD 490-441726/54-A
Matrix: Solid
Analysis Batch: 442527

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 441726

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	5000	4910		ug/Kg		98	76 - 120	2	27
Ethylbenzene	5000	5050		ug/Kg		101	77 - 120	1	49
Methyl tert-butyl ether	5000	4790		ug/Kg		96	73 - 120	2	31
Naphthalene	5000	4130		ug/Kg		83	74 - 127	6	50
Toluene	5000	4960		ug/Kg		99	79 - 120	2	37
1,2,4-Trimethylbenzene	5000	4660		ug/Kg		93	60 - 140	2	50
1,3,5-Trimethylbenzene	5000	4840		ug/Kg		97	74 - 133	2	42

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
<i>a,a,a-Trifluorotoluene</i>	105		80 - 120

QC Sample Results

Client: TRC Environmental Corporation.
 Project/Site: Multiple Sites along STH 11 - 275788

TestAmerica Job ID: 500-130269-1

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 500-391928/1-A
Matrix: Solid
Analysis Batch: 392169

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 391928

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	<0.23		0.50	0.23	mg/Kg		07/05/17 15:05	07/06/17 12:43	1

Lab Sample ID: LCS 500-391928/2-A
Matrix: Solid
Analysis Batch: 392169

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 391928

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Lead	10.0	8.39		mg/Kg		84	80 - 120



Lab Chronicle

Client: TRC Environmental Corporation.
Project/Site: Multiple Sites along STH 11 - 275788

TestAmerica Job ID: 500-130269-1

Client Sample ID: GP-35 (4-6)

Date Collected: 06/27/17 08:30

Date Received: 06/28/17 10:10

Lab Sample ID: 500-130269-1

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	391194	06/28/17 14:04	LWN	TAL CHI

Client Sample ID: GP-35 (4-6)

Date Collected: 06/27/17 08:30

Date Received: 06/28/17 10:10

Lab Sample ID: 500-130269-1

Matrix: Solid

Percent Solids: 87.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			391290	06/27/17 08:30	WRE	TAL CHI
Total/NA	Analysis	8260B		50	392365	07/10/17 15:27	PMF	TAL CHI

Client Sample ID: GP-35 (8-10)

Date Collected: 06/27/17 08:40

Date Received: 06/28/17 10:10

Lab Sample ID: 500-130269-2

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	391194	06/28/17 14:04	LWN	TAL CHI

Client Sample ID: GP-35 (8-10)

Date Collected: 06/27/17 08:40

Date Received: 06/28/17 10:10

Lab Sample ID: 500-130269-2

Matrix: Solid

Percent Solids: 87.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			391290	06/27/17 08:40	WRE	TAL CHI
Total/NA	Analysis	8260B		50	392365	07/10/17 15:53	PMF	TAL CHI

Client Sample ID: GP-35 (12-14)

Date Collected: 06/27/17 08:45

Date Received: 06/28/17 10:10

Lab Sample ID: 500-130269-3

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	391194	06/28/17 14:04	LWN	TAL CHI

Client Sample ID: GP-35 (12-14)

Date Collected: 06/27/17 08:45

Date Received: 06/28/17 10:10

Lab Sample ID: 500-130269-3

Matrix: Solid

Percent Solids: 88.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			391290	06/27/17 08:45	WRE	TAL CHI
Total/NA	Analysis	8260B		50	392365	07/10/17 16:19	PMF	TAL CHI

TestAmerica Chicago

Lab Chronicle

Client: TRC Environmental Corporation.
Project/Site: Multiple Sites along STH 11 - 275788

TestAmerica Job ID: 500-130269-1

Client Sample ID: GP-36 (2-4)

Lab Sample ID: 500-130269-4

Date Collected: 06/27/17 09:25

Matrix: Solid

Date Received: 06/28/17 10:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	441458	06/29/17 12:21	BAA	TAL NSH

Client Sample ID: GP-36 (2-4)

Lab Sample ID: 500-130269-4

Date Collected: 06/27/17 09:25

Matrix: Solid

Date Received: 06/28/17 10:10

Percent Solids: 78.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	WI GRO			441726	06/30/17 08:52	CU	TAL NSH
Total/NA	Analysis	WDNR		1	442472	07/03/17 18:21	A1B	TAL NSH

Client Sample ID: GP-36 (6-8)

Lab Sample ID: 500-130269-5

Date Collected: 06/27/17 09:30

Matrix: Solid

Date Received: 06/28/17 10:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	441458	06/29/17 12:21	BAA	TAL NSH

Client Sample ID: GP-36 (6-8)

Lab Sample ID: 500-130269-5

Date Collected: 06/27/17 09:30

Matrix: Solid

Date Received: 06/28/17 10:10

Percent Solids: 82.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	WI GRO			441726	06/30/17 08:52	CU	TAL NSH
Total/NA	Analysis	WDNR		1	442472	07/03/17 18:48	A1B	TAL NSH

Client Sample ID: GP-37 (2-4)

Lab Sample ID: 500-130269-6

Date Collected: 06/27/17 09:40

Matrix: Solid

Date Received: 06/28/17 10:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	441458	06/29/17 12:21	BAA	TAL NSH

Client Sample ID: GP-37 (2-4)

Lab Sample ID: 500-130269-6

Date Collected: 06/27/17 09:40

Matrix: Solid

Date Received: 06/28/17 10:10

Percent Solids: 87.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	WI GRO			441726	06/30/17 08:52	CU	TAL NSH
Total/NA	Analysis	WDNR		1	442472	07/03/17 19:15	A1B	TAL NSH

TestAmerica Chicago

Lab Chronicle

Client: TRC Environmental Corporation.
Project/Site: Multiple Sites along STH 11 - 275788

TestAmerica Job ID: 500-130269-1

Client Sample ID: GP-37 (6-8)

Date Collected: 06/27/17 09:45

Date Received: 06/28/17 10:10

Lab Sample ID: 500-130269-7

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	441458	06/29/17 12:21	BAA	TAL NSH

Client Sample ID: GP-37 (6-8)

Date Collected: 06/27/17 09:45

Date Received: 06/28/17 10:10

Lab Sample ID: 500-130269-7

Matrix: Solid

Percent Solids: 80.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	WI GRO			441726	06/30/17 08:52	CU	TAL NSH
Total/NA	Analysis	WDNR		1	442472	07/03/17 19:42	A1B	TAL NSH

Client Sample ID: GP-38 (2-4)

Date Collected: 06/27/17 10:05

Date Received: 06/28/17 10:10

Lab Sample ID: 500-130269-8

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	441458	06/29/17 12:21	BAA	TAL NSH

Client Sample ID: GP-38 (2-4)

Date Collected: 06/27/17 10:05

Date Received: 06/28/17 10:10

Lab Sample ID: 500-130269-8

Matrix: Solid

Percent Solids: 82.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	WI GRO			441726	06/30/17 08:52	CU	TAL NSH
Total/NA	Analysis	WDNR		1	442472	07/03/17 20:08	A1B	TAL NSH

Client Sample ID: GP-38 (6-8)

Date Collected: 06/27/17 10:10

Date Received: 06/28/17 10:10

Lab Sample ID: 500-130269-9

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	441458	06/29/17 12:21	BAA	TAL NSH

Client Sample ID: GP-38 (6-8)

Date Collected: 06/27/17 10:10

Date Received: 06/28/17 10:10

Lab Sample ID: 500-130269-9

Matrix: Solid

Percent Solids: 81.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	WI GRO			441726	06/30/17 08:52	CU	TAL NSH
Total/NA	Analysis	WDNR		10	442472	07/03/17 20:35	A1B	TAL NSH

TestAmerica Chicago

Lab Chronicle

Client: TRC Environmental Corporation.
Project/Site: Multiple Sites along STH 11 - 275788

TestAmerica Job ID: 500-130269-1

Client Sample ID: GP-39 (2-4)

Lab Sample ID: 500-130269-10

Date Collected: 06/27/17 10:30

Matrix: Solid

Date Received: 06/28/17 10:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	441458	06/29/17 12:21	BAA	TAL NSH

Client Sample ID: GP-39 (2-4)

Lab Sample ID: 500-130269-10

Date Collected: 06/27/17 10:30

Matrix: Solid

Date Received: 06/28/17 10:10

Percent Solids: 75.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	WI GRO			441726	06/30/17 08:52	CU	TAL NSH
Total/NA	Analysis	WDNR		10	442472	07/03/17 21:02	A1B	TAL NSH

Client Sample ID: GP-39 (6-8)

Lab Sample ID: 500-130269-11

Date Collected: 06/27/17 10:35

Matrix: Solid

Date Received: 06/28/17 10:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	441458	06/29/17 12:21	BAA	TAL NSH

Client Sample ID: GP-39 (6-8)

Lab Sample ID: 500-130269-11

Date Collected: 06/27/17 10:35

Matrix: Solid

Date Received: 06/28/17 10:10

Percent Solids: 88.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	WI GRO			441726	06/30/17 08:52	CU	TAL NSH
Total/NA	Analysis	WDNR		10	442472	07/03/17 21:29	A1B	TAL NSH

Client Sample ID: GP-40 (2-4)

Lab Sample ID: 500-130269-12

Date Collected: 06/27/17 11:10

Matrix: Solid

Date Received: 06/28/17 10:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	441458	06/29/17 12:21	BAA	TAL NSH

Client Sample ID: GP-40 (2-4)

Lab Sample ID: 500-130269-12

Date Collected: 06/27/17 11:10

Matrix: Solid

Date Received: 06/28/17 10:10

Percent Solids: 79.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	WI GRO			441726	06/30/17 08:52	CU	TAL NSH
Total/NA	Analysis	WDNR		1	442472	07/03/17 21:56	A1B	TAL NSH

TestAmerica Chicago

Lab Chronicle

Client: TRC Environmental Corporation.
Project/Site: Multiple Sites along STH 11 - 275788

TestAmerica Job ID: 500-130269-1

Client Sample ID: GP-41 (2-4)

Lab Sample ID: 500-130269-13

Date Collected: 06/27/17 11:15

Matrix: Solid

Date Received: 06/28/17 10:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	441458	06/29/17 12:21	BAA	TAL NSH

Client Sample ID: GP-41 (2-4)

Lab Sample ID: 500-130269-13

Date Collected: 06/27/17 11:15

Matrix: Solid

Date Received: 06/28/17 10:10

Percent Solids: 82.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	WI GRO			441726	06/30/17 08:52	CU	TAL NSH
Total/NA	Analysis	WDNR		1	442472	07/03/17 22:22	A1B	TAL NSH

Client Sample ID: GP-42 (2-4)

Lab Sample ID: 500-130269-14

Date Collected: 06/27/17 11:45

Matrix: Solid

Date Received: 06/28/17 10:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	391194	06/28/17 14:04	LWN	TAL CHI

Client Sample ID: GP-42 (2-4)

Lab Sample ID: 500-130269-14

Date Collected: 06/27/17 11:45

Matrix: Solid

Date Received: 06/28/17 10:10

Percent Solids: 86.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	WI GRO			441726	06/30/17 08:52	CU	TAL NSH
Total/NA	Analysis	WDNR		1	442472	07/04/17 00:09	A1B	TAL NSH
Total/NA	Prep	3050B			391928	07/05/17 15:05	AAP	TAL CHI
Total/NA	Analysis	6010B		1	392169	07/06/17 13:13	KML	TAL CHI

Client Sample ID: GP-42 (6-8)

Lab Sample ID: 500-130269-15

Date Collected: 06/27/17 11:50

Matrix: Solid

Date Received: 06/28/17 10:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	391194	06/28/17 14:04	LWN	TAL CHI

Client Sample ID: GP-42 (6-8)

Lab Sample ID: 500-130269-15

Date Collected: 06/27/17 11:50

Matrix: Solid

Date Received: 06/28/17 10:10

Percent Solids: 85.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	WI GRO			441726	06/30/17 08:52	CU	TAL NSH
Total/NA	Analysis	WDNR		10	442472	07/04/17 00:36	A1B	TAL NSH
Total/NA	Prep	3050B			391928	07/05/17 15:05	AAP	TAL CHI

TestAmerica Chicago

Lab Chronicle

Client: TRC Environmental Corporation.
Project/Site: Multiple Sites along STH 11 - 275788

TestAmerica Job ID: 500-130269-1

Client Sample ID: GP-42 (6-8)

Lab Sample ID: 500-130269-15

Date Collected: 06/27/17 11:50

Matrix: Solid

Date Received: 06/28/17 10:10

Percent Solids: 85.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	6010B		1	392169	07/06/17 13:17	KML	TAL CHI

Client Sample ID: GP-43 (2-4)

Lab Sample ID: 500-130269-16

Date Collected: 06/27/17 12:20

Matrix: Solid

Date Received: 06/28/17 10:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	391194	06/28/17 14:04	LWN	TAL CHI

Client Sample ID: GP-43 (2-4)

Lab Sample ID: 500-130269-16

Date Collected: 06/27/17 12:20

Matrix: Solid

Date Received: 06/28/17 10:10

Percent Solids: 84.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	WI GRO			441726	06/30/17 08:52	CU	TAL NSH
Total/NA	Analysis	WDNR		10	442472	07/04/17 01:03	A1B	TAL NSH
Total/NA	Prep	3050B			391928	07/05/17 15:05	AAP	TAL CHI
Total/NA	Analysis	6010B		1	392169	07/06/17 13:32	KML	TAL CHI

Client Sample ID: GP-43 (6-8)

Lab Sample ID: 500-130269-17

Date Collected: 06/27/17 12:25

Matrix: Solid

Date Received: 06/28/17 10:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	391194	06/28/17 14:04	LWN	TAL CHI

Client Sample ID: GP-43 (6-8)

Lab Sample ID: 500-130269-17

Date Collected: 06/27/17 12:25

Matrix: Solid

Date Received: 06/28/17 10:10

Percent Solids: 91.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	WI GRO			441726	06/30/17 08:52	CU	TAL NSH
Total/NA	Analysis	WDNR		1	442472	07/04/17 01:30	A1B	TAL NSH
Total/NA	Prep	3050B			391928	07/05/17 15:05	AAP	TAL CHI
Total/NA	Analysis	6010B		1	392169	07/06/17 13:35	KML	TAL CHI

Client Sample ID: GP-44 (2-4)

Lab Sample ID: 500-130269-18

Date Collected: 06/27/17 12:45

Matrix: Solid

Date Received: 06/28/17 10:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	391194	06/28/17 14:04	LWN	TAL CHI

TestAmerica Chicago

Lab Chronicle

Client: TRC Environmental Corporation.
 Project/Site: Multiple Sites along STH 11 - 275788

TestAmerica Job ID: 500-130269-1

Client Sample ID: GP-44 (2-4)

Lab Sample ID: 500-130269-18

Date Collected: 06/27/17 12:45

Matrix: Solid

Date Received: 06/28/17 10:10

Percent Solids: 86.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	WI GRO			441726	06/30/17 08:52	CU	TAL NSH
Total/NA	Analysis	WDNR		1	442472	07/04/17 01:57	A1B	TAL NSH
Total/NA	Prep	3050B			391928	07/05/17 15:05	AAP	TAL CHI
Total/NA	Analysis	6010B		1	392169	07/06/17 13:39	KML	TAL CHI

Client Sample ID: GP-44 (6-8)

Lab Sample ID: 500-130269-19

Date Collected: 06/27/17 12:50

Matrix: Solid

Date Received: 06/28/17 10:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	391194	06/28/17 14:04	LWN	TAL CHI

Client Sample ID: GP-44 (6-8)

Lab Sample ID: 500-130269-19

Date Collected: 06/27/17 12:50

Matrix: Solid

Date Received: 06/28/17 10:10

Percent Solids: 83.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	WI GRO			441726	06/30/17 08:52	CU	TAL NSH
Total/NA	Analysis	WDNR		1	442472	07/04/17 02:24	A1B	TAL NSH
Total/NA	Prep	3050B			391928	07/05/17 15:05	AAP	TAL CHI
Total/NA	Analysis	6010B		1	392169	07/06/17 13:43	KML	TAL CHI

Client Sample ID: GP-45 (2-4)

Lab Sample ID: 500-130269-20

Date Collected: 06/27/17 13:20

Matrix: Solid

Date Received: 06/28/17 10:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	391194	06/28/17 14:04	LWN	TAL CHI

Client Sample ID: GP-45 (2-4)

Lab Sample ID: 500-130269-20

Date Collected: 06/27/17 13:20

Matrix: Solid

Date Received: 06/28/17 10:10

Percent Solids: 88.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	WI GRO			441726	06/30/17 08:52	CU	TAL NSH
Total/NA	Analysis	WDNR		1	442472	07/04/17 02:51	A1B	TAL NSH
Total/NA	Prep	3050B			391928	07/05/17 15:05	AAP	TAL CHI
Total/NA	Analysis	6010B		1	392169	07/06/17 13:47	KML	TAL CHI

Lab Chronicle

Client: TRC Environmental Corporation.
Project/Site: Multiple Sites along STH 11 - 275788

TestAmerica Job ID: 500-130269-1

Client Sample ID: GP-45 (6-8)

Lab Sample ID: 500-130269-21

Date Collected: 06/27/17 13:25

Matrix: Solid

Date Received: 06/28/17 10:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	391194	06/28/17 14:04	LWN	TAL CHI

Client Sample ID: GP-45 (6-8)

Lab Sample ID: 500-130269-21

Date Collected: 06/27/17 13:25

Matrix: Solid

Date Received: 06/28/17 10:10

Percent Solids: 88.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	WI GRO			441726	06/30/17 08:52	CU	TAL NSH
Total/NA	Analysis	WDNR		1	442472	07/04/17 03:17	A1B	TAL NSH
Total/NA	Prep	3050B			391928	07/05/17 15:05	AAP	TAL CHI
Total/NA	Analysis	6010B		1	392169	07/06/17 13:50	KML	TAL CHI

Client Sample ID: GP-47 (2-4)

Lab Sample ID: 500-130269-24

Date Collected: 06/27/17 14:05

Matrix: Solid

Date Received: 06/28/17 10:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	441458	06/29/17 12:21	BAA	TAL NSH

Client Sample ID: GP-47 (2-4)

Lab Sample ID: 500-130269-24

Date Collected: 06/27/17 14:05

Matrix: Solid

Date Received: 06/28/17 10:10

Percent Solids: 92.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	WI GRO			441726	06/30/17 08:52	CU	TAL NSH
Total/NA	Analysis	WDNR		1	442472	07/04/17 03:44	A1B	TAL NSH

Client Sample ID: GP-47 (6-8)

Lab Sample ID: 500-130269-25

Date Collected: 06/27/17 14:10

Matrix: Solid

Date Received: 06/28/17 10:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	441458	06/29/17 12:21	BAA	TAL NSH

Client Sample ID: GP-47 (6-8)

Lab Sample ID: 500-130269-25

Date Collected: 06/27/17 14:10

Matrix: Solid

Date Received: 06/28/17 10:10

Percent Solids: 81.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	WI GRO			441726	06/30/17 08:52	CU	TAL NSH
Total/NA	Analysis	WDNR		1	442472	07/04/17 04:11	A1B	TAL NSH

TestAmerica Chicago

Lab Chronicle

Client: TRC Environmental Corporation.
Project/Site: Multiple Sites along STH 11 - 275788

TestAmerica Job ID: 500-130269-1

Client Sample ID: GP-48 (2-4)

Lab Sample ID: 500-130269-26

Date Collected: 06/27/17 14:25

Matrix: Solid

Date Received: 06/28/17 10:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	441458	06/29/17 12:21	BAA	TAL NSH

Client Sample ID: GP-48 (2-4)

Lab Sample ID: 500-130269-26

Date Collected: 06/27/17 14:25

Matrix: Solid

Date Received: 06/28/17 10:10

Percent Solids: 79.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	WI GRO			441726	06/30/17 08:52	CU	TAL NSH
Total/NA	Analysis	WDNR		1	442527	07/04/17 12:03	A1B	TAL NSH

Client Sample ID: GP-48 (6-8)

Lab Sample ID: 500-130269-27

Date Collected: 06/27/17 14:30

Matrix: Solid

Date Received: 06/28/17 10:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	441458	06/29/17 12:21	BAA	TAL NSH

Client Sample ID: GP-48 (6-8)

Lab Sample ID: 500-130269-27

Date Collected: 06/27/17 14:30

Matrix: Solid

Date Received: 06/28/17 10:10

Percent Solids: 80.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	WI GRO			441726	06/30/17 08:52	CU	TAL NSH
Total/NA	Analysis	WDNR		1	442527	07/04/17 12:30	A1B	TAL NSH

Client Sample ID: GP-49 (2-4)

Lab Sample ID: 500-130269-28

Date Collected: 06/27/17 14:45

Matrix: Solid

Date Received: 06/28/17 10:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	441458	06/29/17 12:21	BAA	TAL NSH

Client Sample ID: GP-49 (2-4)

Lab Sample ID: 500-130269-28

Date Collected: 06/27/17 14:45

Matrix: Solid

Date Received: 06/28/17 10:10

Percent Solids: 90.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	WI GRO			441726	06/30/17 08:52	CU	TAL NSH
Total/NA	Analysis	WDNR		1	442527	07/04/17 12:57	A1B	TAL NSH

TestAmerica Chicago

Lab Chronicle

Client: TRC Environmental Corporation.
Project/Site: Multiple Sites along STH 11 - 275788

TestAmerica Job ID: 500-130269-1

Client Sample ID: GP-49 (6-8)

Lab Sample ID: 500-130269-29

Date Collected: 06/27/17 14:50

Matrix: Solid

Date Received: 06/28/17 10:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	441458	06/29/17 12:21	BAA	TAL NSH

Client Sample ID: GP-49 (6-8)

Lab Sample ID: 500-130269-29

Date Collected: 06/27/17 14:50

Matrix: Solid

Date Received: 06/28/17 10:10

Percent Solids: 93.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	WI GRO			441726	06/30/17 08:52	CU	TAL NSH
Total/NA	Analysis	WDNR		1	442527	07/04/17 13:24	A1B	TAL NSH

Client Sample ID: Trip Blank

Lab Sample ID: 500-130269-30

Date Collected: 06/27/17 00:00

Matrix: Solid

Date Received: 06/28/17 10:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	391194	06/28/17 14:18	LWN	TAL CHI

Client Sample ID: Trip Blank

Lab Sample ID: 500-130269-30

Date Collected: 06/27/17 00:00

Matrix: Solid

Date Received: 06/28/17 10:10

Percent Solids: 100.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			391290	06/27/17 00:00	WRE	TAL CHI
Total/NA	Analysis	8260B		50	392365	07/10/17 16:46	PMF	TAL CHI

Laboratory References:

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

TAL NSH = TestAmerica Nashville, 2960 Foster Creighton Drive, Nashville, TN 37204, TEL (615)726-0177

Accreditation/Certification Summary

Client: TRC Environmental Corporation.
Project/Site: Multiple Sites along STH 11 - 275788

TestAmerica Job ID: 500-130269-1

Laboratory: TestAmerica Chicago

The accreditations/certifications listed below are applicable to this report.

Authority	Program	EPA Region	Identification Number	Expiration Date
Wisconsin	State Program	5	999580010	08-31-17 *

Laboratory: TestAmerica Nashville

The accreditations/certifications listed below are applicable to this report.

Authority	Program	EPA Region	Identification Number	Expiration Date
Wisconsin	State Program	5	998020430	08-31-17

* Accreditation/Certification renewal pending - accreditation/certification considered valid.



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: _____
 Address: _____
 Phone: _____
 Fax: _____
 E-Mail: _____

Bill To (optional)
 Contact: _____
 Company: _____
 Address: _____
 Address: _____
 Phone: _____
 Fax: _____
 PO#/Reference# _____

Chain of Custody Record

Lab Job #: 580-130269
 Chain of Custody Number: _____
 Page 1 of 3
 Temperature °C of Cooler: 5.8 → 5.9, 3.6 → 3.7

Client		Client Project #		Preservative		Parameter													
TRC		275788		1 1															
Project Name		Lab Project #		# of Containers		Matrix													
Multiple sites along STH 11				VOCs		Pesticides													
Project Location/State		Lab Project #		Date		Time													
Racine, WI																			
Sampler		Lab PM																	
M. Kairles																			
Lab ID	MS/MSD	Sample ID		Sampling		# of Containers		Matrix											
1		GP-35 (4-6)		6/27	830	2	S	X											
2		GP-35 (8-10)			840			XX											
3		GP-35 (12-14)			845			XX											
4		GP-36 (2-4)			925				XX										
5		GP-36 (6-8)			930				XX										
6		GP-37 (2-4)			940				XX										
7		GP-37 (6-8)			945				XX										
8		GP-38 (2-4)			1005				XX										
9		GP-38 (6-8)			1010				XX										
10		GP-39 (2-4)			1030				XX										



500-130269 COC

Preservative Key
 Cool to 4°
 4, Cool to 4°
 , Cool to 4°
 , Cool to 4°
 /Zn, Cool to 4°
 D4
 Cool to 4°
 8. None
 9. Other

Turnaround Time Required (Business Days)
 ___ 1 Day ___ 2 Days ___ 5 Days ___ 7 Days 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 <i>MK</i>	Company TRC	Date 6/27/17	Time 1600	Received By <i>Shel Sanchez</i>	Company TRC	Date 6/28/17	Time 1010	Lab Courier
Relinquished By	Company	Date	Time	Received By	Company	Date	Time	Shipped EX Priority
Relinquished By	Company	Date	Time	Received By	Company	Date	Time	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: _____
 Address: _____
 Address: _____
 Phone: _____
 Fax: _____
 E-Mail: _____

Bill To (optional)
 Contact: _____
 Company: _____
 Address: _____
 Address: _____
 Phone: _____
 Fax: _____
 PO#/Reference# _____

Chain of Custody Record

Lab Job #: 500-130269

Chain of Custody Number: _____

Page 2 of 3

Temperature °C of Cooler: 5.8-7.59, 3.6-7.7

Client		Client Project #		Preservative		Parameter		Matrix		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		Lab Project #		Matrix		Matrix		Matrix		
Project Location/State		Lab Project #		Matrix		Matrix		Matrix		
TRC		275788		1		8				Comments
Multiple sites along ITH II										
Ravine, Ill										
M. Karlas										Comments
Lab ID	MS/MSD	Sample ID	Date	Time	# of Containers	Matrix	Matrix	Matrix	Matrix	
11		GP-39 (6-8)	6/27	1035	2	S	X			
12		GP-40 (2-4)		1110			X			
13		GP-41 (2-4)		1115			X			
14		GP-42 (2-4)		1145	3		X	X		
15		GP-42 (6-8)		1150			X	X		
16		GP-43 (2-4)		1220			X	X		
17		GP-43 (6-8)		1225			X	X		
18		GP-44 (2-4)		1245			X	X		
19		GP-44 (6-8)		1250			X	X		
20		GP-45 (2-4)		1320			X	X		

Turnaround Time Required (Business Days)
 ___ 1 Day ___ 2 Days ___ 5 Days ___ 7 Days 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>MK</u>	Company <u>TRC</u>	Date <u>6/27/17</u>	Time <u>1600</u>	Received By <u>Devin Samuels</u>	Company <u>TRC</u>	Date <u>06/28/17</u>	Time <u>1010</u>
Relinquished By	Company	Date	Time	Received By	Company	Date	Time
Relinquished By	Company	Date	Time	Received By	Company	Date	Time

Lab Courier: _____
 Shipped: EX Priority
 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: _____
 Address: _____
 Phone: _____
 Fax: _____
 E-Mail: _____

Bill To (optional)
 Contact: _____
 Company: _____
 Address: _____
 Address: _____
 Phone: _____
 Fax: _____
 PO#/Reference# _____

Chain of Custody Record

Lab Job #: 500-130269

Chain of Custody Number: _____

Page 3 of 3

Temperature °C of Cooler: 58=5.9, 3.6=3.7

Lab ID	MS/MSD	Sample ID	Sampling		# of Containers	Matrix	Preservative	Parameter	Preservative Key	Comments
			Date	Time						
21		GP-45 (6-8)	6/27	1325	3	S	1		1. HCL, Cool to 4°	
22		GP-46 (2-4)		1340	2		8		2. H2SO4, Cool to 4°	HOLD
23		GP-46 (6-8)		1345					3. HNO3, Cool to 4°	HOLD
24		GP-47 (2-4)		1405					4. NaOH, Cool to 4°	
25		GP-47 (6-8)		1410					5. NaOH/Zn, Cool to 4°	
26		GP-48 (2-4)		1425					6. NaHSO4	
27		GP-48 (6-8)		1430					7. Cool to 4°	
28		GP-49 (2-4)		1445					8. None	
29		GP-49 (6-8)		1450					9. Other	
30		TRIP BLANK								

Turnaround Time Required (Business Days)
 ___ 1 Day ___ 2 Days ___ 5 Days ___ 7 Days 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 <i>[Signature]</i>	Company TRC	Date 6/27/17	Time 1800	Received By <i>[Signature]</i>	Company TRC	Date 06/28/17	Time 1010
Relinquished By	Company	Date	Time	Received By	Company	Date	Time
Relinquished By	Company	Date	Time	Received By	Company	Date	Time

Lab Courier: _____
 Shipped: EX Priority
 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
Hold GP-46 samples

Lab Comments:

MIRANDA KAHIRILAS
TRC ENVIRONMENTAL
150 N PATRICK BLVD, SUITE 180

SHIP DATE: 27 JUN 17
ACTWGT: 25.00 LB
CAD: 110326482/INET3850

BROOKFIELD, WI 53045
UNITED STATES US

BILL RECIPIENT

TO **ATTN: SAMPLE RECEIVING
TEST AMERICA - CHICAGO
2417 BOND ST**

UNIVERSITY PARK IL 60484

(708) 534-5200
INV
PO

REF

DEPT



FedEx
Express



JT11172461ur

546.J1/A502J53C1

ORIGIN ID: RRLA (262) 901-2153
MIRANDA KAHIRILAS
TRC ENVIRONMENTAL
150 N PATRICK BLVD, SUITE 180

SHIP DATE: 27 JUN 17
ACTWGT: 25.00 LB
CAD: 110326482/INET3850

BROOKFIELD, WI 53045,
UNITED STATES US

BILL RECIPIENT

TO **ATTN: SAMPLE RECEIVING
TEST AMERICA - CHICAGO
2417 BOND ST**

UNIVERSITY PARK IL 60484

(708) 534-5200
INV
PO

REF

DEPT



FedEx
Express



JT11172461ur

546.J1/A502J53C1

1 of 2

**WED - 28 JUN 10:30A
PRIORITY OVERNIGHT**

TRK#
0201 **7795 0701 1605**
MASTER

79 JOTA

IL-US **60484
ORD**



2 of 2

**WED - 28 JUN 10:30A
PRIORITY OVERNIGHT**

MPS#
0263 **7795 0701 1763**
Mstr# 7795 0701 1605

0201

79 JOTA

IL-US **60484
ORD**



500-130269 Waybill



COOLER RECEIPT FORM

Cooler Received/Opened On 06-29-2017 @ 09:50

Time Samples Removed From Cooler _____ Time Samples Placed In Storage _____ (2 Hour Window)

1. Tracking # 3770 (last 4 digits, FedEx) Courier: FedEx
IR Gun ID 14740456 pH Strip Lot _____ Chlorine Strip Lot _____

2. Temperature of rep. sample or temp blank when opened: 2.3 Degrees Celsius

3. If Item #2 temperature is 0°C or less, was the representative sample or temp blank frozen? YES NO...NA

4. Were custody seals on outside of cooler? YES...NO...NA
If yes, how many and where: 1 Front

5. Were the seals intact, signed, and dated correctly? YES...NO...NA

6. Were custody papers inside cooler? YES...NO...NA

I certify that I opened the cooler and answered questions 1-6 (initial) [Signature]

7. Were custody seals on containers: YES NO and Intact YES...NO...NA

Were these signed and dated correctly? YES...NO...NA

8. Packing mat'l used? Bubblewrap Plastic bag Peanuts Vermiculite Foam Insert Paper Other None

9. Cooling process: Ice Ice-pack Ice (direct contact) Dry ice Other None

10. Did all containers arrive in good condition (unbroken)? YES...NO...NA

11. Were all container labels complete (#, date, signed, pres., etc)? YES...NO...NA

12. Did all container labels and tags agree with custody papers? YES...NO...NA

13a. Were VOA vials received? YES...NO...NA

b. Was there any observable headspace present in any VOA vial? YES...NO...NA

14. Was there a Trip Blank in this cooler? YES...NO...NA If multiple coolers, sequence # _____

I certify that I unloaded the cooler and answered questions 7-14 (initial) [Signature]

15a. On pres'd bottles, did pH test strips suggest preservation reached the correct pH level? YES...NO...NA

b. Did the bottle labels indicate that the correct preservatives were used YES...NO...NA

16. Was residual chlorine present? YES...NO...NA

I certify that I checked for chlorine and pH as per SOP and answered questions 15-16 (initial) [Signature]

17. Were custody papers properly filled out (ink, signed, etc)? YES...NO...NA

18. Did you sign the custody papers in the appropriate place? YES...NO...NA

19. Were correct containers used for the analysis requested? YES...NO...NA

20. Was sufficient amount of sample sent in each container? YES...NO...NA

I certify that I entered this project into LIMS and answered questions 17-20 (initial) [Signature]

I certify that I attached a label with the unique LIMS number to each container (initial) [Signature]

21. Were there Non-Conformance issues at login? YES...NO Was a NCM generated? YES...NO...# ES

TestAmerica Chicago

2417 Bond Street
University Park, IL 60484
Phone (708) 534-5200 Fax (708) 534-5211

Chain of Custody Record

500-130269



Job No: 00-89981.1

Page: 1 of 3

Job #: 500-130269-1

Client Information (Sub Contract Lab)

Client Contact: **Samper** Lab P/N: **Fredrick, Sandie J**

Shipping/Receiving: **Phone:** E-Mail: **sandie.fredrick@testamericainc.com**

Company: **TestAmerica Laboratories, Inc** State of Origin: **Wisconsin**

Address: **2960 Foster Creighton Drive,** Accreditation Required (See note): **State Program - Wisconsin**

City: **Nashville** TAT Requested (day's): **6/29/2017**

State, Zip: **TN, 37204**

Phone: **615-726-0177(Tel) 615-726-3404(Fax)** PO #:

Email: **WO #:**

Project Name: **WSDOT** Project #: **50010540**

Site: **SSOW#:**

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix (Water, Solid, Over-sat, etc.)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	Moisture/ Percent Moisture/Solids		WL_GROWIGRO_P_FM PVOC+NAP	Total Number of containers	Special Instructions/Note:
							Preservation Code:	BI=Issue, AA=AI			
GP-36 (2-4) (500-130269-4)	6/27/17		Central	Solid	X	X				2	
GP-36 (6-8) (500-130269-5)	6/27/17		Central	Solid	X	X				2	
GP-37 (2-4) (500-130269-6)	6/27/17		Central	Solid	X	X				2	
GP-37 (6-8) (500-130269-7)	6/27/17		Central	Solid	X	X				2	
GP-38 (2-4) (500-130269-8)	6/27/17		Central	Solid	X	X				2	
GP-38 (6-8) (500-130269-9)	6/27/17		Central	Solid	X	X				2	
GP-39 (2-4) (500-130269-10)	6/27/17		Central	Solid	X	X				2	
GP-39 (6-8) (500-130269-11)	6/27/17		Central	Solid	X	X				2	
GP-40 (2-4) (500-130269-12)	6/27/17		Central	Solid	X	X				2	

Note: Since laboratory accreditation is subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/matrix being analyzed, the samples must be shipped back to the TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to TestAmerica Laboratories, Inc. attention immediately. If all requested accreditation are current to date, return the signed Chain of Custody attesting to said compliance to TestAmerica Laboratories, Inc.

Possible Hazard Identification

Unconfirmed

Deliverable Requested: I, II, III, IV, Other (specify) **Primary Deliverable Rank: 2**

Special Instructions/QC Requirements:

Empty Kit Relinquished by: **Date:** **Time:** **Method of Shipment:**

Relinquished by: **Date/Time:** **Company:** **Received by:** **Date/Time:** **Company:**

Relinquished by: **Date/Time:** **Company:** **Received by:** **Date/Time:** **Company:**

Relinquished by: **Date/Time:** **Company:** **Received by:** **Date/Time:** **Company:**

Custody Seals Intact: **Custody Seal No.:** **Cooler Temperature(s) °C and Other Remarks:**

Δ Yes Δ No **2, 3**

TestAmerica Chicago

2417 Bond Street
University Park, IL 60484
Phone (708) 534-5200 Fax (708) 534-5211

Chain of Custody Record



THE LEADER IN ENVIRONMENTAL TESTING

Client Information (Sub Contract Lab)		Sampler:	Lab P/N:	Carrier Tracking No(s):	COC No:						
Client Contact:		Phone:	Fredrick, Sandie J		500-899812						
Shipping/Receiving:		E-Mail: sandie.fredrick@testamericainc.com		State of Origin:	Page: 2 of 3						
Company: TestAmerica Laboratories, Inc		Accreditations Required (See note): State Program - Wisconsin		Page:	Page 2 of 3						
Address: 2960 Foster Creighton Drive,		Due Date Requested:	Analysis Requested								
City: Nashville		6/29/2017	Loc: 500 130269								
State, Zip: TN, 37204		TAT Requested (days):									
Phone: 615-726-0177(Tel) 615-726-3404(Fax)		PO #:									
Email: W/C #:		Project #:									
Project Name: WISDOT		50010540									
Site: SSOV#:											
Sample Identification - Client ID (Lab ID)		Sample Date	Sample Time	Sample Type (G=Comp, G=Grab)	Matrix (M=Water, S=Soil, O=Other)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	Moisture/ Percent Moisture/Solids	WI_GRO/WIGRO_P_FM PVOC+NAP	Total Number of containers	Special Instructions/Note:
GP-41 (2-4) (500-130269-13)	6/27/17	Central		Solid		X	X		2		
GP-42 (2-4) (500-130269-14)	6/27/17	Central		Solid		X	X		1		
GP-42 (6-8) (500-130269-15)	6/27/17	Central		Solid		X	X		1		
GP-43 (2-4) (500-130269-16)	6/27/17	Central		Solid		X	X		1		
GP-43 (6-8) (500-130269-17)	6/27/17	Central		Solid		X	X		1		
GP-44 (2-4) (500-130269-18)	6/27/17	Central		Solid		X	X		1		
GP-44 (6-8) (500-130269-19)	6/27/17	Central		Solid		X	X		1		
GP-45 (2-4) (500-130269-20)	6/27/17	Central		Solid		X	X		1		
GP-45 (6-8) (500-130269-21)	6/27/17	Central		Solid		X	X		1		

Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliances upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. |

Possible Hazard Identification

Unconfirmed Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2

Empty Kit Relinquished by: Date: Time: Method of Shipment:

Relinquished by: *[Signature]* Date/Time: *06/28/17* @ *1600* Company: *TA* Received by: *[Signature]* Date/Time: *6/29/17* @ *9:50* Company:

Relinquished by: Date/Time: Company: Received by: Date/Time: Company:

Custody Seals Intact: Custody Seal No.: Cooler Temperature(s) °C and Other Remarks: *2x3*

Return To Client Dispose By Lab Archive For Months

TestAmerica Chicago

2417 Bond Street
University Park, IL 60484
Phone (708) 534-5200 Fax (708) 534-5211

Chain of Custody Record



THE LEADER IN ENVIRONMENTAL TESTING

Client Information (Sub Contract Lab)		Sampler:	Lab PM:	COC No:							
Client Contact:		Phone:	Frederick, Sandie J	500-89921-3							
Shipping/Receiving:		E-Mail:	sandie.frederick@testamericainc.com	Page 3 of 3							
Company:		Accreditations Required (See note):		Job #:							
TaskAmerica Laboratories, Inc		State Program - Wisconsin		500-130269-1							
Address:		Due Date Requested:	Analysis Requested								
2960 Foster Creighton Drive,		6/29/2017	Loc: 500 130269								
City:		TAT Requested (days):									
Nashville											
State Zip:		PO #:									
TN, 37204		WO #:									
Phone:		Project #:									
615-726-0177(Tel) 615-726-3404(Fax)		50010540									
Email:		SSOW#:									
Project Name:											
WISDOT											
Site:											
Sample Identification - Client ID (Lab ID)		Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (Wetwater, Specific, Commercial)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	Moisture/ Percent Moisture/Solids	WI_GRO/WIGRO_P_FM PVOC+NAP	Total Number of containers	Special Instructions/Note:
GP-46 (2-4) (500-130269-22)	6/27/17	Central		Solid		X		X	2		
GP-46 (6-8) (500-130269-23)	6/27/17	Central		Solid		X		X	2		
GP-47 (2-4) (500-130269-24)	6/27/17	Central		Solid		X		X	2		
GP-47 (6-8) (500-130269-25)	6/27/17	Central		Solid		X		X	2		
GP-48 (2-4) (500-130269-26)	6/27/17	Central		Solid		X		X	2		
GP-48 (6-8) (500-130269-27)	6/27/17	Central		Solid		X		X	2		
GP-49 (2-4) (500-130269-28)	6/27/17	Central		Solid		X		X	2		
GP-49 (6-8) (500-130269-29)	6/27/17	Central		Solid		X		X	2		

Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. 1

Possible Hazard Identification

Unconfirmed Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2

Empty Kit Relinquished by: Date: Time: Method of Shipment:

Relinquished by: Date/Time: Company: Received by: Date/Time: Company:

Relinquished by: Date/Time: Company: Received by: Date/Time: Company:

Custody Seals Intact: Custody Seal No.: Cooler Temperature(s) °C and Other Remarks:

Login Sample Receipt Checklist

Client: TRC Environmental Corporation.

Job Number: 500-130269-1

Login Number: 130269

List Source: TestAmerica Chicago

List Number: 1

Creator: Sanchez, Ariel M

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	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	3.7, 5.9
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 (excluding tests with immediate HTs)	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").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: TRC Environmental Corporation.

Job Number: 500-130269-1

Login Number: 130269

List Number: 2

Creator: Stewart, Eric S

List Source: TestAmerica Nashville

List Creation: 06/29/17 11:48 AM

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	N/A	
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	
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 (excluding tests with immediate HTs)	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.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



Login Sample Receipt Checklist

Client: TRC Environmental Corporation.

Job Number: 500-130269-1

Login Number: 130269
List Number: 3
Creator: Stewart, Eric S

List Source: TestAmerica Nashville
List Creation: 06/29/17 11:54 AM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
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	
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 (excluding tests with immediate HTs)	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.	N/A	
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	



Detail Contract Activity Report

January 01, 2020 to December 14, 2020

Specific Contract(s) : '3063201859'

All Ticket Types
History and Waiting
* - Confirmed Qty Applied to Billing

All Facilities

3063201859

Ticket Date	Facility & Ticket Number	Customer	Truck	Material	Billing Quantity
03/23/2020	I 01 1082647	333441 - ZIGNEGO COMPANY, INC.	AAS98	SW-CONT SOIL-ALT D	22.98 TN
03/23/2020	I 01 1082657	333441 - ZIGNEGO COMPANY, INC.	AAS98	SW-CONT SOIL-ALT D	20.71 TN
03/23/2020	I 01 1082671	333441 - ZIGNEGO COMPANY, INC.	AAS98	SW-CONT SOIL-ALT D	11.88 TN
03/24/2020	I 01 1082695	333441 - ZIGNEGO COMPANY, INC.	AAS98	SW-CONT SOIL-ALT D	17.63 TN
03/24/2020	I 01 1082710	333441 - ZIGNEGO COMPANY, INC.	AAS98	SW-CONT SOIL-ALT D	12.52 TN
03/24/2020	I 01 1082717	333441 - ZIGNEGO COMPANY, INC.	AAS98	SW-CONT SOIL-ALT D	19.75 TN
03/24/2020	I 01 1082733	333441 - ZIGNEGO COMPANY, INC.	RDP25	SW-CONT SOIL-ALT D	17.36 TN
03/24/2020	I 01 1082737	333441 - ZIGNEGO COMPANY, INC.	AAS98	SW-CONT SOIL-ALT D	17.70 TN
03/24/2020	I 01 1082742	333441 - ZIGNEGO COMPANY, INC.	RDP25	SW-CONT SOIL-ALT D	15.89 TN
03/25/2020	I 01 1082791	333441 - ZIGNEGO COMPANY, INC.	JMT5	SW-CONT SOIL-ALT D	19.11 TN
03/25/2020	I 01 1082800	333441 - ZIGNEGO COMPANY, INC.	JMT5	SW-CONT SOIL-ALT D	15.52 TN
03/25/2020	I 01 1082810	333441 - ZIGNEGO COMPANY, INC.	JMT5	SW-CONT SOIL-ALT D	19.94 TN
03/25/2020	I 01 1082822	333441 - ZIGNEGO COMPANY, INC.	JMT5	SW-CONT SOIL-ALT D	20.06 TN
03/25/2020	I 01 1082839	333441 - ZIGNEGO COMPANY, INC.	JMT5	SW-CONT SOIL-ALT D	19.79 TN
03/25/2020	I 01 1082866	333441 - ZIGNEGO COMPANY, INC.	JMT5	SW-CONT SOIL-ALT D	18.31 TN
04/09/2020	I 01 1083849	333441 - ZIGNEGO COMPANY, INC.	ZIGT72	SW-CONT SOIL-ALT D	19.67 TN
04/09/2020	I 01 1083851	333441 - ZIGNEGO COMPANY, INC.	ZIGT91	SW-CONT SOIL-ALT D	21.05 TN
04/09/2020	I 01 1083854	333441 - ZIGNEGO COMPANY, INC.	ZIGT80	SW-CONT SOIL-ALT D	18.17 TN
04/09/2020	I 01 1083856	333441 - ZIGNEGO COMPANY, INC.	ZIGT71	SW-CONT SOIL-ALT D	18.34 TN
04/09/2020	I 01 1083861	333441 - ZIGNEGO COMPANY, INC.	ZIGT73	SW-CONT SOIL-ALT D	19.07 TN
04/09/2020	I 01 1083862	333441 - ZIGNEGO COMPANY, INC.	ZIGT91	SW-CONT SOIL-ALT D	21.95 TN
04/09/2020	I 01 1083864	333441 - ZIGNEGO COMPANY, INC.	ZIGT72	SW-CONT SOIL-ALT D	18.61 TN
04/09/2020	I 01 1083865	333441 - ZIGNEGO COMPANY, INC.	ZIGT80	SW-CONT SOIL-ALT D	17.97 TN
04/09/2020	I 01 1083866	333441 - ZIGNEGO COMPANY, INC.	ZIGT71	SW-CONT SOIL-ALT D	18.47 TN
04/09/2020	I 01 1083868	333441 - ZIGNEGO COMPANY, INC.	ZIGT92	SW-CONT SOIL-ALT D	21.94 TN
04/09/2020	I 01 1083869	333441 - ZIGNEGO COMPANY, INC.	ZIGT88	SW-CONT SOIL-ALT D	13.73 TN
04/09/2020	I 01 1083878	333441 - ZIGNEGO COMPANY, INC.	ZIGT72	SW-CONT SOIL-ALT D	19.06 TN
04/09/2020	I 01 1083880	333441 - ZIGNEGO COMPANY, INC.	ZIGT73	SW-CONT SOIL-ALT D	19.07 TN
04/09/2020	I 01 1083881	333441 - ZIGNEGO COMPANY, INC.	ZIGT80	SW-CONT SOIL-ALT D	19.14 TN
04/15/2020	I 01 1084181	333441 - ZIGNEGO COMPANY, INC.	ZIGT72	SW-CONT SOIL-ALT D	18.12 TN
04/15/2020	I 01 1084182	333441 - ZIGNEGO COMPANY, INC.	ZIGT79	SW-CONT SOIL-ALT D	21.06 TN
04/15/2020	I 01 1084184	333441 - ZIGNEGO COMPANY, INC.	ZIG90	SW-CONT SOIL-ALT D	19.03 TN
04/15/2020	I 01 1084185	333441 - ZIGNEGO COMPANY, INC.	ZIGT80	SW-CONT SOIL-ALT D	20.15 TN
04/15/2020	I 01 1084190	333441 - ZIGNEGO COMPANY, INC.	ZIGT71	SW-CONT SOIL-ALT D	18.86 TN
04/15/2020	I 01 1084195	333441 - ZIGNEGO COMPANY, INC.	ZIGT82	SW-CONT SOIL-ALT D	17.91 TN
04/15/2020	I 01 1084197	333441 - ZIGNEGO COMPANY, INC.	ZIGT88	SW-CONT SOIL-ALT D	19.85 TN
04/15/2020	I 01 1084199	333441 - ZIGNEGO COMPANY, INC.	ZIGT72	SW-CONT SOIL-ALT D	22.15 TN
04/15/2020	I 01 1084201	333441 - ZIGNEGO COMPANY, INC.	ZIGT70-03	SW-CONT SOIL-ALT D	21.22 TN

Detail Contract Activity Report

January 01, 2020 to December 14, 2020

Specific Contract(s) : '3063201859'

All Ticket Types
History and Waiting

All Facilities

* - Confirmed Qty Applied to Billing

04/15/2020	I	01	1084204	333441 - ZIGNEGO COMPANY, INC.	ZIGT79	SW-CONT SOIL-ALT D	19.78	TN
04/15/2020	I	01	1084208	333441 - ZIGNEGO COMPANY, INC.	ZIGT80	SW-CONT SOIL-ALT D	21.10	TN
04/15/2020	I	01	1084209	333441 - ZIGNEGO COMPANY, INC.	ZIG90	SW-CONT SOIL-ALT D	18.68	TN
04/15/2020	I	01	1084210	333441 - ZIGNEGO COMPANY, INC.	ZIGT71	SW-CONT SOIL-ALT D	17.90	TN
04/15/2020	I	01	1084213	333441 - ZIGNEGO COMPANY, INC.	ZIGT70-03	SW-CONT SOIL-ALT D	21.13	TN
04/15/2020	I	01	1084214	333441 - ZIGNEGO COMPANY, INC.	ZIGT78	SW-CONT SOIL-ALT D	19.91	TN
04/24/2020	I	01	1084925	333441 - ZIGNEGO COMPANY, INC.	ZIGT74	SW-CONT SOIL-ALT D	19.33	TN
04/24/2020	I	01	1084927	333441 - ZIGNEGO COMPANY, INC.	ZIGT75	SW-CONT SOIL-ALT D	16.99	TN
04/24/2020	I	01	1084931	333441 - ZIGNEGO COMPANY, INC.	POLT6	SW-CONT SOIL-ALT D	17.15	TN
07/30/2020	I	01	1092495	333441 - ZIGNEGO COMPANY, INC.	ZIGT80	SW-CONT SOIL-ALT D	24.02	TN
07/30/2020	I	01	1092497	333441 - ZIGNEGO COMPANY, INC.	ZIGT77	SW-CONT SOIL-ALT D	21.05	TN
07/30/2020	I	01	1092500	333441 - ZIGNEGO COMPANY, INC.	ZIGT70-03	SW-CONT SOIL-ALT D	20.03	TN
07/30/2020	I	01	1092501	333441 - ZIGNEGO COMPANY, INC.	ZIGT76	SW-CONT SOIL-ALT D	17.25	TN
07/30/2020	I	01	1092503	333441 - ZIGNEGO COMPANY, INC.	ROQ09	SW-CONT SOIL-ALT D	16.81	TN
07/30/2020	I	01	1092504	333441 - ZIGNEGO COMPANY, INC.	ZIGT92	SW-CONT SOIL-ALT D	21.25	TN
07/30/2020	I	01	1092506	333441 - ZIGNEGO COMPANY, INC.	ZIGT40-04	SW-CONT SOIL-ALT D	20.79	TN
07/30/2020	I	01	1092507	333441 - ZIGNEGO COMPANY, INC.	ZIGT80	SW-CONT SOIL-ALT D	19.91	TN
07/30/2020	I	01	1092508	333441 - ZIGNEGO COMPANY, INC.	Z91	SW-CONT SOIL-ALT D	21.34	TN
07/30/2020	I	01	1092509	333441 - ZIGNEGO COMPANY, INC.	AAS98	SW-CONT SOIL-ALT D	20.83	TN
07/30/2020	I	01	1092510	333441 - ZIGNEGO COMPANY, INC.	ZIGT77	SW-CONT SOIL-ALT D	19.26	TN
07/30/2020	I	01	1092511	333441 - ZIGNEGO COMPANY, INC.	Szada23	SW-CONT SOIL-ALT D	20.11	TN
07/30/2020	I	01	1092513	333441 - ZIGNEGO COMPANY, INC.	ZIGT70-03	SW-CONT SOIL-ALT D	19.92	TN
07/30/2020	I	01	1092514	333441 - ZIGNEGO COMPANY, INC.	RAM3	SW-CONT SOIL-ALT D	19.84	TN
07/30/2020	I	01	1092515	333441 - ZIGNEGO COMPANY, INC.	ZIGT70-04	SW-CONT SOIL-ALT D	19.51	TN
07/30/2020	I	01	1092517	333441 - ZIGNEGO COMPANY, INC.	ZIGT76	SW-CONT SOIL-ALT D	17.42	TN
07/30/2020	I	01	1092518	333441 - ZIGNEGO COMPANY, INC.	ROQ09	SW-CONT SOIL-ALT D	19.84	TN
07/30/2020	I	01	1092520	333441 - ZIGNEGO COMPANY, INC.	ZIGT92	SW-CONT SOIL-ALT D	19.56	TN
09/24/2020	I	01	1096715	333441 - ZIGNEGO COMPANY, INC.	ZIGT40-04	SW-CONT SOIL-ALT D	20.71	TN

Tickets Reported: 66 Items Reported: 66

Material Summary	Weight		Volume		Count		Billing Quantity
	Inbound	Outbound	Inbound	Outbound	Inbound	Outbound	
VI - SW-CONT SOIL-ALT DAILY COVER	1,265.16	0.00 TN	505.00	0.00 YD	0.00	0.00	1,265.16 TN

All Ticket Types
History and Waiting
* - Confirmed Qty Applied to Billing

Detail Contract Activity Report

January 01, 2020 to December 14, 2020

Specific Contract(s) : '3063201859'

All Facilities

Tickets Reported: 66 Items Reported: 66

Special Waste Profile



Disposal Facility: Waste Profile #:
Sales Rep #:

I. Generator Information

Generator Name:
Generator Site Address:
City: County: State: Zip:
State ID/Reg No: State Approval/Waste Code: NAICS #:
Generator Mailing Address (if different)
City: County: State: Zip:
Generator Contact Name: Email:
Phone Number: Ext: Fax Number:

II. Billing Information

Bill To: Contact Name:
Billing Address: Email:
City: State: Zip: Phone:

III. Waste Stream Information

Name of Waste:
Process Generating Waste:
Type of Waste: Physical State: Method of Shipment:
Estimated Volume: Volume Type:
Frequency: Disposal Consideration:

IV. Representative Sample Certification

No Sample Taken
 Sample Taken Type of Sample
Is the representative sample collected to prepare this profile and laboratory analysis, collected in accordance with U.S. EPA 40 CFR 261.20(c) guidelines or equivalent? Yes No
Sample Date: Sample ID Numbers or SDS:

Remember to attach Laboratory Analytical Report (and/or Material Safety Data Sheet) including Chain of Custody and required parameters provided for this profile.

V. Physical Characteristics of Waste

Characteristic Components (must equal 100%):

1.	Soil
2.	
3.	
4.	
5.	

% By Weight (out of 100% - ranges acceptable):

100

Color: brown	Odor (describe): possible gasoline	Does Waste Contain Free Liquids? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	% Solids: 100	pH: ~7	Flash Point: >176 °F
-----------------	---------------------------------------	---------------------------------------------------------------------------------------------------------	------------------	-----------	-------------------------

Attach Laboratory Analytical Report (and/or Material Safety Data Sheet) including Chain of Custody and required parameters provided for this profile.

RCRA Regulatory Questions

- Does this waste or generating process contain regulated concentrations of the following Pesticides and/ or Herbicides: Chlordane, Endrin, Heptachlor (and its epoxides), Lindane, Methoxychlor, Toxaphene, 2,4-D, or 2,4,5-TP Silvex as defined in 40 CFR 261.33? Yes No
- Does this waste contain reactive sulfides (greater than 500 ppm) or reactive cyanide (greater than 250 ppm) [reference 40 CFR 261.23(a)(5)]? Yes No
- Does this waste contain regulated concentrations of Polychlorinated Biphenyls (PCBs) as defined in 40 CFR Part 761? Yes No
- Does this waste contain concentrations of listed hazardous wastes defined in 40 CFR 261.31, 261.32, 261.33, including RCRA F-Listed Solvents? Yes No
- Has this waste been delisted under 40 CFR 260.20 and 260.22? If yes, attach the final decision to delist the waste as published in the Federal Register. Yes No
- Does this waste exhibit a Hazardous Characteristic as defined by Federal and/or State regulations? If Yes, identify the applicable waste code and specify if the waste is hazardous as defined by Federal, State or both? Yes No
- Does this waste contain regulated concentrations of 2,3,7,8-Tetrachlorodibenzodioxin (2,3,7,8-TCDD), or any other dioxin as defined in 40 CFR 261.31? Yes No
- Is this a regulated Medical or Infectious Waste as defined by Federal and/or State regulations? Yes No
- Is this a regulated Radioactive Waste as defined by Federal and/or State regulations? Yes No
- Is this a solid waste that is not a hazardous waste in accordance with 40 CFR 261.4(b)? If yes, please provide the corresponding regulatory citation. Yes No

Republic Services Waste Handling Questions

- Does this waste generate heat or react when contacted with water/moisture? Yes No
- Does the waste contain sulfur or sulfur by-products? Yes No
- Is this waste generated at a State or Federal Superfund cleanup site subject to regulation under CERCLA? Yes No
- 4a. Is this waste from a TSD facility, TSD-like facility or consolidator (i.e. multiple wastes/multiple generators)? Yes No
- 4b. If yes to the above question, please provide clarification.

Special Waste Profile



VI. Certification

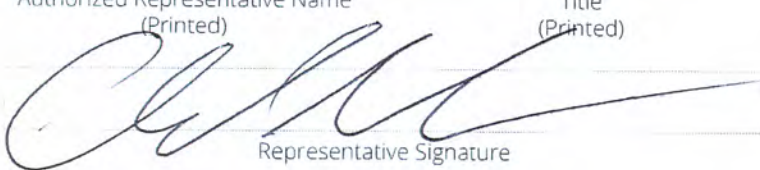
I hereby certify that to the best of my knowledge and belief, the information contained herein is a true, complete and accurate description of the waste material being offered for disposal and all known or suspected hazards have been disclosed. All Analytical Results/Material Safety Data Sheets submitted are truthful and complete and are representative of the waste.

I further certify that by utilizing this profile, neither myself nor any other employee of the company will deliver for disposal or attempt to deliver for disposal any waste which is classified as toxic waste, hazardous waste or infectious waste, or any other waste material this facility is prohibited from accepting by law. I shall immediately give written notice of any change or condition pertaining to the waste not provided herein. Our company hereby agrees to fully indemnify this disposal facility against any damages resulting from this certification being inaccurate or untrue.

I understand that attaching an electronic signature, I am signing this document, consent to complete this transaction and receive all related communication electronically, and agree this document will be binding as though I had physically signed it. A printout of this document may be accepted with the same authority as the original.

If electronic signature is preferred, please submit completed (unsigned) form to your Special Waste Coordinator or Special Waste Sales Executive to initiate signature process.

I further certify that the company has not altered the form or content of this profile sheet as provided by Republic Services.

Andrew Malsom	Environmental Engineer	Wisconsin DOT
Authorized Representative Name (Printed)	Title (Printed)	Company Name
	Representative Signature	February 3, 2020
		Date

Petroleum contaminated soil

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Chicago
2417 Bond Street
University Park, IL 60484
Tel: (708)534-5200

TestAmerica Job ID: 500-127505-1

Client Project/Site: STH 11 Kentucky to Kearney - 275788

For:
TRC Environmental Corporation.
150 N. Patrick Blvd.
Suite 180
Brookfield, Wisconsin 53045

Attn: Mr. Bryan Bergmann



Authorized for release by:
5/17/2017 6:05:10 PM

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.

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15
- 16



Table of Contents

Cover Page	1
Table of Contents	2
Case Narrative	3
Detection Summary	4
Method Summary	8
Sample Summary	9
Client Sample Results	10
Subcontract Data	35
Definitions	36
QC Association	37
Surrogate Summary	44
QC Sample Results	47
Chronicle	59
Certification Summary	71
Chain of Custody	72
Receipt Checklists	80

Case Narrative

Client: TRC Environmental Corporation.
Project/Site: STH 11 Kentucky to Kearney - 275788

TestAmerica Job ID: 500-127505-1

Job ID: 500-127505-1

Laboratory: TestAmerica Chicago

Narrative

Job Narrative 500-127505-1

Comments

No additional comments.

Receipt

The samples were received on 5/3/2017 9:00 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 2 coolers at receipt time were 3.3° C and 3.9° C.

GC/MS VOA

Method(s) 8260B: The laboratory control sample (LCS) for the soil preparation batch 384046 recovered outside control limits for 12 analytes. These analytes were biased high in the preparation batch LCS, but were within limits in the analytical batch LCS; therefore, the data has been reported.

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

GC/MS Semi VOA

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

GC VOA

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

GC Semi VOA

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

Metals

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

General Chemistry

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

Subcontract non-Sister

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

Organic Prep

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

VOA Prep

Method(s) WI GRO: Methanol was added to achieve a 1:1 ratio. GP-01 (6-8) (500-127505-2), GP-02 (2-4) (500-127505-3), GP-02 (6-8) (500-127505-4), GP-02 (14-16) (500-127505-5), GP-06 (2-4) (500-127505-13), GP-06 (6-8) (500-127505-14) and GP-07 (2-4) (500-127505-15)

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

Subcontract Work

Method % Chlorine: This method was subcontracted to SF/Eurofins Analytical Laboratories. The subcontract laboratory certification is different from that of the facility issuing the final report.

Detection Summary

Client: TRC Environmental Corporation.
Project/Site: STH 11 Kentucky to Kearney - 275788

TestAmerica Job ID: 500-127505-1

Client Sample ID: GP-01 (0-2)

Lab Sample ID: 500-127505-1

No Detections.

Client Sample ID: GP-01 (6-8)

Lab Sample ID: 500-127505-2

No Detections.

Client Sample ID: GP-02 (2-4)

Lab Sample ID: 500-127505-3

No Detections.

Client Sample ID: GP-02 (6-8)

Lab Sample ID: 500-127505-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Naphthalene	2500		330	160	ug/Kg	1	☒	WDNR	Total/NA

Client Sample ID: GP-02 (14-16)

Lab Sample ID: 500-127505-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Naphthalene	270	J	280	130	ug/Kg	1	☒	WDNR	Total/NA

Client Sample ID: GP-03 (2-4)

Lab Sample ID: 500-127505-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	37		0.58	0.27	mg/Kg	1	☒	6010B	Total/NA

Client Sample ID: GP-03 (6-8)

Lab Sample ID: 500-127505-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	8.9		0.52	0.24	mg/Kg	1	☒	6010B	Total/NA

Client Sample ID: GP-04 (2-4)

Lab Sample ID: 500-127505-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	9.4		0.50	0.23	mg/Kg	1	☒	6010B	Total/NA

Client Sample ID: GP-04 (6-8)

Lab Sample ID: 500-127505-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Tetrachloroethene	540		66	24	ug/Kg	50	☒	8260B	Total/NA
Lead	11		0.53	0.24	mg/Kg	1	☒	6010B	Total/NA

Client Sample ID: GP-05 (2-4)

Lab Sample ID: 500-127505-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	20		0.52	0.24	mg/Kg	1	☒	6010B	Total/NA

Client Sample ID: GP-05 (6-8)

Lab Sample ID: 500-127505-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	9.6		0.52	0.24	mg/Kg	1	☒	6010B	Total/NA
Barium	0.34	J	0.50	0.050	mg/L	1		6010B	TCLP
Cadmium	0.0020	J	0.0050	0.0020	mg/L	1		6010B	TCLP

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: TRC Environmental Corporation.
Project/Site: STH 11 Kentucky to Kearney - 275788

TestAmerica Job ID: 500-127505-1

Client Sample ID: GP-05 (6-8) (Continued)

Lab Sample ID: 500-127505-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	0.014	J	0.050	0.0075	mg/L	1		6010B	TCLP
Nickel	0.014	J	0.025	0.010	mg/L	1		6010B	TCLP
Flashpoint	>176		40.0	40.0	Degrees F	1		1010	Total/NA
Sulfide	6.7	J	9.8	4.6	mg/Kg	1		9034	Total/NA
pH	9.0		0.2	0.2	SU	1		9045C	Total/NA
Paint Filter	PASS				No Unit	1		9095A	Total/NA
Specific Gravity	3.1404				NONE	1		SM 2710F	Total/NA

Client Sample ID: GP-05 (14-16)

Lab Sample ID: 500-127505-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	14		0.50	0.23	mg/Kg	1	☼	6010B	Total/NA

Client Sample ID: GP-06 (2-4)

Lab Sample ID: 500-127505-13

No Detections.

Client Sample ID: GP-06 (6-8)

Lab Sample ID: 500-127505-14

No Detections.

Client Sample ID: GP-07 (2-4)

Lab Sample ID: 500-127505-15

No Detections.

Client Sample ID: GP-07 (6-8)

Lab Sample ID: 500-127505-16

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
WI Diesel Range Organics (C10-C28)	2.2	J	4.5	1.8	mg/Kg	1	☼	WI-DRO	Total/NA
Barium	0.38	J	0.50	0.050	mg/L	1		6010B	TCLP
Cadmium	0.0027	J	0.0050	0.0020	mg/L	1		6010B	TCLP
Flashpoint	>176		40.0	40.0	Degrees F	1		1010	Total/NA
Sulfide	8.8	J	10	4.7	mg/Kg	1		9034	Total/NA
pH	9.1		0.2	0.2	SU	1		9045C	Total/NA
Paint Filter	PASS				No Unit	1		9095A	Total/NA
Specific Gravity	2.1987				NONE	1		SM 2710F	Total/NA

Client Sample ID: GP-07 (14-16)

Lab Sample ID: 500-127505-17

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Naphthalene	270	J	280	130	ug/Kg	1	☼	WDNR	Total/NA
1,3,5-Trimethylbenzene	23	J	28	17	ug/Kg	1	☼	WDNR	Total/NA
Xylenes, Total	38	J	84	34	ug/Kg	1	☼	WDNR	Total/NA

Client Sample ID: GP-08 (2-4)

Lab Sample ID: 500-127505-18

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	9.9		0.51	0.24	mg/Kg	1	☼	6010B	Total/NA

Client Sample ID: GP-08 (6-8)

Lab Sample ID: 500-127505-19

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: TRC Environmental Corporation.
Project/Site: STH 11 Kentucky to Kearney - 275788

TestAmerica Job ID: 500-127505-1

Client Sample ID: GP-08 (6-8) (Continued)

Lab Sample ID: 500-127505-19

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	9.3		0.53	0.24	mg/Kg	1	☒	6010B	Total/NA

Client Sample ID: GP-09 (2-4)

Lab Sample ID: 500-127505-20

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Toluene	36		30	21	ug/Kg	1	☒	WDNR	Total/NA
Lead	13		0.54	0.25	mg/Kg	1	☒	6010B	Total/NA

Client Sample ID: GP-09 (6-8)

Lab Sample ID: 500-127505-21

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,2,4-Trimethylbenzene	20	J	29	17	ug/Kg	1	☒	WDNR	Total/NA
Lead	8.0		0.55	0.25	mg/Kg	1	☒	6010B	Total/NA

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

Lab Sample ID: 500-127505-22

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	14		0.56	0.26	mg/Kg	1	☒	6010B	Total/NA

Client Sample ID: GP-10 (6-8)

Lab Sample ID: 500-127505-23

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	9.9		0.53	0.24	mg/Kg	1	☒	6010B	Total/NA

Client Sample ID: GP-11 (2-4)

Lab Sample ID: 500-127505-24

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Ethylbenzene	60		28	22	ug/Kg	1	☒	WDNR	Total/NA
1,2,4-Trimethylbenzene	31		28	17	ug/Kg	1	☒	WDNR	Total/NA
Xylenes, Total	110		85	34	ug/Kg	1	☒	WDNR	Total/NA
Lead	63		0.49	0.23	mg/Kg	1	☒	6010B	Total/NA

Client Sample ID: GP-11 (6-8)

Lab Sample ID: 500-127505-25

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
WI Diesel Range Organics (C10-C28)	4.9		4.4	1.8	mg/Kg	1	☒	WI-DRO	Total/NA
Lead	11		0.52	0.24	mg/Kg	1	☒	6010B	Total/NA
Barium	0.15	J	0.50	0.050	mg/L	1		6010B	TCLP
Cadmium	0.0040	J	0.0050	0.0020	mg/L	1		6010B	TCLP
Copper	0.011	J	0.025	0.010	mg/L	1		6010B	TCLP
Lead	0.034	J	0.050	0.0075	mg/L	1		6010B	TCLP
Nickel	0.024	J	0.025	0.010	mg/L	1		6010B	TCLP
Zinc	0.030	J	0.10	0.020	mg/L	1		6010B	TCLP
Flashpoint	>176		40.0	40.0	Degrees F	1		1010	Total/NA
Sulfide	6.2	J	9.7	4.6	mg/Kg	1		9034	Total/NA
pH	8.8		0.2	0.2	SU	1		9045C	Total/NA
Paint Filter	PASS				No Unit	1		9095A	Total/NA
Specific Gravity	1.1838				NONE	1		SM 2710F	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: TRC Environmental Corporation.
Project/Site: STH 11 Kentucky to Kearney - 275788

TestAmerica Job ID: 500-127505-1

Client Sample ID: Trip Blank

Lab Sample ID: 500-127505-26

No Detections.

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15
- 16

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Method Summary

Client: TRC Environmental Corporation.
Project/Site: STH 11 Kentucky to Kearney - 275788

TestAmerica Job ID: 500-127505-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL CHI
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	TAL CHI
WDNR	Wisconsin - Gasoline Range Organics (GC)	WI-GRO	TAL NSH
WI-GRO	Wisconsin - Gasoline Range Organics (GC)	WI-GRO	TAL CHI
8082A	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	TAL CHI
WI-DRO	Wisconsin - Diesel Range Organics (GC)	WI-DRO	TAL CHI
6010B	Metals (ICP)	SW846	TAL CHI
7470A	Mercury (CVAA)	SW846	TAL CHI
1010	Ignitability, Pensky-Martens Closed-Cup Method	SW846	TAL CHI
9014	Cyanide	SW846	TAL CHI
9034	Sulfide, Acid soluble and Insoluble (Titrimetric)	SW846	TAL CHI
9045C	pH	SW846	TAL CHI
9095A	Paint Filter	SW846	TAL CHI
Moisture	Percent Moisture	EPA	TAL NSH
Moisture	Percent Moisture	EPA	TAL CHI
SM 2710F	Specific Gravity, Density	SM	TAL CHI
% Chlorine	General Sub Contract Method	NONE	SFAL

Protocol References:

EPA = US Environmental Protection Agency

NONE = NONE

SM = "Standard Methods For The Examination Of Water And Wastewater",

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

WI-DRO = "Modified DRO: Method For Determining Diesel Range Organics", Wisconsin DNR, Publ-SW-141, September, 1995.

WI-GRO = "Modified GRO: Method For Determining Gasoline Range Organics", Wisconsin DNR, Publ-SW-140, September, 1995.

Laboratory References:

SFAL = SF Analytical Laboratories, 2345 South 170th Street, New Berlin, WI 53151

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

TAL NSH = TestAmerica Nashville, 2960 Foster Creighton Drive, Nashville, TN 37204, TEL (615)726-0177

Sample Summary

Client: TRC Environmental Corporation.
Project/Site: STH 11 Kentucky to Kearney - 275788

TestAmerica Job ID: 500-127505-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-127505-1	GP-01 (0-2)	Solid	05/01/17 08:35	05/03/17 09:00
500-127505-2	GP-01 (6-8)	Solid	05/01/17 08:45	05/03/17 09:00
500-127505-3	GP-02 (2-4)	Solid	05/01/17 09:15	05/03/17 09:00
500-127505-4	GP-02 (6-8)	Solid	05/01/17 09:25	05/03/17 09:00
500-127505-5	GP-02 (14-16)	Solid	05/01/17 09:30	05/03/17 09:00
500-127505-6	GP-03 (2-4)	Solid	05/01/17 10:10	05/03/17 09:00
500-127505-7	GP-03 (6-8)	Solid	05/01/17 10:15	05/03/17 09:00
500-127505-8	GP-04 (2-4)	Solid	05/01/17 10:35	05/03/17 09:00
500-127505-9	GP-04 (6-8)	Solid	05/01/17 10:40	05/03/17 09:00
500-127505-10	GP-05 (2-4)	Solid	05/01/17 11:00	05/03/17 09:00
500-127505-11	GP-05 (6-8)	Solid	05/01/17 11:10	05/03/17 09:00
500-127505-12	GP-05 (14-16)	Solid	05/01/17 11:20	05/03/17 09:00
500-127505-13	GP-06 (2-4)	Solid	05/01/17 12:00	05/03/17 09:00
500-127505-14	GP-06 (6-8)	Solid	05/01/17 12:05	05/03/17 09:00
500-127505-15	GP-07 (2-4)	Solid	05/01/17 12:30	05/03/17 09:00
500-127505-16	GP-07 (6-8)	Solid	05/01/17 12:35	05/03/17 09:00
500-127505-17	GP-07 (14-16)	Solid	05/01/17 12:50	05/03/17 09:00
500-127505-18	GP-08 (2-4)	Solid	05/01/17 13:45	05/03/17 09:00
500-127505-19	GP-08 (6-8)	Solid	05/01/17 13:50	05/03/17 09:00
500-127505-20	GP-09 (2-4)	Solid	05/01/17 14:20	05/03/17 09:00
500-127505-21	GP-09 (6-8)	Solid	05/01/17 14:25	05/03/17 09:00
500-127505-22	GP-10 (2-4)	Solid	05/01/17 14:35	05/03/17 09:00
500-127505-23	GP-10 (6-8)	Solid	05/01/17 14:40	05/03/17 09:00
500-127505-24	GP-11 (2-4)	Solid	05/01/17 15:00	05/03/17 09:00
500-127505-25	GP-11 (6-8)	Solid	05/01/17 15:05	05/03/17 09:00
500-127505-26	Trip Blank	Solid	05/01/17 00:00	05/03/17 09:00

Client Sample Results

Client: TRC Environmental Corporation.
Project/Site: STH 11 Kentucky to Kearney - 275788

TestAmerica Job ID: 500-127505-1

Client Sample ID: GP-01 (0-2)

Date Collected: 05/01/17 08:35

Date Received: 05/03/17 09:00

Lab Sample ID: 500-127505-1

Matrix: Solid

Percent Solids: 80.5

Method: WDNR - Wisconsin - Gasoline Range Organics (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<20		27	20	ug/Kg	☼	05/05/17 15:52	05/09/17 23:35	1
Ethylbenzene	<21		27	21	ug/Kg	☼	05/05/17 15:52	05/09/17 23:35	1
Methyl tert-butyl ether	<13		27	13	ug/Kg	☼	05/05/17 15:52	05/09/17 23:35	1
Naphthalene	<130		270	130	ug/Kg	☼	05/05/17 15:52	05/09/17 23:35	1
Toluene	<19		27	19	ug/Kg	☼	05/05/17 15:52	05/09/17 23:35	1
1,2,4-Trimethylbenzene	<16		27	16	ug/Kg	☼	05/05/17 15:52	05/09/17 23:35	1
1,3,5-Trimethylbenzene	<16		27	16	ug/Kg	☼	05/05/17 15:52	05/09/17 23:35	1
Xylenes, Total	<33		82	33	ug/Kg	☼	05/05/17 15:52	05/09/17 23:35	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>a,a,a-Trifluorotoluene</i>	87		80 - 120	05/05/17 15:52	05/09/17 23:35	1

Client Sample ID: GP-01 (6-8)

Date Collected: 05/01/17 08:45

Date Received: 05/03/17 09:00

Lab Sample ID: 500-127505-2

Matrix: Solid

Percent Solids: 85.1

Method: WDNR - Wisconsin - Gasoline Range Organics (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<21		29	21	ug/Kg	☼	05/05/17 15:52	05/10/17 00:02	1
Ethylbenzene	<22		29	22	ug/Kg	☼	05/05/17 15:52	05/10/17 00:02	1
Methyl tert-butyl ether	<14		29	14	ug/Kg	☼	05/05/17 15:52	05/10/17 00:02	1
Naphthalene	<140		290	140	ug/Kg	☼	05/05/17 15:52	05/10/17 00:02	1
Toluene	<20		29	20	ug/Kg	☼	05/05/17 15:52	05/10/17 00:02	1
1,2,4-Trimethylbenzene	<17		29	17	ug/Kg	☼	05/05/17 15:52	05/10/17 00:02	1
1,3,5-Trimethylbenzene	<17		29	17	ug/Kg	☼	05/05/17 15:52	05/10/17 00:02	1
Xylenes, Total	<35		87	35	ug/Kg	☼	05/05/17 15:52	05/10/17 00:02	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>a,a,a-Trifluorotoluene</i>	88		80 - 120	05/05/17 15:52	05/10/17 00:02	1

Client Sample ID: GP-02 (2-4)

Date Collected: 05/01/17 09:15

Date Received: 05/03/17 09:00

Lab Sample ID: 500-127505-3

Matrix: Solid

Percent Solids: 83.1

Method: WDNR - Wisconsin - Gasoline Range Organics (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<21		30	21	ug/Kg	☼	05/05/17 15:52	05/10/17 00:28	1
Ethylbenzene	<23		30	23	ug/Kg	☼	05/05/17 15:52	05/10/17 00:28	1
Methyl tert-butyl ether	<14		30	14	ug/Kg	☼	05/05/17 15:52	05/10/17 00:28	1
Naphthalene	<140		300	140	ug/Kg	☼	05/05/17 15:52	05/10/17 00:28	1
Toluene	<20		30	20	ug/Kg	☼	05/05/17 15:52	05/10/17 00:28	1
1,2,4-Trimethylbenzene	<18		30	18	ug/Kg	☼	05/05/17 15:52	05/10/17 00:28	1
1,3,5-Trimethylbenzene	<18		30	18	ug/Kg	☼	05/05/17 15:52	05/10/17 00:28	1
Xylenes, Total	<36		89	36	ug/Kg	☼	05/05/17 15:52	05/10/17 00:28	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>a,a,a-Trifluorotoluene</i>	91		80 - 120	05/05/17 15:52	05/10/17 00:28	1

TestAmerica Chicago

Client Sample Results

Client: TRC Environmental Corporation.
Project/Site: STH 11 Kentucky to Kearney - 275788

TestAmerica Job ID: 500-127505-1

Client Sample ID: GP-02 (6-8)

Date Collected: 05/01/17 09:25

Date Received: 05/03/17 09:00

Lab Sample ID: 500-127505-4

Matrix: Solid

Percent Solids: 78.1

Method: WDNR - Wisconsin - Gasoline Range Organics (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<24		33	24	ug/Kg	☼	05/05/17 15:52	05/10/17 00:55	1
Ethylbenzene	<25		33	25	ug/Kg	☼	05/05/17 15:52	05/10/17 00:55	1
Methyl tert-butyl ether	<16		33	16	ug/Kg	☼	05/05/17 15:52	05/10/17 00:55	1
Naphthalene	2500		330	160	ug/Kg	☼	05/05/17 15:52	05/10/17 00:55	1
Toluene	<23		33	23	ug/Kg	☼	05/05/17 15:52	05/10/17 00:55	1
1,2,4-Trimethylbenzene	<20		33	20	ug/Kg	☼	05/05/17 15:52	05/10/17 00:55	1
1,3,5-Trimethylbenzene	<20		33	20	ug/Kg	☼	05/05/17 15:52	05/10/17 00:55	1
Xylenes, Total	<40		100	40	ug/Kg	☼	05/05/17 15:52	05/10/17 00:55	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>a,a,a-Trifluorotoluene</i>	89		80 - 120				05/05/17 15:52	05/10/17 00:55	1

Client Sample ID: GP-02 (14-16)

Date Collected: 05/01/17 09:30

Date Received: 05/03/17 09:00

Lab Sample ID: 500-127505-5

Matrix: Solid

Percent Solids: 86.8

Method: WDNR - Wisconsin - Gasoline Range Organics (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<20		28	20	ug/Kg	☼	05/05/17 15:52	05/10/17 08:30	1
Ethylbenzene	<21		28	21	ug/Kg	☼	05/05/17 15:52	05/10/17 08:30	1
Methyl tert-butyl ether	<13		28	13	ug/Kg	☼	05/05/17 15:52	05/10/17 08:30	1
Naphthalene	270	J	280	130	ug/Kg	☼	05/05/17 15:52	05/10/17 08:30	1
Toluene	<19		28	19	ug/Kg	☼	05/05/17 15:52	05/10/17 08:30	1
1,2,4-Trimethylbenzene	<17		28	17	ug/Kg	☼	05/05/17 15:52	05/10/17 08:30	1
1,3,5-Trimethylbenzene	<17		28	17	ug/Kg	☼	05/05/17 15:52	05/10/17 08:30	1
Xylenes, Total	<34		84	34	ug/Kg	☼	05/05/17 15:52	05/10/17 08:30	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>a,a,a-Trifluorotoluene</i>	92		80 - 120				05/05/17 15:52	05/10/17 08:30	1

Client Sample ID: GP-03 (2-4)

Date Collected: 05/01/17 10:10

Date Received: 05/03/17 09:00

Lab Sample ID: 500-127505-6

Matrix: Solid

Percent Solids: 81.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<34		74	34	ug/Kg	☼	05/01/17 10:10	05/15/17 12:30	50
1,1,1-Trichloroethane	<28		74	28	ug/Kg	☼	05/01/17 10:10	05/15/17 12:30	50
1,1,2,2-Tetrachloroethane	<29		74	29	ug/Kg	☼	05/01/17 10:10	05/15/17 12:30	50
1,1,2-Trichloroethane	<26		74	26	ug/Kg	☼	05/01/17 10:10	05/15/17 12:30	50
1,1-Dichloroethane	<30	*	74	30	ug/Kg	☼	05/01/17 10:10	05/15/17 12:30	50
1,1-Dichloroethene	<29	*	74	29	ug/Kg	☼	05/01/17 10:10	05/15/17 12:30	50
1,1-Dichloropropene	<22		74	22	ug/Kg	☼	05/01/17 10:10	05/15/17 12:30	50
1,2,3-Trichlorobenzene	<34		74	34	ug/Kg	☼	05/01/17 10:10	05/15/17 12:30	50
1,2,3-Trichloropropane	<30		74	30	ug/Kg	☼	05/01/17 10:10	05/15/17 12:30	50
1,2,4-Trichlorobenzene	<25		74	25	ug/Kg	☼	05/01/17 10:10	05/15/17 12:30	50
1,2,4-Trimethylbenzene	<26		74	26	ug/Kg	☼	05/01/17 10:10	05/15/17 12:30	50
1,2-Dibromo-3-Chloropropane	<150		370	150	ug/Kg	☼	05/01/17 10:10	05/15/17 12:30	50
1,2-Dibromoethane	<28		74	28	ug/Kg	☼	05/01/17 10:10	05/15/17 12:30	50
1,2-Dichlorobenzene	<25		74	25	ug/Kg	☼	05/01/17 10:10	05/15/17 12:30	50

TestAmerica Chicago

Client Sample Results

Client: TRC Environmental Corporation.
Project/Site: STH 11 Kentucky to Kearney - 275788

TestAmerica Job ID: 500-127505-1

Client Sample ID: GP-03 (2-4)

Lab Sample ID: 500-127505-6

Date Collected: 05/01/17 10:10

Matrix: Solid

Date Received: 05/03/17 09:00

Percent Solids: 81.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane	<29		74	29	ug/Kg	☼	05/01/17 10:10	05/15/17 12:30	50
1,2-Dichloropropane	<32		74	32	ug/Kg	☼	05/01/17 10:10	05/15/17 12:30	50
1,3,5-Trimethylbenzene	<28		74	28	ug/Kg	☼	05/01/17 10:10	05/15/17 12:30	50
1,3-Dichlorobenzene	<29		74	29	ug/Kg	☼	05/01/17 10:10	05/15/17 12:30	50
1,3-Dichloropropane	<27		74	27	ug/Kg	☼	05/01/17 10:10	05/15/17 12:30	50
1,4-Dichlorobenzene	<27		74	27	ug/Kg	☼	05/01/17 10:10	05/15/17 12:30	50
2,2-Dichloropropane	<33		74	33	ug/Kg	☼	05/01/17 10:10	05/15/17 12:30	50
2-Chlorotoluene	<23		74	23	ug/Kg	☼	05/01/17 10:10	05/15/17 12:30	50
4-Chlorotoluene	<26		74	26	ug/Kg	☼	05/01/17 10:10	05/15/17 12:30	50
Benzene	<11		18	11	ug/Kg	☼	05/01/17 10:10	05/15/17 12:30	50
Bromobenzene	<26		74	26	ug/Kg	☼	05/01/17 10:10	05/15/17 12:30	50
Bromochloromethane	<32 *		74	32	ug/Kg	☼	05/01/17 10:10	05/15/17 12:30	50
Bromodichloromethane	<27		74	27	ug/Kg	☼	05/01/17 10:10	05/15/17 12:30	50
Bromoform	<36		74	36	ug/Kg	☼	05/01/17 10:10	05/15/17 12:30	50
Bromomethane	<59		150	59	ug/Kg	☼	05/01/17 10:10	05/15/17 12:30	50
Carbon tetrachloride	<28		74	28	ug/Kg	☼	05/01/17 10:10	05/15/17 12:30	50
Chlorobenzene	<28		74	28	ug/Kg	☼	05/01/17 10:10	05/15/17 12:30	50
Chloroethane	<37		74	37	ug/Kg	☼	05/01/17 10:10	05/15/17 12:30	50
Chloroform	<27 *		150	27	ug/Kg	☼	05/01/17 10:10	05/15/17 12:30	50
Chloromethane	<24		74	24	ug/Kg	☼	05/01/17 10:10	05/15/17 12:30	50
cis-1,2-Dichloroethene	<30 *		74	30	ug/Kg	☼	05/01/17 10:10	05/15/17 12:30	50
cis-1,3-Dichloropropene	<31		74	31	ug/Kg	☼	05/01/17 10:10	05/15/17 12:30	50
Dibromochloromethane	<36		74	36	ug/Kg	☼	05/01/17 10:10	05/15/17 12:30	50
Dibromomethane	<20		74	20	ug/Kg	☼	05/01/17 10:10	05/15/17 12:30	50
Dichlorodifluoromethane	<50		150	50	ug/Kg	☼	05/01/17 10:10	05/15/17 12:30	50
Ethylbenzene	<13		18	13	ug/Kg	☼	05/01/17 10:10	05/15/17 12:30	50
Hexachlorobutadiene	<33		74	33	ug/Kg	☼	05/01/17 10:10	05/15/17 12:30	50
Isopropyl ether	<20		74	20	ug/Kg	☼	05/01/17 10:10	05/15/17 12:30	50
Isopropylbenzene	<28		74	28	ug/Kg	☼	05/01/17 10:10	05/15/17 12:30	50
Methyl tert-butyl ether	<29 *		74	29	ug/Kg	☼	05/01/17 10:10	05/15/17 12:30	50
Methylene Chloride	<120 *		370	120	ug/Kg	☼	05/01/17 10:10	05/15/17 12:30	50
Naphthalene	<25 *		74	25	ug/Kg	☼	05/01/17 10:10	05/15/17 12:30	50
n-Butylbenzene	<29		74	29	ug/Kg	☼	05/01/17 10:10	05/15/17 12:30	50
N-Propylbenzene	<30		74	30	ug/Kg	☼	05/01/17 10:10	05/15/17 12:30	50
p-Isopropyltoluene	<27		74	27	ug/Kg	☼	05/01/17 10:10	05/15/17 12:30	50
sec-Butylbenzene	<29		74	29	ug/Kg	☼	05/01/17 10:10	05/15/17 12:30	50
Styrene	<28 *		74	28	ug/Kg	☼	05/01/17 10:10	05/15/17 12:30	50
tert-Butylbenzene	<29		74	29	ug/Kg	☼	05/01/17 10:10	05/15/17 12:30	50
Tetrachloroethene	<27		74	27	ug/Kg	☼	05/01/17 10:10	05/15/17 12:30	50
Toluene	<11		18	11	ug/Kg	☼	05/01/17 10:10	05/15/17 12:30	50
trans-1,2-Dichloroethene	<26 *		74	26	ug/Kg	☼	05/01/17 10:10	05/15/17 12:30	50
trans-1,3-Dichloropropene	<27		74	27	ug/Kg	☼	05/01/17 10:10	05/15/17 12:30	50
Trichloroethene	<12		37	12	ug/Kg	☼	05/01/17 10:10	05/15/17 12:30	50
Trichlorofluoromethane	<32 *		74	32	ug/Kg	☼	05/01/17 10:10	05/15/17 12:30	50
Vinyl chloride	<19 *		37	19	ug/Kg	☼	05/01/17 10:10	05/15/17 12:30	50
Xylenes, Total	<16		37	16	ug/Kg	☼	05/01/17 10:10	05/15/17 12:30	50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	97		75 - 126	05/01/17 10:10	05/15/17 12:30	50
4-Bromofluorobenzene (Surr)	89		72 - 124	05/01/17 10:10	05/15/17 12:30	50

TestAmerica Chicago

Client Sample Results

Client: TRC Environmental Corporation.
Project/Site: STH 11 Kentucky to Kearney - 275788

TestAmerica Job ID: 500-127505-1

Client Sample ID: GP-03 (2-4)

Date Collected: 05/01/17 10:10

Date Received: 05/03/17 09:00

Lab Sample ID: 500-127505-6

Matrix: Solid

Percent Solids: 81.5

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane	101		75 - 120	05/01/17 10:10	05/15/17 12:30	50
Toluene-d8 (Surr)	94		75 - 120	05/01/17 10:10	05/15/17 12:30	50

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	37		0.58	0.27	mg/Kg	☼	05/05/17 15:07	05/11/17 21:48	1

Client Sample ID: GP-03 (6-8)

Date Collected: 05/01/17 10:15

Date Received: 05/03/17 09:00

Lab Sample ID: 500-127505-7

Matrix: Solid

Percent Solids: 87.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<30		65	30	ug/Kg	☼	05/01/17 10:15	05/15/17 12:59	50
1,1,1-Trichloroethane	<25		65	25	ug/Kg	☼	05/01/17 10:15	05/15/17 12:59	50
1,1,2,2-Tetrachloroethane	<26		65	26	ug/Kg	☼	05/01/17 10:15	05/15/17 12:59	50
1,1,2-Trichloroethane	<23		65	23	ug/Kg	☼	05/01/17 10:15	05/15/17 12:59	50
1,1-Dichloroethane	<27 *		65	27	ug/Kg	☼	05/01/17 10:15	05/15/17 12:59	50
1,1-Dichloroethene	<26 *		65	26	ug/Kg	☼	05/01/17 10:15	05/15/17 12:59	50
1,1-Dichloropropene	<20		65	20	ug/Kg	☼	05/01/17 10:15	05/15/17 12:59	50
1,2,3-Trichlorobenzene	<30		65	30	ug/Kg	☼	05/01/17 10:15	05/15/17 12:59	50
1,2,3-Trichloropropane	<27		65	27	ug/Kg	☼	05/01/17 10:15	05/15/17 12:59	50
1,2,4-Trichlorobenzene	<22		65	22	ug/Kg	☼	05/01/17 10:15	05/15/17 12:59	50
1,2,4-Trimethylbenzene	<23		65	23	ug/Kg	☼	05/01/17 10:15	05/15/17 12:59	50
1,2-Dibromo-3-Chloropropane	<130		330	130	ug/Kg	☼	05/01/17 10:15	05/15/17 12:59	50
1,2-Dibromoethane	<25		65	25	ug/Kg	☼	05/01/17 10:15	05/15/17 12:59	50
1,2-Dichlorobenzene	<22		65	22	ug/Kg	☼	05/01/17 10:15	05/15/17 12:59	50
1,2-Dichloroethane	<26		65	26	ug/Kg	☼	05/01/17 10:15	05/15/17 12:59	50
1,2-Dichloropropane	<28		65	28	ug/Kg	☼	05/01/17 10:15	05/15/17 12:59	50
1,3,5-Trimethylbenzene	<25		65	25	ug/Kg	☼	05/01/17 10:15	05/15/17 12:59	50
1,3-Dichlorobenzene	<26		65	26	ug/Kg	☼	05/01/17 10:15	05/15/17 12:59	50
1,3-Dichloropropane	<24		65	24	ug/Kg	☼	05/01/17 10:15	05/15/17 12:59	50
1,4-Dichlorobenzene	<24		65	24	ug/Kg	☼	05/01/17 10:15	05/15/17 12:59	50
2,2-Dichloropropane	<29		65	29	ug/Kg	☼	05/01/17 10:15	05/15/17 12:59	50
2-Chlorotoluene	<21		65	21	ug/Kg	☼	05/01/17 10:15	05/15/17 12:59	50
4-Chlorotoluene	<23		65	23	ug/Kg	☼	05/01/17 10:15	05/15/17 12:59	50
Benzene	<9.6		16	9.6	ug/Kg	☼	05/01/17 10:15	05/15/17 12:59	50
Bromobenzene	<23		65	23	ug/Kg	☼	05/01/17 10:15	05/15/17 12:59	50
Bromochloromethane	<28 *		65	28	ug/Kg	☼	05/01/17 10:15	05/15/17 12:59	50
Bromodichloromethane	<24		65	24	ug/Kg	☼	05/01/17 10:15	05/15/17 12:59	50
Bromoform	<32		65	32	ug/Kg	☼	05/01/17 10:15	05/15/17 12:59	50
Bromomethane	<52		130	52	ug/Kg	☼	05/01/17 10:15	05/15/17 12:59	50
Carbon tetrachloride	<25		65	25	ug/Kg	☼	05/01/17 10:15	05/15/17 12:59	50
Chlorobenzene	<25		65	25	ug/Kg	☼	05/01/17 10:15	05/15/17 12:59	50
Chloroethane	<33		65	33	ug/Kg	☼	05/01/17 10:15	05/15/17 12:59	50
Chloroform	<24 *		130	24	ug/Kg	☼	05/01/17 10:15	05/15/17 12:59	50
Chloromethane	<21		65	21	ug/Kg	☼	05/01/17 10:15	05/15/17 12:59	50
cis-1,2-Dichloroethene	<27 *		65	27	ug/Kg	☼	05/01/17 10:15	05/15/17 12:59	50
cis-1,3-Dichloropropene	<27		65	27	ug/Kg	☼	05/01/17 10:15	05/15/17 12:59	50

TestAmerica Chicago

Client Sample Results

Client: TRC Environmental Corporation.
Project/Site: STH 11 Kentucky to Kearney - 275788

TestAmerica Job ID: 500-127505-1

Client Sample ID: GP-03 (6-8)

Date Collected: 05/01/17 10:15

Date Received: 05/03/17 09:00

Lab Sample ID: 500-127505-7

Matrix: Solid

Percent Solids: 87.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dibromochloromethane	<32		65	32	ug/Kg	☼	05/01/17 10:15	05/15/17 12:59	50
Dibromomethane	<18		65	18	ug/Kg	☼	05/01/17 10:15	05/15/17 12:59	50
Dichlorodifluoromethane	<44		130	44	ug/Kg	☼	05/01/17 10:15	05/15/17 12:59	50
Ethylbenzene	<12		16	12	ug/Kg	☼	05/01/17 10:15	05/15/17 12:59	50
Hexachlorobutadiene	<29		65	29	ug/Kg	☼	05/01/17 10:15	05/15/17 12:59	50
Isopropyl ether	<18		65	18	ug/Kg	☼	05/01/17 10:15	05/15/17 12:59	50
Isopropylbenzene	<25		65	25	ug/Kg	☼	05/01/17 10:15	05/15/17 12:59	50
Methyl tert-butyl ether	<26 *		65	26	ug/Kg	☼	05/01/17 10:15	05/15/17 12:59	50
Methylene Chloride	<110 *		330	110	ug/Kg	☼	05/01/17 10:15	05/15/17 12:59	50
Naphthalene	<22 *		65	22	ug/Kg	☼	05/01/17 10:15	05/15/17 12:59	50
n-Butylbenzene	<25		65	25	ug/Kg	☼	05/01/17 10:15	05/15/17 12:59	50
N-Propylbenzene	<27		65	27	ug/Kg	☼	05/01/17 10:15	05/15/17 12:59	50
p-Isopropyltoluene	<24		65	24	ug/Kg	☼	05/01/17 10:15	05/15/17 12:59	50
sec-Butylbenzene	<26		65	26	ug/Kg	☼	05/01/17 10:15	05/15/17 12:59	50
Styrene	<25 *		65	25	ug/Kg	☼	05/01/17 10:15	05/15/17 12:59	50
tert-Butylbenzene	<26		65	26	ug/Kg	☼	05/01/17 10:15	05/15/17 12:59	50
Tetrachloroethene	<24		65	24	ug/Kg	☼	05/01/17 10:15	05/15/17 12:59	50
Toluene	<9.6		16	9.6	ug/Kg	☼	05/01/17 10:15	05/15/17 12:59	50
trans-1,2-Dichloroethene	<23 *		65	23	ug/Kg	☼	05/01/17 10:15	05/15/17 12:59	50
trans-1,3-Dichloropropene	<24		65	24	ug/Kg	☼	05/01/17 10:15	05/15/17 12:59	50
Trichloroethene	<11		33	11	ug/Kg	☼	05/01/17 10:15	05/15/17 12:59	50
Trichlorofluoromethane	<28 *		65	28	ug/Kg	☼	05/01/17 10:15	05/15/17 12:59	50
Vinyl chloride	<17 *		33	17	ug/Kg	☼	05/01/17 10:15	05/15/17 12:59	50
Xylenes, Total	<14		33	14	ug/Kg	☼	05/01/17 10:15	05/15/17 12:59	50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	97		75 - 126	05/01/17 10:15	05/15/17 12:59	50
4-Bromofluorobenzene (Surr)	91		72 - 124	05/01/17 10:15	05/15/17 12:59	50
Dibromofluoromethane	100		75 - 120	05/01/17 10:15	05/15/17 12:59	50
Toluene-d8 (Surr)	94		75 - 120	05/01/17 10:15	05/15/17 12:59	50

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	8.9		0.52	0.24	mg/Kg	☼	05/05/17 15:07	05/11/17 21:52	1

Client Sample ID: GP-04 (2-4)

Date Collected: 05/01/17 10:35

Date Received: 05/03/17 09:00

Lab Sample ID: 500-127505-8

Matrix: Solid

Percent Solids: 89.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<28		61	28	ug/Kg	☼	05/01/17 10:35	05/15/17 13:28	50
1,1,1-Trichloroethane	<23		61	23	ug/Kg	☼	05/01/17 10:35	05/15/17 13:28	50
1,1,2,2-Tetrachloroethane	<24		61	24	ug/Kg	☼	05/01/17 10:35	05/15/17 13:28	50
1,1,2-Trichloroethane	<21		61	21	ug/Kg	☼	05/01/17 10:35	05/15/17 13:28	50
1,1-Dichloroethane	<25 *		61	25	ug/Kg	☼	05/01/17 10:35	05/15/17 13:28	50
1,1-Dichloroethene	<24 *		61	24	ug/Kg	☼	05/01/17 10:35	05/15/17 13:28	50
1,1-Dichloropropene	<18		61	18	ug/Kg	☼	05/01/17 10:35	05/15/17 13:28	50
1,2,3-Trichlorobenzene	<28		61	28	ug/Kg	☼	05/01/17 10:35	05/15/17 13:28	50
1,2,3-Trichloropropane	<25		61	25	ug/Kg	☼	05/01/17 10:35	05/15/17 13:28	50

TestAmerica Chicago

Client Sample Results

Client: TRC Environmental Corporation.
Project/Site: STH 11 Kentucky to Kearney - 275788

TestAmerica Job ID: 500-127505-1

Client Sample ID: GP-04 (2-4)

Lab Sample ID: 500-127505-8

Date Collected: 05/01/17 10:35

Matrix: Solid

Date Received: 05/03/17 09:00

Percent Solids: 89.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<21		61	21	ug/Kg	☼	05/01/17 10:35	05/15/17 13:28	50
1,2,4-Trimethylbenzene	<22		61	22	ug/Kg	☼	05/01/17 10:35	05/15/17 13:28	50
1,2-Dibromo-3-Chloropropane	<120		300	120	ug/Kg	☼	05/01/17 10:35	05/15/17 13:28	50
1,2-Dibromoethane	<23		61	23	ug/Kg	☼	05/01/17 10:35	05/15/17 13:28	50
1,2-Dichlorobenzene	<20		61	20	ug/Kg	☼	05/01/17 10:35	05/15/17 13:28	50
1,2-Dichloroethane	<24		61	24	ug/Kg	☼	05/01/17 10:35	05/15/17 13:28	50
1,2-Dichloropropane	<26		61	26	ug/Kg	☼	05/01/17 10:35	05/15/17 13:28	50
1,3,5-Trimethylbenzene	<23		61	23	ug/Kg	☼	05/01/17 10:35	05/15/17 13:28	50
1,3-Dichlorobenzene	<24		61	24	ug/Kg	☼	05/01/17 10:35	05/15/17 13:28	50
1,3-Dichloropropane	<22		61	22	ug/Kg	☼	05/01/17 10:35	05/15/17 13:28	50
1,4-Dichlorobenzene	<22		61	22	ug/Kg	☼	05/01/17 10:35	05/15/17 13:28	50
2,2-Dichloropropane	<27		61	27	ug/Kg	☼	05/01/17 10:35	05/15/17 13:28	50
2-Chlorotoluene	<19		61	19	ug/Kg	☼	05/01/17 10:35	05/15/17 13:28	50
4-Chlorotoluene	<21		61	21	ug/Kg	☼	05/01/17 10:35	05/15/17 13:28	50
Benzene	<8.9		15	8.9	ug/Kg	☼	05/01/17 10:35	05/15/17 13:28	50
Bromobenzene	<22		61	22	ug/Kg	☼	05/01/17 10:35	05/15/17 13:28	50
Bromochloromethane	<26 *		61	26	ug/Kg	☼	05/01/17 10:35	05/15/17 13:28	50
Bromodichloromethane	<23		61	23	ug/Kg	☼	05/01/17 10:35	05/15/17 13:28	50
Bromoform	<29		61	29	ug/Kg	☼	05/01/17 10:35	05/15/17 13:28	50
Bromomethane	<48		120	48	ug/Kg	☼	05/01/17 10:35	05/15/17 13:28	50
Carbon tetrachloride	<23		61	23	ug/Kg	☼	05/01/17 10:35	05/15/17 13:28	50
Chlorobenzene	<23		61	23	ug/Kg	☼	05/01/17 10:35	05/15/17 13:28	50
Chloroethane	<31		61	31	ug/Kg	☼	05/01/17 10:35	05/15/17 13:28	50
Chloroform	<22 *		120	22	ug/Kg	☼	05/01/17 10:35	05/15/17 13:28	50
Chloromethane	<19		61	19	ug/Kg	☼	05/01/17 10:35	05/15/17 13:28	50
cis-1,2-Dichloroethene	<25 *		61	25	ug/Kg	☼	05/01/17 10:35	05/15/17 13:28	50
cis-1,3-Dichloropropene	<25		61	25	ug/Kg	☼	05/01/17 10:35	05/15/17 13:28	50
Dibromochloromethane	<30		61	30	ug/Kg	☼	05/01/17 10:35	05/15/17 13:28	50
Dibromomethane	<16		61	16	ug/Kg	☼	05/01/17 10:35	05/15/17 13:28	50
Dichlorodifluoromethane	<41		120	41	ug/Kg	☼	05/01/17 10:35	05/15/17 13:28	50
Ethylbenzene	<11		15	11	ug/Kg	☼	05/01/17 10:35	05/15/17 13:28	50
Hexachlorobutadiene	<27		61	27	ug/Kg	☼	05/01/17 10:35	05/15/17 13:28	50
Isopropyl ether	<17		61	17	ug/Kg	☼	05/01/17 10:35	05/15/17 13:28	50
Isopropylbenzene	<23		61	23	ug/Kg	☼	05/01/17 10:35	05/15/17 13:28	50
Methyl tert-butyl ether	<24 *		61	24	ug/Kg	☼	05/01/17 10:35	05/15/17 13:28	50
Methylene Chloride	<99 *		300	99	ug/Kg	☼	05/01/17 10:35	05/15/17 13:28	50
Naphthalene	<20 *		61	20	ug/Kg	☼	05/01/17 10:35	05/15/17 13:28	50
n-Butylbenzene	<24		61	24	ug/Kg	☼	05/01/17 10:35	05/15/17 13:28	50
N-Propylbenzene	<25		61	25	ug/Kg	☼	05/01/17 10:35	05/15/17 13:28	50
p-Isopropyltoluene	<22		61	22	ug/Kg	☼	05/01/17 10:35	05/15/17 13:28	50
sec-Butylbenzene	<24		61	24	ug/Kg	☼	05/01/17 10:35	05/15/17 13:28	50
Styrene	<23 *		61	23	ug/Kg	☼	05/01/17 10:35	05/15/17 13:28	50
tert-Butylbenzene	<24		61	24	ug/Kg	☼	05/01/17 10:35	05/15/17 13:28	50
Tetrachloroethene	<22		61	22	ug/Kg	☼	05/01/17 10:35	05/15/17 13:28	50
Toluene	<8.9		15	8.9	ug/Kg	☼	05/01/17 10:35	05/15/17 13:28	50
trans-1,2-Dichloroethene	<21 *		61	21	ug/Kg	☼	05/01/17 10:35	05/15/17 13:28	50
trans-1,3-Dichloropropene	<22		61	22	ug/Kg	☼	05/01/17 10:35	05/15/17 13:28	50
Trichloroethene	<10		30	10	ug/Kg	☼	05/01/17 10:35	05/15/17 13:28	50
Trichlorofluoromethane	<26 *		61	26	ug/Kg	☼	05/01/17 10:35	05/15/17 13:28	50

TestAmerica Chicago

Client Sample Results

Client: TRC Environmental Corporation.
Project/Site: STH 11 Kentucky to Kearney - 275788

TestAmerica Job ID: 500-127505-1

Client Sample ID: GP-04 (2-4)

Date Collected: 05/01/17 10:35

Date Received: 05/03/17 09:00

Lab Sample ID: 500-127505-8

Matrix: Solid

Percent Solids: 89.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	<16	*	30	16	ug/Kg	☼	05/01/17 10:35	05/15/17 13:28	50
Xylenes, Total	<13		30	13	ug/Kg	☼	05/01/17 10:35	05/15/17 13:28	50
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	98		75 - 126				05/01/17 10:35	05/15/17 13:28	50
4-Bromofluorobenzene (Surr)	92		72 - 124				05/01/17 10:35	05/15/17 13:28	50
Dibromofluoromethane	99		75 - 120				05/01/17 10:35	05/15/17 13:28	50
Toluene-d8 (Surr)	94		75 - 120				05/01/17 10:35	05/15/17 13:28	50

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	9.4		0.50	0.23	mg/Kg	☼	05/05/17 15:07	05/11/17 21:56	1

Client Sample ID: GP-04 (6-8)

Date Collected: 05/01/17 10:40

Date Received: 05/03/17 09:00

Lab Sample ID: 500-127505-9

Matrix: Solid

Percent Solids: 85.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<30		66	30	ug/Kg	☼	05/01/17 10:40	05/15/17 13:58	50
1,1,1-Trichloroethane	<25		66	25	ug/Kg	☼	05/01/17 10:40	05/15/17 13:58	50
1,1,2,2-Tetrachloroethane	<26		66	26	ug/Kg	☼	05/01/17 10:40	05/15/17 13:58	50
1,1,2-Trichloroethane	<23		66	23	ug/Kg	☼	05/01/17 10:40	05/15/17 13:58	50
1,1-Dichloroethane	<27	*	66	27	ug/Kg	☼	05/01/17 10:40	05/15/17 13:58	50
1,1-Dichloroethene	<26	*	66	26	ug/Kg	☼	05/01/17 10:40	05/15/17 13:58	50
1,1-Dichloropropene	<20		66	20	ug/Kg	☼	05/01/17 10:40	05/15/17 13:58	50
1,2,3-Trichlorobenzene	<30		66	30	ug/Kg	☼	05/01/17 10:40	05/15/17 13:58	50
1,2,3-Trichloropropane	<27		66	27	ug/Kg	☼	05/01/17 10:40	05/15/17 13:58	50
1,2,4-Trichlorobenzene	<22		66	22	ug/Kg	☼	05/01/17 10:40	05/15/17 13:58	50
1,2,4-Trimethylbenzene	<23		66	23	ug/Kg	☼	05/01/17 10:40	05/15/17 13:58	50
1,2-Dibromo-3-Chloropropane	<130		330	130	ug/Kg	☼	05/01/17 10:40	05/15/17 13:58	50
1,2-Dibromoethane	<25		66	25	ug/Kg	☼	05/01/17 10:40	05/15/17 13:58	50
1,2-Dichlorobenzene	<22		66	22	ug/Kg	☼	05/01/17 10:40	05/15/17 13:58	50
1,2-Dichloroethane	<26		66	26	ug/Kg	☼	05/01/17 10:40	05/15/17 13:58	50
1,2-Dichloropropane	<28		66	28	ug/Kg	☼	05/01/17 10:40	05/15/17 13:58	50
1,3,5-Trimethylbenzene	<25		66	25	ug/Kg	☼	05/01/17 10:40	05/15/17 13:58	50
1,3-Dichlorobenzene	<26		66	26	ug/Kg	☼	05/01/17 10:40	05/15/17 13:58	50
1,3-Dichloropropane	<24		66	24	ug/Kg	☼	05/01/17 10:40	05/15/17 13:58	50
1,4-Dichlorobenzene	<24		66	24	ug/Kg	☼	05/01/17 10:40	05/15/17 13:58	50
2,2-Dichloropropane	<29		66	29	ug/Kg	☼	05/01/17 10:40	05/15/17 13:58	50
2-Chlorotoluene	<21		66	21	ug/Kg	☼	05/01/17 10:40	05/15/17 13:58	50
4-Chlorotoluene	<23		66	23	ug/Kg	☼	05/01/17 10:40	05/15/17 13:58	50
Benzene	<9.6		16	9.6	ug/Kg	☼	05/01/17 10:40	05/15/17 13:58	50
Bromobenzene	<23		66	23	ug/Kg	☼	05/01/17 10:40	05/15/17 13:58	50
Bromochloromethane	<28	*	66	28	ug/Kg	☼	05/01/17 10:40	05/15/17 13:58	50
Bromodichloromethane	<24		66	24	ug/Kg	☼	05/01/17 10:40	05/15/17 13:58	50
Bromoform	<32		66	32	ug/Kg	☼	05/01/17 10:40	05/15/17 13:58	50
Bromomethane	<52		130	52	ug/Kg	☼	05/01/17 10:40	05/15/17 13:58	50
Carbon tetrachloride	<25		66	25	ug/Kg	☼	05/01/17 10:40	05/15/17 13:58	50
Chlorobenzene	<25		66	25	ug/Kg	☼	05/01/17 10:40	05/15/17 13:58	50

TestAmerica Chicago

Client Sample Results

Client: TRC Environmental Corporation.
Project/Site: STH 11 Kentucky to Kearney - 275788

TestAmerica Job ID: 500-127505-1

Client Sample ID: GP-04 (6-8)

Lab Sample ID: 500-127505-9

Date Collected: 05/01/17 10:40

Matrix: Solid

Date Received: 05/03/17 09:00

Percent Solids: 85.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloroethane	<33		66	33	ug/Kg	☼	05/01/17 10:40	05/15/17 13:58	50
Chloroform	<24	*	130	24	ug/Kg	☼	05/01/17 10:40	05/15/17 13:58	50
Chloromethane	<21		66	21	ug/Kg	☼	05/01/17 10:40	05/15/17 13:58	50
cis-1,2-Dichloroethene	<27	*	66	27	ug/Kg	☼	05/01/17 10:40	05/15/17 13:58	50
cis-1,3-Dichloropropene	<27		66	27	ug/Kg	☼	05/01/17 10:40	05/15/17 13:58	50
Dibromochloromethane	<32		66	32	ug/Kg	☼	05/01/17 10:40	05/15/17 13:58	50
Dibromomethane	<18		66	18	ug/Kg	☼	05/01/17 10:40	05/15/17 13:58	50
Dichlorodifluoromethane	<44		130	44	ug/Kg	☼	05/01/17 10:40	05/15/17 13:58	50
Ethylbenzene	<12		16	12	ug/Kg	☼	05/01/17 10:40	05/15/17 13:58	50
Hexachlorobutadiene	<29		66	29	ug/Kg	☼	05/01/17 10:40	05/15/17 13:58	50
Isopropyl ether	<18		66	18	ug/Kg	☼	05/01/17 10:40	05/15/17 13:58	50
Isopropylbenzene	<25		66	25	ug/Kg	☼	05/01/17 10:40	05/15/17 13:58	50
Methyl tert-butyl ether	<26	*	66	26	ug/Kg	☼	05/01/17 10:40	05/15/17 13:58	50
Methylene Chloride	<110	*	330	110	ug/Kg	☼	05/01/17 10:40	05/15/17 13:58	50
Naphthalene	<22	*	66	22	ug/Kg	☼	05/01/17 10:40	05/15/17 13:58	50
n-Butylbenzene	<25		66	25	ug/Kg	☼	05/01/17 10:40	05/15/17 13:58	50
N-Propylbenzene	<27		66	27	ug/Kg	☼	05/01/17 10:40	05/15/17 13:58	50
p-Isopropyltoluene	<24		66	24	ug/Kg	☼	05/01/17 10:40	05/15/17 13:58	50
sec-Butylbenzene	<26		66	26	ug/Kg	☼	05/01/17 10:40	05/15/17 13:58	50
Styrene	<25	*	66	25	ug/Kg	☼	05/01/17 10:40	05/15/17 13:58	50
tert-Butylbenzene	<26		66	26	ug/Kg	☼	05/01/17 10:40	05/15/17 13:58	50
Tetrachloroethene	540		66	24	ug/Kg	☼	05/01/17 10:40	05/15/17 13:58	50
Toluene	<9.6		16	9.6	ug/Kg	☼	05/01/17 10:40	05/15/17 13:58	50
trans-1,2-Dichloroethene	<23	*	66	23	ug/Kg	☼	05/01/17 10:40	05/15/17 13:58	50
trans-1,3-Dichloropropene	<24		66	24	ug/Kg	☼	05/01/17 10:40	05/15/17 13:58	50
Trichloroethene	<11		33	11	ug/Kg	☼	05/01/17 10:40	05/15/17 13:58	50
Trichlorofluoromethane	<28	*	66	28	ug/Kg	☼	05/01/17 10:40	05/15/17 13:58	50
Vinyl chloride	<17	*	33	17	ug/Kg	☼	05/01/17 10:40	05/15/17 13:58	50
Xylenes, Total	<14		33	14	ug/Kg	☼	05/01/17 10:40	05/15/17 13:58	50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	100		75 - 126	05/01/17 10:40	05/15/17 13:58	50
4-Bromofluorobenzene (Surr)	93		72 - 124	05/01/17 10:40	05/15/17 13:58	50
Dibromofluoromethane	102		75 - 120	05/01/17 10:40	05/15/17 13:58	50
Toluene-d8 (Surr)	94		75 - 120	05/01/17 10:40	05/15/17 13:58	50

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	11		0.53	0.24	mg/Kg	☼	05/05/17 15:07	05/11/17 22:01	1

Client Sample ID: GP-05 (2-4)

Lab Sample ID: 500-127505-10

Date Collected: 05/01/17 11:00

Matrix: Solid

Date Received: 05/03/17 09:00

Percent Solids: 82.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<33		71	33	ug/Kg	☼	05/01/17 11:00	05/15/17 14:27	50
1,1,1-Trichloroethane	<27		71	27	ug/Kg	☼	05/01/17 11:00	05/15/17 14:27	50
1,1,2,2-Tetrachloroethane	<28		71	28	ug/Kg	☼	05/01/17 11:00	05/15/17 14:27	50
1,1,2-Trichloroethane	<25		71	25	ug/Kg	☼	05/01/17 11:00	05/15/17 14:27	50

TestAmerica Chicago

Client Sample Results

Client: TRC Environmental Corporation.
 Project/Site: STH 11 Kentucky to Kearney - 275788

TestAmerica Job ID: 500-127505-1

Client Sample ID: GP-05 (2-4)

Lab Sample ID: 500-127505-10

Date Collected: 05/01/17 11:00

Matrix: Solid

Date Received: 05/03/17 09:00

Percent Solids: 82.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethane	<29	*	71	29	ug/Kg	☼	05/01/17 11:00	05/15/17 14:27	50
1,1-Dichloroethene	<28	*	71	28	ug/Kg	☼	05/01/17 11:00	05/15/17 14:27	50
1,1-Dichloropropene	<21		71	21	ug/Kg	☼	05/01/17 11:00	05/15/17 14:27	50
1,2,3-Trichlorobenzene	<33		71	33	ug/Kg	☼	05/01/17 11:00	05/15/17 14:27	50
1,2,3-Trichloropropane	<29		71	29	ug/Kg	☼	05/01/17 11:00	05/15/17 14:27	50
1,2,4-Trichlorobenzene	<24		71	24	ug/Kg	☼	05/01/17 11:00	05/15/17 14:27	50
1,2,4-Trimethylbenzene	<26		71	26	ug/Kg	☼	05/01/17 11:00	05/15/17 14:27	50
1,2-Dibromo-3-Chloropropane	<140		360	140	ug/Kg	☼	05/01/17 11:00	05/15/17 14:27	50
1,2-Dibromoethane	<28		71	28	ug/Kg	☼	05/01/17 11:00	05/15/17 14:27	50
1,2-Dichlorobenzene	<24		71	24	ug/Kg	☼	05/01/17 11:00	05/15/17 14:27	50
1,2-Dichloroethane	<28		71	28	ug/Kg	☼	05/01/17 11:00	05/15/17 14:27	50
1,2-Dichloropropane	<30		71	30	ug/Kg	☼	05/01/17 11:00	05/15/17 14:27	50
1,3,5-Trimethylbenzene	<27		71	27	ug/Kg	☼	05/01/17 11:00	05/15/17 14:27	50
1,3-Dichlorobenzene	<29		71	29	ug/Kg	☼	05/01/17 11:00	05/15/17 14:27	50
1,3-Dichloropropane	<26		71	26	ug/Kg	☼	05/01/17 11:00	05/15/17 14:27	50
1,4-Dichlorobenzene	<26		71	26	ug/Kg	☼	05/01/17 11:00	05/15/17 14:27	50
2,2-Dichloropropane	<32		71	32	ug/Kg	☼	05/01/17 11:00	05/15/17 14:27	50
2-Chlorotoluene	<22		71	22	ug/Kg	☼	05/01/17 11:00	05/15/17 14:27	50
4-Chlorotoluene	<25		71	25	ug/Kg	☼	05/01/17 11:00	05/15/17 14:27	50
Benzene	<10		18	10	ug/Kg	☼	05/01/17 11:00	05/15/17 14:27	50
Bromobenzene	<25		71	25	ug/Kg	☼	05/01/17 11:00	05/15/17 14:27	50
Bromochloromethane	<30	*	71	30	ug/Kg	☼	05/01/17 11:00	05/15/17 14:27	50
Bromodichloromethane	<27		71	27	ug/Kg	☼	05/01/17 11:00	05/15/17 14:27	50
Bromoform	<34		71	34	ug/Kg	☼	05/01/17 11:00	05/15/17 14:27	50
Bromomethane	<57		140	57	ug/Kg	☼	05/01/17 11:00	05/15/17 14:27	50
Carbon tetrachloride	<27		71	27	ug/Kg	☼	05/01/17 11:00	05/15/17 14:27	50
Chlorobenzene	<28		71	28	ug/Kg	☼	05/01/17 11:00	05/15/17 14:27	50
Chloroethane	<36		71	36	ug/Kg	☼	05/01/17 11:00	05/15/17 14:27	50
Chloroform	<26	*	140	26	ug/Kg	☼	05/01/17 11:00	05/15/17 14:27	50
Chloromethane	<23		71	23	ug/Kg	☼	05/01/17 11:00	05/15/17 14:27	50
cis-1,2-Dichloroethene	<29	*	71	29	ug/Kg	☼	05/01/17 11:00	05/15/17 14:27	50
cis-1,3-Dichloropropane	<30		71	30	ug/Kg	☼	05/01/17 11:00	05/15/17 14:27	50
Dibromochloromethane	<35		71	35	ug/Kg	☼	05/01/17 11:00	05/15/17 14:27	50
Dibromomethane	<19		71	19	ug/Kg	☼	05/01/17 11:00	05/15/17 14:27	50
Dichlorodifluoromethane	<48		140	48	ug/Kg	☼	05/01/17 11:00	05/15/17 14:27	50
Ethylbenzene	<13		18	13	ug/Kg	☼	05/01/17 11:00	05/15/17 14:27	50
Hexachlorobutadiene	<32		71	32	ug/Kg	☼	05/01/17 11:00	05/15/17 14:27	50
Isopropyl ether	<20		71	20	ug/Kg	☼	05/01/17 11:00	05/15/17 14:27	50
Isopropylbenzene	<27		71	27	ug/Kg	☼	05/01/17 11:00	05/15/17 14:27	50
Methyl tert-butyl ether	<28	*	71	28	ug/Kg	☼	05/01/17 11:00	05/15/17 14:27	50
Methylene Chloride	<120	*	360	120	ug/Kg	☼	05/01/17 11:00	05/15/17 14:27	50
Naphthalene	<24	*	71	24	ug/Kg	☼	05/01/17 11:00	05/15/17 14:27	50
n-Butylbenzene	<28		71	28	ug/Kg	☼	05/01/17 11:00	05/15/17 14:27	50
N-Propylbenzene	<29		71	29	ug/Kg	☼	05/01/17 11:00	05/15/17 14:27	50
p-Isopropyltoluene	<26		71	26	ug/Kg	☼	05/01/17 11:00	05/15/17 14:27	50
sec-Butylbenzene	<28		71	28	ug/Kg	☼	05/01/17 11:00	05/15/17 14:27	50
Styrene	<28	*	71	28	ug/Kg	☼	05/01/17 11:00	05/15/17 14:27	50
tert-Butylbenzene	<28		71	28	ug/Kg	☼	05/01/17 11:00	05/15/17 14:27	50
Tetrachloroethene	<26		71	26	ug/Kg	☼	05/01/17 11:00	05/15/17 14:27	50

TestAmerica Chicago

Client Sample Results

Client: TRC Environmental Corporation.
Project/Site: STH 11 Kentucky to Kearney - 275788

TestAmerica Job ID: 500-127505-1

Client Sample ID: GP-05 (2-4)

Lab Sample ID: 500-127505-10

Date Collected: 05/01/17 11:00

Matrix: Solid

Date Received: 05/03/17 09:00

Percent Solids: 82.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toluene	<10		18	10	ug/Kg	☼	05/01/17 11:00	05/15/17 14:27	50
trans-1,2-Dichloroethene	<25	*	71	25	ug/Kg	☼	05/01/17 11:00	05/15/17 14:27	50
trans-1,3-Dichloropropene	<26		71	26	ug/Kg	☼	05/01/17 11:00	05/15/17 14:27	50
Trichloroethene	<12		36	12	ug/Kg	☼	05/01/17 11:00	05/15/17 14:27	50
Trichlorofluoromethane	<30	*	71	30	ug/Kg	☼	05/01/17 11:00	05/15/17 14:27	50
Vinyl chloride	<19	*	36	19	ug/Kg	☼	05/01/17 11:00	05/15/17 14:27	50
Xylenes, Total	<16		36	16	ug/Kg	☼	05/01/17 11:00	05/15/17 14:27	50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	98		75 - 126	05/01/17 11:00	05/15/17 14:27	50
4-Bromofluorobenzene (Surr)	90		72 - 124	05/01/17 11:00	05/15/17 14:27	50
Dibromofluoromethane	100		75 - 120	05/01/17 11:00	05/15/17 14:27	50
Toluene-d8 (Surr)	94		75 - 120	05/01/17 11:00	05/15/17 14:27	50

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	20		0.52	0.24	mg/Kg	☼	05/05/17 15:07	05/11/17 22:05	1

Client Sample ID: GP-05 (6-8)

Lab Sample ID: 500-127505-11

Date Collected: 05/01/17 11:10

Matrix: Solid

Date Received: 05/03/17 09:00

Percent Solids: 86.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<31		66	31	ug/Kg	☼	05/01/17 11:10	05/15/17 14:56	50
1,1,1-Trichloroethane	<25		66	25	ug/Kg	☼	05/01/17 11:10	05/15/17 14:56	50
1,1,1,2,2-Tetrachloroethane	<26		66	26	ug/Kg	☼	05/01/17 11:10	05/15/17 14:56	50
1,1,2-Trichloroethane	<23		66	23	ug/Kg	☼	05/01/17 11:10	05/15/17 14:56	50
1,1-Dichloroethane	<27	*	66	27	ug/Kg	☼	05/01/17 11:10	05/15/17 14:56	50
1,1-Dichloroethene	<26	*	66	26	ug/Kg	☼	05/01/17 11:10	05/15/17 14:56	50
1,1-Dichloropropene	<20		66	20	ug/Kg	☼	05/01/17 11:10	05/15/17 14:56	50
1,2,3-Trichlorobenzene	<30		66	30	ug/Kg	☼	05/01/17 11:10	05/15/17 14:56	50
1,2,3-Trichloropropane	<27		66	27	ug/Kg	☼	05/01/17 11:10	05/15/17 14:56	50
1,2,4-Trichlorobenzene	<23		66	23	ug/Kg	☼	05/01/17 11:10	05/15/17 14:56	50
1,2,4-Trimethylbenzene	<24		66	24	ug/Kg	☼	05/01/17 11:10	05/15/17 14:56	50
1,2-Dibromo-3-Chloropropane	<130		330	130	ug/Kg	☼	05/01/17 11:10	05/15/17 14:56	50
1,2-Dibromoethane	<26		66	26	ug/Kg	☼	05/01/17 11:10	05/15/17 14:56	50
1,2-Dichlorobenzene	<22		66	22	ug/Kg	☼	05/01/17 11:10	05/15/17 14:56	50
1,2-Dichloroethane	<26		66	26	ug/Kg	☼	05/01/17 11:10	05/15/17 14:56	50
1,2-Dichloropropane	<28		66	28	ug/Kg	☼	05/01/17 11:10	05/15/17 14:56	50
1,3,5-Trimethylbenzene	<25		66	25	ug/Kg	☼	05/01/17 11:10	05/15/17 14:56	50
1,3-Dichlorobenzene	<27		66	27	ug/Kg	☼	05/01/17 11:10	05/15/17 14:56	50
1,3-Dichloropropane	<24		66	24	ug/Kg	☼	05/01/17 11:10	05/15/17 14:56	50
1,4-Dichlorobenzene	<24		66	24	ug/Kg	☼	05/01/17 11:10	05/15/17 14:56	50
2,2-Dichloropropane	<29		66	29	ug/Kg	☼	05/01/17 11:10	05/15/17 14:56	50
2-Chlorotoluene	<21		66	21	ug/Kg	☼	05/01/17 11:10	05/15/17 14:56	50
4-Chlorotoluene	<23		66	23	ug/Kg	☼	05/01/17 11:10	05/15/17 14:56	50
Benzene	<9.7		17	9.7	ug/Kg	☼	05/01/17 11:10	05/15/17 14:56	50
Bromobenzene	<24		66	24	ug/Kg	☼	05/01/17 11:10	05/15/17 14:56	50
Bromochloromethane	<28	*	66	28	ug/Kg	☼	05/01/17 11:10	05/15/17 14:56	50

TestAmerica Chicago

Client Sample Results

Client: TRC Environmental Corporation.
Project/Site: STH 11 Kentucky to Kearney - 275788

TestAmerica Job ID: 500-127505-1

Client Sample ID: GP-05 (6-8)

Lab Sample ID: 500-127505-11

Date Collected: 05/01/17 11:10

Matrix: Solid

Date Received: 05/03/17 09:00

Percent Solids: 86.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromodichloromethane	<25		66	25	ug/Kg	☼	05/01/17 11:10	05/15/17 14:56	50
Bromoform	<32		66	32	ug/Kg	☼	05/01/17 11:10	05/15/17 14:56	50
Bromomethane	<53		130	53	ug/Kg	☼	05/01/17 11:10	05/15/17 14:56	50
Carbon tetrachloride	<25		66	25	ug/Kg	☼	05/01/17 11:10	05/15/17 14:56	50
Chlorobenzene	<26		66	26	ug/Kg	☼	05/01/17 11:10	05/15/17 14:56	50
Chloroethane	<33		66	33	ug/Kg	☼	05/01/17 11:10	05/15/17 14:56	50
Chloroform	<25 *		130	25	ug/Kg	☼	05/01/17 11:10	05/15/17 14:56	50
Chloromethane	<21		66	21	ug/Kg	☼	05/01/17 11:10	05/15/17 14:56	50
cis-1,2-Dichloroethene	<27 *		66	27	ug/Kg	☼	05/01/17 11:10	05/15/17 14:56	50
cis-1,3-Dichloropropene	<28		66	28	ug/Kg	☼	05/01/17 11:10	05/15/17 14:56	50
Dibromochloromethane	<32		66	32	ug/Kg	☼	05/01/17 11:10	05/15/17 14:56	50
Dibromomethane	<18		66	18	ug/Kg	☼	05/01/17 11:10	05/15/17 14:56	50
Dichlorodifluoromethane	<45		130	45	ug/Kg	☼	05/01/17 11:10	05/15/17 14:56	50
Ethylbenzene	<12		17	12	ug/Kg	☼	05/01/17 11:10	05/15/17 14:56	50
Hexachlorobutadiene	<30		66	30	ug/Kg	☼	05/01/17 11:10	05/15/17 14:56	50
Isopropyl ether	<18		66	18	ug/Kg	☼	05/01/17 11:10	05/15/17 14:56	50
Isopropylbenzene	<25		66	25	ug/Kg	☼	05/01/17 11:10	05/15/17 14:56	50
Methyl tert-butyl ether	<26 *		66	26	ug/Kg	☼	05/01/17 11:10	05/15/17 14:56	50
Methylene Chloride	<110 *		330	110	ug/Kg	☼	05/01/17 11:10	05/15/17 14:56	50
Naphthalene	<22 *		66	22	ug/Kg	☼	05/01/17 11:10	05/15/17 14:56	50
n-Butylbenzene	<26		66	26	ug/Kg	☼	05/01/17 11:10	05/15/17 14:56	50
N-Propylbenzene	<27		66	27	ug/Kg	☼	05/01/17 11:10	05/15/17 14:56	50
p-Isopropyltoluene	<24		66	24	ug/Kg	☼	05/01/17 11:10	05/15/17 14:56	50
sec-Butylbenzene	<26		66	26	ug/Kg	☼	05/01/17 11:10	05/15/17 14:56	50
Styrene	<26 *		66	26	ug/Kg	☼	05/01/17 11:10	05/15/17 14:56	50
tert-Butylbenzene	<26		66	26	ug/Kg	☼	05/01/17 11:10	05/15/17 14:56	50
Tetrachloroethene	<25		66	25	ug/Kg	☼	05/01/17 11:10	05/15/17 14:56	50
Toluene	<9.7		17	9.7	ug/Kg	☼	05/01/17 11:10	05/15/17 14:56	50
trans-1,2-Dichloroethene	<23 *		66	23	ug/Kg	☼	05/01/17 11:10	05/15/17 14:56	50
trans-1,3-Dichloropropene	<24		66	24	ug/Kg	☼	05/01/17 11:10	05/15/17 14:56	50
Trichloroethene	<11		33	11	ug/Kg	☼	05/01/17 11:10	05/15/17 14:56	50
Trichlorofluoromethane	<28 *		66	28	ug/Kg	☼	05/01/17 11:10	05/15/17 14:56	50
Vinyl chloride	<17 *		33	17	ug/Kg	☼	05/01/17 11:10	05/15/17 14:56	50
Xylenes, Total	<15		33	15	ug/Kg	☼	05/01/17 11:10	05/15/17 14:56	50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	97		75 - 126	05/01/17 11:10	05/15/17 14:56	50
4-Bromofluorobenzene (Surr)	92		72 - 124	05/01/17 11:10	05/15/17 14:56	50
Dibromofluoromethane	99		75 - 120	05/01/17 11:10	05/15/17 14:56	50
Toluene-d8 (Surr)	95		75 - 120	05/01/17 11:10	05/15/17 14:56	50

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	<0.010		0.020	0.010	mg/L			05/09/17 00:42	20
1,2-Dichloroethane	<0.010		0.020	0.010	mg/L			05/09/17 00:42	20
Benzene	<0.010		0.020	0.010	mg/L			05/09/17 00:42	20
Carbon tetrachloride	<0.010		0.020	0.010	mg/L			05/09/17 00:42	20
Chlorobenzene	<0.010		0.020	0.010	mg/L			05/09/17 00:42	20
Chloroform	<0.020		0.040	0.020	mg/L			05/09/17 00:42	20
Methyl Ethyl Ketone	<0.050		0.10	0.050	mg/L			05/09/17 00:42	20

TestAmerica Chicago

Client Sample Results

Client: TRC Environmental Corporation.
Project/Site: STH 11 Kentucky to Kearney - 275788

TestAmerica Job ID: 500-127505-1

Client Sample ID: GP-05 (6-8)

Lab Sample ID: 500-127505-11

Date Collected: 05/01/17 11:10

Matrix: Solid

Date Received: 05/03/17 09:00

Percent Solids: 86.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	<0.010		0.020	0.010	mg/L			05/09/17 00:42	20
Trichloroethene	<0.010		0.020	0.010	mg/L			05/09/17 00:42	20
Vinyl chloride	<0.010		0.020	0.010	mg/L			05/09/17 00:42	20

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	103		75 - 126		05/09/17 00:42	20
4-Bromofluorobenzene (Surr)	110		72 - 124		05/09/17 00:42	20
Dibromofluoromethane	89		75 - 120		05/09/17 00:42	20
Toluene-d8 (Surr)	101		75 - 120		05/09/17 00:42	20

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	<0.020		0.020	0.020	mg/L		05/08/17 07:42	05/08/17 15:28	1
2,4,5-Trichlorophenol	<0.10		0.10	0.10	mg/L		05/08/17 07:42	05/08/17 15:28	1
2,4,6-Trichlorophenol	<0.050		0.050	0.050	mg/L		05/08/17 07:42	05/08/17 15:28	1
2,4-Dinitrotoluene	<0.010		0.010	0.010	mg/L		05/08/17 07:42	05/08/17 15:28	1
2-Methylphenol	<0.020		0.020	0.020	mg/L		05/08/17 07:42	05/08/17 15:28	1
3 & 4 Methylphenol	<0.020		0.020	0.020	mg/L		05/08/17 07:42	05/08/17 15:28	1
Hexachlorobenzene	<0.0050		0.0050	0.0050	mg/L		05/08/17 07:42	05/08/17 15:28	1
Hexachlorobutadiene	<0.050		0.050	0.050	mg/L		05/08/17 07:42	05/08/17 15:28	1
Hexachloroethane	<0.050		0.050	0.050	mg/L		05/08/17 07:42	05/08/17 15:28	1
Nitrobenzene	<0.010		0.010	0.010	mg/L		05/08/17 07:42	05/08/17 15:28	1
Pentachlorophenol	<0.20		0.20	0.20	mg/L		05/08/17 07:42	05/08/17 15:28	1
Pyridine	<0.20		0.20	0.20	mg/L		05/08/17 07:42	05/08/17 15:28	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	90		40 - 145	05/08/17 07:42	05/08/17 15:28	1
2-Fluorobiphenyl	86		34 - 110	05/08/17 07:42	05/08/17 15:28	1
2-Fluorophenol (Surr)	59		27 - 110	05/08/17 07:42	05/08/17 15:28	1
Nitrobenzene-d5 (Surr)	95		36 - 120	05/08/17 07:42	05/08/17 15:28	1
Phenol-d5 (Surr)	42		20 - 100	05/08/17 07:42	05/08/17 15:28	1
Terphenyl-d14 (Surr)	104		40 - 145	05/08/17 07:42	05/08/17 15:28	1

Method: WI-GRO - Wisconsin - Gasoline Range Organics (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
WI Gasoline Range Organics (C5-C10)	<660		2000	660	ug/Kg	☼	05/01/17 11:10	05/07/17 21:31	50

Method: 8082A - 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	☼	05/09/17 16:38	05/10/17 13:35	1
PCB-1221	<8.2		19	8.2	ug/Kg	☼	05/09/17 16:38	05/10/17 13:35	1
PCB-1232	<8.1		19	8.1	ug/Kg	☼	05/09/17 16:38	05/10/17 13:35	1
PCB-1242	<6.1		19	6.1	ug/Kg	☼	05/09/17 16:38	05/10/17 13:35	1
PCB-1248	<7.3		19	7.3	ug/Kg	☼	05/09/17 16:38	05/10/17 13:35	1
PCB-1254	<4.0		19	4.0	ug/Kg	☼	05/09/17 16:38	05/10/17 13:35	1
PCB-1260	<9.1		19	9.1	ug/Kg	☼	05/09/17 16:38	05/10/17 13:35	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	61		49 - 129	05/09/17 16:38	05/10/17 13:35	1
DCB Decachlorobiphenyl	62		37 - 121	05/09/17 16:38	05/10/17 13:35	1

TestAmerica Chicago

Client Sample Results

Client: TRC Environmental Corporation.
Project/Site: STH 11 Kentucky to Kearney - 275788

TestAmerica Job ID: 500-127505-1

Client Sample ID: GP-05 (6-8)

Lab Sample ID: 500-127505-11

Date Collected: 05/01/17 11:10

Matrix: Solid

Date Received: 05/03/17 09:00

Percent Solids: 86.3

Method: WI-DRO - Wisconsin - Diesel Range Organics (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
WI Diesel Range Organics (C10-C28)	<1.8		4.6	1.8	mg/Kg	☼	05/04/17 11:15	05/05/17 15:38	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
n-Nonane	69		44 - 148				05/04/17 11:15	05/05/17 15:38	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	9.6		0.52	0.24	mg/Kg	☼	05/05/17 15:07	05/11/17 22:09	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.010		0.050	0.010	mg/L		05/08/17 08:10	05/08/17 21:40	1
Barium	0.34	J	0.50	0.050	mg/L		05/08/17 08:10	05/08/17 21:40	1
Cadmium	0.0020	J	0.0050	0.0020	mg/L		05/08/17 08:10	05/08/17 21:40	1
Chromium	<0.010		0.025	0.010	mg/L		05/08/17 08:10	05/08/17 21:40	1
Copper	<0.010		0.025	0.010	mg/L		05/08/17 08:10	05/08/17 21:40	1
Lead	0.014	J	0.050	0.0075	mg/L		05/08/17 08:10	05/08/17 21:40	1
Nickel	0.014	J	0.025	0.010	mg/L		05/08/17 08:10	05/08/17 21:40	1
Selenium	<0.020		0.050	0.020	mg/L		05/08/17 08:10	05/08/17 21:40	1
Silver	<0.010		0.025	0.010	mg/L		05/08/17 08:10	05/08/17 21:40	1
Zinc	<0.020		0.10	0.020	mg/L		05/08/17 08:10	05/08/17 21:40	1

Method: 7470A - Mercury (CVAA) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		05/08/17 13:40	05/09/17 10:12	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Flashpoint	>176		40.0	40.0	Degrees F			05/11/17 16:20	1
Cyanide, Total	<0.15		0.45	0.15	mg/Kg		05/10/17 12:50	05/10/17 15:36	1
Sulfide	6.7	J	9.8	4.6	mg/Kg		05/15/17 17:36	05/15/17 21:48	1
pH	9.0		0.2	0.2	SU			05/09/17 16:02	1
Paint Filter	PASS				No Unit			05/11/17 22:39	1
Specific Gravity	3.1404				NONE			05/12/17 22:07	1

Client Sample ID: GP-05 (14-16)

Lab Sample ID: 500-127505-12

Date Collected: 05/01/17 11:20

Matrix: Solid

Date Received: 05/03/17 09:00

Percent Solids: 87.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<30		64	30	ug/Kg	☼	05/01/17 11:20	05/15/17 15:25	50
1,1,1-Trichloroethane	<24		64	24	ug/Kg	☼	05/01/17 11:20	05/15/17 15:25	50
1,1,2,2-Tetrachloroethane	<26		64	26	ug/Kg	☼	05/01/17 11:20	05/15/17 15:25	50
1,1,2-Trichloroethane	<23		64	23	ug/Kg	☼	05/01/17 11:20	05/15/17 15:25	50
1,1-Dichloroethane	<26	*	64	26	ug/Kg	☼	05/01/17 11:20	05/15/17 15:25	50
1,1-Dichloroethene	<25	*	64	25	ug/Kg	☼	05/01/17 11:20	05/15/17 15:25	50
1,1-Dichloropropene	<19		64	19	ug/Kg	☼	05/01/17 11:20	05/15/17 15:25	50
1,2,3-Trichlorobenzene	<29		64	29	ug/Kg	☼	05/01/17 11:20	05/15/17 15:25	50
1,2,3-Trichloropropane	<27		64	27	ug/Kg	☼	05/01/17 11:20	05/15/17 15:25	50
1,2,4-Trichlorobenzene	<22		64	22	ug/Kg	☼	05/01/17 11:20	05/15/17 15:25	50

TestAmerica Chicago

Client Sample Results

Client: TRC Environmental Corporation.
Project/Site: STH 11 Kentucky to Kearney - 275788

TestAmerica Job ID: 500-127505-1

Client Sample ID: GP-05 (14-16)

Lab Sample ID: 500-127505-12

Date Collected: 05/01/17 11:20

Matrix: Solid

Date Received: 05/03/17 09:00

Percent Solids: 87.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trimethylbenzene	<23		64	23	ug/Kg	☼	05/01/17 11:20	05/15/17 15:25	50
1,2-Dibromo-3-Chloropropane	<130		320	130	ug/Kg	☼	05/01/17 11:20	05/15/17 15:25	50
1,2-Dibromoethane	<25		64	25	ug/Kg	☼	05/01/17 11:20	05/15/17 15:25	50
1,2-Dichlorobenzene	<21		64	21	ug/Kg	☼	05/01/17 11:20	05/15/17 15:25	50
1,2-Dichloroethane	<25		64	25	ug/Kg	☼	05/01/17 11:20	05/15/17 15:25	50
1,2-Dichloropropane	<27		64	27	ug/Kg	☼	05/01/17 11:20	05/15/17 15:25	50
1,3,5-Trimethylbenzene	<24		64	24	ug/Kg	☼	05/01/17 11:20	05/15/17 15:25	50
1,3-Dichlorobenzene	<26		64	26	ug/Kg	☼	05/01/17 11:20	05/15/17 15:25	50
1,3-Dichloropropane	<23		64	23	ug/Kg	☼	05/01/17 11:20	05/15/17 15:25	50
1,4-Dichlorobenzene	<23		64	23	ug/Kg	☼	05/01/17 11:20	05/15/17 15:25	50
2,2-Dichloropropane	<28		64	28	ug/Kg	☼	05/01/17 11:20	05/15/17 15:25	50
2-Chlorotoluene	<20		64	20	ug/Kg	☼	05/01/17 11:20	05/15/17 15:25	50
4-Chlorotoluene	<22		64	22	ug/Kg	☼	05/01/17 11:20	05/15/17 15:25	50
Benzene	<9.4		16	9.4	ug/Kg	☼	05/01/17 11:20	05/15/17 15:25	50
Bromobenzene	<23		64	23	ug/Kg	☼	05/01/17 11:20	05/15/17 15:25	50
Bromochloromethane	<27 *		64	27	ug/Kg	☼	05/01/17 11:20	05/15/17 15:25	50
Bromodichloromethane	<24		64	24	ug/Kg	☼	05/01/17 11:20	05/15/17 15:25	50
Bromoform	<31		64	31	ug/Kg	☼	05/01/17 11:20	05/15/17 15:25	50
Bromomethane	<51		130	51	ug/Kg	☼	05/01/17 11:20	05/15/17 15:25	50
Carbon tetrachloride	<25		64	25	ug/Kg	☼	05/01/17 11:20	05/15/17 15:25	50
Chlorobenzene	<25		64	25	ug/Kg	☼	05/01/17 11:20	05/15/17 15:25	50
Chloroethane	<32		64	32	ug/Kg	☼	05/01/17 11:20	05/15/17 15:25	50
Chloroform	<24 *		130	24	ug/Kg	☼	05/01/17 11:20	05/15/17 15:25	50
Chloromethane	<21		64	21	ug/Kg	☼	05/01/17 11:20	05/15/17 15:25	50
cis-1,2-Dichloroethene	<26 *		64	26	ug/Kg	☼	05/01/17 11:20	05/15/17 15:25	50
cis-1,3-Dichloropropene	<27		64	27	ug/Kg	☼	05/01/17 11:20	05/15/17 15:25	50
Dibromochloromethane	<31		64	31	ug/Kg	☼	05/01/17 11:20	05/15/17 15:25	50
Dibromomethane	<17		64	17	ug/Kg	☼	05/01/17 11:20	05/15/17 15:25	50
Dichlorodifluoromethane	<43		130	43	ug/Kg	☼	05/01/17 11:20	05/15/17 15:25	50
Ethylbenzene	<12		16	12	ug/Kg	☼	05/01/17 11:20	05/15/17 15:25	50
Hexachlorobutadiene	<29		64	29	ug/Kg	☼	05/01/17 11:20	05/15/17 15:25	50
Isopropyl ether	<18		64	18	ug/Kg	☼	05/01/17 11:20	05/15/17 15:25	50
Isopropylbenzene	<25		64	25	ug/Kg	☼	05/01/17 11:20	05/15/17 15:25	50
Methyl tert-butyl ether	<25 *		64	25	ug/Kg	☼	05/01/17 11:20	05/15/17 15:25	50
Methylene Chloride	<100 *		320	100	ug/Kg	☼	05/01/17 11:20	05/15/17 15:25	50
Naphthalene	<21 *		64	21	ug/Kg	☼	05/01/17 11:20	05/15/17 15:25	50
n-Butylbenzene	<25		64	25	ug/Kg	☼	05/01/17 11:20	05/15/17 15:25	50
N-Propylbenzene	<27		64	27	ug/Kg	☼	05/01/17 11:20	05/15/17 15:25	50
p-Isopropyltoluene	<23		64	23	ug/Kg	☼	05/01/17 11:20	05/15/17 15:25	50
sec-Butylbenzene	<26		64	26	ug/Kg	☼	05/01/17 11:20	05/15/17 15:25	50
Styrene	<25 *		64	25	ug/Kg	☼	05/01/17 11:20	05/15/17 15:25	50
tert-Butylbenzene	<26		64	26	ug/Kg	☼	05/01/17 11:20	05/15/17 15:25	50
Tetrachloroethene	<24		64	24	ug/Kg	☼	05/01/17 11:20	05/15/17 15:25	50
Toluene	<9.4		16	9.4	ug/Kg	☼	05/01/17 11:20	05/15/17 15:25	50
trans-1,2-Dichloroethene	<22 *		64	22	ug/Kg	☼	05/01/17 11:20	05/15/17 15:25	50
trans-1,3-Dichloropropene	<23		64	23	ug/Kg	☼	05/01/17 11:20	05/15/17 15:25	50
Trichloroethene	<11		32	11	ug/Kg	☼	05/01/17 11:20	05/15/17 15:25	50
Trichlorofluoromethane	<27 *		64	27	ug/Kg	☼	05/01/17 11:20	05/15/17 15:25	50
Vinyl chloride	<17 *		32	17	ug/Kg	☼	05/01/17 11:20	05/15/17 15:25	50

TestAmerica Chicago

Client Sample Results

Client: TRC Environmental Corporation.
Project/Site: STH 11 Kentucky to Kearney - 275788

TestAmerica Job ID: 500-127505-1

Client Sample ID: GP-05 (14-16)

Date Collected: 05/01/17 11:20

Date Received: 05/03/17 09:00

Lab Sample ID: 500-127505-12

Matrix: Solid

Percent Solids: 87.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Xylenes, Total	<14		32	14	ug/Kg	☼	05/01/17 11:20	05/15/17 15:25	50
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	98		75 - 126				05/01/17 11:20	05/15/17 15:25	50
4-Bromofluorobenzene (Surr)	92		72 - 124				05/01/17 11:20	05/15/17 15:25	50
Dibromofluoromethane	101		75 - 120				05/01/17 11:20	05/15/17 15:25	50
Toluene-d8 (Surr)	93		75 - 120				05/01/17 11:20	05/15/17 15:25	50

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	14		0.50	0.23	mg/Kg	☼	05/05/17 15:07	05/11/17 22:14	1

Client Sample ID: GP-06 (2-4)

Date Collected: 05/01/17 12:00

Date Received: 05/03/17 09:00

Lab Sample ID: 500-127505-13

Matrix: Solid

Percent Solids: 80.9

Method: WDNR - Wisconsin - Gasoline Range Organics (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<23		32	23	ug/Kg	☼	05/05/17 15:52	05/10/17 01:22	1
Ethylbenzene	<24		32	24	ug/Kg	☼	05/05/17 15:52	05/10/17 01:22	1
Methyl tert-butyl ether	<15		32	15	ug/Kg	☼	05/05/17 15:52	05/10/17 01:22	1
Naphthalene	<150		320	150	ug/Kg	☼	05/05/17 15:52	05/10/17 01:22	1
Toluene	<22		32	22	ug/Kg	☼	05/05/17 15:52	05/10/17 01:22	1
1,2,4-Trimethylbenzene	<19		32	19	ug/Kg	☼	05/05/17 15:52	05/10/17 01:22	1
1,3,5-Trimethylbenzene	<19		32	19	ug/Kg	☼	05/05/17 15:52	05/10/17 01:22	1
Xylenes, Total	<38		96	38	ug/Kg	☼	05/05/17 15:52	05/10/17 01:22	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	86		80 - 120				05/05/17 15:52	05/10/17 01:22	1

Client Sample ID: GP-06 (6-8)

Date Collected: 05/01/17 12:05

Date Received: 05/03/17 09:00

Lab Sample ID: 500-127505-14

Matrix: Solid

Percent Solids: 84.9

Method: WDNR - Wisconsin - Gasoline Range Organics (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<21		29	21	ug/Kg	☼	05/05/17 15:52	05/10/17 01:49	1
Ethylbenzene	<22		29	22	ug/Kg	☼	05/05/17 15:52	05/10/17 01:49	1
Methyl tert-butyl ether	<14		29	14	ug/Kg	☼	05/05/17 15:52	05/10/17 01:49	1
Naphthalene	<140		290	140	ug/Kg	☼	05/05/17 15:52	05/10/17 01:49	1
Toluene	<19		29	19	ug/Kg	☼	05/05/17 15:52	05/10/17 01:49	1
1,2,4-Trimethylbenzene	<17		29	17	ug/Kg	☼	05/05/17 15:52	05/10/17 01:49	1
1,3,5-Trimethylbenzene	<17		29	17	ug/Kg	☼	05/05/17 15:52	05/10/17 01:49	1
Xylenes, Total	<34		86	34	ug/Kg	☼	05/05/17 15:52	05/10/17 01:49	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	91		80 - 120				05/05/17 15:52	05/10/17 01:49	1

TestAmerica Chicago

Client Sample Results

Client: TRC Environmental Corporation.
Project/Site: STH 11 Kentucky to Kearney - 275788

TestAmerica Job ID: 500-127505-1

Client Sample ID: GP-07 (2-4)

Date Collected: 05/01/17 12:30

Date Received: 05/03/17 09:00

Lab Sample ID: 500-127505-15

Matrix: Solid

Percent Solids: 79.5

Method: WDNR - Wisconsin - Gasoline Range Organics (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<22		30	22	ug/Kg	☼	05/05/17 15:52	05/10/17 02:15	1
Ethylbenzene	<23		30	23	ug/Kg	☼	05/05/17 15:52	05/10/17 02:15	1
Methyl tert-butyl ether	<15		30	15	ug/Kg	☼	05/05/17 15:52	05/10/17 02:15	1
Naphthalene	<150		300	150	ug/Kg	☼	05/05/17 15:52	05/10/17 02:15	1
Toluene	<21		30	21	ug/Kg	☼	05/05/17 15:52	05/10/17 02:15	1
1,2,4-Trimethylbenzene	<18		30	18	ug/Kg	☼	05/05/17 15:52	05/10/17 02:15	1
1,3,5-Trimethylbenzene	<18		30	18	ug/Kg	☼	05/05/17 15:52	05/10/17 02:15	1
Xylenes, Total	<37		91	37	ug/Kg	☼	05/05/17 15:52	05/10/17 02:15	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>a,a,a-Trifluorotoluene</i>	88		80 - 120	05/05/17 15:52	05/10/17 02:15	1

Client Sample ID: GP-07 (6-8)

Date Collected: 05/01/17 12:35

Date Received: 05/03/17 09:00

Lab Sample ID: 500-127505-16

Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	<0.010		0.020	0.010	mg/L			05/09/17 01:09	20
1,2-Dichloroethane	<0.010		0.020	0.010	mg/L			05/09/17 01:09	20
Benzene	<0.010		0.020	0.010	mg/L			05/09/17 01:09	20
Carbon tetrachloride	<0.010		0.020	0.010	mg/L			05/09/17 01:09	20
Chlorobenzene	<0.010		0.020	0.010	mg/L			05/09/17 01:09	20
Chloroform	<0.020		0.040	0.020	mg/L			05/09/17 01:09	20
Methyl Ethyl Ketone	<0.050		0.10	0.050	mg/L			05/09/17 01:09	20
Tetrachloroethene	<0.010		0.020	0.010	mg/L			05/09/17 01:09	20
Trichloroethene	<0.010		0.020	0.010	mg/L			05/09/17 01:09	20
Vinyl chloride	<0.010		0.020	0.010	mg/L			05/09/17 01:09	20

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>1,2-Dichloroethane-d4 (Surr)</i>	104		75 - 126		05/09/17 01:09	20
<i>4-Bromofluorobenzene (Surr)</i>	108		72 - 124		05/09/17 01:09	20
<i>Dibromofluoromethane</i>	90		75 - 120		05/09/17 01:09	20
<i>Toluene-d8 (Surr)</i>	101		75 - 120		05/09/17 01:09	20

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	<0.020		0.020	0.020	mg/L		05/08/17 07:42	05/08/17 17:46	1
2,4,5-Trichlorophenol	<0.10		0.10	0.10	mg/L		05/08/17 07:42	05/08/17 17:46	1
2,4,6-Trichlorophenol	<0.050		0.050	0.050	mg/L		05/08/17 07:42	05/08/17 17:46	1
2,4-Dinitrotoluene	<0.010		0.010	0.010	mg/L		05/08/17 07:42	05/08/17 17:46	1
2-Methylphenol	<0.020		0.020	0.020	mg/L		05/08/17 07:42	05/08/17 17:46	1
3 & 4 Methylphenol	<0.020		0.020	0.020	mg/L		05/08/17 07:42	05/08/17 17:46	1
Hexachlorobenzene	<0.0050		0.0050	0.0050	mg/L		05/08/17 07:42	05/08/17 17:46	1
Hexachlorobutadiene	<0.050		0.050	0.050	mg/L		05/08/17 07:42	05/08/17 17:46	1
Hexachloroethane	<0.050		0.050	0.050	mg/L		05/08/17 07:42	05/08/17 17:46	1
Nitrobenzene	<0.010		0.010	0.010	mg/L		05/08/17 07:42	05/08/17 17:46	1
Pentachlorophenol	<0.20		0.20	0.20	mg/L		05/08/17 07:42	05/08/17 17:46	1
Pyridine	<0.20		0.20	0.20	mg/L		05/08/17 07:42	05/08/17 17:46	1

TestAmerica Chicago

Client Sample Results

Client: TRC Environmental Corporation.
Project/Site: STH 11 Kentucky to Kearney - 275788

TestAmerica Job ID: 500-127505-1

Client Sample ID: GP-07 (6-8)

Lab Sample ID: 500-127505-16

Date Collected: 05/01/17 12:35

Matrix: Solid

Date Received: 05/03/17 09:00

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	87		40 - 145	05/08/17 07:42	05/08/17 17:46	1
2-Fluorobiphenyl	87		34 - 110	05/08/17 07:42	05/08/17 17:46	1
2-Fluorophenol (Surr)	60		27 - 110	05/08/17 07:42	05/08/17 17:46	1
Nitrobenzene-d5 (Surr)	96		36 - 120	05/08/17 07:42	05/08/17 17:46	1
Phenol-d5 (Surr)	41		20 - 100	05/08/17 07:42	05/08/17 17:46	1
Terphenyl-d14 (Surr)	103		40 - 145	05/08/17 07:42	05/08/17 17:46	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.010		0.050	0.010	mg/L		05/08/17 08:10	05/08/17 21:45	1
Barium	0.38	J	0.50	0.050	mg/L		05/08/17 08:10	05/08/17 21:45	1
Cadmium	0.0027	J	0.0050	0.0020	mg/L		05/08/17 08:10	05/08/17 21:45	1
Chromium	<0.010		0.025	0.010	mg/L		05/08/17 08:10	05/08/17 21:45	1
Copper	<0.010		0.025	0.010	mg/L		05/08/17 08:10	05/08/17 21:45	1
Lead	<0.0075		0.050	0.0075	mg/L		05/08/17 08:10	05/08/17 21:45	1
Nickel	<0.010		0.025	0.010	mg/L		05/08/17 08:10	05/08/17 21:45	1
Selenium	<0.020		0.050	0.020	mg/L		05/08/17 08:10	05/08/17 21:45	1
Silver	<0.010		0.025	0.010	mg/L		05/08/17 08:10	05/08/17 21:45	1
Zinc	<0.020		0.10	0.020	mg/L		05/08/17 08:10	05/08/17 21:45	1

Method: 7470A - Mercury (CVAA) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		05/08/17 13:40	05/09/17 10:13	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Flashpoint	>176		40.0	40.0	Degrees F			05/11/17 18:10	1
Cyanide, Total	<0.16		0.45	0.16	mg/Kg		05/10/17 12:50	05/10/17 15:37	1
Sulfide	8.8	J	10	4.7	mg/Kg		05/15/17 17:36	05/15/17 21:49	1
pH	9.1		0.2	0.2	SU			05/09/17 16:04	1
Paint Filter	PASS				No Unit			05/11/17 22:41	1
Specific Gravity	2.1987				NONE			05/12/17 22:11	1

Client Sample ID: GP-07 (6-8)

Lab Sample ID: 500-127505-16

Date Collected: 05/01/17 12:35

Matrix: Solid

Date Received: 05/03/17 09:00

Percent Solids: 87.2

Method: WDNR - Wisconsin - Gasoline Range Organics (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trimethylbenzene	<17		28	17	ug/Kg	☼	05/05/17 15:52	05/10/17 02:42	1
1,3,5-Trimethylbenzene	<17		28	17	ug/Kg	☼	05/05/17 15:52	05/10/17 02:42	1
Benzene	<20		28	20	ug/Kg	☼	05/05/17 15:52	05/10/17 02:42	1
Ethylbenzene	<21		28	21	ug/Kg	☼	05/05/17 15:52	05/10/17 02:42	1
Methyl tert-butyl ether	<14		28	14	ug/Kg	☼	05/05/17 15:52	05/10/17 02:42	1
Naphthalene	<140		280	140	ug/Kg	☼	05/05/17 15:52	05/10/17 02:42	1
Toluene	<19		28	19	ug/Kg	☼	05/05/17 15:52	05/10/17 02:42	1
Xylenes, Total	<34		84	34	ug/Kg	☼	05/05/17 15:52	05/10/17 02:42	1
Wisconsin GRO	<2800		5600	2800	ug/Kg	☼	05/05/17 15:52	05/10/17 02:42	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	91		80 - 120	05/05/17 15:52	05/10/17 02:42	1

TestAmerica Chicago

Client Sample Results

Client: TRC Environmental Corporation.
Project/Site: STH 11 Kentucky to Kearney - 275788

TestAmerica Job ID: 500-127505-1

Client Sample ID: GP-07 (6-8)

Date Collected: 05/01/17 12:35

Date Received: 05/03/17 09:00

Lab Sample ID: 500-127505-16

Matrix: Solid

Percent Solids: 87.2

Method: WDNR - Wisconsin - Gasoline Range Organics (GC) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>a,a,a</i> -Trifluorotoluene	98		80 - 120	05/05/17 15:52	05/10/17 02:42	1

Method: 8082A - 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	☼	05/09/17 16:38	05/10/17 13:50	1
PCB-1221	<8.2		19	8.2	ug/Kg	☼	05/09/17 16:38	05/10/17 13:50	1
PCB-1232	<8.2		19	8.2	ug/Kg	☼	05/09/17 16:38	05/10/17 13:50	1
PCB-1242	<6.1		19	6.1	ug/Kg	☼	05/09/17 16:38	05/10/17 13:50	1
PCB-1248	<7.4		19	7.4	ug/Kg	☼	05/09/17 16:38	05/10/17 13:50	1
PCB-1254	<4.0		19	4.0	ug/Kg	☼	05/09/17 16:38	05/10/17 13:50	1
PCB-1260	<9.2		19	9.2	ug/Kg	☼	05/09/17 16:38	05/10/17 13:50	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>Tetrachloro-m-xylene</i>	68		49 - 129	05/09/17 16:38	05/10/17 13:50	1
<i>DCB Decachlorobiphenyl</i>	67		37 - 121	05/09/17 16:38	05/10/17 13:50	1

Method: WI-DRO - Wisconsin - Diesel Range Organics (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
WI Diesel Range Organics (C10-C28)	2.2	J	4.5	1.8	mg/Kg	☼	05/04/17 11:15	05/05/17 16:14	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>n</i> -Nonane	77		44 - 148	05/04/17 11:15	05/05/17 16:14	1

Client Sample ID: GP-07 (14-16)

Date Collected: 05/01/17 12:50

Date Received: 05/03/17 09:00

Lab Sample ID: 500-127505-17

Matrix: Solid

Percent Solids: 86.6

Method: WDNR - Wisconsin - Gasoline Range Organics (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<20		28	20	ug/Kg	☼	05/05/17 15:52	05/10/17 03:09	1
Ethylbenzene	<21		28	21	ug/Kg	☼	05/05/17 15:52	05/10/17 03:09	1
Methyl tert-butyl ether	<13		28	13	ug/Kg	☼	05/05/17 15:52	05/10/17 03:09	1
Naphthalene	270	J	280	130	ug/Kg	☼	05/05/17 15:52	05/10/17 03:09	1
Toluene	<19		28	19	ug/Kg	☼	05/05/17 15:52	05/10/17 03:09	1
1,2,4-Trimethylbenzene	<17		28	17	ug/Kg	☼	05/05/17 15:52	05/10/17 03:09	1
1,3,5-Trimethylbenzene	23	J	28	17	ug/Kg	☼	05/05/17 15:52	05/10/17 03:09	1
Xylenes, Total	38	J	84	34	ug/Kg	☼	05/05/17 15:52	05/10/17 03:09	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>a,a,a</i> -Trifluorotoluene	90		80 - 120	05/05/17 15:52	05/10/17 03:09	1

Client Sample ID: GP-08 (2-4)

Date Collected: 05/01/17 13:45

Date Received: 05/03/17 09:00

Lab Sample ID: 500-127505-18

Matrix: Solid

Percent Solids: 88.4

Method: WDNR - Wisconsin - Gasoline Range Organics (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<21		29	21	ug/Kg	☼	05/05/17 15:52	05/10/17 08:04	1
Ethylbenzene	<22		29	22	ug/Kg	☼	05/05/17 15:52	05/10/17 08:04	1
Methyl tert-butyl ether	<14		29	14	ug/Kg	☼	05/05/17 15:52	05/10/17 08:04	1

TestAmerica Chicago

Client Sample Results

Client: TRC Environmental Corporation.
Project/Site: STH 11 Kentucky to Kearney - 275788

TestAmerica Job ID: 500-127505-1

Client Sample ID: GP-08 (2-4)

Date Collected: 05/01/17 13:45

Date Received: 05/03/17 09:00

Lab Sample ID: 500-127505-18

Matrix: Solid

Percent Solids: 88.4

Method: WDNR - Wisconsin - Gasoline Range Organics (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	<140		290	140	ug/Kg	☼	05/05/17 15:52	05/10/17 08:04	1
Toluene	<20		29	20	ug/Kg	☼	05/05/17 15:52	05/10/17 08:04	1
1,2,4-Trimethylbenzene	<17		29	17	ug/Kg	☼	05/05/17 15:52	05/10/17 08:04	1
1,3,5-Trimethylbenzene	<17		29	17	ug/Kg	☼	05/05/17 15:52	05/10/17 08:04	1
Xylenes, Total	<35		87	35	ug/Kg	☼	05/05/17 15:52	05/10/17 08:04	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>a,a,a-Trifluorotoluene</i>	91		80 - 120	05/05/17 15:52	05/10/17 08:04	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	9.9		0.51	0.24	mg/Kg	☼	05/05/17 15:07	05/11/17 22:19	1

Client Sample ID: GP-08 (6-8)

Date Collected: 05/01/17 13:50

Date Received: 05/03/17 09:00

Lab Sample ID: 500-127505-19

Matrix: Solid

Percent Solids: 89.1

Method: WDNR - Wisconsin - Gasoline Range Organics (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<20		28	20	ug/Kg	☼	05/05/17 15:52	05/10/17 03:36	1
Ethylbenzene	<21		28	21	ug/Kg	☼	05/05/17 15:52	05/10/17 03:36	1
Methyl tert-butyl ether	<13		28	13	ug/Kg	☼	05/05/17 15:52	05/10/17 03:36	1
Naphthalene	<130		280	130	ug/Kg	☼	05/05/17 15:52	05/10/17 03:36	1
Toluene	<19		28	19	ug/Kg	☼	05/05/17 15:52	05/10/17 03:36	1
1,2,4-Trimethylbenzene	<17		28	17	ug/Kg	☼	05/05/17 15:52	05/10/17 03:36	1
1,3,5-Trimethylbenzene	<17		28	17	ug/Kg	☼	05/05/17 15:52	05/10/17 03:36	1
Xylenes, Total	<33		83	33	ug/Kg	☼	05/05/17 15:52	05/10/17 03:36	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>a,a,a-Trifluorotoluene</i>	91		80 - 120	05/05/17 15:52	05/10/17 03:36	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	9.3		0.53	0.24	mg/Kg	☼	05/05/17 15:07	05/11/17 22:31	1

Client Sample ID: GP-09 (2-4)

Date Collected: 05/01/17 14:20

Date Received: 05/03/17 09:00

Lab Sample ID: 500-127505-20

Matrix: Solid

Percent Solids: 85.2

Method: WDNR - Wisconsin - Gasoline Range Organics (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<22		30	22	ug/Kg	☼	05/05/17 15:52	05/10/17 05:23	1
Ethylbenzene	<23		30	23	ug/Kg	☼	05/05/17 15:52	05/10/17 05:23	1
Methyl tert-butyl ether	<15		30	15	ug/Kg	☼	05/05/17 15:52	05/10/17 05:23	1
Naphthalene	<150		300	150	ug/Kg	☼	05/05/17 15:52	05/10/17 05:23	1
Toluene	36		30	21	ug/Kg	☼	05/05/17 15:52	05/10/17 05:23	1
1,2,4-Trimethylbenzene	<18		30	18	ug/Kg	☼	05/05/17 15:52	05/10/17 05:23	1
1,3,5-Trimethylbenzene	<18		30	18	ug/Kg	☼	05/05/17 15:52	05/10/17 05:23	1
Xylenes, Total	<36		91	36	ug/Kg	☼	05/05/17 15:52	05/10/17 05:23	1

TestAmerica Chicago

Client Sample Results

Client: TRC Environmental Corporation.
Project/Site: STH 11 Kentucky to Kearney - 275788

TestAmerica Job ID: 500-127505-1

Client Sample ID: GP-09 (2-4)

Date Collected: 05/01/17 14:20

Date Received: 05/03/17 09:00

Lab Sample ID: 500-127505-20

Matrix: Solid

Percent Solids: 85.2

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	90		80 - 120	05/05/17 15:52	05/10/17 05:23	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	13		0.54	0.25	mg/Kg	☼	05/05/17 15:07	05/11/17 22:35	1

Client Sample ID: GP-09 (6-8)

Date Collected: 05/01/17 14:25

Date Received: 05/03/17 09:00

Lab Sample ID: 500-127505-21

Matrix: Solid

Percent Solids: 84.7

Method: WDNR - Wisconsin - Gasoline Range Organics (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<21		29	21	ug/Kg	☼	05/05/17 15:52	05/10/17 05:50	1
Ethylbenzene	<22		29	22	ug/Kg	☼	05/05/17 15:52	05/10/17 05:50	1
Methyl tert-butyl ether	<14		29	14	ug/Kg	☼	05/05/17 15:52	05/10/17 05:50	1
Naphthalene	<140		290	140	ug/Kg	☼	05/05/17 15:52	05/10/17 05:50	1
Toluene	<20		29	20	ug/Kg	☼	05/05/17 15:52	05/10/17 05:50	1
1,2,4-Trimethylbenzene	20	J	29	17	ug/Kg	☼	05/05/17 15:52	05/10/17 05:50	1
1,3,5-Trimethylbenzene	<17		29	17	ug/Kg	☼	05/05/17 15:52	05/10/17 05:50	1
Xylenes, Total	<35		87	35	ug/Kg	☼	05/05/17 15:52	05/10/17 05:50	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	90		80 - 120	05/05/17 15:52	05/10/17 05:50	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	8.0		0.55	0.25	mg/Kg	☼	05/05/17 15:07	05/11/17 22:40	1

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

Date Collected: 05/01/17 14:35

Date Received: 05/03/17 09:00

Lab Sample ID: 500-127505-22

Matrix: Solid

Percent Solids: 83.2

Method: WDNR - Wisconsin - Gasoline Range Organics (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<22		30	22	ug/Kg	☼	05/05/17 15:52	05/10/17 06:16	1
Ethylbenzene	<23		30	23	ug/Kg	☼	05/05/17 15:52	05/10/17 06:16	1
Methyl tert-butyl ether	<15		30	15	ug/Kg	☼	05/05/17 15:52	05/10/17 06:16	1
Naphthalene	<150		300	150	ug/Kg	☼	05/05/17 15:52	05/10/17 06:16	1
Toluene	<21		30	21	ug/Kg	☼	05/05/17 15:52	05/10/17 06:16	1
1,2,4-Trimethylbenzene	<18		30	18	ug/Kg	☼	05/05/17 15:52	05/10/17 06:16	1
1,3,5-Trimethylbenzene	<18		30	18	ug/Kg	☼	05/05/17 15:52	05/10/17 06:16	1
Xylenes, Total	<37		91	37	ug/Kg	☼	05/05/17 15:52	05/10/17 06:16	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	91		80 - 120	05/05/17 15:52	05/10/17 06:16	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	14		0.56	0.26	mg/Kg	☼	05/05/17 15:07	05/11/17 22:44	1

TestAmerica Chicago

Client Sample Results

Client: TRC Environmental Corporation.
Project/Site: STH 11 Kentucky to Kearney - 275788

TestAmerica Job ID: 500-127505-1

Client Sample ID: GP-10 (6-8)

Lab Sample ID: 500-127505-23

Date Collected: 05/01/17 14:40

Matrix: Solid

Date Received: 05/03/17 09:00

Percent Solids: 84.7

Method: WDNR - Wisconsin - Gasoline Range Organics (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<21		29	21	ug/Kg	☼	05/05/17 15:52	05/10/17 06:43	1
Ethylbenzene	<22		29	22	ug/Kg	☼	05/05/17 15:52	05/10/17 06:43	1
Methyl tert-butyl ether	<14		29	14	ug/Kg	☼	05/05/17 15:52	05/10/17 06:43	1
Naphthalene	<140		290	140	ug/Kg	☼	05/05/17 15:52	05/10/17 06:43	1
Toluene	<20		29	20	ug/Kg	☼	05/05/17 15:52	05/10/17 06:43	1
1,2,4-Trimethylbenzene	<18		29	18	ug/Kg	☼	05/05/17 15:52	05/10/17 06:43	1
1,3,5-Trimethylbenzene	<18		29	18	ug/Kg	☼	05/05/17 15:52	05/10/17 06:43	1
Xylenes, Total	<35		88	35	ug/Kg	☼	05/05/17 15:52	05/10/17 06:43	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	91		80 - 120	05/05/17 15:52	05/10/17 06:43	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	9.9		0.53	0.24	mg/Kg	☼	05/05/17 15:07	05/11/17 22:47	1

Client Sample ID: GP-11 (2-4)

Lab Sample ID: 500-127505-24

Date Collected: 05/01/17 15:00

Matrix: Solid

Date Received: 05/03/17 09:00

Percent Solids: 88.4

Method: WDNR - Wisconsin - Gasoline Range Organics (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<20		28	20	ug/Kg	☼	05/05/17 15:52	05/10/17 07:10	1
Ethylbenzene	60		28	22	ug/Kg	☼	05/05/17 15:52	05/10/17 07:10	1
Methyl tert-butyl ether	<14		28	14	ug/Kg	☼	05/05/17 15:52	05/10/17 07:10	1
Naphthalene	<140		280	140	ug/Kg	☼	05/05/17 15:52	05/10/17 07:10	1
Toluene	<19		28	19	ug/Kg	☼	05/05/17 15:52	05/10/17 07:10	1
1,2,4-Trimethylbenzene	31		28	17	ug/Kg	☼	05/05/17 15:52	05/10/17 07:10	1
1,3,5-Trimethylbenzene	<17		28	17	ug/Kg	☼	05/05/17 15:52	05/10/17 07:10	1
Xylenes, Total	110		85	34	ug/Kg	☼	05/05/17 15:52	05/10/17 07:10	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	95		80 - 120	05/05/17 15:52	05/10/17 07:10	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	63		0.49	0.23	mg/Kg	☼	05/05/17 15:07	05/11/17 22:50	1

Client Sample ID: GP-11 (6-8)

Lab Sample ID: 500-127505-25

Date Collected: 05/01/17 15:05

Matrix: Solid

Date Received: 05/03/17 09:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	<0.010		0.020	0.010	mg/L			05/09/17 01:35	20
1,2-Dichloroethane	<0.010		0.020	0.010	mg/L			05/09/17 01:35	20
Benzene	<0.010		0.020	0.010	mg/L			05/09/17 01:35	20
Carbon tetrachloride	<0.010		0.020	0.010	mg/L			05/09/17 01:35	20
Chlorobenzene	<0.010		0.020	0.010	mg/L			05/09/17 01:35	20
Chloroform	<0.020		0.040	0.020	mg/L			05/09/17 01:35	20
Methyl Ethyl Ketone	<0.050		0.10	0.050	mg/L			05/09/17 01:35	20

TestAmerica Chicago

Client Sample Results

Client: TRC Environmental Corporation.
Project/Site: STH 11 Kentucky to Kearney - 275788

TestAmerica Job ID: 500-127505-1

Client Sample ID: GP-11 (6-8)

Lab Sample ID: 500-127505-25

Date Collected: 05/01/17 15:05

Matrix: Solid

Date Received: 05/03/17 09:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	<0.010		0.020	0.010	mg/L			05/09/17 01:35	20
Trichloroethene	<0.010		0.020	0.010	mg/L			05/09/17 01:35	20
Vinyl chloride	<0.010		0.020	0.010	mg/L			05/09/17 01:35	20
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	105		75 - 126					05/09/17 01:35	20
4-Bromofluorobenzene (Surr)	114		72 - 124					05/09/17 01:35	20
Dibromofluoromethane	91		75 - 120					05/09/17 01:35	20
Toluene-d8 (Surr)	100		75 - 120					05/09/17 01:35	20

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	<0.020		0.020	0.020	mg/L		05/08/17 07:42	05/08/17 18:13	1
2,4,5-Trichlorophenol	<0.10		0.10	0.10	mg/L		05/08/17 07:42	05/08/17 18:13	1
2,4,6-Trichlorophenol	<0.050		0.050	0.050	mg/L		05/08/17 07:42	05/08/17 18:13	1
2,4-Dinitrotoluene	<0.010		0.010	0.010	mg/L		05/08/17 07:42	05/08/17 18:13	1
2-Methylphenol	<0.020		0.020	0.020	mg/L		05/08/17 07:42	05/08/17 18:13	1
3 & 4 Methylphenol	<0.020		0.020	0.020	mg/L		05/08/17 07:42	05/08/17 18:13	1
Hexachlorobenzene	<0.0050		0.0050	0.0050	mg/L		05/08/17 07:42	05/08/17 18:13	1
Hexachlorobutadiene	<0.050		0.050	0.050	mg/L		05/08/17 07:42	05/08/17 18:13	1
Hexachloroethane	<0.050		0.050	0.050	mg/L		05/08/17 07:42	05/08/17 18:13	1
Nitrobenzene	<0.010		0.010	0.010	mg/L		05/08/17 07:42	05/08/17 18:13	1
Pentachlorophenol	<0.20		0.20	0.20	mg/L		05/08/17 07:42	05/08/17 18:13	1
Pyridine	<0.20		0.20	0.20	mg/L		05/08/17 07:42	05/08/17 18:13	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	86		40 - 145				05/08/17 07:42	05/08/17 18:13	1
2-Fluorobiphenyl	86		34 - 110				05/08/17 07:42	05/08/17 18:13	1
2-Fluorophenol (Surr)	57		27 - 110				05/08/17 07:42	05/08/17 18:13	1
Nitrobenzene-d5 (Surr)	93		36 - 120				05/08/17 07:42	05/08/17 18:13	1
Phenol-d5 (Surr)	40		20 - 100				05/08/17 07:42	05/08/17 18:13	1
Terphenyl-d14 (Surr)	100		40 - 145				05/08/17 07:42	05/08/17 18:13	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.010		0.050	0.010	mg/L		05/08/17 08:10	05/08/17 21:50	1
Barium	0.15	J	0.50	0.050	mg/L		05/08/17 08:10	05/08/17 21:50	1
Cadmium	0.0040	J	0.0050	0.0020	mg/L		05/08/17 08:10	05/08/17 21:50	1
Chromium	<0.010		0.025	0.010	mg/L		05/08/17 08:10	05/08/17 21:50	1
Copper	0.011	J	0.025	0.010	mg/L		05/08/17 08:10	05/08/17 21:50	1
Lead	0.034	J	0.050	0.0075	mg/L		05/08/17 08:10	05/08/17 21:50	1
Nickel	0.024	J	0.025	0.010	mg/L		05/08/17 08:10	05/08/17 21:50	1
Selenium	<0.020		0.050	0.020	mg/L		05/08/17 08:10	05/08/17 21:50	1
Silver	<0.010		0.025	0.010	mg/L		05/08/17 08:10	05/08/17 21:50	1
Zinc	0.030	J	0.10	0.020	mg/L		05/08/17 08:10	05/08/17 21:50	1

Method: 7470A - Mercury (CVAA) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		05/08/17 13:40	05/09/17 10:15	1

TestAmerica Chicago

Client Sample Results

Client: TRC Environmental Corporation.
Project/Site: STH 11 Kentucky to Kearney - 275788

TestAmerica Job ID: 500-127505-1

Client Sample ID: GP-11 (6-8)

Lab Sample ID: 500-127505-25

Date Collected: 05/01/17 15:05

Matrix: Solid

Date Received: 05/03/17 09:00

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Flashpoint	>176		40.0	40.0	Degrees F			05/11/17 20:00	1
Cyanide, Total	<0.13		0.37	0.13	mg/Kg		05/10/17 12:50	05/10/17 15:37	1
Sulfide	6.2	J	9.7	4.6	mg/Kg		05/15/17 17:36	05/15/17 21:51	1
pH	8.8		0.2	0.2	SU			05/09/17 16:06	1
Paint Filter	PASS				No Unit			05/11/17 22:43	1
Specific Gravity	1.1838				NONE			05/12/17 22:15	1

Client Sample ID: GP-11 (6-8)

Lab Sample ID: 500-127505-25

Date Collected: 05/01/17 15:05

Matrix: Solid

Date Received: 05/03/17 09:00

Percent Solids: 89.3

Method: WDNR - Wisconsin - Gasoline Range Organics (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trimethylbenzene	<16		27	16	ug/Kg	☼	05/05/17 15:52	05/10/17 07:37	1
1,3,5-Trimethylbenzene	<16		27	16	ug/Kg	☼	05/05/17 15:52	05/10/17 07:37	1
Benzene	<19		27	19	ug/Kg	☼	05/05/17 15:52	05/10/17 07:37	1
Ethylbenzene	<20		27	20	ug/Kg	☼	05/05/17 15:52	05/10/17 07:37	1
Methyl tert-butyl ether	<13		27	13	ug/Kg	☼	05/05/17 15:52	05/10/17 07:37	1
Naphthalene	<130		270	130	ug/Kg	☼	05/05/17 15:52	05/10/17 07:37	1
Toluene	<18		27	18	ug/Kg	☼	05/05/17 15:52	05/10/17 07:37	1
Xylenes, Total	<32		80	32	ug/Kg	☼	05/05/17 15:52	05/10/17 07:37	1
Wisconsin GRO	<2700		5300	2700	ug/Kg	☼	05/05/17 15:52	05/10/17 07:37	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>a,a,a-Trifluorotoluene</i>	91		80 - 120				05/05/17 15:52	05/10/17 07:37	1
<i>a,a,a-Trifluorotoluene</i>	96		80 - 120				05/05/17 15:52	05/10/17 07:37	1

Method: 8082A - 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	☼	05/09/17 16:38	05/10/17 14:06	1
PCB-1221	<8.1		19	8.1	ug/Kg	☼	05/09/17 16:38	05/10/17 14:06	1
PCB-1232	<8.1		19	8.1	ug/Kg	☼	05/09/17 16:38	05/10/17 14:06	1
PCB-1242	<6.1		19	6.1	ug/Kg	☼	05/09/17 16:38	05/10/17 14:06	1
PCB-1248	<7.3		19	7.3	ug/Kg	☼	05/09/17 16:38	05/10/17 14:06	1
PCB-1254	<4.0		19	4.0	ug/Kg	☼	05/09/17 16:38	05/10/17 14:06	1
PCB-1260	<9.1		19	9.1	ug/Kg	☼	05/09/17 16:38	05/10/17 14:06	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>Tetrachloro-m-xylene</i>	64		49 - 129				05/09/17 16:38	05/10/17 14:06	1
<i>DCB Decachlorobiphenyl</i>	78		37 - 121				05/09/17 16:38	05/10/17 14:06	1

Method: WI-DRO - Wisconsin - Diesel Range Organics (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
WI Diesel Range Organics (C10-C28)	4.9		4.4	1.8	mg/Kg	☼	05/04/17 11:15	05/05/17 16:49	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>n-Nonane</i>	71		44 - 148				05/04/17 11:15	05/05/17 16:49	1

TestAmerica Chicago

Client Sample Results

Client: TRC Environmental Corporation.
Project/Site: STH 11 Kentucky to Kearney - 275788

TestAmerica Job ID: 500-127505-1

Client Sample ID: GP-11 (6-8)

Lab Sample ID: 500-127505-25

Date Collected: 05/01/17 15:05

Matrix: Solid

Date Received: 05/03/17 09:00

Percent Solids: 89.3

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	11		0.52	0.24	mg/Kg	☼	05/05/17 15:07	05/11/17 22:53	1

Client Sample ID: Trip Blank

Lab Sample ID: 500-127505-26

Date Collected: 05/01/17 00:00

Matrix: Solid

Date Received: 05/03/17 09:00

Percent Solids: 100.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<23		50	23	ug/Kg	☼	05/01/17 00:00	05/15/17 15:55	50
1,1,1-Trichloroethane	<19		50	19	ug/Kg	☼	05/01/17 00:00	05/15/17 15:55	50
1,1,2,2-Tetrachloroethane	<20		50	20	ug/Kg	☼	05/01/17 00:00	05/15/17 15:55	50
1,1,2-Trichloroethane	<18		50	18	ug/Kg	☼	05/01/17 00:00	05/15/17 15:55	50
1,1-Dichloroethane	<21 *		50	21	ug/Kg	☼	05/01/17 00:00	05/15/17 15:55	50
1,1-Dichloroethene	<20 *		50	20	ug/Kg	☼	05/01/17 00:00	05/15/17 15:55	50
1,1-Dichloropropene	<15		50	15	ug/Kg	☼	05/01/17 00:00	05/15/17 15:55	50
1,2,3-Trichlorobenzene	<23		50	23	ug/Kg	☼	05/01/17 00:00	05/15/17 15:55	50
1,2,3-Trichloropropane	<21		50	21	ug/Kg	☼	05/01/17 00:00	05/15/17 15:55	50
1,2,4-Trichlorobenzene	<17		50	17	ug/Kg	☼	05/01/17 00:00	05/15/17 15:55	50
1,2,4-Trimethylbenzene	<18		50	18	ug/Kg	☼	05/01/17 00:00	05/15/17 15:55	50
1,2-Dibromo-3-Chloropropane	<100		250	100	ug/Kg	☼	05/01/17 00:00	05/15/17 15:55	50
1,2-Dibromoethane	<19		50	19	ug/Kg	☼	05/01/17 00:00	05/15/17 15:55	50
1,2-Dichlorobenzene	<17		50	17	ug/Kg	☼	05/01/17 00:00	05/15/17 15:55	50
1,2-Dichloroethane	<20		50	20	ug/Kg	☼	05/01/17 00:00	05/15/17 15:55	50
1,2-Dichloropropane	<21		50	21	ug/Kg	☼	05/01/17 00:00	05/15/17 15:55	50
1,3,5-Trimethylbenzene	<19		50	19	ug/Kg	☼	05/01/17 00:00	05/15/17 15:55	50
1,3-Dichlorobenzene	<20		50	20	ug/Kg	☼	05/01/17 00:00	05/15/17 15:55	50
1,3-Dichloropropane	<18		50	18	ug/Kg	☼	05/01/17 00:00	05/15/17 15:55	50
1,4-Dichlorobenzene	<18		50	18	ug/Kg	☼	05/01/17 00:00	05/15/17 15:55	50
2,2-Dichloropropane	<22		50	22	ug/Kg	☼	05/01/17 00:00	05/15/17 15:55	50
2-Chlorotoluene	<16		50	16	ug/Kg	☼	05/01/17 00:00	05/15/17 15:55	50
4-Chlorotoluene	<18		50	18	ug/Kg	☼	05/01/17 00:00	05/15/17 15:55	50
Benzene	<7.3		13	7.3	ug/Kg	☼	05/01/17 00:00	05/15/17 15:55	50
Bromobenzene	<18		50	18	ug/Kg	☼	05/01/17 00:00	05/15/17 15:55	50
Bromochloromethane	<21 *		50	21	ug/Kg	☼	05/01/17 00:00	05/15/17 15:55	50
Bromodichloromethane	<19		50	19	ug/Kg	☼	05/01/17 00:00	05/15/17 15:55	50
Bromoform	<24		50	24	ug/Kg	☼	05/01/17 00:00	05/15/17 15:55	50
Bromomethane	<40		100	40	ug/Kg	☼	05/01/17 00:00	05/15/17 15:55	50
Carbon tetrachloride	<19		50	19	ug/Kg	☼	05/01/17 00:00	05/15/17 15:55	50
Chlorobenzene	<19		50	19	ug/Kg	☼	05/01/17 00:00	05/15/17 15:55	50
Chloroethane	<25		50	25	ug/Kg	☼	05/01/17 00:00	05/15/17 15:55	50
Chloroform	<19 *		100	19	ug/Kg	☼	05/01/17 00:00	05/15/17 15:55	50
Chloromethane	<16		50	16	ug/Kg	☼	05/01/17 00:00	05/15/17 15:55	50
cis-1,2-Dichloroethene	<20 *		50	20	ug/Kg	☼	05/01/17 00:00	05/15/17 15:55	50
cis-1,3-Dichloropropene	<21		50	21	ug/Kg	☼	05/01/17 00:00	05/15/17 15:55	50
Dibromochloromethane	<24		50	24	ug/Kg	☼	05/01/17 00:00	05/15/17 15:55	50
Dibromomethane	<14		50	14	ug/Kg	☼	05/01/17 00:00	05/15/17 15:55	50
Dichlorodifluoromethane	<34		100	34	ug/Kg	☼	05/01/17 00:00	05/15/17 15:55	50
Ethylbenzene	<9.2		13	9.2	ug/Kg	☼	05/01/17 00:00	05/15/17 15:55	50
Hexachlorobutadiene	<22		50	22	ug/Kg	☼	05/01/17 00:00	05/15/17 15:55	50
Isopropyl ether	<14		50	14	ug/Kg	☼	05/01/17 00:00	05/15/17 15:55	50

TestAmerica Chicago

Client Sample Results

Client: TRC Environmental Corporation.
Project/Site: STH 11 Kentucky to Kearney - 275788

TestAmerica Job ID: 500-127505-1

Client Sample ID: Trip Blank

Lab Sample ID: 500-127505-26

Date Collected: 05/01/17 00:00

Matrix: Solid

Date Received: 05/03/17 09:00

Percent Solids: 100.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Isopropylbenzene	<19		50	19	ug/Kg	☼	05/01/17 00:00	05/15/17 15:55	50
Methyl tert-butyl ether	<20	*	50	20	ug/Kg	☼	05/01/17 00:00	05/15/17 15:55	50
Methylene Chloride	<82	*	250	82	ug/Kg	☼	05/01/17 00:00	05/15/17 15:55	50
Naphthalene	<17	*	50	17	ug/Kg	☼	05/01/17 00:00	05/15/17 15:55	50
n-Butylbenzene	<19		50	19	ug/Kg	☼	05/01/17 00:00	05/15/17 15:55	50
N-Propylbenzene	<21		50	21	ug/Kg	☼	05/01/17 00:00	05/15/17 15:55	50
p-Isopropyltoluene	<18		50	18	ug/Kg	☼	05/01/17 00:00	05/15/17 15:55	50
sec-Butylbenzene	<20		50	20	ug/Kg	☼	05/01/17 00:00	05/15/17 15:55	50
Styrene	<19	*	50	19	ug/Kg	☼	05/01/17 00:00	05/15/17 15:55	50
tert-Butylbenzene	<20		50	20	ug/Kg	☼	05/01/17 00:00	05/15/17 15:55	50
Tetrachloroethene	<19		50	19	ug/Kg	☼	05/01/17 00:00	05/15/17 15:55	50
Toluene	<7.4		13	7.4	ug/Kg	☼	05/01/17 00:00	05/15/17 15:55	50
trans-1,2-Dichloroethene	<18	*	50	18	ug/Kg	☼	05/01/17 00:00	05/15/17 15:55	50
trans-1,3-Dichloropropene	<18		50	18	ug/Kg	☼	05/01/17 00:00	05/15/17 15:55	50
Trichloroethene	<8.2		25	8.2	ug/Kg	☼	05/01/17 00:00	05/15/17 15:55	50
Trichlorofluoromethane	<21	*	50	21	ug/Kg	☼	05/01/17 00:00	05/15/17 15:55	50
Vinyl chloride	<13	*	25	13	ug/Kg	☼	05/01/17 00:00	05/15/17 15:55	50
Xylenes, Total	<11		25	11	ug/Kg	☼	05/01/17 00:00	05/15/17 15:55	50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	100		75 - 126	05/01/17 00:00	05/15/17 15:55	50
4-Bromofluorobenzene (Surr)	93		72 - 124	05/01/17 00:00	05/15/17 15:55	50
Dibromofluoromethane	101		75 - 120	05/01/17 00:00	05/15/17 15:55	50
Toluene-d8 (Surr)	95		75 - 120	05/01/17 00:00	05/15/17 15:55	50

TestAmerica Laboratories, Inc.
 Attention: Sandie Fredrick
 2417 Bond St
 University Park, IL 44720

Date Received: 05/05/2017
Date Reported: 05/15/17 17:06
Client Project: Soil/Waste
Client Project ID: Soil/Waste
PO# 2669273
Project #: Soil/Waste

Certificate of Analysis

This analytical test report shall not be reproduced, except in full, without written permission from Eurofins S-F Analytical Laboratories. All quality control samples and checks were within acceptance limits unless otherwise indicated. Test results pertain only to those items tested. All samples were in good condition when received by the laboratory unless otherwise noted. All LOD/LOQs are adjusted to reflect dilutions.

DNR #	Analyte	Result Wet Wt.	LOD Wet Wt.	Result Dry Wt.	LOD Dry Wt.	LOQ Dry Wt.	Units	Dilution Factor	Date Prepared	Date Analyzed	Method	Notes	
1705123-01		GP-05 (6-8) (500-127505-11)					Date Collected: 05/01/2017						
		Preparation: SW-846 5050 1994					Prepared By: P84Z		Analyzed By: P84Z				
	Chlorine as Cl	0.005	0.002	0.005	0.002	0.006	% Wt.	1	5/15/17	05/15/17	ASTM D808		
	Solids	Result: 85.98				% Wt.			Analyzed By: YT09	5/8/17	05/09/17	SM2540G 1997	
DNR #	Analyte	Result Wet Wt.	LOD Wet Wt.	Result Dry Wt.	LOD Dry Wt.	LOQ Dry Wt.	Units	Dilution Factor	Date Prepared	Date Analyzed	Method	Notes	
1705123-02		GP-07 (6-8) (500-127505-16)					Date Collected: 05/01/2017						
		Preparation: SW-846 5050 1994					Prepared By: P84Z		Analyzed By: P84Z				
	Chlorine as Cl	0.006	0.002	0.006	0.002	0.007	% Wt.	1	5/15/17	05/15/17	ASTM D808		
	Solids	Result: 86.74				% Wt.			Analyzed By: YT09	5/8/17	05/09/17	SM2540G 1997	
DNR #	Analyte	Result Wet Wt.	LOD Wet Wt.	Result Dry Wt.	LOD Dry Wt.	LOQ Dry Wt.	Units	Dilution Factor	Date Prepared	Date Analyzed	Method	Notes	
1705123-03		GP-11 (6-8) (500-127505-25)					Date Collected: 05/01/2017						
		Preparation: SW-846 5050 1994					Prepared By: P84Z		Analyzed By: P84Z				
	Chlorine as Cl	0.028	0.002	0.032	0.002	0.006	% Wt.	1	5/15/17	05/15/17	ASTM D808		
	Solids	Result: 89.25				% Wt.			Analyzed By: YT09	5/8/17	05/09/17	SM2540G 1997	

This report was prepared and printed by:



Josh Rhein, Chemistry Operations Manager

Page 1 of 1

Definitions/Glossary

Client: TRC Environmental Corporation.
Project/Site: STH 11 Kentucky to Kearney - 275788

TestAmerica Job ID: 500-127505-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*	LCS or LCSD is outside acceptance limits.

GC 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 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.

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.
F3	Duplicate RPD exceeds the control limit

General Chemistry

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	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
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 (Radiochemistry)
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: STH 11 Kentucky to Kearney - 275788

TestAmerica Job ID: 500-127505-1

GC/MS VOA

Prep Batch: 384046

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-127505-6	GP-03 (2-4)	Total/NA	Solid	5035	
500-127505-7	GP-03 (6-8)	Total/NA	Solid	5035	
500-127505-8	GP-04 (2-4)	Total/NA	Solid	5035	
500-127505-9	GP-04 (6-8)	Total/NA	Solid	5035	
500-127505-10	GP-05 (2-4)	Total/NA	Solid	5035	
500-127505-11	GP-05 (6-8)	Total/NA	Solid	5035	
500-127505-12	GP-05 (14-16)	Total/NA	Solid	5035	
500-127505-26	Trip Blank	Total/NA	Solid	5035	

Leach Batch: 384086

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-127505-11	GP-05 (6-8)	TCLP	Solid	1311	
500-127505-16	GP-07 (6-8)	TCLP	Solid	1311	
500-127505-25	GP-11 (6-8)	TCLP	Solid	1311	
LB 500-384086/1-A	Method Blank	TCLP	Solid	1311	

Analysis Batch: 384262

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-127505-11	GP-05 (6-8)	TCLP	Solid	8260B	384086
500-127505-16	GP-07 (6-8)	TCLP	Solid	8260B	384086
500-127505-25	GP-11 (6-8)	TCLP	Solid	8260B	384086
LB 500-384086/1-A	Method Blank	TCLP	Solid	8260B	384086
MB 500-384262/6	Method Blank	Total/NA	Solid	8260B	
LCS 500-384262/4	Lab Control Sample	Total/NA	Solid	8260B	

Analysis Batch: 385134

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-127505-6	GP-03 (2-4)	Total/NA	Solid	8260B	384046
500-127505-7	GP-03 (6-8)	Total/NA	Solid	8260B	384046
500-127505-8	GP-04 (2-4)	Total/NA	Solid	8260B	384046
500-127505-9	GP-04 (6-8)	Total/NA	Solid	8260B	384046
500-127505-10	GP-05 (2-4)	Total/NA	Solid	8260B	384046
500-127505-11	GP-05 (6-8)	Total/NA	Solid	8260B	384046
500-127505-12	GP-05 (14-16)	Total/NA	Solid	8260B	384046
500-127505-26	Trip Blank	Total/NA	Solid	8260B	384046
MB 500-385134/6	Method Blank	Total/NA	Solid	8260B	
LCS 500-385134/4	Lab Control Sample	Total/NA	Solid	8260B	

GC/MS Semi VOA

Leach Batch: 383992

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-127505-11	GP-05 (6-8)	TCLP	Solid	1311	
500-127505-16	GP-07 (6-8)	TCLP	Solid	1311	
500-127505-25	GP-11 (6-8)	TCLP	Solid	1311	
LB 500-383992/1-B	Method Blank	TCLP	Solid	1311	
500-127505-11 MS	GP-05 (6-8)	TCLP	Solid	1311	

TestAmerica Chicago

QC Association Summary

Client: TRC Environmental Corporation.
 Project/Site: STH 11 Kentucky to Kearney - 275788

TestAmerica Job ID: 500-127505-1

GC/MS Semi VOA (Continued)

Prep Batch: 384171

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-127505-11	GP-05 (6-8)	TCLP	Solid	3510C	383992
500-127505-16	GP-07 (6-8)	TCLP	Solid	3510C	383992
500-127505-25	GP-11 (6-8)	TCLP	Solid	3510C	383992
LB 500-383992/1-B	Method Blank	TCLP	Solid	3510C	383992
MB 500-384171/1-A	Method Blank	Total/NA	Solid	3510C	
LCS 500-384171/2-A	Lab Control Sample	Total/NA	Solid	3510C	
500-127505-11 MS	GP-05 (6-8)	TCLP	Solid	3510C	383992

Analysis Batch: 384241

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-127505-11	GP-05 (6-8)	TCLP	Solid	8270D	384171
500-127505-16	GP-07 (6-8)	TCLP	Solid	8270D	384171
500-127505-25	GP-11 (6-8)	TCLP	Solid	8270D	384171
LB 500-383992/1-B	Method Blank	TCLP	Solid	8270D	384171
MB 500-384171/1-A	Method Blank	Total/NA	Solid	8270D	384171
LCS 500-384171/2-A	Lab Control Sample	Total/NA	Solid	8270D	384171
500-127505-11 MS	GP-05 (6-8)	TCLP	Solid	8270D	384171

GC VOA

Prep Batch: 384046

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-127505-11	GP-05 (6-8)	Total/NA	Solid	WI GRO	
LB3 500-384046/21-A	Method Blank	Total/NA	Solid	5035	
LCS 500-384046/23-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 500-384046/24-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Analysis Batch: 384093

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-127505-11	GP-05 (6-8)	Total/NA	Solid	WI-GRO	384046
LB3 500-384046/21-A	Method Blank	Total/NA	Solid	WI-GRO	384046
LCS 500-384046/23-A	Lab Control Sample	Total/NA	Solid	WI-GRO	384046
LCSD 500-384046/24-A	Lab Control Sample Dup	Total/NA	Solid	WI-GRO	384046

Prep Batch: 427841

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-127505-1	GP-01 (0-2)	Total/NA	Solid	WI GRO	
500-127505-2	GP-01 (6-8)	Total/NA	Solid	WI GRO	
500-127505-3	GP-02 (2-4)	Total/NA	Solid	WI GRO	
500-127505-4	GP-02 (6-8)	Total/NA	Solid	WI GRO	
500-127505-5	GP-02 (14-16)	Total/NA	Solid	WI GRO	
500-127505-13	GP-06 (2-4)	Total/NA	Solid	WI GRO	
500-127505-14	GP-06 (6-8)	Total/NA	Solid	WI GRO	
500-127505-15	GP-07 (2-4)	Total/NA	Solid	WI GRO	
500-127505-16	GP-07 (6-8)	Total/NA	Solid	WI GRO	
500-127505-17	GP-07 (14-16)	Total/NA	Solid	WI GRO	
500-127505-18	GP-08 (2-4)	Total/NA	Solid	WI GRO	
500-127505-19	GP-08 (6-8)	Total/NA	Solid	WI GRO	
500-127505-20	GP-09 (2-4)	Total/NA	Solid	WI GRO	
500-127505-21	GP-09 (6-8)	Total/NA	Solid	WI GRO	

TestAmerica Chicago

QC Association Summary

Client: TRC Environmental Corporation.
Project/Site: STH 11 Kentucky to Kearney - 275788

TestAmerica Job ID: 500-127505-1

GC VOA (Continued)

Prep Batch: 427841 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-127505-22	GP-10 (2-4)	Total/NA	Solid	WI GRO	
500-127505-23	GP-10 (6-8)	Total/NA	Solid	WI GRO	
500-127505-24	GP-11 (2-4)	Total/NA	Solid	WI GRO	
500-127505-25	GP-11 (6-8)	Total/NA	Solid	WI GRO	
MB 490-427841/40-A	Method Blank	Total/NA	Solid	WI GRO	
LCS 490-427841/41-A	Lab Control Sample	Total/NA	Solid	WI GRO	
LCSD 490-427841/42-A	Lab Control Sample Dup	Total/NA	Solid	WI GRO	

Analysis Batch: 428725

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-127505-1	GP-01 (0-2)	Total/NA	Solid	WDNR	427841
500-127505-2	GP-01 (6-8)	Total/NA	Solid	WDNR	427841
500-127505-3	GP-02 (2-4)	Total/NA	Solid	WDNR	427841
500-127505-4	GP-02 (6-8)	Total/NA	Solid	WDNR	427841
500-127505-5	GP-02 (14-16)	Total/NA	Solid	WDNR	427841
500-127505-13	GP-06 (2-4)	Total/NA	Solid	WDNR	427841
500-127505-14	GP-06 (6-8)	Total/NA	Solid	WDNR	427841
500-127505-15	GP-07 (2-4)	Total/NA	Solid	WDNR	427841
500-127505-16	GP-07 (6-8)	Total/NA	Solid	WDNR	427841
500-127505-17	GP-07 (14-16)	Total/NA	Solid	WDNR	427841
500-127505-18	GP-08 (2-4)	Total/NA	Solid	WDNR	427841
500-127505-19	GP-08 (6-8)	Total/NA	Solid	WDNR	427841
500-127505-20	GP-09 (2-4)	Total/NA	Solid	WDNR	427841
500-127505-21	GP-09 (6-8)	Total/NA	Solid	WDNR	427841
500-127505-22	GP-10 (2-4)	Total/NA	Solid	WDNR	427841
500-127505-23	GP-10 (6-8)	Total/NA	Solid	WDNR	427841
500-127505-24	GP-11 (2-4)	Total/NA	Solid	WDNR	427841
500-127505-25	GP-11 (6-8)	Total/NA	Solid	WDNR	427841
MB 490-427841/40-A	Method Blank	Total/NA	Solid	WDNR	427841
LCS 490-427841/41-A	Lab Control Sample	Total/NA	Solid	WDNR	427841
LCSD 490-427841/42-A	Lab Control Sample Dup	Total/NA	Solid	WDNR	427841

GC Semi VOA

Prep Batch: 383737

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-127505-11	GP-05 (6-8)	Total/NA	Solid	WI DRO PREP	
500-127505-16	GP-07 (6-8)	Total/NA	Solid	WI DRO PREP	
500-127505-25	GP-11 (6-8)	Total/NA	Solid	WI DRO PREP	
MB 500-383737/1-A	Method Blank	Total/NA	Solid	WI DRO PREP	
LCS 500-383737/2-A	Lab Control Sample	Total/NA	Solid	WI DRO PREP	
LCSD 500-383737/3-A	Lab Control Sample Dup	Total/NA	Solid	WI DRO PREP	

Analysis Batch: 383957

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-127505-11	GP-05 (6-8)	Total/NA	Solid	WI-DRO	383737
500-127505-16	GP-07 (6-8)	Total/NA	Solid	WI-DRO	383737
500-127505-25	GP-11 (6-8)	Total/NA	Solid	WI-DRO	383737
MB 500-383737/1-A	Method Blank	Total/NA	Solid	WI-DRO	383737
LCS 500-383737/2-A	Lab Control Sample	Total/NA	Solid	WI-DRO	383737

TestAmerica Chicago

QC Association Summary

Client: TRC Environmental Corporation.
Project/Site: STH 11 Kentucky to Kearney - 275788

TestAmerica Job ID: 500-127505-1

GC Semi VOA (Continued)

Analysis Batch: 383957 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 500-383737/3-A	Lab Control Sample Dup	Total/NA	Solid	WI-DRO	383737

Prep Batch: 384456

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-127505-11	GP-05 (6-8)	Total/NA	Solid	3541	
500-127505-16	GP-07 (6-8)	Total/NA	Solid	3541	
500-127505-25	GP-11 (6-8)	Total/NA	Solid	3541	
MB 500-384456/1-A	Method Blank	Total/NA	Solid	3541	
LCS 500-384456/2-A	Lab Control Sample	Total/NA	Solid	3541	

Analysis Batch: 384545

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-127505-11	GP-05 (6-8)	Total/NA	Solid	8082A	384456
500-127505-16	GP-07 (6-8)	Total/NA	Solid	8082A	384456
500-127505-25	GP-11 (6-8)	Total/NA	Solid	8082A	384456
MB 500-384456/1-A	Method Blank	Total/NA	Solid	8082A	384456
LCS 500-384456/2-A	Lab Control Sample	Total/NA	Solid	8082A	384456

Metals

Leach Batch: 383992

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-127505-11	GP-05 (6-8)	TCLP	Solid	1311	
500-127505-16	GP-07 (6-8)	TCLP	Solid	1311	
500-127505-25	GP-11 (6-8)	TCLP	Solid	1311	
LB 500-383992/1-C	Method Blank	TCLP	Solid	1311	
LB 500-383992/1-D	Method Blank	TCLP	Solid	1311	

Prep Batch: 383993

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-127505-6	GP-03 (2-4)	Total/NA	Solid	3050B	
500-127505-7	GP-03 (6-8)	Total/NA	Solid	3050B	
500-127505-8	GP-04 (2-4)	Total/NA	Solid	3050B	
500-127505-9	GP-04 (6-8)	Total/NA	Solid	3050B	
500-127505-10	GP-05 (2-4)	Total/NA	Solid	3050B	
500-127505-11	GP-05 (6-8)	Total/NA	Solid	3050B	
500-127505-12	GP-05 (14-16)	Total/NA	Solid	3050B	
500-127505-18	GP-08 (2-4)	Total/NA	Solid	3050B	
500-127505-19	GP-08 (6-8)	Total/NA	Solid	3050B	
500-127505-20	GP-09 (2-4)	Total/NA	Solid	3050B	
500-127505-21	GP-09 (6-8)	Total/NA	Solid	3050B	
500-127505-22	GP-10 (2-4)	Total/NA	Solid	3050B	
500-127505-23	GP-10 (6-8)	Total/NA	Solid	3050B	
500-127505-24	GP-11 (2-4)	Total/NA	Solid	3050B	
500-127505-25	GP-11 (6-8)	Total/NA	Solid	3050B	
MB 500-383993/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 500-383993/2-A	Lab Control Sample	Total/NA	Solid	3050B	
500-127505-25 MS	GP-11 (6-8)	Total/NA	Solid	3050B	
500-127505-25 MSD	GP-11 (6-8)	Total/NA	Solid	3050B	
500-127505-25 DU	GP-11 (6-8)	Total/NA	Solid	3050B	

TestAmerica Chicago

QC Association Summary

Client: TRC Environmental Corporation.
Project/Site: STH 11 Kentucky to Kearney - 275788

TestAmerica Job ID: 500-127505-1

Metals (Continued)

Prep Batch: 384187

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-127505-11	GP-05 (6-8)	TCLP	Solid	3010A	383992
500-127505-16	GP-07 (6-8)	TCLP	Solid	3010A	383992
500-127505-25	GP-11 (6-8)	TCLP	Solid	3010A	383992
LB 500-383992/1-C	Method Blank	TCLP	Solid	3010A	383992
LCS 500-384187/2-A	Lab Control Sample	Total/NA	Solid	3010A	

Prep Batch: 384260

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-127505-11	GP-05 (6-8)	TCLP	Solid	7470A	383992
500-127505-16	GP-07 (6-8)	TCLP	Solid	7470A	383992
500-127505-25	GP-11 (6-8)	TCLP	Solid	7470A	383992
LB 500-383992/1-D	Method Blank	TCLP	Solid	7470A	383992
MB 500-384260/12-A	Method Blank	Total/NA	Solid	7470A	
LCS 500-384260/13-A	Lab Control Sample	Total/NA	Solid	7470A	

Analysis Batch: 384328

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-127505-11	GP-05 (6-8)	TCLP	Solid	6010B	384187
500-127505-16	GP-07 (6-8)	TCLP	Solid	6010B	384187
500-127505-25	GP-11 (6-8)	TCLP	Solid	6010B	384187
LB 500-383992/1-C	Method Blank	TCLP	Solid	6010B	384187
LCS 500-384187/2-A	Lab Control Sample	Total/NA	Solid	6010B	384187

Analysis Batch: 384394

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-127505-11	GP-05 (6-8)	TCLP	Solid	7470A	384260
500-127505-16	GP-07 (6-8)	TCLP	Solid	7470A	384260
500-127505-25	GP-11 (6-8)	TCLP	Solid	7470A	384260
LB 500-383992/1-D	Method Blank	TCLP	Solid	7470A	384260
MB 500-384260/12-A	Method Blank	Total/NA	Solid	7470A	384260
LCS 500-384260/13-A	Lab Control Sample	Total/NA	Solid	7470A	384260

Analysis Batch: 384865

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-127505-6	GP-03 (2-4)	Total/NA	Solid	6010B	383993
500-127505-7	GP-03 (6-8)	Total/NA	Solid	6010B	383993
500-127505-8	GP-04 (2-4)	Total/NA	Solid	6010B	383993
500-127505-9	GP-04 (6-8)	Total/NA	Solid	6010B	383993
500-127505-10	GP-05 (2-4)	Total/NA	Solid	6010B	383993
500-127505-11	GP-05 (6-8)	Total/NA	Solid	6010B	383993
500-127505-12	GP-05 (14-16)	Total/NA	Solid	6010B	383993
500-127505-18	GP-08 (2-4)	Total/NA	Solid	6010B	383993
500-127505-19	GP-08 (6-8)	Total/NA	Solid	6010B	383993
500-127505-20	GP-09 (2-4)	Total/NA	Solid	6010B	383993
500-127505-21	GP-09 (6-8)	Total/NA	Solid	6010B	383993
500-127505-22	GP-10 (2-4)	Total/NA	Solid	6010B	383993
500-127505-23	GP-10 (6-8)	Total/NA	Solid	6010B	383993
500-127505-24	GP-11 (2-4)	Total/NA	Solid	6010B	383993
500-127505-25	GP-11 (6-8)	Total/NA	Solid	6010B	383993
MB 500-383993/1-A	Method Blank	Total/NA	Solid	6010B	383993
LCS 500-383993/2-A	Lab Control Sample	Total/NA	Solid	6010B	383993

TestAmerica Chicago

QC Association Summary

Client: TRC Environmental Corporation.
Project/Site: STH 11 Kentucky to Kearney - 275788

TestAmerica Job ID: 500-127505-1

Metals (Continued)

Analysis Batch: 384865 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-127505-25 MS	GP-11 (6-8)	Total/NA	Solid	6010B	383993
500-127505-25 MSD	GP-11 (6-8)	Total/NA	Solid	6010B	383993
500-127505-25 DU	GP-11 (6-8)	Total/NA	Solid	6010B	383993

General Chemistry

Analysis Batch: 383751

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-127505-6	GP-03 (2-4)	Total/NA	Solid	Moisture	
500-127505-7	GP-03 (6-8)	Total/NA	Solid	Moisture	
500-127505-8	GP-04 (2-4)	Total/NA	Solid	Moisture	
500-127505-9	GP-04 (6-8)	Total/NA	Solid	Moisture	
500-127505-10	GP-05 (2-4)	Total/NA	Solid	Moisture	
500-127505-11	GP-05 (6-8)	Total/NA	Solid	Moisture	
500-127505-12	GP-05 (14-16)	Total/NA	Solid	Moisture	
500-127505-16	GP-07 (6-8)	Total/NA	Solid	Moisture	
500-127505-25	GP-11 (6-8)	Total/NA	Solid	Moisture	
500-127505-26	Trip Blank	Total/NA	Solid	Moisture	
500-127505-8 DU	GP-04 (2-4)	Total/NA	Solid	Moisture	

Analysis Batch: 384553

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-127505-11	GP-05 (6-8)	Total/NA	Solid	9045C	
500-127505-16	GP-07 (6-8)	Total/NA	Solid	9045C	
500-127505-25	GP-11 (6-8)	Total/NA	Solid	9045C	

Prep Batch: 384580

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-127505-11	GP-05 (6-8)	Total/NA	Solid	9010B	
500-127505-16	GP-07 (6-8)	Total/NA	Solid	9010B	
500-127505-25	GP-11 (6-8)	Total/NA	Solid	9010B	
MB 500-384580/1-A	Method Blank	Total/NA	Solid	9010B	
LCS 500-384580/2-A	Lab Control Sample	Total/NA	Solid	9010B	

Analysis Batch: 384641

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-127505-11	GP-05 (6-8)	Total/NA	Solid	9014	384580
500-127505-16	GP-07 (6-8)	Total/NA	Solid	9014	384580
500-127505-25	GP-11 (6-8)	Total/NA	Solid	9014	384580
MB 500-384580/1-A	Method Blank	Total/NA	Solid	9014	384580
LCS 500-384580/2-A	Lab Control Sample	Total/NA	Solid	9014	384580

Analysis Batch: 384855

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-127505-11	GP-05 (6-8)	Total/NA	Solid	9095A	
500-127505-16	GP-07 (6-8)	Total/NA	Solid	9095A	
500-127505-25	GP-11 (6-8)	Total/NA	Solid	9095A	

TestAmerica Chicago

QC Association Summary

Client: TRC Environmental Corporation.
 Project/Site: STH 11 Kentucky to Kearney - 275788

TestAmerica Job ID: 500-127505-1

General Chemistry (Continued)

Analysis Batch: 384856

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-127505-11	GP-05 (6-8)	Total/NA	Solid	1010	
500-127505-16	GP-07 (6-8)	Total/NA	Solid	1010	
500-127505-25	GP-11 (6-8)	Total/NA	Solid	1010	

Analysis Batch: 385047

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-127505-11	GP-05 (6-8)	Total/NA	Solid	SM 2710F	
500-127505-16	GP-07 (6-8)	Total/NA	Solid	SM 2710F	
500-127505-25	GP-11 (6-8)	Total/NA	Solid	SM 2710F	

Prep Batch: 385245

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-127505-11	GP-05 (6-8)	Total/NA	Solid	9030B	
500-127505-16	GP-07 (6-8)	Total/NA	Solid	9030B	
500-127505-25	GP-11 (6-8)	Total/NA	Solid	9030B	
MB 500-385245/1-A	Method Blank	Total/NA	Solid	9030B	
LCS 500-385245/2-A	Lab Control Sample	Total/NA	Solid	9030B	

Analysis Batch: 385402

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-127505-11	GP-05 (6-8)	Total/NA	Solid	9034	385245
500-127505-16	GP-07 (6-8)	Total/NA	Solid	9034	385245
500-127505-25	GP-11 (6-8)	Total/NA	Solid	9034	385245
MB 500-385245/1-A	Method Blank	Total/NA	Solid	9034	385245
LCS 500-385245/2-A	Lab Control Sample	Total/NA	Solid	9034	385245

Analysis Batch: 427523

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-127505-1	GP-01 (0-2)	Total/NA	Solid	Moisture	
500-127505-2	GP-01 (6-8)	Total/NA	Solid	Moisture	
500-127505-3	GP-02 (2-4)	Total/NA	Solid	Moisture	
500-127505-4	GP-02 (6-8)	Total/NA	Solid	Moisture	
500-127505-5	GP-02 (14-16)	Total/NA	Solid	Moisture	
500-127505-13	GP-06 (2-4)	Total/NA	Solid	Moisture	
500-127505-14	GP-06 (6-8)	Total/NA	Solid	Moisture	
500-127505-15	GP-07 (2-4)	Total/NA	Solid	Moisture	
500-127505-17	GP-07 (14-16)	Total/NA	Solid	Moisture	
500-127505-18	GP-08 (2-4)	Total/NA	Solid	Moisture	
500-127505-19	GP-08 (6-8)	Total/NA	Solid	Moisture	
500-127505-20	GP-09 (2-4)	Total/NA	Solid	Moisture	
500-127505-21	GP-09 (6-8)	Total/NA	Solid	Moisture	
500-127505-22	GP-10 (2-4)	Total/NA	Solid	Moisture	
500-127505-4 DU	GP-02 (6-8)	Total/NA	Solid	Moisture	

Analysis Batch: 427540

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-127505-23	GP-10 (6-8)	Total/NA	Solid	Moisture	
500-127505-24	GP-11 (2-4)	Total/NA	Solid	Moisture	
500-127505-23 DU	GP-10 (6-8)	Total/NA	Solid	Moisture	
500-127505-24 DU	GP-11 (2-4)	Total/NA	Solid	Moisture	

TestAmerica Chicago

Surrogate Summary

Client: TRC Environmental Corporation.
Project/Site: STH 11 Kentucky to Kearney - 275788

TestAmerica Job ID: 500-127505-1

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

Matrix: Solid

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		12DCE (75-126)	BFB (72-124)	DBFM (75-120)	TOL (75-120)
500-127505-6	GP-03 (2-4)	97	89	101	94
500-127505-7	GP-03 (6-8)	97	91	100	94
500-127505-8	GP-04 (2-4)	98	92	99	94
500-127505-9	GP-04 (6-8)	100	93	102	94
500-127505-10	GP-05 (2-4)	98	90	100	94
500-127505-11	GP-05 (6-8)	97	92	99	95
500-127505-12	GP-05 (14-16)	98	92	101	93
500-127505-26	Trip Blank	100	93	101	95
LCS 500-384262/4	Lab Control Sample	103	109	93	102
LCS 500-385134/4	Lab Control Sample	87	90	94	96
MB 500-384262/6	Method Blank	105	114	89	100
MB 500-385134/6	Method Blank	91	94	97	96

Surrogate Legend

12DCE = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane
TOL = Toluene-d8 (Surr)

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

Matrix: Solid

Prep Type: TCLP

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		12DCE (75-126)	BFB (72-124)	DBFM (75-120)	TOL (75-120)
500-127505-11	GP-05 (6-8)	103	110	89	101
500-127505-16	GP-07 (6-8)	104	108	90	101
500-127505-25	GP-11 (6-8)	105	114	91	100
LB 500-384086/1-A	Method Blank	104	110	89	97

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

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)					
		TBP (40-145)	FBP (34-110)	2FP (27-110)	NBZ (36-120)	PHL (20-100)	TPH (40-145)
LCS 500-384171/2-A	Lab Control Sample	98	87	61	92	44	103
MB 500-384171/1-A	Method Blank	90	90	65	97	43	107

Surrogate Legend

TBP = 2,4,6-Tribromophenol (Surr)
FBP = 2-Fluorobiphenyl
2FP = 2-Fluorophenol (Surr)
NBZ = Nitrobenzene-d5 (Surr)

TestAmerica Chicago

Surrogate Summary

Client: TRC Environmental Corporation.
Project/Site: STH 11 Kentucky to Kearney - 275788

TestAmerica Job ID: 500-127505-1

PHL = Phenol-d5 (Surr)
TPH = Terphenyl-d14 (Surr)

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

Matrix: Solid

Prep Type: TCLP

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)					
		TBP (40-145)	FBP (34-110)	2FP (27-110)	NBZ (36-120)	PHL (20-100)	TPH (40-145)
500-127505-11	GP-05 (6-8)	90	86	59	95	42	104
500-127505-11 MS	GP-05 (6-8)	96	83	58	90	40	104
500-127505-16	GP-07 (6-8)	87	87	60	96	41	103
500-127505-25	GP-11 (6-8)	86	86	57	93	40	100
LB 500-383992/1-B	Method Blank	90	84	56	94	39	104

Surrogate Legend

TBP = 2,4,6-Tribromophenol (Surr)
FBP = 2-Fluorobiphenyl
2FP = 2-Fluorophenol (Surr)
NBZ = Nitrobenzene-d5 (Surr)
PHL = Phenol-d5 (Surr)
TPH = Terphenyl-d14 (Surr)

Method: WDNR - Wisconsin - Gasoline Range Organics (GC)

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)	
		TFT (80-120)	TFT (80-120)
500-127505-1	GP-01 (0-2)	87	87
500-127505-2	GP-01 (6-8)	88	88
500-127505-3	GP-02 (2-4)	91	91
500-127505-4	GP-02 (6-8)	89	89
500-127505-5	GP-02 (14-16)	92	92
500-127505-13	GP-06 (2-4)	86	86
500-127505-14	GP-06 (6-8)	91	91
500-127505-15	GP-07 (2-4)	88	88
500-127505-16	GP-07 (6-8)	91	91
500-127505-17	GP-07 (14-16)	90	90
500-127505-18	GP-08 (2-4)	91	91
500-127505-19	GP-08 (6-8)	91	91
500-127505-20	GP-09 (2-4)	90	90
500-127505-21	GP-09 (6-8)	90	90
500-127505-22	GP-10 (2-4)	91	91
500-127505-23	GP-10 (6-8)	91	91
500-127505-24	GP-11 (2-4)	95	95
500-127505-25	GP-11 (6-8)	91	91
LCS 490-427841/41-A	Lab Control Sample	96	96
LCSD 490-427841/42-A	Lab Control Sample Dup	97	97
MB 490-427841/40-A	Method Blank	88	88

Surrogate Legend

TFT = a,a,a-Trifluorotoluene

TestAmerica Chicago

Surrogate Summary

Client: TRC Environmental Corporation.
Project/Site: STH 11 Kentucky to Kearney - 275788

TestAmerica Job ID: 500-127505-1

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

Matrix: Solid

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	TCX1 (49-129)	DCB1 (37-121)
500-127505-11	GP-05 (6-8)	61	62
500-127505-16	GP-07 (6-8)	68	67
500-127505-25	GP-11 (6-8)	64	78
LCS 500-384456/2-A	Lab Control Sample	76	63
MB 500-384456/1-A	Method Blank	76	70

Surrogate Legend

TCX = Tetrachloro-m-xylene

DCB = DCB Decachlorobiphenyl

Method: WI-DRO - Wisconsin - Diesel Range Organics (GC)

Matrix: Solid

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	C9 (44-148)
500-127505-11	GP-05 (6-8)	69
500-127505-16	GP-07 (6-8)	77
500-127505-25	GP-11 (6-8)	71
LCS 500-383737/2-A	Lab Control Sample	77
LCSD 500-383737/3-A	Lab Control Sample Dup	71
MB 500-383737/1-A	Method Blank	83

Surrogate Legend

C9 = n-Nonane

QC Sample Results

Client: TRC Environmental Corporation.
 Project/Site: STH 11 Kentucky to Kearney - 275788

TestAmerica Job ID: 500-127505-1

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

Lab Sample ID: MB 500-384262/6

Matrix: Solid

Analysis Batch: 384262

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	<0.00050		0.0010	0.00050	mg/L			05/08/17 22:32	1
Methyl Ethyl Ketone	<0.0025		0.0050	0.0025	mg/L			05/08/17 22:32	1
1,2-Dichloroethane	<0.00050		0.0010	0.00050	mg/L			05/08/17 22:32	1
Benzene	<0.00050		0.0010	0.00050	mg/L			05/08/17 22:32	1
Carbon tetrachloride	<0.00050		0.0010	0.00050	mg/L			05/08/17 22:32	1
Chlorobenzene	<0.00050		0.0010	0.00050	mg/L			05/08/17 22:32	1
Chloroform	<0.0010		0.0020	0.0010	mg/L			05/08/17 22:32	1
Tetrachloroethene	<0.00050		0.0010	0.00050	mg/L			05/08/17 22:32	1
Trichloroethene	<0.00050		0.0010	0.00050	mg/L			05/08/17 22:32	1
Vinyl chloride	<0.00050		0.0010	0.00050	mg/L			05/08/17 22:32	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	105		75 - 126		05/08/17 22:32	1
4-Bromofluorobenzene (Surr)	114		72 - 124		05/08/17 22:32	1
Dibromofluoromethane	89		75 - 120		05/08/17 22:32	1
Toluene-d8 (Surr)	100		75 - 120		05/08/17 22:32	1

Lab Sample ID: LCS 500-384262/4

Matrix: Solid

Analysis Batch: 384262

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1-Dichloroethene	0.0500	0.0449		mg/L		90	67 - 122
Methyl Ethyl Ketone	0.0500	0.0524		mg/L		105	53 - 141
1,2-Dichloroethane	0.0500	0.0504		mg/L		101	68 - 127
Benzene	0.0500	0.0479		mg/L		96	70 - 120
Carbon tetrachloride	0.0500	0.0453		mg/L		91	65 - 122
Chlorobenzene	0.0500	0.0500		mg/L		100	70 - 120
Chloroform	0.0500	0.0455		mg/L		91	70 - 120
Tetrachloroethene	0.0500	0.0518		mg/L		104	70 - 128
Trichloroethene	0.0500	0.0488		mg/L		98	70 - 125
Vinyl chloride	0.0500	0.0415		mg/L		83	64 - 126

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	103		75 - 126
4-Bromofluorobenzene (Surr)	109		72 - 124
Dibromofluoromethane	93		75 - 120
Toluene-d8 (Surr)	102		75 - 120

Lab Sample ID: MB 500-385134/6

Matrix: Solid

Analysis Batch: 385134

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	<0.46		1.0	0.46	ug/Kg			05/15/17 11:01	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/Kg			05/15/17 11:01	1
1,1,1,2-Tetrachloroethane	<0.40		1.0	0.40	ug/Kg			05/15/17 11:01	1

TestAmerica Chicago

QC Sample Results

Client: TRC Environmental Corporation.
 Project/Site: STH 11 Kentucky to Kearney - 275788

TestAmerica Job ID: 500-127505-1

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

Lab Sample ID: MB 500-385134/6
Matrix: Solid
Analysis Batch: 385134

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/Kg			05/15/17 11:01	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/Kg			05/15/17 11:01	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/Kg			05/15/17 11:01	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/Kg			05/15/17 11:01	1
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/Kg			05/15/17 11:01	1
1,2,3-Trichloropropane	<0.41		1.0	0.41	ug/Kg			05/15/17 11:01	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/Kg			05/15/17 11:01	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/Kg			05/15/17 11:01	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/Kg			05/15/17 11:01	1
1,2-Dibromoethane	<0.39		1.0	0.39	ug/Kg			05/15/17 11:01	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/Kg			05/15/17 11:01	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/Kg			05/15/17 11:01	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/Kg			05/15/17 11:01	1
1,3,5-Trimethylbenzene	<0.38		1.0	0.38	ug/Kg			05/15/17 11:01	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/Kg			05/15/17 11:01	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/Kg			05/15/17 11:01	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/Kg			05/15/17 11:01	1
2,2-Dichloropropane	<0.44		1.0	0.44	ug/Kg			05/15/17 11:01	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/Kg			05/15/17 11:01	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/Kg			05/15/17 11:01	1
Benzene	<0.15		0.25	0.15	ug/Kg			05/15/17 11:01	1
Bromobenzene	<0.36		1.0	0.36	ug/Kg			05/15/17 11:01	1
Bromochloromethane	<0.43		1.0	0.43	ug/Kg			05/15/17 11:01	1
Bromodichloromethane	<0.37		1.0	0.37	ug/Kg			05/15/17 11:01	1
Bromoform	<0.48		1.0	0.48	ug/Kg			05/15/17 11:01	1
Bromomethane	<0.80		2.0	0.80	ug/Kg			05/15/17 11:01	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/Kg			05/15/17 11:01	1
Chlorobenzene	<0.39		1.0	0.39	ug/Kg			05/15/17 11:01	1
Chloroethane	<0.50		1.0	0.50	ug/Kg			05/15/17 11:01	1
Chloroform	<0.37		2.0	0.37	ug/Kg			05/15/17 11:01	1
Chloromethane	<0.32		1.0	0.32	ug/Kg			05/15/17 11:01	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/Kg			05/15/17 11:01	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/Kg			05/15/17 11:01	1
Dibromochloromethane	<0.49		1.0	0.49	ug/Kg			05/15/17 11:01	1
Dibromomethane	<0.27		1.0	0.27	ug/Kg			05/15/17 11:01	1
Dichlorodifluoromethane	<0.67		2.0	0.67	ug/Kg			05/15/17 11:01	1
Ethylbenzene	<0.18		0.25	0.18	ug/Kg			05/15/17 11:01	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/Kg			05/15/17 11:01	1
Isopropyl ether	<0.28		1.0	0.28	ug/Kg			05/15/17 11:01	1
Isopropylbenzene	<0.38		1.0	0.38	ug/Kg			05/15/17 11:01	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/Kg			05/15/17 11:01	1
Methylene Chloride	<1.6		5.0	1.6	ug/Kg			05/15/17 11:01	1
Naphthalene	<0.33		1.0	0.33	ug/Kg			05/15/17 11:01	1
n-Butylbenzene	<0.39		1.0	0.39	ug/Kg			05/15/17 11:01	1
N-Propylbenzene	<0.41		1.0	0.41	ug/Kg			05/15/17 11:01	1
p-Isopropyltoluene	<0.36		1.0	0.36	ug/Kg			05/15/17 11:01	1
sec-Butylbenzene	<0.40		1.0	0.40	ug/Kg			05/15/17 11:01	1
Styrene	<0.39		1.0	0.39	ug/Kg			05/15/17 11:01	1

TestAmerica Chicago

QC Sample Results

Client: TRC Environmental Corporation.
 Project/Site: STH 11 Kentucky to Kearney - 275788

TestAmerica Job ID: 500-127505-1

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

Lab Sample ID: MB 500-385134/6
Matrix: Solid
Analysis Batch: 385134

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
tert-Butylbenzene	<0.40		1.0	0.40	ug/Kg			05/15/17 11:01	1
Tetrachloroethene	<0.37		1.0	0.37	ug/Kg			05/15/17 11:01	1
Toluene	<0.15		0.25	0.15	ug/Kg			05/15/17 11:01	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/Kg			05/15/17 11:01	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/Kg			05/15/17 11:01	1
Trichloroethene	<0.16		0.50	0.16	ug/Kg			05/15/17 11:01	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/Kg			05/15/17 11:01	1
Vinyl chloride	<0.26		0.50	0.26	ug/Kg			05/15/17 11:01	1
Xylenes, Total	<0.22		0.50	0.22	ug/Kg			05/15/17 11:01	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	91		75 - 126		05/15/17 11:01	1
4-Bromofluorobenzene (Surr)	94		72 - 124		05/15/17 11:01	1
Dibromofluoromethane	97		75 - 120		05/15/17 11:01	1
Toluene-d8 (Surr)	96		75 - 120		05/15/17 11:01	1

Lab Sample ID: LCS 500-385134/4
Matrix: Solid
Analysis Batch: 385134

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	50.0		ug/Kg		100	70 - 125
1,1,1-Trichloroethane	50.0	41.0		ug/Kg		82	70 - 125
1,1,1,2,2-Tetrachloroethane	50.0	46.1		ug/Kg		92	67 - 127
1,1,2-Trichloroethane	50.0	48.9		ug/Kg		98	70 - 122
1,1-Dichloroethane	50.0	42.3		ug/Kg		85	70 - 125
1,1-Dichloroethene	50.0	39.3		ug/Kg		79	67 - 122
1,1-Dichloropropene	50.0	42.4		ug/Kg		85	70 - 121
1,2,3-Trichlorobenzene	50.0	41.2		ug/Kg		82	55 - 140
1,2,3-Trichloropropane	50.0	39.9		ug/Kg		80	50 - 133
1,2,4-Trichlorobenzene	50.0	41.1		ug/Kg		82	66 - 127
1,2,4-Trimethylbenzene	50.0	48.3		ug/Kg		97	70 - 123
1,2-Dibromo-3-Chloropropane	50.0	37.3		ug/Kg		75	56 - 123
1,2-Dibromoethane	50.0	47.1		ug/Kg		94	70 - 125
1,2-Dichlorobenzene	50.0	49.2		ug/Kg		98	70 - 125
1,2-Dichloroethane	50.0	42.6		ug/Kg		85	68 - 127
1,2-Dichloropropane	50.0	47.4		ug/Kg		95	67 - 130
1,3,5-Trimethylbenzene	50.0	47.7		ug/Kg		95	70 - 123
1,3-Dichlorobenzene	50.0	49.1		ug/Kg		98	70 - 125
1,3-Dichloropropane	50.0	46.7		ug/Kg		93	62 - 136
1,4-Dichlorobenzene	50.0	49.2		ug/Kg		98	70 - 120
2,2-Dichloropropane	50.0	33.2		ug/Kg		66	58 - 129
2-Chlorotoluene	50.0	46.0		ug/Kg		92	70 - 125
4-Chlorotoluene	50.0	45.5		ug/Kg		91	68 - 124
Benzene	50.0	42.5		ug/Kg		85	70 - 120
Bromobenzene	50.0	48.3		ug/Kg		97	70 - 122
Bromochloromethane	50.0	48.0		ug/Kg		96	65 - 122
Bromodichloromethane	50.0	42.2		ug/Kg		84	69 - 120

TestAmerica Chicago

QC Sample Results

Client: TRC Environmental Corporation.
 Project/Site: STH 11 Kentucky to Kearney - 275788

TestAmerica Job ID: 500-127505-1

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

Lab Sample ID: LCS 500-385134/4
Matrix: Solid
Analysis Batch: 385134

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	51.4		ug/Kg		103	56 - 132
Bromomethane	50.0	55.6		ug/Kg		111	40 - 130
Carbon tetrachloride	50.0	41.9		ug/Kg		84	65 - 122
Chlorobenzene	50.0	49.0		ug/Kg		98	70 - 120
Chloroethane	50.0	42.1		ug/Kg		84	45 - 127
Chloroform	50.0	42.5		ug/Kg		85	70 - 120
Chloromethane	50.0	46.0		ug/Kg		92	54 - 147
cis-1,2-Dichloroethene	50.0	44.5		ug/Kg		89	70 - 125
cis-1,3-Dichloropropene	50.0	41.4		ug/Kg		83	64 - 127
Dibromochloromethane	50.0	49.8		ug/Kg		100	68 - 125
Dibromomethane	50.0	44.5		ug/Kg		89	70 - 120
Dichlorodifluoromethane	50.0	35.6		ug/Kg		71	40 - 150
Ethylbenzene	50.0	48.1		ug/Kg		96	70 - 120
Hexachlorobutadiene	50.0	49.1		ug/Kg		98	51 - 150
Isopropylbenzene	50.0	47.3		ug/Kg		95	70 - 126
Methyl tert-butyl ether	50.0	34.9		ug/Kg		70	70 - 120
Methylene Chloride	50.0	40.1		ug/Kg		80	69 - 125
Naphthalene	50.0	37.0		ug/Kg		74	59 - 130
n-Butylbenzene	50.0	45.8		ug/Kg		92	68 - 125
N-Propylbenzene	50.0	46.4		ug/Kg		93	69 - 127
p-Isopropyltoluene	50.0	47.4		ug/Kg		95	70 - 125
sec-Butylbenzene	50.0	48.1		ug/Kg		96	70 - 123
Styrene	50.0	48.9		ug/Kg		98	70 - 120
tert-Butylbenzene	50.0	47.8		ug/Kg		96	70 - 121
Tetrachloroethene	50.0	48.8		ug/Kg		98	70 - 128
Toluene	50.0	45.1		ug/Kg		90	70 - 125
trans-1,2-Dichloroethene	50.0	43.0		ug/Kg		86	70 - 125
trans-1,3-Dichloropropene	50.0	40.6		ug/Kg		81	62 - 128
Trichloroethene	50.0	48.5		ug/Kg		97	70 - 125
Trichlorofluoromethane	50.0	41.5		ug/Kg		83	70 - 126
Vinyl chloride	50.0	47.6		ug/Kg		95	64 - 126
Xylenes, Total	100	91.7		ug/Kg		92	70 - 125

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	87		75 - 126
4-Bromofluorobenzene (Surr)	90		72 - 124
Dibromofluoromethane	94		75 - 120
Toluene-d8 (Surr)	96		75 - 120

Lab Sample ID: LB 500-384086/1-A
Matrix: Solid
Analysis Batch: 384262

Client Sample ID: Method Blank
Prep Type: TCLP

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	<0.010		0.020	0.010	mg/L			05/08/17 23:25	20
Methyl Ethyl Ketone	<0.050		0.10	0.050	mg/L			05/08/17 23:25	20
1,2-Dichloroethane	<0.010		0.020	0.010	mg/L			05/08/17 23:25	20
Benzene	<0.010		0.020	0.010	mg/L			05/08/17 23:25	20

TestAmerica Chicago

QC Sample Results

Client: TRC Environmental Corporation.
Project/Site: STH 11 Kentucky to Kearney - 275788

TestAmerica Job ID: 500-127505-1

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

Lab Sample ID: LB 500-384086/1-A
Matrix: Solid
Analysis Batch: 384262

Client Sample ID: Method Blank
Prep Type: TCLP

Analyte	LB	LB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Carbon tetrachloride	<0.010		0.020	0.010	mg/L			05/08/17 23:25	20
Chlorobenzene	<0.010		0.020	0.010	mg/L			05/08/17 23:25	20
Chloroform	<0.020		0.040	0.020	mg/L			05/08/17 23:25	20
Tetrachloroethene	<0.010		0.020	0.010	mg/L			05/08/17 23:25	20
Trichloroethene	<0.010		0.020	0.010	mg/L			05/08/17 23:25	20
Vinyl chloride	<0.010		0.020	0.010	mg/L			05/08/17 23:25	20
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	104		75 - 126					05/08/17 23:25	20
4-Bromofluorobenzene (Surr)	110		72 - 124					05/08/17 23:25	20
Dibromofluoromethane	89		75 - 120					05/08/17 23:25	20
Toluene-d8 (Surr)	97		75 - 120					05/08/17 23:25	20

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

Lab Sample ID: MB 500-384171/1-A
Matrix: Solid
Analysis Batch: 384241

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 384171

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
1,4-Dichlorobenzene	<0.0020		0.0020	0.0020	mg/L		05/08/17 07:42	05/08/17 15:01	1
2,4,5-Trichlorophenol	<0.010		0.010	0.010	mg/L		05/08/17 07:42	05/08/17 15:01	1
2,4,6-Trichlorophenol	<0.0050		0.0050	0.0050	mg/L		05/08/17 07:42	05/08/17 15:01	1
2,4-Dinitrotoluene	<0.0010		0.0010	0.0010	mg/L		05/08/17 07:42	05/08/17 15:01	1
2-Methylphenol	<0.0020		0.0020	0.0020	mg/L		05/08/17 07:42	05/08/17 15:01	1
3 & 4 Methylphenol	<0.0020		0.0020	0.0020	mg/L		05/08/17 07:42	05/08/17 15:01	1
Hexachlorobenzene	<0.00050		0.00050	0.00050	mg/L		05/08/17 07:42	05/08/17 15:01	1
Hexachlorobutadiene	<0.0050		0.0050	0.0050	mg/L		05/08/17 07:42	05/08/17 15:01	1
Hexachloroethane	<0.0050		0.0050	0.0050	mg/L		05/08/17 07:42	05/08/17 15:01	1
Nitrobenzene	<0.0010		0.0010	0.0010	mg/L		05/08/17 07:42	05/08/17 15:01	1
Pentachlorophenol	<0.020		0.020	0.020	mg/L		05/08/17 07:42	05/08/17 15:01	1
Pyridine	<0.020		0.020	0.020	mg/L		05/08/17 07:42	05/08/17 15:01	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	90		40 - 145				05/08/17 07:42	05/08/17 15:01	1
2-Fluorobiphenyl	90		34 - 110				05/08/17 07:42	05/08/17 15:01	1
2-Fluorophenol (Surr)	65		27 - 110				05/08/17 07:42	05/08/17 15:01	1
Nitrobenzene-d5 (Surr)	97		36 - 120				05/08/17 07:42	05/08/17 15:01	1
Phenol-d5 (Surr)	43		20 - 100				05/08/17 07:42	05/08/17 15:01	1
Terphenyl-d14 (Surr)	107		40 - 145				05/08/17 07:42	05/08/17 15:01	1

Lab Sample ID: LCS 500-384171/2-A
Matrix: Solid
Analysis Batch: 384241

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 384171

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits

TestAmerica Chicago

QC Sample Results

Client: TRC Environmental Corporation.
 Project/Site: STH 11 Kentucky to Kearney - 275788

TestAmerica Job ID: 500-127505-1

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

Lab Sample ID: LCS 500-384171/2-A
Matrix: Solid
Analysis Batch: 384241

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 384171

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
2,4,5-Trichlorophenol	0.0400	0.0388		mg/L		97	63 - 120
2,4,6-Trichlorophenol	0.0400	0.0393		mg/L		98	62 - 110
2,4-Dinitrotoluene	0.0400	0.0432		mg/L		108	63 - 122
2-Methylphenol	0.0400	0.0342		mg/L		86	53 - 110
3 & 4 Methylphenol	0.0400	0.0329		mg/L		82	53 - 110
Hexachlorobenzene	0.0400	0.0375		mg/L		94	61 - 120
Hexachlorobutadiene	0.0400	0.0315		mg/L		79	20 - 100
Hexachloroethane	0.0400	0.0314		mg/L		79	20 - 100
Nitrobenzene	0.0400	0.0359		mg/L		90	53 - 110
Pentachlorophenol	0.0800	0.0779		mg/L		97	23 - 129
Pyridine	0.0400	0.0259		mg/L		65	15 - 110

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2,4,6-Tribromophenol (Surr)	98		40 - 145
2-Fluorobiphenyl	87		34 - 110
2-Fluorophenol (Surr)	61		27 - 110
Nitrobenzene-d5 (Surr)	92		36 - 120
Phenol-d5 (Surr)	44		20 - 100
Terphenyl-d14 (Surr)	103		40 - 145

Lab Sample ID: LB 500-383992/1-B
Matrix: Solid
Analysis Batch: 384241

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 384171

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	<0.020		0.020	0.020	mg/L		05/08/17 07:42	05/08/17 14:34	1
2,4,5-Trichlorophenol	<0.10		0.10	0.10	mg/L		05/08/17 07:42	05/08/17 14:34	1
2,4,6-Trichlorophenol	<0.050		0.050	0.050	mg/L		05/08/17 07:42	05/08/17 14:34	1
2,4-Dinitrotoluene	<0.010		0.010	0.010	mg/L		05/08/17 07:42	05/08/17 14:34	1
2-Methylphenol	<0.020		0.020	0.020	mg/L		05/08/17 07:42	05/08/17 14:34	1
3 & 4 Methylphenol	<0.020		0.020	0.020	mg/L		05/08/17 07:42	05/08/17 14:34	1
Hexachlorobenzene	<0.0050		0.0050	0.0050	mg/L		05/08/17 07:42	05/08/17 14:34	1
Hexachlorobutadiene	<0.050		0.050	0.050	mg/L		05/08/17 07:42	05/08/17 14:34	1
Hexachloroethane	<0.050		0.050	0.050	mg/L		05/08/17 07:42	05/08/17 14:34	1
Nitrobenzene	<0.010		0.010	0.010	mg/L		05/08/17 07:42	05/08/17 14:34	1
Pentachlorophenol	<0.20		0.20	0.20	mg/L		05/08/17 07:42	05/08/17 14:34	1
Pyridine	<0.20		0.20	0.20	mg/L		05/08/17 07:42	05/08/17 14:34	1

Surrogate	LB %Recovery	LB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	90		40 - 145	05/08/17 07:42	05/08/17 14:34	1
2-Fluorobiphenyl	84		34 - 110	05/08/17 07:42	05/08/17 14:34	1
2-Fluorophenol (Surr)	56		27 - 110	05/08/17 07:42	05/08/17 14:34	1
Nitrobenzene-d5 (Surr)	94		36 - 120	05/08/17 07:42	05/08/17 14:34	1
Phenol-d5 (Surr)	39		20 - 100	05/08/17 07:42	05/08/17 14:34	1
Terphenyl-d14 (Surr)	104		40 - 145	05/08/17 07:42	05/08/17 14:34	1

TestAmerica Chicago

QC Sample Results

Client: TRC Environmental Corporation.
 Project/Site: STH 11 Kentucky to Kearney - 275788

TestAmerica Job ID: 500-127505-1

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

Lab Sample ID: 500-127505-11 MS

Matrix: Solid
Analysis Batch: 384241

Client Sample ID: GP-05 (6-8)

Prep Type: TCLP
Prep Batch: 384171

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
1,4-Dichlorobenzene	<0.020		0.400	0.325		mg/L		81	23 - 110
2,4,5-Trichlorophenol	<0.10		0.400	0.399		mg/L		100	63 - 120
2,4,6-Trichlorophenol	<0.050		0.400	0.383		mg/L		96	62 - 110
2,4-Dinitrotoluene	<0.010		0.400	0.431		mg/L		108	63 - 122
2-Methylphenol	<0.020		0.400	0.339		mg/L		85	53 - 110
3 & 4 Methylphenol	<0.020		0.400	0.316		mg/L		79	53 - 110
Hexachlorobenzene	<0.0050		0.400	0.375		mg/L		94	61 - 120
Hexachlorobutadiene	<0.050		0.400	0.313		mg/L		78	20 - 100
Hexachloroethane	<0.050		0.400	0.319		mg/L		80	20 - 100
Nitrobenzene	<0.010		0.400	0.366		mg/L		91	53 - 110
Pentachlorophenol	<0.20		0.800	0.777		mg/L		97	23 - 129
Pyridine	<0.20		0.400	0.252		mg/L		63	15 - 110

Surrogate	MS %Recovery	MS Qualifier	Limits
2,4,6-Tribromophenol (Surr)	96		40 - 145
2-Fluorobiphenyl	83		34 - 110
2-Fluorophenol (Surr)	58		27 - 110
Nitrobenzene-d5 (Surr)	90		36 - 120
Phenol-d5 (Surr)	40		20 - 100
Terphenyl-d14 (Surr)	104		40 - 145

Method: WDNR - Wisconsin - Gasoline Range Organics (GC)

Lab Sample ID: MB 490-427841/40-A

Matrix: Solid
Analysis Batch: 428725

Client Sample ID: Method Blank

Prep Type: Total/NA
Prep Batch: 427841

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<18		25	18	ug/Kg		05/06/17 12:45	05/09/17 23:08	1
Ethylbenzene	<19		25	19	ug/Kg		05/06/17 12:45	05/09/17 23:08	1
Methyl tert-butyl ether	<12		25	12	ug/Kg		05/06/17 12:45	05/09/17 23:08	1
1,2,4-Trimethylbenzene	<15		25	15	ug/Kg		05/06/17 12:45	05/09/17 23:08	1
Naphthalene	<120		250	120	ug/Kg		05/06/17 12:45	05/09/17 23:08	1
1,3,5-Trimethylbenzene	<15		25	15	ug/Kg		05/06/17 12:45	05/09/17 23:08	1
Toluene	<17		25	17	ug/Kg		05/06/17 12:45	05/09/17 23:08	1
Xylenes, Total	<30		75	30	ug/Kg		05/06/17 12:45	05/09/17 23:08	1
Wisconsin GRO	<2500		5000	2500	ug/Kg		05/06/17 12:45	05/09/17 23:08	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	88		80 - 120	05/06/17 12:45	05/09/17 23:08	1
a,a,a-Trifluorotoluene	98		80 - 120	05/06/17 12:45	05/09/17 23:08	1

TestAmerica Chicago

QC Sample Results

Client: TRC Environmental Corporation.
Project/Site: STH 11 Kentucky to Kearney - 275788

TestAmerica Job ID: 500-127505-1

Method: WDNR - Wisconsin - Gasoline Range Organics (GC) (Continued)

Lab Sample ID: LCS 490-427841/41-A

Matrix: Solid

Analysis Batch: 428725

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 427841

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Benzene	5000	4490		ug/Kg		90	76 - 120
Ethylbenzene	5000	4530		ug/Kg		91	77 - 120
Methyl tert-butyl ether	5000	5200		ug/Kg		104	73 - 120
1,2,4-Trimethylbenzene	5000	4540		ug/Kg		91	60 - 140
Naphthalene	5000	5460		ug/Kg		109	74 - 127
1,3,5-Trimethylbenzene	5000	4580		ug/Kg		92	74 - 133
Toluene	5000	4540		ug/Kg		91	79 - 120
Wisconsin GRO	50000	52600		ug/Kg		105	80 - 120

Surrogate	LCS %Recovery	LCS Qualifier	Limits
<i>a,a,a-Trifluorotoluene</i>	96		80 - 120
<i>a,a,a-Trifluorotoluene</i>	102		80 - 120

Lab Sample ID: LCSD 490-427841/42-A

Matrix: Solid

Analysis Batch: 428725

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 427841

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	5000	4750		ug/Kg		95	76 - 120	6	27
Ethylbenzene	5000	4630		ug/Kg		93	77 - 120	2	49
Methyl tert-butyl ether	5000	5360		ug/Kg		107	73 - 120	3	31
1,2,4-Trimethylbenzene	5000	4700		ug/Kg		94	60 - 140	3	50
Naphthalene	5000	5190		ug/Kg		104	74 - 127	5	50
1,3,5-Trimethylbenzene	5000	4740		ug/Kg		95	74 - 133	4	42
Toluene	5000	4780		ug/Kg		96	79 - 120	5	37
Wisconsin GRO	50000	53700		ug/Kg		107	80 - 120	2	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
<i>a,a,a-Trifluorotoluene</i>	97		80 - 120
<i>a,a,a-Trifluorotoluene</i>	99		80 - 120

Method: WI-GRO - Wisconsin - Gasoline Range Organics (GC)

Lab Sample ID: LB3 500-384046/21-A

Matrix: Solid

Analysis Batch: 384093

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 384046

Analyte	LB3 Result	LB3 Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
WI Gasoline Range Organics (C5-C10)	<500		1500	500	ug/Kg		05/06/17 01:30	05/07/17 20:24	50

Lab Sample ID: LCS 500-384046/23-A

Matrix: Solid

Analysis Batch: 384093

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 384046

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
WI Gasoline Range Organics (C5-C10)	20000	22800		ug/Kg		114	80 - 120

TestAmerica Chicago

QC Sample Results

Client: TRC Environmental Corporation.
 Project/Site: STH 11 Kentucky to Kearney - 275788

TestAmerica Job ID: 500-127505-1

Lab Sample ID: LCSD 500-384046/24-A
Matrix: Solid
Analysis Batch: 384093

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 384046

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
WI Gasoline Range Organics (C5-C10)	20000	22900		ug/Kg		114	80 - 120	0	20

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

Lab Sample ID: MB 500-384456/1-A
Matrix: Solid
Analysis Batch: 384545

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 384456

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<5.9		17	5.9	ug/Kg		05/09/17 16:38	05/10/17 11:02	1
PCB-1221	<7.3		17	7.3	ug/Kg		05/09/17 16:38	05/10/17 11:02	1
PCB-1232	<7.3		17	7.3	ug/Kg		05/09/17 16:38	05/10/17 11:02	1
PCB-1242	<5.5		17	5.5	ug/Kg		05/09/17 16:38	05/10/17 11:02	1
PCB-1248	<6.6		17	6.6	ug/Kg		05/09/17 16:38	05/10/17 11:02	1
PCB-1254	<3.6		17	3.6	ug/Kg		05/09/17 16:38	05/10/17 11:02	1
PCB-1260	<8.2		17	8.2	ug/Kg		05/09/17 16:38	05/10/17 11:02	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	76		49 - 129	05/09/17 16:38	05/10/17 11:02	1
DCB Decachlorobiphenyl	70		37 - 121	05/09/17 16:38	05/10/17 11:02	1

Lab Sample ID: LCS 500-384456/2-A
Matrix: Solid
Analysis Batch: 384545

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 384456

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
PCB-1016	167	135		ug/Kg		81	57 - 120
PCB-1260	167	130		ug/Kg		78	61 - 125

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Tetrachloro-m-xylene	76		49 - 129
DCB Decachlorobiphenyl	63		37 - 121

Method: WI-DRO - Wisconsin - Diesel Range Organics (GC)

Lab Sample ID: MB 500-383737/1-A
Matrix: Solid
Analysis Batch: 383957

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 383737

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
WI Diesel Range Organics (C10-C28)	<1.6		4.0	1.6	mg/Kg		05/04/17 11:15	05/05/17 14:27	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
n-Nonane	83		44 - 148	05/04/17 11:15	05/05/17 14:27	1

TestAmerica Chicago

QC Sample Results

Client: TRC Environmental Corporation.
 Project/Site: STH 11 Kentucky to Kearney - 275788

TestAmerica Job ID: 500-127505-1

Method: WI-DRO - Wisconsin - Diesel Range Organics (GC) (Continued)

Lab Sample ID: LCS 500-383737/2-A
Matrix: Solid
Analysis Batch: 383957

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 383737

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
WI Diesel Range Organics (C10-C28)	20.0	14.9		mg/Kg		75	70 - 120
Surrogate	%Recovery	LCS Qualifier	Limits				
n-Nonane	77		44 - 148				

Lab Sample ID: LCSD 500-383737/3-A
Matrix: Solid
Analysis Batch: 383957

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 383737

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	Limits	RPD	Limit
WI Diesel Range Organics (C10-C28)	20.0	16.3		mg/Kg		81	70 - 120	9	20
Surrogate	%Recovery	LCSD Qualifier	Limits						
n-Nonane	71		44 - 148						

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 500-383993/1-A
Matrix: Solid
Analysis Batch: 384865

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 383993

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	<0.23		0.50	0.23	mg/Kg		05/05/17 15:07	05/11/17 21:41	1

Lab Sample ID: LCS 500-383993/2-A
Matrix: Solid
Analysis Batch: 384865

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 383993

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Lead	10.0	8.59		mg/Kg		86	80 - 120

Lab Sample ID: 500-127505-25 MS
Matrix: Solid
Analysis Batch: 384865

Client Sample ID: GP-11 (6-8)
Prep Type: Total/NA
Prep Batch: 383993

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Lead	11		10.1	20.6		mg/Kg	☼	90	75 - 125

Lab Sample ID: 500-127505-25 MSD
Matrix: Solid
Analysis Batch: 384865

Client Sample ID: GP-11 (6-8)
Prep Type: Total/NA
Prep Batch: 383993

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Lead	11		10.2	24.1		mg/Kg	☼	124	75 - 125	16	20

TestAmerica Chicago

QC Sample Results

Client: TRC Environmental Corporation.
 Project/Site: STH 11 Kentucky to Kearney - 275788

TestAmerica Job ID: 500-127505-1

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: 500-127505-25 DU
Matrix: Solid
Analysis Batch: 384865

Client Sample ID: GP-11 (6-8)
Prep Type: Total/NA
Prep Batch: 383993

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
Lead	11		21.6	F3	mg/Kg	☼	61	20

Lab Sample ID: LCS 500-384187/2-A
Matrix: Solid
Analysis Batch: 384328

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 384187

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Arsenic	0.100	0.0958		mg/L		96	80 - 120
Barium	0.500	0.514		mg/L		103	80 - 120
Cadmium	0.0500	0.0503		mg/L		101	80 - 120
Chromium	0.200	0.194		mg/L		97	80 - 120
Copper	0.250	0.254		mg/L		102	80 - 120
Lead	0.100	0.0943		mg/L		94	80 - 120
Nickel	0.500	0.486		mg/L		97	80 - 120
Selenium	0.100	0.0946		mg/L		95	80 - 120
Silver	0.0500	0.0473		mg/L		95	80 - 120
Zinc	0.500	0.457		mg/L		91	80 - 120

Lab Sample ID: LB 500-383992/1-C
Matrix: Solid
Analysis Batch: 384328

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 384187

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.010		0.050	0.010	mg/L		05/08/17 08:10	05/08/17 20:33	1
Barium	<0.050		0.50	0.050	mg/L		05/08/17 08:10	05/08/17 20:33	1
Cadmium	<0.0020		0.0050	0.0020	mg/L		05/08/17 08:10	05/08/17 20:33	1
Chromium	<0.010		0.025	0.010	mg/L		05/08/17 08:10	05/08/17 20:33	1
Copper	<0.010		0.025	0.010	mg/L		05/08/17 08:10	05/08/17 20:33	1
Lead	<0.0075		0.050	0.0075	mg/L		05/08/17 08:10	05/08/17 20:33	1
Nickel	<0.010		0.025	0.010	mg/L		05/08/17 08:10	05/08/17 20:33	1
Selenium	<0.020		0.050	0.020	mg/L		05/08/17 08:10	05/08/17 20:33	1
Silver	<0.010		0.025	0.010	mg/L		05/08/17 08:10	05/08/17 20:33	1
Zinc	<0.020		0.10	0.020	mg/L		05/08/17 08:10	05/08/17 20:33	1

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 500-384260/12-A
Matrix: Solid
Analysis Batch: 384394

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 384260

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		05/08/17 13:40	05/09/17 10:03	1

Lab Sample ID: LCS 500-384260/13-A
Matrix: Solid
Analysis Batch: 384394

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 384260

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Mercury	0.00200	0.00212		mg/L		106	80 - 120

TestAmerica Chicago

QC Sample Results

Client: TRC Environmental Corporation.
 Project/Site: STH 11 Kentucky to Kearney - 275788

TestAmerica Job ID: 500-127505-1

Lab Sample ID: LB 500-383992/1-D
Matrix: Solid
Analysis Batch: 384394

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 384260

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		05/08/17 13:40	05/09/17 10:06	1

Method: 9014 - Cyanide

Lab Sample ID: MB 500-384580/1-A
Matrix: Solid
Analysis Batch: 384641

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 384580

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.17		0.50	0.17	mg/Kg		05/10/17 12:50	05/10/17 15:33	1

Lab Sample ID: LCS 500-384580/2-A
Matrix: Solid
Analysis Batch: 384641

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 384580

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Cyanide, Total	5.00	5.00		mg/Kg		100	80 - 120

Method: 9034 - Sulfide, Acid soluble and Insoluble (Titrimetric)

Lab Sample ID: MB 500-385245/1-A
Matrix: Solid
Analysis Batch: 385402

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 385245

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide	<4.7		10	4.7	mg/Kg		05/15/17 17:36	05/15/17 21:39	1

Lab Sample ID: LCS 500-385245/2-A
Matrix: Solid
Analysis Batch: 385402

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 385245

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Sulfide	338	335		mg/Kg		99	80 - 120

Lab Chronicle

Client: TRC Environmental Corporation.
Project/Site: STH 11 Kentucky to Kearney - 275788

TestAmerica Job ID: 500-127505-1

Client Sample ID: GP-01 (0-2)

Date Collected: 05/01/17 08:35

Date Received: 05/03/17 09:00

Lab Sample ID: 500-127505-1

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	427523	05/04/17 14:50	BAA	TAL NSH

Client Sample ID: GP-01 (0-2)

Date Collected: 05/01/17 08:35

Date Received: 05/03/17 09:00

Lab Sample ID: 500-127505-1

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	WI GRO			427841	05/05/17 15:52	CU	TAL NSH
Total/NA	Analysis	WDNR		1	428725	05/09/17 23:35	FKG	TAL NSH

Client Sample ID: GP-01 (6-8)

Date Collected: 05/01/17 08:45

Date Received: 05/03/17 09:00

Lab Sample ID: 500-127505-2

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	427523	05/04/17 14:50	BAA	TAL NSH

Client Sample ID: GP-01 (6-8)

Date Collected: 05/01/17 08:45

Date Received: 05/03/17 09:00

Lab Sample ID: 500-127505-2

Matrix: Solid

Percent Solids: 85.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	WI GRO			427841	05/05/17 15:52	CU	TAL NSH
Total/NA	Analysis	WDNR		1	428725	05/10/17 00:02	FKG	TAL NSH

Client Sample ID: GP-02 (2-4)

Date Collected: 05/01/17 09:15

Date Received: 05/03/17 09:00

Lab Sample ID: 500-127505-3

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	427523	05/04/17 14:50	BAA	TAL NSH

Client Sample ID: GP-02 (2-4)

Date Collected: 05/01/17 09:15

Date Received: 05/03/17 09:00

Lab Sample ID: 500-127505-3

Matrix: Solid

Percent Solids: 83.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	WI GRO			427841	05/05/17 15:52	CU	TAL NSH
Total/NA	Analysis	WDNR		1	428725	05/10/17 00:28	FKG	TAL NSH

TestAmerica Chicago

Lab Chronicle

Client: TRC Environmental Corporation.
Project/Site: STH 11 Kentucky to Kearney - 275788

TestAmerica Job ID: 500-127505-1

Client Sample ID: GP-02 (6-8)

Date Collected: 05/01/17 09:25

Date Received: 05/03/17 09:00

Lab Sample ID: 500-127505-4

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	427523	05/04/17 14:50	BAA	TAL NSH

Client Sample ID: GP-02 (6-8)

Date Collected: 05/01/17 09:25

Date Received: 05/03/17 09:00

Lab Sample ID: 500-127505-4

Matrix: Solid

Percent Solids: 78.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	WI GRO			427841	05/05/17 15:52	CU	TAL NSH
Total/NA	Analysis	WDNR		1	428725	05/10/17 00:55	FKG	TAL NSH

Client Sample ID: GP-02 (14-16)

Date Collected: 05/01/17 09:30

Date Received: 05/03/17 09:00

Lab Sample ID: 500-127505-5

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	427523	05/04/17 14:50	BAA	TAL NSH

Client Sample ID: GP-02 (14-16)

Date Collected: 05/01/17 09:30

Date Received: 05/03/17 09:00

Lab Sample ID: 500-127505-5

Matrix: Solid

Percent Solids: 86.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	WI GRO			427841	05/05/17 15:52	CU	TAL NSH
Total/NA	Analysis	WDNR		1	428725	05/10/17 08:30	FKG	TAL NSH

Client Sample ID: GP-03 (2-4)

Date Collected: 05/01/17 10:10

Date Received: 05/03/17 09:00

Lab Sample ID: 500-127505-6

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	383751	05/04/17 12:11	LWN	TAL CHI

Client Sample ID: GP-03 (2-4)

Date Collected: 05/01/17 10:10

Date Received: 05/03/17 09:00

Lab Sample ID: 500-127505-6

Matrix: Solid

Percent Solids: 81.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			384046	05/01/17 10:10	WRE	TAL CHI
Total/NA	Analysis	8260B		50	385134	05/15/17 12:30	TCT	TAL CHI
Total/NA	Prep	3050B			383993	05/05/17 15:07	JNH	TAL CHI
Total/NA	Analysis	6010B		1	384865	05/11/17 21:48	PJ1	TAL CHI

TestAmerica Chicago

Lab Chronicle

Client: TRC Environmental Corporation.
Project/Site: STH 11 Kentucky to Kearney - 275788

TestAmerica Job ID: 500-127505-1

Client Sample ID: GP-03 (6-8)

Date Collected: 05/01/17 10:15

Date Received: 05/03/17 09:00

Lab Sample ID: 500-127505-7

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	383751	05/04/17 12:11	LWN	TAL CHI

Client Sample ID: GP-03 (6-8)

Date Collected: 05/01/17 10:15

Date Received: 05/03/17 09:00

Lab Sample ID: 500-127505-7

Matrix: Solid

Percent Solids: 87.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			384046	05/01/17 10:15	WRE	TAL CHI
Total/NA	Analysis	8260B		50	385134	05/15/17 12:59	TCT	TAL CHI
Total/NA	Prep	3050B			383993	05/05/17 15:07	JNH	TAL CHI
Total/NA	Analysis	6010B		1	384865	05/11/17 21:52	PJ1	TAL CHI

Client Sample ID: GP-04 (2-4)

Date Collected: 05/01/17 10:35

Date Received: 05/03/17 09:00

Lab Sample ID: 500-127505-8

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	383751	05/04/17 12:11	LWN	TAL CHI

Client Sample ID: GP-04 (2-4)

Date Collected: 05/01/17 10:35

Date Received: 05/03/17 09:00

Lab Sample ID: 500-127505-8

Matrix: Solid

Percent Solids: 89.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			384046	05/01/17 10:35	WRE	TAL CHI
Total/NA	Analysis	8260B		50	385134	05/15/17 13:28	TCT	TAL CHI
Total/NA	Prep	3050B			383993	05/05/17 15:07	JNH	TAL CHI
Total/NA	Analysis	6010B		1	384865	05/11/17 21:56	PJ1	TAL CHI

Client Sample ID: GP-04 (6-8)

Date Collected: 05/01/17 10:40

Date Received: 05/03/17 09:00

Lab Sample ID: 500-127505-9

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	383751	05/04/17 12:11	LWN	TAL CHI

Client Sample ID: GP-04 (6-8)

Date Collected: 05/01/17 10:40

Date Received: 05/03/17 09:00

Lab Sample ID: 500-127505-9

Matrix: Solid

Percent Solids: 85.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			384046	05/01/17 10:40	WRE	TAL CHI

TestAmerica Chicago

Lab Chronicle

Client: TRC Environmental Corporation.
Project/Site: STH 11 Kentucky to Kearney - 275788

TestAmerica Job ID: 500-127505-1

Client Sample ID: GP-04 (6-8)

Lab Sample ID: 500-127505-9

Date Collected: 05/01/17 10:40

Matrix: Solid

Date Received: 05/03/17 09:00

Percent Solids: 85.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		50	385134	05/15/17 13:58	TCT	TAL CHI
Total/NA	Prep	3050B			383993	05/05/17 15:07	JNH	TAL CHI
Total/NA	Analysis	6010B		1	384865	05/11/17 22:01	PJ1	TAL CHI

Client Sample ID: GP-05 (2-4)

Lab Sample ID: 500-127505-10

Date Collected: 05/01/17 11:00

Matrix: Solid

Date Received: 05/03/17 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	383751	05/04/17 12:11	LWN	TAL CHI

Client Sample ID: GP-05 (2-4)

Lab Sample ID: 500-127505-10

Date Collected: 05/01/17 11:00

Matrix: Solid

Date Received: 05/03/17 09:00

Percent Solids: 82.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			384046	05/01/17 11:00	WRE	TAL CHI
Total/NA	Analysis	8260B		50	385134	05/15/17 14:27	TCT	TAL CHI
Total/NA	Prep	3050B			383993	05/05/17 15:07	JNH	TAL CHI
Total/NA	Analysis	6010B		1	384865	05/11/17 22:05	PJ1	TAL CHI

Client Sample ID: GP-05 (6-8)

Lab Sample ID: 500-127505-11

Date Collected: 05/01/17 11:10

Matrix: Solid

Date Received: 05/03/17 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			384086	05/06/17 13:35	RMP	TAL CHI
TCLP	Analysis	8260B		20	384262	05/09/17 00:42	JMP	TAL CHI
TCLP	Leach	1311			383992	05/05/17 15:05	RMP	TAL CHI
TCLP	Prep	3510C			384171	05/08/17 07:42	JJH	TAL CHI
TCLP	Analysis	8270D		1	384241	05/08/17 15:28	GES	TAL CHI
TCLP	Leach	1311			383992	05/05/17 15:05	RMP	TAL CHI
TCLP	Prep	3010A			384187	05/08/17 08:10	JEF	TAL CHI
TCLP	Analysis	6010B		1	384328	05/08/17 21:40	PJ1	TAL CHI
TCLP	Leach	1311			383992	05/05/17 15:05	RMP	TAL CHI
TCLP	Prep	7470A			384260	05/08/17 13:40	MJD	TAL CHI
TCLP	Analysis	7470A		1	384394	05/09/17 10:12	MJD	TAL CHI
Total/NA	Analysis	1010		1	384856	05/11/17 16:20 (Start) (End) 05/11/17 18:10	ADK	TAL CHI
Total/NA	Prep	9010B			384580	05/10/17 12:50	MAN	TAL CHI
Total/NA	Analysis	9014		1	384641	05/10/17 15:36 (Start) (End) 05/10/17 15:37	MAN	TAL CHI

TestAmerica Chicago

Lab Chronicle

Client: TRC Environmental Corporation.
 Project/Site: STH 11 Kentucky to Kearney - 275788

TestAmerica Job ID: 500-127505-1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	9030B			385245	05/15/17 17:36	JBJ	TAL CHI
Total/NA	Analysis	9034		1	385402	05/15/17 21:48	JBJ	TAL CHI
Total/NA	Analysis	9045C		1	384553	(Start) 05/09/17 16:02 (End) 05/09/17 16:04	SMO	TAL CHI
Total/NA	Analysis	9095A		1	384855	(Start) 05/11/17 22:39 (End) 05/11/17 22:41	ADK	TAL CHI
Total/NA	Analysis	Moisture		1	383751	05/04/17 12:11	LWN	TAL CHI
Total/NA	Analysis	SM 2710F		1	385047	(Start) 05/12/17 22:07 (End) 05/12/17 22:11	ADK	TAL CHI

Client Sample ID: GP-05 (6-8)

Lab Sample ID: 500-127505-11

Date Collected: 05/01/17 11:10

Matrix: Solid

Date Received: 05/03/17 09:00

Percent Solids: 86.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	WI GRO			384046	05/01/17 11:10	WRE	TAL CHI
Total/NA	Analysis	8260B		50	385134	05/15/17 14:56	TCT	TAL CHI
Total/NA	Prep	WI GRO			384046	05/01/17 11:10	WRE	TAL CHI
Total/NA	Analysis	WI-GRO		50	384093	05/07/17 21:31	WRE	TAL CHI
Total/NA	Prep	3541			384456	05/09/17 16:38	JP1	TAL CHI
Total/NA	Analysis	8082A		1	384545	05/10/17 13:35	BJH	TAL CHI
Total/NA	Prep	WI DRO PREP			383737	05/04/17 11:15	LMC	TAL CHI
Total/NA	Analysis	WI-DRO		1	383957	05/05/17 15:38	SAW	TAL CHI
Total/NA	Prep	3050B			383993	05/05/17 15:07	JNH	TAL CHI
Total/NA	Analysis	6010B		1	384865	05/11/17 22:09	PJ1	TAL CHI

Client Sample ID: GP-05 (14-16)

Lab Sample ID: 500-127505-12

Date Collected: 05/01/17 11:20

Matrix: Solid

Date Received: 05/03/17 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	383751	05/04/17 12:11	LWN	TAL CHI

Client Sample ID: GP-05 (14-16)

Lab Sample ID: 500-127505-12

Date Collected: 05/01/17 11:20

Matrix: Solid

Date Received: 05/03/17 09:00

Percent Solids: 87.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			384046	05/01/17 11:20	WRE	TAL CHI
Total/NA	Analysis	8260B		50	385134	05/15/17 15:25	TCT	TAL CHI
Total/NA	Prep	3050B			383993	05/05/17 15:07	JNH	TAL CHI
Total/NA	Analysis	6010B		1	384865	05/11/17 22:14	PJ1	TAL CHI

TestAmerica Chicago

Lab Chronicle

Client: TRC Environmental Corporation.
Project/Site: STH 11 Kentucky to Kearney - 275788

TestAmerica Job ID: 500-127505-1

Client Sample ID: GP-06 (2-4)

Lab Sample ID: 500-127505-13

Date Collected: 05/01/17 12:00

Matrix: Solid

Date Received: 05/03/17 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	427523	05/04/17 14:50	BAA	TAL NSH

Client Sample ID: GP-06 (2-4)

Lab Sample ID: 500-127505-13

Date Collected: 05/01/17 12:00

Matrix: Solid

Date Received: 05/03/17 09:00

Percent Solids: 80.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	WI GRO			427841	05/05/17 15:52	CU	TAL NSH
Total/NA	Analysis	WDNR		1	428725	05/10/17 01:22	FKG	TAL NSH

Client Sample ID: GP-06 (6-8)

Lab Sample ID: 500-127505-14

Date Collected: 05/01/17 12:05

Matrix: Solid

Date Received: 05/03/17 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	427523	05/04/17 14:50	BAA	TAL NSH

Client Sample ID: GP-06 (6-8)

Lab Sample ID: 500-127505-14

Date Collected: 05/01/17 12:05

Matrix: Solid

Date Received: 05/03/17 09:00

Percent Solids: 84.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	WI GRO			427841	05/05/17 15:52	CU	TAL NSH
Total/NA	Analysis	WDNR		1	428725	05/10/17 01:49	FKG	TAL NSH

Client Sample ID: GP-07 (2-4)

Lab Sample ID: 500-127505-15

Date Collected: 05/01/17 12:30

Matrix: Solid

Date Received: 05/03/17 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	427523	05/04/17 14:50	BAA	TAL NSH

Client Sample ID: GP-07 (2-4)

Lab Sample ID: 500-127505-15

Date Collected: 05/01/17 12:30

Matrix: Solid

Date Received: 05/03/17 09:00

Percent Solids: 79.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	WI GRO			427841	05/05/17 15:52	CU	TAL NSH
Total/NA	Analysis	WDNR		1	428725	05/10/17 02:15	FKG	TAL NSH

TestAmerica Chicago

Lab Chronicle

Client: TRC Environmental Corporation.
Project/Site: STH 11 Kentucky to Kearney - 275788

TestAmerica Job ID: 500-127505-1

Client Sample ID: GP-07 (6-8)

Lab Sample ID: 500-127505-16

Date Collected: 05/01/17 12:35

Matrix: Solid

Date Received: 05/03/17 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			384086	05/06/17 13:35	RMP	TAL CHI
TCLP	Analysis	8260B		20	384262	05/09/17 01:09	JMP	TAL CHI
TCLP	Leach	1311			383992	05/05/17 15:05	RMP	TAL CHI
TCLP	Prep	3510C			384171	05/08/17 07:42	JJH	TAL CHI
TCLP	Analysis	8270D		1	384241	05/08/17 17:46	GES	TAL CHI
TCLP	Leach	1311			383992	05/05/17 15:05	RMP	TAL CHI
TCLP	Prep	3010A			384187	05/08/17 08:10	JEF	TAL CHI
TCLP	Analysis	6010B		1	384328	05/08/17 21:45	PJ1	TAL CHI
TCLP	Leach	1311			383992	05/05/17 15:05	RMP	TAL CHI
TCLP	Prep	7470A			384260	05/08/17 13:40	MJD	TAL CHI
TCLP	Analysis	7470A		1	384394	05/09/17 10:13	MJD	TAL CHI
Total/NA	Analysis	1010		1	384856		ADK	TAL CHI
						(Start) 05/11/17 18:10		
						(End) 05/11/17 20:00		
Total/NA	Prep	9010B			384580	05/10/17 12:50	MAN	TAL CHI
Total/NA	Analysis	9014		1	384641		MAN	TAL CHI
						(Start) 05/10/17 15:37		
						(End) 05/10/17 15:37		
Total/NA	Prep	9030B			385245	05/15/17 17:36	JBj	TAL CHI
Total/NA	Analysis	9034		1	385402	05/15/17 21:49	JBj	TAL CHI
Total/NA	Analysis	9045C		1	384553		SMO	TAL CHI
						(Start) 05/09/17 16:04		
						(End) 05/09/17 16:06		
Total/NA	Analysis	9095A		1	384855		ADK	TAL CHI
						(Start) 05/11/17 22:41		
						(End) 05/11/17 22:43		
Total/NA	Analysis	Moisture		1	383751	05/04/17 12:11	LWN	TAL CHI
Total/NA	Analysis	SM 2710F		1	385047		ADK	TAL CHI
						(Start) 05/12/17 22:11		
						(End) 05/12/17 22:15		

Client Sample ID: GP-07 (6-8)

Lab Sample ID: 500-127505-16

Date Collected: 05/01/17 12:35

Matrix: Solid

Date Received: 05/03/17 09:00

Percent Solids: 87.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	WI GRO			427841	05/05/17 15:52	CU	TAL NSH
Total/NA	Analysis	WDNR		1	428725	05/10/17 02:42	FKG	TAL NSH
Total/NA	Prep	3541			384456	05/09/17 16:38	JP1	TAL CHI
Total/NA	Analysis	8082A		1	384545	05/10/17 13:50	BJH	TAL CHI
Total/NA	Prep	WI DRO PREP			383737	05/04/17 11:15	LMC	TAL CHI
Total/NA	Analysis	WI-DRO		1	383957	05/05/17 16:14	SAW	TAL CHI

TestAmerica Chicago

Lab Chronicle

Client: TRC Environmental Corporation.
Project/Site: STH 11 Kentucky to Kearney - 275788

TestAmerica Job ID: 500-127505-1

Client Sample ID: GP-07 (14-16)

Lab Sample ID: 500-127505-17

Date Collected: 05/01/17 12:50

Matrix: Solid

Date Received: 05/03/17 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	427523	05/04/17 14:50	BAA	TAL NSH

Client Sample ID: GP-07 (14-16)

Lab Sample ID: 500-127505-17

Date Collected: 05/01/17 12:50

Matrix: Solid

Date Received: 05/03/17 09:00

Percent Solids: 86.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	WI GRO			427841	05/05/17 15:52	CU	TAL NSH
Total/NA	Analysis	WDNR		1	428725	05/10/17 03:09	FKG	TAL NSH

Client Sample ID: GP-08 (2-4)

Lab Sample ID: 500-127505-18

Date Collected: 05/01/17 13:45

Matrix: Solid

Date Received: 05/03/17 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	427523	05/04/17 14:50	BAA	TAL NSH

Client Sample ID: GP-08 (2-4)

Lab Sample ID: 500-127505-18

Date Collected: 05/01/17 13:45

Matrix: Solid

Date Received: 05/03/17 09:00

Percent Solids: 88.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	WI GRO			427841	05/05/17 15:52	CU	TAL NSH
Total/NA	Analysis	WDNR		1	428725	05/10/17 08:04	FKG	TAL NSH
Total/NA	Prep	3050B			383993	05/05/17 15:07	JNH	TAL CHI
Total/NA	Analysis	6010B		1	384865	05/11/17 22:19	PJ1	TAL CHI

Client Sample ID: GP-08 (6-8)

Lab Sample ID: 500-127505-19

Date Collected: 05/01/17 13:50

Matrix: Solid

Date Received: 05/03/17 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	427523	05/04/17 14:50	BAA	TAL NSH

Client Sample ID: GP-08 (6-8)

Lab Sample ID: 500-127505-19

Date Collected: 05/01/17 13:50

Matrix: Solid

Date Received: 05/03/17 09:00

Percent Solids: 89.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	WI GRO			427841	05/05/17 15:52	CU	TAL NSH
Total/NA	Analysis	WDNR		1	428725	05/10/17 03:36	FKG	TAL NSH
Total/NA	Prep	3050B			383993	05/05/17 15:07	JNH	TAL CHI

TestAmerica Chicago

Lab Chronicle

Client: TRC Environmental Corporation.
Project/Site: STH 11 Kentucky to Kearney - 275788

TestAmerica Job ID: 500-127505-1

Client Sample ID: GP-08 (6-8)

Date Collected: 05/01/17 13:50

Date Received: 05/03/17 09:00

Lab Sample ID: 500-127505-19

Matrix: Solid

Percent Solids: 89.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	6010B		1	384865	05/11/17 22:31	PJ1	TAL CHI

Client Sample ID: GP-09 (2-4)

Date Collected: 05/01/17 14:20

Date Received: 05/03/17 09:00

Lab Sample ID: 500-127505-20

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	427523	05/04/17 14:50	BAA	TAL NSH

Client Sample ID: GP-09 (2-4)

Date Collected: 05/01/17 14:20

Date Received: 05/03/17 09:00

Lab Sample ID: 500-127505-20

Matrix: Solid

Percent Solids: 85.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	WI GRO			427841	05/05/17 15:52	CU	TAL NSH
Total/NA	Analysis	WDNR		1	428725	05/10/17 05:23	FKG	TAL NSH
Total/NA	Prep	3050B			383993	05/05/17 15:07	JNH	TAL CHI
Total/NA	Analysis	6010B		1	384865	05/11/17 22:35	PJ1	TAL CHI

Client Sample ID: GP-09 (6-8)

Date Collected: 05/01/17 14:25

Date Received: 05/03/17 09:00

Lab Sample ID: 500-127505-21

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	427523	05/04/17 14:50	BAA	TAL NSH

Client Sample ID: GP-09 (6-8)

Date Collected: 05/01/17 14:25

Date Received: 05/03/17 09:00

Lab Sample ID: 500-127505-21

Matrix: Solid

Percent Solids: 84.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	WI GRO			427841	05/05/17 15:52	CU	TAL NSH
Total/NA	Analysis	WDNR		1	428725	05/10/17 05:50	FKG	TAL NSH
Total/NA	Prep	3050B			383993	05/05/17 15:07	JNH	TAL CHI
Total/NA	Analysis	6010B		1	384865	05/11/17 22:40	PJ1	TAL CHI

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

Date Collected: 05/01/17 14:35

Date Received: 05/03/17 09:00

Lab Sample ID: 500-127505-22

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	427523	05/04/17 14:50	BAA	TAL NSH

TestAmerica Chicago

Lab Chronicle

Client: TRC Environmental Corporation.
Project/Site: STH 11 Kentucky to Kearney - 275788

TestAmerica Job ID: 500-127505-1

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

Lab Sample ID: 500-127505-22

Date Collected: 05/01/17 14:35

Matrix: Solid

Date Received: 05/03/17 09:00

Percent Solids: 83.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	WI GRO			427841	05/05/17 15:52	CU	TAL NSH
Total/NA	Analysis	WDNR		1	428725	05/10/17 06:16	FKG	TAL NSH
Total/NA	Prep	3050B			383993	05/05/17 15:07	JNH	TAL CHI
Total/NA	Analysis	6010B		1	384865	05/11/17 22:44	PJ1	TAL CHI

Client Sample ID: GP-10 (6-8)

Lab Sample ID: 500-127505-23

Date Collected: 05/01/17 14:40

Matrix: Solid

Date Received: 05/03/17 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	427540	05/04/17 15:20	BAA	TAL NSH

Client Sample ID: GP-10 (6-8)

Lab Sample ID: 500-127505-23

Date Collected: 05/01/17 14:40

Matrix: Solid

Date Received: 05/03/17 09:00

Percent Solids: 84.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	WI GRO			427841	05/05/17 15:52	CU	TAL NSH
Total/NA	Analysis	WDNR		1	428725	05/10/17 06:43	FKG	TAL NSH
Total/NA	Prep	3050B			383993	05/05/17 15:07	JNH	TAL CHI
Total/NA	Analysis	6010B		1	384865	05/11/17 22:47	PJ1	TAL CHI

Client Sample ID: GP-11 (2-4)

Lab Sample ID: 500-127505-24

Date Collected: 05/01/17 15:00

Matrix: Solid

Date Received: 05/03/17 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	427540	05/04/17 15:20	BAA	TAL NSH

Client Sample ID: GP-11 (2-4)

Lab Sample ID: 500-127505-24

Date Collected: 05/01/17 15:00

Matrix: Solid

Date Received: 05/03/17 09:00

Percent Solids: 88.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	WI GRO			427841	05/05/17 15:52	CU	TAL NSH
Total/NA	Analysis	WDNR		1	428725	05/10/17 07:10	FKG	TAL NSH
Total/NA	Prep	3050B			383993	05/05/17 15:07	JNH	TAL CHI
Total/NA	Analysis	6010B		1	384865	05/11/17 22:50	PJ1	TAL CHI

TestAmerica Chicago

Lab Chronicle

Client: TRC Environmental Corporation.
Project/Site: STH 11 Kentucky to Kearney - 275788

TestAmerica Job ID: 500-127505-1

Client Sample ID: GP-11 (6-8)

Lab Sample ID: 500-127505-25

Date Collected: 05/01/17 15:05

Matrix: Solid

Date Received: 05/03/17 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			384086	05/06/17 13:35	RMP	TAL CHI
TCLP	Analysis	8260B		20	384262	05/09/17 01:35	JMP	TAL CHI
TCLP	Leach	1311			383992	05/05/17 15:05	RMP	TAL CHI
TCLP	Prep	3510C			384171	05/08/17 07:42	JJH	TAL CHI
TCLP	Analysis	8270D		1	384241	05/08/17 18:13	GES	TAL CHI
TCLP	Leach	1311			383992	05/05/17 15:05	RMP	TAL CHI
TCLP	Prep	3010A			384187	05/08/17 08:10	JEF	TAL CHI
TCLP	Analysis	6010B		1	384328	05/08/17 21:50	PJ1	TAL CHI
TCLP	Leach	1311			383992	05/05/17 15:05	RMP	TAL CHI
TCLP	Prep	7470A			384260	05/08/17 13:40	MJD	TAL CHI
TCLP	Analysis	7470A		1	384394	05/09/17 10:15	MJD	TAL CHI
Total/NA	Analysis	1010		1	384856		ADK	TAL CHI
					(Start)	05/11/17 20:00		
					(End)	05/11/17 21:50		
Total/NA	Prep	9010B			384580	05/10/17 12:50	MAN	TAL CHI
Total/NA	Analysis	9014		1	384641		MAN	TAL CHI
					(Start)	05/10/17 15:37		
					(End)	05/10/17 15:37		
Total/NA	Prep	9030B			385245	05/15/17 17:36	JBj	TAL CHI
Total/NA	Analysis	9034		1	385402	05/15/17 21:51	JBj	TAL CHI
Total/NA	Analysis	9045C		1	384553		SMO	TAL CHI
					(Start)	05/09/17 16:06		
					(End)	05/09/17 16:08		
Total/NA	Analysis	9095A		1	384855		ADK	TAL CHI
					(Start)	05/11/17 22:43		
					(End)	05/11/17 22:45		
Total/NA	Analysis	Moisture		1	383751	05/04/17 12:11	LWN	TAL CHI
Total/NA	Analysis	SM 2710F		1	385047		ADK	TAL CHI
					(Start)	05/12/17 22:15		
					(End)	05/12/17 22:19		

Client Sample ID: GP-11 (6-8)

Lab Sample ID: 500-127505-25

Date Collected: 05/01/17 15:05

Matrix: Solid

Date Received: 05/03/17 09:00

Percent Solids: 89.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	WI GRO			427841	05/05/17 15:52	CU	TAL NSH
Total/NA	Analysis	WDNR		1	428725	05/10/17 07:37	FKG	TAL NSH
Total/NA	Prep	3541			384456	05/09/17 16:38	JP1	TAL CHI
Total/NA	Analysis	8082A		1	384545	05/10/17 14:06	BJH	TAL CHI
Total/NA	Prep	WI DRO PREP			383737	05/04/17 11:15	LMC	TAL CHI
Total/NA	Analysis	WI-DRO		1	383957	05/05/17 16:49	SAW	TAL CHI
Total/NA	Prep	3050B			383993	05/05/17 15:07	JNH	TAL CHI
Total/NA	Analysis	6010B		1	384865	05/11/17 22:53	PJ1	TAL CHI

TestAmerica Chicago

Lab Chronicle

Client: TRC Environmental Corporation.
Project/Site: STH 11 Kentucky to Kearney - 275788

TestAmerica Job ID: 500-127505-1

Client Sample ID: Trip Blank

Lab Sample ID: 500-127505-26

Date Collected: 05/01/17 00:00

Matrix: Solid

Date Received: 05/03/17 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	383751	05/04/17 12:11	LWN	TAL CHI

Client Sample ID: Trip Blank

Lab Sample ID: 500-127505-26

Date Collected: 05/01/17 00:00

Matrix: Solid

Date Received: 05/03/17 09:00

Percent Solids: 100.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			384046	05/01/17 00:00	WRE	TAL CHI
Total/NA	Analysis	8260B		50	385134	05/15/17 15:55	TCT	TAL CHI

Laboratory References:

SFAL = SF Analytical Laboratories, 2345 South 170th Street, New Berlin, WI 53151

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

TAL NSH = TestAmerica Nashville, 2960 Foster Creighton Drive, Nashville, TN 37204, TEL (615)726-0177

Accreditation/Certification Summary

Client: TRC Environmental Corporation.
Project/Site: STH 11 Kentucky to Kearney - 275788

TestAmerica Job ID: 500-127505-1

Laboratory: TestAmerica Chicago

The accreditations/certifications listed below are applicable to this report.

Authority	Program	EPA Region	Identification Number	Expiration Date
Wisconsin	State Program	5	999580010	08-31-17

Laboratory: TestAmerica Nashville

The accreditations/certifications listed below are applicable to this report.

Authority	Program	EPA Region	Identification Number	Expiration Date
Wisconsin	State Program	5	998020430	08-31-17

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15
- 16

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: _____
 Address: _____
 Phone: _____
 Fax: _____
 E-Mail: _____

Bill To (optional)
 Contact: _____
 Company: _____
 Address: _____
 Address: _____
 Phone: _____
 Fax: _____
 PO#/Reference# _____

Chain of Custody Record

Lab Job #: 500-127505
 Chain of Custody Number: _____
 Page 2 of 3
 Temperature °C of Cooler: _____

Client		Client Project #		Preservative		Parameter		Matrix		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		Lab Project #		Sampling		Containers		Matrix					
Project Location/State		Lab PM		Date	Time	# of	Matrix						
TRC		275788				1 1 8 1 8 8							
STH II - Kentucky to Kearney													
Racine, WI													
M. Kahiles													
Lab ID	MS/MSD	Sample ID	Date	Time	# of Containers	Matrix	PYOCs + Nap	VOCS	Lead	GPLO	DEO	Protocol B	Comments
11		GP-05 (6-8)	5/01	1110	4	S		X	X	X	X	X	
12		GP-05 (14-16)	↓	1120	3			X	X				
13		GP-06 (2-4)		1200	2		X						
14		GP-06 (6-8)		1205	2		X						
15		GP-07 (2-4)		1230	2		X						
16		GP-07 (6-8)		1235	4		X			X	X	X	
17		GP-07 (14-16)		1250	2		X						
18		GP-08 (2-4)		1345	3		X		X				
19		GP-08 (6-8)		1350	3		X		X				
20		GP-09 (2-4)		1420	3		X		X				

Turnaround Time Required (Business Days)
 ___ 1 Day ___ 2 Days ___ 5 Days ___ 7 Days 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>5/01/17</u>	Time <u>1630</u>	Received By <u>[Signature]</u>	Company <u>TA</u>	Date <u>05/03/17</u>	Time <u>0900</u>
Relinquished By _____	Company _____	Date _____	Time _____	Received By _____	Company _____	Date _____	Time _____
Relinquished By _____	Company _____	Date _____	Time _____	Received By _____	Company _____	Date _____	Time _____

Lab Courier _____
 Shipped _____
 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: _____
 Address: _____
 Address: _____
 Phone: _____
 Fax: _____
 E-Mail: _____

Bill To (optional)
 Contact: _____
 Company: _____
 Address: _____
 Address: _____
 Phone: _____
 Fax: _____
 PO#/Reference#: _____

Chain of Custody Record

Lab Job #: 500-127505
 Chain of Custody Number: _____
 Page 3 of 3
 Temperature °C of Cooler: _____

Client		Client Project #		Preservative		Parameter		Sample Disposal		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		Lab Project #		# of Containers		Matrix		Return to Client		
Project Location/State		Lab PM		Date		Time		Disposal by Lab		
TRC		275788		1 8		1 8 8 1		<input type="checkbox"/>		Comments PNOCS+NOB Lead GRO DRO Protocol B VOCs
STH 11 - Keokuk to Kentucky								<input type="checkbox"/>		
Rouine, WI								<input type="checkbox"/>		
M. Karkilas								<input type="checkbox"/>		
Lab ID	MS/MSD	Sample ID	Date	Time	# of Containers	Matrix				
21		GP-09 (6-8)	5/01	1425	3	5	X	X		
22		GP-10 (2-4)		1435			X	X		
23		GP-10 (6-8)		1440			X	X		
24		GP-11 (2-4)		1500			X	X		
25		GP-11 (6-8)		1505	5		X	X	X	
26		TRIP BLANK			2				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 <i>MK</i>	Company TRC	Date 5/01/17	Time 1630	Received By <i>Smk</i>	Company TA	Date 05/03/17	Time 0900
Relinquished By	Company	Date	Time	Received By	Company	Date	Time
Relinquished By	Company	Date	Time	Received By	Company	Date	Time

Lab Courier: _____
 Shipped: _____
 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:

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15
- 16

ORIGIN ID: RRLA (262) 901-2153
 MIRANDA KARRILAS
 TRC ENVIRONMENTAL
 150 N PATRICK BL VD, SUITE 180
 BROOKFIELD, WI 53045
 UNITED STATES US

SHIP DATE: 01MAY17
 ACTWGST: 25.00 LB
 CND: 110326#82ZINET3850

BILL RECIPIENT

TO ATTN: SAMPLE RECEIVING
 TEST AMERICA - CHICAGO
 2417 BOND ST

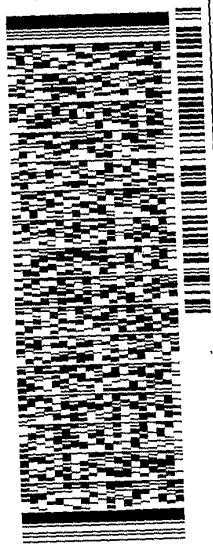


546J1.6734/53C1

UNIVERSITY PARK IL 60484

REF: (708) 534-5200
 NV, IN, DEPT

500-127505 Waybill



J171117021401uv

1 of 2

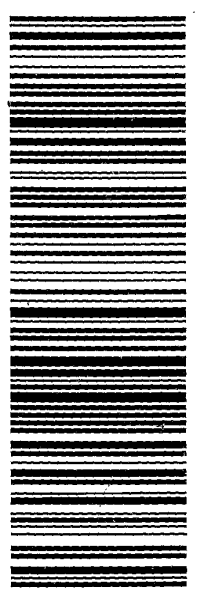
TUE - 02 MAY 10:30A
 PRIORITY OVERNIGHT

FedEx
 TRK# 7790 3027 5856
 0201

TUE - 02 MAY 10:30A
 PRIORITY OVERNIGHT

79 JOTA

60484
 IL-US
 ORD



FTD 76300 02MAY17 MKER 546C1/6734/8C3A

ORIGIN ID: RRLA (262) 901-2153
 MIRANDA KARRILAS
 TRC ENVIRONMENTAL
 150 N PATRICK BL VD, SUITE 180
 BROOKFIELD, WI 53045
 UNITED STATES US

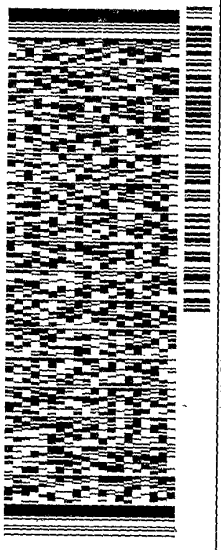
SHIP DATE: 01MAY17
 ACTWGST: 25.00 LB
 CND: 110326#82ZINET3850

BILL RECIPIENT

TO ATTN: SAMPLE RECEIVING
 TEST AMERICA - CHICAGO
 2417 BOND ST

UNIVERSITY PARK IL 60484

REF: (708) 534-5200
 NV, IN, DEPT



J171117021401uv

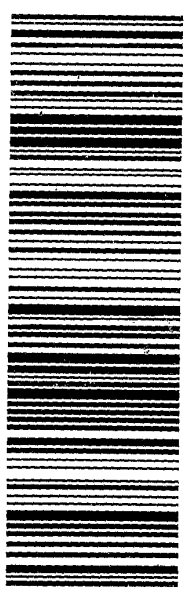
2 of 2

TUE - 02 MAY 10:30A
 PRIORITY OVERNIGHT

MP# 7790 3027 6782
 0263
 WSt# 7790 3027 5856
 0201

79 JOTA

60484
 IL-US
 ORD



NOT FOR USING THIS TAG

COOLER RECEIPT FORM



500-127505-01 Chain of Custody

Cooler Received/Opened On 5/4/2017 @ 0945

Time Samples Removed From Cooler 13:50 Time Samples Placed In Storage _____ (2 Hour Window)

1. Tracking # 3984 (last 4 digits, FedEx) Courier: FedEx

IR Gun ID 160656843 pH Strip Lot _____ Chlorine Strip Lot _____

2. Temperature of rep. sample or temp blank when opened: 27 Degrees Celsius

3. If Item #2 temperature is 0°C or less, was the representative sample or temp blank frozen? YES NO NA

4. Were custody seals on outside of cooler? YES...NO...NA

If yes, how many and where: 2 front / back

5. Were the seals intact, signed, and dated correctly? YES...NO...NA

6. Were custody papers inside cooler? YES...NO...NA

I certify that I opened the cooler and answered questions 1-6 (initial) HFG

7. Were custody seals on containers: YES NO and Intact YES...NO... NA

Were these signed and dated correctly? YES...NO... NA

8. Packing mat'l used? Bubblewrap Plastic bag Peanuts Vermiculite Foam Insert Paper Other None

9. Cooling process: Ice Ice-pack Ice (direct contact) Dry ice Other None

10. Did all containers arrive in good condition (unbroken)? YES...NO...NA

11. Were all container labels complete (#, date, signed, pres., etc)? YES...NO...NA

12. Did all container labels and tags agree with custody papers? YES...NO...NA

13a. Were VOA vials received? YES...NO...NA

b. Was there any observable headspace present in any VOA vial? YES...NO... NA

14. Was there a Trip Blank in this cooler? YES... NO...NA If multiple coolers, sequence # _____

I certify that I unloaded the cooler and answered questions 7-14 (initial) _____

15a. On pres'd bottles, did pH test strips suggest preservation reached the correct pH level? YES...NO... NA

b. Did the bottle labels indicate that the correct preservatives were used YES...NO...NA

16. Was residual chlorine present? YES...NO... NA

I certify that I checked for chlorine and pH as per SOP and answered questions 15-16 (initial) _____

17. Were custody papers properly filled out (ink, signed, etc)? YES...NO...NA

18. Did you sign the custody papers in the appropriate place? YES...NO...NA

19. Were correct containers used for the analysis requested? YES...NO...NA

20. Was sufficient amount of sample sent in each container? YES...NO...NA

I certify that I entered this project into LIMS and answered questions 17-20 (initial) _____

I certify that I attached a label with the unique LIMS number to each container (initial) _____

21. Were there Non-Conformance issues at login? YES...NO Was a NCM generated? YES... NO...# _____

TestAmerica Chicago

2417 Bond Street
University Park, IL 60494
Phone (708) 534-5200 Fax (708) 534-5211

Chain of Custody Record

Loc: 500
127505



Client Information (Sub Contract Lab)

Company: TestAmerica Laboratories, Inc
Address: 2960 Foster Creighton Drive,
City: Nashville
State, Zip: TN, 37204
Phone: 615-726-0177(Tel) 615-726-3404(Fax)
Email:

Lab Pk: Fredrick, Sandie J
E-Mail: sandie.fredrick@testamericainc.com
Accreditations Required (See note): State Program - Wisconsin

Wisconsin

COC No: 500-86708-1
Page: Page 1 of 2

Due Date Requested: 5/14/2017
TAT Requested (days):

Analysis Requested

Job #: 500-127505-1
Preservation Codes:

Project Name: STH 111 Kentucky to Kearney - 275788
Project #: 50010540
SSOW#:
Field Filtered Sample (Yes or No)
Perform MS/MSD (Yes or No)
Moisture/ Percent Moisture/Solids
WI_GRO/WIGRO_P_FM PVOC+NAP

Total Number of containers		2
----------------------------	--	---

- A - HCL
- B - NaOH
- C - Zn Acetate
- D - Nitric Acid
- E - NaHSO4
- F - MeOH
- G - Anchlor
- H - Ascorbic Acid
- I - Ice
- J - DI Water
- K - EDTA
- L - EDA
- M - Hexane
- N - None
- O - ASH602
- P - Na2OAS
- Q - Na2SO3
- R - Na2S2O3
- S - H2SO4
- T - TSP Dodecylhydrate
- U - Acetone
- V - MCAA
- W - PH 4-5
- Z - other (specify)

Sample Identification - Client ID (Lab ID)

Sample ID	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix (Mineral, Synthetic, Organics, etc.)	Preservation Code	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	Moisture/ Percent Moisture/Solids	WI_GRO/WIGRO_P_FM PVOC+NAP	Total Number of containers	Special Instructions/Note:
GP-01 (0-2) (500-127505-1)	5/1/17	08:35	Central	Solid		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			2	
GP-01 (6-8) (500-127505-2)	5/1/17	08:45	Central	Solid		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			2	
GP-02 (2-4) (500-127505-3)	5/1/17	09:15	Central	Solid		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			2	
GP-02 (6-8) (500-127505-4)	5/1/17	09:25	Central	Solid		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			2	
GP-02 (14-16) (500-127505-5)	5/1/17	09:30	Central	Solid		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			2	
GP-06 (2-4) (500-127505-13)	5/1/17	12:00	Central	Solid		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			2	
GP-06 (6-8) (500-127505-14)	5/1/17	12:05	Central	Solid		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			2	
GP-07 (2-4) (500-127505-15)	5/1/17	12:30	Central	Solid		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			2	
GP-07 (6-8) (500-127505-16)	5/1/17	12:35	Central	Solid		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			1	

Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon our subcontracted laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analytes/matrix being analyzed, the samples must be shipped back to the TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to TestAmerica Laboratories, Inc. attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to TestAmerica Laboratories, Inc.

Possible Hazard Identification

Unconfirmed
Deliverable Requested: I, II, III, IV, Other (specify)
Primary Deliverable Rank: 2

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
 Return To Client Disposal By Lab Archive For _____ Months

Empty Kit Relinquished by: _____ Date: _____ Time: _____ Method of Shipment: _____

Relinquished by: *Sandy* Date/Time: 05/03/17 1600 Company: TA Received by: _____ Date/Time: _____ Company: _____

Relinquished by: _____ Date/Time: _____ Company: _____ Received by: *Samuel* Date/Time: 5.4.17 Company: OWS TXL

Custody Seals Intact: Yes No Custody Seal No.: _____ Cooler Temperature(s) °C and Other Remarks: 2.7

COOLER RECEIPT FORM



Cooler Received/Opened On 5/4/2017 @ 0945
 Time Samples Removed From Cooler 13:50 Time Samples Placed In Storage _____ (2 Hour Window)

1. Tracking # 3984 (last 4 digits, FedEx) Courier: FedEx

IR Gun ID 160656843 pH Strip Lot _____ Chlorine Strip Lot _____

2. Temperature of rep. sample or temp blank when opened: 27 Degrees Celsius

3. If Item #2 temperature is 0°C or less, was the representative sample or temp blank frozen? YES NO NA

4. Were custody seals on outside of cooler? YES...NO...NA

If yes, how many and where: 2 front/back

5. Were the seals intact, signed, and dated correctly? YES...NO...NA

6. Were custody papers inside cooler? YES...NO...NA

I certify that I opened the cooler and answered questions 1-6 (initial) HSG

7. Were custody seals on containers: YES NO and Intact YES...NO... NA

Were these signed and dated correctly? YES...NO... NA

8. Packing mat'l used? Bubblewrap Plastic bag Peanuts Vermiculite Foam Insert Paper Other None

9. Cooling process: Ice Ice-pack Ice (direct contact) Dry ice Other None

10. Did all containers arrive in good condition (unbroken)? YES...NO...NA

11. Were all container labels complete (#, date, signed, pres., etc)? YES...NO...NA

12. Did all container labels and tags agree with custody papers? YES...NO...NA

13a. Were VOA vials received? YES...NO...NA

b. Was there any observable headspace present in any VOA vial? YES...NO... NA

14. Was there a Trip Blank in this cooler? YES... NO...NA If multiple coolers, sequence # B

I certify that I unloaded the cooler and answered questions 7-14 (initial) B

15a. On pres'd bottles, did pH test strips suggest preservation reached the correct pH level? YES...NO... NA

b. Did the bottle labels indicate that the correct preservatives were used YES...NO...NA

16. Was residual chlorine present? YES...NO... NA

I certify that I checked for chlorine and pH as per SOP and answered questions 15-16 (initial) [Signature]

17. Were custody papers properly filled out (ink, signed, etc)? YES...NO...NA

18. Did you sign the custody papers in the appropriate place? YES...NO...NA

19. Were correct containers used for the analysis requested? YES...NO...NA

20. Was sufficient amount of sample sent in each container? YES...NO...NA

I certify that I entered this project into LIMS and answered questions 17-20 (initial) [Signature]

I certify that I attached a label with the unique LIMS number to each container (initial) [Signature]

21. Were there Non-Conformance issues at login? YES...NO Was a NCM generated? YES... NO # _____

TestAmerica Chicago

2417 Bond Street
 University Park, IL 60484
 Phone (708) 534-5200 Fax (708) 534-5211

Chain of Custody Record

Loc: 500
 127505



Client Information (Sub Contract Lab)

Client Contact: **TestAmerica Laboratories, Inc**
 Shipping/Receiving: **TestAmerica Laboratories, Inc**
 Address: **2960 Foster Creighton Drive, Nashville, TN, 37204**
 City: **Nashville**
 State, Zip: **TN, 37204**
 Phone: **615-726-0177 (Tel) 615-726-3404 (Fax)**
 Email: **WO #**
 Project Name: **STH 11 Kentucky to Kearney - 275788**
 SOW#: **50010540**
 Project #: **50010540**
 SOW#: **SSOW#**

Sampler: **Frederick, Sample J**
 Lab P/N: **Frederick, Sample J**
 E-Mail: **sample.frederick@testamericainc.com**
 Accreditation Required (See note): **State Program - Wisconsin**

Due Date Requested: **5/4/2017**
 TAT Requested (days): **Analysis Requested**

COC No: **500-86708.2**
 Page: **Page 2 of 2**
 Job #: **500-127505-1**

Preservation Codes:
 A - HCL M - Hexane
 B - NaOH N - None
 C - Zn Acetate O - ASNSO2
 D - Nitric Acid P - Na2O4S
 E - NH4SO4 Q - Na2SO3
 F - MeOH R - Na2S2O3
 G - Amchlor S - H2SO4
 H - Ascorbic Acid T - TSP Dodecahydrate
 I - Ice U - Acetone
 J - DI Water V - MCAA
 K - EDTA W - pH 4-5
 L - EDTA Z - other (specify)
 Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (Yucca, Sawdust, Biomass, Ash)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	Moisture/ Percent Moisture/Solids	WI_GRO/WIGRO_P_FM PVOC+NAP	Total Number of containers	Special Instructions/Note:
GP-07 (14-16) (500-127505-17)	5/1/17	12:50	Central	Solid	X	X				
GP-08 (2-4) (500-127505-18)	5/1/17	13:45	Central	Solid	X	X				
GP-08 (6-8) (500-127505-19)	5/1/17	13:50	Central	Solid	X	X				
GP-09 (2-4) (500-127505-20)	5/1/17	14:20	Central	Solid	X	X				
GP-09 (6-8) (500-127505-21)	5/1/17	14:25	Central	Solid	X	X				
GP-10 (2-4) (500-127505-22)	5/1/17	14:35	Central	Solid	X	X				
GP-10 (6-8) (500-127505-23)	5/1/17	14:40	Central	Solid	X	X				
GP-11 (2-4) (500-127505-24)	5/1/17	15:00	Central	Solid	X	X				
GP-11 (6-8) (500-127505-25)	5/1/17	15:05	Central	Solid	X	X				

Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyze & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. 1

Possible Hazard Identification

Deliverable Requested: **I, II, III, IV, Other (specify)** Primary Deliverable Rank: **2**

Special Instructions/QC Requirements: Return To Client Disposal By Lab Archive For **Months**

Empty Kit Relinquished by: **Date:** **Time:** **Method of Shipment:**

Relinquished by: **Date/Time:** **Company:** **Received by:** **Date/Time:** **Company:**

Relinquished by: **Date/Time:** **Company:** **Received by:** **Date/Time:** **Company:**

Relinquished by: **Date/Time:** **Company:** **Received by:** **Date/Time:** **Company:**

Custody Seals Intact: **Yes** **Δ** **No** **Δ** Custody Seal No.: **27**

Cooler Temperature(s) °C and Other Remarks:

Login Sample Receipt Checklist

Client: TRC Environmental Corporation.

Job Number: 500-127505-1

Login Number: 127505

List Source: TestAmerica Chicago

List Number: 1

Creator: Kelsey, Shawn M

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	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	(3.9)(3.3)c
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 (excluding tests with immediate HTs)	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").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



Login Sample Receipt Checklist

Client: TRC Environmental Corporation.

Job Number: 500-127505-1

Login Number: 127505

List Number: 2

Creator: Shaw, Rashard M

List Source: TestAmerica Nashville

List Creation: 05/04/17 02:16 PM

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	N/A	
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	
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 (excluding tests with immediate HTs)	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.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: TRC Environmental Corporation.

Job Number: 500-127505-1

Login Number: 127505

List Number: 3

Creator: Shaw, Rashard M

List Source: TestAmerica Nashville

List Creation: 05/04/17 02:20 PM

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	N/A	
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	
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 (excluding tests with immediate HTs)	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.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Chicago
2417 Bond Street
University Park, IL 60484
Tel: (708)534-5200

TestAmerica Job ID: 500-127508-1

Client Project/Site: STH 11 Kentucky to Kearney - 275788

For:
TRC Environmental Corporation.
150 N. Patrick Blvd.
Suite 180
Brookfield, Wisconsin 53045

Attn: Mr. Bryan Bergmann



Authorized for release by:
5/17/2017 4:26:59 PM

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.

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15
- 16



Table of Contents

Cover Page	1
Table of Contents	2
Case Narrative	3
Detection Summary	4
Method Summary	8
Sample Summary	9
Client Sample Results	10
Subcontract Data	35
Definitions	36
QC Association	37
Surrogate Summary	45
QC Sample Results	48
Chronicle	62
Certification Summary	75
Chain of Custody	76
Receipt Checklists	87

Case Narrative

Client: TRC Environmental Corporation.
Project/Site: STH 11 Kentucky to Kearney - 275788

TestAmerica Job ID: 500-127508-1

Job ID: 500-127508-1

Laboratory: TestAmerica Chicago

Narrative

Job Narrative 500-127508-1

Comments

No additional comments.

Receipt

The samples were received on 5/3/2017 9:00 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 2 coolers at receipt time were 4.2° C and 5.4° C.

GC/MS VOA

Method(s) 8260B: The laboratory control sample (LCS) for the soil preparation batch 384046 recovered outside control limits for 12 analytes. These analytes were biased high in the preparation batch LCS, but were within limits in the analytical batch LCS; therefore, the data has been reported.

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

GC/MS Semi VOA

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

GC VOA

Method(s) WI-GRO: The continuing calibration verification (CCV) associated with batch 490-428992 recovered above the upper control limit for Naphthalene. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The following sample is impacted: (CCV 490-428992/15).

Method(s) WI-GRO: Surrogate recovery for the following sample was outside control limits: GP-21 (6-8) (500-127508-21). 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.

GC Semi VOA

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

Metals

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

General Chemistry

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

Subcontract non-Sister

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

Organic Prep

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

VOA Prep

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

Subcontract Work

Method % Chlorine: This method was subcontracted to SF Analytical Laboratories. The subcontract laboratory certification is different from that of the facility issuing the final report.

Detection Summary

Client: TRC Environmental Corporation.
Project/Site: STH 11 Kentucky to Kearney - 275788

TestAmerica Job ID: 500-127508-1

Client Sample ID: GP-12 (2-4)

Lab Sample ID: 500-127508-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	19	F1	0.52	0.24	mg/Kg	1	☒	6010B	Total/NA

Client Sample ID: GP-12 (6-8)

Lab Sample ID: 500-127508-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,2,4-Trimethylbenzene	36		31	18	ug/Kg	1	☒	WDNR	Total/NA
Lead	9.7		0.57	0.26	mg/Kg	1	☒	6010B	Total/NA

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

Lab Sample ID: 500-127508-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	16		0.58	0.27	mg/Kg	1	☒	6010B	Total/NA

Client Sample ID: GP-13 (6-8)

Lab Sample ID: 500-127508-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	11		0.52	0.24	mg/Kg	1	☒	6010B	Total/NA

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

Lab Sample ID: 500-127508-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	51		18	11	ug/Kg	50	☒	8260B	Total/NA
Lead	15		0.58	0.27	mg/Kg	1	☒	6010B	Total/NA

Client Sample ID: GP-14 (6-8)

Lab Sample ID: 500-127508-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	16		0.65	0.30	mg/Kg	1	☒	6010B	Total/NA

Client Sample ID: GP-15 (2-4)

Lab Sample ID: 500-127508-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	7.8		0.49	0.23	mg/Kg	1	☒	6010B	Total/NA

Client Sample ID: GP-15 (6-8)

Lab Sample ID: 500-127508-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	7.5		0.51	0.23	mg/Kg	1	☒	6010B	Total/NA

Client Sample ID: GP-16 (2-4)

Lab Sample ID: 500-127508-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,2,4-Trimethylbenzene	22	J	30	18	ug/Kg	1	☒	WDNR	Total/NA
Lead	16		0.56	0.26	mg/Kg	1	☒	6010B	Total/NA

Client Sample ID: GP-16 (6-8)

Lab Sample ID: 500-127508-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	8.5		0.56	0.26	mg/Kg	1	☒	6010B	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: TRC Environmental Corporation.
Project/Site: STH 11 Kentucky to Kearney - 275788

TestAmerica Job ID: 500-127508-1

Client Sample ID: GP-17 (2-4)

Lab Sample ID: 500-127508-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	7.1		0.51	0.24	mg/Kg	1	☒	6010B	Total/NA

Client Sample ID: GP-17 (6-8)

Lab Sample ID: 500-127508-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	9.6		0.57	0.27	mg/Kg	1	☒	6010B	Total/NA

Client Sample ID: GP-18 (2-4)

Lab Sample ID: 500-127508-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	10		0.48	0.22	mg/Kg	1	☒	6010B	Total/NA

Client Sample ID: GP-18 (6-8)

Lab Sample ID: 500-127508-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	7.3		0.51	0.24	mg/Kg	1	☒	6010B	Total/NA

Client Sample ID: GP-19 (2-4)

Lab Sample ID: 500-127508-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	23		0.45	0.21	mg/Kg	1	☒	6010B	Total/NA

Client Sample ID: GP-19 (6-8)

Lab Sample ID: 500-127508-16

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	11		0.58	0.27	mg/Kg	1	☒	6010B	Total/NA

Client Sample ID: GP-20 (2-4)

Lab Sample ID: 500-127508-17

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,2,4-Trimethylbenzene	16	J	27	16	ug/Kg	1	☒	WDNR	Total/NA

Client Sample ID: GP-20 (6-8)

Lab Sample ID: 500-127508-18

No Detections.

Client Sample ID: GP-20 (14-16)

Lab Sample ID: 500-127508-19

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	79		30	21	ug/Kg	1	☒	WDNR	Total/NA
Naphthalene	440		300	140	ug/Kg	1	☒	WDNR	Total/NA
1,3,5-Trimethylbenzene	25	J	30	18	ug/Kg	1	☒	WDNR	Total/NA
Xylenes, Total	36	J	89	36	ug/Kg	1	☒	WDNR	Total/NA

Client Sample ID: GP-21 (2-4)

Lab Sample ID: 500-127508-20

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	94		31	22	ug/Kg	1	☒	WDNR	Total/NA
Ethylbenzene	35		31	24	ug/Kg	1	☒	WDNR	Total/NA
Methyl tert-butyl ether	160		31	15	ug/Kg	1	☒	WDNR	Total/NA
Naphthalene	510		310	150	ug/Kg	1	☒	WDNR	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: TRC Environmental Corporation.
Project/Site: STH 11 Kentucky to Kearney - 275788

TestAmerica Job ID: 500-127508-1

Client Sample ID: GP-21 (2-4) (Continued)

Lab Sample ID: 500-127508-20

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Toluene	25	J	31	21	ug/Kg	1	☒	WDNR	Total/NA
1,2,4-Trimethylbenzene	62		31	19	ug/Kg	1	☒	WDNR	Total/NA
Xylenes, Total	61	J	94	37	ug/Kg	1	☒	WDNR	Total/NA

Client Sample ID: GP-21 (6-8)

Lab Sample ID: 500-127508-21

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,2,4-Trimethylbenzene	2600		31	19	ug/Kg	1	☒	WDNR	Total/NA
1,3,5-Trimethylbenzene	1000		31	19	ug/Kg	1	☒	WDNR	Total/NA
Benzene	610		31	23	ug/Kg	1	☒	WDNR	Total/NA
Ethylbenzene	7200		31	24	ug/Kg	1	☒	WDNR	Total/NA
Methyl tert-butyl ether	17	J	31	15	ug/Kg	1	☒	WDNR	Total/NA
Naphthalene	55000		6300	3000	ug/Kg	20	☒	WDNR	Total/NA
Toluene	590		31	21	ug/Kg	1	☒	WDNR	Total/NA
Xylenes, Total	2500		94	38	ug/Kg	1	☒	WDNR	Total/NA
Wisconsin GRO	2000000		130000	63000	ug/Kg	20	☒	WDNR	Total/NA

Client Sample ID: GP-22 (2-4)

Lab Sample ID: 500-127508-22

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,2,4-Trimethylbenzene	91		33	20	ug/Kg	1	☒	WDNR	Total/NA
Lead	44		0.50	0.23	mg/Kg	1	☒	6010B	Total/NA

Client Sample ID: GP-22 (6-8)

Lab Sample ID: 500-127508-23

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	9.4		0.48	0.22	mg/Kg	1	☒	6010B	Total/NA

Client Sample ID: GP-23 (2-4)

Lab Sample ID: 500-127508-24

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	8.9		0.51	0.23	mg/Kg	1	☒	6010B	Total/NA

Client Sample ID: GP-23 (6-8)

Lab Sample ID: 500-127508-25

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Naphthalene	170	J	290	140	ug/Kg	1	☒	WDNR	Total/NA
Lead	7.7		0.50	0.23	mg/Kg	1	☒	6010B	Total/NA
Barium	0.44	J	0.50	0.050	mg/L	1		6010B	TCLP
Nickel	0.022	J	0.025	0.010	mg/L	1		6010B	TCLP
Flashpoint	>176		40.0	40.0	Degrees F	1		1010	Total/NA
Cyanide, Total	0.28	J	0.41	0.14	mg/Kg	1		9014	Total/NA
pH	9.0		0.2	0.2	SU	1		9045C	Total/NA
Paint Filter	PASS				No Unit	1		9095A	Total/NA
Specific Gravity	2.2442				NONE	1		SM 2710F	Total/NA

Client Sample ID: GP-24 (2-4)

Lab Sample ID: 500-127508-26

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	27	V F1	0.54	0.25	mg/Kg	1	☒	6010B	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: TRC Environmental Corporation.
 Project/Site: STH 11 Kentucky to Kearney - 275788

TestAmerica Job ID: 500-127508-1

Client Sample ID: GP-24 (6-8)

Lab Sample ID: 500-127508-27

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	11		0.53	0.25	mg/Kg	1	☼	6010B	Total/NA

Client Sample ID: GP-25 (2-4)

Lab Sample ID: 500-127508-28

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	15		0.52	0.24	mg/Kg	1	☼	6010B	Total/NA

Client Sample ID: GP-25 (6-8)

Lab Sample ID: 500-127508-29

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Isopropylbenzene	120		72	28	ug/Kg	50	☼	8260B	Total/NA
Naphthalene	150	*	72	24	ug/Kg	50	☼	8260B	Total/NA
N-Propylbenzene	620		72	30	ug/Kg	50	☼	8260B	Total/NA
WI Gasoline Range Organics (C5-C10)	350000		43000	14000	ug/Kg	1000	☼	WI-GRO	Total/NA
WI Diesel Range Organics (C10-C28)	22		7.0	2.8	mg/Kg	1	☼	WI-DRO	Total/NA
Lead	26		0.55	0.26	mg/Kg	1	☼	6010B	Total/NA

Client Sample ID: Trip Blank

Lab Sample ID: 500-127508-30

No Detections.

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Method Summary

Client: TRC Environmental Corporation.
Project/Site: STH 11 Kentucky to Kearney - 275788

TestAmerica Job ID: 500-127508-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL CHI
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	TAL CHI
WDNR	Wisconsin - Gasoline Range Organics (GC)	WI-GRO	TAL NSH
WI-GRO	Wisconsin - Gasoline Range Organics (GC)	WI-GRO	TAL CHI
8082A	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	TAL CHI
WI-DRO	Wisconsin - Diesel Range Organics (GC)	WI-DRO	TAL CHI
6010B	Metals (ICP)	SW846	TAL CHI
7470A	Mercury (CVAA)	SW846	TAL CHI
1010	Ignitability, Pensky-Martens Closed-Cup Method	SW846	TAL CHI
9014	Cyanide	SW846	TAL CHI
9034	Sulfide, Acid soluble and Insoluble (Titrimetric)	SW846	TAL CHI
9045C	pH	SW846	TAL CHI
9095A	Paint Filter	SW846	TAL CHI
Moisture	Percent Moisture	EPA	TAL NSH
Moisture	Percent Moisture	EPA	TAL CHI
SM 2710F	Specific Gravity, Density	SM	TAL CHI
% Chlorine	General Sub Contract Method	NONE	SFAL

Protocol References:

EPA = US Environmental Protection Agency

NONE = NONE

SM = "Standard Methods For The Examination Of Water And Wastewater",

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

WI-DRO = "Modified DRO: Method For Determining Diesel Range Organics", Wisconsin DNR, Publ-SW-141, September, 1995.

WI-GRO = "Modified GRO: Method For Determining Gasoline Range Organics", Wisconsin DNR, Publ-SW-140, September, 1995.

Laboratory References:

SFAL = SF Analytical Laboratories, 2345 South 170th Street, New Berlin, WI 53151

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

TAL NSH = TestAmerica Nashville, 2960 Foster Creighton Drive, Nashville, TN 37204, TEL (615)726-0177

Sample Summary

Client: TRC Environmental Corporation.
Project/Site: STH 11 Kentucky to Kearney - 275788

TestAmerica Job ID: 500-127508-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-127508-1	GP-12 (2-4)	Solid	05/02/17 08:25	05/03/17 09:00
500-127508-2	GP-12 (6-8)	Solid	05/02/17 08:30	05/03/17 09:00
500-127508-3	GP-13 (2-4)	Solid	05/02/17 09:15	05/03/17 09:00
500-127508-4	GP-13 (6-8)	Solid	05/02/17 09:20	05/03/17 09:00
500-127508-5	GP-14 (2-4)	Solid	05/02/17 09:30	05/03/17 09:00
500-127508-6	GP-14 (6-8)	Solid	05/02/17 09:35	05/03/17 09:00
500-127508-7	GP-15 (2-4)	Solid	05/02/17 09:55	05/03/17 09:00
500-127508-8	GP-15 (6-8)	Solid	05/02/17 10:00	05/03/17 09:00
500-127508-9	GP-16 (2-4)	Solid	05/02/17 10:30	05/03/17 09:00
500-127508-10	GP-16 (6-8)	Solid	05/02/17 10:35	05/03/17 09:00
500-127508-11	GP-17 (2-4)	Solid	05/02/17 10:50	05/03/17 09:00
500-127508-12	GP-17 (6-8)	Solid	05/02/17 10:55	05/03/17 09:00
500-127508-13	GP-18 (2-4)	Solid	05/02/17 11:25	05/03/17 09:00
500-127508-14	GP-18 (6-8)	Solid	05/02/17 11:30	05/03/17 09:00
500-127508-15	GP-19 (2-4)	Solid	05/02/17 11:50	05/03/17 09:00
500-127508-16	GP-19 (6-8)	Solid	05/02/17 11:55	05/03/17 09:00
500-127508-17	GP-20 (2-4)	Solid	05/02/17 12:20	05/03/17 09:00
500-127508-18	GP-20 (6-8)	Solid	05/02/17 12:25	05/03/17 09:00
500-127508-19	GP-20 (14-16)	Solid	05/02/17 12:30	05/03/17 09:00
500-127508-20	GP-21 (2-4)	Solid	05/02/17 12:50	05/03/17 09:00
500-127508-21	GP-21 (6-8)	Solid	05/02/17 12:55	05/03/17 09:00
500-127508-22	GP-22 (2-4)	Solid	05/02/17 13:35	05/03/17 09:00
500-127508-23	GP-22 (6-8)	Solid	05/02/17 13:40	05/03/17 09:00
500-127508-24	GP-23 (2-4)	Solid	05/02/17 13:50	05/03/17 09:00
500-127508-25	GP-23 (6-8)	Solid	05/02/17 13:05	05/03/17 09:00
500-127508-26	GP-24 (2-4)	Solid	05/02/17 14:15	05/03/17 09:00
500-127508-27	GP-24 (6-8)	Solid	05/02/17 14:20	05/03/17 09:00
500-127508-28	GP-25 (2-4)	Solid	05/02/17 14:35	05/03/17 09:00
500-127508-29	GP-25 (6-8)	Solid	05/02/17 14:40	05/03/17 09:00
500-127508-30	Trip Blank	Solid	05/02/17 00:00	05/03/17 09:00

Client Sample Results

Client: TRC Environmental Corporation.
Project/Site: STH 11 Kentucky to Kearney - 275788

TestAmerica Job ID: 500-127508-1

Client Sample ID: GP-12 (2-4)

Date Collected: 05/02/17 08:25

Date Received: 05/03/17 09:00

Lab Sample ID: 500-127508-1

Matrix: Solid

Percent Solids: 86.4

Method: WDNR - Wisconsin - Gasoline Range Organics (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<21		29	21	ug/Kg	☼	05/05/17 15:52	05/10/17 17:34	1
Ethylbenzene	<22		29	22	ug/Kg	☼	05/05/17 15:52	05/10/17 17:34	1
Methyl tert-butyl ether	<14		29	14	ug/Kg	☼	05/05/17 15:52	05/10/17 17:34	1
Naphthalene	<140		290	140	ug/Kg	☼	05/05/17 15:52	05/10/17 17:34	1
Toluene	<20		29	20	ug/Kg	☼	05/05/17 15:52	05/10/17 17:34	1
1,2,4-Trimethylbenzene	<18		29	18	ug/Kg	☼	05/05/17 15:52	05/10/17 17:34	1
1,3,5-Trimethylbenzene	<18		29	18	ug/Kg	☼	05/05/17 15:52	05/10/17 17:34	1
Xylenes, Total	<35		88	35	ug/Kg	☼	05/05/17 15:52	05/10/17 17:34	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>a,a,a-Trifluorotoluene</i>	91		80 - 120	05/05/17 15:52	05/10/17 17:34	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	19	F1	0.52	0.24	mg/Kg	☼	05/06/17 11:05	05/11/17 03:14	1

Client Sample ID: GP-12 (6-8)

Date Collected: 05/02/17 08:30

Date Received: 05/03/17 09:00

Lab Sample ID: 500-127508-2

Matrix: Solid

Percent Solids: 83.8

Method: WDNR - Wisconsin - Gasoline Range Organics (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<22		31	22	ug/Kg	☼	05/05/17 15:52	05/10/17 18:01	1
Ethylbenzene	<23		31	23	ug/Kg	☼	05/05/17 15:52	05/10/17 18:01	1
Methyl tert-butyl ether	<15		31	15	ug/Kg	☼	05/05/17 15:52	05/10/17 18:01	1
Naphthalene	<150		310	150	ug/Kg	☼	05/05/17 15:52	05/10/17 18:01	1
Toluene	<21		31	21	ug/Kg	☼	05/05/17 15:52	05/10/17 18:01	1
1,2,4-Trimethylbenzene	36		31	18	ug/Kg	☼	05/05/17 15:52	05/10/17 18:01	1
1,3,5-Trimethylbenzene	<18		31	18	ug/Kg	☼	05/05/17 15:52	05/10/17 18:01	1
Xylenes, Total	<37		92	37	ug/Kg	☼	05/05/17 15:52	05/10/17 18:01	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>a,a,a-Trifluorotoluene</i>	91		80 - 120	05/05/17 15:52	05/10/17 18:01	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	9.7		0.57	0.26	mg/Kg	☼	05/06/17 11:05	05/11/17 03:32	1

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

Date Collected: 05/02/17 09:15

Date Received: 05/03/17 09:00

Lab Sample ID: 500-127508-3

Matrix: Solid

Percent Solids: 81.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<34		74	34	ug/Kg	☼	05/02/17 09:15	05/16/17 04:52	50
1,1,1-Trichloroethane	<28		74	28	ug/Kg	☼	05/02/17 09:15	05/16/17 04:52	50
1,1,2,2-Tetrachloroethane	<29		74	29	ug/Kg	☼	05/02/17 09:15	05/16/17 04:52	50
1,1,2-Trichloroethane	<26		74	26	ug/Kg	☼	05/02/17 09:15	05/16/17 04:52	50
1,1-Dichloroethane	<30	*	74	30	ug/Kg	☼	05/02/17 09:15	05/16/17 04:52	50
1,1-Dichloroethene	<29	*	74	29	ug/Kg	☼	05/02/17 09:15	05/16/17 04:52	50
1,1-Dichloropropene	<22		74	22	ug/Kg	☼	05/02/17 09:15	05/16/17 04:52	50

TestAmerica Chicago

Client Sample Results

Client: TRC Environmental Corporation.
 Project/Site: STH 11 Kentucky to Kearney - 275788

TestAmerica Job ID: 500-127508-1

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

Lab Sample ID: 500-127508-3

Date Collected: 05/02/17 09:15

Matrix: Solid

Date Received: 05/03/17 09:00

Percent Solids: 81.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichlorobenzene	<34		74	34	ug/Kg	☼	05/02/17 09:15	05/16/17 04:52	50
1,2,3-Trichloropropane	<31		74	31	ug/Kg	☼	05/02/17 09:15	05/16/17 04:52	50
1,2,4-Trichlorobenzene	<25		74	25	ug/Kg	☼	05/02/17 09:15	05/16/17 04:52	50
1,2,4-Trimethylbenzene	<26		74	26	ug/Kg	☼	05/02/17 09:15	05/16/17 04:52	50
1,2-Dibromo-3-Chloropropane	<150		370	150	ug/Kg	☼	05/02/17 09:15	05/16/17 04:52	50
1,2-Dibromoethane	<29		74	29	ug/Kg	☼	05/02/17 09:15	05/16/17 04:52	50
1,2-Dichlorobenzene	<25		74	25	ug/Kg	☼	05/02/17 09:15	05/16/17 04:52	50
1,2-Dichloroethane	<29		74	29	ug/Kg	☼	05/02/17 09:15	05/16/17 04:52	50
1,2-Dichloropropane	<32		74	32	ug/Kg	☼	05/02/17 09:15	05/16/17 04:52	50
1,3,5-Trimethylbenzene	<28		74	28	ug/Kg	☼	05/02/17 09:15	05/16/17 04:52	50
1,3-Dichlorobenzene	<30		74	30	ug/Kg	☼	05/02/17 09:15	05/16/17 04:52	50
1,3-Dichloropropane	<27		74	27	ug/Kg	☼	05/02/17 09:15	05/16/17 04:52	50
1,4-Dichlorobenzene	<27		74	27	ug/Kg	☼	05/02/17 09:15	05/16/17 04:52	50
2,2-Dichloropropane	<33		74	33	ug/Kg	☼	05/02/17 09:15	05/16/17 04:52	50
2-Chlorotoluene	<23		74	23	ug/Kg	☼	05/02/17 09:15	05/16/17 04:52	50
4-Chlorotoluene	<26		74	26	ug/Kg	☼	05/02/17 09:15	05/16/17 04:52	50
Benzene	<11		18	11	ug/Kg	☼	05/02/17 09:15	05/16/17 04:52	50
Bromobenzene	<26		74	26	ug/Kg	☼	05/02/17 09:15	05/16/17 04:52	50
Bromochloromethane	<32 *		74	32	ug/Kg	☼	05/02/17 09:15	05/16/17 04:52	50
Bromodichloromethane	<28		74	28	ug/Kg	☼	05/02/17 09:15	05/16/17 04:52	50
Bromoform	<36		74	36	ug/Kg	☼	05/02/17 09:15	05/16/17 04:52	50
Bromomethane	<59		150	59	ug/Kg	☼	05/02/17 09:15	05/16/17 04:52	50
Carbon tetrachloride	<28		74	28	ug/Kg	☼	05/02/17 09:15	05/16/17 04:52	50
Chlorobenzene	<29		74	29	ug/Kg	☼	05/02/17 09:15	05/16/17 04:52	50
Chloroethane	<37		74	37	ug/Kg	☼	05/02/17 09:15	05/16/17 04:52	50
Chloroform	<27 *		150	27	ug/Kg	☼	05/02/17 09:15	05/16/17 04:52	50
Chloromethane	<24		74	24	ug/Kg	☼	05/02/17 09:15	05/16/17 04:52	50
cis-1,2-Dichloroethene	<30 *		74	30	ug/Kg	☼	05/02/17 09:15	05/16/17 04:52	50
cis-1,3-Dichloropropene	<31		74	31	ug/Kg	☼	05/02/17 09:15	05/16/17 04:52	50
Dibromochloromethane	<36		74	36	ug/Kg	☼	05/02/17 09:15	05/16/17 04:52	50
Dibromomethane	<20		74	20	ug/Kg	☼	05/02/17 09:15	05/16/17 04:52	50
Dichlorodifluoromethane	<50		150	50	ug/Kg	☼	05/02/17 09:15	05/16/17 04:52	50
Ethylbenzene	<14		18	14	ug/Kg	☼	05/02/17 09:15	05/16/17 04:52	50
Hexachlorobutadiene	<33		74	33	ug/Kg	☼	05/02/17 09:15	05/16/17 04:52	50
Isopropyl ether	<20		74	20	ug/Kg	☼	05/02/17 09:15	05/16/17 04:52	50
Isopropylbenzene	<28		74	28	ug/Kg	☼	05/02/17 09:15	05/16/17 04:52	50
Methyl tert-butyl ether	<29 *		74	29	ug/Kg	☼	05/02/17 09:15	05/16/17 04:52	50
Methylene Chloride	<120 *		370	120	ug/Kg	☼	05/02/17 09:15	05/16/17 04:52	50
Naphthalene	<25 *		74	25	ug/Kg	☼	05/02/17 09:15	05/16/17 04:52	50
n-Butylbenzene	<29		74	29	ug/Kg	☼	05/02/17 09:15	05/16/17 04:52	50
N-Propylbenzene	<31		74	31	ug/Kg	☼	05/02/17 09:15	05/16/17 04:52	50
p-Isopropyltoluene	<27		74	27	ug/Kg	☼	05/02/17 09:15	05/16/17 04:52	50
sec-Butylbenzene	<29		74	29	ug/Kg	☼	05/02/17 09:15	05/16/17 04:52	50
Styrene	<29 *		74	29	ug/Kg	☼	05/02/17 09:15	05/16/17 04:52	50
tert-Butylbenzene	<29		74	29	ug/Kg	☼	05/02/17 09:15	05/16/17 04:52	50
Tetrachloroethene	<27		74	27	ug/Kg	☼	05/02/17 09:15	05/16/17 04:52	50
Toluene	<11		18	11	ug/Kg	☼	05/02/17 09:15	05/16/17 04:52	50
trans-1,2-Dichloroethene	<26 *		74	26	ug/Kg	☼	05/02/17 09:15	05/16/17 04:52	50
trans-1,3-Dichloropropene	<27		74	27	ug/Kg	☼	05/02/17 09:15	05/16/17 04:52	50

TestAmerica Chicago

Client Sample Results

Client: TRC Environmental Corporation.
Project/Site: STH 11 Kentucky to Kearney - 275788

TestAmerica Job ID: 500-127508-1

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

Date Collected: 05/02/17 09:15

Date Received: 05/03/17 09:00

Lab Sample ID: 500-127508-3

Matrix: Solid

Percent Solids: 81.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichloroethene	<12		37	12	ug/Kg	☼	05/02/17 09:15	05/16/17 04:52	50
Trichlorofluoromethane	<32	*	74	32	ug/Kg	☼	05/02/17 09:15	05/16/17 04:52	50
Vinyl chloride	<19	*	37	19	ug/Kg	☼	05/02/17 09:15	05/16/17 04:52	50
Xylenes, Total	<16		37	16	ug/Kg	☼	05/02/17 09:15	05/16/17 04:52	50
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	102		75 - 126				05/02/17 09:15	05/16/17 04:52	50
4-Bromofluorobenzene (Surr)	106		72 - 124				05/02/17 09:15	05/16/17 04:52	50
Dibromofluoromethane	89		75 - 120				05/02/17 09:15	05/16/17 04:52	50
Toluene-d8 (Surr)	92		75 - 120				05/02/17 09:15	05/16/17 04:52	50

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	16		0.58	0.27	mg/Kg	☼	05/06/17 11:05	05/11/17 03:38	1

Client Sample ID: GP-13 (6-8)

Date Collected: 05/02/17 09:20

Date Received: 05/03/17 09:00

Lab Sample ID: 500-127508-4

Matrix: Solid

Percent Solids: 81.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<34		73	34	ug/Kg	☼	05/02/17 09:20	05/16/17 05:18	50
1,1,1-Trichloroethane	<28		73	28	ug/Kg	☼	05/02/17 09:20	05/16/17 05:18	50
1,1,1,2,2-Tetrachloroethane	<29		73	29	ug/Kg	☼	05/02/17 09:20	05/16/17 05:18	50
1,1,2-Trichloroethane	<26		73	26	ug/Kg	☼	05/02/17 09:20	05/16/17 05:18	50
1,1-Dichloroethane	<30	*	73	30	ug/Kg	☼	05/02/17 09:20	05/16/17 05:18	50
1,1-Dichloroethene	<28	*	73	28	ug/Kg	☼	05/02/17 09:20	05/16/17 05:18	50
1,1-Dichloropropene	<22		73	22	ug/Kg	☼	05/02/17 09:20	05/16/17 05:18	50
1,2,3-Trichlorobenzene	<33		73	33	ug/Kg	☼	05/02/17 09:20	05/16/17 05:18	50
1,2,3-Trichloropropane	<30		73	30	ug/Kg	☼	05/02/17 09:20	05/16/17 05:18	50
1,2,4-Trichlorobenzene	<25		73	25	ug/Kg	☼	05/02/17 09:20	05/16/17 05:18	50
1,2,4-Trimethylbenzene	<26		73	26	ug/Kg	☼	05/02/17 09:20	05/16/17 05:18	50
1,2-Dibromo-3-Chloropropane	<140		360	140	ug/Kg	☼	05/02/17 09:20	05/16/17 05:18	50
1,2-Dibromoethane	<28		73	28	ug/Kg	☼	05/02/17 09:20	05/16/17 05:18	50
1,2-Dichlorobenzene	<24		73	24	ug/Kg	☼	05/02/17 09:20	05/16/17 05:18	50
1,2-Dichloroethane	<28		73	28	ug/Kg	☼	05/02/17 09:20	05/16/17 05:18	50
1,2-Dichloropropane	<31		73	31	ug/Kg	☼	05/02/17 09:20	05/16/17 05:18	50
1,3,5-Trimethylbenzene	<28		73	28	ug/Kg	☼	05/02/17 09:20	05/16/17 05:18	50
1,3-Dichlorobenzene	<29		73	29	ug/Kg	☼	05/02/17 09:20	05/16/17 05:18	50
1,3-Dichloropropane	<26		73	26	ug/Kg	☼	05/02/17 09:20	05/16/17 05:18	50
1,4-Dichlorobenzene	<26		73	26	ug/Kg	☼	05/02/17 09:20	05/16/17 05:18	50
2,2-Dichloropropane	<32		73	32	ug/Kg	☼	05/02/17 09:20	05/16/17 05:18	50
2-Chlorotoluene	<23		73	23	ug/Kg	☼	05/02/17 09:20	05/16/17 05:18	50
4-Chlorotoluene	<25		73	25	ug/Kg	☼	05/02/17 09:20	05/16/17 05:18	50
Benzene	<11		18	11	ug/Kg	☼	05/02/17 09:20	05/16/17 05:18	50
Bromobenzene	<26		73	26	ug/Kg	☼	05/02/17 09:20	05/16/17 05:18	50
Bromochloromethane	<31	*	73	31	ug/Kg	☼	05/02/17 09:20	05/16/17 05:18	50
Bromodichloromethane	<27		73	27	ug/Kg	☼	05/02/17 09:20	05/16/17 05:18	50
Bromoform	<35		73	35	ug/Kg	☼	05/02/17 09:20	05/16/17 05:18	50
Bromomethane	<58		150	58	ug/Kg	☼	05/02/17 09:20	05/16/17 05:18	50

TestAmerica Chicago

Client Sample Results

Client: TRC Environmental Corporation.
Project/Site: STH 11 Kentucky to Kearney - 275788

TestAmerica Job ID: 500-127508-1

Client Sample ID: GP-13 (6-8)

Date Collected: 05/02/17 09:20

Date Received: 05/03/17 09:00

Lab Sample ID: 500-127508-4

Matrix: Solid

Percent Solids: 81.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon tetrachloride	<28		73	28	ug/Kg	☼	05/02/17 09:20	05/16/17 05:18	50
Chlorobenzene	<28		73	28	ug/Kg	☼	05/02/17 09:20	05/16/17 05:18	50
Chloroethane	<37		73	37	ug/Kg	☼	05/02/17 09:20	05/16/17 05:18	50
Chloroform	<27 *		150	27	ug/Kg	☼	05/02/17 09:20	05/16/17 05:18	50
Chloromethane	<23		73	23	ug/Kg	☼	05/02/17 09:20	05/16/17 05:18	50
cis-1,2-Dichloroethene	<30 *		73	30	ug/Kg	☼	05/02/17 09:20	05/16/17 05:18	50
cis-1,3-Dichloropropene	<30		73	30	ug/Kg	☼	05/02/17 09:20	05/16/17 05:18	50
Dibromochloromethane	<35		73	35	ug/Kg	☼	05/02/17 09:20	05/16/17 05:18	50
Dibromomethane	<20		73	20	ug/Kg	☼	05/02/17 09:20	05/16/17 05:18	50
Dichlorodifluoromethane	<49		150	49	ug/Kg	☼	05/02/17 09:20	05/16/17 05:18	50
Ethylbenzene	<13		18	13	ug/Kg	☼	05/02/17 09:20	05/16/17 05:18	50
Hexachlorobutadiene	<32		73	32	ug/Kg	☼	05/02/17 09:20	05/16/17 05:18	50
Isopropyl ether	<20		73	20	ug/Kg	☼	05/02/17 09:20	05/16/17 05:18	50
Isopropylbenzene	<28		73	28	ug/Kg	☼	05/02/17 09:20	05/16/17 05:18	50
Methyl tert-butyl ether	<29 *		73	29	ug/Kg	☼	05/02/17 09:20	05/16/17 05:18	50
Methylene Chloride	<120 *		360	120	ug/Kg	☼	05/02/17 09:20	05/16/17 05:18	50
Naphthalene	<24 *		73	24	ug/Kg	☼	05/02/17 09:20	05/16/17 05:18	50
n-Butylbenzene	<28		73	28	ug/Kg	☼	05/02/17 09:20	05/16/17 05:18	50
N-Propylbenzene	<30		73	30	ug/Kg	☼	05/02/17 09:20	05/16/17 05:18	50
p-Isopropyltoluene	<26		73	26	ug/Kg	☼	05/02/17 09:20	05/16/17 05:18	50
sec-Butylbenzene	<29		73	29	ug/Kg	☼	05/02/17 09:20	05/16/17 05:18	50
Styrene	<28 *		73	28	ug/Kg	☼	05/02/17 09:20	05/16/17 05:18	50
tert-Butylbenzene	<29		73	29	ug/Kg	☼	05/02/17 09:20	05/16/17 05:18	50
Tetrachloroethene	<27		73	27	ug/Kg	☼	05/02/17 09:20	05/16/17 05:18	50
Toluene	<11		18	11	ug/Kg	☼	05/02/17 09:20	05/16/17 05:18	50
trans-1,2-Dichloroethene	<25 *		73	25	ug/Kg	☼	05/02/17 09:20	05/16/17 05:18	50
trans-1,3-Dichloropropene	<26		73	26	ug/Kg	☼	05/02/17 09:20	05/16/17 05:18	50
Trichloroethene	<12		36	12	ug/Kg	☼	05/02/17 09:20	05/16/17 05:18	50
Trichlorofluoromethane	<31 *		73	31	ug/Kg	☼	05/02/17 09:20	05/16/17 05:18	50
Vinyl chloride	<19 *		36	19	ug/Kg	☼	05/02/17 09:20	05/16/17 05:18	50
Xylenes, Total	<16		36	16	ug/Kg	☼	05/02/17 09:20	05/16/17 05:18	50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	100		75 - 126	05/02/17 09:20	05/16/17 05:18	50
4-Bromofluorobenzene (Surr)	108		72 - 124	05/02/17 09:20	05/16/17 05:18	50
Dibromofluoromethane	89		75 - 120	05/02/17 09:20	05/16/17 05:18	50
Toluene-d8 (Surr)	93		75 - 120	05/02/17 09:20	05/16/17 05:18	50

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	11		0.52	0.24	mg/Kg	☼	05/06/17 11:05	05/11/17 03:48	1

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

Date Collected: 05/02/17 09:30

Date Received: 05/03/17 09:00

Lab Sample ID: 500-127508-5

Matrix: Solid

Percent Solids: 82.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<33		72	33	ug/Kg	☼	05/02/17 09:30	05/16/17 05:44	50
1,1,1-Trichloroethane	<27		72	27	ug/Kg	☼	05/02/17 09:30	05/16/17 05:44	50

TestAmerica Chicago

Client Sample Results

Client: TRC Environmental Corporation.
Project/Site: STH 11 Kentucky to Kearney - 275788

TestAmerica Job ID: 500-127508-1

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

Lab Sample ID: 500-127508-5

Date Collected: 05/02/17 09:30

Matrix: Solid

Date Received: 05/03/17 09:00

Percent Solids: 82.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	<29		72	29	ug/Kg	☼	05/02/17 09:30	05/16/17 05:44	50
1,1,2-Trichloroethane	<25		72	25	ug/Kg	☼	05/02/17 09:30	05/16/17 05:44	50
1,1-Dichloroethane	<30	*	72	30	ug/Kg	☼	05/02/17 09:30	05/16/17 05:44	50
1,1-Dichloroethene	<28	*	72	28	ug/Kg	☼	05/02/17 09:30	05/16/17 05:44	50
1,1-Dichloropropene	<22		72	22	ug/Kg	☼	05/02/17 09:30	05/16/17 05:44	50
1,2,3-Trichlorobenzene	<33		72	33	ug/Kg	☼	05/02/17 09:30	05/16/17 05:44	50
1,2,3-Trichloropropane	<30		72	30	ug/Kg	☼	05/02/17 09:30	05/16/17 05:44	50
1,2,4-Trichlorobenzene	<25		72	25	ug/Kg	☼	05/02/17 09:30	05/16/17 05:44	50
1,2,4-Trimethylbenzene	<26		72	26	ug/Kg	☼	05/02/17 09:30	05/16/17 05:44	50
1,2-Dibromo-3-Chloropropane	<140		360	140	ug/Kg	☼	05/02/17 09:30	05/16/17 05:44	50
1,2-Dibromoethane	<28		72	28	ug/Kg	☼	05/02/17 09:30	05/16/17 05:44	50
1,2-Dichlorobenzene	<24		72	24	ug/Kg	☼	05/02/17 09:30	05/16/17 05:44	50
1,2-Dichloroethane	<28		72	28	ug/Kg	☼	05/02/17 09:30	05/16/17 05:44	50
1,2-Dichloropropane	<31		72	31	ug/Kg	☼	05/02/17 09:30	05/16/17 05:44	50
1,3,5-Trimethylbenzene	<27		72	27	ug/Kg	☼	05/02/17 09:30	05/16/17 05:44	50
1,3-Dichlorobenzene	<29		72	29	ug/Kg	☼	05/02/17 09:30	05/16/17 05:44	50
1,3-Dichloropropane	<26		72	26	ug/Kg	☼	05/02/17 09:30	05/16/17 05:44	50
1,4-Dichlorobenzene	<26		72	26	ug/Kg	☼	05/02/17 09:30	05/16/17 05:44	50
2,2-Dichloropropane	<32		72	32	ug/Kg	☼	05/02/17 09:30	05/16/17 05:44	50
2-Chlorotoluene	<23		72	23	ug/Kg	☼	05/02/17 09:30	05/16/17 05:44	50
4-Chlorotoluene	<25		72	25	ug/Kg	☼	05/02/17 09:30	05/16/17 05:44	50
Benzene	51		18	11	ug/Kg	☼	05/02/17 09:30	05/16/17 05:44	50
Bromobenzene	<26		72	26	ug/Kg	☼	05/02/17 09:30	05/16/17 05:44	50
Bromochloromethane	<31	*	72	31	ug/Kg	☼	05/02/17 09:30	05/16/17 05:44	50
Bromodichloromethane	<27		72	27	ug/Kg	☼	05/02/17 09:30	05/16/17 05:44	50
Bromoform	<35		72	35	ug/Kg	☼	05/02/17 09:30	05/16/17 05:44	50
Bromomethane	<58		140	58	ug/Kg	☼	05/02/17 09:30	05/16/17 05:44	50
Carbon tetrachloride	<28		72	28	ug/Kg	☼	05/02/17 09:30	05/16/17 05:44	50
Chlorobenzene	<28		72	28	ug/Kg	☼	05/02/17 09:30	05/16/17 05:44	50
Chloroethane	<36		72	36	ug/Kg	☼	05/02/17 09:30	05/16/17 05:44	50
Chloroform	<27	*	140	27	ug/Kg	☼	05/02/17 09:30	05/16/17 05:44	50
Chloromethane	<23		72	23	ug/Kg	☼	05/02/17 09:30	05/16/17 05:44	50
cis-1,2-Dichloroethene	<29	*	72	29	ug/Kg	☼	05/02/17 09:30	05/16/17 05:44	50
cis-1,3-Dichloropropene	<30		72	30	ug/Kg	☼	05/02/17 09:30	05/16/17 05:44	50
Dibromochloromethane	<35		72	35	ug/Kg	☼	05/02/17 09:30	05/16/17 05:44	50
Dibromomethane	<20		72	20	ug/Kg	☼	05/02/17 09:30	05/16/17 05:44	50
Dichlorodifluoromethane	<49		140	49	ug/Kg	☼	05/02/17 09:30	05/16/17 05:44	50
Ethylbenzene	<13		18	13	ug/Kg	☼	05/02/17 09:30	05/16/17 05:44	50
Hexachlorobutadiene	<32		72	32	ug/Kg	☼	05/02/17 09:30	05/16/17 05:44	50
Isopropyl ether	<20		72	20	ug/Kg	☼	05/02/17 09:30	05/16/17 05:44	50
Isopropylbenzene	<28		72	28	ug/Kg	☼	05/02/17 09:30	05/16/17 05:44	50
Methyl tert-butyl ether	<28	*	72	28	ug/Kg	☼	05/02/17 09:30	05/16/17 05:44	50
Methylene Chloride	<120	*	360	120	ug/Kg	☼	05/02/17 09:30	05/16/17 05:44	50
Naphthalene	<24	*	72	24	ug/Kg	☼	05/02/17 09:30	05/16/17 05:44	50
n-Butylbenzene	<28		72	28	ug/Kg	☼	05/02/17 09:30	05/16/17 05:44	50
N-Propylbenzene	<30		72	30	ug/Kg	☼	05/02/17 09:30	05/16/17 05:44	50
p-Isopropyltoluene	<26		72	26	ug/Kg	☼	05/02/17 09:30	05/16/17 05:44	50
sec-Butylbenzene	<29		72	29	ug/Kg	☼	05/02/17 09:30	05/16/17 05:44	50
Styrene	<28	*	72	28	ug/Kg	☼	05/02/17 09:30	05/16/17 05:44	50

TestAmerica Chicago

Client Sample Results

Client: TRC Environmental Corporation.
Project/Site: STH 11 Kentucky to Kearney - 275788

TestAmerica Job ID: 500-127508-1

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

Date Collected: 05/02/17 09:30

Date Received: 05/03/17 09:00

Lab Sample ID: 500-127508-5

Matrix: Solid

Percent Solids: 82.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
tert-Butylbenzene	<29		72	29	ug/Kg	☼	05/02/17 09:30	05/16/17 05:44	50
Tetrachloroethene	<27		72	27	ug/Kg	☼	05/02/17 09:30	05/16/17 05:44	50
Toluene	<11		18	11	ug/Kg	☼	05/02/17 09:30	05/16/17 05:44	50
trans-1,2-Dichloroethene	<25 *		72	25	ug/Kg	☼	05/02/17 09:30	05/16/17 05:44	50
trans-1,3-Dichloropropene	<26		72	26	ug/Kg	☼	05/02/17 09:30	05/16/17 05:44	50
Trichloroethene	<12		36	12	ug/Kg	☼	05/02/17 09:30	05/16/17 05:44	50
Trichlorofluoromethane	<31 *		72	31	ug/Kg	☼	05/02/17 09:30	05/16/17 05:44	50
Vinyl chloride	<19 *		36	19	ug/Kg	☼	05/02/17 09:30	05/16/17 05:44	50
Xylenes, Total	<16		36	16	ug/Kg	☼	05/02/17 09:30	05/16/17 05:44	50
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	103		75 - 126				05/02/17 09:30	05/16/17 05:44	50
4-Bromofluorobenzene (Surr)	105		72 - 124				05/02/17 09:30	05/16/17 05:44	50
Dibromofluoromethane	88		75 - 120				05/02/17 09:30	05/16/17 05:44	50
Toluene-d8 (Surr)	94		75 - 120				05/02/17 09:30	05/16/17 05:44	50

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	15		0.58	0.27	mg/Kg	☼	05/06/17 11:05	05/11/17 03:51	1

Client Sample ID: GP-14 (6-8)

Date Collected: 05/02/17 09:35

Date Received: 05/03/17 09:00

Lab Sample ID: 500-127508-6

Matrix: Solid

Percent Solids: 73.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<40		87	40	ug/Kg	☼	05/02/17 09:35	05/16/17 06:11	50
1,1,1-Trichloroethane	<33		87	33	ug/Kg	☼	05/02/17 09:35	05/16/17 06:11	50
1,1,1,2,2-Tetrachloroethane	<34		87	34	ug/Kg	☼	05/02/17 09:35	05/16/17 06:11	50
1,1,2-Trichloroethane	<31		87	31	ug/Kg	☼	05/02/17 09:35	05/16/17 06:11	50
1,1-Dichloroethane	<36 *		87	36	ug/Kg	☼	05/02/17 09:35	05/16/17 06:11	50
1,1-Dichloroethene	<34 *		87	34	ug/Kg	☼	05/02/17 09:35	05/16/17 06:11	50
1,1-Dichloropropene	<26		87	26	ug/Kg	☼	05/02/17 09:35	05/16/17 06:11	50
1,2,3-Trichlorobenzene	<40		87	40	ug/Kg	☼	05/02/17 09:35	05/16/17 06:11	50
1,2,3-Trichloropropane	<36		87	36	ug/Kg	☼	05/02/17 09:35	05/16/17 06:11	50
1,2,4-Trichlorobenzene	<30		87	30	ug/Kg	☼	05/02/17 09:35	05/16/17 06:11	50
1,2,4-Trimethylbenzene	<31		87	31	ug/Kg	☼	05/02/17 09:35	05/16/17 06:11	50
1,2-Dibromo-3-Chloropropane	<170		430	170	ug/Kg	☼	05/02/17 09:35	05/16/17 06:11	50
1,2-Dibromoethane	<33		87	33	ug/Kg	☼	05/02/17 09:35	05/16/17 06:11	50
1,2-Dichlorobenzene	<29		87	29	ug/Kg	☼	05/02/17 09:35	05/16/17 06:11	50
1,2-Dichloroethane	<34		87	34	ug/Kg	☼	05/02/17 09:35	05/16/17 06:11	50
1,2-Dichloropropane	<37		87	37	ug/Kg	☼	05/02/17 09:35	05/16/17 06:11	50
1,3,5-Trimethylbenzene	<33		87	33	ug/Kg	☼	05/02/17 09:35	05/16/17 06:11	50
1,3-Dichlorobenzene	<35		87	35	ug/Kg	☼	05/02/17 09:35	05/16/17 06:11	50
1,3-Dichloropropane	<31		87	31	ug/Kg	☼	05/02/17 09:35	05/16/17 06:11	50
1,4-Dichlorobenzene	<32		87	32	ug/Kg	☼	05/02/17 09:35	05/16/17 06:11	50
2,2-Dichloropropane	<38		87	38	ug/Kg	☼	05/02/17 09:35	05/16/17 06:11	50
2-Chlorotoluene	<27		87	27	ug/Kg	☼	05/02/17 09:35	05/16/17 06:11	50
4-Chlorotoluene	<30		87	30	ug/Kg	☼	05/02/17 09:35	05/16/17 06:11	50
Benzene	<13		22	13	ug/Kg	☼	05/02/17 09:35	05/16/17 06:11	50

TestAmerica Chicago

Client Sample Results

Client: TRC Environmental Corporation.
Project/Site: STH 11 Kentucky to Kearney - 275788

TestAmerica Job ID: 500-127508-1

Client Sample ID: GP-14 (6-8)

Lab Sample ID: 500-127508-6

Date Collected: 05/02/17 09:35

Matrix: Solid

Date Received: 05/03/17 09:00

Percent Solids: 73.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromobenzene	<31		87	31	ug/Kg	☼	05/02/17 09:35	05/16/17 06:11	50
Bromochloromethane	<37	*	87	37	ug/Kg	☼	05/02/17 09:35	05/16/17 06:11	50
Bromodichloromethane	<32		87	32	ug/Kg	☼	05/02/17 09:35	05/16/17 06:11	50
Bromoform	<42		87	42	ug/Kg	☼	05/02/17 09:35	05/16/17 06:11	50
Bromomethane	<69		170	69	ug/Kg	☼	05/02/17 09:35	05/16/17 06:11	50
Carbon tetrachloride	<33		87	33	ug/Kg	☼	05/02/17 09:35	05/16/17 06:11	50
Chlorobenzene	<33		87	33	ug/Kg	☼	05/02/17 09:35	05/16/17 06:11	50
Chloroethane	<44		87	44	ug/Kg	☼	05/02/17 09:35	05/16/17 06:11	50
Chloroform	<32	*	170	32	ug/Kg	☼	05/02/17 09:35	05/16/17 06:11	50
Chloromethane	<28		87	28	ug/Kg	☼	05/02/17 09:35	05/16/17 06:11	50
cis-1,2-Dichloroethene	<35	*	87	35	ug/Kg	☼	05/02/17 09:35	05/16/17 06:11	50
cis-1,3-Dichloropropene	<36		87	36	ug/Kg	☼	05/02/17 09:35	05/16/17 06:11	50
Dibromochloromethane	<42		87	42	ug/Kg	☼	05/02/17 09:35	05/16/17 06:11	50
Dibromomethane	<23		87	23	ug/Kg	☼	05/02/17 09:35	05/16/17 06:11	50
Dichlorodifluoromethane	<58		170	58	ug/Kg	☼	05/02/17 09:35	05/16/17 06:11	50
Ethylbenzene	<16		22	16	ug/Kg	☼	05/02/17 09:35	05/16/17 06:11	50
Hexachlorobutadiene	<39		87	39	ug/Kg	☼	05/02/17 09:35	05/16/17 06:11	50
Isopropyl ether	<24		87	24	ug/Kg	☼	05/02/17 09:35	05/16/17 06:11	50
Isopropylbenzene	<33		87	33	ug/Kg	☼	05/02/17 09:35	05/16/17 06:11	50
Methyl tert-butyl ether	<34	*	87	34	ug/Kg	☼	05/02/17 09:35	05/16/17 06:11	50
Methylene Chloride	<140	*	430	140	ug/Kg	☼	05/02/17 09:35	05/16/17 06:11	50
Naphthalene	<29	*	87	29	ug/Kg	☼	05/02/17 09:35	05/16/17 06:11	50
n-Butylbenzene	<34		87	34	ug/Kg	☼	05/02/17 09:35	05/16/17 06:11	50
N-Propylbenzene	<36		87	36	ug/Kg	☼	05/02/17 09:35	05/16/17 06:11	50
p-Isopropyltoluene	<31		87	31	ug/Kg	☼	05/02/17 09:35	05/16/17 06:11	50
sec-Butylbenzene	<34		87	34	ug/Kg	☼	05/02/17 09:35	05/16/17 06:11	50
Styrene	<33	*	87	33	ug/Kg	☼	05/02/17 09:35	05/16/17 06:11	50
tert-Butylbenzene	<34		87	34	ug/Kg	☼	05/02/17 09:35	05/16/17 06:11	50
Tetrachloroethene	<32		87	32	ug/Kg	☼	05/02/17 09:35	05/16/17 06:11	50
Toluene	<13		22	13	ug/Kg	☼	05/02/17 09:35	05/16/17 06:11	50
trans-1,2-Dichloroethene	<30	*	87	30	ug/Kg	☼	05/02/17 09:35	05/16/17 06:11	50
trans-1,3-Dichloropropene	<31		87	31	ug/Kg	☼	05/02/17 09:35	05/16/17 06:11	50
Trichloroethene	<14		43	14	ug/Kg	☼	05/02/17 09:35	05/16/17 06:11	50
Trichlorofluoromethane	<37	*	87	37	ug/Kg	☼	05/02/17 09:35	05/16/17 06:11	50
Vinyl chloride	<23	*	43	23	ug/Kg	☼	05/02/17 09:35	05/16/17 06:11	50
Xylenes, Total	<19		43	19	ug/Kg	☼	05/02/17 09:35	05/16/17 06:11	50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	103		75 - 126	05/02/17 09:35	05/16/17 06:11	50
4-Bromofluorobenzene (Surr)	106		72 - 124	05/02/17 09:35	05/16/17 06:11	50
Dibromofluoromethane	89		75 - 120	05/02/17 09:35	05/16/17 06:11	50
Toluene-d8 (Surr)	93		75 - 120	05/02/17 09:35	05/16/17 06:11	50

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	16		0.65	0.30	mg/Kg	☼	05/06/17 11:05	05/11/17 03:54	1

TestAmerica Chicago

Client Sample Results

Client: TRC Environmental Corporation.
Project/Site: STH 11 Kentucky to Kearney - 275788

TestAmerica Job ID: 500-127508-1

Client Sample ID: GP-15 (2-4)

Date Collected: 05/02/17 09:55

Date Received: 05/03/17 09:00

Lab Sample ID: 500-127508-7

Matrix: Solid

Percent Solids: 92.0

Method: WDNR - Wisconsin - Gasoline Range Organics (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<20		28	20	ug/Kg	☼	05/05/17 15:52	05/10/17 18:28	1
Ethylbenzene	<21		28	21	ug/Kg	☼	05/05/17 15:52	05/10/17 18:28	1
Methyl tert-butyl ether	<13		28	13	ug/Kg	☼	05/05/17 15:52	05/10/17 18:28	1
Naphthalene	<130		280	130	ug/Kg	☼	05/05/17 15:52	05/10/17 18:28	1
Toluene	<19		28	19	ug/Kg	☼	05/05/17 15:52	05/10/17 18:28	1
1,2,4-Trimethylbenzene	<17		28	17	ug/Kg	☼	05/05/17 15:52	05/10/17 18:28	1
1,3,5-Trimethylbenzene	<17		28	17	ug/Kg	☼	05/05/17 15:52	05/10/17 18:28	1
Xylenes, Total	<33		84	33	ug/Kg	☼	05/05/17 15:52	05/10/17 18:28	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	90		80 - 120	05/05/17 15:52	05/10/17 18:28	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	7.8		0.49	0.23	mg/Kg	☼	05/06/17 11:05	05/11/17 03:58	1

Client Sample ID: GP-15 (6-8)

Date Collected: 05/02/17 10:00

Date Received: 05/03/17 09:00

Lab Sample ID: 500-127508-8

Matrix: Solid

Percent Solids: 85.0

Method: WDNR - Wisconsin - Gasoline Range Organics (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<21		30	21	ug/Kg	☼	05/05/17 15:52	05/10/17 18:55	1
Ethylbenzene	<23		30	23	ug/Kg	☼	05/05/17 15:52	05/10/17 18:55	1
Methyl tert-butyl ether	<14		30	14	ug/Kg	☼	05/05/17 15:52	05/10/17 18:55	1
Naphthalene	<140		300	140	ug/Kg	☼	05/05/17 15:52	05/10/17 18:55	1
Toluene	<20		30	20	ug/Kg	☼	05/05/17 15:52	05/10/17 18:55	1
1,2,4-Trimethylbenzene	<18		30	18	ug/Kg	☼	05/05/17 15:52	05/10/17 18:55	1
1,3,5-Trimethylbenzene	<18		30	18	ug/Kg	☼	05/05/17 15:52	05/10/17 18:55	1
Xylenes, Total	<36		89	36	ug/Kg	☼	05/05/17 15:52	05/10/17 18:55	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	89		80 - 120	05/05/17 15:52	05/10/17 18:55	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	7.5		0.51	0.23	mg/Kg	☼	05/06/17 11:05	05/11/17 04:02	1

Client Sample ID: GP-16 (2-4)

Date Collected: 05/02/17 10:30

Date Received: 05/03/17 09:00

Lab Sample ID: 500-127508-9

Matrix: Solid

Percent Solids: 81.5

Method: WDNR - Wisconsin - Gasoline Range Organics (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<21		30	21	ug/Kg	☼	05/05/17 15:52	05/10/17 19:22	1
Ethylbenzene	<23		30	23	ug/Kg	☼	05/05/17 15:52	05/10/17 19:22	1
Methyl tert-butyl ether	<14		30	14	ug/Kg	☼	05/05/17 15:52	05/10/17 19:22	1
Naphthalene	<140		300	140	ug/Kg	☼	05/05/17 15:52	05/10/17 19:22	1
Toluene	<20		30	20	ug/Kg	☼	05/05/17 15:52	05/10/17 19:22	1
1,2,4-Trimethylbenzene	22	J	30	18	ug/Kg	☼	05/05/17 15:52	05/10/17 19:22	1
1,3,5-Trimethylbenzene	<18		30	18	ug/Kg	☼	05/05/17 15:52	05/10/17 19:22	1

TestAmerica Chicago

Client Sample Results

Client: TRC Environmental Corporation.
Project/Site: STH 11 Kentucky to Kearney - 275788

TestAmerica Job ID: 500-127508-1

Client Sample ID: GP-16 (2-4)

Date Collected: 05/02/17 10:30

Date Received: 05/03/17 09:00

Lab Sample ID: 500-127508-9

Matrix: Solid

Percent Solids: 81.5

Method: WDNR - Wisconsin - Gasoline Range Organics (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Xylenes, Total	<36		89	36	ug/Kg	☼	05/05/17 15:52	05/10/17 19:22	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	91		80 - 120	05/05/17 15:52	05/10/17 19:22	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	16		0.56	0.26	mg/Kg	☼	05/06/17 11:05	05/11/17 04:06	1

Client Sample ID: GP-16 (6-8)

Date Collected: 05/02/17 10:35

Date Received: 05/03/17 09:00

Lab Sample ID: 500-127508-10

Matrix: Solid

Percent Solids: 83.9

Method: WDNR - Wisconsin - Gasoline Range Organics (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<22		30	22	ug/Kg	☼	05/05/17 15:52	05/10/17 19:48	1
Ethylbenzene	<23		30	23	ug/Kg	☼	05/05/17 15:52	05/10/17 19:48	1
Methyl tert-butyl ether	<15		30	15	ug/Kg	☼	05/05/17 15:52	05/10/17 19:48	1
Naphthalene	<150		300	150	ug/Kg	☼	05/05/17 15:52	05/10/17 19:48	1
Toluene	<21		30	21	ug/Kg	☼	05/05/17 15:52	05/10/17 19:48	1
1,2,4-Trimethylbenzene	<18		30	18	ug/Kg	☼	05/05/17 15:52	05/10/17 19:48	1
1,3,5-Trimethylbenzene	<18		30	18	ug/Kg	☼	05/05/17 15:52	05/10/17 19:48	1
Xylenes, Total	<36		91	36	ug/Kg	☼	05/05/17 15:52	05/10/17 19:48	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	91		80 - 120	05/05/17 15:52	05/10/17 19:48	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	8.5		0.56	0.26	mg/Kg	☼	05/06/17 11:05	05/11/17 04:10	1

Client Sample ID: GP-17 (2-4)

Date Collected: 05/02/17 10:50

Date Received: 05/03/17 09:00

Lab Sample ID: 500-127508-11

Matrix: Solid

Percent Solids: 91.5

Method: WDNR - Wisconsin - Gasoline Range Organics (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<20		28	20	ug/Kg	☼	05/05/17 15:52	05/10/17 20:15	1
Ethylbenzene	<22		28	22	ug/Kg	☼	05/05/17 15:52	05/10/17 20:15	1
Methyl tert-butyl ether	<14		28	14	ug/Kg	☼	05/05/17 15:52	05/10/17 20:15	1
Naphthalene	<140		280	140	ug/Kg	☼	05/05/17 15:52	05/10/17 20:15	1
Toluene	<19		28	19	ug/Kg	☼	05/05/17 15:52	05/10/17 20:15	1
1,2,4-Trimethylbenzene	<17		28	17	ug/Kg	☼	05/05/17 15:52	05/10/17 20:15	1
1,3,5-Trimethylbenzene	<17		28	17	ug/Kg	☼	05/05/17 15:52	05/10/17 20:15	1
Xylenes, Total	<34		85	34	ug/Kg	☼	05/05/17 15:52	05/10/17 20:15	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	91		80 - 120	05/05/17 15:52	05/10/17 20:15	1

TestAmerica Chicago

Client Sample Results

Client: TRC Environmental Corporation.
Project/Site: STH 11 Kentucky to Kearney - 275788

TestAmerica Job ID: 500-127508-1

Client Sample ID: GP-17 (2-4)

Date Collected: 05/02/17 10:50

Date Received: 05/03/17 09:00

Lab Sample ID: 500-127508-11

Matrix: Solid

Percent Solids: 91.5

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	7.1		0.51	0.24	mg/Kg	☼	05/06/17 11:05	05/11/17 04:15	1

Client Sample ID: GP-17 (6-8)

Date Collected: 05/02/17 10:55

Date Received: 05/03/17 09:00

Lab Sample ID: 500-127508-12

Matrix: Solid

Percent Solids: 79.8

Method: WDNR - Wisconsin - Gasoline Range Organics (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<23		32	23	ug/Kg	☼	05/05/17 15:52	05/10/17 20:42	1
Ethylbenzene	<24		32	24	ug/Kg	☼	05/05/17 15:52	05/10/17 20:42	1
Methyl tert-butyl ether	<15		32	15	ug/Kg	☼	05/05/17 15:52	05/10/17 20:42	1
Naphthalene	<150		320	150	ug/Kg	☼	05/05/17 15:52	05/10/17 20:42	1
Toluene	<22		32	22	ug/Kg	☼	05/05/17 15:52	05/10/17 20:42	1
1,2,4-Trimethylbenzene	<19		32	19	ug/Kg	☼	05/05/17 15:52	05/10/17 20:42	1
1,3,5-Trimethylbenzene	<19		32	19	ug/Kg	☼	05/05/17 15:52	05/10/17 20:42	1
Xylenes, Total	<39		97	39	ug/Kg	☼	05/05/17 15:52	05/10/17 20:42	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	90		80 - 120	05/05/17 15:52	05/10/17 20:42	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	9.6		0.57	0.27	mg/Kg	☼	05/06/17 11:05	05/11/17 13:32	1

Client Sample ID: GP-18 (2-4)

Date Collected: 05/02/17 11:25

Date Received: 05/03/17 09:00

Lab Sample ID: 500-127508-13

Matrix: Solid

Percent Solids: 94.0

Method: WDNR - Wisconsin - Gasoline Range Organics (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trimethylbenzene	<14		24	14	ug/Kg	☼	05/05/17 15:52	05/10/17 21:09	1
1,3,5-Trimethylbenzene	<14		24	14	ug/Kg	☼	05/05/17 15:52	05/10/17 21:09	1
Benzene	<17		24	17	ug/Kg	☼	05/05/17 15:52	05/10/17 21:09	1
Ethylbenzene	<18		24	18	ug/Kg	☼	05/05/17 15:52	05/10/17 21:09	1
Methyl tert-butyl ether	<11		24	11	ug/Kg	☼	05/05/17 15:52	05/10/17 21:09	1
Naphthalene	<110		240	110	ug/Kg	☼	05/05/17 15:52	05/10/17 21:09	1
Toluene	<16		24	16	ug/Kg	☼	05/05/17 15:52	05/10/17 21:09	1
Xylenes, Total	<28		71	28	ug/Kg	☼	05/05/17 15:52	05/10/17 21:09	1
Wisconsin GRO	<2400		4700	2400	ug/Kg	☼	05/05/17 15:52	05/10/17 21:09	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	91		80 - 120	05/05/17 15:52	05/10/17 21:09	1
a,a,a-Trifluorotoluene	101		80 - 120	05/05/17 15:52	05/10/17 21:09	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	10		0.48	0.22	mg/Kg	☼	05/06/17 11:05	05/11/17 04:23	1

TestAmerica Chicago

Client Sample Results

Client: TRC Environmental Corporation.
Project/Site: STH 11 Kentucky to Kearney - 275788

TestAmerica Job ID: 500-127508-1

Client Sample ID: GP-18 (6-8)

Lab Sample ID: 500-127508-14

Date Collected: 05/02/17 11:30

Matrix: Solid

Date Received: 05/03/17 09:00

Percent Solids: 93.5

Method: WDNR - Wisconsin - Gasoline Range Organics (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<20		28	20	ug/Kg	☼	05/05/17 15:52	05/10/17 21:36	1
Ethylbenzene	<21		28	21	ug/Kg	☼	05/05/17 15:52	05/10/17 21:36	1
Methyl tert-butyl ether	<13		28	13	ug/Kg	☼	05/05/17 15:52	05/10/17 21:36	1
Naphthalene	<130		280	130	ug/Kg	☼	05/05/17 15:52	05/10/17 21:36	1
Toluene	<19		28	19	ug/Kg	☼	05/05/17 15:52	05/10/17 21:36	1
1,2,4-Trimethylbenzene	<17		28	17	ug/Kg	☼	05/05/17 15:52	05/10/17 21:36	1
1,3,5-Trimethylbenzene	<17		28	17	ug/Kg	☼	05/05/17 15:52	05/10/17 21:36	1
Xylenes, Total	<33		83	33	ug/Kg	☼	05/05/17 15:52	05/10/17 21:36	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	91		80 - 120	05/05/17 15:52	05/10/17 21:36	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	7.3		0.51	0.24	mg/Kg	☼	05/06/17 11:05	05/11/17 04:35	1

Client Sample ID: GP-19 (2-4)

Lab Sample ID: 500-127508-15

Date Collected: 05/02/17 11:50

Matrix: Solid

Date Received: 05/03/17 09:00

Percent Solids: 95.2

Method: WDNR - Wisconsin - Gasoline Range Organics (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<17		24	17	ug/Kg	☼	05/05/17 15:52	05/10/17 23:23	1
Ethylbenzene	<18		24	18	ug/Kg	☼	05/05/17 15:52	05/10/17 23:23	1
Methyl tert-butyl ether	<11		24	11	ug/Kg	☼	05/05/17 15:52	05/10/17 23:23	1
Naphthalene	<110		240	110	ug/Kg	☼	05/05/17 15:52	05/10/17 23:23	1
Toluene	<16		24	16	ug/Kg	☼	05/05/17 15:52	05/10/17 23:23	1
1,2,4-Trimethylbenzene	<14		24	14	ug/Kg	☼	05/05/17 15:52	05/10/17 23:23	1
1,3,5-Trimethylbenzene	<14		24	14	ug/Kg	☼	05/05/17 15:52	05/10/17 23:23	1
Xylenes, Total	<28		71	28	ug/Kg	☼	05/05/17 15:52	05/10/17 23:23	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	89		80 - 120	05/05/17 15:52	05/10/17 23:23	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	23		0.45	0.21	mg/Kg	☼	05/06/17 11:05	05/11/17 04:39	1

Client Sample ID: GP-19 (6-8)

Lab Sample ID: 500-127508-16

Date Collected: 05/02/17 11:55

Matrix: Solid

Date Received: 05/03/17 09:00

Percent Solids: 82.1

Method: WDNR - Wisconsin - Gasoline Range Organics (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<21		30	21	ug/Kg	☼	05/05/17 15:52	05/10/17 23:50	1
Ethylbenzene	<23		30	23	ug/Kg	☼	05/05/17 15:52	05/10/17 23:50	1
Methyl tert-butyl ether	<14		30	14	ug/Kg	☼	05/05/17 15:52	05/10/17 23:50	1
Naphthalene	<140		300	140	ug/Kg	☼	05/05/17 15:52	05/10/17 23:50	1
Toluene	<20		30	20	ug/Kg	☼	05/05/17 15:52	05/10/17 23:50	1
1,2,4-Trimethylbenzene	<18		30	18	ug/Kg	☼	05/05/17 15:52	05/10/17 23:50	1
1,3,5-Trimethylbenzene	<18		30	18	ug/Kg	☼	05/05/17 15:52	05/10/17 23:50	1

TestAmerica Chicago

Client Sample Results

Client: TRC Environmental Corporation.
Project/Site: STH 11 Kentucky to Kearney - 275788

TestAmerica Job ID: 500-127508-1

Client Sample ID: GP-19 (6-8)

Date Collected: 05/02/17 11:55

Date Received: 05/03/17 09:00

Lab Sample ID: 500-127508-16

Matrix: Solid

Percent Solids: 82.1

Method: WDNR - Wisconsin - Gasoline Range Organics (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Xylenes, Total	<36		89	36	ug/Kg	☼	05/05/17 15:52	05/10/17 23:50	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	90		80 - 120	05/05/17 15:52	05/10/17 23:50	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	11		0.58	0.27	mg/Kg	☼	05/06/17 11:05	05/11/17 04:50	1

Client Sample ID: GP-20 (2-4)

Date Collected: 05/02/17 12:20

Date Received: 05/03/17 09:00

Lab Sample ID: 500-127508-17

Matrix: Solid

Percent Solids: 91.3

Method: WDNR - Wisconsin - Gasoline Range Organics (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<19		27	19	ug/Kg	☼	05/05/17 15:52	05/11/17 00:17	1
Ethylbenzene	<20		27	20	ug/Kg	☼	05/05/17 15:52	05/11/17 00:17	1
Methyl tert-butyl ether	<13		27	13	ug/Kg	☼	05/05/17 15:52	05/11/17 00:17	1
Naphthalene	<130		270	130	ug/Kg	☼	05/05/17 15:52	05/11/17 00:17	1
Toluene	<18		27	18	ug/Kg	☼	05/05/17 15:52	05/11/17 00:17	1
1,2,4-Trimethylbenzene	16	J	27	16	ug/Kg	☼	05/05/17 15:52	05/11/17 00:17	1
1,3,5-Trimethylbenzene	<16		27	16	ug/Kg	☼	05/05/17 15:52	05/11/17 00:17	1
Xylenes, Total	<32		80	32	ug/Kg	☼	05/05/17 15:52	05/11/17 00:17	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	90		80 - 120	05/05/17 15:52	05/11/17 00:17	1

Client Sample ID: GP-20 (6-8)

Date Collected: 05/02/17 12:25

Date Received: 05/03/17 09:00

Lab Sample ID: 500-127508-18

Matrix: Solid

Percent Solids: 90.1

Method: WDNR - Wisconsin - Gasoline Range Organics (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<20		27	20	ug/Kg	☼	05/05/17 15:52	05/11/17 00:44	1
Ethylbenzene	<21		27	21	ug/Kg	☼	05/05/17 15:52	05/11/17 00:44	1
Methyl tert-butyl ether	<13		27	13	ug/Kg	☼	05/05/17 15:52	05/11/17 00:44	1
Naphthalene	<130		270	130	ug/Kg	☼	05/05/17 15:52	05/11/17 00:44	1
Toluene	<19		27	19	ug/Kg	☼	05/05/17 15:52	05/11/17 00:44	1
1,2,4-Trimethylbenzene	<16		27	16	ug/Kg	☼	05/05/17 15:52	05/11/17 00:44	1
1,3,5-Trimethylbenzene	<16		27	16	ug/Kg	☼	05/05/17 15:52	05/11/17 00:44	1
Xylenes, Total	<33		82	33	ug/Kg	☼	05/05/17 15:52	05/11/17 00:44	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	88		80 - 120	05/05/17 15:52	05/11/17 00:44	1

TestAmerica Chicago

Client Sample Results

Client: TRC Environmental Corporation.
Project/Site: STH 11 Kentucky to Kearney - 275788

TestAmerica Job ID: 500-127508-1

Client Sample ID: GP-20 (14-16)

Date Collected: 05/02/17 12:30

Date Received: 05/03/17 09:00

Lab Sample ID: 500-127508-19

Matrix: Solid

Percent Solids: 86.6

Method: WDNR - Wisconsin - Gasoline Range Organics (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	79		30	21	ug/Kg	☼	05/05/17 15:52	05/11/17 12:11	1
Ethylbenzene	<23		30	23	ug/Kg	☼	05/05/17 15:52	05/11/17 12:11	1
Methyl tert-butyl ether	<14		30	14	ug/Kg	☼	05/05/17 15:52	05/11/17 12:11	1
Naphthalene	440		300	140	ug/Kg	☼	05/05/17 15:52	05/11/17 12:11	1
Toluene	<20		30	20	ug/Kg	☼	05/05/17 15:52	05/11/17 12:11	1
1,2,4-Trimethylbenzene	<18		30	18	ug/Kg	☼	05/05/17 15:52	05/11/17 12:11	1
1,3,5-Trimethylbenzene	25 J		30	18	ug/Kg	☼	05/05/17 15:52	05/11/17 12:11	1
Xylenes, Total	36 J		89	36	ug/Kg	☼	05/05/17 15:52	05/11/17 12:11	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>a,a,a-Trifluorotoluene</i>	86		80 - 120				05/05/17 15:52	05/11/17 12:11	1

Client Sample ID: GP-21 (2-4)

Date Collected: 05/02/17 12:50

Date Received: 05/03/17 09:00

Lab Sample ID: 500-127508-20

Matrix: Solid

Percent Solids: 80.8

Method: WDNR - Wisconsin - Gasoline Range Organics (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	94		31	22	ug/Kg	☼	05/05/17 15:52	05/11/17 09:30	1
Ethylbenzene	35		31	24	ug/Kg	☼	05/05/17 15:52	05/11/17 09:30	1
Methyl tert-butyl ether	160		31	15	ug/Kg	☼	05/05/17 15:52	05/11/17 09:30	1
Naphthalene	510		310	150	ug/Kg	☼	05/05/17 15:52	05/11/17 09:30	1
Toluene	25 J		31	21	ug/Kg	☼	05/05/17 15:52	05/11/17 09:30	1
1,2,4-Trimethylbenzene	62		31	19	ug/Kg	☼	05/05/17 15:52	05/11/17 09:30	1
1,3,5-Trimethylbenzene	<19		31	19	ug/Kg	☼	05/05/17 15:52	05/11/17 09:30	1
Xylenes, Total	61 J		94	37	ug/Kg	☼	05/05/17 15:52	05/11/17 09:30	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>a,a,a-Trifluorotoluene</i>	98		80 - 120				05/05/17 15:52	05/11/17 09:30	1

Client Sample ID: GP-21 (6-8)

Date Collected: 05/02/17 12:55

Date Received: 05/03/17 09:00

Lab Sample ID: 500-127508-21

Matrix: Solid

Percent Solids: 81.1

Method: WDNR - Wisconsin - Gasoline Range Organics (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trimethylbenzene	2600		31	19	ug/Kg	☼	05/05/17 15:52	05/11/17 10:51	1
1,3,5-Trimethylbenzene	1000		31	19	ug/Kg	☼	05/05/17 15:52	05/11/17 10:51	1
Benzene	610		31	23	ug/Kg	☼	05/05/17 15:52	05/11/17 10:51	1
Ethylbenzene	7200		31	24	ug/Kg	☼	05/05/17 15:52	05/11/17 10:51	1
Methyl tert-butyl ether	17 J		31	15	ug/Kg	☼	05/05/17 15:52	05/11/17 10:51	1
Naphthalene	55000		6300	3000	ug/Kg	☼	05/05/17 15:52	05/11/17 10:24	20
Toluene	590		31	21	ug/Kg	☼	05/05/17 15:52	05/11/17 10:51	1
Xylenes, Total	2500		94	38	ug/Kg	☼	05/05/17 15:52	05/11/17 10:51	1
Wisconsin GRO	200000		130000	63000	ug/Kg	☼	05/05/17 15:52	05/11/17 10:24	20
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>a,a,a-Trifluorotoluene</i>	125	X	80 - 120				05/05/17 15:52	05/11/17 10:24	20
<i>a,a,a-Trifluorotoluene</i>	88		80 - 120				05/05/17 15:52	05/11/17 10:24	20
<i>a,a,a-Trifluorotoluene</i>	173	X	80 - 120				05/05/17 15:52	05/11/17 10:51	1

TestAmerica Chicago

Client Sample Results

Client: TRC Environmental Corporation.
Project/Site: STH 11 Kentucky to Kearney - 275788

TestAmerica Job ID: 500-127508-1

Client Sample ID: GP-22 (2-4)

Lab Sample ID: 500-127508-22

Date Collected: 05/02/17 13:35

Matrix: Solid

Date Received: 05/03/17 09:00

Percent Solids: 85.9

Method: WDNR - Wisconsin - Gasoline Range Organics (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<24		33	24	ug/Kg	☼	05/05/17 15:52	05/11/17 02:31	1
Ethylbenzene	<25		33	25	ug/Kg	☼	05/05/17 15:52	05/11/17 02:31	1
Methyl tert-butyl ether	<16		33	16	ug/Kg	☼	05/05/17 15:52	05/11/17 02:31	1
Naphthalene	<160		330	160	ug/Kg	☼	05/05/17 15:52	05/11/17 09:57	1
Toluene	<22		33	22	ug/Kg	☼	05/05/17 15:52	05/11/17 02:31	1
1,2,4-Trimethylbenzene	91		33	20	ug/Kg	☼	05/05/17 15:52	05/11/17 02:31	1
1,3,5-Trimethylbenzene	<20		33	20	ug/Kg	☼	05/05/17 15:52	05/11/17 02:31	1
Xylenes, Total	<40		99	40	ug/Kg	☼	05/05/17 15:52	05/11/17 02:31	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>a,a,a-Trifluorotoluene</i>	81		80 - 120				05/05/17 15:52	05/11/17 02:31	1
<i>a,a,a-Trifluorotoluene</i>	89		80 - 120				05/05/17 15:52	05/11/17 09:57	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	44		0.50	0.23	mg/Kg	☼	05/06/17 11:05	05/11/17 04:54	1

Client Sample ID: GP-22 (6-8)

Lab Sample ID: 500-127508-23

Date Collected: 05/02/17 13:40

Matrix: Solid

Date Received: 05/03/17 09:00

Percent Solids: 93.6

Method: WDNR - Wisconsin - Gasoline Range Organics (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<17		23	17	ug/Kg	☼	05/05/17 15:52	05/11/17 02:58	1
Ethylbenzene	<18		23	18	ug/Kg	☼	05/05/17 15:52	05/11/17 02:58	1
Methyl tert-butyl ether	<11		23	11	ug/Kg	☼	05/05/17 15:52	05/11/17 02:58	1
Naphthalene	<110		230	110	ug/Kg	☼	05/05/17 15:52	05/11/17 02:58	1
Toluene	<16		23	16	ug/Kg	☼	05/05/17 15:52	05/11/17 02:58	1
1,2,4-Trimethylbenzene	<14		23	14	ug/Kg	☼	05/05/17 15:52	05/11/17 02:58	1
1,3,5-Trimethylbenzene	<14		23	14	ug/Kg	☼	05/05/17 15:52	05/11/17 02:58	1
Xylenes, Total	<28		70	28	ug/Kg	☼	05/05/17 15:52	05/11/17 02:58	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>a,a,a-Trifluorotoluene</i>	88		80 - 120				05/05/17 15:52	05/11/17 02:58	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	9.4		0.48	0.22	mg/Kg	☼	05/06/17 11:05	05/11/17 04:57	1

Client Sample ID: GP-23 (2-4)

Lab Sample ID: 500-127508-24

Date Collected: 05/02/17 13:50

Matrix: Solid

Date Received: 05/03/17 09:00

Percent Solids: 89.0

Method: WDNR - Wisconsin - Gasoline Range Organics (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<21		29	21	ug/Kg	☼	05/05/17 15:52	05/11/17 03:25	1
Ethylbenzene	<22		29	22	ug/Kg	☼	05/05/17 15:52	05/11/17 03:25	1
Methyl tert-butyl ether	<14		29	14	ug/Kg	☼	05/05/17 15:52	05/11/17 03:25	1
Naphthalene	<140		290	140	ug/Kg	☼	05/05/17 15:52	05/11/17 03:25	1
Toluene	<19		29	19	ug/Kg	☼	05/05/17 15:52	05/11/17 03:25	1
1,2,4-Trimethylbenzene	<17		29	17	ug/Kg	☼	05/05/17 15:52	05/11/17 03:25	1

TestAmerica Chicago

Client Sample Results

Client: TRC Environmental Corporation.
Project/Site: STH 11 Kentucky to Kearney - 275788

TestAmerica Job ID: 500-127508-1

Client Sample ID: GP-23 (2-4)

Date Collected: 05/02/17 13:50

Date Received: 05/03/17 09:00

Lab Sample ID: 500-127508-24

Matrix: Solid

Percent Solids: 89.0

Method: WDNR - Wisconsin - Gasoline Range Organics (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3,5-Trimethylbenzene	<17		29	17	ug/Kg	☼	05/05/17 15:52	05/11/17 03:25	1
Xylenes, Total	<34		86	34	ug/Kg	☼	05/05/17 15:52	05/11/17 03:25	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	87		80 - 120				05/05/17 15:52	05/11/17 03:25	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	8.9		0.51	0.23	mg/Kg	☼	05/06/17 11:05	05/11/17 05:01	1

Client Sample ID: GP-23 (6-8)

Date Collected: 05/02/17 13:05

Date Received: 05/03/17 09:00

Lab Sample ID: 500-127508-25

Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	<0.010		0.020	0.010	mg/L			05/09/17 02:01	20
1,2-Dichloroethane	<0.010		0.020	0.010	mg/L			05/09/17 02:01	20
Benzene	<0.010		0.020	0.010	mg/L			05/09/17 02:01	20
Carbon tetrachloride	<0.010		0.020	0.010	mg/L			05/09/17 02:01	20
Chlorobenzene	<0.010		0.020	0.010	mg/L			05/09/17 02:01	20
Chloroform	<0.020		0.040	0.020	mg/L			05/09/17 02:01	20
Methyl Ethyl Ketone	<0.050		0.10	0.050	mg/L			05/09/17 02:01	20
Tetrachloroethene	<0.010		0.020	0.010	mg/L			05/09/17 02:01	20
Trichloroethene	<0.010		0.020	0.010	mg/L			05/09/17 02:01	20
Vinyl chloride	<0.010		0.020	0.010	mg/L			05/09/17 02:01	20
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	100		75 - 126					05/09/17 02:01	20
4-Bromofluorobenzene (Surr)	109		72 - 124					05/09/17 02:01	20
Dibromofluoromethane	84		75 - 120					05/09/17 02:01	20
Toluene-d8 (Surr)	103		75 - 120					05/09/17 02:01	20

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	<0.020		0.020	0.020	mg/L		05/08/17 07:42	05/08/17 18:41	1
2,4,5-Trichlorophenol	<0.10		0.10	0.10	mg/L		05/08/17 07:42	05/08/17 18:41	1
2,4,6-Trichlorophenol	<0.050		0.050	0.050	mg/L		05/08/17 07:42	05/08/17 18:41	1
2,4-Dinitrotoluene	<0.010		0.010	0.010	mg/L		05/08/17 07:42	05/08/17 18:41	1
2-Methylphenol	<0.020		0.020	0.020	mg/L		05/08/17 07:42	05/08/17 18:41	1
3 & 4 Methylphenol	<0.020		0.020	0.020	mg/L		05/08/17 07:42	05/08/17 18:41	1
Hexachlorobenzene	<0.0050		0.0050	0.0050	mg/L		05/08/17 07:42	05/08/17 18:41	1
Hexachlorobutadiene	<0.050		0.050	0.050	mg/L		05/08/17 07:42	05/08/17 18:41	1
Hexachloroethane	<0.050		0.050	0.050	mg/L		05/08/17 07:42	05/08/17 18:41	1
Nitrobenzene	<0.010		0.010	0.010	mg/L		05/08/17 07:42	05/08/17 18:41	1
Pentachlorophenol	<0.20		0.20	0.20	mg/L		05/08/17 07:42	05/08/17 18:41	1
Pyridine	<0.20		0.20	0.20	mg/L		05/08/17 07:42	05/08/17 18:41	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	91		40 - 145				05/08/17 07:42	05/08/17 18:41	1
2-Fluorobiphenyl	90		34 - 110				05/08/17 07:42	05/08/17 18:41	1

TestAmerica Chicago

Client Sample Results

Client: TRC Environmental Corporation.
Project/Site: STH 11 Kentucky to Kearney - 275788

TestAmerica Job ID: 500-127508-1

Client Sample ID: GP-23 (6-8)

Lab Sample ID: 500-127508-25

Date Collected: 05/02/17 13:05

Matrix: Solid

Date Received: 05/03/17 09:00

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol (Surr)	62		27 - 110	05/08/17 07:42	05/08/17 18:41	1
Nitrobenzene-d5 (Surr)	99		36 - 120	05/08/17 07:42	05/08/17 18:41	1
Phenol-d5 (Surr)	43		20 - 100	05/08/17 07:42	05/08/17 18:41	1
Terphenyl-d14 (Surr)	108		40 - 145	05/08/17 07:42	05/08/17 18:41	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.010		0.050	0.010	mg/L		05/08/17 08:10	05/08/17 21:55	1
Barium	0.44	J	0.50	0.050	mg/L		05/08/17 08:10	05/08/17 21:55	1
Cadmium	<0.0020		0.0050	0.0020	mg/L		05/08/17 08:10	05/08/17 21:55	1
Chromium	<0.010		0.025	0.010	mg/L		05/08/17 08:10	05/08/17 21:55	1
Copper	<0.010		0.025	0.010	mg/L		05/08/17 08:10	05/08/17 21:55	1
Lead	<0.0075		0.050	0.0075	mg/L		05/08/17 08:10	05/08/17 21:55	1
Nickel	0.022	J	0.025	0.010	mg/L		05/08/17 08:10	05/08/17 21:55	1
Selenium	<0.020		0.050	0.020	mg/L		05/08/17 08:10	05/08/17 21:55	1
Silver	<0.010		0.025	0.010	mg/L		05/08/17 08:10	05/08/17 21:55	1
Zinc	<0.020		0.10	0.020	mg/L		05/08/17 08:10	05/08/17 21:55	1

Method: 7470A - Mercury (CVAA) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		05/08/17 13:40	05/09/17 10:16	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Flashpoint	>176		40.0	40.0	Degrees F			05/15/17 14:30	1
Cyanide, Total	0.28	J	0.41	0.14	mg/Kg		05/15/17 17:10	05/15/17 20:21	1
Sulfide	<4.6		9.8	4.6	mg/Kg		05/15/17 17:36	05/15/17 21:53	1
pH	9.0		0.2	0.2	SU			05/09/17 16:08	1
Paint Filter	PASS				No Unit			05/15/17 21:43	1
Specific Gravity	2.2442				NONE			05/12/17 22:19	1

Client Sample ID: GP-23 (6-8)

Lab Sample ID: 500-127508-25

Date Collected: 05/02/17 13:05

Matrix: Solid

Date Received: 05/03/17 09:00

Percent Solids: 85.3

Method: WDNR - Wisconsin - Gasoline Range Organics (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trimethylbenzene	<17		29	17	ug/Kg	☼	05/05/17 15:52	05/11/17 06:59	1
1,3,5-Trimethylbenzene	<17		29	17	ug/Kg	☼	05/05/17 15:52	05/11/17 06:59	1
Benzene	<21		29	21	ug/Kg	☼	05/05/17 15:52	05/11/17 06:59	1
Ethylbenzene	<22		29	22	ug/Kg	☼	05/05/17 15:52	05/11/17 06:59	1
Methyl tert-butyl ether	<14		29	14	ug/Kg	☼	05/05/17 15:52	05/11/17 06:59	1
Naphthalene	170	J	290	140	ug/Kg	☼	05/05/17 15:52	05/11/17 06:59	1
Toluene	<20		29	20	ug/Kg	☼	05/05/17 15:52	05/11/17 06:59	1
Xylenes, Total	<35		87	35	ug/Kg	☼	05/05/17 15:52	05/11/17 06:59	1
Wisconsin GRO	<2900		5800	2900	ug/Kg	☼	05/05/17 15:52	05/11/17 06:59	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	87		80 - 120	05/05/17 15:52	05/11/17 06:59	1
a,a,a-Trifluorotoluene	97		80 - 120	05/05/17 15:52	05/11/17 06:59	1

TestAmerica Chicago

Client Sample Results

Client: TRC Environmental Corporation.
Project/Site: STH 11 Kentucky to Kearney - 275788

TestAmerica Job ID: 500-127508-1

Client Sample ID: GP-23 (6-8)

Date Collected: 05/02/17 13:05

Date Received: 05/03/17 09:00

Lab Sample ID: 500-127508-25

Matrix: Solid

Percent Solids: 86.8

Method: 8082A - 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	☼	05/09/17 16:38	05/10/17 14:21	1
PCB-1221	<8.0		18	8.0	ug/Kg	☼	05/09/17 16:38	05/10/17 14:21	1
PCB-1232	<8.0		18	8.0	ug/Kg	☼	05/09/17 16:38	05/10/17 14:21	1
PCB-1242	<6.0		18	6.0	ug/Kg	☼	05/09/17 16:38	05/10/17 14:21	1
PCB-1248	<7.2		18	7.2	ug/Kg	☼	05/09/17 16:38	05/10/17 14:21	1
PCB-1254	<3.9		18	3.9	ug/Kg	☼	05/09/17 16:38	05/10/17 14:21	1
PCB-1260	<9.0		18	9.0	ug/Kg	☼	05/09/17 16:38	05/10/17 14:21	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	67		49 - 129	05/09/17 16:38	05/10/17 14:21	1
DCB Decachlorobiphenyl	71		37 - 121	05/09/17 16:38	05/10/17 14:21	1

Method: WI-DRO - Wisconsin - Diesel Range Organics (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
WI Diesel Range Organics (C10-C28)	<1.8		4.5	1.8	mg/Kg	☼	05/04/17 11:15	05/05/17 17:25	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
n-Nonane	76		44 - 148	05/04/17 11:15	05/05/17 17:25	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	7.7		0.50	0.23	mg/Kg	☼	05/06/17 11:05	05/11/17 05:06	1

Client Sample ID: GP-24 (2-4)

Date Collected: 05/02/17 14:15

Date Received: 05/03/17 09:00

Lab Sample ID: 500-127508-26

Matrix: Solid

Percent Solids: 86.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<30		66	30	ug/Kg	☼	05/02/17 14:15	05/16/17 06:37	50
1,1,1-Trichloroethane	<25		66	25	ug/Kg	☼	05/02/17 14:15	05/16/17 06:37	50
1,1,2,2-Tetrachloroethane	<26		66	26	ug/Kg	☼	05/02/17 14:15	05/16/17 06:37	50
1,1,2-Trichloroethane	<23		66	23	ug/Kg	☼	05/02/17 14:15	05/16/17 06:37	50
1,1-Dichloroethane	<27 *		66	27	ug/Kg	☼	05/02/17 14:15	05/16/17 06:37	50
1,1-Dichloroethene	<26 *		66	26	ug/Kg	☼	05/02/17 14:15	05/16/17 06:37	50
1,1-Dichloropropene	<20		66	20	ug/Kg	☼	05/02/17 14:15	05/16/17 06:37	50
1,2,3-Trichlorobenzene	<30		66	30	ug/Kg	☼	05/02/17 14:15	05/16/17 06:37	50
1,2,3-Trichloropropane	<27		66	27	ug/Kg	☼	05/02/17 14:15	05/16/17 06:37	50
1,2,4-Trichlorobenzene	<23		66	23	ug/Kg	☼	05/02/17 14:15	05/16/17 06:37	50
1,2,4-Trimethylbenzene	<24		66	24	ug/Kg	☼	05/02/17 14:15	05/16/17 06:37	50
1,2-Dibromo-3-Chloropropane	<130		330	130	ug/Kg	☼	05/02/17 14:15	05/16/17 06:37	50
1,2-Dibromoethane	<25		66	25	ug/Kg	☼	05/02/17 14:15	05/16/17 06:37	50
1,2-Dichlorobenzene	<22		66	22	ug/Kg	☼	05/02/17 14:15	05/16/17 06:37	50
1,2-Dichloroethane	<26		66	26	ug/Kg	☼	05/02/17 14:15	05/16/17 06:37	50
1,2-Dichloropropane	<28		66	28	ug/Kg	☼	05/02/17 14:15	05/16/17 06:37	50
1,3,5-Trimethylbenzene	<25		66	25	ug/Kg	☼	05/02/17 14:15	05/16/17 06:37	50
1,3-Dichlorobenzene	<26		66	26	ug/Kg	☼	05/02/17 14:15	05/16/17 06:37	50
1,3-Dichloropropane	<24		66	24	ug/Kg	☼	05/02/17 14:15	05/16/17 06:37	50
1,4-Dichlorobenzene	<24		66	24	ug/Kg	☼	05/02/17 14:15	05/16/17 06:37	50
2,2-Dichloropropane	<29		66	29	ug/Kg	☼	05/02/17 14:15	05/16/17 06:37	50
2-Chlorotoluene	<21		66	21	ug/Kg	☼	05/02/17 14:15	05/16/17 06:37	50

TestAmerica Chicago

Client Sample Results

Client: TRC Environmental Corporation.
Project/Site: STH 11 Kentucky to Kearney - 275788

TestAmerica Job ID: 500-127508-1

Client Sample ID: GP-24 (2-4)

Lab Sample ID: 500-127508-26

Date Collected: 05/02/17 14:15

Matrix: Solid

Date Received: 05/03/17 09:00

Percent Solids: 86.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Chlorotoluene	<23		66	23	ug/Kg	☼	05/02/17 14:15	05/16/17 06:37	50
Benzene	<9.6		16	9.6	ug/Kg	☼	05/02/17 14:15	05/16/17 06:37	50
Bromobenzene	<23		66	23	ug/Kg	☼	05/02/17 14:15	05/16/17 06:37	50
Bromochloromethane	<28	*	66	28	ug/Kg	☼	05/02/17 14:15	05/16/17 06:37	50
Bromodichloromethane	<25		66	25	ug/Kg	☼	05/02/17 14:15	05/16/17 06:37	50
Bromoform	<32		66	32	ug/Kg	☼	05/02/17 14:15	05/16/17 06:37	50
Bromomethane	<52		130	52	ug/Kg	☼	05/02/17 14:15	05/16/17 06:37	50
Carbon tetrachloride	<25		66	25	ug/Kg	☼	05/02/17 14:15	05/16/17 06:37	50
Chlorobenzene	<25		66	25	ug/Kg	☼	05/02/17 14:15	05/16/17 06:37	50
Chloroethane	<33		66	33	ug/Kg	☼	05/02/17 14:15	05/16/17 06:37	50
Chloroform	<24	*	130	24	ug/Kg	☼	05/02/17 14:15	05/16/17 06:37	50
Chloromethane	<21		66	21	ug/Kg	☼	05/02/17 14:15	05/16/17 06:37	50
cis-1,2-Dichloroethene	<27	*	66	27	ug/Kg	☼	05/02/17 14:15	05/16/17 06:37	50
cis-1,3-Dichloropropene	<27		66	27	ug/Kg	☼	05/02/17 14:15	05/16/17 06:37	50
Dibromochloromethane	<32		66	32	ug/Kg	☼	05/02/17 14:15	05/16/17 06:37	50
Dibromomethane	<18		66	18	ug/Kg	☼	05/02/17 14:15	05/16/17 06:37	50
Dichlorodifluoromethane	<44		130	44	ug/Kg	☼	05/02/17 14:15	05/16/17 06:37	50
Ethylbenzene	<12		16	12	ug/Kg	☼	05/02/17 14:15	05/16/17 06:37	50
Hexachlorobutadiene	<29		66	29	ug/Kg	☼	05/02/17 14:15	05/16/17 06:37	50
Isopropyl ether	<18		66	18	ug/Kg	☼	05/02/17 14:15	05/16/17 06:37	50
Isopropylbenzene	<25		66	25	ug/Kg	☼	05/02/17 14:15	05/16/17 06:37	50
Methyl tert-butyl ether	<26	*	66	26	ug/Kg	☼	05/02/17 14:15	05/16/17 06:37	50
Methylene Chloride	<110	*	330	110	ug/Kg	☼	05/02/17 14:15	05/16/17 06:37	50
Naphthalene	<22	*	66	22	ug/Kg	☼	05/02/17 14:15	05/16/17 06:37	50
n-Butylbenzene	<26		66	26	ug/Kg	☼	05/02/17 14:15	05/16/17 06:37	50
N-Propylbenzene	<27		66	27	ug/Kg	☼	05/02/17 14:15	05/16/17 06:37	50
p-Isopropyltoluene	<24		66	24	ug/Kg	☼	05/02/17 14:15	05/16/17 06:37	50
sec-Butylbenzene	<26		66	26	ug/Kg	☼	05/02/17 14:15	05/16/17 06:37	50
Styrene	<25	*	66	25	ug/Kg	☼	05/02/17 14:15	05/16/17 06:37	50
tert-Butylbenzene	<26		66	26	ug/Kg	☼	05/02/17 14:15	05/16/17 06:37	50
Tetrachloroethene	<24		66	24	ug/Kg	☼	05/02/17 14:15	05/16/17 06:37	50
Toluene	<9.7		16	9.7	ug/Kg	☼	05/02/17 14:15	05/16/17 06:37	50
trans-1,2-Dichloroethene	<23	*	66	23	ug/Kg	☼	05/02/17 14:15	05/16/17 06:37	50
trans-1,3-Dichloropropene	<24		66	24	ug/Kg	☼	05/02/17 14:15	05/16/17 06:37	50
Trichloroethene	<11		33	11	ug/Kg	☼	05/02/17 14:15	05/16/17 06:37	50
Trichlorofluoromethane	<28	*	66	28	ug/Kg	☼	05/02/17 14:15	05/16/17 06:37	50
Vinyl chloride	<17	*	33	17	ug/Kg	☼	05/02/17 14:15	05/16/17 06:37	50
Xylenes, Total	<15		33	15	ug/Kg	☼	05/02/17 14:15	05/16/17 06:37	50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	103		75 - 126	05/02/17 14:15	05/16/17 06:37	50
4-Bromofluorobenzene (Surr)	107		72 - 124	05/02/17 14:15	05/16/17 06:37	50
Dibromofluoromethane	88		75 - 120	05/02/17 14:15	05/16/17 06:37	50
Toluene-d8 (Surr)	93		75 - 120	05/02/17 14:15	05/16/17 06:37	50

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	27	V F1	0.54	0.25	mg/Kg	☼	05/06/17 11:07	05/10/17 18:27	1

TestAmerica Chicago

Client Sample Results

Client: TRC Environmental Corporation.
Project/Site: STH 11 Kentucky to Kearney - 275788

TestAmerica Job ID: 500-127508-1

Client Sample ID: GP-24 (6-8)

Lab Sample ID: 500-127508-27

Date Collected: 05/02/17 14:20

Matrix: Solid

Date Received: 05/03/17 09:00

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	<31		67	31	ug/Kg	☼	05/02/17 14:20	05/16/17 07:03	50
1,1,1-Trichloroethane	<26		67	26	ug/Kg	☼	05/02/17 14:20	05/16/17 07:03	50
1,1,2,2-Tetrachloroethane	<27		67	27	ug/Kg	☼	05/02/17 14:20	05/16/17 07:03	50
1,1,2-Trichloroethane	<24		67	24	ug/Kg	☼	05/02/17 14:20	05/16/17 07:03	50
1,1-Dichloroethane	<28 *		67	28	ug/Kg	☼	05/02/17 14:20	05/16/17 07:03	50
1,1-Dichloroethene	<26 *		67	26	ug/Kg	☼	05/02/17 14:20	05/16/17 07:03	50
1,1-Dichloropropene	<20		67	20	ug/Kg	☼	05/02/17 14:20	05/16/17 07:03	50
1,2,3-Trichlorobenzene	<31		67	31	ug/Kg	☼	05/02/17 14:20	05/16/17 07:03	50
1,2,3-Trichloropropane	<28		67	28	ug/Kg	☼	05/02/17 14:20	05/16/17 07:03	50
1,2,4-Trichlorobenzene	<23		67	23	ug/Kg	☼	05/02/17 14:20	05/16/17 07:03	50
1,2,4-Trimethylbenzene	<24		67	24	ug/Kg	☼	05/02/17 14:20	05/16/17 07:03	50
1,2-Dibromo-3-Chloropropane	<130		340	130	ug/Kg	☼	05/02/17 14:20	05/16/17 07:03	50
1,2-Dibromoethane	<26		67	26	ug/Kg	☼	05/02/17 14:20	05/16/17 07:03	50
1,2-Dichlorobenzene	<23		67	23	ug/Kg	☼	05/02/17 14:20	05/16/17 07:03	50
1,2-Dichloroethane	<26		67	26	ug/Kg	☼	05/02/17 14:20	05/16/17 07:03	50
1,2-Dichloropropane	<29		67	29	ug/Kg	☼	05/02/17 14:20	05/16/17 07:03	50
1,3,5-Trimethylbenzene	<26		67	26	ug/Kg	☼	05/02/17 14:20	05/16/17 07:03	50
1,3-Dichlorobenzene	<27		67	27	ug/Kg	☼	05/02/17 14:20	05/16/17 07:03	50
1,3-Dichloropropane	<24		67	24	ug/Kg	☼	05/02/17 14:20	05/16/17 07:03	50
1,4-Dichlorobenzene	<25		67	25	ug/Kg	☼	05/02/17 14:20	05/16/17 07:03	50
2,2-Dichloropropane	<30		67	30	ug/Kg	☼	05/02/17 14:20	05/16/17 07:03	50
2-Chlorotoluene	<21		67	21	ug/Kg	☼	05/02/17 14:20	05/16/17 07:03	50
4-Chlorotoluene	<24		67	24	ug/Kg	☼	05/02/17 14:20	05/16/17 07:03	50
Benzene	<9.8		17	9.8	ug/Kg	☼	05/02/17 14:20	05/16/17 07:03	50
Bromobenzene	<24		67	24	ug/Kg	☼	05/02/17 14:20	05/16/17 07:03	50
Bromochloromethane	<29 *		67	29	ug/Kg	☼	05/02/17 14:20	05/16/17 07:03	50
Bromodichloromethane	<25		67	25	ug/Kg	☼	05/02/17 14:20	05/16/17 07:03	50
Bromoform	<33		67	33	ug/Kg	☼	05/02/17 14:20	05/16/17 07:03	50
Bromomethane	<54		130	54	ug/Kg	☼	05/02/17 14:20	05/16/17 07:03	50
Carbon tetrachloride	<26		67	26	ug/Kg	☼	05/02/17 14:20	05/16/17 07:03	50
Chlorobenzene	<26		67	26	ug/Kg	☼	05/02/17 14:20	05/16/17 07:03	50
Chloroethane	<34		67	34	ug/Kg	☼	05/02/17 14:20	05/16/17 07:03	50
Chloroform	<25 *		130	25	ug/Kg	☼	05/02/17 14:20	05/16/17 07:03	50
Chloromethane	<22		67	22	ug/Kg	☼	05/02/17 14:20	05/16/17 07:03	50
cis-1,2-Dichloroethene	<27 *		67	27	ug/Kg	☼	05/02/17 14:20	05/16/17 07:03	50
cis-1,3-Dichloropropene	<28		67	28	ug/Kg	☼	05/02/17 14:20	05/16/17 07:03	50
Dibromochloromethane	<33		67	33	ug/Kg	☼	05/02/17 14:20	05/16/17 07:03	50
Dibromomethane	<18		67	18	ug/Kg	☼	05/02/17 14:20	05/16/17 07:03	50
Dichlorodifluoromethane	<45		130	45	ug/Kg	☼	05/02/17 14:20	05/16/17 07:03	50
Ethylbenzene	<12		17	12	ug/Kg	☼	05/02/17 14:20	05/16/17 07:03	50
Hexachlorobutadiene	<30		67	30	ug/Kg	☼	05/02/17 14:20	05/16/17 07:03	50
Isopropyl ether	<19		67	19	ug/Kg	☼	05/02/17 14:20	05/16/17 07:03	50
Isopropylbenzene	<26		67	26	ug/Kg	☼	05/02/17 14:20	05/16/17 07:03	50
Methyl tert-butyl ether	<27 *		67	27	ug/Kg	☼	05/02/17 14:20	05/16/17 07:03	50
Methylene Chloride	<110 *		340	110	ug/Kg	☼	05/02/17 14:20	05/16/17 07:03	50
Naphthalene	<23 *		67	23	ug/Kg	☼	05/02/17 14:20	05/16/17 07:03	50
n-Butylbenzene	<26		67	26	ug/Kg	☼	05/02/17 14:20	05/16/17 07:03	50
N-Propylbenzene	<28		67	28	ug/Kg	☼	05/02/17 14:20	05/16/17 07:03	50
p-Isopropyltoluene	<24		67	24	ug/Kg	☼	05/02/17 14:20	05/16/17 07:03	50

TestAmerica Chicago

Client Sample Results

Client: TRC Environmental Corporation.
Project/Site: STH 11 Kentucky to Kearney - 275788

TestAmerica Job ID: 500-127508-1

Client Sample ID: GP-24 (6-8)

Date Collected: 05/02/17 14:20

Date Received: 05/03/17 09:00

Lab Sample ID: 500-127508-27

Matrix: Solid

Percent Solids: 81.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	<27		67	27	ug/Kg	☼	05/02/17 14:20	05/16/17 07:03	50
Styrene	<26	*	67	26	ug/Kg	☼	05/02/17 14:20	05/16/17 07:03	50
tert-Butylbenzene	<27		67	27	ug/Kg	☼	05/02/17 14:20	05/16/17 07:03	50
Tetrachloroethene	<25		67	25	ug/Kg	☼	05/02/17 14:20	05/16/17 07:03	50
Toluene	<9.9		17	9.9	ug/Kg	☼	05/02/17 14:20	05/16/17 07:03	50
trans-1,2-Dichloroethene	<24	*	67	24	ug/Kg	☼	05/02/17 14:20	05/16/17 07:03	50
trans-1,3-Dichloropropene	<24		67	24	ug/Kg	☼	05/02/17 14:20	05/16/17 07:03	50
Trichloroethene	<11		34	11	ug/Kg	☼	05/02/17 14:20	05/16/17 07:03	50
Trichlorofluoromethane	<29	*	67	29	ug/Kg	☼	05/02/17 14:20	05/16/17 07:03	50
Vinyl chloride	<18	*	34	18	ug/Kg	☼	05/02/17 14:20	05/16/17 07:03	50
Xylenes, Total	<15		34	15	ug/Kg	☼	05/02/17 14:20	05/16/17 07:03	50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	105		75 - 126	05/02/17 14:20	05/16/17 07:03	50
4-Bromofluorobenzene (Surr)	106		72 - 124	05/02/17 14:20	05/16/17 07:03	50
Dibromofluoromethane	90		75 - 120	05/02/17 14:20	05/16/17 07:03	50
Toluene-d8 (Surr)	93		75 - 120	05/02/17 14:20	05/16/17 07:03	50

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	11		0.53	0.25	mg/Kg	☼	05/06/17 11:07	05/10/17 18:54	1

Client Sample ID: GP-25 (2-4)

Date Collected: 05/02/17 14:35

Date Received: 05/03/17 09:00

Lab Sample ID: 500-127508-28

Matrix: Solid

Percent Solids: 86.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<31		66	31	ug/Kg	☼	05/02/17 14:35	05/16/17 07:29	50
1,1,1-Trichloroethane	<25		66	25	ug/Kg	☼	05/02/17 14:35	05/16/17 07:29	50
1,1,2,2-Tetrachloroethane	<26		66	26	ug/Kg	☼	05/02/17 14:35	05/16/17 07:29	50
1,1,2-Trichloroethane	<23		66	23	ug/Kg	☼	05/02/17 14:35	05/16/17 07:29	50
1,1-Dichloroethane	<27	*	66	27	ug/Kg	☼	05/02/17 14:35	05/16/17 07:29	50
1,1-Dichloroethene	<26	*	66	26	ug/Kg	☼	05/02/17 14:35	05/16/17 07:29	50
1,1-Dichloropropene	<20		66	20	ug/Kg	☼	05/02/17 14:35	05/16/17 07:29	50
1,2,3-Trichlorobenzene	<30		66	30	ug/Kg	☼	05/02/17 14:35	05/16/17 07:29	50
1,2,3-Trichloropropane	<27		66	27	ug/Kg	☼	05/02/17 14:35	05/16/17 07:29	50
1,2,4-Trichlorobenzene	<23		66	23	ug/Kg	☼	05/02/17 14:35	05/16/17 07:29	50
1,2,4-Trimethylbenzene	<24		66	24	ug/Kg	☼	05/02/17 14:35	05/16/17 07:29	50
1,2-Dibromo-3-Chloropropane	<130		330	130	ug/Kg	☼	05/02/17 14:35	05/16/17 07:29	50
1,2-Dibromoethane	<26		66	26	ug/Kg	☼	05/02/17 14:35	05/16/17 07:29	50
1,2-Dichlorobenzene	<22		66	22	ug/Kg	☼	05/02/17 14:35	05/16/17 07:29	50
1,2-Dichloroethane	<26		66	26	ug/Kg	☼	05/02/17 14:35	05/16/17 07:29	50
1,2-Dichloropropane	<28		66	28	ug/Kg	☼	05/02/17 14:35	05/16/17 07:29	50
1,3,5-Trimethylbenzene	<25		66	25	ug/Kg	☼	05/02/17 14:35	05/16/17 07:29	50
1,3-Dichlorobenzene	<26		66	26	ug/Kg	☼	05/02/17 14:35	05/16/17 07:29	50
1,3-Dichloropropane	<24		66	24	ug/Kg	☼	05/02/17 14:35	05/16/17 07:29	50
1,4-Dichlorobenzene	<24		66	24	ug/Kg	☼	05/02/17 14:35	05/16/17 07:29	50
2,2-Dichloropropane	<29		66	29	ug/Kg	☼	05/02/17 14:35	05/16/17 07:29	50
2-Chlorotoluene	<21		66	21	ug/Kg	☼	05/02/17 14:35	05/16/17 07:29	50

TestAmerica Chicago

Client Sample Results

Client: TRC Environmental Corporation.
Project/Site: STH 11 Kentucky to Kearney - 275788

TestAmerica Job ID: 500-127508-1

Client Sample ID: GP-25 (2-4)

Lab Sample ID: 500-127508-28

Date Collected: 05/02/17 14:35

Matrix: Solid

Date Received: 05/03/17 09:00

Percent Solids: 86.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Chlorotoluene	<23		66	23	ug/Kg	☼	05/02/17 14:35	05/16/17 07:29	50
Benzene	<9.7		17	9.7	ug/Kg	☼	05/02/17 14:35	05/16/17 07:29	50
Bromobenzene	<24		66	24	ug/Kg	☼	05/02/17 14:35	05/16/17 07:29	50
Bromochloromethane	<28 *		66	28	ug/Kg	☼	05/02/17 14:35	05/16/17 07:29	50
Bromodichloromethane	<25		66	25	ug/Kg	☼	05/02/17 14:35	05/16/17 07:29	50
Bromoform	<32		66	32	ug/Kg	☼	05/02/17 14:35	05/16/17 07:29	50
Bromomethane	<53		130	53	ug/Kg	☼	05/02/17 14:35	05/16/17 07:29	50
Carbon tetrachloride	<25		66	25	ug/Kg	☼	05/02/17 14:35	05/16/17 07:29	50
Chlorobenzene	<26		66	26	ug/Kg	☼	05/02/17 14:35	05/16/17 07:29	50
Chloroethane	<33		66	33	ug/Kg	☼	05/02/17 14:35	05/16/17 07:29	50
Chloroform	<24 *		130	24	ug/Kg	☼	05/02/17 14:35	05/16/17 07:29	50
Chloromethane	<21		66	21	ug/Kg	☼	05/02/17 14:35	05/16/17 07:29	50
cis-1,2-Dichloroethene	<27 *		66	27	ug/Kg	☼	05/02/17 14:35	05/16/17 07:29	50
cis-1,3-Dichloropropene	<28		66	28	ug/Kg	☼	05/02/17 14:35	05/16/17 07:29	50
Dibromochloromethane	<32		66	32	ug/Kg	☼	05/02/17 14:35	05/16/17 07:29	50
Dibromomethane	<18		66	18	ug/Kg	☼	05/02/17 14:35	05/16/17 07:29	50
Dichlorodifluoromethane	<45		130	45	ug/Kg	☼	05/02/17 14:35	05/16/17 07:29	50
Ethylbenzene	<12		17	12	ug/Kg	☼	05/02/17 14:35	05/16/17 07:29	50
Hexachlorobutadiene	<30		66	30	ug/Kg	☼	05/02/17 14:35	05/16/17 07:29	50
Isopropyl ether	<18		66	18	ug/Kg	☼	05/02/17 14:35	05/16/17 07:29	50
Isopropylbenzene	<25		66	25	ug/Kg	☼	05/02/17 14:35	05/16/17 07:29	50
Methyl tert-butyl ether	<26 *		66	26	ug/Kg	☼	05/02/17 14:35	05/16/17 07:29	50
Methylene Chloride	<110 *		330	110	ug/Kg	☼	05/02/17 14:35	05/16/17 07:29	50
Naphthalene	<22 *		66	22	ug/Kg	☼	05/02/17 14:35	05/16/17 07:29	50
n-Butylbenzene	<26		66	26	ug/Kg	☼	05/02/17 14:35	05/16/17 07:29	50
N-Propylbenzene	<27		66	27	ug/Kg	☼	05/02/17 14:35	05/16/17 07:29	50
p-Isopropyltoluene	<24		66	24	ug/Kg	☼	05/02/17 14:35	05/16/17 07:29	50
sec-Butylbenzene	<26		66	26	ug/Kg	☼	05/02/17 14:35	05/16/17 07:29	50
Styrene	<26 *		66	26	ug/Kg	☼	05/02/17 14:35	05/16/17 07:29	50
tert-Butylbenzene	<26		66	26	ug/Kg	☼	05/02/17 14:35	05/16/17 07:29	50
Tetrachloroethene	<24		66	24	ug/Kg	☼	05/02/17 14:35	05/16/17 07:29	50
Toluene	<9.7		17	9.7	ug/Kg	☼	05/02/17 14:35	05/16/17 07:29	50
trans-1,2-Dichloroethene	<23 *		66	23	ug/Kg	☼	05/02/17 14:35	05/16/17 07:29	50
trans-1,3-Dichloropropene	<24		66	24	ug/Kg	☼	05/02/17 14:35	05/16/17 07:29	50
Trichloroethene	<11		33	11	ug/Kg	☼	05/02/17 14:35	05/16/17 07:29	50
Trichlorofluoromethane	<28 *		66	28	ug/Kg	☼	05/02/17 14:35	05/16/17 07:29	50
Vinyl chloride	<17 *		33	17	ug/Kg	☼	05/02/17 14:35	05/16/17 07:29	50
Xylenes, Total	<15		33	15	ug/Kg	☼	05/02/17 14:35	05/16/17 07:29	50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	100		75 - 126	05/02/17 14:35	05/16/17 07:29	50
4-Bromofluorobenzene (Surr)	106		72 - 124	05/02/17 14:35	05/16/17 07:29	50
Dibromofluoromethane	88		75 - 120	05/02/17 14:35	05/16/17 07:29	50
Toluene-d8 (Surr)	92		75 - 120	05/02/17 14:35	05/16/17 07:29	50

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	15		0.52	0.24	mg/Kg	☼	05/06/17 11:07	05/10/17 18:59	1

TestAmerica Chicago

Client Sample Results

Client: TRC Environmental Corporation.
Project/Site: STH 11 Kentucky to Kearney - 275788

TestAmerica Job ID: 500-127508-1

Client Sample ID: GP-25 (6-8)

Lab Sample ID: 500-127508-29

Date Collected: 05/02/17 14:40

Matrix: Solid

Date Received: 05/03/17 09:00

Percent Solids: 81.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<33		72	33	ug/Kg	☼	05/02/17 14:40	05/16/17 07:55	50
1,1,1-Trichloroethane	<27		72	27	ug/Kg	☼	05/02/17 14:40	05/16/17 07:55	50
1,1,1,2,2-Tetrachloroethane	<29		72	29	ug/Kg	☼	05/02/17 14:40	05/16/17 07:55	50
1,1,2-Trichloroethane	<25		72	25	ug/Kg	☼	05/02/17 14:40	05/16/17 07:55	50
1,1-Dichloroethane	<29 *		72	29	ug/Kg	☼	05/02/17 14:40	05/16/17 07:55	50
1,1-Dichloroethene	<28 *		72	28	ug/Kg	☼	05/02/17 14:40	05/16/17 07:55	50
1,1-Dichloropropene	<21		72	21	ug/Kg	☼	05/02/17 14:40	05/16/17 07:55	50
1,2,3-Trichlorobenzene	<33		72	33	ug/Kg	☼	05/02/17 14:40	05/16/17 07:55	50
1,2,3-Trichloropropane	<30		72	30	ug/Kg	☼	05/02/17 14:40	05/16/17 07:55	50
1,2,4-Trichlorobenzene	<25		72	25	ug/Kg	☼	05/02/17 14:40	05/16/17 07:55	50
1,2,4-Trimethylbenzene	<26		72	26	ug/Kg	☼	05/02/17 14:40	05/16/17 07:55	50
1,2-Dibromo-3-Chloropropane	<140		360	140	ug/Kg	☼	05/02/17 14:40	05/16/17 07:55	50
1,2-Dibromoethane	<28		72	28	ug/Kg	☼	05/02/17 14:40	05/16/17 07:55	50
1,2-Dichlorobenzene	<24		72	24	ug/Kg	☼	05/02/17 14:40	05/16/17 07:55	50
1,2-Dichloroethane	<28		72	28	ug/Kg	☼	05/02/17 14:40	05/16/17 07:55	50
1,2-Dichloropropane	<31		72	31	ug/Kg	☼	05/02/17 14:40	05/16/17 07:55	50
1,3,5-Trimethylbenzene	<27		72	27	ug/Kg	☼	05/02/17 14:40	05/16/17 07:55	50
1,3-Dichlorobenzene	<29		72	29	ug/Kg	☼	05/02/17 14:40	05/16/17 07:55	50
1,3-Dichloropropane	<26		72	26	ug/Kg	☼	05/02/17 14:40	05/16/17 07:55	50
1,4-Dichlorobenzene	<26		72	26	ug/Kg	☼	05/02/17 14:40	05/16/17 07:55	50
2,2-Dichloropropane	<32		72	32	ug/Kg	☼	05/02/17 14:40	05/16/17 07:55	50
2-Chlorotoluene	<23		72	23	ug/Kg	☼	05/02/17 14:40	05/16/17 07:55	50
4-Chlorotoluene	<25		72	25	ug/Kg	☼	05/02/17 14:40	05/16/17 07:55	50
Benzene	<10		18	10	ug/Kg	☼	05/02/17 14:40	05/16/17 07:55	50
Bromobenzene	<26		72	26	ug/Kg	☼	05/02/17 14:40	05/16/17 07:55	50
Bromochloromethane	<31 *		72	31	ug/Kg	☼	05/02/17 14:40	05/16/17 07:55	50
Bromodichloromethane	<27		72	27	ug/Kg	☼	05/02/17 14:40	05/16/17 07:55	50
Bromoform	<35		72	35	ug/Kg	☼	05/02/17 14:40	05/16/17 07:55	50
Bromomethane	<57		140	57	ug/Kg	☼	05/02/17 14:40	05/16/17 07:55	50
Carbon tetrachloride	<28		72	28	ug/Kg	☼	05/02/17 14:40	05/16/17 07:55	50
Chlorobenzene	<28		72	28	ug/Kg	☼	05/02/17 14:40	05/16/17 07:55	50
Chloroethane	<36		72	36	ug/Kg	☼	05/02/17 14:40	05/16/17 07:55	50
Chloroform	<27 *		140	27	ug/Kg	☼	05/02/17 14:40	05/16/17 07:55	50
Chloromethane	<23		72	23	ug/Kg	☼	05/02/17 14:40	05/16/17 07:55	50
cis-1,2-Dichloroethene	<29 *		72	29	ug/Kg	☼	05/02/17 14:40	05/16/17 07:55	50
cis-1,3-Dichloropropene	<30		72	30	ug/Kg	☼	05/02/17 14:40	05/16/17 07:55	50
Dibromochloromethane	<35		72	35	ug/Kg	☼	05/02/17 14:40	05/16/17 07:55	50
Dibromomethane	<19		72	19	ug/Kg	☼	05/02/17 14:40	05/16/17 07:55	50
Dichlorodifluoromethane	<48		140	48	ug/Kg	☼	05/02/17 14:40	05/16/17 07:55	50
Ethylbenzene	<13		18	13	ug/Kg	☼	05/02/17 14:40	05/16/17 07:55	50
Hexachlorobutadiene	<32		72	32	ug/Kg	☼	05/02/17 14:40	05/16/17 07:55	50
Isopropyl ether	<20		72	20	ug/Kg	☼	05/02/17 14:40	05/16/17 07:55	50
Isopropylbenzene	120		72	28	ug/Kg	☼	05/02/17 14:40	05/16/17 07:55	50
Methyl tert-butyl ether	<28 *		72	28	ug/Kg	☼	05/02/17 14:40	05/16/17 07:55	50
Methylene Chloride	<120 *		360	120	ug/Kg	☼	05/02/17 14:40	05/16/17 07:55	50
Naphthalene	150 *		72	24	ug/Kg	☼	05/02/17 14:40	05/16/17 07:55	50
n-Butylbenzene	<28		72	28	ug/Kg	☼	05/02/17 14:40	05/16/17 07:55	50
N-Propylbenzene	620		72	30	ug/Kg	☼	05/02/17 14:40	05/16/17 07:55	50
p-Isopropyltoluene	<26		72	26	ug/Kg	☼	05/02/17 14:40	05/16/17 07:55	50

TestAmerica Chicago

Client Sample Results

Client: TRC Environmental Corporation.
Project/Site: STH 11 Kentucky to Kearney - 275788

TestAmerica Job ID: 500-127508-1

Client Sample ID: GP-25 (6-8)

Lab Sample ID: 500-127508-29

Date Collected: 05/02/17 14:40

Matrix: Solid

Date Received: 05/03/17 09:00

Percent Solids: 81.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	<29		72	29	ug/Kg	☼	05/02/17 14:40	05/16/17 07:55	50
Styrene	<28	*	72	28	ug/Kg	☼	05/02/17 14:40	05/16/17 07:55	50
tert-Butylbenzene	<29		72	29	ug/Kg	☼	05/02/17 14:40	05/16/17 07:55	50
Tetrachloroethene	<27		72	27	ug/Kg	☼	05/02/17 14:40	05/16/17 07:55	50
Toluene	<11		18	11	ug/Kg	☼	05/02/17 14:40	05/16/17 07:55	50
trans-1,2-Dichloroethene	<25	*	72	25	ug/Kg	☼	05/02/17 14:40	05/16/17 07:55	50
trans-1,3-Dichloropropene	<26		72	26	ug/Kg	☼	05/02/17 14:40	05/16/17 07:55	50
Trichloroethene	<12		36	12	ug/Kg	☼	05/02/17 14:40	05/16/17 07:55	50
Trichlorofluoromethane	<31	*	72	31	ug/Kg	☼	05/02/17 14:40	05/16/17 07:55	50
Vinyl chloride	<19	*	36	19	ug/Kg	☼	05/02/17 14:40	05/16/17 07:55	50
Xylenes, Total	<16		36	16	ug/Kg	☼	05/02/17 14:40	05/16/17 07:55	50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	103		75 - 126	05/02/17 14:40	05/16/17 07:55	50
4-Bromofluorobenzene (Surr)	103		72 - 124	05/02/17 14:40	05/16/17 07:55	50
Dibromofluoromethane	90		75 - 120	05/02/17 14:40	05/16/17 07:55	50
Toluene-d8 (Surr)	95		75 - 120	05/02/17 14:40	05/16/17 07:55	50

Method: WI-GRO - Wisconsin - Gasoline Range Organics (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
WI Gasoline Range Organics (C5-C10)	350000		43000	14000	ug/Kg	☼	05/02/17 14:40	05/07/17 22:05	1000

Method: WI-DRO - Wisconsin - Diesel Range Organics (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
WI Diesel Range Organics (C10-C28)	22		7.0	2.8	mg/Kg	☼	05/04/17 11:15	05/05/17 18:01	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
n-Nonane	86		44 - 148	05/04/17 11:15	05/05/17 18:01	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	26		0.55	0.26	mg/Kg	☼	05/06/17 11:07	05/10/17 19:03	1

Client Sample ID: Trip Blank

Lab Sample ID: 500-127508-30

Date Collected: 05/02/17 00:00

Matrix: Solid

Date Received: 05/03/17 09:00

Percent Solids: 100.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<23		50	23	ug/Kg	☼	05/02/17 00:00	05/16/17 01:22	50
1,1,1-Trichloroethane	<19		50	19	ug/Kg	☼	05/02/17 00:00	05/16/17 01:22	50
1,1,2,2-Tetrachloroethane	<20		50	20	ug/Kg	☼	05/02/17 00:00	05/16/17 01:22	50
1,1,2-Trichloroethane	<18		50	18	ug/Kg	☼	05/02/17 00:00	05/16/17 01:22	50
1,1-Dichloroethane	<21	*	50	21	ug/Kg	☼	05/02/17 00:00	05/16/17 01:22	50
1,1-Dichloroethene	<20	*	50	20	ug/Kg	☼	05/02/17 00:00	05/16/17 01:22	50
1,1-Dichloropropene	<15		50	15	ug/Kg	☼	05/02/17 00:00	05/16/17 01:22	50
1,2,3-Trichlorobenzene	<23		50	23	ug/Kg	☼	05/02/17 00:00	05/16/17 01:22	50
1,2,3-Trichloropropane	<21		50	21	ug/Kg	☼	05/02/17 00:00	05/16/17 01:22	50
1,2,4-Trichlorobenzene	<17		50	17	ug/Kg	☼	05/02/17 00:00	05/16/17 01:22	50

TestAmerica Chicago

Client Sample Results

Client: TRC Environmental Corporation.
Project/Site: STH 11 Kentucky to Kearney - 275788

TestAmerica Job ID: 500-127508-1

Client Sample ID: Trip Blank

Lab Sample ID: 500-127508-30

Date Collected: 05/02/17 00:00

Matrix: Solid

Date Received: 05/03/17 09:00

Percent Solids: 100.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trimethylbenzene	<18		50	18	ug/Kg	☼	05/02/17 00:00	05/16/17 01:22	50
1,2-Dibromo-3-Chloropropane	<100		250	100	ug/Kg	☼	05/02/17 00:00	05/16/17 01:22	50
1,2-Dibromoethane	<19		50	19	ug/Kg	☼	05/02/17 00:00	05/16/17 01:22	50
1,2-Dichlorobenzene	<17		50	17	ug/Kg	☼	05/02/17 00:00	05/16/17 01:22	50
1,2-Dichloroethane	<20		50	20	ug/Kg	☼	05/02/17 00:00	05/16/17 01:22	50
1,2-Dichloropropane	<21		50	21	ug/Kg	☼	05/02/17 00:00	05/16/17 01:22	50
1,3,5-Trimethylbenzene	<19		50	19	ug/Kg	☼	05/02/17 00:00	05/16/17 01:22	50
1,3-Dichlorobenzene	<20		50	20	ug/Kg	☼	05/02/17 00:00	05/16/17 01:22	50
1,3-Dichloropropane	<18		50	18	ug/Kg	☼	05/02/17 00:00	05/16/17 01:22	50
1,4-Dichlorobenzene	<18		50	18	ug/Kg	☼	05/02/17 00:00	05/16/17 01:22	50
2,2-Dichloropropane	<22		50	22	ug/Kg	☼	05/02/17 00:00	05/16/17 01:22	50
2-Chlorotoluene	<16		50	16	ug/Kg	☼	05/02/17 00:00	05/16/17 01:22	50
4-Chlorotoluene	<18		50	18	ug/Kg	☼	05/02/17 00:00	05/16/17 01:22	50
Benzene	<7.3		13	7.3	ug/Kg	☼	05/02/17 00:00	05/16/17 01:22	50
Bromobenzene	<18		50	18	ug/Kg	☼	05/02/17 00:00	05/16/17 01:22	50
Bromochloromethane	<21 *		50	21	ug/Kg	☼	05/02/17 00:00	05/16/17 01:22	50
Bromodichloromethane	<19		50	19	ug/Kg	☼	05/02/17 00:00	05/16/17 01:22	50
Bromoform	<24		50	24	ug/Kg	☼	05/02/17 00:00	05/16/17 01:22	50
Bromomethane	<40		100	40	ug/Kg	☼	05/02/17 00:00	05/16/17 01:22	50
Carbon tetrachloride	<19		50	19	ug/Kg	☼	05/02/17 00:00	05/16/17 01:22	50
Chlorobenzene	<19		50	19	ug/Kg	☼	05/02/17 00:00	05/16/17 01:22	50
Chloroethane	<25		50	25	ug/Kg	☼	05/02/17 00:00	05/16/17 01:22	50
Chloroform	<19 *		100	19	ug/Kg	☼	05/02/17 00:00	05/16/17 01:22	50
Chloromethane	<16		50	16	ug/Kg	☼	05/02/17 00:00	05/16/17 01:22	50
cis-1,2-Dichloroethene	<20 *		50	20	ug/Kg	☼	05/02/17 00:00	05/16/17 01:22	50
cis-1,3-Dichloropropene	<21		50	21	ug/Kg	☼	05/02/17 00:00	05/16/17 01:22	50
Dibromochloromethane	<24		50	24	ug/Kg	☼	05/02/17 00:00	05/16/17 01:22	50
Dibromomethane	<14		50	14	ug/Kg	☼	05/02/17 00:00	05/16/17 01:22	50
Dichlorodifluoromethane	<34		100	34	ug/Kg	☼	05/02/17 00:00	05/16/17 01:22	50
Ethylbenzene	<9.2		13	9.2	ug/Kg	☼	05/02/17 00:00	05/16/17 01:22	50
Hexachlorobutadiene	<22		50	22	ug/Kg	☼	05/02/17 00:00	05/16/17 01:22	50
Isopropyl ether	<14		50	14	ug/Kg	☼	05/02/17 00:00	05/16/17 01:22	50
Isopropylbenzene	<19		50	19	ug/Kg	☼	05/02/17 00:00	05/16/17 01:22	50
Methyl tert-butyl ether	<20 *		50	20	ug/Kg	☼	05/02/17 00:00	05/16/17 01:22	50
Methylene Chloride	<82 *		250	82	ug/Kg	☼	05/02/17 00:00	05/16/17 01:22	50
Naphthalene	<17 *		50	17	ug/Kg	☼	05/02/17 00:00	05/16/17 01:22	50
n-Butylbenzene	<19		50	19	ug/Kg	☼	05/02/17 00:00	05/16/17 01:22	50
N-Propylbenzene	<21		50	21	ug/Kg	☼	05/02/17 00:00	05/16/17 01:22	50
p-Isopropyltoluene	<18		50	18	ug/Kg	☼	05/02/17 00:00	05/16/17 01:22	50
sec-Butylbenzene	<20		50	20	ug/Kg	☼	05/02/17 00:00	05/16/17 01:22	50
Styrene	<19 *		50	19	ug/Kg	☼	05/02/17 00:00	05/16/17 01:22	50
tert-Butylbenzene	<20		50	20	ug/Kg	☼	05/02/17 00:00	05/16/17 01:22	50
Tetrachloroethene	<19		50	19	ug/Kg	☼	05/02/17 00:00	05/16/17 01:22	50
Toluene	<7.4		13	7.4	ug/Kg	☼	05/02/17 00:00	05/16/17 01:22	50
trans-1,2-Dichloroethene	<18 *		50	18	ug/Kg	☼	05/02/17 00:00	05/16/17 01:22	50
trans-1,3-Dichloropropene	<18		50	18	ug/Kg	☼	05/02/17 00:00	05/16/17 01:22	50
Trichloroethene	<8.2		25	8.2	ug/Kg	☼	05/02/17 00:00	05/16/17 01:22	50
Trichlorofluoromethane	<21 *		50	21	ug/Kg	☼	05/02/17 00:00	05/16/17 01:22	50
Vinyl chloride	<13 *		25	13	ug/Kg	☼	05/02/17 00:00	05/16/17 01:22	50

TestAmerica Chicago

Client Sample Results

Client: TRC Environmental Corporation.
 Project/Site: STH 11 Kentucky to Kearney - 275788

TestAmerica Job ID: 500-127508-1

Client Sample ID: Trip Blank

Lab Sample ID: 500-127508-30

Date Collected: 05/02/17 00:00

Matrix: Solid

Date Received: 05/03/17 09:00

Percent Solids: 100.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Xylenes, Total	<11		25	11	ug/Kg	☼	05/02/17 00:00	05/16/17 01:22	50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	102		75 - 126	05/02/17 00:00	05/16/17 01:22	50
4-Bromofluorobenzene (Surr)	103		72 - 124	05/02/17 00:00	05/16/17 01:22	50
Dibromofluoromethane	88		75 - 120	05/02/17 00:00	05/16/17 01:22	50
Toluene-d8 (Surr)	92		75 - 120	05/02/17 00:00	05/16/17 01:22	50



TestAmerica Laboratories, Inc.
 Attention: Sandie Fredrick
 2417 Bond St
 University Park, IL 44720

Date Received: 05/05/2017
Date Reported: 05/15/17 17:07
Client Project: Soil/Waste
Client Project ID: Soil/Waste
PO# 2669273
Project #: Soil/Waste

Certificate of Analysis

This analytical test report shall not be reproduced, except in full, without written permission from Eurofins S-F Analytical Laboratories. All quality control samples and checks were within acceptance limits unless otherwise indicated. Test results pertain only to those items tested. All samples were in good condition when received by the laboratory unless otherwise noted. All LOD/LOQs are adjusted to reflect dilutions.

DNR #	Analyte	Result Wet Wt.	LOD Wet Wt.	Result Dry Wt.	LOD Dry Wt.	LOQ Dry Wt.	Units	Dilution Factor	Date Prepared	Date Analyzed	Method	Notes
1705124-01		GP-23 (6-8) (500-127508-25)			Date Collected: 05/02/2017							
		Preparation: SW-846 5050 1994			Prepared By: P84Z		Analyzed By: P84Z					
	Chlorine as Cl	0.008	0.002	0.010	0.002	0.006	% Wt.	1	5/15/17	05/15/17	ASTM D808	
	Solids			Result: 86.84			% Wt.		Analyzed By: YT09	5/8/17	05/09/17	SM2540G 1997

This report was prepared and printed by:



Josh Rhein, Chemistry Operations Manager

Page 1 of 1



Definitions/Glossary

Client: TRC Environmental Corporation.
Project/Site: STH 11 Kentucky to Kearney - 275788

TestAmerica Job ID: 500-127508-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*	LCS or LCSD is outside acceptance limits.

GC 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
F1	MS and/or MSD Recovery is outside acceptance limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
V	Serial Dilution exceeds the control limits

General Chemistry

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	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
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 (Radiochemistry)
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: STH 11 Kentucky to Kearney - 275788

TestAmerica Job ID: 500-127508-1

GC/MS VOA

Prep Batch: 384046

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-127508-3	GP-13 (2-4)	Total/NA	Solid	5035	
500-127508-4	GP-13 (6-8)	Total/NA	Solid	5035	
500-127508-5	GP-14 (2-4)	Total/NA	Solid	5035	
500-127508-6	GP-14 (6-8)	Total/NA	Solid	5035	
500-127508-26	GP-24 (2-4)	Total/NA	Solid	5035	
500-127508-27	GP-24 (6-8)	Total/NA	Solid	5035	
500-127508-28	GP-25 (2-4)	Total/NA	Solid	5035	
500-127508-29	GP-25 (6-8)	Total/NA	Solid	WI GRO	
500-127508-30	Trip Blank	Total/NA	Solid	5035	

Leach Batch: 384086

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-127508-25	GP-23 (6-8)	TCLP	Solid	1311	
LB 500-384086/1-A	Method Blank	TCLP	Solid	1311	

Analysis Batch: 384262

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-127508-25	GP-23 (6-8)	TCLP	Solid	8260B	384086
LB 500-384086/1-A	Method Blank	TCLP	Solid	8260B	384086
MB 500-384262/6	Method Blank	Total/NA	Solid	8260B	
LCS 500-384262/4	Lab Control Sample	Total/NA	Solid	8260B	

Analysis Batch: 385282

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-127508-3	GP-13 (2-4)	Total/NA	Solid	8260B	384046
500-127508-4	GP-13 (6-8)	Total/NA	Solid	8260B	384046
500-127508-5	GP-14 (2-4)	Total/NA	Solid	8260B	384046
500-127508-6	GP-14 (6-8)	Total/NA	Solid	8260B	384046
500-127508-26	GP-24 (2-4)	Total/NA	Solid	8260B	384046
500-127508-27	GP-24 (6-8)	Total/NA	Solid	8260B	384046
500-127508-28	GP-25 (2-4)	Total/NA	Solid	8260B	384046
500-127508-29	GP-25 (6-8)	Total/NA	Solid	8260B	384046
500-127508-30	Trip Blank	Total/NA	Solid	8260B	384046
MB 500-385282/6	Method Blank	Total/NA	Solid	8260B	
LCS 500-385282/4	Lab Control Sample	Total/NA	Solid	8260B	

GC/MS Semi VOA

Leach Batch: 383992

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-127508-25	GP-23 (6-8)	TCLP	Solid	1311	
LB 500-383992/1-B	Method Blank	TCLP	Solid	1311	

Prep Batch: 384171

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-127508-25	GP-23 (6-8)	TCLP	Solid	3510C	383992
LB 500-383992/1-B	Method Blank	TCLP	Solid	3510C	383992
MB 500-384171/1-A	Method Blank	Total/NA	Solid	3510C	
LCS 500-384171/2-A	Lab Control Sample	Total/NA	Solid	3510C	

TestAmerica Chicago

QC Association Summary

Client: TRC Environmental Corporation.
Project/Site: STH 11 Kentucky to Kearney - 275788

TestAmerica Job ID: 500-127508-1

GC/MS Semi VOA (Continued)

Analysis Batch: 384241

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-127508-25	GP-23 (6-8)	TCLP	Solid	8270D	384171
LB 500-383992/1-B	Method Blank	TCLP	Solid	8270D	384171
MB 500-384171/1-A	Method Blank	Total/NA	Solid	8270D	384171
LCS 500-384171/2-A	Lab Control Sample	Total/NA	Solid	8270D	384171

GC VOA

Prep Batch: 384046

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-127508-29	GP-25 (6-8)	Total/NA	Solid	WI GRO	
LB3 500-384046/21-A	Method Blank	Total/NA	Solid	5035	
LCS 500-384046/23-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 500-384046/24-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Analysis Batch: 384093

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-127508-29	GP-25 (6-8)	Total/NA	Solid	WI-GRO	384046
LB3 500-384046/21-A	Method Blank	Total/NA	Solid	WI-GRO	384046
LCS 500-384046/23-A	Lab Control Sample	Total/NA	Solid	WI-GRO	384046
LCSD 500-384046/24-A	Lab Control Sample Dup	Total/NA	Solid	WI-GRO	384046

Prep Batch: 427841

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-127508-1	GP-12 (2-4)	Total/NA	Solid	WI GRO	
500-127508-2	GP-12 (6-8)	Total/NA	Solid	WI GRO	
500-127508-7	GP-15 (2-4)	Total/NA	Solid	WI GRO	
500-127508-8	GP-15 (6-8)	Total/NA	Solid	WI GRO	
500-127508-9	GP-16 (2-4)	Total/NA	Solid	WI GRO	
500-127508-10	GP-16 (6-8)	Total/NA	Solid	WI GRO	
500-127508-11	GP-17 (2-4)	Total/NA	Solid	WI GRO	
500-127508-12	GP-17 (6-8)	Total/NA	Solid	WI GRO	
500-127508-13	GP-18 (2-4)	Total/NA	Solid	WI GRO	
500-127508-14	GP-18 (6-8)	Total/NA	Solid	WI GRO	
500-127508-15	GP-19 (2-4)	Total/NA	Solid	WI GRO	
500-127508-16	GP-19 (6-8)	Total/NA	Solid	WI GRO	
500-127508-17	GP-20 (2-4)	Total/NA	Solid	WI GRO	
500-127508-18	GP-20 (6-8)	Total/NA	Solid	WI GRO	
500-127508-19	GP-20 (14-16)	Total/NA	Solid	WI GRO	
500-127508-20	GP-21 (2-4)	Total/NA	Solid	WI GRO	
500-127508-21	GP-21 (6-8)	Total/NA	Solid	WI GRO	
500-127508-22	GP-22 (2-4)	Total/NA	Solid	WI GRO	
500-127508-23	GP-22 (6-8)	Total/NA	Solid	WI GRO	
500-127508-24	GP-23 (2-4)	Total/NA	Solid	WI GRO	
500-127508-25	GP-23 (6-8)	Total/NA	Solid	WI GRO	
MB 490-427841/43-A	Method Blank	Total/NA	Solid	WI GRO	
LCS 490-427841/44-A	Lab Control Sample	Total/NA	Solid	WI GRO	
LCSD 490-427841/45-A	Lab Control Sample Dup	Total/NA	Solid	WI GRO	

TestAmerica Chicago

QC Association Summary

Client: TRC Environmental Corporation.
Project/Site: STH 11 Kentucky to Kearney - 275788

TestAmerica Job ID: 500-127508-1

GC VOA (Continued)

Analysis Batch: 428992

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-127508-1	GP-12 (2-4)	Total/NA	Solid	WDNR	427841
500-127508-2	GP-12 (6-8)	Total/NA	Solid	WDNR	427841
500-127508-7	GP-15 (2-4)	Total/NA	Solid	WDNR	427841
500-127508-8	GP-15 (6-8)	Total/NA	Solid	WDNR	427841
500-127508-9	GP-16 (2-4)	Total/NA	Solid	WDNR	427841
500-127508-10	GP-16 (6-8)	Total/NA	Solid	WDNR	427841
500-127508-11	GP-17 (2-4)	Total/NA	Solid	WDNR	427841
500-127508-12	GP-17 (6-8)	Total/NA	Solid	WDNR	427841
500-127508-13	GP-18 (2-4)	Total/NA	Solid	WDNR	427841
500-127508-14	GP-18 (6-8)	Total/NA	Solid	WDNR	427841
500-127508-15	GP-19 (2-4)	Total/NA	Solid	WDNR	427841
500-127508-16	GP-19 (6-8)	Total/NA	Solid	WDNR	427841
500-127508-17	GP-20 (2-4)	Total/NA	Solid	WDNR	427841
500-127508-18	GP-20 (6-8)	Total/NA	Solid	WDNR	427841
500-127508-19	GP-20 (14-16)	Total/NA	Solid	WDNR	427841
500-127508-20	GP-21 (2-4)	Total/NA	Solid	WDNR	427841
500-127508-21	GP-21 (6-8)	Total/NA	Solid	WDNR	427841
500-127508-21	GP-21 (6-8)	Total/NA	Solid	WDNR	427841
500-127508-22	GP-22 (2-4)	Total/NA	Solid	WDNR	427841
500-127508-22	GP-22 (2-4)	Total/NA	Solid	WDNR	427841
500-127508-23	GP-22 (6-8)	Total/NA	Solid	WDNR	427841
500-127508-24	GP-23 (2-4)	Total/NA	Solid	WDNR	427841
500-127508-25	GP-23 (6-8)	Total/NA	Solid	WDNR	427841
MB 490-427841/43-A	Method Blank	Total/NA	Solid	WDNR	427841
MB 490-427841/43-A	Method Blank	Total/NA	Solid	WDNR	427841
LCS 490-427841/44-A	Lab Control Sample	Total/NA	Solid	WDNR	427841
LCS 490-427841/44-A	Lab Control Sample	Total/NA	Solid	WDNR	427841
LCSD 490-427841/45-A	Lab Control Sample Dup	Total/NA	Solid	WDNR	427841
LCSD 490-427841/45-A	Lab Control Sample Dup	Total/NA	Solid	WDNR	427841

GC Semi VOA

Prep Batch: 383737

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-127508-25	GP-23 (6-8)	Total/NA	Solid	WI DRO PREP	
500-127508-29	GP-25 (6-8)	Total/NA	Solid	WI DRO PREP	
MB 500-383737/1-A	Method Blank	Total/NA	Solid	WI DRO PREP	
LCS 500-383737/2-A	Lab Control Sample	Total/NA	Solid	WI DRO PREP	
LCSD 500-383737/3-A	Lab Control Sample Dup	Total/NA	Solid	WI DRO PREP	

Analysis Batch: 383957

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-127508-25	GP-23 (6-8)	Total/NA	Solid	WI-DRO	383737
500-127508-29	GP-25 (6-8)	Total/NA	Solid	WI-DRO	383737
MB 500-383737/1-A	Method Blank	Total/NA	Solid	WI-DRO	383737
LCS 500-383737/2-A	Lab Control Sample	Total/NA	Solid	WI-DRO	383737
LCSD 500-383737/3-A	Lab Control Sample Dup	Total/NA	Solid	WI-DRO	383737

TestAmerica Chicago

QC Association Summary

Client: TRC Environmental Corporation.
Project/Site: STH 11 Kentucky to Kearney - 275788

TestAmerica Job ID: 500-127508-1

GC Semi VOA (Continued)

Prep Batch: 384456

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-127508-25	GP-23 (6-8)	Total/NA	Solid	3541	
MB 500-384456/1-A	Method Blank	Total/NA	Solid	3541	
LCS 500-384456/2-A	Lab Control Sample	Total/NA	Solid	3541	

Analysis Batch: 384545

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-127508-25	GP-23 (6-8)	Total/NA	Solid	8082A	384456
MB 500-384456/1-A	Method Blank	Total/NA	Solid	8082A	384456
LCS 500-384456/2-A	Lab Control Sample	Total/NA	Solid	8082A	384456

Metals

Leach Batch: 383992

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-127508-25	GP-23 (6-8)	TCLP	Solid	1311	
LB 500-383992/1-C	Method Blank	TCLP	Solid	1311	
LB 500-383992/1-D	Method Blank	TCLP	Solid	1311	

Prep Batch: 384019

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-127508-1	GP-12 (2-4)	Total/NA	Solid	3050B	
500-127508-2	GP-12 (6-8)	Total/NA	Solid	3050B	
500-127508-3	GP-13 (2-4)	Total/NA	Solid	3050B	
500-127508-4	GP-13 (6-8)	Total/NA	Solid	3050B	
500-127508-5	GP-14 (2-4)	Total/NA	Solid	3050B	
500-127508-6	GP-14 (6-8)	Total/NA	Solid	3050B	
500-127508-7	GP-15 (2-4)	Total/NA	Solid	3050B	
500-127508-8	GP-15 (6-8)	Total/NA	Solid	3050B	
500-127508-9	GP-16 (2-4)	Total/NA	Solid	3050B	
500-127508-10	GP-16 (6-8)	Total/NA	Solid	3050B	
500-127508-11	GP-17 (2-4)	Total/NA	Solid	3050B	
500-127508-12	GP-17 (6-8)	Total/NA	Solid	3050B	
500-127508-13	GP-18 (2-4)	Total/NA	Solid	3050B	
500-127508-14	GP-18 (6-8)	Total/NA	Solid	3050B	
500-127508-15	GP-19 (2-4)	Total/NA	Solid	3050B	
500-127508-16	GP-19 (6-8)	Total/NA	Solid	3050B	
500-127508-22	GP-22 (2-4)	Total/NA	Solid	3050B	
500-127508-23	GP-22 (6-8)	Total/NA	Solid	3050B	
500-127508-24	GP-23 (2-4)	Total/NA	Solid	3050B	
500-127508-25	GP-23 (6-8)	Total/NA	Solid	3050B	
MB 500-384019/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 500-384019/2-A	Lab Control Sample	Total/NA	Solid	3050B	
500-127508-1 MS	GP-12 (2-4)	Total/NA	Solid	3050B	
500-127508-1 MSD	GP-12 (2-4)	Total/NA	Solid	3050B	
500-127508-1 DU	GP-12 (2-4)	Total/NA	Solid	3050B	

Prep Batch: 384021

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-127508-26	GP-24 (2-4)	Total/NA	Solid	3050B	
500-127508-27	GP-24 (6-8)	Total/NA	Solid	3050B	

TestAmerica Chicago

QC Association Summary

Client: TRC Environmental Corporation.
Project/Site: STH 11 Kentucky to Kearney - 275788

TestAmerica Job ID: 500-127508-1

Metals (Continued)

Prep Batch: 384021 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-127508-28	GP-25 (2-4)	Total/NA	Solid	3050B	
500-127508-29	GP-25 (6-8)	Total/NA	Solid	3050B	
MB 500-384021/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 500-384021/2-A	Lab Control Sample	Total/NA	Solid	3050B	
500-127508-26 MS	GP-24 (2-4)	Total/NA	Solid	3050B	
500-127508-26 MSD	GP-24 (2-4)	Total/NA	Solid	3050B	
500-127508-26 DU	GP-24 (2-4)	Total/NA	Solid	3050B	

Prep Batch: 384187

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-127508-25	GP-23 (6-8)	TCLP	Solid	3010A	383992
LB 500-383992/1-C	Method Blank	TCLP	Solid	3010A	383992
LCS 500-384187/2-A	Lab Control Sample	Total/NA	Solid	3010A	

Prep Batch: 384260

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-127508-25	GP-23 (6-8)	TCLP	Solid	7470A	383992
LB 500-383992/1-D	Method Blank	TCLP	Solid	7470A	383992
MB 500-384260/12-A	Method Blank	Total/NA	Solid	7470A	
LCS 500-384260/13-A	Lab Control Sample	Total/NA	Solid	7470A	

Analysis Batch: 384328

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-127508-25	GP-23 (6-8)	TCLP	Solid	6010B	384187
LB 500-383992/1-C	Method Blank	TCLP	Solid	6010B	384187
LCS 500-384187/2-A	Lab Control Sample	Total/NA	Solid	6010B	384187

Analysis Batch: 384394

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-127508-25	GP-23 (6-8)	TCLP	Solid	7470A	384260
LB 500-383992/1-D	Method Blank	TCLP	Solid	7470A	384260
MB 500-384260/12-A	Method Blank	Total/NA	Solid	7470A	384260
LCS 500-384260/13-A	Lab Control Sample	Total/NA	Solid	7470A	384260

Analysis Batch: 384719

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-127508-26	GP-24 (2-4)	Total/NA	Solid	6010B	384021
500-127508-27	GP-24 (6-8)	Total/NA	Solid	6010B	384021
500-127508-28	GP-25 (2-4)	Total/NA	Solid	6010B	384021
500-127508-29	GP-25 (6-8)	Total/NA	Solid	6010B	384021
MB 500-384021/1-A	Method Blank	Total/NA	Solid	6010B	384021
LCS 500-384021/2-A	Lab Control Sample	Total/NA	Solid	6010B	384021
500-127508-26 MS	GP-24 (2-4)	Total/NA	Solid	6010B	384021
500-127508-26 MSD	GP-24 (2-4)	Total/NA	Solid	6010B	384021
500-127508-26 DU	GP-24 (2-4)	Total/NA	Solid	6010B	384021

Analysis Batch: 384724

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-127508-1	GP-12 (2-4)	Total/NA	Solid	6010B	384019
500-127508-2	GP-12 (6-8)	Total/NA	Solid	6010B	384019
500-127508-3	GP-13 (2-4)	Total/NA	Solid	6010B	384019

TestAmerica Chicago

QC Association Summary

Client: TRC Environmental Corporation.
Project/Site: STH 11 Kentucky to Kearney - 275788

TestAmerica Job ID: 500-127508-1

Metals (Continued)

Analysis Batch: 384724 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-127508-4	GP-13 (6-8)	Total/NA	Solid	6010B	384019
500-127508-5	GP-14 (2-4)	Total/NA	Solid	6010B	384019
500-127508-6	GP-14 (6-8)	Total/NA	Solid	6010B	384019
500-127508-7	GP-15 (2-4)	Total/NA	Solid	6010B	384019
500-127508-8	GP-15 (6-8)	Total/NA	Solid	6010B	384019
500-127508-9	GP-16 (2-4)	Total/NA	Solid	6010B	384019
500-127508-10	GP-16 (6-8)	Total/NA	Solid	6010B	384019
500-127508-11	GP-17 (2-4)	Total/NA	Solid	6010B	384019
500-127508-13	GP-18 (2-4)	Total/NA	Solid	6010B	384019
500-127508-14	GP-18 (6-8)	Total/NA	Solid	6010B	384019
500-127508-15	GP-19 (2-4)	Total/NA	Solid	6010B	384019
500-127508-16	GP-19 (6-8)	Total/NA	Solid	6010B	384019
500-127508-22	GP-22 (2-4)	Total/NA	Solid	6010B	384019
500-127508-23	GP-22 (6-8)	Total/NA	Solid	6010B	384019
500-127508-24	GP-23 (2-4)	Total/NA	Solid	6010B	384019
500-127508-25	GP-23 (6-8)	Total/NA	Solid	6010B	384019
MB 500-384019/1-A	Method Blank	Total/NA	Solid	6010B	384019
LCS 500-384019/2-A	Lab Control Sample	Total/NA	Solid	6010B	384019
500-127508-1 MS	GP-12 (2-4)	Total/NA	Solid	6010B	384019
500-127508-1 MSD	GP-12 (2-4)	Total/NA	Solid	6010B	384019
500-127508-1 DU	GP-12 (2-4)	Total/NA	Solid	6010B	384019

Analysis Batch: 384827

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-127508-12	GP-17 (6-8)	Total/NA	Solid	6010B	384019

General Chemistry

Analysis Batch: 383751

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-127508-3	GP-13 (2-4)	Total/NA	Solid	Moisture	
500-127508-4	GP-13 (6-8)	Total/NA	Solid	Moisture	
500-127508-5	GP-14 (2-4)	Total/NA	Solid	Moisture	
500-127508-6	GP-14 (6-8)	Total/NA	Solid	Moisture	
500-127508-25	GP-23 (6-8)	Total/NA	Solid	Moisture	
500-127508-26	GP-24 (2-4)	Total/NA	Solid	Moisture	
500-127508-27	GP-24 (6-8)	Total/NA	Solid	Moisture	
500-127508-28	GP-25 (2-4)	Total/NA	Solid	Moisture	
500-127508-29	GP-25 (6-8)	Total/NA	Solid	Moisture	
500-127508-30	Trip Blank	Total/NA	Solid	Moisture	

Analysis Batch: 384553

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-127508-25	GP-23 (6-8)	Total/NA	Solid	9045C	

Analysis Batch: 384965

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-127508-22	GP-22 (2-4)	Total/NA	Solid	Moisture	

TestAmerica Chicago

QC Association Summary

Client: TRC Environmental Corporation.
Project/Site: STH 11 Kentucky to Kearney - 275788

TestAmerica Job ID: 500-127508-1

General Chemistry (Continued)

Analysis Batch: 385047

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-127508-25	GP-23 (6-8)	Total/NA	Solid	SM 2710F	

Prep Batch: 385217

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-127508-25	GP-23 (6-8)	Total/NA	Solid	9010B	
MB 500-385217/1-A	Method Blank	Total/NA	Solid	9010B	
LCS 500-385217/2-A	Lab Control Sample	Total/NA	Solid	9010B	

Prep Batch: 385245

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-127508-25	GP-23 (6-8)	Total/NA	Solid	9030B	
MB 500-385245/1-A	Method Blank	Total/NA	Solid	9030B	
LCS 500-385245/2-A	Lab Control Sample	Total/NA	Solid	9030B	

Analysis Batch: 385286

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-127508-25	GP-23 (6-8)	Total/NA	Solid	9095A	

Analysis Batch: 385288

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-127508-25	GP-23 (6-8)	Total/NA	Solid	1010	

Analysis Batch: 385342

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-127508-25	GP-23 (6-8)	Total/NA	Solid	9014	385217
MB 500-385217/1-A	Method Blank	Total/NA	Solid	9014	385217
LCS 500-385217/2-A	Lab Control Sample	Total/NA	Solid	9014	385217

Analysis Batch: 385402

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-127508-25	GP-23 (6-8)	Total/NA	Solid	9034	385245
MB 500-385245/1-A	Method Blank	Total/NA	Solid	9034	385245
LCS 500-385245/2-A	Lab Control Sample	Total/NA	Solid	9034	385245

Analysis Batch: 427540

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-127508-1	GP-12 (2-4)	Total/NA	Solid	Moisture	
500-127508-2	GP-12 (6-8)	Total/NA	Solid	Moisture	
500-127508-7	GP-15 (2-4)	Total/NA	Solid	Moisture	
500-127508-8	GP-15 (6-8)	Total/NA	Solid	Moisture	
500-127508-9	GP-16 (2-4)	Total/NA	Solid	Moisture	
500-127508-10	GP-16 (6-8)	Total/NA	Solid	Moisture	
500-127508-11	GP-17 (2-4)	Total/NA	Solid	Moisture	
500-127508-12	GP-17 (6-8)	Total/NA	Solid	Moisture	
500-127508-13	GP-18 (2-4)	Total/NA	Solid	Moisture	
500-127508-14	GP-18 (6-8)	Total/NA	Solid	Moisture	
500-127508-15	GP-19 (2-4)	Total/NA	Solid	Moisture	
500-127508-16	GP-19 (6-8)	Total/NA	Solid	Moisture	
500-127508-17	GP-20 (2-4)	Total/NA	Solid	Moisture	
500-127508-18	GP-20 (6-8)	Total/NA	Solid	Moisture	
500-127508-19	GP-20 (14-16)	Total/NA	Solid	Moisture	

TestAmerica Chicago

QC Association Summary

Client: TRC Environmental Corporation.
Project/Site: STH 11 Kentucky to Kearney - 275788

TestAmerica Job ID: 500-127508-1

General Chemistry (Continued)

Analysis Batch: 427540 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-127508-20	GP-21 (2-4)	Total/NA	Solid	Moisture	
500-127508-21	GP-21 (6-8)	Total/NA	Solid	Moisture	
500-127508-23	GP-22 (6-8)	Total/NA	Solid	Moisture	
500-127508-24	GP-23 (2-4)	Total/NA	Solid	Moisture	
500-127508-25	GP-23 (6-8)	Total/NA	Solid	Moisture	

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15
- 16

Surrogate Summary

Client: TRC Environmental Corporation.
Project/Site: STH 11 Kentucky to Kearney - 275788

TestAmerica Job ID: 500-127508-1

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 (75-126)	BFB (72-124)	DBFM (75-120)	TOL (75-120)
500-127508-3	GP-13 (2-4)	102	106	89	92
500-127508-4	GP-13 (6-8)	100	108	89	93
500-127508-5	GP-14 (2-4)	103	105	88	94
500-127508-6	GP-14 (6-8)	103	106	89	93
500-127508-26	GP-24 (2-4)	103	107	88	93
500-127508-27	GP-24 (6-8)	105	106	90	93
500-127508-28	GP-25 (2-4)	100	106	88	92
500-127508-29	GP-25 (6-8)	103	103	90	95
500-127508-30	Trip Blank	102	103	88	92
LCS 500-384262/4	Lab Control Sample	103	109	93	102
LCS 500-385282/4	Lab Control Sample	97	100	90	91
MB 500-384262/6	Method Blank	105	114	89	100
MB 500-385282/6	Method Blank	98	107	89	92

Surrogate Legend

12DCE = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane
TOL = Toluene-d8 (Surr)

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

Matrix: Solid

Prep Type: TCLP

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		12DCE (75-126)	BFB (72-124)	DBFM (75-120)	TOL (75-120)
500-127508-25	GP-23 (6-8)	100	109	84	103
LB 500-384086/1-A	Method Blank	104	110	89	97

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)					
		TBP (40-145)	FBP (34-110)	2FP (27-110)	NBZ (36-120)	PHL (20-100)	TPH (40-145)
LCS 500-384171/2-A	Lab Control Sample	98	87	61	92	44	103
MB 500-384171/1-A	Method Blank	90	90	65	97	43	107

Surrogate Legend

TBP = 2,4,6-Tribromophenol (Surr)
FBP = 2-Fluorobiphenyl
2FP = 2-Fluorophenol (Surr)
NBZ = Nitrobenzene-d5 (Surr)
PHL = Phenol-d5 (Surr)

TestAmerica Chicago

Surrogate Summary

Client: TRC Environmental Corporation.
 Project/Site: STH 11 Kentucky to Kearney - 275788

TestAmerica Job ID: 500-127508-1

TPH = Terphenyl-d14 (Surr)

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

Matrix: Solid

Prep Type: TCLP

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)					
		TBP (40-145)	FBP (34-110)	2FP (27-110)	NBZ (36-120)	PHL (20-100)	TPH (40-145)
500-127508-25	GP-23 (6-8)	91	90	62	99	43	108
LB 500-383992/1-B	Method Blank	90	84	56	94	39	104

Surrogate Legend

TBP = 2,4,6-Tribromophenol (Surr)
 FBP = 2-Fluorobiphenyl
 2FP = 2-Fluorophenol (Surr)
 NBZ = Nitrobenzene-d5 (Surr)
 PHL = Phenol-d5 (Surr)
 TPH = Terphenyl-d14 (Surr)

Method: WDNR - Wisconsin - Gasoline Range Organics (GC)

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)	
		TFT (80-120)	TFT (80-120)
500-127508-1	GP-12 (2-4)	91	91
500-127508-2	GP-12 (6-8)	91	91
500-127508-7	GP-15 (2-4)	90	90
500-127508-8	GP-15 (6-8)	89	89
500-127508-9	GP-16 (2-4)	91	91
500-127508-10	GP-16 (6-8)	91	91
500-127508-11	GP-17 (2-4)	91	91
500-127508-12	GP-17 (6-8)	90	90
500-127508-13	GP-18 (2-4)	91	91
500-127508-14	GP-18 (6-8)	91	91
500-127508-15	GP-19 (2-4)	89	89
500-127508-16	GP-19 (6-8)	90	90
500-127508-17	GP-20 (2-4)	90	90
500-127508-18	GP-20 (6-8)	88	88
500-127508-19	GP-20 (14-16)	86	86
500-127508-20	GP-21 (2-4)	98	98
500-127508-21	GP-21 (6-8)	125 X	125 X
500-127508-21	GP-21 (6-8)	173 X	173 X
500-127508-22	GP-22 (2-4)	81	81
500-127508-22	GP-22 (2-4)	89	89
500-127508-23	GP-22 (6-8)	88	88
500-127508-24	GP-23 (2-4)	87	87
500-127508-25	GP-23 (6-8)	87	87
LCS 490-427841/44-A	Lab Control Sample	95	95
LCS 490-427841/44-A	Lab Control Sample	93	93
LCSD 490-427841/45-A	Lab Control Sample Dup	95	95
LCSD 490-427841/45-A	Lab Control Sample Dup	91	91
MB 490-427841/43-A	Method Blank	86	86
MB 490-427841/43-A	Method Blank	89	89

Surrogate Legend

TestAmerica Chicago

Surrogate Summary

Client: TRC Environmental Corporation.
Project/Site: STH 11 Kentucky to Kearney - 275788

TestAmerica Job ID: 500-127508-1

TFT = a,a,a-Trifluorotoluene

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

Matrix: Solid

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	TCX1 (49-129)	DCB1 (37-121)
500-127508-25	GP-23 (6-8)	67	71
LCS 500-384456/2-A	Lab Control Sample	76	63
MB 500-384456/1-A	Method Blank	76	70

Surrogate Legend

TCX = Tetrachloro-m-xylene

DCB = DCB Decachlorobiphenyl

Method: WI-DRO - Wisconsin - Diesel Range Organics (GC)

Matrix: Solid

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	C9 (44-148)
500-127508-25	GP-23 (6-8)	76
500-127508-29	GP-25 (6-8)	86
LCS 500-383737/2-A	Lab Control Sample	77
LCSD 500-383737/3-A	Lab Control Sample Dup	71
MB 500-383737/1-A	Method Blank	83

Surrogate Legend

C9 = n-Nonane

QC Sample Results

Client: TRC Environmental Corporation.
Project/Site: STH 11 Kentucky to Kearney - 275788

TestAmerica Job ID: 500-127508-1

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

Lab Sample ID: MB 500-384262/6

Matrix: Solid

Analysis Batch: 384262

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	<0.00050		0.0010	0.00050	mg/L			05/08/17 22:32	1
Methyl Ethyl Ketone	<0.0025		0.0050	0.0025	mg/L			05/08/17 22:32	1
1,2-Dichloroethane	<0.00050		0.0010	0.00050	mg/L			05/08/17 22:32	1
Benzene	<0.00050		0.0010	0.00050	mg/L			05/08/17 22:32	1
Carbon tetrachloride	<0.00050		0.0010	0.00050	mg/L			05/08/17 22:32	1
Chlorobenzene	<0.00050		0.0010	0.00050	mg/L			05/08/17 22:32	1
Chloroform	<0.0010		0.0020	0.0010	mg/L			05/08/17 22:32	1
Tetrachloroethene	<0.00050		0.0010	0.00050	mg/L			05/08/17 22:32	1
Trichloroethene	<0.00050		0.0010	0.00050	mg/L			05/08/17 22:32	1
Vinyl chloride	<0.00050		0.0010	0.00050	mg/L			05/08/17 22:32	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	105		75 - 126		05/08/17 22:32	1
4-Bromofluorobenzene (Surr)	114		72 - 124		05/08/17 22:32	1
Dibromofluoromethane	89		75 - 120		05/08/17 22:32	1
Toluene-d8 (Surr)	100		75 - 120		05/08/17 22:32	1

Lab Sample ID: LCS 500-384262/4

Matrix: Solid

Analysis Batch: 384262

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1-Dichloroethene	0.0500	0.0449		mg/L		90	67 - 122
Methyl Ethyl Ketone	0.0500	0.0524		mg/L		105	53 - 141
1,2-Dichloroethane	0.0500	0.0504		mg/L		101	68 - 127
Benzene	0.0500	0.0479		mg/L		96	70 - 120
Carbon tetrachloride	0.0500	0.0453		mg/L		91	65 - 122
Chlorobenzene	0.0500	0.0500		mg/L		100	70 - 120
Chloroform	0.0500	0.0455		mg/L		91	70 - 120
Tetrachloroethene	0.0500	0.0518		mg/L		104	70 - 128
Trichloroethene	0.0500	0.0488		mg/L		98	70 - 125
Vinyl chloride	0.0500	0.0415		mg/L		83	64 - 126

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	103		75 - 126
4-Bromofluorobenzene (Surr)	109		72 - 124
Dibromofluoromethane	93		75 - 120
Toluene-d8 (Surr)	102		75 - 120

Lab Sample ID: MB 500-385282/6

Matrix: Solid

Analysis Batch: 385282

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	<0.46		1.0	0.46	ug/Kg			05/16/17 00:56	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/Kg			05/16/17 00:56	1
1,1,1,2-Tetrachloroethane	<0.40		1.0	0.40	ug/Kg			05/16/17 00:56	1

TestAmerica Chicago

QC Sample Results

Client: TRC Environmental Corporation.
 Project/Site: STH 11 Kentucky to Kearney - 275788

TestAmerica Job ID: 500-127508-1

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

Lab Sample ID: MB 500-385282/6
Matrix: Solid
Analysis Batch: 385282

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/Kg			05/16/17 00:56	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/Kg			05/16/17 00:56	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/Kg			05/16/17 00:56	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/Kg			05/16/17 00:56	1
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/Kg			05/16/17 00:56	1
1,2,3-Trichloropropane	<0.41		1.0	0.41	ug/Kg			05/16/17 00:56	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/Kg			05/16/17 00:56	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/Kg			05/16/17 00:56	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/Kg			05/16/17 00:56	1
1,2-Dibromoethane	<0.39		1.0	0.39	ug/Kg			05/16/17 00:56	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/Kg			05/16/17 00:56	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/Kg			05/16/17 00:56	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/Kg			05/16/17 00:56	1
1,3,5-Trimethylbenzene	<0.38		1.0	0.38	ug/Kg			05/16/17 00:56	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/Kg			05/16/17 00:56	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/Kg			05/16/17 00:56	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/Kg			05/16/17 00:56	1
2,2-Dichloropropane	<0.44		1.0	0.44	ug/Kg			05/16/17 00:56	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/Kg			05/16/17 00:56	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/Kg			05/16/17 00:56	1
Benzene	<0.15		0.25	0.15	ug/Kg			05/16/17 00:56	1
Bromobenzene	<0.36		1.0	0.36	ug/Kg			05/16/17 00:56	1
Bromochloromethane	<0.43		1.0	0.43	ug/Kg			05/16/17 00:56	1
Bromodichloromethane	<0.37		1.0	0.37	ug/Kg			05/16/17 00:56	1
Bromoform	<0.48		1.0	0.48	ug/Kg			05/16/17 00:56	1
Bromomethane	<0.80		2.0	0.80	ug/Kg			05/16/17 00:56	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/Kg			05/16/17 00:56	1
Chlorobenzene	<0.39		1.0	0.39	ug/Kg			05/16/17 00:56	1
Chloroethane	<0.50		1.0	0.50	ug/Kg			05/16/17 00:56	1
Chloroform	<0.37		2.0	0.37	ug/Kg			05/16/17 00:56	1
Chloromethane	<0.32		1.0	0.32	ug/Kg			05/16/17 00:56	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/Kg			05/16/17 00:56	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/Kg			05/16/17 00:56	1
Dibromochloromethane	<0.49		1.0	0.49	ug/Kg			05/16/17 00:56	1
Dibromomethane	<0.27		1.0	0.27	ug/Kg			05/16/17 00:56	1
Dichlorodifluoromethane	<0.67		2.0	0.67	ug/Kg			05/16/17 00:56	1
Ethylbenzene	<0.18		0.25	0.18	ug/Kg			05/16/17 00:56	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/Kg			05/16/17 00:56	1
Isopropyl ether	<0.28		1.0	0.28	ug/Kg			05/16/17 00:56	1
Isopropylbenzene	<0.38		1.0	0.38	ug/Kg			05/16/17 00:56	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/Kg			05/16/17 00:56	1
Methylene Chloride	<1.6		5.0	1.6	ug/Kg			05/16/17 00:56	1
Naphthalene	<0.33		1.0	0.33	ug/Kg			05/16/17 00:56	1
n-Butylbenzene	<0.39		1.0	0.39	ug/Kg			05/16/17 00:56	1
N-Propylbenzene	<0.41		1.0	0.41	ug/Kg			05/16/17 00:56	1
p-Isopropyltoluene	<0.36		1.0	0.36	ug/Kg			05/16/17 00:56	1
sec-Butylbenzene	<0.40		1.0	0.40	ug/Kg			05/16/17 00:56	1
Styrene	<0.39		1.0	0.39	ug/Kg			05/16/17 00:56	1

TestAmerica Chicago

QC Sample Results

Client: TRC Environmental Corporation.
 Project/Site: STH 11 Kentucky to Kearney - 275788

TestAmerica Job ID: 500-127508-1

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

Lab Sample ID: MB 500-385282/6
Matrix: Solid
Analysis Batch: 385282

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
tert-Butylbenzene	<0.40		1.0	0.40	ug/Kg			05/16/17 00:56	1
Tetrachloroethene	<0.37		1.0	0.37	ug/Kg			05/16/17 00:56	1
Toluene	<0.15		0.25	0.15	ug/Kg			05/16/17 00:56	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/Kg			05/16/17 00:56	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/Kg			05/16/17 00:56	1
Trichloroethene	<0.16		0.50	0.16	ug/Kg			05/16/17 00:56	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/Kg			05/16/17 00:56	1
Vinyl chloride	<0.26		0.50	0.26	ug/Kg			05/16/17 00:56	1
Xylenes, Total	<0.22		0.50	0.22	ug/Kg			05/16/17 00:56	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	98		75 - 126		05/16/17 00:56	1
4-Bromofluorobenzene (Surr)	107		72 - 124		05/16/17 00:56	1
Dibromofluoromethane	89		75 - 120		05/16/17 00:56	1
Toluene-d8 (Surr)	92		75 - 120		05/16/17 00:56	1

Lab Sample ID: LCS 500-385282/4
Matrix: Solid
Analysis Batch: 385282

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	50.8		ug/Kg		102	70 - 125
1,1,1-Trichloroethane	50.0	48.8		ug/Kg		98	70 - 125
1,1,1,2,2-Tetrachloroethane	50.0	47.9		ug/Kg		96	67 - 127
1,1,2-Trichloroethane	50.0	51.0		ug/Kg		102	70 - 122
1,1-Dichloroethane	50.0	58.6		ug/Kg		117	70 - 125
1,1-Dichloroethene	50.0	48.0		ug/Kg		96	67 - 122
1,1-Dichloropropene	50.0	51.2		ug/Kg		102	70 - 121
1,2,3-Trichlorobenzene	50.0	41.3		ug/Kg		83	55 - 140
1,2,3-Trichloropropane	50.0	47.2		ug/Kg		94	50 - 133
1,2,4-Trichlorobenzene	50.0	48.8		ug/Kg		98	66 - 127
1,2,4-Trimethylbenzene	50.0	54.4		ug/Kg		109	70 - 123
1,2-Dibromo-3-Chloropropane	50.0	41.2		ug/Kg		82	56 - 123
1,2-Dibromoethane	50.0	48.7		ug/Kg		97	70 - 125
1,2-Dichlorobenzene	50.0	52.5		ug/Kg		105	70 - 125
1,2-Dichloroethane	50.0	57.8		ug/Kg		116	68 - 127
1,2-Dichloropropane	50.0	64.7		ug/Kg		129	67 - 130
1,3,5-Trimethylbenzene	50.0	54.3		ug/Kg		109	70 - 123
1,3-Dichlorobenzene	50.0	54.6		ug/Kg		109	70 - 125
1,3-Dichloropropane	50.0	51.0		ug/Kg		102	62 - 136
1,4-Dichlorobenzene	50.0	51.6		ug/Kg		103	70 - 120
2,2-Dichloropropane	50.0	48.9		ug/Kg		98	58 - 129
2-Chlorotoluene	50.0	54.0		ug/Kg		108	70 - 125
4-Chlorotoluene	50.0	52.1		ug/Kg		104	68 - 124
Benzene	50.0	53.0		ug/Kg		106	70 - 120
Bromobenzene	50.0	56.7		ug/Kg		113	70 - 122
Bromochloromethane	50.0	50.1		ug/Kg		100	65 - 122
Bromodichloromethane	50.0	49.3		ug/Kg		99	69 - 120

TestAmerica Chicago

QC Sample Results

Client: TRC Environmental Corporation.
Project/Site: STH 11 Kentucky to Kearney - 275788

TestAmerica Job ID: 500-127508-1

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

Lab Sample ID: LCS 500-385282/4

Matrix: Solid

Analysis Batch: 385282

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	54.5		ug/Kg		109	56 - 132
Bromomethane	50.0	37.3		ug/Kg		75	40 - 130
Carbon tetrachloride	50.0	51.0		ug/Kg		102	65 - 122
Chlorobenzene	50.0	51.6		ug/Kg		103	70 - 120
Chloroethane	50.0	39.2		ug/Kg		78	45 - 127
Chloroform	50.0	48.6		ug/Kg		97	70 - 120
Chloromethane	50.0	70.6		ug/Kg		141	54 - 147
cis-1,2-Dichloroethene	50.0	52.0		ug/Kg		104	70 - 125
cis-1,3-Dichloropropene	50.0	50.5		ug/Kg		101	64 - 127
Dibromochloromethane	50.0	49.5		ug/Kg		99	68 - 125
Dibromomethane	50.0	49.0		ug/Kg		98	70 - 120
Dichlorodifluoromethane	50.0	51.5		ug/Kg		103	40 - 150
Ethylbenzene	50.0	52.3		ug/Kg		105	70 - 120
Hexachlorobutadiene	50.0	63.4		ug/Kg		127	51 - 150
Isopropylbenzene	50.0	56.9		ug/Kg		114	70 - 126
Methyl tert-butyl ether	50.0	45.4		ug/Kg		91	70 - 120
Methylene Chloride	50.0	46.5		ug/Kg		93	69 - 125
Naphthalene	50.0	38.9		ug/Kg		78	59 - 130
n-Butylbenzene	50.0	52.7		ug/Kg		105	68 - 125
N-Propylbenzene	50.0	54.3		ug/Kg		109	69 - 127
p-Isopropyltoluene	50.0	54.3		ug/Kg		109	70 - 125
sec-Butylbenzene	50.0	54.2		ug/Kg		108	70 - 123
Styrene	50.0	50.3		ug/Kg		101	70 - 120
tert-Butylbenzene	50.0	56.5		ug/Kg		113	70 - 121
Tetrachloroethene	50.0	59.9		ug/Kg		120	70 - 128
Toluene	50.0	51.8		ug/Kg		104	70 - 125
trans-1,2-Dichloroethene	50.0	49.5		ug/Kg		99	70 - 125
trans-1,3-Dichloropropene	50.0	48.2		ug/Kg		96	62 - 128
Trichloroethene	50.0	57.9		ug/Kg		116	70 - 125
Trichlorofluoromethane	50.0	48.1		ug/Kg		96	70 - 126
Vinyl chloride	50.0	61.3		ug/Kg		123	64 - 126
Xylenes, Total	100	101		ug/Kg		101	70 - 125

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	97		75 - 126
4-Bromofluorobenzene (Surr)	100		72 - 124
Dibromofluoromethane	90		75 - 120
Toluene-d8 (Surr)	91		75 - 120

Lab Sample ID: LB 500-384086/1-A

Matrix: Solid

Analysis Batch: 384262

Client Sample ID: Method Blank

Prep Type: TCLP

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	<0.010		0.020	0.010	mg/L			05/08/17 23:25	20
Methyl Ethyl Ketone	<0.050		0.10	0.050	mg/L			05/08/17 23:25	20
1,2-Dichloroethane	<0.010		0.020	0.010	mg/L			05/08/17 23:25	20
Benzene	<0.010		0.020	0.010	mg/L			05/08/17 23:25	20

TestAmerica Chicago

QC Sample Results

Client: TRC Environmental Corporation.
Project/Site: STH 11 Kentucky to Kearney - 275788

TestAmerica Job ID: 500-127508-1

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

Lab Sample ID: LB 500-384086/1-A
Matrix: Solid
Analysis Batch: 384262

Client Sample ID: Method Blank
Prep Type: TCLP

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon tetrachloride	<0.010		0.020	0.010	mg/L			05/08/17 23:25	20
Chlorobenzene	<0.010		0.020	0.010	mg/L			05/08/17 23:25	20
Chloroform	<0.020		0.040	0.020	mg/L			05/08/17 23:25	20
Tetrachloroethene	<0.010		0.020	0.010	mg/L			05/08/17 23:25	20
Trichloroethene	<0.010		0.020	0.010	mg/L			05/08/17 23:25	20
Vinyl chloride	<0.010		0.020	0.010	mg/L			05/08/17 23:25	20

Surrogate	LB %Recovery	LB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	104		75 - 126		05/08/17 23:25	20
4-Bromofluorobenzene (Surr)	110		72 - 124		05/08/17 23:25	20
Dibromofluoromethane	89		75 - 120		05/08/17 23:25	20
Toluene-d8 (Surr)	97		75 - 120		05/08/17 23:25	20

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

Lab Sample ID: MB 500-384171/1-A
Matrix: Solid
Analysis Batch: 384241

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 384171

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	<0.0020		0.0020	0.0020	mg/L		05/08/17 07:42	05/08/17 15:01	1
2,4,5-Trichlorophenol	<0.010		0.010	0.010	mg/L		05/08/17 07:42	05/08/17 15:01	1
2,4,6-Trichlorophenol	<0.0050		0.0050	0.0050	mg/L		05/08/17 07:42	05/08/17 15:01	1
2,4-Dinitrotoluene	<0.0010		0.0010	0.0010	mg/L		05/08/17 07:42	05/08/17 15:01	1
2-Methylphenol	<0.0020		0.0020	0.0020	mg/L		05/08/17 07:42	05/08/17 15:01	1
3 & 4 Methylphenol	<0.0020		0.0020	0.0020	mg/L		05/08/17 07:42	05/08/17 15:01	1
Hexachlorobenzene	<0.00050		0.00050	0.00050	mg/L		05/08/17 07:42	05/08/17 15:01	1
Hexachlorobutadiene	<0.0050		0.0050	0.0050	mg/L		05/08/17 07:42	05/08/17 15:01	1
Hexachloroethane	<0.0050		0.0050	0.0050	mg/L		05/08/17 07:42	05/08/17 15:01	1
Nitrobenzene	<0.0010		0.0010	0.0010	mg/L		05/08/17 07:42	05/08/17 15:01	1
Pentachlorophenol	<0.020		0.020	0.020	mg/L		05/08/17 07:42	05/08/17 15:01	1
Pyridine	<0.020		0.020	0.020	mg/L		05/08/17 07:42	05/08/17 15:01	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	90		40 - 145	05/08/17 07:42	05/08/17 15:01	1
2-Fluorobiphenyl	90		34 - 110	05/08/17 07:42	05/08/17 15:01	1
2-Fluorophenol (Surr)	65		27 - 110	05/08/17 07:42	05/08/17 15:01	1
Nitrobenzene-d5 (Surr)	97		36 - 120	05/08/17 07:42	05/08/17 15:01	1
Phenol-d5 (Surr)	43		20 - 100	05/08/17 07:42	05/08/17 15:01	1
Terphenyl-d14 (Surr)	107		40 - 145	05/08/17 07:42	05/08/17 15:01	1

Lab Sample ID: LCS 500-384171/2-A
Matrix: Solid
Analysis Batch: 384241

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 384171

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,4-Dichlorobenzene	0.0400	0.0322		mg/L		81	23 - 110

TestAmerica Chicago

QC Sample Results

Client: TRC Environmental Corporation.
 Project/Site: STH 11 Kentucky to Kearney - 275788

TestAmerica Job ID: 500-127508-1

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

Lab Sample ID: LCS 500-384171/2-A
Matrix: Solid
Analysis Batch: 384241

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 384171

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
2,4,5-Trichlorophenol	0.0400	0.0388		mg/L		97	63 - 120
2,4,6-Trichlorophenol	0.0400	0.0393		mg/L		98	62 - 110
2,4-Dinitrotoluene	0.0400	0.0432		mg/L		108	63 - 122
2-Methylphenol	0.0400	0.0342		mg/L		86	53 - 110
3 & 4 Methylphenol	0.0400	0.0329		mg/L		82	53 - 110
Hexachlorobenzene	0.0400	0.0375		mg/L		94	61 - 120
Hexachlorobutadiene	0.0400	0.0315		mg/L		79	20 - 100
Hexachloroethane	0.0400	0.0314		mg/L		79	20 - 100
Nitrobenzene	0.0400	0.0359		mg/L		90	53 - 110
Pentachlorophenol	0.0800	0.0779		mg/L		97	23 - 129
Pyridine	0.0400	0.0259		mg/L		65	15 - 110

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2,4,6-Tribromophenol (Surr)	98		40 - 145
2-Fluorobiphenyl	87		34 - 110
2-Fluorophenol (Surr)	61		27 - 110
Nitrobenzene-d5 (Surr)	92		36 - 120
Phenol-d5 (Surr)	44		20 - 100
Terphenyl-d14 (Surr)	103		40 - 145

Lab Sample ID: LB 500-383992/1-B
Matrix: Solid
Analysis Batch: 384241

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 384171

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	<0.020		0.020	0.020	mg/L		05/08/17 07:42	05/08/17 14:34	1
2,4,5-Trichlorophenol	<0.10		0.10	0.10	mg/L		05/08/17 07:42	05/08/17 14:34	1
2,4,6-Trichlorophenol	<0.050		0.050	0.050	mg/L		05/08/17 07:42	05/08/17 14:34	1
2,4-Dinitrotoluene	<0.010		0.010	0.010	mg/L		05/08/17 07:42	05/08/17 14:34	1
2-Methylphenol	<0.020		0.020	0.020	mg/L		05/08/17 07:42	05/08/17 14:34	1
3 & 4 Methylphenol	<0.020		0.020	0.020	mg/L		05/08/17 07:42	05/08/17 14:34	1
Hexachlorobenzene	<0.0050		0.0050	0.0050	mg/L		05/08/17 07:42	05/08/17 14:34	1
Hexachlorobutadiene	<0.050		0.050	0.050	mg/L		05/08/17 07:42	05/08/17 14:34	1
Hexachloroethane	<0.050		0.050	0.050	mg/L		05/08/17 07:42	05/08/17 14:34	1
Nitrobenzene	<0.010		0.010	0.010	mg/L		05/08/17 07:42	05/08/17 14:34	1
Pentachlorophenol	<0.20		0.20	0.20	mg/L		05/08/17 07:42	05/08/17 14:34	1
Pyridine	<0.20		0.20	0.20	mg/L		05/08/17 07:42	05/08/17 14:34	1

Surrogate	LB %Recovery	LB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	90		40 - 145	05/08/17 07:42	05/08/17 14:34	1
2-Fluorobiphenyl	84		34 - 110	05/08/17 07:42	05/08/17 14:34	1
2-Fluorophenol (Surr)	56		27 - 110	05/08/17 07:42	05/08/17 14:34	1
Nitrobenzene-d5 (Surr)	94		36 - 120	05/08/17 07:42	05/08/17 14:34	1
Phenol-d5 (Surr)	39		20 - 100	05/08/17 07:42	05/08/17 14:34	1
Terphenyl-d14 (Surr)	104		40 - 145	05/08/17 07:42	05/08/17 14:34	1

TestAmerica Chicago

QC Sample Results

Client: TRC Environmental Corporation.
Project/Site: STH 11 Kentucky to Kearney - 275788

TestAmerica Job ID: 500-127508-1

Method: WDNR - Wisconsin - Gasoline Range Organics (GC)

Lab Sample ID: MB 490-427841/43-A

Matrix: Solid

Analysis Batch: 428992

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 427841

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<18		25	18	ug/Kg		05/06/17 12:45	05/10/17 17:07	1
Ethylbenzene	<19		25	19	ug/Kg		05/06/17 12:45	05/10/17 17:07	1
Methyl tert-butyl ether	<12		25	12	ug/Kg		05/06/17 12:45	05/10/17 17:07	1
1,2,4-Trimethylbenzene	<15		25	15	ug/Kg		05/06/17 12:45	05/10/17 17:07	1
Naphthalene	<120		250	120	ug/Kg		05/06/17 12:45	05/10/17 17:07	1
1,3,5-Trimethylbenzene	<15		25	15	ug/Kg		05/06/17 12:45	05/10/17 17:07	1
Toluene	<17		25	17	ug/Kg		05/06/17 12:45	05/10/17 17:07	1
Xylenes, Total	<30		75	30	ug/Kg		05/06/17 12:45	05/10/17 17:07	1
Wisconsin GRO	<2500		5000	2500	ug/Kg		05/06/17 12:45	05/10/17 17:07	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>a,a,a-Trifluorotoluene</i>	89		80 - 120	05/06/17 12:45	05/10/17 17:07	1
<i>a,a,a-Trifluorotoluene</i>	102		80 - 120	05/06/17 12:45	05/10/17 17:07	1

Lab Sample ID: MB 490-427841/43-A

Matrix: Solid

Analysis Batch: 428992

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 427841

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<18		25	18	ug/Kg		05/06/17 12:45	05/11/17 06:32	1
Ethylbenzene	<19		25	19	ug/Kg		05/06/17 12:45	05/11/17 06:32	1
Methyl tert-butyl ether	<12		25	12	ug/Kg		05/06/17 12:45	05/11/17 06:32	1
1,2,4-Trimethylbenzene	<15		25	15	ug/Kg		05/06/17 12:45	05/11/17 06:32	1
Naphthalene	<120		250	120	ug/Kg		05/06/17 12:45	05/11/17 06:32	1
1,3,5-Trimethylbenzene	<15		25	15	ug/Kg		05/06/17 12:45	05/11/17 06:32	1
Toluene	<17		25	17	ug/Kg		05/06/17 12:45	05/11/17 06:32	1
Xylenes, Total	<30		75	30	ug/Kg		05/06/17 12:45	05/11/17 06:32	1
Wisconsin GRO	<2500		5000	2500	ug/Kg		05/06/17 12:45	05/11/17 06:32	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>a,a,a-Trifluorotoluene</i>	86		80 - 120	05/06/17 12:45	05/11/17 06:32	1
<i>a,a,a-Trifluorotoluene</i>	96		80 - 120	05/06/17 12:45	05/11/17 06:32	1

Lab Sample ID: LCS 490-427841/44-A

Matrix: Solid

Analysis Batch: 428992

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 427841

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Benzene	5000	4940		ug/Kg		99	76 - 120
Ethylbenzene	5000	4820		ug/Kg		96	77 - 120
Methyl tert-butyl ether	5000	5520		ug/Kg		110	73 - 120
1,2,4-Trimethylbenzene	5000	4880		ug/Kg		98	60 - 140
Naphthalene	5000	5720		ug/Kg		114	74 - 127
1,3,5-Trimethylbenzene	5000	4900		ug/Kg		98	74 - 133
Toluene	5000	4920		ug/Kg		98	79 - 120
Wisconsin GRO	50000	58100		ug/Kg		116	80 - 120

TestAmerica Chicago

QC Sample Results

Client: TRC Environmental Corporation.
 Project/Site: STH 11 Kentucky to Kearney - 275788

TestAmerica Job ID: 500-127508-1

Method: WDNR - Wisconsin - Gasoline Range Organics (GC) (Continued)

Lab Sample ID: LCS 490-427841/44-A
Matrix: Solid
Analysis Batch: 428992

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 427841

Surrogate	LCS %Recovery	LCS Qualifier	Limits
<i>a,a,a-Trifluorotoluene</i>	95		80 - 120
<i>a,a,a-Trifluorotoluene</i>	104		80 - 120

Lab Sample ID: LCS 490-427841/44-A
Matrix: Solid
Analysis Batch: 428992

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 427841

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Benzene	5000	4930		ug/Kg		99	76 - 120
Ethylbenzene	5000	4910		ug/Kg		98	77 - 120
Methyl tert-butyl ether	5000	5530		ug/Kg		111	73 - 120
1,2,4-Trimethylbenzene	5000	4910		ug/Kg		98	60 - 140
Naphthalene	5000	5600		ug/Kg		112	74 - 127
1,3,5-Trimethylbenzene	5000	4950		ug/Kg		99	74 - 133
Toluene	5000	4970		ug/Kg		99	79 - 120
Wisconsin GRO	50000	57900		ug/Kg		116	80 - 120

Surrogate	LCS %Recovery	LCS Qualifier	Limits
<i>a,a,a-Trifluorotoluene</i>	93		80 - 120
<i>a,a,a-Trifluorotoluene</i>	101		80 - 120

Lab Sample ID: LCSD 490-427841/45-A
Matrix: Solid
Analysis Batch: 428992

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 427841

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	Limits	RPD	RPD Limit
Benzene	5000	4810		ug/Kg		96	76 - 120	3	27
Ethylbenzene	5000	4710		ug/Kg		94	77 - 120	2	49
Methyl tert-butyl ether	5000	5560		ug/Kg		111	73 - 120	1	31
1,2,4-Trimethylbenzene	5000	4750		ug/Kg		95	60 - 140	3	50
Naphthalene	5000	5470		ug/Kg		109	74 - 127	5	50
1,3,5-Trimethylbenzene	5000	4790		ug/Kg		96	74 - 133	2	42
Toluene	5000	4820		ug/Kg		96	79 - 120	2	37
Wisconsin GRO	50000	56100		ug/Kg		112	80 - 120	3	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
<i>a,a,a-Trifluorotoluene</i>	95		80 - 120
<i>a,a,a-Trifluorotoluene</i>	101		80 - 120

Lab Sample ID: LCSD 490-427841/45-A
Matrix: Solid
Analysis Batch: 428992

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 427841

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	Limits	RPD	RPD Limit
Benzene	5000	4890		ug/Kg		98	76 - 120	1	27
Ethylbenzene	5000	4780		ug/Kg		96	77 - 120	3	49
Methyl tert-butyl ether	5000	5730		ug/Kg		115	73 - 120	3	31

TestAmerica Chicago

QC Sample Results

Client: TRC Environmental Corporation.
Project/Site: STH 11 Kentucky to Kearney - 275788

TestAmerica Job ID: 500-127508-1

Method: WDNR - Wisconsin - Gasoline Range Organics (GC) (Continued)

Lab Sample ID: LCSD 490-427841/45-A
Matrix: Solid
Analysis Batch: 428992

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 427841

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,2,4-Trimethylbenzene	5000	4820		ug/Kg		96	60 - 140	2	50
Naphthalene	5000	5760		ug/Kg		115	74 - 127	3	50
1,3,5-Trimethylbenzene	5000	4860		ug/Kg		97	74 - 133	2	42
Toluene	5000	4900		ug/Kg		98	79 - 120	2	37
Wisconsin GRO	50000	59200		ug/Kg		118	80 - 120	2	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
a,a,a-Trifluorotoluene	91		80 - 120
a,a,a-Trifluorotoluene	101		80 - 120

Method: WI-GRO - Wisconsin - Gasoline Range Organics (GC)

Lab Sample ID: LB3 500-384046/21-A
Matrix: Solid
Analysis Batch: 384093

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 384046

Analyte	LB3 Result	LB3 Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
WI Gasoline Range Organics (C5-C10)	<500		1500	500	ug/Kg		05/06/17 01:30	05/07/17 20:24	50

Lab Sample ID: LCS 500-384046/23-A
Matrix: Solid
Analysis Batch: 384093

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 384046

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
WI Gasoline Range Organics (C5-C10)	20000	22800		ug/Kg		114	80 - 120

Lab Sample ID: LCSD 500-384046/24-A
Matrix: Solid
Analysis Batch: 384093

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 384046

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
WI Gasoline Range Organics (C5-C10)	20000	22900		ug/Kg		114	80 - 120	0	20

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

Lab Sample ID: MB 500-384456/1-A
Matrix: Solid
Analysis Batch: 384545

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 384456

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<5.9		17	5.9	ug/Kg		05/09/17 16:38	05/10/17 11:02	1
PCB-1221	<7.3		17	7.3	ug/Kg		05/09/17 16:38	05/10/17 11:02	1
PCB-1232	<7.3		17	7.3	ug/Kg		05/09/17 16:38	05/10/17 11:02	1
PCB-1242	<5.5		17	5.5	ug/Kg		05/09/17 16:38	05/10/17 11:02	1
PCB-1248	<6.6		17	6.6	ug/Kg		05/09/17 16:38	05/10/17 11:02	1
PCB-1254	<3.6		17	3.6	ug/Kg		05/09/17 16:38	05/10/17 11:02	1

TestAmerica Chicago

QC Sample Results

Client: TRC Environmental Corporation.
 Project/Site: STH 11 Kentucky to Kearney - 275788

TestAmerica Job ID: 500-127508-1

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

Lab Sample ID: MB 500-384456/1-A
Matrix: Solid
Analysis Batch: 384545

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 384456

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1260	<8.2		17	8.2	ug/Kg		05/09/17 16:38	05/10/17 11:02	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	76		49 - 129	05/09/17 16:38	05/10/17 11:02	1
DCB Decachlorobiphenyl	70		37 - 121	05/09/17 16:38	05/10/17 11:02	1

Lab Sample ID: LCS 500-384456/2-A
Matrix: Solid
Analysis Batch: 384545

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 384456

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
PCB-1016	167	135		ug/Kg		81	57 - 120
PCB-1260	167	130		ug/Kg		78	61 - 125

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Tetrachloro-m-xylene	76		49 - 129
DCB Decachlorobiphenyl	63		37 - 121

Method: WI-DRO - Wisconsin - Diesel Range Organics (GC)

Lab Sample ID: MB 500-383737/1-A
Matrix: Solid
Analysis Batch: 383957

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 383737

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
WI Diesel Range Organics (C10-C28)	<1.6		4.0	1.6	mg/Kg		05/04/17 11:15	05/05/17 14:27	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
n-Nonane	83		44 - 148	05/04/17 11:15	05/05/17 14:27	1

Lab Sample ID: LCS 500-383737/2-A
Matrix: Solid
Analysis Batch: 383957

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 383737

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
WI Diesel Range Organics (C10-C28)	20.0	14.9		mg/Kg		75	70 - 120

Surrogate	LCS %Recovery	LCS Qualifier	Limits
n-Nonane	77		44 - 148

QC Sample Results

Client: TRC Environmental Corporation.
 Project/Site: STH 11 Kentucky to Kearney - 275788

TestAmerica Job ID: 500-127508-1

Method: WI-DRO - Wisconsin - Diesel Range Organics (GC) (Continued)

Lab Sample ID: LCSD 500-383737/3-A

Matrix: Solid
Analysis Batch: 383957

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA
Prep Batch: 383737

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	Limits	RPD	Limit
WI Diesel Range Organics (C10-C28)	20.0	16.3		mg/Kg		81	70 - 120	9	20

Surrogate	%Recovery	LCSD Qualifier	Limits
n-Nonane	71		44 - 148

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 500-384019/1-A

Matrix: Solid
Analysis Batch: 384724

Client Sample ID: Method Blank

Prep Type: Total/NA
Prep Batch: 384019

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	<0.23		0.50	0.23	mg/Kg		05/06/17 11:05	05/11/17 03:07	1

Lab Sample ID: LCS 500-384019/2-A

Matrix: Solid
Analysis Batch: 384724

Client Sample ID: Lab Control Sample

Prep Type: Total/NA
Prep Batch: 384019

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Lead	10.0	8.72		mg/Kg		87	80 - 120

Lab Sample ID: 500-127508-1 MS

Matrix: Solid
Analysis Batch: 384724

Client Sample ID: GP-12 (2-4)

Prep Type: Total/NA
Prep Batch: 384019

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Lead	19	F1	10.1	22.7	F1	mg/Kg	☼	39	75 - 125

Lab Sample ID: 500-127508-1 MSD

Matrix: Solid
Analysis Batch: 384724

Client Sample ID: GP-12 (2-4)

Prep Type: Total/NA
Prep Batch: 384019

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Lead	19	F1	10.2	23.0	F1	mg/Kg	☼	42	75 - 125	1	20

Lab Sample ID: 500-127508-1 DU

Matrix: Solid
Analysis Batch: 384724

Client Sample ID: GP-12 (2-4)

Prep Type: Total/NA
Prep Batch: 384019

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
Lead	19	F1	17.4		mg/Kg	☼	7	20

Lab Sample ID: MB 500-384021/1-A

Matrix: Solid
Analysis Batch: 384719

Client Sample ID: Method Blank

Prep Type: Total/NA
Prep Batch: 384021

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	<0.23		0.50	0.23	mg/Kg		05/06/17 11:07	05/10/17 18:20	1

TestAmerica Chicago

QC Sample Results

Client: TRC Environmental Corporation.
Project/Site: STH 11 Kentucky to Kearney - 275788

TestAmerica Job ID: 500-127508-1

Lab Sample ID: LCS 500-384021/2-A
Matrix: Solid
Analysis Batch: 384719

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 384021
%Rec.

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Lead	10.0	8.43		mg/Kg		84	80 - 120

Lab Sample ID: 500-127508-26 MS
Matrix: Solid
Analysis Batch: 384719

Client Sample ID: GP-24 (2-4)
Prep Type: Total/NA
Prep Batch: 384021
%Rec.

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Lead	27	V F1	10.2	37.2		mg/Kg	☼	103	75 - 125

Lab Sample ID: 500-127508-26 MSD
Matrix: Solid
Analysis Batch: 384719

Client Sample ID: GP-24 (2-4)
Prep Type: Total/NA
Prep Batch: 384021
%Rec.

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	Limits	RPD	RPD Limit
Lead	27	V F1	10.7	34.0	F1	mg/Kg	☼	69	75 - 125	9	20

Lab Sample ID: 500-127508-26 DU
Matrix: Solid
Analysis Batch: 384719

Client Sample ID: GP-24 (2-4)
Prep Type: Total/NA
Prep Batch: 384021
%Rec.

Analyte	Sample Result	Sample Qualifier	Spike Added	DU Result	DU Qualifier	Unit	D	%Rec	Limits	RPD	RPD Limit
Lead	27	V F1		23.2		mg/Kg	☼			14	20

Lab Sample ID: LCS 500-384187/2-A
Matrix: Solid
Analysis Batch: 384328

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 384187
%Rec.

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Arsenic	0.100	0.0958		mg/L		96	80 - 120
Barium	0.500	0.514		mg/L		103	80 - 120
Cadmium	0.0500	0.0503		mg/L		101	80 - 120
Chromium	0.200	0.194		mg/L		97	80 - 120
Copper	0.250	0.254		mg/L		102	80 - 120
Lead	0.100	0.0943		mg/L		94	80 - 120
Nickel	0.500	0.486		mg/L		97	80 - 120
Selenium	0.100	0.0946		mg/L		95	80 - 120
Silver	0.0500	0.0473		mg/L		95	80 - 120
Zinc	0.500	0.457		mg/L		91	80 - 120

Lab Sample ID: LB 500-383992/1-C
Matrix: Solid
Analysis Batch: 384328

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 384187

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.010		0.050	0.010	mg/L		05/08/17 08:10	05/08/17 20:33	1
Barium	<0.050		0.50	0.050	mg/L		05/08/17 08:10	05/08/17 20:33	1
Cadmium	<0.0020		0.0050	0.0020	mg/L		05/08/17 08:10	05/08/17 20:33	1
Chromium	<0.010		0.025	0.010	mg/L		05/08/17 08:10	05/08/17 20:33	1
Copper	<0.010		0.025	0.010	mg/L		05/08/17 08:10	05/08/17 20:33	1
Lead	<0.0075		0.050	0.0075	mg/L		05/08/17 08:10	05/08/17 20:33	1
Nickel	<0.010		0.025	0.010	mg/L		05/08/17 08:10	05/08/17 20:33	1

TestAmerica Chicago

QC Sample Results

Client: TRC Environmental Corporation.
 Project/Site: STH 11 Kentucky to Kearney - 275788

TestAmerica Job ID: 500-127508-1

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: LB 500-383992/1-C
Matrix: Solid
Analysis Batch: 384328

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 384187

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Selenium	<0.020		0.050	0.020	mg/L		05/08/17 08:10	05/08/17 20:33	1
Silver	<0.010		0.025	0.010	mg/L		05/08/17 08:10	05/08/17 20:33	1
Zinc	<0.020		0.10	0.020	mg/L		05/08/17 08:10	05/08/17 20:33	1

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 500-384260/12-A
Matrix: Solid
Analysis Batch: 384394

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 384260

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		05/08/17 13:40	05/09/17 10:03	1

Lab Sample ID: LCS 500-384260/13-A
Matrix: Solid
Analysis Batch: 384394

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 384260

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.00200	0.00212		mg/L		106	80 - 120

Lab Sample ID: LB 500-383992/1-D
Matrix: Solid
Analysis Batch: 384394

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 384260

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		05/08/17 13:40	05/09/17 10:06	1

Method: 9014 - Cyanide

Lab Sample ID: MB 500-385217/1-A
Matrix: Solid
Analysis Batch: 385342

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 385217

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.17		0.50	0.17	mg/Kg		05/15/17 17:10	05/15/17 20:20	1

Lab Sample ID: LCS 500-385217/2-A
Matrix: Solid
Analysis Batch: 385342

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 385217

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide, Total	5.00	4.75		mg/Kg		95	80 - 120

TestAmerica Chicago

QC Sample Results

Client: TRC Environmental Corporation.
 Project/Site: STH 11 Kentucky to Kearney - 275788

TestAmerica Job ID: 500-127508-1

Method: 9034 - Sulfide, Acid soluble and Insoluble (Titrimetric)

Lab Sample ID: MB 500-385245/1-A
Matrix: Solid
Analysis Batch: 385402

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 385245

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide	<4.7		10	4.7	mg/Kg		05/15/17 17:36	05/15/17 21:39	1

Lab Sample ID: LCS 500-385245/2-A
Matrix: Solid
Analysis Batch: 385402

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 385245

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Sulfide	338	335		mg/Kg		99	80 - 120



Lab Chronicle

Client: TRC Environmental Corporation.
Project/Site: STH 11 Kentucky to Kearney - 275788

TestAmerica Job ID: 500-127508-1

Client Sample ID: GP-12 (2-4)

Date Collected: 05/02/17 08:25

Date Received: 05/03/17 09:00

Lab Sample ID: 500-127508-1

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	427540	05/04/17 15:20	BAA	TAL NSH

Client Sample ID: GP-12 (2-4)

Date Collected: 05/02/17 08:25

Date Received: 05/03/17 09:00

Lab Sample ID: 500-127508-1

Matrix: Solid

Percent Solids: 86.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	WI GRO			427841	05/05/17 15:52	CU	TAL NSH
Total/NA	Analysis	WDNR		1	428992	05/10/17 17:34	A1B	TAL NSH
Total/NA	Prep	3050B			384019	05/06/17 11:05	JNH	TAL CHI
Total/NA	Analysis	6010B		1	384724	05/11/17 03:14	PJ1	TAL CHI

Client Sample ID: GP-12 (6-8)

Date Collected: 05/02/17 08:30

Date Received: 05/03/17 09:00

Lab Sample ID: 500-127508-2

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	427540	05/04/17 15:20	BAA	TAL NSH

Client Sample ID: GP-12 (6-8)

Date Collected: 05/02/17 08:30

Date Received: 05/03/17 09:00

Lab Sample ID: 500-127508-2

Matrix: Solid

Percent Solids: 83.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	WI GRO			427841	05/05/17 15:52	CU	TAL NSH
Total/NA	Analysis	WDNR		1	428992	05/10/17 18:01	A1B	TAL NSH
Total/NA	Prep	3050B			384019	05/06/17 11:05	JNH	TAL CHI
Total/NA	Analysis	6010B		1	384724	05/11/17 03:32	PJ1	TAL CHI

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

Date Collected: 05/02/17 09:15

Date Received: 05/03/17 09:00

Lab Sample ID: 500-127508-3

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	383751	05/04/17 12:11	LWN	TAL CHI

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

Date Collected: 05/02/17 09:15

Date Received: 05/03/17 09:00

Lab Sample ID: 500-127508-3

Matrix: Solid

Percent Solids: 81.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			384046	05/02/17 09:15	WRE	TAL CHI

TestAmerica Chicago

Lab Chronicle

Client: TRC Environmental Corporation.
 Project/Site: STH 11 Kentucky to Kearney - 275788

TestAmerica Job ID: 500-127508-1

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

Date Collected: 05/02/17 09:15
 Date Received: 05/03/17 09:00

Lab Sample ID: 500-127508-3

Matrix: Solid
 Percent Solids: 81.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		50	385282	05/16/17 04:52	TCT	TAL CHI
Total/NA	Prep	3050B			384019	05/06/17 11:05	JNH	TAL CHI
Total/NA	Analysis	6010B		1	384724	05/11/17 03:38	PJ1	TAL CHI

Client Sample ID: GP-13 (6-8)

Date Collected: 05/02/17 09:20
 Date Received: 05/03/17 09:00

Lab Sample ID: 500-127508-4

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	383751	05/04/17 12:11	LWN	TAL CHI

Client Sample ID: GP-13 (6-8)

Date Collected: 05/02/17 09:20
 Date Received: 05/03/17 09:00

Lab Sample ID: 500-127508-4

Matrix: Solid
 Percent Solids: 81.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			384046	05/02/17 09:20	WRE	TAL CHI
Total/NA	Analysis	8260B		50	385282	05/16/17 05:18	TCT	TAL CHI
Total/NA	Prep	3050B			384019	05/06/17 11:05	JNH	TAL CHI
Total/NA	Analysis	6010B		1	384724	05/11/17 03:48	PJ1	TAL CHI

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

Date Collected: 05/02/17 09:30
 Date Received: 05/03/17 09:00

Lab Sample ID: 500-127508-5

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	383751	05/04/17 12:11	LWN	TAL CHI

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

Date Collected: 05/02/17 09:30
 Date Received: 05/03/17 09:00

Lab Sample ID: 500-127508-5

Matrix: Solid
 Percent Solids: 82.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			384046	05/02/17 09:30	WRE	TAL CHI
Total/NA	Analysis	8260B		50	385282	05/16/17 05:44	TCT	TAL CHI
Total/NA	Prep	3050B			384019	05/06/17 11:05	JNH	TAL CHI
Total/NA	Analysis	6010B		1	384724	05/11/17 03:51	PJ1	TAL CHI

TestAmerica Chicago

Lab Chronicle

Client: TRC Environmental Corporation.
Project/Site: STH 11 Kentucky to Kearney - 275788

TestAmerica Job ID: 500-127508-1

Client Sample ID: GP-14 (6-8)

Date Collected: 05/02/17 09:35

Date Received: 05/03/17 09:00

Lab Sample ID: 500-127508-6

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	383751	05/04/17 12:11	LWN	TAL CHI

Client Sample ID: GP-14 (6-8)

Date Collected: 05/02/17 09:35

Date Received: 05/03/17 09:00

Lab Sample ID: 500-127508-6

Matrix: Solid

Percent Solids: 73.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			384046	05/02/17 09:35	WRE	TAL CHI
Total/NA	Analysis	8260B		50	385282	05/16/17 06:11	TCT	TAL CHI
Total/NA	Prep	3050B			384019	05/06/17 11:05	JNH	TAL CHI
Total/NA	Analysis	6010B		1	384724	05/11/17 03:54	PJ1	TAL CHI

Client Sample ID: GP-15 (2-4)

Date Collected: 05/02/17 09:55

Date Received: 05/03/17 09:00

Lab Sample ID: 500-127508-7

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	427540	05/04/17 15:20	BAA	TAL NSH

Client Sample ID: GP-15 (2-4)

Date Collected: 05/02/17 09:55

Date Received: 05/03/17 09:00

Lab Sample ID: 500-127508-7

Matrix: Solid

Percent Solids: 92.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	WI GRO			427841	05/05/17 15:52	CU	TAL NSH
Total/NA	Analysis	WDNR		1	428992	05/10/17 18:28	A1B	TAL NSH
Total/NA	Prep	3050B			384019	05/06/17 11:05	JNH	TAL CHI
Total/NA	Analysis	6010B		1	384724	05/11/17 03:58	PJ1	TAL CHI

Client Sample ID: GP-15 (6-8)

Date Collected: 05/02/17 10:00

Date Received: 05/03/17 09:00

Lab Sample ID: 500-127508-8

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	427540	05/04/17 15:20	BAA	TAL NSH

Client Sample ID: GP-15 (6-8)

Date Collected: 05/02/17 10:00

Date Received: 05/03/17 09:00

Lab Sample ID: 500-127508-8

Matrix: Solid

Percent Solids: 85.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	WI GRO			427841	05/05/17 15:52	CU	TAL NSH

TestAmerica Chicago

Lab Chronicle

Client: TRC Environmental Corporation.
 Project/Site: STH 11 Kentucky to Kearney - 275788

TestAmerica Job ID: 500-127508-1

Client Sample ID: GP-15 (6-8)

Lab Sample ID: 500-127508-8

Date Collected: 05/02/17 10:00

Matrix: Solid

Date Received: 05/03/17 09:00

Percent Solids: 85.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	WDNR		1	428992	05/10/17 18:55	A1B	TAL NSH
Total/NA	Prep	3050B			384019	05/06/17 11:05	JNH	TAL CHI
Total/NA	Analysis	6010B		1	384724	05/11/17 04:02	PJ1	TAL CHI

Client Sample ID: GP-16 (2-4)

Lab Sample ID: 500-127508-9

Date Collected: 05/02/17 10:30

Matrix: Solid

Date Received: 05/03/17 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	427540	05/04/17 15:20	BAA	TAL NSH

Client Sample ID: GP-16 (2-4)

Lab Sample ID: 500-127508-9

Date Collected: 05/02/17 10:30

Matrix: Solid

Date Received: 05/03/17 09:00

Percent Solids: 81.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	WI GRO			427841	05/05/17 15:52	CU	TAL NSH
Total/NA	Analysis	WDNR		1	428992	05/10/17 19:22	A1B	TAL NSH
Total/NA	Prep	3050B			384019	05/06/17 11:05	JNH	TAL CHI
Total/NA	Analysis	6010B		1	384724	05/11/17 04:06	PJ1	TAL CHI

Client Sample ID: GP-16 (6-8)

Lab Sample ID: 500-127508-10

Date Collected: 05/02/17 10:35

Matrix: Solid

Date Received: 05/03/17 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	427540	05/04/17 15:20	BAA	TAL NSH

Client Sample ID: GP-16 (6-8)

Lab Sample ID: 500-127508-10

Date Collected: 05/02/17 10:35

Matrix: Solid

Date Received: 05/03/17 09:00

Percent Solids: 83.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	WI GRO			427841	05/05/17 15:52	CU	TAL NSH
Total/NA	Analysis	WDNR		1	428992	05/10/17 19:48	A1B	TAL NSH
Total/NA	Prep	3050B			384019	05/06/17 11:05	JNH	TAL CHI
Total/NA	Analysis	6010B		1	384724	05/11/17 04:10	PJ1	TAL CHI

Lab Chronicle

Client: TRC Environmental Corporation.
Project/Site: STH 11 Kentucky to Kearney - 275788

TestAmerica Job ID: 500-127508-1

Client Sample ID: GP-17 (2-4)

Lab Sample ID: 500-127508-11

Date Collected: 05/02/17 10:50

Matrix: Solid

Date Received: 05/03/17 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	427540	05/04/17 15:20	BAA	TAL NSH

Client Sample ID: GP-17 (2-4)

Lab Sample ID: 500-127508-11

Date Collected: 05/02/17 10:50

Matrix: Solid

Date Received: 05/03/17 09:00

Percent Solids: 91.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	WI GRO			427841	05/05/17 15:52	CU	TAL NSH
Total/NA	Analysis	WDNR		1	428992	05/10/17 20:15	A1B	TAL NSH
Total/NA	Prep	3050B			384019	05/06/17 11:05	JNH	TAL CHI
Total/NA	Analysis	6010B		1	384724	05/11/17 04:15	PJ1	TAL CHI

Client Sample ID: GP-17 (6-8)

Lab Sample ID: 500-127508-12

Date Collected: 05/02/17 10:55

Matrix: Solid

Date Received: 05/03/17 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	427540	05/04/17 15:20	BAA	TAL NSH

Client Sample ID: GP-17 (6-8)

Lab Sample ID: 500-127508-12

Date Collected: 05/02/17 10:55

Matrix: Solid

Date Received: 05/03/17 09:00

Percent Solids: 79.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	WI GRO			427841	05/05/17 15:52	CU	TAL NSH
Total/NA	Analysis	WDNR		1	428992	05/10/17 20:42	A1B	TAL NSH
Total/NA	Prep	3050B			384019	05/06/17 11:05	JNH	TAL CHI
Total/NA	Analysis	6010B		1	384827	05/11/17 13:32	PJ1	TAL CHI

Client Sample ID: GP-18 (2-4)

Lab Sample ID: 500-127508-13

Date Collected: 05/02/17 11:25

Matrix: Solid

Date Received: 05/03/17 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	427540	05/04/17 15:20	BAA	TAL NSH

Client Sample ID: GP-18 (2-4)

Lab Sample ID: 500-127508-13

Date Collected: 05/02/17 11:25

Matrix: Solid

Date Received: 05/03/17 09:00

Percent Solids: 94.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	WI GRO			427841	05/05/17 15:52	CU	TAL NSH

TestAmerica Chicago

Lab Chronicle

Client: TRC Environmental Corporation.
 Project/Site: STH 11 Kentucky to Kearney - 275788

TestAmerica Job ID: 500-127508-1

Client Sample ID: GP-18 (2-4)

Date Collected: 05/02/17 11:25
 Date Received: 05/03/17 09:00

Lab Sample ID: 500-127508-13

Matrix: Solid
 Percent Solids: 94.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	WDNR		1	428992	05/10/17 21:09	A1B	TAL NSH
Total/NA	Prep	3050B			384019	05/06/17 11:05	JNH	TAL CHI
Total/NA	Analysis	6010B		1	384724	05/11/17 04:23	PJ1	TAL CHI

Client Sample ID: GP-18 (6-8)

Date Collected: 05/02/17 11:30
 Date Received: 05/03/17 09:00

Lab Sample ID: 500-127508-14

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	427540	05/04/17 15:20	BAA	TAL NSH

Client Sample ID: GP-18 (6-8)

Date Collected: 05/02/17 11:30
 Date Received: 05/03/17 09:00

Lab Sample ID: 500-127508-14

Matrix: Solid
 Percent Solids: 93.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	WI GRO			427841	05/05/17 15:52	CU	TAL NSH
Total/NA	Analysis	WDNR		1	428992	05/10/17 21:36	A1B	TAL NSH
Total/NA	Prep	3050B			384019	05/06/17 11:05	JNH	TAL CHI
Total/NA	Analysis	6010B		1	384724	05/11/17 04:35	PJ1	TAL CHI

Client Sample ID: GP-19 (2-4)

Date Collected: 05/02/17 11:50
 Date Received: 05/03/17 09:00

Lab Sample ID: 500-127508-15

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	427540	05/04/17 15:20	BAA	TAL NSH

Client Sample ID: GP-19 (2-4)

Date Collected: 05/02/17 11:50
 Date Received: 05/03/17 09:00

Lab Sample ID: 500-127508-15

Matrix: Solid
 Percent Solids: 95.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	WI GRO			427841	05/05/17 15:52	CU	TAL NSH
Total/NA	Analysis	WDNR		1	428992	05/10/17 23:23	A1B	TAL NSH
Total/NA	Prep	3050B			384019	05/06/17 11:05	JNH	TAL CHI
Total/NA	Analysis	6010B		1	384724	05/11/17 04:39	PJ1	TAL CHI

TestAmerica Chicago

Lab Chronicle

Client: TRC Environmental Corporation.
Project/Site: STH 11 Kentucky to Kearney - 275788

TestAmerica Job ID: 500-127508-1

Client Sample ID: GP-19 (6-8)

Lab Sample ID: 500-127508-16

Date Collected: 05/02/17 11:55

Matrix: Solid

Date Received: 05/03/17 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	427540	05/04/17 15:20	BAA	TAL NSH

Client Sample ID: GP-19 (6-8)

Lab Sample ID: 500-127508-16

Date Collected: 05/02/17 11:55

Matrix: Solid

Date Received: 05/03/17 09:00

Percent Solids: 82.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	WI GRO			427841	05/05/17 15:52	CU	TAL NSH
Total/NA	Analysis	WDNR		1	428992	05/10/17 23:50	A1B	TAL NSH
Total/NA	Prep	3050B			384019	05/06/17 11:05	JNH	TAL CHI
Total/NA	Analysis	6010B		1	384724	05/11/17 04:50	PJ1	TAL CHI

Client Sample ID: GP-20 (2-4)

Lab Sample ID: 500-127508-17

Date Collected: 05/02/17 12:20

Matrix: Solid

Date Received: 05/03/17 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	427540	05/04/17 15:20	BAA	TAL NSH

Client Sample ID: GP-20 (2-4)

Lab Sample ID: 500-127508-17

Date Collected: 05/02/17 12:20

Matrix: Solid

Date Received: 05/03/17 09:00

Percent Solids: 91.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	WI GRO			427841	05/05/17 15:52	CU	TAL NSH
Total/NA	Analysis	WDNR		1	428992	05/11/17 00:17	A1B	TAL NSH

Client Sample ID: GP-20 (6-8)

Lab Sample ID: 500-127508-18

Date Collected: 05/02/17 12:25

Matrix: Solid

Date Received: 05/03/17 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	427540	05/04/17 15:20	BAA	TAL NSH

Client Sample ID: GP-20 (6-8)

Lab Sample ID: 500-127508-18

Date Collected: 05/02/17 12:25

Matrix: Solid

Date Received: 05/03/17 09:00

Percent Solids: 90.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	WI GRO			427841	05/05/17 15:52	CU	TAL NSH
Total/NA	Analysis	WDNR		1	428992	05/11/17 00:44	A1B	TAL NSH

TestAmerica Chicago

Lab Chronicle

Client: TRC Environmental Corporation.
Project/Site: STH 11 Kentucky to Kearney - 275788

TestAmerica Job ID: 500-127508-1

Client Sample ID: GP-20 (14-16)

Lab Sample ID: 500-127508-19

Date Collected: 05/02/17 12:30

Matrix: Solid

Date Received: 05/03/17 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	427540	05/04/17 15:20	BAA	TAL NSH

Client Sample ID: GP-20 (14-16)

Lab Sample ID: 500-127508-19

Date Collected: 05/02/17 12:30

Matrix: Solid

Date Received: 05/03/17 09:00

Percent Solids: 86.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	WI GRO			427841	05/05/17 15:52	CU	TAL NSH
Total/NA	Analysis	WDNR		1	428992	05/11/17 12:11	A1B	TAL NSH

Client Sample ID: GP-21 (2-4)

Lab Sample ID: 500-127508-20

Date Collected: 05/02/17 12:50

Matrix: Solid

Date Received: 05/03/17 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	427540	05/04/17 15:20	BAA	TAL NSH

Client Sample ID: GP-21 (2-4)

Lab Sample ID: 500-127508-20

Date Collected: 05/02/17 12:50

Matrix: Solid

Date Received: 05/03/17 09:00

Percent Solids: 80.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	WI GRO			427841	05/05/17 15:52	CU	TAL NSH
Total/NA	Analysis	WDNR		1	428992	05/11/17 09:30	A1B	TAL NSH

Client Sample ID: GP-21 (6-8)

Lab Sample ID: 500-127508-21

Date Collected: 05/02/17 12:55

Matrix: Solid

Date Received: 05/03/17 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	427540	05/04/17 15:20	BAA	TAL NSH

Client Sample ID: GP-21 (6-8)

Lab Sample ID: 500-127508-21

Date Collected: 05/02/17 12:55

Matrix: Solid

Date Received: 05/03/17 09:00

Percent Solids: 81.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	WI GRO			427841	05/05/17 15:52	CU	TAL NSH
Total/NA	Analysis	WDNR		20	428992	05/11/17 10:24	A1B	TAL NSH
Total/NA	Prep	WI GRO			427841	05/05/17 15:52	CU	TAL NSH
Total/NA	Analysis	WDNR		1	428992	05/11/17 10:51	A1B	TAL NSH

TestAmerica Chicago

Lab Chronicle

Client: TRC Environmental Corporation.
Project/Site: STH 11 Kentucky to Kearney - 275788

TestAmerica Job ID: 500-127508-1

Client Sample ID: GP-22 (2-4)

Lab Sample ID: 500-127508-22

Date Collected: 05/02/17 13:35

Matrix: Solid

Date Received: 05/03/17 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	384965	05/12/17 14:00	LWN	TAL CHI

Client Sample ID: GP-22 (2-4)

Lab Sample ID: 500-127508-22

Date Collected: 05/02/17 13:35

Matrix: Solid

Date Received: 05/03/17 09:00

Percent Solids: 85.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	WI GRO			427841	05/05/17 15:52	CU	TAL NSH
Total/NA	Analysis	WDNR		1	428992	05/11/17 02:31	A1B	TAL NSH
Total/NA	Prep	WI GRO			427841	05/05/17 15:52	CU	TAL NSH
Total/NA	Analysis	WDNR		1	428992	05/11/17 09:57	A1B	TAL NSH
Total/NA	Prep	3050B			384019	05/06/17 11:05	JNH	TAL CHI
Total/NA	Analysis	6010B		1	384724	05/11/17 04:54	PJ1	TAL CHI

Client Sample ID: GP-22 (6-8)

Lab Sample ID: 500-127508-23

Date Collected: 05/02/17 13:40

Matrix: Solid

Date Received: 05/03/17 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	427540	05/04/17 15:20	BAA	TAL NSH

Client Sample ID: GP-22 (6-8)

Lab Sample ID: 500-127508-23

Date Collected: 05/02/17 13:40

Matrix: Solid

Date Received: 05/03/17 09:00

Percent Solids: 93.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	WI GRO			427841	05/05/17 15:52	CU	TAL NSH
Total/NA	Analysis	WDNR		1	428992	05/11/17 02:58	A1B	TAL NSH
Total/NA	Prep	3050B			384019	05/06/17 11:05	JNH	TAL CHI
Total/NA	Analysis	6010B		1	384724	05/11/17 04:57	PJ1	TAL CHI

Client Sample ID: GP-23 (2-4)

Lab Sample ID: 500-127508-24

Date Collected: 05/02/17 13:50

Matrix: Solid

Date Received: 05/03/17 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	427540	05/04/17 15:20	BAA	TAL NSH

TestAmerica Chicago

Lab Chronicle

Client: TRC Environmental Corporation.
 Project/Site: STH 11 Kentucky to Kearney - 275788

TestAmerica Job ID: 500-127508-1

Client Sample ID: GP-23 (2-4)

Lab Sample ID: 500-127508-24

Date Collected: 05/02/17 13:50

Matrix: Solid

Date Received: 05/03/17 09:00

Percent Solids: 89.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	WI GRO			427841	05/05/17 15:52	CU	TAL NSH
Total/NA	Analysis	WDNR		1	428992	05/11/17 03:25	A1B	TAL NSH
Total/NA	Prep	3050B			384019	05/06/17 11:05	JNH	TAL CHI
Total/NA	Analysis	6010B		1	384724	05/11/17 05:01	PJ1	TAL CHI

Client Sample ID: GP-23 (6-8)

Lab Sample ID: 500-127508-25

Date Collected: 05/02/17 13:05

Matrix: Solid

Date Received: 05/03/17 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			384086	05/06/17 13:35	RMP	TAL CHI
TCLP	Analysis	8260B		20	384262	05/09/17 02:01	JMP	TAL CHI
TCLP	Leach	1311			383992	05/05/17 15:05	RMP	TAL CHI
TCLP	Prep	3510C			384171	05/08/17 07:42	JJH	TAL CHI
TCLP	Analysis	8270D		1	384241	05/08/17 18:41	GES	TAL CHI
TCLP	Leach	1311			383992	05/05/17 15:05	RMP	TAL CHI
TCLP	Prep	3010A			384187	05/08/17 08:10	JEF	TAL CHI
TCLP	Analysis	6010B		1	384328	05/08/17 21:55	PJ1	TAL CHI
TCLP	Leach	1311			383992	05/05/17 15:05	RMP	TAL CHI
TCLP	Prep	7470A			384260	05/08/17 13:40	MJD	TAL CHI
TCLP	Analysis	7470A		1	384394	05/09/17 10:16	MJD	TAL CHI
Total/NA	Analysis	1010		1	385288		ADK	TAL CHI
						(Start) 05/15/17 14:30		
						(End) 05/15/17 16:22		
Total/NA	Prep	9010B			385217	05/15/17 17:10	MAN	TAL CHI
Total/NA	Analysis	9014		1	385342		MAN	TAL CHI
						(Start) 05/15/17 20:21		
						(End) 05/15/17 20:22		
Total/NA	Prep	9030B			385245	05/15/17 17:36	JBj	TAL CHI
Total/NA	Analysis	9034		1	385402	05/15/17 21:53	JBj	TAL CHI
Total/NA	Analysis	9045C		1	384553		SMO	TAL CHI
						(Start) 05/09/17 16:08		
						(End) 05/09/17 16:10		
Total/NA	Analysis	9095A		1	385286		ADK	TAL CHI
						(Start) 05/15/17 21:43		
						(End) 05/15/17 21:46		
Total/NA	Analysis	Moisture		1	383751	05/04/17 12:11	LWN	TAL CHI
Total/NA	Analysis	Moisture		1	427540	05/04/17 15:20	BAA	TAL NSH
Total/NA	Analysis	SM 2710F		1	385047		ADK	TAL CHI
						(Start) 05/12/17 22:19		
						(End) 05/12/17 22:24		

Lab Chronicle

Client: TRC Environmental Corporation.
Project/Site: STH 11 Kentucky to Kearney - 275788

TestAmerica Job ID: 500-127508-1

Client Sample ID: GP-23 (6-8)

Lab Sample ID: 500-127508-25

Date Collected: 05/02/17 13:05

Matrix: Solid

Date Received: 05/03/17 09:00

Percent Solids: 85.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	WI GRO			427841	05/05/17 15:52	CU	TAL NSH
Total/NA	Analysis	WDNR		1	428992	05/11/17 06:59	A1B	TAL NSH

Client Sample ID: GP-23 (6-8)

Lab Sample ID: 500-127508-25

Date Collected: 05/02/17 13:05

Matrix: Solid

Date Received: 05/03/17 09:00

Percent Solids: 86.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			384456	05/09/17 16:38	JP1	TAL CHI
Total/NA	Analysis	8082A		1	384545	05/10/17 14:21	BJH	TAL CHI
Total/NA	Prep	WI DRO PREP			383737	05/04/17 11:15	LMC	TAL CHI
Total/NA	Analysis	WI-DRO		1	383957	05/05/17 17:25	SAW	TAL CHI
Total/NA	Prep	3050B			384019	05/06/17 11:05	JNH	TAL CHI
Total/NA	Analysis	6010B		1	384724	05/11/17 05:06	PJ1	TAL CHI

Client Sample ID: GP-24 (2-4)

Lab Sample ID: 500-127508-26

Date Collected: 05/02/17 14:15

Matrix: Solid

Date Received: 05/03/17 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	383751	05/04/17 12:11	LWN	TAL CHI

Client Sample ID: GP-24 (2-4)

Lab Sample ID: 500-127508-26

Date Collected: 05/02/17 14:15

Matrix: Solid

Date Received: 05/03/17 09:00

Percent Solids: 86.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			384046	05/02/17 14:15	WRE	TAL CHI
Total/NA	Analysis	8260B		50	385282	05/16/17 06:37	TCT	TAL CHI
Total/NA	Prep	3050B			384021	05/06/17 11:07	JNH	TAL CHI
Total/NA	Analysis	6010B		1	384719	05/10/17 18:27	PJ1	TAL CHI

Client Sample ID: GP-24 (6-8)

Lab Sample ID: 500-127508-27

Date Collected: 05/02/17 14:20

Matrix: Solid

Date Received: 05/03/17 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	383751	05/04/17 12:11	LWN	TAL CHI

TestAmerica Chicago

Lab Chronicle

Client: TRC Environmental Corporation.
Project/Site: STH 11 Kentucky to Kearney - 275788

TestAmerica Job ID: 500-127508-1

Client Sample ID: GP-24 (6-8)

Lab Sample ID: 500-127508-27

Date Collected: 05/02/17 14:20

Matrix: Solid

Date Received: 05/03/17 09:00

Percent Solids: 81.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			384046	05/02/17 14:20	WRE	TAL CHI
Total/NA	Analysis	8260B		50	385282	05/16/17 07:03	TCT	TAL CHI
Total/NA	Prep	3050B			384021	05/06/17 11:07	JNH	TAL CHI
Total/NA	Analysis	6010B		1	384719	05/10/17 18:54	PJ1	TAL CHI

Client Sample ID: GP-25 (2-4)

Lab Sample ID: 500-127508-28

Date Collected: 05/02/17 14:35

Matrix: Solid

Date Received: 05/03/17 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	383751	05/04/17 12:11	LWN	TAL CHI

Client Sample ID: GP-25 (2-4)

Lab Sample ID: 500-127508-28

Date Collected: 05/02/17 14:35

Matrix: Solid

Date Received: 05/03/17 09:00

Percent Solids: 86.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			384046	05/02/17 14:35	WRE	TAL CHI
Total/NA	Analysis	8260B		50	385282	05/16/17 07:29	TCT	TAL CHI
Total/NA	Prep	3050B			384021	05/06/17 11:07	JNH	TAL CHI
Total/NA	Analysis	6010B		1	384719	05/10/17 18:59	PJ1	TAL CHI

Client Sample ID: GP-25 (6-8)

Lab Sample ID: 500-127508-29

Date Collected: 05/02/17 14:40

Matrix: Solid

Date Received: 05/03/17 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	383751	05/04/17 12:11	LWN	TAL CHI

Client Sample ID: GP-25 (6-8)

Lab Sample ID: 500-127508-29

Date Collected: 05/02/17 14:40

Matrix: Solid

Date Received: 05/03/17 09:00

Percent Solids: 81.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	WI GRO			384046	05/02/17 14:40	WRE	TAL CHI
Total/NA	Analysis	8260B		50	385282	05/16/17 07:55	TCT	TAL CHI
Total/NA	Prep	WI GRO			384046	05/02/17 14:40	WRE	TAL CHI
Total/NA	Analysis	WI-GRO		1000	384093	05/07/17 22:05	WRE	TAL CHI
Total/NA	Prep	WI DRO PREP			383737	05/04/17 11:15	LMC	TAL CHI
Total/NA	Analysis	WI-DRO		1	383957	05/05/17 18:01	SAW	TAL CHI
Total/NA	Prep	3050B			384021	05/06/17 11:07	JNH	TAL CHI
Total/NA	Analysis	6010B		1	384719	05/10/17 19:03	PJ1	TAL CHI

TestAmerica Chicago

Lab Chronicle

Client: TRC Environmental Corporation.
Project/Site: STH 11 Kentucky to Kearney - 275788

TestAmerica Job ID: 500-127508-1

Client Sample ID: Trip Blank

Lab Sample ID: 500-127508-30

Date Collected: 05/02/17 00:00

Matrix: Solid

Date Received: 05/03/17 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	383751	05/04/17 12:11	LWN	TAL CHI

Client Sample ID: Trip Blank

Lab Sample ID: 500-127508-30

Date Collected: 05/02/17 00:00

Matrix: Solid

Date Received: 05/03/17 09:00

Percent Solids: 100.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			384046	05/02/17 00:00	WRE	TAL CHI
Total/NA	Analysis	8260B		50	385282	05/16/17 01:22	TCT	TAL CHI

Laboratory References:

SFAL = SF Analytical Laboratories, 2345 South 170th Street, New Berlin, WI 53151

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

TAL NSH = TestAmerica Nashville, 2960 Foster Creighton Drive, Nashville, TN 37204, TEL (615)726-0177

Accreditation/Certification Summary

Client: TRC Environmental Corporation.
Project/Site: STH 11 Kentucky to Kearney - 275788

TestAmerica Job ID: 500-127508-1

Laboratory: TestAmerica Chicago

The accreditations/certifications listed below are applicable to this report.

Authority	Program	EPA Region	Identification Number	Expiration Date
Wisconsin	State Program	5	999580010	08-31-17

Laboratory: TestAmerica Nashville

The accreditations/certifications listed below are applicable to this report.

Authority	Program	EPA Region	Identification Number	Expiration Date
Wisconsin	State Program	5	998020430	08-31-17

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15
- 16

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: _____
 Address: _____
 Phone: _____
 Fax: _____
 E-Mail: _____

Bill To _____ (optional)
 Contact: _____
 Company: _____
 Address: _____
 Address: _____
 Phone: _____
 Fax: _____
 PO#/Reference# _____

Chain of Custody Record

Lab Job #: 500-127508
 Chain of Custody Number: _____
 Page 1 of 3
 Temperature °C of Cooler: (4.2)(5.4)

Client		Client Project #		Preservative		Parameter		Matrix		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		Lab Project #		Parameter		Matrix		Comments		
Project Location/State		Lab Project #		Parameter		Matrix				
Sampler		Lab PM		Date		Time		# of Containers		Matrix
Lab ID	MS/MSD	Sample ID		Date		Time		# of Containers		
1		GP-12 (2-4)		8/02	825					PNOGS + NaIP Lead GRO VOCs DRO
2		GP-12 (6-8)			830					
3		GP-13 (2-4)			915					
4		GP-13 (6-8)			920					
5		GP-14 (2-4)			930					
6		GP-14 (6-8)			935					
7		GP-15 (2-4)			955					
8		GP-15 (6-8)			1000					
9		GP-16 (2-4)			1030					
10		GP-16 (6-8)			1035					

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>8/02</u>	Time <u>1630</u>	Received By <u>[Signature]</u>	Company <u>TA</u>	Date <u>05/03/17</u>	Time <u>0900</u>
Relinquished By _____	Company _____	Date _____	Time _____	Received By _____	Company _____	Date _____	Time _____
Relinquished By _____	Company _____	Date _____	Time _____	Received By _____	Company _____	Date _____	Time _____

Lab Courier _____
 Shipped
 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:



500-127508 COC

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

2417 Bond Street, University Park, IL 60484
 Phone: 708.534.5200 Fax: 708.534.5211

Report To _____ (optional)	Bill To _____ (optional)
Contact: _____	Contact: _____
Company: _____	Company: _____
Address: _____	Address: _____
Address: _____	Address: _____
Phone: _____	Phone: _____
Fax: _____	Fax: _____
E-Mail: _____	PO#/Reference# _____

Chain of Custody Record

Lab Job #: 500-127508
 Chain of Custody Number: _____
 Page 2 of 3
 Temperature °C of Cooler: _____

Client		Client Project #		Preservative		Parameter		Comments	
TRC		275793		1 1 8				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		Lab Project #		# of Containers		Matrix		Comments	
STW 11 - Kentucky to Kentucky									
Project Location/State		Lab PM		Date		Time		Comments	
Ducane, WI									
Sampler		Sample ID		Sampling		Matrix		Comments	
M. Karpus				Date		Time			
Lab ID	MS/MSD								
11		GP-17 (2-4)		5/02		1050			
12		GP-17 (6-8)		}		1055			
13		GP-18 (2-4)				1125			
14		GP-18 (6-8)				1130			
15		GP-19 (2-4)				1150			
16		GP-19 (6-8)				1155			
17		GP-20 (2-4)				1220	2		
18		GP-20 (6-8)				1225	2		
19		GP-20 (14-16)				1230	2		
20		GP-21 (2-4)				1250	2		

Turnaround Time Required (Business Days)
 ___ 1 Day ___ 2 Days ___ 5 Days ___ 7 Days 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: TRC	Date: 5/02	Time: 1630	Received By: <u>[Signature]</u>	Company: TA	Date: 05/03/07	Time: 0900	Lab Courier: _____
Relinquished By: _____	Company: _____	Date: _____	Time: _____	Received By: _____	Company: _____	Date: _____	Time: _____	Shipped: _____
Relinquished By: _____	Company: _____	Date: _____	Time: _____	Received By: _____	Company: _____	Date: _____	Time: _____	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: _____

Report To (optional)
Contact: _____
Company: _____
Address: _____
Address: _____
Phone: _____
Fax: _____
E-Mail: _____

Bill To (optional)
Contact: _____
Company: _____
Address: _____
Address: _____
Phone: _____
Fax: _____
PO#/Reference# _____

Chain of Custody Record

Lab Job #: 500-127508
Chain of Custody Number: _____
Page 3 of 3
Temperature °C of Cooler: _____

Client		Client Project #		Preservative		Parameter		Matrix		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			
TRC		557 275788		1	1	8	8	1	8				
Project Name SW II - Kenney to Kenney		Lab Project #		Parameter		Matrix		Matrix					
Project Location/State Kenney, WI		Lab Project #		Parameter		Matrix		Matrix		Comments			
Sampler M. Kamies		Lab PM		Parameter		Matrix		Matrix					
Lab ID	MS/MSD	Sample ID	Date	Time	# of Containers	Matrix	Parameter	Matrix	Matrix				
21		GP-21 (6-8)	5/02	1255	2	S	ENDUR	GRD	Lead				
22		GP-22 (2-4)	↓	1335	↓	↓	GRD	GRD	DEO				
23		GP-22 (6-8)		1340									
24		GP-23 (2-4)		1350									
25		GP-23 (6-8)		1355									
26		GP-24 (2-4)		1415									
27		GP-24 (6-8)		1420									
28		GP-25 (2-4)		1435									
29		GP-25 (6-8)		1440									
30		TRIP BLANK		↓			↓	2	-				

Turnaround Time Required (Business Days)
 1 Day 2 Days 5 Days 7 Days 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 <i>[Signature]</i>	Company TRC	Date 5/02/17	Time 1630	Received By <i>[Signature]</i>	Company TA	Date 05/03/17	Time 0900
Relinquished By	Company	Date	Time	Received By	Company	Date	Time
Relinquished By	Company	Date	Time	Received By	Company	Date	Time

Lab Courier: _____
Shipped: _____
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:

Fredrick, Sandie

From: Kahrilas, Miranda <MKahrilas@trcsolutions.com>
Sent: Wednesday, May 03, 2017 4:38 PM
To: Fredrick, Sandie; Bergmann, Bryan
Subject: RE: TestAmerica Sample Login Confirmation files from 500-127508 STH 11 Kentucky to Kearney - 275788

Sandie,

Please add GRO to the sample analysis for Lab ID 29, Sample ID GP-25 (6-8). I believe you would be able to take this from the methanol kit that was already included, but please let me know if you need me to send over another.

Thanks!
Miranda

From: Fredrick, Sandie [<mailto:sandie.fredrick@testamericainc.com>]
Sent: Wednesday, May 03, 2017 1:45 PM
To: Bergmann, Bryan <BBergmann@trcsolutions.com>; Kahrilas, Miranda <MKahrilas@trcsolutions.com>
Subject: TestAmerica Sample Login Confirmation files from 500-127508 STH 11 Kentucky to Kearney - 275788

Hello Bryan/Miranda,

Attached, please find the Sample Confirmation files for job 500-127508; STH 11 Kentucky to Kearney - 275788

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: [336983]
Attachments: 3

1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16

ORIGIN ID: RRLA (262) 901-2153
MIRANDA KAHLAS
TRC ENVIRONMENTAL
150 N PATRICK BLVD, SUITE 180
BROOKFIELD, WI 53045
UNITED STATES US

SHIP DATE: 02MAY17
ACTWGT: 25.00 LB
CAD: 110326482INLET3850

BILL RECIPIENT

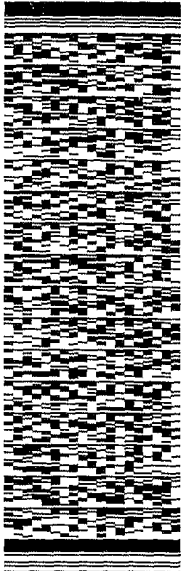
TO ATTN: SAMPLE RECEIVING
TEST AMERICA - CHICAGO
2417 BOND ST



UNIVERSITY PARK IL 60484
REF: (708) 534-5200
PO: N.V.

DEPT: 500-127508 Waybill

546.118734.63C1



J171117021401uv

1 of 2
TRK# 7790 4639 2173
0201
MASTER

WED - 03 MAY 10:30A
PRIORITY OVERNIGHT

79 JOTA

60484
ORD
IL-US

ORIGIN ID: RRLA (262) 901-2153
MIRANDA KAHLAS
TRC ENVIRONMENTAL
150 N PATRICK BLVD, SUITE 180
BROOKFIELD, WI 53045
UNITED STATES US

SHIP DAT
ACTWGT
CAD: 110

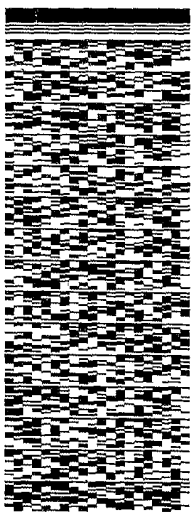
BILL REC

TO ATTN: SAMPLE RECEIVING
TEST AMERICA - CHICAGO
2417 BOND ST

RT 510
ST 2

UNIVERSITY PARK IL 60484
REF: (708) 534-5200
PO: N.V.

DEPT:



2 of 2

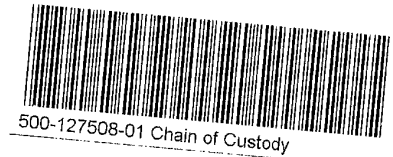
MP# 7790 4639 2081
0263
Mst# 7790 4639 2173
0201

WED - 1
PRIORIT

79 JOTA



COOLER RECEIPT FORM



Cooler Received/Opened On 5/4/2017 @ 0945

Time Samples Removed From Cooler 13:50 Time Samples Placed In Storage _____ (2 Hour Window)

1. Tracking # 3984 (last 4 digits, FedEx) Courier: FedEx

IR Gun ID 160656843 pH Strip Lot _____ Chlorine Strip Lot _____

2. Temperature of rep. sample or temp blank when opened: 27 Degrees Celsius

3. If Item #2 temperature is 0°C or less, was the representative sample or temp blank frozen? YES NO (NA)

4. Were custody seals on outside of cooler? (YES)...NO...NA

If yes, how many and where: 2 front / back

5. Were the seals intact, signed, and dated correctly? (YES)...NO...NA

6. Were custody papers inside cooler? (YES)...NO...NA

I certify that I opened the cooler and answered questions 1-6 (initial) HZG

7. Were custody seals on containers: YES (NO) and Intact YES...NO...(NA)

Were these signed and dated correctly? YES...NO...(NA)

8. Packing mat'l used? Bubblewrap (O) Plastic bag (O) Peanuts Vermiculite Foam Insert Paper Other None

9. Cooling process: (Ice) Ice-pack Ice (direct contact) Dry ice Other None

10. Did all containers arrive in good condition (unbroken)? (YES)...NO...NA

11. Were all container labels complete (#, date, signed, pres., etc)? (YES)...NO...NA

12. Did all container labels and tags agree with custody papers? (YES)...NO...NA

13a. Were VOA vials received? (YES)...NO...NA

b. Was there any observable headspace present in any VOA vial? YES...NO...(NA)

14. Was there a Trip Blank in this cooler? YES...(NO)...NA If multiple coolers, sequence # _____

I certify that I unloaded the cooler and answered questions 7-14 (initial) [Signature]

15a. On pres'd bottles, did pH test strips suggest preservation reached the correct pH level? YES...NO...(NA)

b. Did the bottle labels indicate that the correct preservatives were used (YES)...NO...NA

16. Was residual chlorine present? YES...NO...(NA)

I certify that I checked for chlorine and pH as per SOP and answered questions 15-16 (initial) [Signature]

17. Were custody papers properly filled out (ink, signed, etc)? (YES)...NO...NA

18. Did you sign the custody papers in the appropriate place? (YES)...NO...NA

19. Were correct containers used for the analysis requested? (YES)...NO...NA

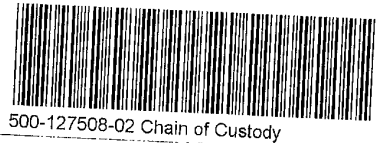
20. Was sufficient amount of sample sent in each container? (YES)...NO...NA

I certify that I entered this project into LIMS and answered questions 17-20 (initial) [Signature]

I certify that I attached a label with the unique LIMS number to each container (initial) [Signature]

21. Were there Non-Conformance issues at login? YES...NO Was a NCM generated? YES...(NO)...# _____

COOLER RECEIPT FORM



Cooler Received/Opened On 5/4/2017 @ 0945

Time Samples Removed From Cooler 13:50 Time Samples Placed In Storage _____ (2 Hour Window)

1. Tracking # 3984 (last 4 digits, FedEx) Courier: FedEx

IR Gun ID 160656843 pH Strip Lot _____ Chlorine Strip Lot _____

2. Temperature of rep. sample or temp blank when opened: 27 Degrees Celsius

3. If Item #2 temperature is 0°C or less, was the representative sample or temp blank frozen? YES NO NA

4. Were custody seals on outside of cooler? YES...NO...NA

If yes, how many and where: 2 front/back

5. Were the seals intact, signed, and dated correctly? YES...NO...NA

6. Were custody papers inside cooler? YES...NO...NA

I certify that I opened the cooler and answered questions 1-6 (initial) HZG

7. Were custody seals on containers: YES NO and Intact YES...NO...NA

Were these signed and dated correctly? YES...NO...NA

8. Packing mat'l used? Bubblewrap Plastic bag Peanuts Vermiculite Foam Insert Paper Other None

9. Cooling process: Ice Ice-pack Ice (direct contact) Dry ice Other None

10. Did all containers arrive in good condition (unbroken)? YES...NO...NA

11. Were all container labels complete (#, date, signed, pres., etc)? YES...NO...NA

12. Did all container labels and tags agree with custody papers? YES...NO...NA

13a. Were VOA vials received? YES...NO...NA

b. Was there any observable headspace present in any VOA vial? YES...NO...NA

14. Was there a Trip Blank in this cooler? YES...NO...NA If multiple coolers, sequence # _____

I certify that I unloaded the cooler and answered questions 7-14 (initial) _____

15a. On pres'd bottles, did pH test strips suggest preservation reached the correct pH level? YES...NO...NA

b. Did the bottle labels indicate that the correct preservatives were used YES...NO...NA

16. Was residual chlorine present? YES...NO...NA

I certify that I checked for chlorine and pH as per SOP and answered questions 15-16 (initial) _____

17. Were custody papers properly filled out (ink, signed, etc)? YES...NO...NA

18. Did you sign the custody papers in the appropriate place? YES...NO...NA

19. Were correct containers used for the analysis requested? YES...NO...NA

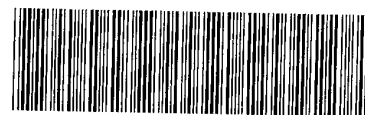
20. Was sufficient amount of sample sent in each container? YES...NO...NA

I certify that I entered this project into LIMS and answered questions 17-20 (initial) _____

I certify that I attached a label with the unique LIMS number to each container (initial) _____

21. Were there Non-Conformance issues at login? YES...NO Was a NCM generated? YES...NO...# _____

COOLER RECEIPT FORM



500-127508-03 Chain of Custody

Cooler Received/Opened On 5/4/2017 @ 0945

Time Samples Removed From Cooler 15:30 Time Samples Placed In Storage _____ (2 Hour Window)

1. Tracking # 3984 (last 4 digits, FedEx) Courier: FedEx

IR Gun ID 160656843 pH Strip Lot _____ Chlorine Strip Lot _____

2. Temperature of rep. sample or temp blank when opened: 27 Degrees Celsius

3. If Item #2 temperature is 0°C or less, was the representative sample or temp blank frozen? YES NO NA

4. Were custody seals on outside of cooler? YES...NO...NA

If yes, how many and where: 2 front / back

5. Were the seals intact, signed, and dated correctly? YES...NO...NA

6. Were custody papers inside cooler? YES...NO...NA

I certify that I opened the cooler and answered questions 1-6 (initial) HZG

7. Were custody seals on containers: YES NO and Intact YES...NO...NA

Were these signed and dated correctly? YES...NO...NA

8. Packing mat'l used? Bubblewrap Plastic bag Peanuts Vermiculite Foam Insert Paper Other None

9. Cooling process: Ice Ice-pack Ice (direct contact) Dry ice Other None

10. Did all containers arrive in good condition (unbroken)? YES...NO...NA

11. Were all container labels complete (#, date, signed, pres., etc)? YES...NO...NA

12. Did all container labels and tags agree with custody papers? YES...NO...NA

13a. Were VOA vials received? YES...NO...NA

b. Was there any observable headspace present in any VOA vial? YES...NO...NA

14. Was there a Trip Blank in this cooler? YES...NO...NA If multiple coolers, sequence # _____

I certify that I unloaded the cooler and answered questions 7-14 (initial) D

15a. On pres'd bottles, did pH test strips suggest preservation reached the correct pH level? YES...NO...NA

b. Did the bottle labels indicate that the correct preservatives were used YES...NO...NA

16. Was residual chlorine present? YES...NO...NA

I certify that I checked for chlorine and pH as per SOP and answered questions 15-16 (initial) D

17. Were custody papers properly filled out (ink, signed, etc)? YES...NO...NA

18. Did you sign the custody papers in the appropriate place? YES...NO...NA

19. Were correct containers used for the analysis requested? YES...NO...NA

20. Was sufficient amount of sample sent in each container? YES...NO...NA

I certify that I entered this project into LIMS and answered questions 17-20 (initial) HZG

I certify that I attached a label with the unique LIMS number to each container (initial) HZG

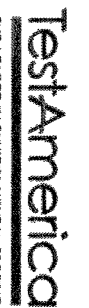
21. Were there Non-Conformance issues at login? YES...NO Was a NCM generated? YES...NO...# _____

TestAmerica Chicago

2417 Bond Street
University Park, IL 60484
Phone (708) 534-5200 Fax (708) 534-5211

Chain of Custody Record

Loc: 500
127508



Client Information (Sub Contract Lab)

Client Contact:
Shipping/Receiving

Sampler:
Phone:

Lab P/N: Fredrick, Sample J
E-Mail: sandie.fredrick@testamericainc.com
Accreditations Required (See note): State Program - Wisconsin

Car: Wisconsin

COC No: 500-88709.3
Page: Page 3 of 3

Company: TestAmerica Laboratories, Inc

Due Date Requested: 5/4/2017

Analysis Requested

Address: 2960 Foster Creighton Drive,
City: Nashville
State, Zip: TN, 37204
Phone: 615-726-0177(Tel) 615-726-3404(Fax)
Email: STH 11 Kentucky to Kearney - 275788

TAT Requested (day/s):
PO #:
WO #:
Project #: 50010540
SSOM#:

Field Filtered Sample (Yes or No)

Preservation Codes:

Project Name: STH 11 Kentucky to Kearney - 275788
Site:

Perform MS/MSD (Yes or No)

Moisture/ Percent Moisture/Solids
WI_GROWIGRO_P_FM PVOC+NAP
WI_GROWIGRO_P_FM (MOD) PVOC+NAP+GRO

- A - HCL
- B - NaOH
- C - Zn Acetate
- D - Nitric Acid
- E - H2SO4
- F - MeOH
- G - Amchlor
- H - Ascorbic Acid
- I - Ice
- J - DI Water
- K - EDTA
- L - EDA
- M - Hexane
- N - None
- O - AspNet
- P - Na2O2S
- Q - Na2SO3
- R - Na2S2O3
- S - H2SO4
- T - TSP Dodecylhydrate
- U - Acetone
- V - MCAA
- W - pH 4.5
- Z - other (specify)

Sample Identification - Client ID (Lab ID)

Sample ID	Sample Date	Sample Time	Sample Type (G=Comp, G=grab)	Matrix (Wet, Solid, Oxidized, Aqueous, Ash)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	Moisture/ Percent Moisture/Solids	WI_GROWIGRO_P_FM PVOC+NAP	WI_GROWIGRO_P_FM (MOD) PVOC+NAP+GRO	Total Number of containers	Special Instructions/Note:
GP-22 (6-8) (500-127508-23)	5/2/17	13:40	Central	Solid	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>				2	
GP-23 (2-4) (500-127508-24)	5/2/17	13:50	Central	Solid	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>				2	
GP-23 (6-8) (500-127508-25)	5/2/17	13:05	Central	Solid	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>				3	Plus GRO

Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc, places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. 1

Possible Hazard Identification

Unconfirmed Deliverable Requested: I, II, III, IV, Other (specify)

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
 Return To Client Disposal By Lab Archive For _____ Months

Empty Kit Relinquished by:

Date:

Time:

Method of Shipment:

Relinquished by:

Date/Time: 05/03/17

Time: 1600

Company: TZA

Received by:

Date/Time:

Company:

Relinquished by:

Date/Time:

Time:

Company:

Received by:

Date/Time:

Company:

Custody Seals Intact: Yes No

Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks:

Date/Time:

Company:

Login Sample Receipt Checklist

Client: TRC Environmental Corporation.

Job Number: 500-127508-1

Login Number: 127508

List Source: TestAmerica Chicago

List Number: 1

Creator: Kelsey, Shawn M

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	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	(4.2)(5.4)c
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 (excluding tests with immediate HTs)	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.	True	



Login Sample Receipt Checklist

Client: TRC Environmental Corporation.

Job Number: 500-127508-1

Login Number: 127508

List Number: 2

Creator: Shaw, Rashard M

List Source: TestAmerica Nashville

List Creation: 05/04/17 02:20 PM

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	N/A	
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	
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 (excluding tests with immediate HTs)	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.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



Detail Contract Activity Report

January 01, 2020 to December 14, 2020

Specific Contract(s) : '3063201603'

All Ticket Types
History and Waiting

All Facilities

* - Confirmed Qty Applied to Billing

3063201603

Ticket Date	Facility & Ticket Number	Customer	Truck	Material	Billing Quantity
04/27/2020 I 01	1085008	333441 - ZIGNEGO COMPANY, INC.	ZIGT72	SW-CONT W/FUEL	18.53 TN
04/27/2020 I 01	1085010	333441 - ZIGNEGO COMPANY, INC.	ZIGT78	SW-CONT W/FUEL	17.39 TN
04/27/2020 I 01	1085012	333441 - ZIGNEGO COMPANY, INC.	ZIGT79	SW-CONT W/FUEL	18.35 TN
04/27/2020 I 01	1085015	333441 - ZIGNEGO COMPANY, INC.	ZIGT91	SW-CONT W/FUEL	20.36 TN
04/27/2020 I 01	1085017	333441 - ZIGNEGO COMPANY, INC.	ZIGT80	SW-CONT W/FUEL	16.40 TN
04/27/2020 I 01	1085025	333441 - ZIGNEGO COMPANY, INC.	ZIGT72	SW-CONT W/FUEL	16.05 TN
04/27/2020 I 01	1085028	333441 - ZIGNEGO COMPANY, INC.	SZA13	SW-CONT W/FUEL	17.10 TN
04/27/2020 I 01	1085029	333441 - ZIGNEGO COMPANY, INC.	ZIGT78	SW-CONT W/FUEL	17.04 TN
04/27/2020 I 01	1085030	333441 - ZIGNEGO COMPANY, INC.	ZIGT79	SW-CONT W/FUEL	16.77 TN
04/27/2020 I 01	1085031	333441 - ZIGNEGO COMPANY, INC.	ROQ09	SW-CONT W/FUEL	17.39 TN
04/27/2020 I 01	1085032	333441 - ZIGNEGO COMPANY, INC.	ZIGT91	SW-CONT W/FUEL	18.84 TN
04/27/2020 I 01	1085033	333441 - ZIGNEGO COMPANY, INC.	SZA44	SW-CONT W/FUEL	19.04 TN
04/27/2020 I 01	1085035	333441 - ZIGNEGO COMPANY, INC.	SZA13	SW-CONT W/FUEL	20.48 TN
04/27/2020 I 01	1085037	333441 - ZIGNEGO COMPANY, INC.	ROQ09	SW-CONT W/FUEL	20.55 TN
04/27/2020 I 01	1085038	333441 - ZIGNEGO COMPANY, INC.	SZA44	SW-CONT W/FUEL	20.44 TN
04/27/2020 I 01	1085042	333441 - ZIGNEGO COMPANY, INC.	ZIGT72	SW-CONT W/FUEL	18.22 TN
04/27/2020 I 01	1085043	333441 - ZIGNEGO COMPANY, INC.	ZIGT80	SW-CONT W/FUEL	19.31 TN
04/27/2020 I 01	1085045	333441 - ZIGNEGO COMPANY, INC.	ZIGT78	SW-CONT W/FUEL	17.05 TN
04/27/2020 I 01	1085047	333441 - ZIGNEGO COMPANY, INC.	ZIGT79	SW-CONT W/FUEL	17.28 TN
04/27/2020 I 01	1085050	333441 - ZIGNEGO COMPANY, INC.	ZIGT91	SW-CONT W/FUEL	16.75 TN
04/27/2020 I 01	1085052	333441 - ZIGNEGO COMPANY, INC.	SZA13	SW-CONT W/FUEL	16.28 TN
04/27/2020 I 01	1085054	333441 - ZIGNEGO COMPANY, INC.	ROQ09	SW-CONT W/FUEL	12.59 TN
04/27/2020 I 01	1085061	333441 - ZIGNEGO COMPANY, INC.	SZA44	SW-CONT W/FUEL	19.03 TN
06/08/2020 I 01	1088331	333441 - ZIGNEGO COMPANY, INC.	ZIGT70-03	SW-CONT W/FUEL	19.37 TN
06/08/2020 I 01	1088353	333441 - ZIGNEGO COMPANY, INC.	ZIGT70-03	SW-CONT W/FUEL	8.87 TN
10/01/2020 I 01	1097242	333441 - ZIGNEGO COMPANY, INC.	ZIGT70-04	SW-CONT W/FUEL	17.32 TN
10/20/2020 I 01	1099141	333441 - ZIGNEGO COMPANY, INC.	ZIGT80	SW-CONT W/FUEL	14.41 TN

Tickets Reported: 27 Items Reported: 27

Material Summary	Weight		Volume		Count		Billing Quantity
	Inbound	Outbound	Inbound	Outbound	Inbound	Outbound	
VH - SW-CONT W/FUEL	471.21	0.00 TN	195.00	0.00 YD	0.00	0.00	471.21 TN

All Ticket Types
History and Waiting
* - Confirmed Qty Applied to Billing

Detail Contract Activity Report

January 01, 2020 to December 14, 2020

Specific Contract(s) : '3063201603'

All Facilities

Tickets Reported: 27 Items Reported: 27

Special Waste Profile



Disposal Facility: Waste Profile #:
Sales Rep #:

I. Generator Information

Generator Name:
Generator Site Address:
City: County: State: Zip:
State ID/Reg No: State Approval/Waste Code: NAICS #:
Generator Mailing Address (if different)
City: County: State: Zip:
Generator Contact Name: Email:
Phone Number: Ext: Fax Number:

II. Billing Information

Bill To: Contact Name:
Billing Address: Email:
City: State: Zip: Phone:

III. Waste Stream Information

Name of Waste:
Process Generating Waste:
Type of Waste: Physical State: Method of Shipment:
Estimated Volume: Volume Type:
Frequency: Disposal Consideration:

IV. Representative Sample Certification

No Sample Taken
 Sample Taken Type of Sample

Is the representative sample collected to prepare this profile and laboratory analysis, collected in accordance with U.S. EPA 40 CFR 261.20(c) guidelines or equivalent? Yes No

Sample Date: Sample ID Numbers or SDS:

Remember to attach Laboratory Analytical Report (and/or Material Safety Data Sheet) including Chain of Custody and required parameters provided for this profile.

V. Physical Characteristics of Waste

Characteristic Components (must equal 100%):

1.	Soil
2.	
3.	
4.	
5.	

% By Weight (out of 100% - ranges acceptable):

100

Color: brown	Odor (describe): none	Does Waste Contain Free Liquids? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	% Solids: 100	pH: ~7	Flash Point: >176 °F
-----------------	--------------------------	---------------------------------------------------------------------------------------------------------	------------------	-----------	-------------------------

Attach Laboratory Analytical Report (and/or Material Safety Data Sheet) including Chain of Custody and required parameters provided for this profile.

RCRA Regulatory Questions

- Does this waste or generating process contain regulated concentrations of the following Pesticides and/ or Herbicides: Chlordane, Endrin, Heptachlor (and its epoxides), Lindane, Methoxychlor, Toxaphene, 2,4-D, or 2,4,5-TP Silvex as defined in 40 CFR 261.33? Yes No
- Does this waste contain reactive sulfides (greater than 500 ppm) or reactive cyanide (greater than 250 ppm) [reference 40 CFR 261.23(a)(5)]? Yes No
- Does this waste contain regulated concentrations of Polychlorinated Biphenyls (PCBs) as defined in 40 CFR Part 761? Yes No
- Does this waste contain concentrations of listed hazardous wastes defined in 40 CFR 261.31, 261.32, 261.33, including RCRA F-Listed Solvents? Yes No
- Has this waste been delisted under 40 CFR 260.20 and 260.22? If yes, attach the final decision to delist the waste as published in the Federal Register. Yes No
- Does this waste exhibit a Hazardous Characteristic as defined by Federal and/or State regulations? If Yes, identify the applicable waste code and specify if the waste is hazardous as defined by Federal, State or both? Yes No
- Does this waste contain regulated concentrations of 2,3,7,8-Tetrachlorodibenzodioxin (2,3,7,8-TCDD), or any other dioxin as defined in 40 CFR 261.31? Yes No
- Is this a regulated Medical or Infectious Waste as defined by Federal and/or State regulations? Yes No
- Is this a regulated Radioactive Waste as defined by Federal and/or State regulations? Yes No
- Is this a solid waste that is not a hazardous waste in accordance with 40 CFR 261.4(b)? If yes, please provide the corresponding regulatory citation. Yes No

Republic Services Waste Handling Questions

- Does this waste generate heat or react when contacted with water/moisture? Yes No
- Does the waste contain sulfur or sulfur by-products? Yes No
- Is this waste generated at a State or Federal Superfund cleanup site subject to regulation under CERCLA? Yes No
- 4a. Is this waste from a TSD facility, TSD-like facility or consolidator (i.e. multiple wastes/multiple generators)? Yes No
- 4b. If yes to the above question, please provide clarification.

Special Waste Profile



VI. Certification

I hereby certify that to the best of my knowledge and belief, the information contained herein is a true, complete and accurate description of the waste material being offered for disposal and all known or suspected hazards have been disclosed. All Analytical Results/Material Safety Data Sheets submitted are truthful and complete and are representative of the waste.

I further certify that by utilizing this profile, neither myself nor any other employee of the company will deliver for disposal or attempt to deliver for disposal any waste which is classified as toxic waste, hazardous waste or infectious waste, or any other waste material this facility is prohibited from accepting by law. I shall immediately give written notice of any change or condition pertaining to the waste not provided herein. Our company hereby agrees to fully indemnify this disposal facility against any damages resulting from this certification being inaccurate or untrue.

I understand that attaching an electronic signature, I am signing this document, consent to complete this transaction and receive all related communication electronically, and agree this document will be binding as though I had physically signed it. A printout of this document may be accepted with the same authority as the original.

If electronic signature is preferred, please submit completed (unsigned) form to your Special Waste Coordinator or Special Waste Sales Executive to initiate signature process.

I further certify that the company has not altered the form or content of this profile sheet as provided by Republic Services.

Andrew Malsom Environmental Engineer

Wisconsin DOT

Authorized Representative Name (Printed) Title (Printed)

Company Name

February 3, 2020

Representative Signature

Date

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Chicago
2417 Bond Street
University Park, IL 60484
Tel: (708)534-5200

TestAmerica Job ID: 500-127625-1

Client Project/Site: STH 11 Kentucky to Kearney - 275788

For:
TRC Environmental Corporation.
150 N. Patrick Blvd.
Suite 180
Brookfield, Wisconsin 53045

Attn: Mr. Bryan Bergmann



Authorized for release by:
5/18/2017 2:51:46 PM

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.

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15
- 16



Table of Contents

Cover Page	1
Table of Contents	2
Case Narrative	3
Detection Summary	4
Method Summary	6
Sample Summary	7
Client Sample Results	8
Subcontract Data	30
Definitions	31
QC Association	32
Surrogate Summary	37
QC Sample Results	40
Chronicle	54
Certification Summary	63
Chain of Custody	64
Receipt Checklists	71

Case Narrative

Client: TRC Environmental Corporation.
Project/Site: STH 11 Kentucky to Kearney - 275788

TestAmerica Job ID: 500-127625-1

Job ID: 500-127625-1

Laboratory: TestAmerica Chicago

Narrative

Job Narrative 500-127625-1

Comments

No additional comments.

Receipt

The samples were received on 5/4/2017 10:20 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 4.9° C.

GC/MS VOA

Method(s) 8260B: The laboratory control sample (LCS) for batch 381094 recovered outside control limits for trichlorofluoromethane. This analyte was biased high in the LCS and was not detected in the associated samples: GP-30 (2-4) (500-127625-11), GP-30 (6-8) (500-127625-12), GP-30 (14-16) (500-127625-13), GP-31 (2-4) (500-127625-14), GP-31 (6-8) (500-127625-15), GP-32 (2-4) (500-127625-16), GP-32 (6-8) (500-127625-17), GP-32 (14-16) (500-127625-18), GP-33 (2-4) (500-127625-19), GP-33 (6-8) (500-127625-20) and Trip Blank (500-127625-21) ; therefore, the data has been reported.

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

GC/MS Semi VOA

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

GC VOA

Method(s) WI-GRO: The laboratory control sample (LCS) for preparation batch 490-428058 and analytical batch 490-429747 recovered outside control limits for the following analytes: C6-C10 WI. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

Method(s) WI-GRO: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate/sample duplicate (MS/MSD/DUP) associated with preparation batch 490-428058 and analytical batch 490-429747.

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

GC Semi VOA

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

Metals

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

General Chemistry

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

Subcontract non-Sister

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

Organic Prep

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

VOA Prep

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

Subcontract Work

Method % Chlorine: This method was subcontracted to SF/Eurofins Analytical Laboratories. The subcontract laboratory certification is different from that of the facility issuing the final report.

Detection Summary

Client: TRC Environmental Corporation.
Project/Site: STH 11 Kentucky to Kearney - 275788

TestAmerica Job ID: 500-127625-1

Client Sample ID: GP-26 (2-4)

Lab Sample ID: 500-127625-1

No Detections.

Client Sample ID: GP-26 (6-8)

Lab Sample ID: 500-127625-2

No Detections.

Client Sample ID: GP-27 (2-4)

Lab Sample ID: 500-127625-3

No Detections.

Client Sample ID: GP-27 (6-8)

Lab Sample ID: 500-127625-4

No Detections.

Client Sample ID: GP-28 (2-4)

Lab Sample ID: 500-127625-5

No Detections.

Client Sample ID: GP-28 (6-8)

Lab Sample ID: 500-127625-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	0.35	J	0.50	0.050	mg/L	1		6010B	TCLP
Cadmium	0.0022	J	0.0050	0.0020	mg/L	1		6010B	TCLP
Flashpoint	>176		40.0	40.0	Degrees F	1		1010	Total/NA
pH	8.9		0.2	0.2	SU	1		9045C	Total/NA
Paint Filter	PASS				No Unit	1		9095A	Total/NA
Specific Gravity	2.1848				NONE	1		SM 2710F	Total/NA

Client Sample ID: GP-28 (14-16)

Lab Sample ID: 500-127625-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Naphthalene	260	J	280	130	ug/Kg	1	☼	WDNR	Total/NA
1,3,5-Trimethylbenzene	19	J	28	17	ug/Kg	1	☼	WDNR	Total/NA

Client Sample ID: GP-29 (2-4)

Lab Sample ID: 500-127625-8

No Detections.

Client Sample ID: GP-29 (6-8)

Lab Sample ID: 500-127625-9

No Detections.

Client Sample ID: GP-29 (14-16)

Lab Sample ID: 500-127625-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Naphthalene	220	J	290	140	ug/Kg	1	☼	WDNR	Total/NA

Client Sample ID: GP-30 (2-4)

Lab Sample ID: 500-127625-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	710	F1	71	29	ug/Kg	50	☼	8260B	Total/NA
Trichloroethene	1100	F1	35	12	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: STH 11 Kentucky to Kearney - 275788

TestAmerica Job ID: 500-127625-1

Client Sample ID: GP-30 (6-8)

Lab Sample ID: 500-127625-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	29		18	10	ug/Kg	50	☼	8260B	Total/NA
Trichloroethene	380		36	12	ug/Kg	50	☼	8260B	Total/NA

Client Sample ID: GP-30 (14-16)

Lab Sample ID: 500-127625-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Trichloroethene	210		31	10	ug/Kg	50	☼	8260B	Total/NA

Client Sample ID: GP-31 (2-4)

Lab Sample ID: 500-127625-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Trichloroethene	81		34	11	ug/Kg	50	☼	8260B	Total/NA

Client Sample ID: GP-31 (6-8)

Lab Sample ID: 500-127625-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Trichloroethene	55		35	12	ug/Kg	50	☼	8260B	Total/NA

Client Sample ID: GP-32 (2-4)

Lab Sample ID: 500-127625-16

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	16		16	9.6	ug/Kg	50	☼	8260B	Total/NA

Client Sample ID: GP-32 (6-8)

Lab Sample ID: 500-127625-17

No Detections.

Client Sample ID: GP-32 (14-16)

Lab Sample ID: 500-127625-18

No Detections.

Client Sample ID: GP-33 (2-4)

Lab Sample ID: 500-127625-19

No Detections.

Client Sample ID: GP-33 (6-8)

Lab Sample ID: 500-127625-20

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Tetrachloroethene	5400		69	26	ug/Kg	50	☼	8260B	Total/NA
Trichloroethene	100		35	11	ug/Kg	50	☼	8260B	Total/NA

Client Sample ID: Trip Blank

Lab Sample ID: 500-127625-21

No Detections.

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Method Summary

Client: TRC Environmental Corporation.
Project/Site: STH 11 Kentucky to Kearney - 275788

TestAmerica Job ID: 500-127625-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL CHI
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	TAL CHI
WDNR	Wisconsin - Gasoline Range Organics (GC)	WI-GRO	TAL NSH
8082A	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	TAL CHI
WI-DRO	Wisconsin - Diesel Range Organics (GC)	WI-DRO	TAL CHI
6010B	Metals (ICP)	SW846	TAL CHI
7470A	Mercury (CVAA)	SW846	TAL CHI
1010	Ignitability, Pensky-Martens Closed-Cup Method	SW846	TAL CHI
9014	Cyanide	SW846	TAL CHI
9034	Sulfide, Acid soluble and Insoluble (Titrimetric)	SW846	TAL CHI
9045C	pH	SW846	TAL CHI
9095A	Paint Filter	SW846	TAL CHI
Moisture	Percent Moisture	EPA	TAL NSH
Moisture	Percent Moisture	EPA	TAL CHI
SM 2710F	Specific Gravity, Density	SM	TAL CHI
% Chlorine	General Sub Contract Method	NONE	SFAL

Protocol References:

EPA = US Environmental Protection Agency

NONE = NONE

SM = "Standard Methods For The Examination Of Water And Wastewater",

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

WI-DRO = "Modified DRO: Method For Determining Diesel Range Organics", Wisconsin DNR, Publ-SW-141, September, 1995.

WI-GRO = "Modified GRO: Method For Determining Gasoline Range Organics", Wisconsin DNR, Publ-SW-140, September, 1995.

Laboratory References:

SFAL = SF Analytical Laboratories, 2345 South 170th Street, New Berlin, WI 53151

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

TAL NSH = TestAmerica Nashville, 2960 Foster Creighton Drive, Nashville, TN 37204, TEL (615)726-0177

Sample Summary

Client: TRC Environmental Corporation.
Project/Site: STH 11 Kentucky to Kearney - 275788

TestAmerica Job ID: 500-127625-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-127625-1	GP-26 (2-4)	Solid	05/03/17 08:25	05/04/17 10:20
500-127625-2	GP-26 (6-8)	Solid	05/03/17 08:30	05/04/17 10:20
500-127625-3	GP-27 (2-4)	Solid	05/03/17 08:40	05/04/17 10:20
500-127625-4	GP-27 (6-8)	Solid	05/03/17 08:45	05/04/17 10:20
500-127625-5	GP-28 (2-4)	Solid	05/03/17 09:05	05/04/17 10:20
500-127625-6	GP-28 (6-8)	Solid	05/03/17 09:10	05/04/17 10:20
500-127625-7	GP-28 (14-16)	Solid	05/03/17 09:20	05/04/17 10:20
500-127625-8	GP-29 (2-4)	Solid	05/03/17 09:45	05/04/17 10:20
500-127625-9	GP-29 (6-8)	Solid	05/03/17 09:50	05/04/17 10:20
500-127625-10	GP-29 (14-16)	Solid	05/03/17 10:00	05/04/17 10:20
500-127625-11	GP-30 (2-4)	Solid	05/03/17 10:25	05/04/17 10:20
500-127625-12	GP-30 (6-8)	Solid	05/03/17 10:30	05/04/17 10:20
500-127625-13	GP-30 (14-16)	Solid	05/03/17 10:40	05/04/17 10:20
500-127625-14	GP-31 (2-4)	Solid	05/03/17 11:00	05/04/17 10:20
500-127625-15	GP-31 (6-8)	Solid	05/03/17 11:05	05/04/17 10:20
500-127625-16	GP-32 (2-4)	Solid	05/03/17 11:25	05/04/17 10:20
500-127625-17	GP-32 (6-8)	Solid	05/03/17 11:30	05/04/17 10:20
500-127625-18	GP-32 (14-16)	Solid	05/03/17 11:35	05/04/17 10:20
500-127625-19	GP-33 (2-4)	Solid	05/03/17 11:50	05/04/17 10:20
500-127625-20	GP-33 (6-8)	Solid	05/03/17 11:55	05/04/17 10:20
500-127625-21	Trip Blank	Solid	05/03/17 00:00	05/04/17 10:20

Client Sample Results

Client: TRC Environmental Corporation.
Project/Site: STH 11 Kentucky to Kearney - 275788

TestAmerica Job ID: 500-127625-1

Client Sample ID: GP-26 (2-4)

Date Collected: 05/03/17 08:25

Date Received: 05/04/17 10:20

Lab Sample ID: 500-127625-1

Matrix: Solid

Percent Solids: 84.3

Method: WDNR - Wisconsin - Gasoline Range Organics (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<21		29	21	ug/Kg	☼	05/07/17 11:20	05/13/17 12:44	1
Ethylbenzene	<22		29	22	ug/Kg	☼	05/07/17 11:20	05/13/17 12:44	1
Methyl tert-butyl ether	<14		29	14	ug/Kg	☼	05/07/17 11:20	05/13/17 12:44	1
Naphthalene	<140		290	140	ug/Kg	☼	05/07/17 11:20	05/13/17 12:44	1
Toluene	<20		29	20	ug/Kg	☼	05/07/17 11:20	05/13/17 12:44	1
1,2,4-Trimethylbenzene	<18		29	18	ug/Kg	☼	05/07/17 11:20	05/13/17 12:44	1
1,3,5-Trimethylbenzene	<18		29	18	ug/Kg	☼	05/07/17 11:20	05/13/17 12:44	1
Xylenes, Total	<35		88	35	ug/Kg	☼	05/07/17 11:20	05/13/17 12:44	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	84		80 - 120	05/07/17 11:20	05/13/17 12:44	1

Client Sample ID: GP-26 (6-8)

Date Collected: 05/03/17 08:30

Date Received: 05/04/17 10:20

Lab Sample ID: 500-127625-2

Matrix: Solid

Percent Solids: 86.3

Method: WDNR - Wisconsin - Gasoline Range Organics (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<21		30	21	ug/Kg	☼	05/07/17 11:20	05/13/17 13:11	1
Ethylbenzene	<22		30	22	ug/Kg	☼	05/07/17 11:20	05/13/17 13:11	1
Methyl tert-butyl ether	<14		30	14	ug/Kg	☼	05/07/17 11:20	05/13/17 13:11	1
Naphthalene	<140		300	140	ug/Kg	☼	05/07/17 11:20	05/13/17 13:11	1
Toluene	<20		30	20	ug/Kg	☼	05/07/17 11:20	05/13/17 13:11	1
1,2,4-Trimethylbenzene	<18		30	18	ug/Kg	☼	05/07/17 11:20	05/13/17 13:11	1
1,3,5-Trimethylbenzene	<18		30	18	ug/Kg	☼	05/07/17 11:20	05/13/17 13:11	1
Xylenes, Total	<35		89	35	ug/Kg	☼	05/07/17 11:20	05/13/17 13:11	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	86		80 - 120	05/07/17 11:20	05/13/17 13:11	1

Client Sample ID: GP-27 (2-4)

Date Collected: 05/03/17 08:40

Date Received: 05/04/17 10:20

Lab Sample ID: 500-127625-3

Matrix: Solid

Percent Solids: 76.1

Method: WDNR - Wisconsin - Gasoline Range Organics (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<24		34	24	ug/Kg	☼	05/07/17 11:20	05/13/17 13:37	1
Ethylbenzene	<26		34	26	ug/Kg	☼	05/07/17 11:20	05/13/17 13:37	1
Methyl tert-butyl ether	<16		34	16	ug/Kg	☼	05/07/17 11:20	05/13/17 13:37	1
Naphthalene	<160		340	160	ug/Kg	☼	05/07/17 11:20	05/13/17 13:37	1
Toluene	<23		34	23	ug/Kg	☼	05/07/17 11:20	05/13/17 13:37	1
1,2,4-Trimethylbenzene	<20		34	20	ug/Kg	☼	05/07/17 11:20	05/13/17 13:37	1
1,3,5-Trimethylbenzene	<20		34	20	ug/Kg	☼	05/07/17 11:20	05/13/17 13:37	1
Xylenes, Total	<41		100	41	ug/Kg	☼	05/07/17 11:20	05/13/17 13:37	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	87		80 - 120	05/07/17 11:20	05/13/17 13:37	1

TestAmerica Chicago

Client Sample Results

Client: TRC Environmental Corporation.
Project/Site: STH 11 Kentucky to Kearney - 275788

TestAmerica Job ID: 500-127625-1

Client Sample ID: GP-27 (6-8)

Date Collected: 05/03/17 08:45

Date Received: 05/04/17 10:20

Lab Sample ID: 500-127625-4

Matrix: Solid

Percent Solids: 86.6

Method: WDNR - Wisconsin - Gasoline Range Organics (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<21		29	21	ug/Kg	☼	05/07/17 11:20	05/13/17 14:04	1
Ethylbenzene	<22		29	22	ug/Kg	☼	05/07/17 11:20	05/13/17 14:04	1
Methyl tert-butyl ether	<14		29	14	ug/Kg	☼	05/07/17 11:20	05/13/17 14:04	1
Naphthalene	<140		290	140	ug/Kg	☼	05/07/17 11:20	05/13/17 14:04	1
Toluene	<20		29	20	ug/Kg	☼	05/07/17 11:20	05/13/17 14:04	1
1,2,4-Trimethylbenzene	<17		29	17	ug/Kg	☼	05/07/17 11:20	05/13/17 14:04	1
1,3,5-Trimethylbenzene	<17		29	17	ug/Kg	☼	05/07/17 11:20	05/13/17 14:04	1
Xylenes, Total	<35		86	35	ug/Kg	☼	05/07/17 11:20	05/13/17 14:04	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>a,a,a-Trifluorotoluene</i>	87		80 - 120	05/07/17 11:20	05/13/17 14:04	1

Client Sample ID: GP-28 (2-4)

Date Collected: 05/03/17 09:05

Date Received: 05/04/17 10:20

Lab Sample ID: 500-127625-5

Matrix: Solid

Percent Solids: 85.1

Method: WDNR - Wisconsin - Gasoline Range Organics (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<22		30	22	ug/Kg	☼	05/07/17 11:20	05/13/17 14:31	1
Ethylbenzene	<23		30	23	ug/Kg	☼	05/07/17 11:20	05/13/17 14:31	1
Methyl tert-butyl ether	<14		30	14	ug/Kg	☼	05/07/17 11:20	05/13/17 14:31	1
Naphthalene	<140		300	140	ug/Kg	☼	05/07/17 11:20	05/13/17 14:31	1
Toluene	<20		30	20	ug/Kg	☼	05/07/17 11:20	05/13/17 14:31	1
1,2,4-Trimethylbenzene	<18		30	18	ug/Kg	☼	05/07/17 11:20	05/13/17 14:31	1
1,3,5-Trimethylbenzene	<18		30	18	ug/Kg	☼	05/07/17 11:20	05/13/17 14:31	1
Xylenes, Total	<36		90	36	ug/Kg	☼	05/07/17 11:20	05/13/17 14:31	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>a,a,a-Trifluorotoluene</i>	87		80 - 120	05/07/17 11:20	05/13/17 14:31	1

Client Sample ID: GP-28 (6-8)

Date Collected: 05/03/17 09:10

Date Received: 05/04/17 10:20

Lab Sample ID: 500-127625-6

Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	<0.010		0.020	0.010	mg/L			05/09/17 03:19	20
1,2-Dichloroethane	<0.010		0.020	0.010	mg/L			05/09/17 03:19	20
Benzene	<0.010		0.020	0.010	mg/L			05/09/17 03:19	20
Carbon tetrachloride	<0.010		0.020	0.010	mg/L			05/09/17 03:19	20
Chlorobenzene	<0.010		0.020	0.010	mg/L			05/09/17 03:19	20
Chloroform	<0.020		0.040	0.020	mg/L			05/09/17 03:19	20
Methyl Ethyl Ketone	<0.050		0.10	0.050	mg/L			05/09/17 03:19	20
Tetrachloroethene	<0.010		0.020	0.010	mg/L			05/09/17 03:19	20
Trichloroethene	<0.010		0.020	0.010	mg/L			05/09/17 03:19	20
Vinyl chloride	<0.010		0.020	0.010	mg/L			05/09/17 03:19	20

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>1,2-Dichloroethane-d4 (Surr)</i>	98		75 - 126		05/09/17 03:19	20
<i>4-Bromofluorobenzene (Surr)</i>	111		72 - 124		05/09/17 03:19	20
<i>Dibromofluoromethane</i>	87		75 - 120		05/09/17 03:19	20

TestAmerica Chicago

Client Sample Results

Client: TRC Environmental Corporation.
Project/Site: STH 11 Kentucky to Kearney - 275788

TestAmerica Job ID: 500-127625-1

Client Sample ID: GP-28 (6-8)

Lab Sample ID: 500-127625-6

Date Collected: 05/03/17 09:10

Matrix: Solid

Date Received: 05/04/17 10:20

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	103		75 - 120		05/09/17 03:19	20

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	<0.020		0.020	0.020	mg/L		05/08/17 07:42	05/08/17 20:04	1
2,4,5-Trichlorophenol	<0.10		0.10	0.10	mg/L		05/08/17 07:42	05/08/17 20:04	1
2,4,6-Trichlorophenol	<0.050		0.050	0.050	mg/L		05/08/17 07:42	05/08/17 20:04	1
2,4-Dinitrotoluene	<0.010		0.010	0.010	mg/L		05/08/17 07:42	05/08/17 20:04	1
2-Methylphenol	<0.020		0.020	0.020	mg/L		05/08/17 07:42	05/08/17 20:04	1
3 & 4 Methylphenol	<0.020		0.020	0.020	mg/L		05/08/17 07:42	05/08/17 20:04	1
Hexachlorobenzene	<0.0050		0.0050	0.0050	mg/L		05/08/17 07:42	05/08/17 20:04	1
Hexachlorobutadiene	<0.050		0.050	0.050	mg/L		05/08/17 07:42	05/08/17 20:04	1
Hexachloroethane	<0.050		0.050	0.050	mg/L		05/08/17 07:42	05/08/17 20:04	1
Nitrobenzene	<0.010		0.010	0.010	mg/L		05/08/17 07:42	05/08/17 20:04	1
Pentachlorophenol	<0.20		0.20	0.20	mg/L		05/08/17 07:42	05/08/17 20:04	1
Pyridine	<0.20		0.20	0.20	mg/L		05/08/17 07:42	05/08/17 20:04	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	89		40 - 145	05/08/17 07:42	05/08/17 20:04	1
2-Fluorobiphenyl	85		34 - 110	05/08/17 07:42	05/08/17 20:04	1
2-Fluorophenol (Surr)	58		27 - 110	05/08/17 07:42	05/08/17 20:04	1
Nitrobenzene-d5 (Surr)	91		36 - 120	05/08/17 07:42	05/08/17 20:04	1
Phenol-d5 (Surr)	39		20 - 100	05/08/17 07:42	05/08/17 20:04	1
Terphenyl-d14 (Surr)	103		40 - 145	05/08/17 07:42	05/08/17 20:04	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.010		0.050	0.010	mg/L		05/08/17 08:10	05/08/17 22:34	1
Barium	0.35	J	0.50	0.050	mg/L		05/08/17 08:10	05/08/17 22:34	1
Cadmium	0.0022	J	0.0050	0.0020	mg/L		05/08/17 08:10	05/08/17 22:34	1
Chromium	<0.010		0.025	0.010	mg/L		05/08/17 08:10	05/08/17 22:34	1
Copper	<0.010		0.025	0.010	mg/L		05/08/17 08:10	05/08/17 22:34	1
Lead	<0.0075		0.050	0.0075	mg/L		05/08/17 08:10	05/08/17 22:34	1
Nickel	<0.010		0.025	0.010	mg/L		05/08/17 08:10	05/08/17 22:34	1
Selenium	<0.020		0.050	0.020	mg/L		05/08/17 08:10	05/08/17 22:34	1
Silver	<0.010		0.025	0.010	mg/L		05/08/17 08:10	05/08/17 22:34	1
Zinc	<0.020		0.10	0.020	mg/L		05/08/17 08:10	05/08/17 22:34	1

Method: 7470A - Mercury (CVAA) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		05/08/17 13:40	05/09/17 10:27	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Flashpoint	>176		40.0	40.0	Degrees F			05/15/17 18:15	1
Cyanide, Total	<0.17		0.49	0.17	mg/Kg		05/15/17 17:10	05/15/17 20:21	1
Sulfide	<4.7		9.9	4.7	mg/Kg		05/15/17 17:36	05/15/17 21:55	1
pH	8.9		0.2	0.2	SU			05/09/17 17:01	1
Paint Filter	PASS				No Unit			05/15/17 21:41	1
Specific Gravity	2.1848				NONE			05/12/17 22:24	1

TestAmerica Chicago

Client Sample Results

Client: TRC Environmental Corporation.
Project/Site: STH 11 Kentucky to Kearney - 275788

TestAmerica Job ID: 500-127625-1

Client Sample ID: GP-28 (6-8)

Date Collected: 05/03/17 09:10

Date Received: 05/04/17 10:20

Lab Sample ID: 500-127625-6

Matrix: Solid

Percent Solids: 86.1

Method: 8082A - 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	☼	05/11/17 18:50	05/12/17 13:06	1
PCB-1221	<8.3		19	8.3	ug/Kg	☼	05/11/17 18:50	05/12/17 13:06	1
PCB-1232	<8.2		19	8.2	ug/Kg	☼	05/11/17 18:50	05/12/17 13:06	1
PCB-1242	<6.2		19	6.2	ug/Kg	☼	05/11/17 18:50	05/12/17 13:06	1
PCB-1248	<7.4		19	7.4	ug/Kg	☼	05/11/17 18:50	05/12/17 13:06	1
PCB-1254	<4.0		19	4.0	ug/Kg	☼	05/11/17 18:50	05/12/17 13:06	1
PCB-1260	<9.2		19	9.2	ug/Kg	☼	05/11/17 18:50	05/12/17 13:06	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	77		49 - 129	05/11/17 18:50	05/12/17 13:06	1
DCB Decachlorobiphenyl	90		37 - 121	05/11/17 18:50	05/12/17 13:06	1

Client Sample ID: GP-28 (6-8)

Date Collected: 05/03/17 09:10

Date Received: 05/04/17 10:20

Lab Sample ID: 500-127625-6

Matrix: Solid

Percent Solids: 87.4

Method: WDNR - Wisconsin - Gasoline Range Organics (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trimethylbenzene	<18		30	18	ug/Kg	☼	05/07/17 11:20	05/13/17 14:58	1
1,3,5-Trimethylbenzene	<18		30	18	ug/Kg	☼	05/07/17 11:20	05/13/17 14:58	1
Benzene	<21		30	21	ug/Kg	☼	05/07/17 11:20	05/13/17 14:58	1
Ethylbenzene	<22		30	22	ug/Kg	☼	05/07/17 11:20	05/13/17 14:58	1
Methyl tert-butyl ether	<14		30	14	ug/Kg	☼	05/07/17 11:20	05/13/17 14:58	1
Naphthalene	<140		300	140	ug/Kg	☼	05/07/17 11:20	05/13/17 14:58	1
Toluene	<20		30	20	ug/Kg	☼	05/07/17 11:20	05/13/17 14:58	1
Xylenes, Total	<35		89	35	ug/Kg	☼	05/07/17 11:20	05/13/17 14:58	1
Wisconsin GRO	<3000 *		5900	3000	ug/Kg	☼	05/07/17 11:20	05/13/17 14:58	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	87		80 - 120	05/07/17 11:20	05/13/17 14:58	1
a,a,a-Trifluorotoluene	96		80 - 120	05/07/17 11:20	05/13/17 14:58	1

Method: WI-DRO - Wisconsin - Diesel Range Organics (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
WI Diesel Range Organics (C10-C28)	<1.8		4.5	1.8	mg/Kg	☼	05/10/17 10:11	05/10/17 16:46	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
n-Nonane	73		44 - 148	05/10/17 10:11	05/10/17 16:46	1

Client Sample ID: GP-28 (14-16)

Date Collected: 05/03/17 09:20

Date Received: 05/04/17 10:20

Lab Sample ID: 500-127625-7

Matrix: Solid

Percent Solids: 88.8

Method: WDNR - Wisconsin - Gasoline Range Organics (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<20		28	20	ug/Kg	☼	05/07/17 11:20	05/13/17 15:24	1
Ethylbenzene	<21		28	21	ug/Kg	☼	05/07/17 11:20	05/13/17 15:24	1
Methyl tert-butyl ether	<13		28	13	ug/Kg	☼	05/07/17 11:20	05/13/17 15:24	1
Naphthalene	260	J	280	130	ug/Kg	☼	05/07/17 11:20	05/13/17 15:24	1
Toluene	<19		28	19	ug/Kg	☼	05/07/17 11:20	05/13/17 15:24	1
1,2,4-Trimethylbenzene	<17		28	17	ug/Kg	☼	05/07/17 11:20	05/13/17 15:24	1

TestAmerica Chicago

Client Sample Results

Client: TRC Environmental Corporation.
Project/Site: STH 11 Kentucky to Kearney - 275788

TestAmerica Job ID: 500-127625-1

Client Sample ID: GP-28 (14-16)

Date Collected: 05/03/17 09:20

Date Received: 05/04/17 10:20

Lab Sample ID: 500-127625-7

Matrix: Solid

Percent Solids: 88.8

Method: WDNR - Wisconsin - Gasoline Range Organics (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3,5-Trimethylbenzene	19	J	28	17	ug/Kg	☼	05/07/17 11:20	05/13/17 15:24	1
Xylenes, Total	<33		83	33	ug/Kg	☼	05/07/17 11:20	05/13/17 15:24	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	86		80 - 120				05/07/17 11:20	05/13/17 15:24	1

Client Sample ID: GP-29 (2-4)

Date Collected: 05/03/17 09:45

Date Received: 05/04/17 10:20

Lab Sample ID: 500-127625-8

Matrix: Solid

Percent Solids: 87.4

Method: WDNR - Wisconsin - Gasoline Range Organics (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<21		29	21	ug/Kg	☼	05/07/17 11:20	05/13/17 15:51	1
Ethylbenzene	<22		29	22	ug/Kg	☼	05/07/17 11:20	05/13/17 15:51	1
Methyl tert-butyl ether	<14		29	14	ug/Kg	☼	05/07/17 11:20	05/13/17 15:51	1
Naphthalene	<140		290	140	ug/Kg	☼	05/07/17 11:20	05/13/17 15:51	1
Toluene	<20		29	20	ug/Kg	☼	05/07/17 11:20	05/13/17 15:51	1
1,2,4-Trimethylbenzene	<17		29	17	ug/Kg	☼	05/07/17 11:20	05/13/17 15:51	1
1,3,5-Trimethylbenzene	<17		29	17	ug/Kg	☼	05/07/17 11:20	05/13/17 15:51	1
Xylenes, Total	<35		87	35	ug/Kg	☼	05/07/17 11:20	05/13/17 15:51	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	87		80 - 120				05/07/17 11:20	05/13/17 15:51	1

Client Sample ID: GP-29 (6-8)

Date Collected: 05/03/17 09:50

Date Received: 05/04/17 10:20

Lab Sample ID: 500-127625-9

Matrix: Solid

Percent Solids: 85.7

Method: WDNR - Wisconsin - Gasoline Range Organics (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<20		28	20	ug/Kg	☼	05/07/17 11:20	05/13/17 16:18	1
Ethylbenzene	<21		28	21	ug/Kg	☼	05/07/17 11:20	05/13/17 16:18	1
Methyl tert-butyl ether	<14		28	14	ug/Kg	☼	05/07/17 11:20	05/13/17 16:18	1
Naphthalene	<140		280	140	ug/Kg	☼	05/07/17 11:20	05/13/17 16:18	1
Toluene	<19		28	19	ug/Kg	☼	05/07/17 11:20	05/13/17 16:18	1
1,2,4-Trimethylbenzene	<17		28	17	ug/Kg	☼	05/07/17 11:20	05/13/17 16:18	1
1,3,5-Trimethylbenzene	<17		28	17	ug/Kg	☼	05/07/17 11:20	05/13/17 16:18	1
Xylenes, Total	<34		85	34	ug/Kg	☼	05/07/17 11:20	05/13/17 16:18	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	87		80 - 120				05/07/17 11:20	05/13/17 16:18	1

Client Sample ID: GP-29 (14-16)

Date Collected: 05/03/17 10:00

Date Received: 05/04/17 10:20

Lab Sample ID: 500-127625-10

Matrix: Solid

Percent Solids: 87.8

Method: WDNR - Wisconsin - Gasoline Range Organics (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<21		29	21	ug/Kg	☼	05/07/17 11:20	05/13/17 16:45	1
Ethylbenzene	<22		29	22	ug/Kg	☼	05/07/17 11:20	05/13/17 16:45	1
Methyl tert-butyl ether	<14		29	14	ug/Kg	☼	05/07/17 11:20	05/13/17 16:45	1

TestAmerica Chicago

Client Sample Results

Client: TRC Environmental Corporation.
Project/Site: STH 11 Kentucky to Kearney - 275788

TestAmerica Job ID: 500-127625-1

Client Sample ID: GP-29 (14-16)

Lab Sample ID: 500-127625-10

Date Collected: 05/03/17 10:00

Matrix: Solid

Date Received: 05/04/17 10:20

Percent Solids: 87.8

Method: WDNR - Wisconsin - Gasoline Range Organics (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	220	J	290	140	ug/Kg	☼	05/07/17 11:20	05/13/17 16:45	1
Toluene	<19		29	19	ug/Kg	☼	05/07/17 11:20	05/13/17 16:45	1
1,2,4-Trimethylbenzene	<17		29	17	ug/Kg	☼	05/07/17 11:20	05/13/17 16:45	1
1,3,5-Trimethylbenzene	<17		29	17	ug/Kg	☼	05/07/17 11:20	05/13/17 16:45	1
Xylenes, Total	<34		86	34	ug/Kg	☼	05/07/17 11:20	05/13/17 16:45	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>a,a,a-Trifluorotoluene</i>	86		80 - 120				05/07/17 11:20	05/13/17 16:45	1

Client Sample ID: GP-30 (2-4)

Lab Sample ID: 500-127625-11

Date Collected: 05/03/17 10:25

Matrix: Solid

Date Received: 05/04/17 10:20

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	<33		71	33	ug/Kg	☼	05/03/17 10:25	05/17/17 11:21	50
1,1,1-Trichloroethane	<27		71	27	ug/Kg	☼	05/03/17 10:25	05/17/17 11:21	50
1,1,2,2-Tetrachloroethane	<28		71	28	ug/Kg	☼	05/03/17 10:25	05/17/17 11:21	50
1,1,2-Trichloroethane	<25		71	25	ug/Kg	☼	05/03/17 10:25	05/17/17 11:21	50
1,1-Dichloroethane	<29		71	29	ug/Kg	☼	05/03/17 10:25	05/17/17 11:21	50
1,1-Dichloroethene	<27		71	27	ug/Kg	☼	05/03/17 10:25	05/17/17 11:21	50
1,1-Dichloropropene	<21		71	21	ug/Kg	☼	05/03/17 10:25	05/17/17 11:21	50
1,2,3-Trichlorobenzene	<32		71	32	ug/Kg	☼	05/03/17 10:25	05/17/17 11:21	50
1,2,3-Trichloropropane	<29		71	29	ug/Kg	☼	05/03/17 10:25	05/17/17 11:21	50
1,2,4-Trichlorobenzene	<24		71	24	ug/Kg	☼	05/03/17 10:25	05/17/17 11:21	50
1,2,4-Trimethylbenzene	<25		71	25	ug/Kg	☼	05/03/17 10:25	05/17/17 11:21	50
1,2-Dibromo-3-Chloropropane	<140		350	140	ug/Kg	☼	05/03/17 10:25	05/17/17 11:21	50
1,2-Dibromoethane	<27		71	27	ug/Kg	☼	05/03/17 10:25	05/17/17 11:21	50
1,2-Dichlorobenzene	<24		71	24	ug/Kg	☼	05/03/17 10:25	05/17/17 11:21	50
1,2-Dichloroethane	<28		71	28	ug/Kg	☼	05/03/17 10:25	05/17/17 11:21	50
1,2-Dichloropropane	<30		71	30	ug/Kg	☼	05/03/17 10:25	05/17/17 11:21	50
1,3,5-Trimethylbenzene	<27		71	27	ug/Kg	☼	05/03/17 10:25	05/17/17 11:21	50
1,3-Dichlorobenzene	<28		71	28	ug/Kg	☼	05/03/17 10:25	05/17/17 11:21	50
1,3-Dichloropropane	<26		71	26	ug/Kg	☼	05/03/17 10:25	05/17/17 11:21	50
1,4-Dichlorobenzene	<26		71	26	ug/Kg	☼	05/03/17 10:25	05/17/17 11:21	50
2,2-Dichloropropane	<31		71	31	ug/Kg	☼	05/03/17 10:25	05/17/17 11:21	50
2-Chlorotoluene	<22		71	22	ug/Kg	☼	05/03/17 10:25	05/17/17 11:21	50
4-Chlorotoluene	<25		71	25	ug/Kg	☼	05/03/17 10:25	05/17/17 11:21	50
Benzene	<10		18	10	ug/Kg	☼	05/03/17 10:25	05/17/17 11:21	50
Bromobenzene	<25		71	25	ug/Kg	☼	05/03/17 10:25	05/17/17 11:21	50
Bromochloromethane	<30		71	30	ug/Kg	☼	05/03/17 10:25	05/17/17 11:21	50
Bromodichloromethane	<26		71	26	ug/Kg	☼	05/03/17 10:25	05/17/17 11:21	50
Bromoform	<34		71	34	ug/Kg	☼	05/03/17 10:25	05/17/17 11:21	50
Bromomethane	<56		140	56	ug/Kg	☼	05/03/17 10:25	05/17/17 11:21	50
Carbon tetrachloride	<27		71	27	ug/Kg	☼	05/03/17 10:25	05/17/17 11:21	50
Chlorobenzene	<27		71	27	ug/Kg	☼	05/03/17 10:25	05/17/17 11:21	50
Chloroethane	<36		71	36	ug/Kg	☼	05/03/17 10:25	05/17/17 11:21	50
Chloroform	<26		140	26	ug/Kg	☼	05/03/17 10:25	05/17/17 11:21	50
Chloromethane	<23		71	23	ug/Kg	☼	05/03/17 10:25	05/17/17 11:21	50
cis-1,2-Dichloroethene	710	F1	71	29	ug/Kg	☼	05/03/17 10:25	05/17/17 11:21	50

TestAmerica Chicago

Client Sample Results

Client: TRC Environmental Corporation.
Project/Site: STH 11 Kentucky to Kearney - 275788

TestAmerica Job ID: 500-127625-1

Client Sample ID: GP-30 (2-4)

Lab Sample ID: 500-127625-11

Date Collected: 05/03/17 10:25

Matrix: Solid

Date Received: 05/04/17 10:20

Percent Solids: 83.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,3-Dichloropropene	<29		71	29	ug/Kg	☼	05/03/17 10:25	05/17/17 11:21	50
Dibromochloromethane	<34		71	34	ug/Kg	☼	05/03/17 10:25	05/17/17 11:21	50
Dibromomethane	<19		71	19	ug/Kg	☼	05/03/17 10:25	05/17/17 11:21	50
Dichlorodifluoromethane	<48		140	48	ug/Kg	☼	05/03/17 10:25	05/17/17 11:21	50
Ethylbenzene	<13		18	13	ug/Kg	☼	05/03/17 10:25	05/17/17 11:21	50
Hexachlorobutadiene	<31		71	31	ug/Kg	☼	05/03/17 10:25	05/17/17 11:21	50
Isopropyl ether	<19		71	19	ug/Kg	☼	05/03/17 10:25	05/17/17 11:21	50
Isopropylbenzene	<27		71	27	ug/Kg	☼	05/03/17 10:25	05/17/17 11:21	50
Methyl tert-butyl ether	<28		71	28	ug/Kg	☼	05/03/17 10:25	05/17/17 11:21	50
Methylene Chloride	<110		350	110	ug/Kg	☼	05/03/17 10:25	05/17/17 11:21	50
Naphthalene	<24		71	24	ug/Kg	☼	05/03/17 10:25	05/17/17 11:21	50
n-Butylbenzene	<27		71	27	ug/Kg	☼	05/03/17 10:25	05/17/17 11:21	50
N-Propylbenzene	<29		71	29	ug/Kg	☼	05/03/17 10:25	05/17/17 11:21	50
p-Isopropyltoluene	<26		71	26	ug/Kg	☼	05/03/17 10:25	05/17/17 11:21	50
sec-Butylbenzene	<28		71	28	ug/Kg	☼	05/03/17 10:25	05/17/17 11:21	50
Styrene	<27		71	27	ug/Kg	☼	05/03/17 10:25	05/17/17 11:21	50
tert-Butylbenzene	<28		71	28	ug/Kg	☼	05/03/17 10:25	05/17/17 11:21	50
Tetrachloroethene	<26		71	26	ug/Kg	☼	05/03/17 10:25	05/17/17 11:21	50
Toluene	<10		18	10	ug/Kg	☼	05/03/17 10:25	05/17/17 11:21	50
trans-1,2-Dichloroethene	<25		71	25	ug/Kg	☼	05/03/17 10:25	05/17/17 11:21	50
trans-1,3-Dichloropropene	<26		71	26	ug/Kg	☼	05/03/17 10:25	05/17/17 11:21	50
Trichloroethene	1100	F1	35	12	ug/Kg	☼	05/03/17 10:25	05/17/17 11:21	50
Trichlorofluoromethane	<30	*	71	30	ug/Kg	☼	05/03/17 10:25	05/17/17 11:21	50
Vinyl chloride	<18		35	18	ug/Kg	☼	05/03/17 10:25	05/17/17 11:21	50
Xylenes, Total	<16		35	16	ug/Kg	☼	05/03/17 10:25	05/17/17 11:21	50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	112		75 - 126	05/03/17 10:25	05/17/17 11:21	50
4-Bromofluorobenzene (Surr)	111		72 - 124	05/03/17 10:25	05/17/17 11:21	50
Dibromofluoromethane	92		75 - 120	05/03/17 10:25	05/17/17 11:21	50
Toluene-d8 (Surr)	100		75 - 120	05/03/17 10:25	05/17/17 11:21	50

Client Sample ID: GP-30 (6-8)

Lab Sample ID: 500-127625-12

Date Collected: 05/03/17 10:30

Matrix: Solid

Date Received: 05/04/17 10:20

Percent Solids: 81.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<33		72	33	ug/Kg	☼	05/03/17 10:30	05/17/17 11:48	50
1,1,1-Trichloroethane	<27		72	27	ug/Kg	☼	05/03/17 10:30	05/17/17 11:48	50
1,1,1,2-Tetrachloroethane	<28		72	28	ug/Kg	☼	05/03/17 10:30	05/17/17 11:48	50
1,1,2-Trichloroethane	<25		72	25	ug/Kg	☼	05/03/17 10:30	05/17/17 11:48	50
1,1-Dichloroethane	<29		72	29	ug/Kg	☼	05/03/17 10:30	05/17/17 11:48	50
1,1-Dichloroethene	<28		72	28	ug/Kg	☼	05/03/17 10:30	05/17/17 11:48	50
1,1-Dichloropropene	<21		72	21	ug/Kg	☼	05/03/17 10:30	05/17/17 11:48	50
1,2,3-Trichlorobenzene	<33		72	33	ug/Kg	☼	05/03/17 10:30	05/17/17 11:48	50
1,2,3-Trichloropropane	<30		72	30	ug/Kg	☼	05/03/17 10:30	05/17/17 11:48	50
1,2,4-Trichlorobenzene	<24		72	24	ug/Kg	☼	05/03/17 10:30	05/17/17 11:48	50
1,2,4-Trimethylbenzene	<26		72	26	ug/Kg	☼	05/03/17 10:30	05/17/17 11:48	50
1,2-Dibromo-3-Chloropropane	<140		360	140	ug/Kg	☼	05/03/17 10:30	05/17/17 11:48	50

TestAmerica Chicago

Client Sample Results

Client: TRC Environmental Corporation.
 Project/Site: STH 11 Kentucky to Kearney - 275788

TestAmerica Job ID: 500-127625-1

Client Sample ID: GP-30 (6-8)

Lab Sample ID: 500-127625-12

Date Collected: 05/03/17 10:30

Matrix: Solid

Date Received: 05/04/17 10:20

Percent Solids: 81.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane	<28		72	28	ug/Kg	☼	05/03/17 10:30	05/17/17 11:48	50
1,2-Dichlorobenzene	<24		72	24	ug/Kg	☼	05/03/17 10:30	05/17/17 11:48	50
1,2-Dichloroethane	<28		72	28	ug/Kg	☼	05/03/17 10:30	05/17/17 11:48	50
1,2-Dichloropropane	<31		72	31	ug/Kg	☼	05/03/17 10:30	05/17/17 11:48	50
1,3,5-Trimethylbenzene	<27		72	27	ug/Kg	☼	05/03/17 10:30	05/17/17 11:48	50
1,3-Dichlorobenzene	<29		72	29	ug/Kg	☼	05/03/17 10:30	05/17/17 11:48	50
1,3-Dichloropropane	<26		72	26	ug/Kg	☼	05/03/17 10:30	05/17/17 11:48	50
1,4-Dichlorobenzene	<26		72	26	ug/Kg	☼	05/03/17 10:30	05/17/17 11:48	50
2,2-Dichloropropane	<32		72	32	ug/Kg	☼	05/03/17 10:30	05/17/17 11:48	50
2-Chlorotoluene	<22		72	22	ug/Kg	☼	05/03/17 10:30	05/17/17 11:48	50
4-Chlorotoluene	<25		72	25	ug/Kg	☼	05/03/17 10:30	05/17/17 11:48	50
Benzene	29		18	10	ug/Kg	☼	05/03/17 10:30	05/17/17 11:48	50
Bromobenzene	<25		72	25	ug/Kg	☼	05/03/17 10:30	05/17/17 11:48	50
Bromochloromethane	<31		72	31	ug/Kg	☼	05/03/17 10:30	05/17/17 11:48	50
Bromodichloromethane	<27		72	27	ug/Kg	☼	05/03/17 10:30	05/17/17 11:48	50
Bromoform	<35		72	35	ug/Kg	☼	05/03/17 10:30	05/17/17 11:48	50
Bromomethane	<57		140	57	ug/Kg	☼	05/03/17 10:30	05/17/17 11:48	50
Carbon tetrachloride	<27		72	27	ug/Kg	☼	05/03/17 10:30	05/17/17 11:48	50
Chlorobenzene	<28		72	28	ug/Kg	☼	05/03/17 10:30	05/17/17 11:48	50
Chloroethane	<36		72	36	ug/Kg	☼	05/03/17 10:30	05/17/17 11:48	50
Chloroform	<26		140	26	ug/Kg	☼	05/03/17 10:30	05/17/17 11:48	50
Chloromethane	<23		72	23	ug/Kg	☼	05/03/17 10:30	05/17/17 11:48	50
cis-1,2-Dichloroethene	<29		72	29	ug/Kg	☼	05/03/17 10:30	05/17/17 11:48	50
cis-1,3-Dichloropropene	<30		72	30	ug/Kg	☼	05/03/17 10:30	05/17/17 11:48	50
Dibromochloromethane	<35		72	35	ug/Kg	☼	05/03/17 10:30	05/17/17 11:48	50
Dibromomethane	<19		72	19	ug/Kg	☼	05/03/17 10:30	05/17/17 11:48	50
Dichlorodifluoromethane	<48		140	48	ug/Kg	☼	05/03/17 10:30	05/17/17 11:48	50
Ethylbenzene	<13		18	13	ug/Kg	☼	05/03/17 10:30	05/17/17 11:48	50
Hexachlorobutadiene	<32		72	32	ug/Kg	☼	05/03/17 10:30	05/17/17 11:48	50
Isopropyl ether	<20		72	20	ug/Kg	☼	05/03/17 10:30	05/17/17 11:48	50
Isopropylbenzene	<27		72	27	ug/Kg	☼	05/03/17 10:30	05/17/17 11:48	50
Methyl tert-butyl ether	<28		72	28	ug/Kg	☼	05/03/17 10:30	05/17/17 11:48	50
Methylene Chloride	<120		360	120	ug/Kg	☼	05/03/17 10:30	05/17/17 11:48	50
Naphthalene	<24		72	24	ug/Kg	☼	05/03/17 10:30	05/17/17 11:48	50
n-Butylbenzene	<28		72	28	ug/Kg	☼	05/03/17 10:30	05/17/17 11:48	50
N-Propylbenzene	<30		72	30	ug/Kg	☼	05/03/17 10:30	05/17/17 11:48	50
p-Isopropyltoluene	<26		72	26	ug/Kg	☼	05/03/17 10:30	05/17/17 11:48	50
sec-Butylbenzene	<28		72	28	ug/Kg	☼	05/03/17 10:30	05/17/17 11:48	50
Styrene	<28		72	28	ug/Kg	☼	05/03/17 10:30	05/17/17 11:48	50
tert-Butylbenzene	<28		72	28	ug/Kg	☼	05/03/17 10:30	05/17/17 11:48	50
Tetrachloroethene	<26		72	26	ug/Kg	☼	05/03/17 10:30	05/17/17 11:48	50
Toluene	<11		18	11	ug/Kg	☼	05/03/17 10:30	05/17/17 11:48	50
trans-1,2-Dichloroethene	<25		72	25	ug/Kg	☼	05/03/17 10:30	05/17/17 11:48	50
trans-1,3-Dichloropropene	<26		72	26	ug/Kg	☼	05/03/17 10:30	05/17/17 11:48	50
Trichloroethene	380		36	12	ug/Kg	☼	05/03/17 10:30	05/17/17 11:48	50
Trichlorofluoromethane	<31 *		72	31	ug/Kg	☼	05/03/17 10:30	05/17/17 11:48	50
Vinyl chloride	<19		36	19	ug/Kg	☼	05/03/17 10:30	05/17/17 11:48	50
Xylenes, Total	<16		36	16	ug/Kg	☼	05/03/17 10:30	05/17/17 11:48	50

TestAmerica Chicago

Client Sample Results

Client: TRC Environmental Corporation.
Project/Site: STH 11 Kentucky to Kearney - 275788

TestAmerica Job ID: 500-127625-1

Client Sample ID: GP-30 (6-8)

Date Collected: 05/03/17 10:30

Date Received: 05/04/17 10:20

Lab Sample ID: 500-127625-12

Matrix: Solid

Percent Solids: 81.6

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	115		75 - 126	05/03/17 10:30	05/17/17 11:48	50
4-Bromofluorobenzene (Surr)	115		72 - 124	05/03/17 10:30	05/17/17 11:48	50
Dibromofluoromethane	94		75 - 120	05/03/17 10:30	05/17/17 11:48	50
Toluene-d8 (Surr)	102		75 - 120	05/03/17 10:30	05/17/17 11:48	50

Client Sample ID: GP-30 (14-16)

Date Collected: 05/03/17 10:40

Date Received: 05/04/17 10:20

Lab Sample ID: 500-127625-13

Matrix: Solid

Percent Solids: 88.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<29		63	29	ug/Kg	☼	05/03/17 10:40	05/17/17 12:42	50
1,1,1-Trichloroethane	<24		63	24	ug/Kg	☼	05/03/17 10:40	05/17/17 12:42	50
1,1,2,2-Tetrachloroethane	<25		63	25	ug/Kg	☼	05/03/17 10:40	05/17/17 12:42	50
1,1,2-Trichloroethane	<22		63	22	ug/Kg	☼	05/03/17 10:40	05/17/17 12:42	50
1,1-Dichloroethane	<26		63	26	ug/Kg	☼	05/03/17 10:40	05/17/17 12:42	50
1,1-Dichloroethene	<25		63	25	ug/Kg	☼	05/03/17 10:40	05/17/17 12:42	50
1,1-Dichloropropene	<19		63	19	ug/Kg	☼	05/03/17 10:40	05/17/17 12:42	50
1,2,3-Trichlorobenzene	<29		63	29	ug/Kg	☼	05/03/17 10:40	05/17/17 12:42	50
1,2,3-Trichloropropane	<26		63	26	ug/Kg	☼	05/03/17 10:40	05/17/17 12:42	50
1,2,4-Trichlorobenzene	<22		63	22	ug/Kg	☼	05/03/17 10:40	05/17/17 12:42	50
1,2,4-Trimethylbenzene	<23		63	23	ug/Kg	☼	05/03/17 10:40	05/17/17 12:42	50
1,2-Dibromo-3-Chloropropane	<130		310	130	ug/Kg	☼	05/03/17 10:40	05/17/17 12:42	50
1,2-Dibromoethane	<24		63	24	ug/Kg	☼	05/03/17 10:40	05/17/17 12:42	50
1,2-Dichlorobenzene	<21		63	21	ug/Kg	☼	05/03/17 10:40	05/17/17 12:42	50
1,2-Dichloroethane	<25		63	25	ug/Kg	☼	05/03/17 10:40	05/17/17 12:42	50
1,2-Dichloropropane	<27		63	27	ug/Kg	☼	05/03/17 10:40	05/17/17 12:42	50
1,3,5-Trimethylbenzene	<24		63	24	ug/Kg	☼	05/03/17 10:40	05/17/17 12:42	50
1,3-Dichlorobenzene	<25		63	25	ug/Kg	☼	05/03/17 10:40	05/17/17 12:42	50
1,3-Dichloropropane	<23		63	23	ug/Kg	☼	05/03/17 10:40	05/17/17 12:42	50
1,4-Dichlorobenzene	<23		63	23	ug/Kg	☼	05/03/17 10:40	05/17/17 12:42	50
2,2-Dichloropropane	<28		63	28	ug/Kg	☼	05/03/17 10:40	05/17/17 12:42	50
2-Chlorotoluene	<20		63	20	ug/Kg	☼	05/03/17 10:40	05/17/17 12:42	50
4-Chlorotoluene	<22		63	22	ug/Kg	☼	05/03/17 10:40	05/17/17 12:42	50
Benzene	<9.2		16	9.2	ug/Kg	☼	05/03/17 10:40	05/17/17 12:42	50
Bromobenzene	<22		63	22	ug/Kg	☼	05/03/17 10:40	05/17/17 12:42	50
Bromochloromethane	<27		63	27	ug/Kg	☼	05/03/17 10:40	05/17/17 12:42	50
Bromodichloromethane	<23		63	23	ug/Kg	☼	05/03/17 10:40	05/17/17 12:42	50
Bromoform	<30		63	30	ug/Kg	☼	05/03/17 10:40	05/17/17 12:42	50
Bromomethane	<50		130	50	ug/Kg	☼	05/03/17 10:40	05/17/17 12:42	50
Carbon tetrachloride	<24		63	24	ug/Kg	☼	05/03/17 10:40	05/17/17 12:42	50
Chlorobenzene	<24		63	24	ug/Kg	☼	05/03/17 10:40	05/17/17 12:42	50
Chloroethane	<32		63	32	ug/Kg	☼	05/03/17 10:40	05/17/17 12:42	50
Chloroform	<23		130	23	ug/Kg	☼	05/03/17 10:40	05/17/17 12:42	50
Chloromethane	<20		63	20	ug/Kg	☼	05/03/17 10:40	05/17/17 12:42	50
cis-1,2-Dichloroethene	<26		63	26	ug/Kg	☼	05/03/17 10:40	05/17/17 12:42	50
cis-1,3-Dichloropropene	<26		63	26	ug/Kg	☼	05/03/17 10:40	05/17/17 12:42	50
Dibromochloromethane	<31		63	31	ug/Kg	☼	05/03/17 10:40	05/17/17 12:42	50
Dibromomethane	<17		63	17	ug/Kg	☼	05/03/17 10:40	05/17/17 12:42	50
Dichlorodifluoromethane	<42		130	42	ug/Kg	☼	05/03/17 10:40	05/17/17 12:42	50

TestAmerica Chicago

Client Sample Results

Client: TRC Environmental Corporation.
Project/Site: STH 11 Kentucky to Kearney - 275788

TestAmerica Job ID: 500-127625-1

Client Sample ID: GP-30 (14-16)

Date Collected: 05/03/17 10:40

Date Received: 05/04/17 10:20

Lab Sample ID: 500-127625-13

Matrix: Solid

Percent Solids: 88.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	<12		16	12	ug/Kg	☼	05/03/17 10:40	05/17/17 12:42	50
Hexachlorobutadiene	<28		63	28	ug/Kg	☼	05/03/17 10:40	05/17/17 12:42	50
Isopropyl ether	<17		63	17	ug/Kg	☼	05/03/17 10:40	05/17/17 12:42	50
Isopropylbenzene	<24		63	24	ug/Kg	☼	05/03/17 10:40	05/17/17 12:42	50
Methyl tert-butyl ether	<25		63	25	ug/Kg	☼	05/03/17 10:40	05/17/17 12:42	50
Methylene Chloride	<100		310	100	ug/Kg	☼	05/03/17 10:40	05/17/17 12:42	50
Naphthalene	<21		63	21	ug/Kg	☼	05/03/17 10:40	05/17/17 12:42	50
n-Butylbenzene	<24		63	24	ug/Kg	☼	05/03/17 10:40	05/17/17 12:42	50
N-Propylbenzene	<26		63	26	ug/Kg	☼	05/03/17 10:40	05/17/17 12:42	50
p-Isopropyltoluene	<23		63	23	ug/Kg	☼	05/03/17 10:40	05/17/17 12:42	50
sec-Butylbenzene	<25		63	25	ug/Kg	☼	05/03/17 10:40	05/17/17 12:42	50
Styrene	<24		63	24	ug/Kg	☼	05/03/17 10:40	05/17/17 12:42	50
tert-Butylbenzene	<25		63	25	ug/Kg	☼	05/03/17 10:40	05/17/17 12:42	50
Tetrachloroethene	<23		63	23	ug/Kg	☼	05/03/17 10:40	05/17/17 12:42	50
Toluene	<9.2		16	9.2	ug/Kg	☼	05/03/17 10:40	05/17/17 12:42	50
trans-1,2-Dichloroethene	<22		63	22	ug/Kg	☼	05/03/17 10:40	05/17/17 12:42	50
trans-1,3-Dichloropropene	<23		63	23	ug/Kg	☼	05/03/17 10:40	05/17/17 12:42	50
Trichloroethene	210		31	10	ug/Kg	☼	05/03/17 10:40	05/17/17 12:42	50
Trichlorofluoromethane	<27 *		63	27	ug/Kg	☼	05/03/17 10:40	05/17/17 12:42	50
Vinyl chloride	<16		31	16	ug/Kg	☼	05/03/17 10:40	05/17/17 12:42	50
Xylenes, Total	<14		31	14	ug/Kg	☼	05/03/17 10:40	05/17/17 12:42	50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	118		75 - 126	05/03/17 10:40	05/17/17 12:42	50
4-Bromofluorobenzene (Surr)	116		72 - 124	05/03/17 10:40	05/17/17 12:42	50
Dibromofluoromethane	97		75 - 120	05/03/17 10:40	05/17/17 12:42	50
Toluene-d8 (Surr)	101		75 - 120	05/03/17 10:40	05/17/17 12:42	50

Client Sample ID: GP-31 (2-4)

Date Collected: 05/03/17 11:00

Date Received: 05/04/17 10:20

Lab Sample ID: 500-127625-14

Matrix: Solid

Percent Solids: 83.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<32		69	32	ug/Kg	☼	05/03/17 11:00	05/17/17 13:09	50
1,1,1-Trichloroethane	<26		69	26	ug/Kg	☼	05/03/17 11:00	05/17/17 13:09	50
1,1,2,2-Tetrachloroethane	<27		69	27	ug/Kg	☼	05/03/17 11:00	05/17/17 13:09	50
1,1,2-Trichloroethane	<24		69	24	ug/Kg	☼	05/03/17 11:00	05/17/17 13:09	50
1,1-Dichloroethane	<28		69	28	ug/Kg	☼	05/03/17 11:00	05/17/17 13:09	50
1,1-Dichloroethene	<27		69	27	ug/Kg	☼	05/03/17 11:00	05/17/17 13:09	50
1,1-Dichloropropene	<20		69	20	ug/Kg	☼	05/03/17 11:00	05/17/17 13:09	50
1,2,3-Trichlorobenzene	<31		69	31	ug/Kg	☼	05/03/17 11:00	05/17/17 13:09	50
1,2,3-Trichloropropane	<28		69	28	ug/Kg	☼	05/03/17 11:00	05/17/17 13:09	50
1,2,4-Trichlorobenzene	<23		69	23	ug/Kg	☼	05/03/17 11:00	05/17/17 13:09	50
1,2,4-Trimethylbenzene	<25		69	25	ug/Kg	☼	05/03/17 11:00	05/17/17 13:09	50
1,2-Dibromo-3-Chloropropane	<140		340	140	ug/Kg	☼	05/03/17 11:00	05/17/17 13:09	50
1,2-Dibromoethane	<27		69	27	ug/Kg	☼	05/03/17 11:00	05/17/17 13:09	50
1,2-Dichlorobenzene	<23		69	23	ug/Kg	☼	05/03/17 11:00	05/17/17 13:09	50
1,2-Dichloroethane	<27		69	27	ug/Kg	☼	05/03/17 11:00	05/17/17 13:09	50
1,2-Dichloropropane	<29		69	29	ug/Kg	☼	05/03/17 11:00	05/17/17 13:09	50

TestAmerica Chicago

Client Sample Results

Client: TRC Environmental Corporation.
Project/Site: STH 11 Kentucky to Kearney - 275788

TestAmerica Job ID: 500-127625-1

Client Sample ID: GP-31 (2-4)

Lab Sample ID: 500-127625-14

Date Collected: 05/03/17 11:00

Matrix: Solid

Date Received: 05/04/17 10:20

Percent Solids: 83.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3,5-Trimethylbenzene	<26		69	26	ug/Kg	☼	05/03/17 11:00	05/17/17 13:09	50
1,3-Dichlorobenzene	<27		69	27	ug/Kg	☼	05/03/17 11:00	05/17/17 13:09	50
1,3-Dichloropropane	<25		69	25	ug/Kg	☼	05/03/17 11:00	05/17/17 13:09	50
1,4-Dichlorobenzene	<25		69	25	ug/Kg	☼	05/03/17 11:00	05/17/17 13:09	50
2,2-Dichloropropane	<30		69	30	ug/Kg	☼	05/03/17 11:00	05/17/17 13:09	50
2-Chlorotoluene	<22		69	22	ug/Kg	☼	05/03/17 11:00	05/17/17 13:09	50
4-Chlorotoluene	<24		69	24	ug/Kg	☼	05/03/17 11:00	05/17/17 13:09	50
Benzene	<10		17	10	ug/Kg	☼	05/03/17 11:00	05/17/17 13:09	50
Bromobenzene	<24		69	24	ug/Kg	☼	05/03/17 11:00	05/17/17 13:09	50
Bromochloromethane	<29		69	29	ug/Kg	☼	05/03/17 11:00	05/17/17 13:09	50
Bromodichloromethane	<26		69	26	ug/Kg	☼	05/03/17 11:00	05/17/17 13:09	50
Bromoform	<33		69	33	ug/Kg	☼	05/03/17 11:00	05/17/17 13:09	50
Bromomethane	<55		140	55	ug/Kg	☼	05/03/17 11:00	05/17/17 13:09	50
Carbon tetrachloride	<26		69	26	ug/Kg	☼	05/03/17 11:00	05/17/17 13:09	50
Chlorobenzene	<27		69	27	ug/Kg	☼	05/03/17 11:00	05/17/17 13:09	50
Chloroethane	<35		69	35	ug/Kg	☼	05/03/17 11:00	05/17/17 13:09	50
Chloroform	<25		140	25	ug/Kg	☼	05/03/17 11:00	05/17/17 13:09	50
Chloromethane	<22		69	22	ug/Kg	☼	05/03/17 11:00	05/17/17 13:09	50
cis-1,2-Dichloroethene	<28		69	28	ug/Kg	☼	05/03/17 11:00	05/17/17 13:09	50
cis-1,3-Dichloropropene	<29		69	29	ug/Kg	☼	05/03/17 11:00	05/17/17 13:09	50
Dibromochloromethane	<34		69	34	ug/Kg	☼	05/03/17 11:00	05/17/17 13:09	50
Dibromomethane	<19		69	19	ug/Kg	☼	05/03/17 11:00	05/17/17 13:09	50
Dichlorodifluoromethane	<46		140	46	ug/Kg	☼	05/03/17 11:00	05/17/17 13:09	50
Ethylbenzene	<13		17	13	ug/Kg	☼	05/03/17 11:00	05/17/17 13:09	50
Hexachlorobutadiene	<31		69	31	ug/Kg	☼	05/03/17 11:00	05/17/17 13:09	50
Isopropyl ether	<19		69	19	ug/Kg	☼	05/03/17 11:00	05/17/17 13:09	50
Isopropylbenzene	<26		69	26	ug/Kg	☼	05/03/17 11:00	05/17/17 13:09	50
Methyl tert-butyl ether	<27		69	27	ug/Kg	☼	05/03/17 11:00	05/17/17 13:09	50
Methylene Chloride	<110		340	110	ug/Kg	☼	05/03/17 11:00	05/17/17 13:09	50
Naphthalene	<23		69	23	ug/Kg	☼	05/03/17 11:00	05/17/17 13:09	50
n-Butylbenzene	<27		69	27	ug/Kg	☼	05/03/17 11:00	05/17/17 13:09	50
N-Propylbenzene	<28		69	28	ug/Kg	☼	05/03/17 11:00	05/17/17 13:09	50
p-Isopropyltoluene	<25		69	25	ug/Kg	☼	05/03/17 11:00	05/17/17 13:09	50
sec-Butylbenzene	<27		69	27	ug/Kg	☼	05/03/17 11:00	05/17/17 13:09	50
Styrene	<27		69	27	ug/Kg	☼	05/03/17 11:00	05/17/17 13:09	50
tert-Butylbenzene	<27		69	27	ug/Kg	☼	05/03/17 11:00	05/17/17 13:09	50
Tetrachloroethene	<25		69	25	ug/Kg	☼	05/03/17 11:00	05/17/17 13:09	50
Toluene	<10		17	10	ug/Kg	☼	05/03/17 11:00	05/17/17 13:09	50
trans-1,2-Dichloroethene	<24		69	24	ug/Kg	☼	05/03/17 11:00	05/17/17 13:09	50
trans-1,3-Dichloropropene	<25		69	25	ug/Kg	☼	05/03/17 11:00	05/17/17 13:09	50
Trichloroethene	81		34	11	ug/Kg	☼	05/03/17 11:00	05/17/17 13:09	50
Trichlorofluoromethane	<29 *		69	29	ug/Kg	☼	05/03/17 11:00	05/17/17 13:09	50
Vinyl chloride	<18		34	18	ug/Kg	☼	05/03/17 11:00	05/17/17 13:09	50
Xylenes, Total	<15		34	15	ug/Kg	☼	05/03/17 11:00	05/17/17 13:09	50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	114		75 - 126	05/03/17 11:00	05/17/17 13:09	50
4-Bromofluorobenzene (Surr)	113		72 - 124	05/03/17 11:00	05/17/17 13:09	50
Dibromofluoromethane	93		75 - 120	05/03/17 11:00	05/17/17 13:09	50
Toluene-d8 (Surr)	99		75 - 120	05/03/17 11:00	05/17/17 13:09	50

TestAmerica Chicago

Client Sample Results

Client: TRC Environmental Corporation.
 Project/Site: STH 11 Kentucky to Kearney - 275788

TestAmerica Job ID: 500-127625-1

Client Sample ID: GP-31 (6-8)

Lab Sample ID: 500-127625-15

Date Collected: 05/03/17 11:05

Matrix: Solid

Date Received: 05/04/17 10:20

Percent Solids: 82.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<33		71	33	ug/Kg	☼	05/03/17 11:05	05/17/17 13:35	50
1,1,1-Trichloroethane	<27		71	27	ug/Kg	☼	05/03/17 11:05	05/17/17 13:35	50
1,1,1,2,2-Tetrachloroethane	<28		71	28	ug/Kg	☼	05/03/17 11:05	05/17/17 13:35	50
1,1,2-Trichloroethane	<25		71	25	ug/Kg	☼	05/03/17 11:05	05/17/17 13:35	50
1,1-Dichloroethane	<29		71	29	ug/Kg	☼	05/03/17 11:05	05/17/17 13:35	50
1,1-Dichloroethene	<28		71	28	ug/Kg	☼	05/03/17 11:05	05/17/17 13:35	50
1,1-Dichloropropene	<21		71	21	ug/Kg	☼	05/03/17 11:05	05/17/17 13:35	50
1,2,3-Trichlorobenzene	<32		71	32	ug/Kg	☼	05/03/17 11:05	05/17/17 13:35	50
1,2,3-Trichloropropane	<29		71	29	ug/Kg	☼	05/03/17 11:05	05/17/17 13:35	50
1,2,4-Trichlorobenzene	<24		71	24	ug/Kg	☼	05/03/17 11:05	05/17/17 13:35	50
1,2,4-Trimethylbenzene	<25		71	25	ug/Kg	☼	05/03/17 11:05	05/17/17 13:35	50
1,2-Dibromo-3-Chloropropane	<140		350	140	ug/Kg	☼	05/03/17 11:05	05/17/17 13:35	50
1,2-Dibromoethane	<27		71	27	ug/Kg	☼	05/03/17 11:05	05/17/17 13:35	50
1,2-Dichlorobenzene	<24		71	24	ug/Kg	☼	05/03/17 11:05	05/17/17 13:35	50
1,2-Dichloroethane	<28		71	28	ug/Kg	☼	05/03/17 11:05	05/17/17 13:35	50
1,2-Dichloropropane	<30		71	30	ug/Kg	☼	05/03/17 11:05	05/17/17 13:35	50
1,3,5-Trimethylbenzene	<27		71	27	ug/Kg	☼	05/03/17 11:05	05/17/17 13:35	50
1,3-Dichlorobenzene	<28		71	28	ug/Kg	☼	05/03/17 11:05	05/17/17 13:35	50
1,3-Dichloropropane	<26		71	26	ug/Kg	☼	05/03/17 11:05	05/17/17 13:35	50
1,4-Dichlorobenzene	<26		71	26	ug/Kg	☼	05/03/17 11:05	05/17/17 13:35	50
2,2-Dichloropropane	<31		71	31	ug/Kg	☼	05/03/17 11:05	05/17/17 13:35	50
2-Chlorotoluene	<22		71	22	ug/Kg	☼	05/03/17 11:05	05/17/17 13:35	50
4-Chlorotoluene	<25		71	25	ug/Kg	☼	05/03/17 11:05	05/17/17 13:35	50
Benzene	<10		18	10	ug/Kg	☼	05/03/17 11:05	05/17/17 13:35	50
Bromobenzene	<25		71	25	ug/Kg	☼	05/03/17 11:05	05/17/17 13:35	50
Bromochloromethane	<30		71	30	ug/Kg	☼	05/03/17 11:05	05/17/17 13:35	50
Bromodichloromethane	<26		71	26	ug/Kg	☼	05/03/17 11:05	05/17/17 13:35	50
Bromoform	<34		71	34	ug/Kg	☼	05/03/17 11:05	05/17/17 13:35	50
Bromomethane	<56		140	56	ug/Kg	☼	05/03/17 11:05	05/17/17 13:35	50
Carbon tetrachloride	<27		71	27	ug/Kg	☼	05/03/17 11:05	05/17/17 13:35	50
Chlorobenzene	<27		71	27	ug/Kg	☼	05/03/17 11:05	05/17/17 13:35	50
Chloroethane	<36		71	36	ug/Kg	☼	05/03/17 11:05	05/17/17 13:35	50
Chloroform	<26		140	26	ug/Kg	☼	05/03/17 11:05	05/17/17 13:35	50
Chloromethane	<23		71	23	ug/Kg	☼	05/03/17 11:05	05/17/17 13:35	50
cis-1,2-Dichloroethene	<29		71	29	ug/Kg	☼	05/03/17 11:05	05/17/17 13:35	50
cis-1,3-Dichloropropene	<29		71	29	ug/Kg	☼	05/03/17 11:05	05/17/17 13:35	50
Dibromochloromethane	<35		71	35	ug/Kg	☼	05/03/17 11:05	05/17/17 13:35	50
Dibromomethane	<19		71	19	ug/Kg	☼	05/03/17 11:05	05/17/17 13:35	50
Dichlorodifluoromethane	<48		140	48	ug/Kg	☼	05/03/17 11:05	05/17/17 13:35	50
Ethylbenzene	<13		18	13	ug/Kg	☼	05/03/17 11:05	05/17/17 13:35	50
Hexachlorobutadiene	<32		71	32	ug/Kg	☼	05/03/17 11:05	05/17/17 13:35	50
Isopropyl ether	<20		71	20	ug/Kg	☼	05/03/17 11:05	05/17/17 13:35	50
Isopropylbenzene	<27		71	27	ug/Kg	☼	05/03/17 11:05	05/17/17 13:35	50
Methyl tert-butyl ether	<28		71	28	ug/Kg	☼	05/03/17 11:05	05/17/17 13:35	50
Methylene Chloride	<120		350	120	ug/Kg	☼	05/03/17 11:05	05/17/17 13:35	50
Naphthalene	<24		71	24	ug/Kg	☼	05/03/17 11:05	05/17/17 13:35	50
n-Butylbenzene	<27		71	27	ug/Kg	☼	05/03/17 11:05	05/17/17 13:35	50
N-Propylbenzene	<29		71	29	ug/Kg	☼	05/03/17 11:05	05/17/17 13:35	50
p-Isopropyltoluene	<26		71	26	ug/Kg	☼	05/03/17 11:05	05/17/17 13:35	50

TestAmerica Chicago

Client Sample Results

Client: TRC Environmental Corporation.
Project/Site: STH 11 Kentucky to Kearney - 275788

TestAmerica Job ID: 500-127625-1

Client Sample ID: GP-31 (6-8)

Date Collected: 05/03/17 11:05

Date Received: 05/04/17 10:20

Lab Sample ID: 500-127625-15

Matrix: Solid

Percent Solids: 82.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	<28		71	28	ug/Kg	☼	05/03/17 11:05	05/17/17 13:35	50
Styrene	<27		71	27	ug/Kg	☼	05/03/17 11:05	05/17/17 13:35	50
tert-Butylbenzene	<28		71	28	ug/Kg	☼	05/03/17 11:05	05/17/17 13:35	50
Tetrachloroethene	<26		71	26	ug/Kg	☼	05/03/17 11:05	05/17/17 13:35	50
Toluene	<10		18	10	ug/Kg	☼	05/03/17 11:05	05/17/17 13:35	50
trans-1,2-Dichloroethene	<25		71	25	ug/Kg	☼	05/03/17 11:05	05/17/17 13:35	50
trans-1,3-Dichloropropene	<26		71	26	ug/Kg	☼	05/03/17 11:05	05/17/17 13:35	50
Trichloroethene	55		35	12	ug/Kg	☼	05/03/17 11:05	05/17/17 13:35	50
Trichlorofluoromethane	<30 *		71	30	ug/Kg	☼	05/03/17 11:05	05/17/17 13:35	50
Vinyl chloride	<19		35	19	ug/Kg	☼	05/03/17 11:05	05/17/17 13:35	50
Xylenes, Total	<16		35	16	ug/Kg	☼	05/03/17 11:05	05/17/17 13:35	50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	115		75 - 126	05/03/17 11:05	05/17/17 13:35	50
4-Bromofluorobenzene (Surr)	115		72 - 124	05/03/17 11:05	05/17/17 13:35	50
Dibromofluoromethane	95		75 - 120	05/03/17 11:05	05/17/17 13:35	50
Toluene-d8 (Surr)	101		75 - 120	05/03/17 11:05	05/17/17 13:35	50

Client Sample ID: GP-32 (2-4)

Date Collected: 05/03/17 11:25

Date Received: 05/04/17 10:20

Lab Sample ID: 500-127625-16

Matrix: Solid

Percent Solids: 86.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<30		65	30	ug/Kg	☼	05/03/17 11:25	05/17/17 14:02	50
1,1,1-Trichloroethane	<25		65	25	ug/Kg	☼	05/03/17 11:25	05/17/17 14:02	50
1,1,2,2-Tetrachloroethane	<26		65	26	ug/Kg	☼	05/03/17 11:25	05/17/17 14:02	50
1,1,2-Trichloroethane	<23		65	23	ug/Kg	☼	05/03/17 11:25	05/17/17 14:02	50
1,1-Dichloroethane	<27		65	27	ug/Kg	☼	05/03/17 11:25	05/17/17 14:02	50
1,1-Dichloroethene	<26		65	26	ug/Kg	☼	05/03/17 11:25	05/17/17 14:02	50
1,1-Dichloropropene	<20		65	20	ug/Kg	☼	05/03/17 11:25	05/17/17 14:02	50
1,2,3-Trichlorobenzene	<30		65	30	ug/Kg	☼	05/03/17 11:25	05/17/17 14:02	50
1,2,3-Trichloropropane	<27		65	27	ug/Kg	☼	05/03/17 11:25	05/17/17 14:02	50
1,2,4-Trichlorobenzene	<22		65	22	ug/Kg	☼	05/03/17 11:25	05/17/17 14:02	50
1,2,4-Trimethylbenzene	<23		65	23	ug/Kg	☼	05/03/17 11:25	05/17/17 14:02	50
1,2-Dibromo-3-Chloropropane	<130		330	130	ug/Kg	☼	05/03/17 11:25	05/17/17 14:02	50
1,2-Dibromoethane	<25		65	25	ug/Kg	☼	05/03/17 11:25	05/17/17 14:02	50
1,2-Dichlorobenzene	<22		65	22	ug/Kg	☼	05/03/17 11:25	05/17/17 14:02	50
1,2-Dichloroethane	<26		65	26	ug/Kg	☼	05/03/17 11:25	05/17/17 14:02	50
1,2-Dichloropropane	<28		65	28	ug/Kg	☼	05/03/17 11:25	05/17/17 14:02	50
1,3,5-Trimethylbenzene	<25		65	25	ug/Kg	☼	05/03/17 11:25	05/17/17 14:02	50
1,3-Dichlorobenzene	<26		65	26	ug/Kg	☼	05/03/17 11:25	05/17/17 14:02	50
1,3-Dichloropropane	<24		65	24	ug/Kg	☼	05/03/17 11:25	05/17/17 14:02	50
1,4-Dichlorobenzene	<24		65	24	ug/Kg	☼	05/03/17 11:25	05/17/17 14:02	50
2,2-Dichloropropane	<29		65	29	ug/Kg	☼	05/03/17 11:25	05/17/17 14:02	50
2-Chlorotoluene	<21		65	21	ug/Kg	☼	05/03/17 11:25	05/17/17 14:02	50
4-Chlorotoluene	<23		65	23	ug/Kg	☼	05/03/17 11:25	05/17/17 14:02	50
Benzene	16		16	9.6	ug/Kg	☼	05/03/17 11:25	05/17/17 14:02	50
Bromobenzene	<23		65	23	ug/Kg	☼	05/03/17 11:25	05/17/17 14:02	50
Bromochloromethane	<28		65	28	ug/Kg	☼	05/03/17 11:25	05/17/17 14:02	50

TestAmerica Chicago

Client Sample Results

Client: TRC Environmental Corporation.
Project/Site: STH 11 Kentucky to Kearney - 275788

TestAmerica Job ID: 500-127625-1

Client Sample ID: GP-32 (2-4)

Lab Sample ID: 500-127625-16

Date Collected: 05/03/17 11:25

Matrix: Solid

Date Received: 05/04/17 10:20

Percent Solids: 86.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromodichloromethane	<24		65	24	ug/Kg	☼	05/03/17 11:25	05/17/17 14:02	50
Bromoform	<32		65	32	ug/Kg	☼	05/03/17 11:25	05/17/17 14:02	50
Bromomethane	<52		130	52	ug/Kg	☼	05/03/17 11:25	05/17/17 14:02	50
Carbon tetrachloride	<25		65	25	ug/Kg	☼	05/03/17 11:25	05/17/17 14:02	50
Chlorobenzene	<25		65	25	ug/Kg	☼	05/03/17 11:25	05/17/17 14:02	50
Chloroethane	<33		65	33	ug/Kg	☼	05/03/17 11:25	05/17/17 14:02	50
Chloroform	<24		130	24	ug/Kg	☼	05/03/17 11:25	05/17/17 14:02	50
Chloromethane	<21		65	21	ug/Kg	☼	05/03/17 11:25	05/17/17 14:02	50
cis-1,2-Dichloroethene	<27		65	27	ug/Kg	☼	05/03/17 11:25	05/17/17 14:02	50
cis-1,3-Dichloropropene	<27		65	27	ug/Kg	☼	05/03/17 11:25	05/17/17 14:02	50
Dibromochloromethane	<32		65	32	ug/Kg	☼	05/03/17 11:25	05/17/17 14:02	50
Dibromomethane	<18		65	18	ug/Kg	☼	05/03/17 11:25	05/17/17 14:02	50
Dichlorodifluoromethane	<44		130	44	ug/Kg	☼	05/03/17 11:25	05/17/17 14:02	50
Ethylbenzene	<12		16	12	ug/Kg	☼	05/03/17 11:25	05/17/17 14:02	50
Hexachlorobutadiene	<29		65	29	ug/Kg	☼	05/03/17 11:25	05/17/17 14:02	50
Isopropyl ether	<18		65	18	ug/Kg	☼	05/03/17 11:25	05/17/17 14:02	50
Isopropylbenzene	<25		65	25	ug/Kg	☼	05/03/17 11:25	05/17/17 14:02	50
Methyl tert-butyl ether	<26		65	26	ug/Kg	☼	05/03/17 11:25	05/17/17 14:02	50
Methylene Chloride	<110		330	110	ug/Kg	☼	05/03/17 11:25	05/17/17 14:02	50
Naphthalene	<22		65	22	ug/Kg	☼	05/03/17 11:25	05/17/17 14:02	50
n-Butylbenzene	<25		65	25	ug/Kg	☼	05/03/17 11:25	05/17/17 14:02	50
N-Propylbenzene	<27		65	27	ug/Kg	☼	05/03/17 11:25	05/17/17 14:02	50
p-Isopropyltoluene	<24		65	24	ug/Kg	☼	05/03/17 11:25	05/17/17 14:02	50
sec-Butylbenzene	<26		65	26	ug/Kg	☼	05/03/17 11:25	05/17/17 14:02	50
Styrene	<25		65	25	ug/Kg	☼	05/03/17 11:25	05/17/17 14:02	50
tert-Butylbenzene	<26		65	26	ug/Kg	☼	05/03/17 11:25	05/17/17 14:02	50
Tetrachloroethene	<24		65	24	ug/Kg	☼	05/03/17 11:25	05/17/17 14:02	50
Toluene	<9.6		16	9.6	ug/Kg	☼	05/03/17 11:25	05/17/17 14:02	50
trans-1,2-Dichloroethene	<23		65	23	ug/Kg	☼	05/03/17 11:25	05/17/17 14:02	50
trans-1,3-Dichloropropene	<24		65	24	ug/Kg	☼	05/03/17 11:25	05/17/17 14:02	50
Trichloroethene	<11		33	11	ug/Kg	☼	05/03/17 11:25	05/17/17 14:02	50
Trichlorofluoromethane	<28 *		65	28	ug/Kg	☼	05/03/17 11:25	05/17/17 14:02	50
Vinyl chloride	<17		33	17	ug/Kg	☼	05/03/17 11:25	05/17/17 14:02	50
Xylenes, Total	<14		33	14	ug/Kg	☼	05/03/17 11:25	05/17/17 14:02	50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	115		75 - 126	05/03/17 11:25	05/17/17 14:02	50
4-Bromofluorobenzene (Surr)	116		72 - 124	05/03/17 11:25	05/17/17 14:02	50
Dibromofluoromethane	94		75 - 120	05/03/17 11:25	05/17/17 14:02	50
Toluene-d8 (Surr)	100		75 - 120	05/03/17 11:25	05/17/17 14:02	50

Client Sample ID: GP-32 (6-8)

Lab Sample ID: 500-127625-17

Date Collected: 05/03/17 11:30

Matrix: Solid

Date Received: 05/04/17 10:20

Percent Solids: 82.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<33		71	33	ug/Kg	☼	05/03/17 11:30	05/17/17 14:29	50
1,1,1-Trichloroethane	<27		71	27	ug/Kg	☼	05/03/17 11:30	05/17/17 14:29	50
1,1,2,2-Tetrachloroethane	<28		71	28	ug/Kg	☼	05/03/17 11:30	05/17/17 14:29	50

TestAmerica Chicago

Client Sample Results

Client: TRC Environmental Corporation.
Project/Site: STH 11 Kentucky to Kearney - 275788

TestAmerica Job ID: 500-127625-1

Client Sample ID: GP-32 (6-8)

Lab Sample ID: 500-127625-17

Date Collected: 05/03/17 11:30

Matrix: Solid

Date Received: 05/04/17 10:20

Percent Solids: 82.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichloroethane	<25		71	25	ug/Kg	☼	05/03/17 11:30	05/17/17 14:29	50
1,1-Dichloroethane	<29		71	29	ug/Kg	☼	05/03/17 11:30	05/17/17 14:29	50
1,1-Dichloroethene	<28		71	28	ug/Kg	☼	05/03/17 11:30	05/17/17 14:29	50
1,1-Dichloropropene	<21		71	21	ug/Kg	☼	05/03/17 11:30	05/17/17 14:29	50
1,2,3-Trichlorobenzene	<32		71	32	ug/Kg	☼	05/03/17 11:30	05/17/17 14:29	50
1,2,3-Trichloropropane	<29		71	29	ug/Kg	☼	05/03/17 11:30	05/17/17 14:29	50
1,2,4-Trichlorobenzene	<24		71	24	ug/Kg	☼	05/03/17 11:30	05/17/17 14:29	50
1,2,4-Trimethylbenzene	<25		71	25	ug/Kg	☼	05/03/17 11:30	05/17/17 14:29	50
1,2-Dibromo-3-Chloropropane	<140		350	140	ug/Kg	☼	05/03/17 11:30	05/17/17 14:29	50
1,2-Dibromoethane	<27		71	27	ug/Kg	☼	05/03/17 11:30	05/17/17 14:29	50
1,2-Dichlorobenzene	<24		71	24	ug/Kg	☼	05/03/17 11:30	05/17/17 14:29	50
1,2-Dichloroethane	<28		71	28	ug/Kg	☼	05/03/17 11:30	05/17/17 14:29	50
1,2-Dichloropropane	<30		71	30	ug/Kg	☼	05/03/17 11:30	05/17/17 14:29	50
1,3,5-Trimethylbenzene	<27		71	27	ug/Kg	☼	05/03/17 11:30	05/17/17 14:29	50
1,3-Dichlorobenzene	<28		71	28	ug/Kg	☼	05/03/17 11:30	05/17/17 14:29	50
1,3-Dichloropropane	<26		71	26	ug/Kg	☼	05/03/17 11:30	05/17/17 14:29	50
1,4-Dichlorobenzene	<26		71	26	ug/Kg	☼	05/03/17 11:30	05/17/17 14:29	50
2,2-Dichloropropane	<31		71	31	ug/Kg	☼	05/03/17 11:30	05/17/17 14:29	50
2-Chlorotoluene	<22		71	22	ug/Kg	☼	05/03/17 11:30	05/17/17 14:29	50
4-Chlorotoluene	<25		71	25	ug/Kg	☼	05/03/17 11:30	05/17/17 14:29	50
Benzene	<10		18	10	ug/Kg	☼	05/03/17 11:30	05/17/17 14:29	50
Bromobenzene	<25		71	25	ug/Kg	☼	05/03/17 11:30	05/17/17 14:29	50
Bromochloromethane	<30		71	30	ug/Kg	☼	05/03/17 11:30	05/17/17 14:29	50
Bromodichloromethane	<26		71	26	ug/Kg	☼	05/03/17 11:30	05/17/17 14:29	50
Bromoform	<34		71	34	ug/Kg	☼	05/03/17 11:30	05/17/17 14:29	50
Bromomethane	<56		140	56	ug/Kg	☼	05/03/17 11:30	05/17/17 14:29	50
Carbon tetrachloride	<27		71	27	ug/Kg	☼	05/03/17 11:30	05/17/17 14:29	50
Chlorobenzene	<27		71	27	ug/Kg	☼	05/03/17 11:30	05/17/17 14:29	50
Chloroethane	<36		71	36	ug/Kg	☼	05/03/17 11:30	05/17/17 14:29	50
Chloroform	<26		140	26	ug/Kg	☼	05/03/17 11:30	05/17/17 14:29	50
Chloromethane	<23		71	23	ug/Kg	☼	05/03/17 11:30	05/17/17 14:29	50
cis-1,2-Dichloroethene	<29		71	29	ug/Kg	☼	05/03/17 11:30	05/17/17 14:29	50
cis-1,3-Dichloropropene	<30		71	30	ug/Kg	☼	05/03/17 11:30	05/17/17 14:29	50
Dibromochloromethane	<35		71	35	ug/Kg	☼	05/03/17 11:30	05/17/17 14:29	50
Dibromomethane	<19		71	19	ug/Kg	☼	05/03/17 11:30	05/17/17 14:29	50
Dichlorodifluoromethane	<48		140	48	ug/Kg	☼	05/03/17 11:30	05/17/17 14:29	50
Ethylbenzene	<13		18	13	ug/Kg	☼	05/03/17 11:30	05/17/17 14:29	50
Hexachlorobutadiene	<32		71	32	ug/Kg	☼	05/03/17 11:30	05/17/17 14:29	50
Isopropyl ether	<20		71	20	ug/Kg	☼	05/03/17 11:30	05/17/17 14:29	50
Isopropylbenzene	<27		71	27	ug/Kg	☼	05/03/17 11:30	05/17/17 14:29	50
Methyl tert-butyl ether	<28		71	28	ug/Kg	☼	05/03/17 11:30	05/17/17 14:29	50
Methylene Chloride	<120		350	120	ug/Kg	☼	05/03/17 11:30	05/17/17 14:29	50
Naphthalene	<24		71	24	ug/Kg	☼	05/03/17 11:30	05/17/17 14:29	50
n-Butylbenzene	<28		71	28	ug/Kg	☼	05/03/17 11:30	05/17/17 14:29	50
N-Propylbenzene	<29		71	29	ug/Kg	☼	05/03/17 11:30	05/17/17 14:29	50
p-Isopropyltoluene	<26		71	26	ug/Kg	☼	05/03/17 11:30	05/17/17 14:29	50
sec-Butylbenzene	<28		71	28	ug/Kg	☼	05/03/17 11:30	05/17/17 14:29	50
Styrene	<27		71	27	ug/Kg	☼	05/03/17 11:30	05/17/17 14:29	50
tert-Butylbenzene	<28		71	28	ug/Kg	☼	05/03/17 11:30	05/17/17 14:29	50

TestAmerica Chicago

Client Sample Results

Client: TRC Environmental Corporation.
Project/Site: STH 11 Kentucky to Kearney - 275788

TestAmerica Job ID: 500-127625-1

Client Sample ID: GP-32 (6-8)

Date Collected: 05/03/17 11:30

Date Received: 05/04/17 10:20

Lab Sample ID: 500-127625-17

Matrix: Solid

Percent Solids: 82.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	<26		71	26	ug/Kg	☼	05/03/17 11:30	05/17/17 14:29	50
Toluene	<10		18	10	ug/Kg	☼	05/03/17 11:30	05/17/17 14:29	50
trans-1,2-Dichloroethene	<25		71	25	ug/Kg	☼	05/03/17 11:30	05/17/17 14:29	50
trans-1,3-Dichloropropene	<26		71	26	ug/Kg	☼	05/03/17 11:30	05/17/17 14:29	50
Trichloroethene	<12		35	12	ug/Kg	☼	05/03/17 11:30	05/17/17 14:29	50
Trichlorofluoromethane	<30 *		71	30	ug/Kg	☼	05/03/17 11:30	05/17/17 14:29	50
Vinyl chloride	<19		35	19	ug/Kg	☼	05/03/17 11:30	05/17/17 14:29	50
Xylenes, Total	<16		35	16	ug/Kg	☼	05/03/17 11:30	05/17/17 14:29	50
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	114		75 - 126				05/03/17 11:30	05/17/17 14:29	50
4-Bromofluorobenzene (Surr)	115		72 - 124				05/03/17 11:30	05/17/17 14:29	50
Dibromofluoromethane	95		75 - 120				05/03/17 11:30	05/17/17 14:29	50
Toluene-d8 (Surr)	100		75 - 120				05/03/17 11:30	05/17/17 14:29	50

Client Sample ID: GP-32 (14-16)

Date Collected: 05/03/17 11:35

Date Received: 05/04/17 10:20

Lab Sample ID: 500-127625-18

Matrix: Solid

Percent Solids: 87.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<30		64	30	ug/Kg	☼	05/03/17 11:35	05/17/17 14:56	50
1,1,1-Trichloroethane	<24		64	24	ug/Kg	☼	05/03/17 11:35	05/17/17 14:56	50
1,1,2,2-Tetrachloroethane	<25		64	25	ug/Kg	☼	05/03/17 11:35	05/17/17 14:56	50
1,1,2-Trichloroethane	<22		64	22	ug/Kg	☼	05/03/17 11:35	05/17/17 14:56	50
1,1-Dichloroethane	<26		64	26	ug/Kg	☼	05/03/17 11:35	05/17/17 14:56	50
1,1-Dichloroethene	<25		64	25	ug/Kg	☼	05/03/17 11:35	05/17/17 14:56	50
1,1-Dichloropropene	<19		64	19	ug/Kg	☼	05/03/17 11:35	05/17/17 14:56	50
1,2,3-Trichlorobenzene	<29		64	29	ug/Kg	☼	05/03/17 11:35	05/17/17 14:56	50
1,2,3-Trichloropropane	<26		64	26	ug/Kg	☼	05/03/17 11:35	05/17/17 14:56	50
1,2,4-Trichlorobenzene	<22		64	22	ug/Kg	☼	05/03/17 11:35	05/17/17 14:56	50
1,2,4-Trimethylbenzene	<23		64	23	ug/Kg	☼	05/03/17 11:35	05/17/17 14:56	50
1,2-Dibromo-3-Chloropropane	<130		320	130	ug/Kg	☼	05/03/17 11:35	05/17/17 14:56	50
1,2-Dibromoethane	<25		64	25	ug/Kg	☼	05/03/17 11:35	05/17/17 14:56	50
1,2-Dichlorobenzene	<21		64	21	ug/Kg	☼	05/03/17 11:35	05/17/17 14:56	50
1,2-Dichloroethane	<25		64	25	ug/Kg	☼	05/03/17 11:35	05/17/17 14:56	50
1,2-Dichloropropane	<27		64	27	ug/Kg	☼	05/03/17 11:35	05/17/17 14:56	50
1,3,5-Trimethylbenzene	<24		64	24	ug/Kg	☼	05/03/17 11:35	05/17/17 14:56	50
1,3-Dichlorobenzene	<26		64	26	ug/Kg	☼	05/03/17 11:35	05/17/17 14:56	50
1,3-Dichloropropane	<23		64	23	ug/Kg	☼	05/03/17 11:35	05/17/17 14:56	50
1,4-Dichlorobenzene	<23		64	23	ug/Kg	☼	05/03/17 11:35	05/17/17 14:56	50
2,2-Dichloropropane	<28		64	28	ug/Kg	☼	05/03/17 11:35	05/17/17 14:56	50
2-Chlorotoluene	<20		64	20	ug/Kg	☼	05/03/17 11:35	05/17/17 14:56	50
4-Chlorotoluene	<22		64	22	ug/Kg	☼	05/03/17 11:35	05/17/17 14:56	50
Benzene	<9.3		16	9.3	ug/Kg	☼	05/03/17 11:35	05/17/17 14:56	50
Bromobenzene	<23		64	23	ug/Kg	☼	05/03/17 11:35	05/17/17 14:56	50
Bromochloromethane	<27		64	27	ug/Kg	☼	05/03/17 11:35	05/17/17 14:56	50
Bromodichloromethane	<24		64	24	ug/Kg	☼	05/03/17 11:35	05/17/17 14:56	50
Bromoform	<31		64	31	ug/Kg	☼	05/03/17 11:35	05/17/17 14:56	50
Bromomethane	<51		130	51	ug/Kg	☼	05/03/17 11:35	05/17/17 14:56	50

TestAmerica Chicago

Client Sample Results

Client: TRC Environmental Corporation.
Project/Site: STH 11 Kentucky to Kearney - 275788

TestAmerica Job ID: 500-127625-1

Client Sample ID: GP-32 (14-16)

Lab Sample ID: 500-127625-18

Date Collected: 05/03/17 11:35

Matrix: Solid

Date Received: 05/04/17 10:20

Percent Solids: 87.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon tetrachloride	<25		64	25	ug/Kg	☼	05/03/17 11:35	05/17/17 14:56	50
Chlorobenzene	<25		64	25	ug/Kg	☼	05/03/17 11:35	05/17/17 14:56	50
Chloroethane	<32		64	32	ug/Kg	☼	05/03/17 11:35	05/17/17 14:56	50
Chloroform	<24		130	24	ug/Kg	☼	05/03/17 11:35	05/17/17 14:56	50
Chloromethane	<20		64	20	ug/Kg	☼	05/03/17 11:35	05/17/17 14:56	50
cis-1,2-Dichloroethene	<26		64	26	ug/Kg	☼	05/03/17 11:35	05/17/17 14:56	50
cis-1,3-Dichloropropene	<27		64	27	ug/Kg	☼	05/03/17 11:35	05/17/17 14:56	50
Dibromochloromethane	<31		64	31	ug/Kg	☼	05/03/17 11:35	05/17/17 14:56	50
Dibromomethane	<17		64	17	ug/Kg	☼	05/03/17 11:35	05/17/17 14:56	50
Dichlorodifluoromethane	<43		130	43	ug/Kg	☼	05/03/17 11:35	05/17/17 14:56	50
Ethylbenzene	<12		16	12	ug/Kg	☼	05/03/17 11:35	05/17/17 14:56	50
Hexachlorobutadiene	<28		64	28	ug/Kg	☼	05/03/17 11:35	05/17/17 14:56	50
Isopropyl ether	<18		64	18	ug/Kg	☼	05/03/17 11:35	05/17/17 14:56	50
Isopropylbenzene	<25		64	25	ug/Kg	☼	05/03/17 11:35	05/17/17 14:56	50
Methyl tert-butyl ether	<25		64	25	ug/Kg	☼	05/03/17 11:35	05/17/17 14:56	50
Methylene Chloride	<100		320	100	ug/Kg	☼	05/03/17 11:35	05/17/17 14:56	50
Naphthalene	<21		64	21	ug/Kg	☼	05/03/17 11:35	05/17/17 14:56	50
n-Butylbenzene	<25		64	25	ug/Kg	☼	05/03/17 11:35	05/17/17 14:56	50
N-Propylbenzene	<26		64	26	ug/Kg	☼	05/03/17 11:35	05/17/17 14:56	50
p-Isopropyltoluene	<23		64	23	ug/Kg	☼	05/03/17 11:35	05/17/17 14:56	50
sec-Butylbenzene	<25		64	25	ug/Kg	☼	05/03/17 11:35	05/17/17 14:56	50
Styrene	<25		64	25	ug/Kg	☼	05/03/17 11:35	05/17/17 14:56	50
tert-Butylbenzene	<25		64	25	ug/Kg	☼	05/03/17 11:35	05/17/17 14:56	50
Tetrachloroethene	<24		64	24	ug/Kg	☼	05/03/17 11:35	05/17/17 14:56	50
Toluene	<9.4		16	9.4	ug/Kg	☼	05/03/17 11:35	05/17/17 14:56	50
trans-1,2-Dichloroethene	<22		64	22	ug/Kg	☼	05/03/17 11:35	05/17/17 14:56	50
trans-1,3-Dichloropropene	<23		64	23	ug/Kg	☼	05/03/17 11:35	05/17/17 14:56	50
Trichloroethene	<10		32	10	ug/Kg	☼	05/03/17 11:35	05/17/17 14:56	50
Trichlorofluoromethane	<27 *		64	27	ug/Kg	☼	05/03/17 11:35	05/17/17 14:56	50
Vinyl chloride	<17		32	17	ug/Kg	☼	05/03/17 11:35	05/17/17 14:56	50
Xylenes, Total	<14		32	14	ug/Kg	☼	05/03/17 11:35	05/17/17 14:56	50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	114		75 - 126	05/03/17 11:35	05/17/17 14:56	50
4-Bromofluorobenzene (Surr)	116		72 - 124	05/03/17 11:35	05/17/17 14:56	50
Dibromofluoromethane	96		75 - 120	05/03/17 11:35	05/17/17 14:56	50
Toluene-d8 (Surr)	99		75 - 120	05/03/17 11:35	05/17/17 14:56	50

Client Sample ID: GP-33 (2-4)

Lab Sample ID: 500-127625-19

Date Collected: 05/03/17 11:50

Matrix: Solid

Date Received: 05/04/17 10:20

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	<34		73	34	ug/Kg	☼	05/03/17 11:50	05/17/17 15:23	50
1,1,1-Trichloroethane	<28		73	28	ug/Kg	☼	05/03/17 11:50	05/17/17 15:23	50
1,1,2,2-Tetrachloroethane	<29		73	29	ug/Kg	☼	05/03/17 11:50	05/17/17 15:23	50
1,1,2-Trichloroethane	<26		73	26	ug/Kg	☼	05/03/17 11:50	05/17/17 15:23	50
1,1-Dichloroethane	<30		73	30	ug/Kg	☼	05/03/17 11:50	05/17/17 15:23	50
1,1-Dichloroethene	<29		73	29	ug/Kg	☼	05/03/17 11:50	05/17/17 15:23	50

TestAmerica Chicago

Client Sample Results

Client: TRC Environmental Corporation.
Project/Site: STH 11 Kentucky to Kearney - 275788

TestAmerica Job ID: 500-127625-1

Client Sample ID: GP-33 (2-4)

Lab Sample ID: 500-127625-19

Date Collected: 05/03/17 11:50

Matrix: Solid

Date Received: 05/04/17 10:20

Percent Solids: 81.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloropropene	<22		73	22	ug/Kg	☼	05/03/17 11:50	05/17/17 15:23	50
1,2,3-Trichlorobenzene	<34		73	34	ug/Kg	☼	05/03/17 11:50	05/17/17 15:23	50
1,2,3-Trichloropropane	<30		73	30	ug/Kg	☼	05/03/17 11:50	05/17/17 15:23	50
1,2,4-Trichlorobenzene	<25		73	25	ug/Kg	☼	05/03/17 11:50	05/17/17 15:23	50
1,2,4-Trimethylbenzene	<26		73	26	ug/Kg	☼	05/03/17 11:50	05/17/17 15:23	50
1,2-Dibromo-3-Chloropropane	<150		370	150	ug/Kg	☼	05/03/17 11:50	05/17/17 15:23	50
1,2-Dibromoethane	<28		73	28	ug/Kg	☼	05/03/17 11:50	05/17/17 15:23	50
1,2-Dichlorobenzene	<24		73	24	ug/Kg	☼	05/03/17 11:50	05/17/17 15:23	50
1,2-Dichloroethane	<29		73	29	ug/Kg	☼	05/03/17 11:50	05/17/17 15:23	50
1,2-Dichloropropane	<31		73	31	ug/Kg	☼	05/03/17 11:50	05/17/17 15:23	50
1,3,5-Trimethylbenzene	<28		73	28	ug/Kg	☼	05/03/17 11:50	05/17/17 15:23	50
1,3-Dichlorobenzene	<29		73	29	ug/Kg	☼	05/03/17 11:50	05/17/17 15:23	50
1,3-Dichloropropane	<27		73	27	ug/Kg	☼	05/03/17 11:50	05/17/17 15:23	50
1,4-Dichlorobenzene	<27		73	27	ug/Kg	☼	05/03/17 11:50	05/17/17 15:23	50
2,2-Dichloropropane	<33		73	33	ug/Kg	☼	05/03/17 11:50	05/17/17 15:23	50
2-Chlorotoluene	<23		73	23	ug/Kg	☼	05/03/17 11:50	05/17/17 15:23	50
4-Chlorotoluene	<26		73	26	ug/Kg	☼	05/03/17 11:50	05/17/17 15:23	50
Benzene	<11		18	11	ug/Kg	☼	05/03/17 11:50	05/17/17 15:23	50
Bromobenzene	<26		73	26	ug/Kg	☼	05/03/17 11:50	05/17/17 15:23	50
Bromochloromethane	<31		73	31	ug/Kg	☼	05/03/17 11:50	05/17/17 15:23	50
Bromodichloromethane	<27		73	27	ug/Kg	☼	05/03/17 11:50	05/17/17 15:23	50
Bromoform	<35		73	35	ug/Kg	☼	05/03/17 11:50	05/17/17 15:23	50
Bromomethane	<58		150	58	ug/Kg	☼	05/03/17 11:50	05/17/17 15:23	50
Carbon tetrachloride	<28		73	28	ug/Kg	☼	05/03/17 11:50	05/17/17 15:23	50
Chlorobenzene	<28		73	28	ug/Kg	☼	05/03/17 11:50	05/17/17 15:23	50
Chloroethane	<37		73	37	ug/Kg	☼	05/03/17 11:50	05/17/17 15:23	50
Chloroform	<27		150	27	ug/Kg	☼	05/03/17 11:50	05/17/17 15:23	50
Chloromethane	<23		73	23	ug/Kg	☼	05/03/17 11:50	05/17/17 15:23	50
cis-1,2-Dichloroethene	<30		73	30	ug/Kg	☼	05/03/17 11:50	05/17/17 15:23	50
cis-1,3-Dichloropropene	<30		73	30	ug/Kg	☼	05/03/17 11:50	05/17/17 15:23	50
Dibromochloromethane	<36		73	36	ug/Kg	☼	05/03/17 11:50	05/17/17 15:23	50
Dibromomethane	<20		73	20	ug/Kg	☼	05/03/17 11:50	05/17/17 15:23	50
Dichlorodifluoromethane	<49		150	49	ug/Kg	☼	05/03/17 11:50	05/17/17 15:23	50
Ethylbenzene	<13		18	13	ug/Kg	☼	05/03/17 11:50	05/17/17 15:23	50
Hexachlorobutadiene	<33		73	33	ug/Kg	☼	05/03/17 11:50	05/17/17 15:23	50
Isopropyl ether	<20		73	20	ug/Kg	☼	05/03/17 11:50	05/17/17 15:23	50
Isopropylbenzene	<28		73	28	ug/Kg	☼	05/03/17 11:50	05/17/17 15:23	50
Methyl tert-butyl ether	<29		73	29	ug/Kg	☼	05/03/17 11:50	05/17/17 15:23	50
Methylene Chloride	<120		370	120	ug/Kg	☼	05/03/17 11:50	05/17/17 15:23	50
Naphthalene	<24		73	24	ug/Kg	☼	05/03/17 11:50	05/17/17 15:23	50
n-Butylbenzene	<28		73	28	ug/Kg	☼	05/03/17 11:50	05/17/17 15:23	50
N-Propylbenzene	<30		73	30	ug/Kg	☼	05/03/17 11:50	05/17/17 15:23	50
p-Isopropyltoluene	<27		73	27	ug/Kg	☼	05/03/17 11:50	05/17/17 15:23	50
sec-Butylbenzene	<29		73	29	ug/Kg	☼	05/03/17 11:50	05/17/17 15:23	50
Styrene	<28		73	28	ug/Kg	☼	05/03/17 11:50	05/17/17 15:23	50
tert-Butylbenzene	<29		73	29	ug/Kg	☼	05/03/17 11:50	05/17/17 15:23	50
Tetrachloroethene	<27		73	27	ug/Kg	☼	05/03/17 11:50	05/17/17 15:23	50
Toluene	<11		18	11	ug/Kg	☼	05/03/17 11:50	05/17/17 15:23	50
trans-1,2-Dichloroethene	<26		73	26	ug/Kg	☼	05/03/17 11:50	05/17/17 15:23	50

TestAmerica Chicago

Client Sample Results

Client: TRC Environmental Corporation.
Project/Site: STH 11 Kentucky to Kearney - 275788

TestAmerica Job ID: 500-127625-1

Client Sample ID: GP-33 (2-4)

Date Collected: 05/03/17 11:50

Date Received: 05/04/17 10:20

Lab Sample ID: 500-127625-19

Matrix: Solid

Percent Solids: 81.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,3-Dichloropropene	<27		73	27	ug/Kg	☼	05/03/17 11:50	05/17/17 15:23	50
Trichloroethene	<12		37	12	ug/Kg	☼	05/03/17 11:50	05/17/17 15:23	50
Trichlorofluoromethane	<31	*	73	31	ug/Kg	☼	05/03/17 11:50	05/17/17 15:23	50
Vinyl chloride	<19		37	19	ug/Kg	☼	05/03/17 11:50	05/17/17 15:23	50
Xylenes, Total	<16		37	16	ug/Kg	☼	05/03/17 11:50	05/17/17 15:23	50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	113		75 - 126	05/03/17 11:50	05/17/17 15:23	50
4-Bromofluorobenzene (Surr)	114		72 - 124	05/03/17 11:50	05/17/17 15:23	50
Dibromofluoromethane	94		75 - 120	05/03/17 11:50	05/17/17 15:23	50
Toluene-d8 (Surr)	101		75 - 120	05/03/17 11:50	05/17/17 15:23	50

Client Sample ID: GP-33 (6-8)

Date Collected: 05/03/17 11:55

Date Received: 05/04/17 10:20

Lab Sample ID: 500-127625-20

Matrix: Solid

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	<32		69	32	ug/Kg	☼	05/03/17 11:55	05/17/17 15:50	50
1,1,1-Trichloroethane	<26		69	26	ug/Kg	☼	05/03/17 11:55	05/17/17 15:50	50
1,1,1,2,2-Tetrachloroethane	<27		69	27	ug/Kg	☼	05/03/17 11:55	05/17/17 15:50	50
1,1,2-Trichloroethane	<24		69	24	ug/Kg	☼	05/03/17 11:55	05/17/17 15:50	50
1,1-Dichloroethane	<28		69	28	ug/Kg	☼	05/03/17 11:55	05/17/17 15:50	50
1,1-Dichloroethene	<27		69	27	ug/Kg	☼	05/03/17 11:55	05/17/17 15:50	50
1,1-Dichloropropene	<21		69	21	ug/Kg	☼	05/03/17 11:55	05/17/17 15:50	50
1,2,3-Trichlorobenzene	<32		69	32	ug/Kg	☼	05/03/17 11:55	05/17/17 15:50	50
1,2,3-Trichloropropane	<29		69	29	ug/Kg	☼	05/03/17 11:55	05/17/17 15:50	50
1,2,4-Trichlorobenzene	<24		69	24	ug/Kg	☼	05/03/17 11:55	05/17/17 15:50	50
1,2,4-Trimethylbenzene	<25		69	25	ug/Kg	☼	05/03/17 11:55	05/17/17 15:50	50
1,2-Dibromo-3-Chloropropane	<140		350	140	ug/Kg	☼	05/03/17 11:55	05/17/17 15:50	50
1,2-Dibromoethane	<27		69	27	ug/Kg	☼	05/03/17 11:55	05/17/17 15:50	50
1,2-Dichlorobenzene	<23		69	23	ug/Kg	☼	05/03/17 11:55	05/17/17 15:50	50
1,2-Dichloroethane	<27		69	27	ug/Kg	☼	05/03/17 11:55	05/17/17 15:50	50
1,2-Dichloropropane	<30		69	30	ug/Kg	☼	05/03/17 11:55	05/17/17 15:50	50
1,3,5-Trimethylbenzene	<26		69	26	ug/Kg	☼	05/03/17 11:55	05/17/17 15:50	50
1,3-Dichlorobenzene	<28		69	28	ug/Kg	☼	05/03/17 11:55	05/17/17 15:50	50
1,3-Dichloropropane	<25		69	25	ug/Kg	☼	05/03/17 11:55	05/17/17 15:50	50
1,4-Dichlorobenzene	<25		69	25	ug/Kg	☼	05/03/17 11:55	05/17/17 15:50	50
2,2-Dichloropropane	<31		69	31	ug/Kg	☼	05/03/17 11:55	05/17/17 15:50	50
2-Chlorotoluene	<22		69	22	ug/Kg	☼	05/03/17 11:55	05/17/17 15:50	50
4-Chlorotoluene	<24		69	24	ug/Kg	☼	05/03/17 11:55	05/17/17 15:50	50
Benzene	<10		17	10	ug/Kg	☼	05/03/17 11:55	05/17/17 15:50	50
Bromobenzene	<25		69	25	ug/Kg	☼	05/03/17 11:55	05/17/17 15:50	50
Bromochloromethane	<30		69	30	ug/Kg	☼	05/03/17 11:55	05/17/17 15:50	50
Bromodichloromethane	<26		69	26	ug/Kg	☼	05/03/17 11:55	05/17/17 15:50	50
Bromoform	<33		69	33	ug/Kg	☼	05/03/17 11:55	05/17/17 15:50	50
Bromomethane	<55		140	55	ug/Kg	☼	05/03/17 11:55	05/17/17 15:50	50
Carbon tetrachloride	<27		69	27	ug/Kg	☼	05/03/17 11:55	05/17/17 15:50	50
Chlorobenzene	<27		69	27	ug/Kg	☼	05/03/17 11:55	05/17/17 15:50	50
Chloroethane	<35		69	35	ug/Kg	☼	05/03/17 11:55	05/17/17 15:50	50

TestAmerica Chicago

Client Sample Results

Client: TRC Environmental Corporation.
Project/Site: STH 11 Kentucky to Kearney - 275788

TestAmerica Job ID: 500-127625-1

Client Sample ID: GP-33 (6-8)

Lab Sample ID: 500-127625-20

Date Collected: 05/03/17 11:55

Matrix: Solid

Date Received: 05/04/17 10:20

Percent Solids: 84.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloroform	<26		140	26	ug/Kg	☼	05/03/17 11:55	05/17/17 15:50	50
Chloromethane	<22		69	22	ug/Kg	☼	05/03/17 11:55	05/17/17 15:50	50
cis-1,2-Dichloroethene	<28		69	28	ug/Kg	☼	05/03/17 11:55	05/17/17 15:50	50
cis-1,3-Dichloropropene	<29		69	29	ug/Kg	☼	05/03/17 11:55	05/17/17 15:50	50
Dibromochloromethane	<34		69	34	ug/Kg	☼	05/03/17 11:55	05/17/17 15:50	50
Dibromomethane	<19		69	19	ug/Kg	☼	05/03/17 11:55	05/17/17 15:50	50
Dichlorodifluoromethane	<47		140	47	ug/Kg	☼	05/03/17 11:55	05/17/17 15:50	50
Ethylbenzene	<13		17	13	ug/Kg	☼	05/03/17 11:55	05/17/17 15:50	50
Hexachlorobutadiene	<31		69	31	ug/Kg	☼	05/03/17 11:55	05/17/17 15:50	50
Isopropyl ether	<19		69	19	ug/Kg	☼	05/03/17 11:55	05/17/17 15:50	50
Isopropylbenzene	<27		69	27	ug/Kg	☼	05/03/17 11:55	05/17/17 15:50	50
Methyl tert-butyl ether	<27		69	27	ug/Kg	☼	05/03/17 11:55	05/17/17 15:50	50
Methylene Chloride	<110		350	110	ug/Kg	☼	05/03/17 11:55	05/17/17 15:50	50
Naphthalene	<23		69	23	ug/Kg	☼	05/03/17 11:55	05/17/17 15:50	50
n-Butylbenzene	<27		69	27	ug/Kg	☼	05/03/17 11:55	05/17/17 15:50	50
N-Propylbenzene	<29		69	29	ug/Kg	☼	05/03/17 11:55	05/17/17 15:50	50
p-Isopropyltoluene	<25		69	25	ug/Kg	☼	05/03/17 11:55	05/17/17 15:50	50
sec-Butylbenzene	<27		69	27	ug/Kg	☼	05/03/17 11:55	05/17/17 15:50	50
Styrene	<27		69	27	ug/Kg	☼	05/03/17 11:55	05/17/17 15:50	50
tert-Butylbenzene	<27		69	27	ug/Kg	☼	05/03/17 11:55	05/17/17 15:50	50
Tetrachloroethene	5400		69	26	ug/Kg	☼	05/03/17 11:55	05/17/17 15:50	50
Toluene	<10		17	10	ug/Kg	☼	05/03/17 11:55	05/17/17 15:50	50
trans-1,2-Dichloroethene	<24		69	24	ug/Kg	☼	05/03/17 11:55	05/17/17 15:50	50
trans-1,3-Dichloropropene	<25		69	25	ug/Kg	☼	05/03/17 11:55	05/17/17 15:50	50
Trichloroethene	100		35	11	ug/Kg	☼	05/03/17 11:55	05/17/17 15:50	50
Trichlorofluoromethane	<30 *		69	30	ug/Kg	☼	05/03/17 11:55	05/17/17 15:50	50
Vinyl chloride	<18		35	18	ug/Kg	☼	05/03/17 11:55	05/17/17 15:50	50
Xylenes, Total	<15		35	15	ug/Kg	☼	05/03/17 11:55	05/17/17 15:50	50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	115		75 - 126	05/03/17 11:55	05/17/17 15:50	50
4-Bromofluorobenzene (Surr)	115		72 - 124	05/03/17 11:55	05/17/17 15:50	50
Dibromofluoromethane	93		75 - 120	05/03/17 11:55	05/17/17 15:50	50
Toluene-d8 (Surr)	98		75 - 120	05/03/17 11:55	05/17/17 15:50	50

Client Sample ID: Trip Blank

Lab Sample ID: 500-127625-21

Date Collected: 05/03/17 00:00

Matrix: Solid

Date Received: 05/04/17 10:20

Percent Solids: 100.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<23		50	23	ug/Kg	☼	05/03/17 00:00	05/17/17 16:17	50
1,1,1-Trichloroethane	<19		50	19	ug/Kg	☼	05/03/17 00:00	05/17/17 16:17	50
1,1,2,2-Tetrachloroethane	<20		50	20	ug/Kg	☼	05/03/17 00:00	05/17/17 16:17	50
1,1,2-Trichloroethane	<18		50	18	ug/Kg	☼	05/03/17 00:00	05/17/17 16:17	50
1,1-Dichloroethane	<21		50	21	ug/Kg	☼	05/03/17 00:00	05/17/17 16:17	50
1,1-Dichloroethene	<20		50	20	ug/Kg	☼	05/03/17 00:00	05/17/17 16:17	50
1,1-Dichloropropene	<15		50	15	ug/Kg	☼	05/03/17 00:00	05/17/17 16:17	50
1,2,3-Trichlorobenzene	<23		50	23	ug/Kg	☼	05/03/17 00:00	05/17/17 16:17	50
1,2,3-Trichloropropane	<21		50	21	ug/Kg	☼	05/03/17 00:00	05/17/17 16:17	50

TestAmerica Chicago

Client Sample Results

Client: TRC Environmental Corporation.
Project/Site: STH 11 Kentucky to Kearney - 275788

TestAmerica Job ID: 500-127625-1

Client Sample ID: Trip Blank

Lab Sample ID: 500-127625-21

Date Collected: 05/03/17 00:00

Matrix: Solid

Date Received: 05/04/17 10:20

Percent Solids: 100.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<17		50	17	ug/Kg	☼	05/03/17 00:00	05/17/17 16:17	50
1,2,4-Trimethylbenzene	<18		50	18	ug/Kg	☼	05/03/17 00:00	05/17/17 16:17	50
1,2-Dibromo-3-Chloropropane	<100		250	100	ug/Kg	☼	05/03/17 00:00	05/17/17 16:17	50
1,2-Dibromoethane	<19		50	19	ug/Kg	☼	05/03/17 00:00	05/17/17 16:17	50
1,2-Dichlorobenzene	<17		50	17	ug/Kg	☼	05/03/17 00:00	05/17/17 16:17	50
1,2-Dichloroethane	<20		50	20	ug/Kg	☼	05/03/17 00:00	05/17/17 16:17	50
1,2-Dichloropropane	<21		50	21	ug/Kg	☼	05/03/17 00:00	05/17/17 16:17	50
1,3,5-Trimethylbenzene	<19		50	19	ug/Kg	☼	05/03/17 00:00	05/17/17 16:17	50
1,3-Dichlorobenzene	<20		50	20	ug/Kg	☼	05/03/17 00:00	05/17/17 16:17	50
1,3-Dichloropropane	<18		50	18	ug/Kg	☼	05/03/17 00:00	05/17/17 16:17	50
1,4-Dichlorobenzene	<18		50	18	ug/Kg	☼	05/03/17 00:00	05/17/17 16:17	50
2,2-Dichloropropane	<22		50	22	ug/Kg	☼	05/03/17 00:00	05/17/17 16:17	50
2-Chlorotoluene	<16		50	16	ug/Kg	☼	05/03/17 00:00	05/17/17 16:17	50
4-Chlorotoluene	<18		50	18	ug/Kg	☼	05/03/17 00:00	05/17/17 16:17	50
Benzene	<7.3		13	7.3	ug/Kg	☼	05/03/17 00:00	05/17/17 16:17	50
Bromobenzene	<18		50	18	ug/Kg	☼	05/03/17 00:00	05/17/17 16:17	50
Bromochloromethane	<21		50	21	ug/Kg	☼	05/03/17 00:00	05/17/17 16:17	50
Bromodichloromethane	<19		50	19	ug/Kg	☼	05/03/17 00:00	05/17/17 16:17	50
Bromoform	<24		50	24	ug/Kg	☼	05/03/17 00:00	05/17/17 16:17	50
Bromomethane	<40		100	40	ug/Kg	☼	05/03/17 00:00	05/17/17 16:17	50
Carbon tetrachloride	<19		50	19	ug/Kg	☼	05/03/17 00:00	05/17/17 16:17	50
Chlorobenzene	<19		50	19	ug/Kg	☼	05/03/17 00:00	05/17/17 16:17	50
Chloroethane	<25		50	25	ug/Kg	☼	05/03/17 00:00	05/17/17 16:17	50
Chloroform	<19		100	19	ug/Kg	☼	05/03/17 00:00	05/17/17 16:17	50
Chloromethane	<16		50	16	ug/Kg	☼	05/03/17 00:00	05/17/17 16:17	50
cis-1,2-Dichloroethene	<20		50	20	ug/Kg	☼	05/03/17 00:00	05/17/17 16:17	50
cis-1,3-Dichloropropene	<21		50	21	ug/Kg	☼	05/03/17 00:00	05/17/17 16:17	50
Dibromochloromethane	<24		50	24	ug/Kg	☼	05/03/17 00:00	05/17/17 16:17	50
Dibromomethane	<14		50	14	ug/Kg	☼	05/03/17 00:00	05/17/17 16:17	50
Dichlorodifluoromethane	<34		100	34	ug/Kg	☼	05/03/17 00:00	05/17/17 16:17	50
Ethylbenzene	<9.2		13	9.2	ug/Kg	☼	05/03/17 00:00	05/17/17 16:17	50
Hexachlorobutadiene	<22		50	22	ug/Kg	☼	05/03/17 00:00	05/17/17 16:17	50
Isopropyl ether	<14		50	14	ug/Kg	☼	05/03/17 00:00	05/17/17 16:17	50
Isopropylbenzene	<19		50	19	ug/Kg	☼	05/03/17 00:00	05/17/17 16:17	50
Methyl tert-butyl ether	<20		50	20	ug/Kg	☼	05/03/17 00:00	05/17/17 16:17	50
Methylene Chloride	<82		250	82	ug/Kg	☼	05/03/17 00:00	05/17/17 16:17	50
Naphthalene	<17		50	17	ug/Kg	☼	05/03/17 00:00	05/17/17 16:17	50
n-Butylbenzene	<19		50	19	ug/Kg	☼	05/03/17 00:00	05/17/17 16:17	50
N-Propylbenzene	<21		50	21	ug/Kg	☼	05/03/17 00:00	05/17/17 16:17	50
p-Isopropyltoluene	<18		50	18	ug/Kg	☼	05/03/17 00:00	05/17/17 16:17	50
sec-Butylbenzene	<20		50	20	ug/Kg	☼	05/03/17 00:00	05/17/17 16:17	50
Styrene	<19		50	19	ug/Kg	☼	05/03/17 00:00	05/17/17 16:17	50
tert-Butylbenzene	<20		50	20	ug/Kg	☼	05/03/17 00:00	05/17/17 16:17	50
Tetrachloroethene	<19		50	19	ug/Kg	☼	05/03/17 00:00	05/17/17 16:17	50
Toluene	<7.4		13	7.4	ug/Kg	☼	05/03/17 00:00	05/17/17 16:17	50
trans-1,2-Dichloroethene	<18		50	18	ug/Kg	☼	05/03/17 00:00	05/17/17 16:17	50
trans-1,3-Dichloropropene	<18		50	18	ug/Kg	☼	05/03/17 00:00	05/17/17 16:17	50
Trichloroethene	<8.2		25	8.2	ug/Kg	☼	05/03/17 00:00	05/17/17 16:17	50
Trichlorofluoromethane	<21 *		50	21	ug/Kg	☼	05/03/17 00:00	05/17/17 16:17	50

TestAmerica Chicago

Client Sample Results

Client: TRC Environmental Corporation.
 Project/Site: STH 11 Kentucky to Kearney - 275788

TestAmerica Job ID: 500-127625-1

Client Sample ID: Trip Blank

Lab Sample ID: 500-127625-21

Date Collected: 05/03/17 00:00

Matrix: Solid

Date Received: 05/04/17 10:20

Percent Solids: 100.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	<13		25	13	ug/Kg	☼	05/03/17 00:00	05/17/17 16:17	50
Xylenes, Total	<11		25	11	ug/Kg	☼	05/03/17 00:00	05/17/17 16:17	50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	114		75 - 126	05/03/17 00:00	05/17/17 16:17	50
4-Bromofluorobenzene (Surr)	115		72 - 124	05/03/17 00:00	05/17/17 16:17	50
Dibromofluoromethane	96		75 - 120	05/03/17 00:00	05/17/17 16:17	50
Toluene-d8 (Surr)	100		75 - 120	05/03/17 00:00	05/17/17 16:17	50

TestAmerica Laboratories, Inc.
 Attention: Sandie Fredrick
 2417 Bond St
 University Park, IL 44720

Date Received: 05/05/2017
Date Reported: 05/15/17 17:07
Client Project: Soil/Waste
Client Project ID: Soil/Waste
PO# 2669273
Project #: Soil/Waste

Certificate of Analysis

This analytical test report shall not be reproduced, except in full, without written permission from Eurofins S-F Analytical Laboratories. All quality control samples and checks were within acceptance limits unless otherwise indicated. Test results pertain only to those items tested. All samples were in good condition when received by the laboratory unless otherwise noted. All LOD/LOQs are adjusted to reflect dilutions.

DNR #	Analyte	Result Wet Wt.	LOD Wet Wt.	Result Dry Wt.	LOD Dry Wt.	LOQ Dry Wt.	Units	Dilution Factor	Date Prepared	Date Analyzed	Method	Notes
1705125-01		GP-28 (6-8) (500-127625-6)			Date Collected: 05/03/2017							
		Preparation: SW-846 5050 1994			Prepared By: P84Z		Analyzed By: P84Z					
	Chlorine as Cl	0.008	0.002	0.009	0.002	0.006	% Wt.	1	5/15/17	05/15/17	ASTM D808	
	Solids			Result: 85.26		% Wt.			Analyzed By: YT09	5/8/17	05/09/17	SM2540G 1997

This report was prepared and printed by:



Josh Rhein, Chemistry Operations Manager

Page 1 of 1



Definitions/Glossary

Client: TRC Environmental Corporation.
Project/Site: STH 11 Kentucky to Kearney - 275788

TestAmerica Job ID: 500-127625-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
F1	MS and/or MSD Recovery is outside acceptance limits.
*	LCS or LCSD is outside acceptance limits.

GC 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.
*	LCS or LCSD is outside acceptance 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.

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	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
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 (Radiochemistry)
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: STH 11 Kentucky to Kearney - 275788

TestAmerica Job ID: 500-127625-1

GC/MS VOA

Prep Batch: 384048

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-127625-11	GP-30 (2-4)	Total/NA	Solid	5035	
500-127625-12	GP-30 (6-8)	Total/NA	Solid	5035	
500-127625-13	GP-30 (14-16)	Total/NA	Solid	5035	
500-127625-14	GP-31 (2-4)	Total/NA	Solid	5035	
500-127625-15	GP-31 (6-8)	Total/NA	Solid	5035	
500-127625-16	GP-32 (2-4)	Total/NA	Solid	5035	
500-127625-17	GP-32 (6-8)	Total/NA	Solid	5035	
500-127625-18	GP-32 (14-16)	Total/NA	Solid	5035	
500-127625-19	GP-33 (2-4)	Total/NA	Solid	5035	
500-127625-20	GP-33 (6-8)	Total/NA	Solid	5035	
500-127625-21	Trip Blank	Total/NA	Solid	5035	
500-127625-11 MS	GP-30 (2-4)	Total/NA	Solid	5035	
500-127625-11 MSD	GP-30 (2-4)	Total/NA	Solid	5035	

Leach Batch: 384086

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-127625-6	GP-28 (6-8)	TCLP	Solid	1311	
LB 500-384086/1-A	Method Blank	TCLP	Solid	1311	

Analysis Batch: 384262

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-127625-6	GP-28 (6-8)	TCLP	Solid	8260B	384086
LB 500-384086/1-A	Method Blank	TCLP	Solid	8260B	384086
MB 500-384262/6	Method Blank	Total/NA	Solid	8260B	
LCS 500-384262/4	Lab Control Sample	Total/NA	Solid	8260B	

Analysis Batch: 385468

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-127625-11	GP-30 (2-4)	Total/NA	Solid	8260B	384048
500-127625-12	GP-30 (6-8)	Total/NA	Solid	8260B	384048
500-127625-13	GP-30 (14-16)	Total/NA	Solid	8260B	384048
500-127625-14	GP-31 (2-4)	Total/NA	Solid	8260B	384048
500-127625-15	GP-31 (6-8)	Total/NA	Solid	8260B	384048
500-127625-16	GP-32 (2-4)	Total/NA	Solid	8260B	384048
500-127625-17	GP-32 (6-8)	Total/NA	Solid	8260B	384048
500-127625-18	GP-32 (14-16)	Total/NA	Solid	8260B	384048
500-127625-19	GP-33 (2-4)	Total/NA	Solid	8260B	384048
500-127625-20	GP-33 (6-8)	Total/NA	Solid	8260B	384048
500-127625-21	Trip Blank	Total/NA	Solid	8260B	384048
MB 500-385468/6	Method Blank	Total/NA	Solid	8260B	
LCS 500-385468/4	Lab Control Sample	Total/NA	Solid	8260B	
500-127625-11 MS	GP-30 (2-4)	Total/NA	Solid	8260B	384048
500-127625-11 MSD	GP-30 (2-4)	Total/NA	Solid	8260B	384048

GC/MS Semi VOA

Leach Batch: 383992

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-127625-6	GP-28 (6-8)	TCLP	Solid	1311	
LB 500-383992/1-B	Method Blank	TCLP	Solid	1311	

TestAmerica Chicago

QC Association Summary

Client: TRC Environmental Corporation.
Project/Site: STH 11 Kentucky to Kearney - 275788

TestAmerica Job ID: 500-127625-1

GC/MS Semi VOA (Continued)

Prep Batch: 384171

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-127625-6	GP-28 (6-8)	TCLP	Solid	3510C	383992
LB 500-383992/1-B	Method Blank	TCLP	Solid	3510C	383992
MB 500-384171/1-A	Method Blank	Total/NA	Solid	3510C	
LCS 500-384171/2-A	Lab Control Sample	Total/NA	Solid	3510C	

Analysis Batch: 384241

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-127625-6	GP-28 (6-8)	TCLP	Solid	8270D	384171
LB 500-383992/1-B	Method Blank	TCLP	Solid	8270D	384171
MB 500-384171/1-A	Method Blank	Total/NA	Solid	8270D	384171
LCS 500-384171/2-A	Lab Control Sample	Total/NA	Solid	8270D	384171

GC VOA

Prep Batch: 428058

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-127625-1	GP-26 (2-4)	Total/NA	Solid	WI GRO	
500-127625-2	GP-26 (6-8)	Total/NA	Solid	WI GRO	
500-127625-3	GP-27 (2-4)	Total/NA	Solid	WI GRO	
500-127625-4	GP-27 (6-8)	Total/NA	Solid	WI GRO	
500-127625-5	GP-28 (2-4)	Total/NA	Solid	WI GRO	
500-127625-6	GP-28 (6-8)	Total/NA	Solid	WI GRO	
500-127625-7	GP-28 (14-16)	Total/NA	Solid	WI GRO	
500-127625-8	GP-29 (2-4)	Total/NA	Solid	WI GRO	
500-127625-9	GP-29 (6-8)	Total/NA	Solid	WI GRO	
500-127625-10	GP-29 (14-16)	Total/NA	Solid	WI GRO	
MB 490-428058/1-A	Method Blank	Total/NA	Solid	WI GRO	
LCS 490-428058/2-A	Lab Control Sample	Total/NA	Solid	WI GRO	
LCSD 490-428058/3-A	Lab Control Sample Dup	Total/NA	Solid	WI GRO	

Analysis Batch: 429747

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-127625-1	GP-26 (2-4)	Total/NA	Solid	WDNR	428058
500-127625-2	GP-26 (6-8)	Total/NA	Solid	WDNR	428058
500-127625-3	GP-27 (2-4)	Total/NA	Solid	WDNR	428058
500-127625-4	GP-27 (6-8)	Total/NA	Solid	WDNR	428058
500-127625-5	GP-28 (2-4)	Total/NA	Solid	WDNR	428058
500-127625-6	GP-28 (6-8)	Total/NA	Solid	WDNR	428058
500-127625-7	GP-28 (14-16)	Total/NA	Solid	WDNR	428058
500-127625-8	GP-29 (2-4)	Total/NA	Solid	WDNR	428058
500-127625-9	GP-29 (6-8)	Total/NA	Solid	WDNR	428058
500-127625-10	GP-29 (14-16)	Total/NA	Solid	WDNR	428058
MB 490-428058/1-A	Method Blank	Total/NA	Solid	WDNR	428058
LCS 490-428058/2-A	Lab Control Sample	Total/NA	Solid	WDNR	428058
LCSD 490-428058/3-A	Lab Control Sample Dup	Total/NA	Solid	WDNR	428058

QC Association Summary

Client: TRC Environmental Corporation.
Project/Site: STH 11 Kentucky to Kearney - 275788

TestAmerica Job ID: 500-127625-1

GC Semi VOA

Prep Batch: 384574

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-127625-6	GP-28 (6-8)	Total/NA	Solid	WI DRO PREP	
MB 500-384574/1-A	Method Blank	Total/NA	Solid	WI DRO PREP	
LCS 500-384574/2-A	Lab Control Sample	Total/NA	Solid	WI DRO PREP	
LCS 500-384574/3-A	Lab Control Sample Dup	Total/NA	Solid	WI DRO PREP	

Analysis Batch: 384623

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-127625-6	GP-28 (6-8)	Total/NA	Solid	WI-DRO	384574
MB 500-384574/1-A	Method Blank	Total/NA	Solid	WI-DRO	384574
LCS 500-384574/2-A	Lab Control Sample	Total/NA	Solid	WI-DRO	384574
LCS 500-384574/3-A	Lab Control Sample Dup	Total/NA	Solid	WI-DRO	384574

Prep Batch: 384839

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-127625-6	GP-28 (6-8)	Total/NA	Solid	3541	
MB 500-384839/1-A	Method Blank	Total/NA	Solid	3541	
LCS 500-384839/2-A	Lab Control Sample	Total/NA	Solid	3541	

Analysis Batch: 384912

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-127625-6	GP-28 (6-8)	Total/NA	Solid	8082A	384839
MB 500-384839/1-A	Method Blank	Total/NA	Solid	8082A	384839
LCS 500-384839/2-A	Lab Control Sample	Total/NA	Solid	8082A	384839

Metals

Leach Batch: 383992

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-127625-6	GP-28 (6-8)	TCLP	Solid	1311	
LB 500-383992/1-C	Method Blank	TCLP	Solid	1311	
LB 500-383992/1-D	Method Blank	TCLP	Solid	1311	
500-127625-6 MS	GP-28 (6-8)	TCLP	Solid	1311	
500-127625-6 DU	GP-28 (6-8)	TCLP	Solid	1311	

Prep Batch: 384187

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-127625-6	GP-28 (6-8)	TCLP	Solid	3010A	383992
LB 500-383992/1-C	Method Blank	TCLP	Solid	3010A	383992
LCS 500-384187/2-A	Lab Control Sample	Total/NA	Solid	3010A	

Prep Batch: 384260

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-127625-6	GP-28 (6-8)	TCLP	Solid	7470A	383992
LB 500-383992/1-D	Method Blank	TCLP	Solid	7470A	383992
MB 500-384260/12-A	Method Blank	Total/NA	Solid	7470A	
LCS 500-384260/13-A	Lab Control Sample	Total/NA	Solid	7470A	
500-127625-6 MS	GP-28 (6-8)	TCLP	Solid	7470A	383992
500-127625-6 DU	GP-28 (6-8)	TCLP	Solid	7470A	383992

TestAmerica Chicago

QC Association Summary

Client: TRC Environmental Corporation.
Project/Site: STH 11 Kentucky to Kearney - 275788

TestAmerica Job ID: 500-127625-1

Metals (Continued)

Analysis Batch: 384328

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-127625-6	GP-28 (6-8)	TCLP	Solid	6010B	384187
LB 500-383992/1-C	Method Blank	TCLP	Solid	6010B	384187
LCS 500-384187/2-A	Lab Control Sample	Total/NA	Solid	6010B	384187

Analysis Batch: 384394

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-127625-6	GP-28 (6-8)	TCLP	Solid	7470A	384260
LB 500-383992/1-D	Method Blank	TCLP	Solid	7470A	384260
MB 500-384260/12-A	Method Blank	Total/NA	Solid	7470A	384260
LCS 500-384260/13-A	Lab Control Sample	Total/NA	Solid	7470A	384260
500-127625-6 MS	GP-28 (6-8)	TCLP	Solid	7470A	384260
500-127625-6 DU	GP-28 (6-8)	TCLP	Solid	7470A	384260

General Chemistry

Analysis Batch: 383924

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-127625-6	GP-28 (6-8)	Total/NA	Solid	Moisture	
500-127625-11	GP-30 (2-4)	Total/NA	Solid	Moisture	
500-127625-12	GP-30 (6-8)	Total/NA	Solid	Moisture	
500-127625-13	GP-30 (14-16)	Total/NA	Solid	Moisture	
500-127625-14	GP-31 (2-4)	Total/NA	Solid	Moisture	
500-127625-15	GP-31 (6-8)	Total/NA	Solid	Moisture	
500-127625-16	GP-32 (2-4)	Total/NA	Solid	Moisture	
500-127625-17	GP-32 (6-8)	Total/NA	Solid	Moisture	
500-127625-18	GP-32 (14-16)	Total/NA	Solid	Moisture	
500-127625-19	GP-33 (2-4)	Total/NA	Solid	Moisture	
500-127625-20	GP-33 (6-8)	Total/NA	Solid	Moisture	
500-127625-21	Trip Blank	Total/NA	Solid	Moisture	

Analysis Batch: 384553

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-127625-6	GP-28 (6-8)	Total/NA	Solid	9045C	

Analysis Batch: 385047

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-127625-6	GP-28 (6-8)	Total/NA	Solid	SM 2710F	
500-127625-6 MS	GP-28 (6-8)	Total/NA	Solid	SM 2710F	

Prep Batch: 385217

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-127625-6	GP-28 (6-8)	Total/NA	Solid	9010B	
MB 500-385217/1-A	Method Blank	Total/NA	Solid	9010B	
LCS 500-385217/2-A	Lab Control Sample	Total/NA	Solid	9010B	
500-127625-6 MS	GP-28 (6-8)	Total/NA	Solid	9010B	
500-127625-6 MSD	GP-28 (6-8)	Total/NA	Solid	9010B	

Prep Batch: 385245

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-127625-6	GP-28 (6-8)	Total/NA	Solid	9030B	

TestAmerica Chicago

QC Association Summary

Client: TRC Environmental Corporation.
 Project/Site: STH 11 Kentucky to Kearney - 275788

TestAmerica Job ID: 500-127625-1

General Chemistry (Continued)

Prep Batch: 385245 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 500-385245/1-A	Method Blank	Total/NA	Solid	9030B	
LCS 500-385245/2-A	Lab Control Sample	Total/NA	Solid	9030B	

Analysis Batch: 385286

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-127625-6	GP-28 (6-8)	Total/NA	Solid	9095A	

Analysis Batch: 385288

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-127625-6	GP-28 (6-8)	Total/NA	Solid	1010	

Analysis Batch: 385342

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-127625-6	GP-28 (6-8)	Total/NA	Solid	9014	385217
MB 500-385217/1-A	Method Blank	Total/NA	Solid	9014	385217
LCS 500-385217/2-A	Lab Control Sample	Total/NA	Solid	9014	385217
500-127625-6 MS	GP-28 (6-8)	Total/NA	Solid	9014	385217
500-127625-6 MSD	GP-28 (6-8)	Total/NA	Solid	9014	385217

Analysis Batch: 385402

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-127625-6	GP-28 (6-8)	Total/NA	Solid	9034	385245
MB 500-385245/1-A	Method Blank	Total/NA	Solid	9034	385245
LCS 500-385245/2-A	Lab Control Sample	Total/NA	Solid	9034	385245

Analysis Batch: 428284

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-127625-1	GP-26 (2-4)	Total/NA	Solid	Moisture	
500-127625-2	GP-26 (6-8)	Total/NA	Solid	Moisture	
500-127625-3	GP-27 (2-4)	Total/NA	Solid	Moisture	
500-127625-4	GP-27 (6-8)	Total/NA	Solid	Moisture	
500-127625-5	GP-28 (2-4)	Total/NA	Solid	Moisture	
500-127625-6	GP-28 (6-8)	Total/NA	Solid	Moisture	
500-127625-7	GP-28 (14-16)	Total/NA	Solid	Moisture	
500-127625-8	GP-29 (2-4)	Total/NA	Solid	Moisture	
500-127625-9	GP-29 (6-8)	Total/NA	Solid	Moisture	
500-127625-10	GP-29 (14-16)	Total/NA	Solid	Moisture	

Surrogate Summary

Client: TRC Environmental Corporation.
Project/Site: STH 11 Kentucky to Kearney - 275788

TestAmerica Job ID: 500-127625-1

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 (75-126)	BFB (72-124)	DBFM (75-120)	TOL (75-120)
500-127625-11	GP-30 (2-4)	112	111	92	100
500-127625-11 MS	GP-30 (2-4)	117	116	100	99
500-127625-11 MSD	GP-30 (2-4)	120	116	101	99
500-127625-12	GP-30 (6-8)	115	115	94	102
500-127625-13	GP-30 (14-16)	118	116	97	101
500-127625-14	GP-31 (2-4)	114	113	93	99
500-127625-15	GP-31 (6-8)	115	115	95	101
500-127625-16	GP-32 (2-4)	115	116	94	100
500-127625-17	GP-32 (6-8)	114	115	95	100
500-127625-18	GP-32 (14-16)	114	116	96	99
500-127625-19	GP-33 (2-4)	113	114	94	101
500-127625-20	GP-33 (6-8)	115	115	93	98
500-127625-21	Trip Blank	114	115	96	100
LCS 500-384262/4	Lab Control Sample	103	109	93	102
LCS 500-385468/4	Lab Control Sample	111	114	95	103
MB 500-384262/6	Method Blank	105	114	89	100
MB 500-385468/6	Method Blank	112	116	94	103

Surrogate Legend

12DCE = 1,2-Dichloroethane-d4 (Surr)

BFB = 4-Bromofluorobenzene (Surr)

DBFM = Dibromofluoromethane

TOL = Toluene-d8 (Surr)

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

Matrix: Solid

Prep Type: TCLP

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		12DCE (75-126)	BFB (72-124)	DBFM (75-120)	TOL (75-120)
500-127625-6	GP-28 (6-8)	98	111	87	103
LB 500-384086/1-A	Method Blank	104	110	89	97

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)					
		TBP (40-145)	FBP (34-110)	2FP (27-110)	NBZ (36-120)	PHL (20-100)	TPH (40-145)
LCS 500-384171/2-A	Lab Control Sample	98	87	61	92	44	103
MB 500-384171/1-A	Method Blank	90	90	65	97	43	107

Surrogate Legend

TBP = 2,4,6-Tribromophenol (Surr)

TestAmerica Chicago

Surrogate Summary

Client: TRC Environmental Corporation.
Project/Site: STH 11 Kentucky to Kearney - 275788

TestAmerica Job ID: 500-127625-1

FBP = 2-Fluorobiphenyl
2FP = 2-Fluorophenol (Surr)
NBZ = Nitrobenzene-d5 (Surr)
PHL = Phenol-d5 (Surr)
TPH = Terphenyl-d14 (Surr)

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

Matrix: Solid

Prep Type: TCLP

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)					
		TBP (40-145)	FBP (34-110)	2FP (27-110)	NBZ (36-120)	PHL (20-100)	TPH (40-145)
500-127625-6	GP-28 (6-8)	89	85	58	91	39	103
LB 500-383992/1-B	Method Blank	90	84	56	94	39	104

Surrogate Legend

TBP = 2,4,6-Tribromophenol (Surr)
FBP = 2-Fluorobiphenyl
2FP = 2-Fluorophenol (Surr)
NBZ = Nitrobenzene-d5 (Surr)
PHL = Phenol-d5 (Surr)
TPH = Terphenyl-d14 (Surr)

Method: WDNR - Wisconsin - Gasoline Range Organics (GC)

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)	
		TFT (80-120)	TFT (80-120)
500-127625-1	GP-26 (2-4)	84	84
500-127625-2	GP-26 (6-8)	86	86
500-127625-3	GP-27 (2-4)	87	87
500-127625-4	GP-27 (6-8)	87	87
500-127625-5	GP-28 (2-4)	87	87
500-127625-6	GP-28 (6-8)	87	87
500-127625-7	GP-28 (14-16)	86	86
500-127625-8	GP-29 (2-4)	87	87
500-127625-9	GP-29 (6-8)	87	87
500-127625-10	GP-29 (14-16)	86	86
LCS 490-428058/2-A	Lab Control Sample	90	90
LCS 490-428058/3-A	Lab Control Sample Dup	86	86
MB 490-428058/1-A	Method Blank	85	85

Surrogate Legend

TFT = a,a,a-Trifluorotoluene

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

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)	
		TCX1 (49-129)	DCB1 (37-121)
500-127625-6	GP-28 (6-8)	77	90
LCS 500-384839/2-A	Lab Control Sample	77	88
MB 500-384839/1-A	Method Blank	79	89

TestAmerica Chicago

Surrogate Summary

Client: TRC Environmental Corporation.
Project/Site: STH 11 Kentucky to Kearney - 275788

TestAmerica Job ID: 500-127625-1

Surrogate Legend

TCX = Tetrachloro-m-xylene

DCB = DCB Decachlorobiphenyl

Method: WI-DRO - Wisconsin - Diesel Range Organics (GC)

Matrix: Solid

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	C9 (44-148)
500-127625-6	GP-28 (6-8)	73
LCS 500-384574/2-A	Lab Control Sample	84
LCSD 500-384574/3-A	Lab Control Sample Dup	85
MB 500-384574/1-A	Method Blank	80

Surrogate Legend

C9 = n-Nonane

QC Sample Results

Client: TRC Environmental Corporation.
 Project/Site: STH 11 Kentucky to Kearney - 275788

TestAmerica Job ID: 500-127625-1

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

Lab Sample ID: 500-127625-11 MS

Matrix: Solid

Analysis Batch: 385468

Client Sample ID: GP-30 (2-4)

Prep Type: Total/NA

Prep Batch: 384048

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
1,1,1,2-Tetrachloroethane	<33		3530	2930		ug/Kg	☼	83	70 - 125
1,1,1-Trichloroethane	<27		3530	3140		ug/Kg	☼	89	70 - 125
1,1,2,2-Tetrachloroethane	<28		3530	3600		ug/Kg	☼	102	67 - 127
1,1,2-Trichloroethane	<25		3530	3340		ug/Kg	☼	95	70 - 122
1,1-Dichloroethane	<29		3530	3140		ug/Kg	☼	89	70 - 125
1,1-Dichloroethene	<27		3530	2900		ug/Kg	☼	82	67 - 122
1,1-Dichloropropene	<21		3530	3190		ug/Kg	☼	90	70 - 121
1,2,3-Trichlorobenzene	<32		3530	3720		ug/Kg	☼	106	55 - 140
1,2,3-Trichloropropane	<29		3530	3530		ug/Kg	☼	100	50 - 133
1,2,4-Trichlorobenzene	<24		3530	3050		ug/Kg	☼	87	66 - 127
1,2,4-Trimethylbenzene	<25		3530	3530		ug/Kg	☼	100	70 - 123
1,2-Dibromo-3-Chloropropane	<140		3530	3490		ug/Kg	☼	99	56 - 123
1,2-Dibromoethane	<27		3530	3360		ug/Kg	☼	95	70 - 125
1,2-Dichlorobenzene	<24		3530	3300		ug/Kg	☼	94	70 - 125
1,2-Dichloroethane	<28		3530	3730		ug/Kg	☼	106	68 - 127
1,2-Dichloropropane	<30		3530	3160		ug/Kg	☼	90	67 - 130
1,3,5-Trimethylbenzene	<27		3530	3530		ug/Kg	☼	100	70 - 123
1,3-Dichlorobenzene	<28		3530	3200		ug/Kg	☼	91	70 - 125
1,3-Dichloropropane	<26		3530	3620		ug/Kg	☼	103	62 - 136
1,4-Dichlorobenzene	<26		3530	3260		ug/Kg	☼	93	70 - 120
2,2-Dichloropropane	<31		3530	3230		ug/Kg	☼	92	58 - 129
2-Chlorotoluene	<22		3530	3720		ug/Kg	☼	105	70 - 125
4-Chlorotoluene	<25		3530	3640		ug/Kg	☼	103	68 - 124
Benzene	<10		3530	3110		ug/Kg	☼	88	70 - 120
Bromobenzene	<25		3530	3420		ug/Kg	☼	97	70 - 122
Bromochloromethane	<30		3530	3110		ug/Kg	☼	88	65 - 122
Bromodichloromethane	<26		3530	3250		ug/Kg	☼	92	69 - 120
Bromoform	<34		3530	2540		ug/Kg	☼	72	56 - 132
Bromomethane	<56		3530	2570		ug/Kg	☼	73	40 - 130
Carbon tetrachloride	<27		3530	2890		ug/Kg	☼	82	65 - 122
Chlorobenzene	<27		3530	3160		ug/Kg	☼	90	70 - 120
Chloroethane	<36		3530	2410		ug/Kg	☼	68	45 - 127
Chloroform	<26		3530	3460		ug/Kg	☼	98	70 - 120
Chloromethane	<23		3530	2840		ug/Kg	☼	81	54 - 147
cis-1,2-Dichloroethene	710	F1	3530	3150	F1	ug/Kg	☼	69	70 - 125
cis-1,3-Dichloropropane	<29		3530	3240		ug/Kg	☼	92	64 - 127
Dibromochloromethane	<34		3530	2920		ug/Kg	☼	83	68 - 125
Dibromomethane	<19		3530	3380		ug/Kg	☼	96	70 - 120
Dichlorodifluoromethane	<48		3530	3370		ug/Kg	☼	96	40 - 150
Ethylbenzene	<13		3530	3240		ug/Kg	☼	92	70 - 120
Hexachlorobutadiene	<31		3530	3070		ug/Kg	☼	87	51 - 150
Isopropylbenzene	<27		3530	3490		ug/Kg	☼	99	70 - 126
Methyl tert-butyl ether	<28		3530	3500		ug/Kg	☼	99	70 - 120
Methylene Chloride	<110		3530	3220		ug/Kg	☼	91	69 - 125
Naphthalene	<24		3530	3290		ug/Kg	☼	93	59 - 130
n-Butylbenzene	<27		3530	3290		ug/Kg	☼	93	68 - 125
N-Propylbenzene	<29		3530	3550		ug/Kg	☼	101	69 - 127
p-Isopropyltoluene	<26		3530	3270		ug/Kg	☼	93	70 - 125

TestAmerica Chicago

QC Sample Results

Client: TRC Environmental Corporation.
Project/Site: STH 11 Kentucky to Kearney - 275788

TestAmerica Job ID: 500-127625-1

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

Lab Sample ID: 500-127625-11 MS

Matrix: Solid

Analysis Batch: 385468

Client Sample ID: GP-30 (2-4)

Prep Type: Total/NA

Prep Batch: 384048

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	Limits	
	Result	Qualifier	Added	Result	Qualifier					
sec-Butylbenzene	<28		3530	3380		ug/Kg	☼	96	70 - 123	
Styrene	<27		3530	3190		ug/Kg	☼	91	70 - 120	
tert-Butylbenzene	<28		3530	3400		ug/Kg	☼	97	70 - 121	
Tetrachloroethene	<26		3530	2750		ug/Kg	☼	78	70 - 128	
Toluene	<10		3530	3260		ug/Kg	☼	93	70 - 125	
trans-1,2-Dichloroethene	<25		3530	3030		ug/Kg	☼	86	70 - 125	
trans-1,3-Dichloropropene	<26		3530	3130		ug/Kg	☼	89	62 - 128	
Trichloroethene	1100	F1	3530	2860	F1	ug/Kg	☼	49	70 - 125	
Trichlorofluoromethane	<30	*	3530	3970		ug/Kg	☼	113	70 - 126	
Vinyl chloride	<18		3530	2990		ug/Kg	☼	85	64 - 126	
Xylenes, Total	<16		7050	6510		ug/Kg	☼	92	70 - 125	
MS MS										
Surrogate	%Recovery	Qualifier	Limits							
1,2-Dichloroethane-d4 (Surr)	117		75 - 126							
4-Bromofluorobenzene (Surr)	116		72 - 124							
Dibromofluoromethane	100		75 - 120							
Toluene-d8 (Surr)	99		75 - 120							

Lab Sample ID: 500-127625-11 MSD

Matrix: Solid

Analysis Batch: 385468

Client Sample ID: GP-30 (2-4)

Prep Type: Total/NA

Prep Batch: 384048

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	Limits	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier						
1,1,1,2-Tetrachloroethane	<33		3530	2960		ug/Kg	☼	84	70 - 125	1	30
1,1,1-Trichloroethane	<27		3530	3180		ug/Kg	☼	90	70 - 125	1	30
1,1,1,2,2-Tetrachloroethane	<28		3530	3650		ug/Kg	☼	103	67 - 127	1	30
1,1,2-Trichloroethane	<25		3530	3390		ug/Kg	☼	96	70 - 122	1	30
1,1-Dichloroethane	<29		3530	3120		ug/Kg	☼	88	70 - 125	1	30
1,1-Dichloroethene	<27		3530	2850		ug/Kg	☼	81	67 - 122	2	30
1,1-Dichloropropene	<21		3530	3240		ug/Kg	☼	92	70 - 121	2	30
1,2,3-Trichlorobenzene	<32		3530	3680		ug/Kg	☼	105	55 - 140	1	30
1,2,3-Trichloropropane	<29		3530	3410		ug/Kg	☼	97	50 - 133	3	30
1,2,4-Trichlorobenzene	<24		3530	3010		ug/Kg	☼	85	66 - 127	2	30
1,2,4-Trimethylbenzene	<25		3530	3450		ug/Kg	☼	98	70 - 123	2	30
1,2-Dibromo-3-Chloropropane	<140		3530	3480		ug/Kg	☼	99	56 - 123	0	30
1,2-Dibromoethane	<27		3530	3410		ug/Kg	☼	97	70 - 125	1	30
1,2-Dichlorobenzene	<24		3530	3220		ug/Kg	☼	91	70 - 125	3	30
1,2-Dichloroethane	<28		3530	3610		ug/Kg	☼	102	68 - 127	3	30
1,2-Dichloropropane	<30		3530	3110		ug/Kg	☼	88	67 - 130	2	30
1,3,5-Trimethylbenzene	<27		3530	3450		ug/Kg	☼	98	70 - 123	2	30
1,3-Dichlorobenzene	<28		3530	3110		ug/Kg	☼	88	70 - 125	3	30
1,3-Dichloropropane	<26		3530	3610		ug/Kg	☼	102	62 - 136	0	30
1,4-Dichlorobenzene	<26		3530	3170		ug/Kg	☼	90	70 - 120	3	30
2,2-Dichloropropane	<31		3530	3220		ug/Kg	☼	91	58 - 129	0	30
2-Chlorotoluene	<22		3530	3600		ug/Kg	☼	102	70 - 125	3	30
4-Chlorotoluene	<25		3530	3560		ug/Kg	☼	101	68 - 124	2	30
Benzene	<10		3530	3090		ug/Kg	☼	88	70 - 120	1	30
Bromobenzene	<25		3530	3380		ug/Kg	☼	96	70 - 122	1	30

TestAmerica Chicago

QC Sample Results

Client: TRC Environmental Corporation.
Project/Site: STH 11 Kentucky to Kearney - 275788

TestAmerica Job ID: 500-127625-1

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

Lab Sample ID: 500-127625-11 MSD

Matrix: Solid

Analysis Batch: 385468

Client Sample ID: GP-30 (2-4)

Prep Type: Total/NA

Prep Batch: 384048

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier						
Bromochloromethane	<30		3530	3090		ug/Kg	☼	88	65 - 122	1	30
Bromodichloromethane	<26		3530	3280		ug/Kg	☼	93	69 - 120	1	30
Bromoform	<34		3530	2610		ug/Kg	☼	74	56 - 132	3	30
Bromomethane	<56		3530	2600		ug/Kg	☼	74	40 - 130	1	30
Carbon tetrachloride	<27		3530	2940		ug/Kg	☼	84	65 - 122	2	30
Chlorobenzene	<27		3530	3170		ug/Kg	☼	90	70 - 120	0	30
Chloroethane	<36		3530	2390		ug/Kg	☼	68	45 - 127	1	30
Chloroform	<26		3530	3400		ug/Kg	☼	96	70 - 120	2	30
Chloromethane	<23		3530	2880		ug/Kg	☼	82	54 - 147	1	30
cis-1,2-Dichloroethene	710	F1	3530	3100	F1	ug/Kg	☼	68	70 - 125	1	30
cis-1,3-Dichloropropene	<29		3530	3280		ug/Kg	☼	93	64 - 127	1	30
Dibromochloromethane	<34		3530	2980		ug/Kg	☼	85	68 - 125	2	30
Dibromomethane	<19		3530	3420		ug/Kg	☼	97	70 - 120	1	30
Dichlorodifluoromethane	<48		3530	3380		ug/Kg	☼	96	40 - 150	0	30
Ethylbenzene	<13		3530	3180		ug/Kg	☼	90	70 - 120	2	30
Hexachlorobutadiene	<31		3530	3100		ug/Kg	☼	88	51 - 150	1	30
Isopropylbenzene	<27		3530	3420		ug/Kg	☼	97	70 - 126	2	30
Methyl tert-butyl ether	<28		3530	3510		ug/Kg	☼	100	70 - 120	1	30
Methylene Chloride	<110		3530	3220		ug/Kg	☼	91	69 - 125	0	30
Naphthalene	<24		3530	3300		ug/Kg	☼	94	59 - 130	0	30
n-Butylbenzene	<27		3530	3230		ug/Kg	☼	92	68 - 125	2	30
N-Propylbenzene	<29		3530	3500		ug/Kg	☼	99	69 - 127	1	30
p-Isopropyltoluene	<26		3530	3200		ug/Kg	☼	91	70 - 125	2	30
sec-Butylbenzene	<28		3530	3340		ug/Kg	☼	95	70 - 123	1	30
Styrene	<27		3530	3230		ug/Kg	☼	92	70 - 120	1	30
tert-Butylbenzene	<28		3530	3350		ug/Kg	☼	95	70 - 121	2	30
Tetrachloroethene	<26		3530	2800		ug/Kg	☼	80	70 - 128	2	30
Toluene	<10		3530	3250		ug/Kg	☼	92	70 - 125	0	30
trans-1,2-Dichloroethene	<25		3530	3030		ug/Kg	☼	86	70 - 125	0	30
trans-1,3-Dichloropropene	<26		3530	3170		ug/Kg	☼	90	62 - 128	1	30
Trichloroethene	1100	F1	3530	2840	F1	ug/Kg	☼	49	70 - 125	1	30
Trichlorofluoromethane	<30	*	3530	4210		ug/Kg	☼	120	70 - 126	6	30
Vinyl chloride	<18		3530	3050		ug/Kg	☼	87	64 - 126	2	30
Xylenes, Total	<16		7050	6510		ug/Kg	☼	92	70 - 125	0	30

Surrogate	MSD	MSD	Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	120		75 - 126
4-Bromofluorobenzene (Surr)	116		72 - 124
Dibromofluoromethane	101		75 - 120
Toluene-d8 (Surr)	99		75 - 120

Lab Sample ID: MB 500-384262/6

Matrix: Solid

Analysis Batch: 384262

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
1,1-Dichloroethene	<0.00050		0.0010	0.00050	mg/L			05/08/17 22:32	1
Methyl Ethyl Ketone	<0.0025		0.0050	0.0025	mg/L			05/08/17 22:32	1

TestAmerica Chicago

QC Sample Results

Client: TRC Environmental Corporation.
Project/Site: STH 11 Kentucky to Kearney - 275788

TestAmerica Job ID: 500-127625-1

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

Lab Sample ID: MB 500-384262/6
Matrix: Solid
Analysis Batch: 384262

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane	<0.00050		0.0010	0.00050	mg/L			05/08/17 22:32	1
Benzene	<0.00050		0.0010	0.00050	mg/L			05/08/17 22:32	1
Carbon tetrachloride	<0.00050		0.0010	0.00050	mg/L			05/08/17 22:32	1
Chlorobenzene	<0.00050		0.0010	0.00050	mg/L			05/08/17 22:32	1
Chloroform	<0.0010		0.0020	0.0010	mg/L			05/08/17 22:32	1
Tetrachloroethene	<0.00050		0.0010	0.00050	mg/L			05/08/17 22:32	1
Trichloroethene	<0.00050		0.0010	0.00050	mg/L			05/08/17 22:32	1
Vinyl chloride	<0.00050		0.0010	0.00050	mg/L			05/08/17 22:32	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	105		75 - 126		05/08/17 22:32	1
4-Bromofluorobenzene (Surr)	114		72 - 124		05/08/17 22:32	1
Dibromofluoromethane	89		75 - 120		05/08/17 22:32	1
Toluene-d8 (Surr)	100		75 - 120		05/08/17 22:32	1

Lab Sample ID: LCS 500-384262/4
Matrix: Solid
Analysis Batch: 384262

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1-Dichloroethene	0.0500	0.0449		mg/L		90	67 - 122
Methyl Ethyl Ketone	0.0500	0.0524		mg/L		105	53 - 141
1,2-Dichloroethane	0.0500	0.0504		mg/L		101	68 - 127
Benzene	0.0500	0.0479		mg/L		96	70 - 120
Carbon tetrachloride	0.0500	0.0453		mg/L		91	65 - 122
Chlorobenzene	0.0500	0.0500		mg/L		100	70 - 120
Chloroform	0.0500	0.0455		mg/L		91	70 - 120
Tetrachloroethene	0.0500	0.0518		mg/L		104	70 - 128
Trichloroethene	0.0500	0.0488		mg/L		98	70 - 125
Vinyl chloride	0.0500	0.0415		mg/L		83	64 - 126

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	103		75 - 126
4-Bromofluorobenzene (Surr)	109		72 - 124
Dibromofluoromethane	93		75 - 120
Toluene-d8 (Surr)	102		75 - 120

Lab Sample ID: MB 500-385468/6
Matrix: Solid
Analysis Batch: 385468

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	<0.46		1.0	0.46	ug/Kg			05/17/17 10:01	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/Kg			05/17/17 10:01	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/Kg			05/17/17 10:01	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/Kg			05/17/17 10:01	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/Kg			05/17/17 10:01	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/Kg			05/17/17 10:01	1

TestAmerica Chicago

QC Sample Results

Client: TRC Environmental Corporation.
 Project/Site: STH 11 Kentucky to Kearney - 275788

TestAmerica Job ID: 500-127625-1

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

Lab Sample ID: MB 500-385468/6
Matrix: Solid
Analysis Batch: 385468

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
1,1-Dichloropropene	<0.30		1.0	0.30	ug/Kg			05/17/17 10:01	1
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/Kg			05/17/17 10:01	1
1,2,3-Trichloropropane	<0.41		1.0	0.41	ug/Kg			05/17/17 10:01	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/Kg			05/17/17 10:01	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/Kg			05/17/17 10:01	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/Kg			05/17/17 10:01	1
1,2-Dibromoethane	<0.39		1.0	0.39	ug/Kg			05/17/17 10:01	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/Kg			05/17/17 10:01	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/Kg			05/17/17 10:01	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/Kg			05/17/17 10:01	1
1,3,5-Trimethylbenzene	<0.38		1.0	0.38	ug/Kg			05/17/17 10:01	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/Kg			05/17/17 10:01	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/Kg			05/17/17 10:01	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/Kg			05/17/17 10:01	1
2,2-Dichloropropane	<0.44		1.0	0.44	ug/Kg			05/17/17 10:01	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/Kg			05/17/17 10:01	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/Kg			05/17/17 10:01	1
Benzene	<0.15		0.25	0.15	ug/Kg			05/17/17 10:01	1
Bromobenzene	<0.36		1.0	0.36	ug/Kg			05/17/17 10:01	1
Bromochloromethane	<0.43		1.0	0.43	ug/Kg			05/17/17 10:01	1
Bromodichloromethane	<0.37		1.0	0.37	ug/Kg			05/17/17 10:01	1
Bromoform	<0.48		1.0	0.48	ug/Kg			05/17/17 10:01	1
Bromomethane	<0.80		2.0	0.80	ug/Kg			05/17/17 10:01	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/Kg			05/17/17 10:01	1
Chlorobenzene	<0.39		1.0	0.39	ug/Kg			05/17/17 10:01	1
Chloroethane	<0.50		1.0	0.50	ug/Kg			05/17/17 10:01	1
Chloroform	<0.37		2.0	0.37	ug/Kg			05/17/17 10:01	1
Chloromethane	<0.32		1.0	0.32	ug/Kg			05/17/17 10:01	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/Kg			05/17/17 10:01	1
cis-1,3-Dichloropropane	<0.42		1.0	0.42	ug/Kg			05/17/17 10:01	1
Dibromochloromethane	<0.49		1.0	0.49	ug/Kg			05/17/17 10:01	1
Dibromomethane	<0.27		1.0	0.27	ug/Kg			05/17/17 10:01	1
Dichlorodifluoromethane	<0.67		2.0	0.67	ug/Kg			05/17/17 10:01	1
Ethylbenzene	<0.18		0.25	0.18	ug/Kg			05/17/17 10:01	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/Kg			05/17/17 10:01	1
Isopropyl ether	<0.28		1.0	0.28	ug/Kg			05/17/17 10:01	1
Isopropylbenzene	<0.38		1.0	0.38	ug/Kg			05/17/17 10:01	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/Kg			05/17/17 10:01	1
Methylene Chloride	<1.6		5.0	1.6	ug/Kg			05/17/17 10:01	1
Naphthalene	<0.33		1.0	0.33	ug/Kg			05/17/17 10:01	1
n-Butylbenzene	<0.39		1.0	0.39	ug/Kg			05/17/17 10:01	1
N-Propylbenzene	<0.41		1.0	0.41	ug/Kg			05/17/17 10:01	1
p-Isopropyltoluene	<0.36		1.0	0.36	ug/Kg			05/17/17 10:01	1
sec-Butylbenzene	<0.40		1.0	0.40	ug/Kg			05/17/17 10:01	1
Styrene	<0.39		1.0	0.39	ug/Kg			05/17/17 10:01	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/Kg			05/17/17 10:01	1
Tetrachloroethene	<0.37		1.0	0.37	ug/Kg			05/17/17 10:01	1
Toluene	<0.15		0.25	0.15	ug/Kg			05/17/17 10:01	1

TestAmerica Chicago

QC Sample Results

Client: TRC Environmental Corporation.
 Project/Site: STH 11 Kentucky to Kearney - 275788

TestAmerica Job ID: 500-127625-1

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

Lab Sample ID: MB 500-385468/6
Matrix: Solid
Analysis Batch: 385468

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/Kg			05/17/17 10:01	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/Kg			05/17/17 10:01	1
Trichloroethene	<0.16		0.50	0.16	ug/Kg			05/17/17 10:01	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/Kg			05/17/17 10:01	1
Vinyl chloride	<0.26		0.50	0.26	ug/Kg			05/17/17 10:01	1
Xylenes, Total	<0.22		0.50	0.22	ug/Kg			05/17/17 10:01	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	112		75 - 126		05/17/17 10:01	1
4-Bromofluorobenzene (Surr)	116		72 - 124		05/17/17 10:01	1
Dibromofluoromethane	94		75 - 120		05/17/17 10:01	1
Toluene-d8 (Surr)	103		75 - 120		05/17/17 10:01	1

Lab Sample ID: LCS 500-385468/4
Matrix: Solid
Analysis Batch: 385468

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	41.6		ug/Kg		83	70 - 125
1,1,1-Trichloroethane	50.0	46.7		ug/Kg		93	70 - 125
1,1,2,2-Tetrachloroethane	50.0	49.4		ug/Kg		99	67 - 127
1,1,2-Trichloroethane	50.0	46.7		ug/Kg		93	70 - 122
1,1-Dichloroethane	50.0	43.4		ug/Kg		87	70 - 125
1,1-Dichloroethene	50.0	42.5		ug/Kg		85	67 - 122
1,1-Dichloropropene	50.0	48.1		ug/Kg		96	70 - 121
1,2,3-Trichlorobenzene	50.0	54.5		ug/Kg		109	55 - 140
1,2,3-Trichloropropane	50.0	47.2		ug/Kg		94	50 - 133
1,2,4-Trichlorobenzene	50.0	47.1		ug/Kg		94	66 - 127
1,2,4-Trimethylbenzene	50.0	49.8		ug/Kg		100	70 - 123
1,2-Dibromo-3-Chloropropane	50.0	49.4		ug/Kg		99	56 - 123
1,2-Dibromoethane	50.0	47.6		ug/Kg		95	70 - 125
1,2-Dichlorobenzene	50.0	45.5		ug/Kg		91	70 - 125
1,2-Dichloroethane	50.0	49.4		ug/Kg		99	68 - 127
1,2-Dichloropropane	50.0	42.8		ug/Kg		86	67 - 130
1,3,5-Trimethylbenzene	50.0	50.2		ug/Kg		100	70 - 123
1,3-Dichlorobenzene	50.0	45.9		ug/Kg		92	70 - 125
1,3-Dichloropropane	50.0	50.1		ug/Kg		100	62 - 136
1,4-Dichlorobenzene	50.0	45.5		ug/Kg		91	70 - 120
2,2-Dichloropropane	50.0	50.1		ug/Kg		100	58 - 129
2-Chlorotoluene	50.0	51.3		ug/Kg		103	70 - 125
4-Chlorotoluene	50.0	51.7		ug/Kg		103	68 - 124
Benzene	50.0	43.4		ug/Kg		87	70 - 120
Bromobenzene	50.0	46.9		ug/Kg		94	70 - 122
Bromochloromethane	50.0	42.2		ug/Kg		84	65 - 122
Bromodichloromethane	50.0	45.6		ug/Kg		91	69 - 120
Bromoform	50.0	36.0		ug/Kg		72	56 - 132
Bromomethane	50.0	39.7		ug/Kg		79	40 - 130
Carbon tetrachloride	50.0	44.5		ug/Kg		89	65 - 122

TestAmerica Chicago

QC Sample Results

Client: TRC Environmental Corporation.
 Project/Site: STH 11 Kentucky to Kearney - 275788

TestAmerica Job ID: 500-127625-1

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

Lab Sample ID: LCS 500-385468/4
Matrix: Solid
Analysis Batch: 385468

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chlorobenzene	50.0	45.7		ug/Kg		91	70 - 120
Chloroethane	50.0	41.5		ug/Kg		83	45 - 127
Chloroform	50.0	46.5		ug/Kg		93	70 - 120
Chloromethane	50.0	39.7		ug/Kg		79	54 - 147
cis-1,2-Dichloroethene	50.0	42.6		ug/Kg		85	70 - 125
cis-1,3-Dichloropropene	50.0	47.1		ug/Kg		94	64 - 127
Dibromochloromethane	50.0	40.7		ug/Kg		81	68 - 125
Dibromomethane	50.0	45.4		ug/Kg		91	70 - 120
Dichlorodifluoromethane	50.0	43.7		ug/Kg		87	40 - 150
Ethylbenzene	50.0	46.9		ug/Kg		94	70 - 120
Hexachlorobutadiene	50.0	50.0		ug/Kg		100	51 - 150
Isopropylbenzene	50.0	50.5		ug/Kg		101	70 - 126
Methyl tert-butyl ether	50.0	46.4		ug/Kg		93	70 - 120
Methylene Chloride	50.0	43.7		ug/Kg		87	69 - 125
Naphthalene	50.0	47.7		ug/Kg		95	59 - 130
n-Butylbenzene	50.0	50.6		ug/Kg		101	68 - 125
N-Propylbenzene	50.0	52.9		ug/Kg		106	69 - 127
p-Isopropyltoluene	50.0	48.0		ug/Kg		96	70 - 125
sec-Butylbenzene	50.0	50.2		ug/Kg		100	70 - 123
Styrene	50.0	45.5		ug/Kg		91	70 - 120
tert-Butylbenzene	50.0	49.2		ug/Kg		98	70 - 121
Tetrachloroethene	50.0	42.6		ug/Kg		85	70 - 128
Toluene	50.0	47.9		ug/Kg		96	70 - 125
trans-1,2-Dichloroethene	50.0	43.3		ug/Kg		87	70 - 125
trans-1,3-Dichloropropene	50.0	45.0		ug/Kg		90	62 - 128
Trichloroethene	50.0	41.4		ug/Kg		83	70 - 125
Trichlorofluoromethane	50.0	63.9 *		ug/Kg		128	70 - 126
Vinyl chloride	50.0	44.4		ug/Kg		89	64 - 126
Xylenes, Total	100	94.8		ug/Kg		95	70 - 125

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	111		75 - 126
4-Bromofluorobenzene (Surr)	114		72 - 124
Dibromofluoromethane	95		75 - 120
Toluene-d8 (Surr)	103		75 - 120

Lab Sample ID: LB 500-384086/1-A
Matrix: Solid
Analysis Batch: 384262

Client Sample ID: Method Blank
Prep Type: TCLP

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	<0.010		0.020	0.010	mg/L			05/08/17 23:25	20
Methyl Ethyl Ketone	<0.050		0.10	0.050	mg/L			05/08/17 23:25	20
1,2-Dichloroethane	<0.010		0.020	0.010	mg/L			05/08/17 23:25	20
Benzene	<0.010		0.020	0.010	mg/L			05/08/17 23:25	20
Carbon tetrachloride	<0.010		0.020	0.010	mg/L			05/08/17 23:25	20
Chlorobenzene	<0.010		0.020	0.010	mg/L			05/08/17 23:25	20
Chloroform	<0.020		0.040	0.020	mg/L			05/08/17 23:25	20

TestAmerica Chicago

QC Sample Results

Client: TRC Environmental Corporation.
Project/Site: STH 11 Kentucky to Kearney - 275788

TestAmerica Job ID: 500-127625-1

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

Lab Sample ID: LB 500-384086/1-A
Matrix: Solid
Analysis Batch: 384262

Client Sample ID: Method Blank
Prep Type: TCLP

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	<0.010		0.020	0.010	mg/L			05/08/17 23:25	20
Trichloroethene	<0.010		0.020	0.010	mg/L			05/08/17 23:25	20
Vinyl chloride	<0.010		0.020	0.010	mg/L			05/08/17 23:25	20

Surrogate	LB %Recovery	LB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	104		75 - 126		05/08/17 23:25	20
4-Bromofluorobenzene (Surr)	110		72 - 124		05/08/17 23:25	20
Dibromofluoromethane	89		75 - 120		05/08/17 23:25	20
Toluene-d8 (Surr)	97		75 - 120		05/08/17 23:25	20

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

Lab Sample ID: MB 500-384171/1-A
Matrix: Solid
Analysis Batch: 384241

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 384171

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	<0.0020		0.0020	0.0020	mg/L		05/08/17 07:42	05/08/17 15:01	1
2,4,5-Trichlorophenol	<0.010		0.010	0.010	mg/L		05/08/17 07:42	05/08/17 15:01	1
2,4,6-Trichlorophenol	<0.0050		0.0050	0.0050	mg/L		05/08/17 07:42	05/08/17 15:01	1
2,4-Dinitrotoluene	<0.0010		0.0010	0.0010	mg/L		05/08/17 07:42	05/08/17 15:01	1
2-Methylphenol	<0.0020		0.0020	0.0020	mg/L		05/08/17 07:42	05/08/17 15:01	1
3 & 4 Methylphenol	<0.0020		0.0020	0.0020	mg/L		05/08/17 07:42	05/08/17 15:01	1
Hexachlorobenzene	<0.00050		0.00050	0.00050	mg/L		05/08/17 07:42	05/08/17 15:01	1
Hexachlorobutadiene	<0.0050		0.0050	0.0050	mg/L		05/08/17 07:42	05/08/17 15:01	1
Hexachloroethane	<0.0050		0.0050	0.0050	mg/L		05/08/17 07:42	05/08/17 15:01	1
Nitrobenzene	<0.0010		0.0010	0.0010	mg/L		05/08/17 07:42	05/08/17 15:01	1
Pentachlorophenol	<0.020		0.020	0.020	mg/L		05/08/17 07:42	05/08/17 15:01	1
Pyridine	<0.020		0.020	0.020	mg/L		05/08/17 07:42	05/08/17 15:01	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	90		40 - 145	05/08/17 07:42	05/08/17 15:01	1
2-Fluorobiphenyl	90		34 - 110	05/08/17 07:42	05/08/17 15:01	1
2-Fluorophenol (Surr)	65		27 - 110	05/08/17 07:42	05/08/17 15:01	1
Nitrobenzene-d5 (Surr)	97		36 - 120	05/08/17 07:42	05/08/17 15:01	1
Phenol-d5 (Surr)	43		20 - 100	05/08/17 07:42	05/08/17 15:01	1
Terphenyl-d14 (Surr)	107		40 - 145	05/08/17 07:42	05/08/17 15:01	1

Lab Sample ID: LCS 500-384171/2-A
Matrix: Solid
Analysis Batch: 384241

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 384171

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,4-Dichlorobenzene	0.0400	0.0322		mg/L		81	23 - 110
2,4,5-Trichlorophenol	0.0400	0.0388		mg/L		97	63 - 120
2,4,6-Trichlorophenol	0.0400	0.0393		mg/L		98	62 - 110
2,4-Dinitrotoluene	0.0400	0.0432		mg/L		108	63 - 122

TestAmerica Chicago

QC Sample Results

Client: TRC Environmental Corporation.
Project/Site: STH 11 Kentucky to Kearney - 275788

TestAmerica Job ID: 500-127625-1

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

Lab Sample ID: LCS 500-384171/2-A
Matrix: Solid
Analysis Batch: 384241

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 384171

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
2-Methylphenol	0.0400	0.0342		mg/L		86	53 - 110
3 & 4 Methylphenol	0.0400	0.0329		mg/L		82	53 - 110
Hexachlorobenzene	0.0400	0.0375		mg/L		94	61 - 120
Hexachlorobutadiene	0.0400	0.0315		mg/L		79	20 - 100
Hexachloroethane	0.0400	0.0314		mg/L		79	20 - 100
Nitrobenzene	0.0400	0.0359		mg/L		90	53 - 110
Pentachlorophenol	0.0800	0.0779		mg/L		97	23 - 129
Pyridine	0.0400	0.0259		mg/L		65	15 - 110

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2,4,6-Tribromophenol (Surr)	98		40 - 145
2-Fluorobiphenyl	87		34 - 110
2-Fluorophenol (Surr)	61		27 - 110
Nitrobenzene-d5 (Surr)	92		36 - 120
Phenol-d5 (Surr)	44		20 - 100
Terphenyl-d14 (Surr)	103		40 - 145

Lab Sample ID: LB 500-383992/1-B
Matrix: Solid
Analysis Batch: 384241

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 384171

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	<0.020		0.020	0.020	mg/L		05/08/17 07:42	05/08/17 14:34	1
2,4,5-Trichlorophenol	<0.10		0.10	0.10	mg/L		05/08/17 07:42	05/08/17 14:34	1
2,4,6-Trichlorophenol	<0.050		0.050	0.050	mg/L		05/08/17 07:42	05/08/17 14:34	1
2,4-Dinitrotoluene	<0.010		0.010	0.010	mg/L		05/08/17 07:42	05/08/17 14:34	1
2-Methylphenol	<0.020		0.020	0.020	mg/L		05/08/17 07:42	05/08/17 14:34	1
3 & 4 Methylphenol	<0.020		0.020	0.020	mg/L		05/08/17 07:42	05/08/17 14:34	1
Hexachlorobenzene	<0.0050		0.0050	0.0050	mg/L		05/08/17 07:42	05/08/17 14:34	1
Hexachlorobutadiene	<0.050		0.050	0.050	mg/L		05/08/17 07:42	05/08/17 14:34	1
Hexachloroethane	<0.050		0.050	0.050	mg/L		05/08/17 07:42	05/08/17 14:34	1
Nitrobenzene	<0.010		0.010	0.010	mg/L		05/08/17 07:42	05/08/17 14:34	1
Pentachlorophenol	<0.20		0.20	0.20	mg/L		05/08/17 07:42	05/08/17 14:34	1
Pyridine	<0.20		0.20	0.20	mg/L		05/08/17 07:42	05/08/17 14:34	1

Surrogate	LB %Recovery	LB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	90		40 - 145	05/08/17 07:42	05/08/17 14:34	1
2-Fluorobiphenyl	84		34 - 110	05/08/17 07:42	05/08/17 14:34	1
2-Fluorophenol (Surr)	56		27 - 110	05/08/17 07:42	05/08/17 14:34	1
Nitrobenzene-d5 (Surr)	94		36 - 120	05/08/17 07:42	05/08/17 14:34	1
Phenol-d5 (Surr)	39		20 - 100	05/08/17 07:42	05/08/17 14:34	1
Terphenyl-d14 (Surr)	104		40 - 145	05/08/17 07:42	05/08/17 14:34	1

TestAmerica Chicago

QC Sample Results

Client: TRC Environmental Corporation.
Project/Site: STH 11 Kentucky to Kearney - 275788

TestAmerica Job ID: 500-127625-1

Method: WDNR - Wisconsin - Gasoline Range Organics (GC)

Lab Sample ID: MB 490-428058/1-A

Matrix: Solid

Analysis Batch: 429747

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 428058

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<18		25	18	ug/Kg		05/07/17 11:19	05/13/17 12:17	1
Ethylbenzene	<19		25	19	ug/Kg		05/07/17 11:19	05/13/17 12:17	1
Methyl tert-butyl ether	<12		25	12	ug/Kg		05/07/17 11:19	05/13/17 12:17	1
1,2,4-Trimethylbenzene	<15		25	15	ug/Kg		05/07/17 11:19	05/13/17 12:17	1
Naphthalene	<120		250	120	ug/Kg		05/07/17 11:19	05/13/17 12:17	1
1,3,5-Trimethylbenzene	<15		25	15	ug/Kg		05/07/17 11:19	05/13/17 12:17	1
Toluene	<17		25	17	ug/Kg		05/07/17 11:19	05/13/17 12:17	1
Xylenes, Total	<30		75	30	ug/Kg		05/07/17 11:19	05/13/17 12:17	1
Wisconsin GRO	<2500		5000	2500	ug/Kg		05/07/17 11:19	05/13/17 12:17	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>a,a,a-Trifluorotoluene</i>	85		80 - 120	05/07/17 11:19	05/13/17 12:17	1
<i>a,a,a-Trifluorotoluene</i>	98		80 - 120	05/07/17 11:19	05/13/17 12:17	1

Lab Sample ID: LCS 490-428058/2-A

Matrix: Solid

Analysis Batch: 429747

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 428058

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	5000	5270		ug/Kg		105	76 - 120
Ethylbenzene	5000	5210		ug/Kg		104	77 - 120
Methyl tert-butyl ether	5000	5660		ug/Kg		113	73 - 120
1,2,4-Trimethylbenzene	5000	5170		ug/Kg		103	60 - 140
Naphthalene	5000	5620		ug/Kg		112	74 - 127
1,3,5-Trimethylbenzene	5000	5220		ug/Kg		104	74 - 133
Toluene	5000	5240		ug/Kg		105	79 - 120
Wisconsin GRO	50000	61000	*	ug/Kg		122	80 - 120

Surrogate	LCS %Recovery	LCS Qualifier	Limits
<i>a,a,a-Trifluorotoluene</i>	90		80 - 120
<i>a,a,a-Trifluorotoluene</i>	99		80 - 120

Lab Sample ID: LCSD 490-428058/3-A

Matrix: Solid

Analysis Batch: 429747

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 428058

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	5000	4290		ug/Kg		86	76 - 120	21	27
Ethylbenzene	5000	4260		ug/Kg		85	77 - 120	20	49
Methyl tert-butyl ether	5000	5020		ug/Kg		100	73 - 120	12	31
1,2,4-Trimethylbenzene	5000	4330		ug/Kg		87	60 - 140	18	50
Naphthalene	5000	4920		ug/Kg		98	74 - 127	13	50
1,3,5-Trimethylbenzene	5000	4360		ug/Kg		87	74 - 133	18	42
Toluene	5000	4370		ug/Kg		87	79 - 120	18	37
Wisconsin GRO	50000	51900		ug/Kg		104	80 - 120	16	20

TestAmerica Chicago

QC Sample Results

Client: TRC Environmental Corporation.
 Project/Site: STH 11 Kentucky to Kearney - 275788

TestAmerica Job ID: 500-127625-1

Method: WDNR - Wisconsin - Gasoline Range Organics (GC) (Continued)

Lab Sample ID: LCSD 490-428058/3-A
Matrix: Solid
Analysis Batch: 429747

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 428058

Surrogate	LCSD LCSD		Limits
	%Recovery	Qualifier	
<i>a,a,a-Trifluorotoluene</i>	86		80 - 120
<i>a,a,a-Trifluorotoluene</i>	98		80 - 120

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

Lab Sample ID: MB 500-384839/1-A
Matrix: Solid
Analysis Batch: 384912

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 384839

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
PCB-1016	<5.9		17	5.9	ug/Kg		05/11/17 18:50	05/12/17 09:47	1
PCB-1221	<7.3		17	7.3	ug/Kg		05/11/17 18:50	05/12/17 09:47	1
PCB-1232	<7.3		17	7.3	ug/Kg		05/11/17 18:50	05/12/17 09:47	1
PCB-1242	<5.5		17	5.5	ug/Kg		05/11/17 18:50	05/12/17 09:47	1
PCB-1248	<6.6		17	6.6	ug/Kg		05/11/17 18:50	05/12/17 09:47	1
PCB-1254	<3.6		17	3.6	ug/Kg		05/11/17 18:50	05/12/17 09:47	1
PCB-1260	<8.2		17	8.2	ug/Kg		05/11/17 18:50	05/12/17 09:47	1

Surrogate	MB MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
<i>Tetrachloro-m-xylene</i>	79		49 - 129	05/11/17 18:50	05/12/17 09:47	1
<i>DCB Decachlorobiphenyl</i>	89		37 - 121	05/11/17 18:50	05/12/17 09:47	1

Lab Sample ID: LCS 500-384839/2-A
Matrix: Solid
Analysis Batch: 384912

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 384839

Analyte	Spike Added	LCS LCS		Unit	D	%Rec	Limits
		Result	Qualifier				
PCB-1016	167	142		ug/Kg		85	57 - 120
PCB-1260	167	158		ug/Kg		95	61 - 125

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
<i>Tetrachloro-m-xylene</i>	77		49 - 129
<i>DCB Decachlorobiphenyl</i>	88		37 - 121

Method: WI-DRO - Wisconsin - Diesel Range Organics (GC)

Lab Sample ID: MB 500-384574/1-A
Matrix: Solid
Analysis Batch: 384623

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 384574

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
WI Diesel Range Organics (C10-C28)	<1.6		4.0	1.6	mg/Kg		05/10/17 10:11	05/10/17 15:34	1

Surrogate	MB MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
<i>n-Nonane</i>	80		44 - 148	05/10/17 10:11	05/10/17 15:34	1

TestAmerica Chicago

QC Sample Results

Client: TRC Environmental Corporation.
Project/Site: STH 11 Kentucky to Kearney - 275788

TestAmerica Job ID: 500-127625-1

Method: WI-DRO - Wisconsin - Diesel Range Organics (GC) (Continued)

Lab Sample ID: LCS 500-384574/2-A
Matrix: Solid
Analysis Batch: 384623

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 384574

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
WI Diesel Range Organics (C10-C28)	20.0	18.1		mg/Kg		90	70 - 120
Surrogate		LCS %Recovery	LCS Qualifier				Limits
n-Nonane		84					44 - 148

Lab Sample ID: LCSD 500-384574/3-A
Matrix: Solid
Analysis Batch: 384623

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 384574

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	Limits	RPD	Limit
WI Diesel Range Organics (C10-C28)	20.0	18.8		mg/Kg		94	70 - 120	4	20
Surrogate		LCSD %Recovery	LCSD Qualifier				Limits		
n-Nonane		85					44 - 148		

Method: 6010B - Metals (ICP)

Lab Sample ID: LCS 500-384187/2-A
Matrix: Solid
Analysis Batch: 384328

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 384187

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Arsenic	0.100	0.0958		mg/L		96	80 - 120
Barium	0.500	0.514		mg/L		103	80 - 120
Cadmium	0.0500	0.0503		mg/L		101	80 - 120
Chromium	0.200	0.194		mg/L		97	80 - 120
Copper	0.250	0.254		mg/L		102	80 - 120
Lead	0.100	0.0943		mg/L		94	80 - 120
Nickel	0.500	0.486		mg/L		97	80 - 120
Selenium	0.100	0.0946		mg/L		95	80 - 120
Silver	0.0500	0.0473		mg/L		95	80 - 120
Zinc	0.500	0.457		mg/L		91	80 - 120

Lab Sample ID: LB 500-383992/1-C
Matrix: Solid
Analysis Batch: 384328

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 384187

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.010		0.050	0.010	mg/L		05/08/17 08:10	05/08/17 20:33	1
Barium	<0.050		0.50	0.050	mg/L		05/08/17 08:10	05/08/17 20:33	1
Cadmium	<0.0020		0.0050	0.0020	mg/L		05/08/17 08:10	05/08/17 20:33	1
Chromium	<0.010		0.025	0.010	mg/L		05/08/17 08:10	05/08/17 20:33	1
Copper	<0.010		0.025	0.010	mg/L		05/08/17 08:10	05/08/17 20:33	1
Lead	<0.0075		0.050	0.0075	mg/L		05/08/17 08:10	05/08/17 20:33	1
Nickel	<0.010		0.025	0.010	mg/L		05/08/17 08:10	05/08/17 20:33	1
Selenium	<0.020		0.050	0.020	mg/L		05/08/17 08:10	05/08/17 20:33	1

TestAmerica Chicago

QC Sample Results

Client: TRC Environmental Corporation.
Project/Site: STH 11 Kentucky to Kearney - 275788

TestAmerica Job ID: 500-127625-1

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: LB 500-383992/1-C
Matrix: Solid
Analysis Batch: 384328

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 384187

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	<0.010		0.025	0.010	mg/L		05/08/17 08:10	05/08/17 20:33	1
Zinc	<0.020		0.10	0.020	mg/L		05/08/17 08:10	05/08/17 20:33	1

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 500-384260/12-A
Matrix: Solid
Analysis Batch: 384394

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 384260

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		05/08/17 13:40	05/09/17 10:03	1

Lab Sample ID: LCS 500-384260/13-A
Matrix: Solid
Analysis Batch: 384394

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 384260

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Mercury	0.00200	0.00212		mg/L		106	80 - 120

Lab Sample ID: LB 500-383992/1-D
Matrix: Solid
Analysis Batch: 384394

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 384260

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		05/08/17 13:40	05/09/17 10:06	1

Lab Sample ID: 500-127625-6 MS
Matrix: Solid
Analysis Batch: 384394

Client Sample ID: GP-28 (6-8)
Prep Type: TCLP
Prep Batch: 384260

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Mercury	<0.00020		0.00100	0.000978		mg/L		98	50 - 150

Lab Sample ID: 500-127625-6 DU
Matrix: Solid
Analysis Batch: 384394

Client Sample ID: GP-28 (6-8)
Prep Type: TCLP
Prep Batch: 384260

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
Mercury	<0.00020		<0.00020		mg/L		NC	20

Method: 9014 - Cyanide

Lab Sample ID: MB 500-385217/1-A
Matrix: Solid
Analysis Batch: 385342

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 385217

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.17		0.50	0.17	mg/Kg		05/15/17 17:10	05/15/17 20:20	1

TestAmerica Chicago

QC Sample Results

Client: TRC Environmental Corporation.
 Project/Site: STH 11 Kentucky to Kearney - 275788

TestAmerica Job ID: 500-127625-1

Method: 9014 - Cyanide (Continued)

Lab Sample ID: LCS 500-385217/2-A
Matrix: Solid
Analysis Batch: 385342

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 385217

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Cyanide, Total	5.00	4.75		mg/Kg		95	80 - 120

Lab Sample ID: 500-127625-6 MS
Matrix: Solid
Analysis Batch: 385342

Client Sample ID: GP-28 (6-8)
Prep Type: Total/NA
Prep Batch: 385217

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Cyanide, Total	<0.17		1.91	2.04		mg/Kg		107	75 - 125

Lab Sample ID: 500-127625-6 MSD
Matrix: Solid
Analysis Batch: 385342

Client Sample ID: GP-28 (6-8)
Prep Type: Total/NA
Prep Batch: 385217

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Cyanide, Total	<0.17		1.54	1.71		mg/Kg		111	75 - 125	18	20

Method: 9034 - Sulfide, Acid soluble and Insoluble (Titrimetric)

Lab Sample ID: MB 500-385245/1-A
Matrix: Solid
Analysis Batch: 385402

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 385245

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide	<4.7		10	4.7	mg/Kg		05/15/17 17:36	05/15/17 21:39	1

Lab Sample ID: LCS 500-385245/2-A
Matrix: Solid
Analysis Batch: 385402

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 385245

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Sulfide	338	335		mg/Kg		99	80 - 120

Lab Chronicle

Client: TRC Environmental Corporation.
 Project/Site: STH 11 Kentucky to Kearney - 275788

TestAmerica Job ID: 500-127625-1

Client Sample ID: GP-26 (2-4)

Date Collected: 05/03/17 08:25

Date Received: 05/04/17 10:20

Lab Sample ID: 500-127625-1

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	428284	05/08/17 13:36	BAA	TAL NSH

Client Sample ID: GP-26 (2-4)

Date Collected: 05/03/17 08:25

Date Received: 05/04/17 10:20

Lab Sample ID: 500-127625-1

Matrix: Solid

Percent Solids: 84.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	WI GRO			428058	05/07/17 11:20	JLP	TAL NSH
Total/NA	Analysis	WDNR		1	429747	05/13/17 12:44	A1B	TAL NSH

Client Sample ID: GP-26 (6-8)

Date Collected: 05/03/17 08:30

Date Received: 05/04/17 10:20

Lab Sample ID: 500-127625-2

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	428284	05/08/17 13:36	BAA	TAL NSH

Client Sample ID: GP-26 (6-8)

Date Collected: 05/03/17 08:30

Date Received: 05/04/17 10:20

Lab Sample ID: 500-127625-2

Matrix: Solid

Percent Solids: 86.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	WI GRO			428058	05/07/17 11:20	JLP	TAL NSH
Total/NA	Analysis	WDNR		1	429747	05/13/17 13:11	A1B	TAL NSH

Client Sample ID: GP-27 (2-4)

Date Collected: 05/03/17 08:40

Date Received: 05/04/17 10:20

Lab Sample ID: 500-127625-3

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	428284	05/08/17 13:36	BAA	TAL NSH

Client Sample ID: GP-27 (2-4)

Date Collected: 05/03/17 08:40

Date Received: 05/04/17 10:20

Lab Sample ID: 500-127625-3

Matrix: Solid

Percent Solids: 76.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	WI GRO			428058	05/07/17 11:20	JLP	TAL NSH
Total/NA	Analysis	WDNR		1	429747	05/13/17 13:37	A1B	TAL NSH

TestAmerica Chicago

Lab Chronicle

Client: TRC Environmental Corporation.
Project/Site: STH 11 Kentucky to Kearney - 275788

TestAmerica Job ID: 500-127625-1

Client Sample ID: GP-27 (6-8)

Lab Sample ID: 500-127625-4

Date Collected: 05/03/17 08:45

Matrix: Solid

Date Received: 05/04/17 10:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	428284	05/08/17 13:36	BAA	TAL NSH

Client Sample ID: GP-27 (6-8)

Lab Sample ID: 500-127625-4

Date Collected: 05/03/17 08:45

Matrix: Solid

Date Received: 05/04/17 10:20

Percent Solids: 86.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	WI GRO			428058	05/07/17 11:20	JLP	TAL NSH
Total/NA	Analysis	WDNR		1	429747	05/13/17 14:04	A1B	TAL NSH

Client Sample ID: GP-28 (2-4)

Lab Sample ID: 500-127625-5

Date Collected: 05/03/17 09:05

Matrix: Solid

Date Received: 05/04/17 10:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	428284	05/08/17 13:36	BAA	TAL NSH

Client Sample ID: GP-28 (2-4)

Lab Sample ID: 500-127625-5

Date Collected: 05/03/17 09:05

Matrix: Solid

Date Received: 05/04/17 10:20

Percent Solids: 85.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	WI GRO			428058	05/07/17 11:20	JLP	TAL NSH
Total/NA	Analysis	WDNR		1	429747	05/13/17 14:31	A1B	TAL NSH

Client Sample ID: GP-28 (6-8)

Lab Sample ID: 500-127625-6

Date Collected: 05/03/17 09:10

Matrix: Solid

Date Received: 05/04/17 10:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			384086	05/06/17 13:35	RMP	TAL CHI
TCLP	Analysis	8260B		20	384262	05/09/17 03:19	JMP	TAL CHI
TCLP	Leach	1311			383992	05/05/17 15:05	RMP	TAL CHI
TCLP	Prep	3510C			384171	05/08/17 07:42	JJH	TAL CHI
TCLP	Analysis	8270D		1	384241	05/08/17 20:04	GES	TAL CHI
TCLP	Leach	1311			383992	05/05/17 15:05	RMP	TAL CHI
TCLP	Prep	3010A			384187	05/08/17 08:10	JEF	TAL CHI
TCLP	Analysis	6010B		1	384328	05/08/17 22:34	PJ1	TAL CHI
TCLP	Leach	1311			383992	05/05/17 15:05	RMP	TAL CHI
TCLP	Prep	7470A			384260	05/08/17 13:40	MJD	TAL CHI
TCLP	Analysis	7470A		1	384394	05/09/17 10:27	MJD	TAL CHI

TestAmerica Chicago

Lab Chronicle

Client: TRC Environmental Corporation.
Project/Site: STH 11 Kentucky to Kearney - 275788

TestAmerica Job ID: 500-127625-1

Client Sample ID: GP-28 (6-8)

Lab Sample ID: 500-127625-6

Date Collected: 05/03/17 09:10

Matrix: Solid

Date Received: 05/04/17 10:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	1010		1	385288	05/15/17 18:15 (Start) 05/15/17 20:07 (End)	ADK	TAL CHI
Total/NA	Prep	9010B			385217	05/15/17 17:10	MAN	TAL CHI
Total/NA	Analysis	9014		1	385342	05/15/17 20:21 (Start) 05/15/17 20:21 (End)	MAN	TAL CHI
Total/NA	Prep	9030B			385245	05/15/17 17:36	JBK	TAL CHI
Total/NA	Analysis	9034		1	385402	05/15/17 21:55	JBK	TAL CHI
Total/NA	Analysis	9045C		1	384553	05/09/17 17:01 (Start) 05/09/17 17:03 (End)	SMO	TAL CHI
Total/NA	Analysis	9095A		1	385286	05/15/17 21:41 (Start) 05/15/17 21:43 (End)	ADK	TAL CHI
Total/NA	Analysis	Moisture		1	428284	05/08/17 13:36	BAA	TAL NSH
Total/NA	Analysis	Moisture		1	383924	05/05/17 11:19	LWN	TAL CHI
Total/NA	Analysis	SM 2710F		1	385047	05/12/17 22:24 (Start) 05/12/17 22:28 (End)	ADK	TAL CHI

Client Sample ID: GP-28 (6-8)

Lab Sample ID: 500-127625-6

Date Collected: 05/03/17 09:10

Matrix: Solid

Date Received: 05/04/17 10:20

Percent Solids: 86.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			384839	05/11/17 18:50	LLH	TAL CHI
Total/NA	Analysis	8082A		1	384912	05/12/17 13:06	BJH	TAL CHI

Client Sample ID: GP-28 (6-8)

Lab Sample ID: 500-127625-6

Date Collected: 05/03/17 09:10

Matrix: Solid

Date Received: 05/04/17 10:20

Percent Solids: 87.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	WI GRO			428058	05/07/17 11:20	JLP	TAL NSH
Total/NA	Analysis	WDNR		1	429747	05/13/17 14:58	A1B	TAL NSH
Total/NA	Prep	WI DRO PREP			384574	05/10/17 10:11	LMC	TAL CHI
Total/NA	Analysis	WI-DRO		1	384623	05/10/17 16:46	SAW	TAL CHI

TestAmerica Chicago

Lab Chronicle

Client: TRC Environmental Corporation.
 Project/Site: STH 11 Kentucky to Kearney - 275788

TestAmerica Job ID: 500-127625-1

Client Sample ID: GP-28 (14-16)

Date Collected: 05/03/17 09:20

Date Received: 05/04/17 10:20

Lab Sample ID: 500-127625-7

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	428284	05/08/17 13:36	BAA	TAL NSH

Client Sample ID: GP-28 (14-16)

Date Collected: 05/03/17 09:20

Date Received: 05/04/17 10:20

Lab Sample ID: 500-127625-7

Matrix: Solid

Percent Solids: 88.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	WI GRO			428058	05/07/17 11:20	JLP	TAL NSH
Total/NA	Analysis	WDNR		1	429747	05/13/17 15:24	A1B	TAL NSH

Client Sample ID: GP-29 (2-4)

Date Collected: 05/03/17 09:45

Date Received: 05/04/17 10:20

Lab Sample ID: 500-127625-8

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	428284	05/08/17 13:36	BAA	TAL NSH

Client Sample ID: GP-29 (2-4)

Date Collected: 05/03/17 09:45

Date Received: 05/04/17 10:20

Lab Sample ID: 500-127625-8

Matrix: Solid

Percent Solids: 87.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	WI GRO			428058	05/07/17 11:20	JLP	TAL NSH
Total/NA	Analysis	WDNR		1	429747	05/13/17 15:51	A1B	TAL NSH

Client Sample ID: GP-29 (6-8)

Date Collected: 05/03/17 09:50

Date Received: 05/04/17 10:20

Lab Sample ID: 500-127625-9

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	428284	05/08/17 13:36	BAA	TAL NSH

Client Sample ID: GP-29 (6-8)

Date Collected: 05/03/17 09:50

Date Received: 05/04/17 10:20

Lab Sample ID: 500-127625-9

Matrix: Solid

Percent Solids: 85.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	WI GRO			428058	05/07/17 11:20	JLP	TAL NSH
Total/NA	Analysis	WDNR		1	429747	05/13/17 16:18	A1B	TAL NSH

TestAmerica Chicago

Lab Chronicle

Client: TRC Environmental Corporation.
Project/Site: STH 11 Kentucky to Kearney - 275788

TestAmerica Job ID: 500-127625-1

Client Sample ID: GP-29 (14-16)

Lab Sample ID: 500-127625-10

Date Collected: 05/03/17 10:00

Matrix: Solid

Date Received: 05/04/17 10:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	428284	05/08/17 13:36	BAA	TAL NSH

Client Sample ID: GP-29 (14-16)

Lab Sample ID: 500-127625-10

Date Collected: 05/03/17 10:00

Matrix: Solid

Date Received: 05/04/17 10:20

Percent Solids: 87.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	WI GRO			428058	05/07/17 11:20	JLP	TAL NSH
Total/NA	Analysis	WDNR		1	429747	05/13/17 16:45	A1B	TAL NSH

Client Sample ID: GP-30 (2-4)

Lab Sample ID: 500-127625-11

Date Collected: 05/03/17 10:25

Matrix: Solid

Date Received: 05/04/17 10:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	383924	05/05/17 11:19	LWN	TAL CHI

Client Sample ID: GP-30 (2-4)

Lab Sample ID: 500-127625-11

Date Collected: 05/03/17 10:25

Matrix: Solid

Date Received: 05/04/17 10:20

Percent Solids: 83.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			384048	05/03/17 10:25	WRE	TAL CHI
Total/NA	Analysis	8260B		50	385468	05/17/17 11:21	PJH	TAL CHI

Client Sample ID: GP-30 (6-8)

Lab Sample ID: 500-127625-12

Date Collected: 05/03/17 10:30

Matrix: Solid

Date Received: 05/04/17 10:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	383924	05/05/17 11:19	LWN	TAL CHI

Client Sample ID: GP-30 (6-8)

Lab Sample ID: 500-127625-12

Date Collected: 05/03/17 10:30

Matrix: Solid

Date Received: 05/04/17 10:20

Percent Solids: 81.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			384048	05/03/17 10:30	WRE	TAL CHI
Total/NA	Analysis	8260B		50	385468	05/17/17 11:48	PJH	TAL CHI

TestAmerica Chicago

Lab Chronicle

Client: TRC Environmental Corporation.
Project/Site: STH 11 Kentucky to Kearney - 275788

TestAmerica Job ID: 500-127625-1

Client Sample ID: GP-30 (14-16)

Lab Sample ID: 500-127625-13

Date Collected: 05/03/17 10:40

Matrix: Solid

Date Received: 05/04/17 10:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	383924	05/05/17 11:19	LWN	TAL CHI

Client Sample ID: GP-30 (14-16)

Lab Sample ID: 500-127625-13

Date Collected: 05/03/17 10:40

Matrix: Solid

Date Received: 05/04/17 10:20

Percent Solids: 88.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			384048	05/03/17 10:40	WRE	TAL CHI
Total/NA	Analysis	8260B		50	385468	05/17/17 12:42	PJH	TAL CHI

Client Sample ID: GP-31 (2-4)

Lab Sample ID: 500-127625-14

Date Collected: 05/03/17 11:00

Matrix: Solid

Date Received: 05/04/17 10:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	383924	05/05/17 11:19	LWN	TAL CHI

Client Sample ID: GP-31 (2-4)

Lab Sample ID: 500-127625-14

Date Collected: 05/03/17 11:00

Matrix: Solid

Date Received: 05/04/17 10:20

Percent Solids: 83.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			384048	05/03/17 11:00	WRE	TAL CHI
Total/NA	Analysis	8260B		50	385468	05/17/17 13:09	PJH	TAL CHI

Client Sample ID: GP-31 (6-8)

Lab Sample ID: 500-127625-15

Date Collected: 05/03/17 11:05

Matrix: Solid

Date Received: 05/04/17 10:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	383924	05/05/17 11:19	LWN	TAL CHI

Client Sample ID: GP-31 (6-8)

Lab Sample ID: 500-127625-15

Date Collected: 05/03/17 11:05

Matrix: Solid

Date Received: 05/04/17 10:20

Percent Solids: 82.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			384048	05/03/17 11:05	WRE	TAL CHI
Total/NA	Analysis	8260B		50	385468	05/17/17 13:35	PJH	TAL CHI

TestAmerica Chicago

Lab Chronicle

Client: TRC Environmental Corporation.
Project/Site: STH 11 Kentucky to Kearney - 275788

TestAmerica Job ID: 500-127625-1

Client Sample ID: GP-32 (2-4)

Lab Sample ID: 500-127625-16

Date Collected: 05/03/17 11:25

Matrix: Solid

Date Received: 05/04/17 10:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	383924	05/05/17 11:19	LWN	TAL CHI

Client Sample ID: GP-32 (2-4)

Lab Sample ID: 500-127625-16

Date Collected: 05/03/17 11:25

Matrix: Solid

Date Received: 05/04/17 10:20

Percent Solids: 86.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			384048	05/03/17 11:25	WRE	TAL CHI
Total/NA	Analysis	8260B		50	385468	05/17/17 14:02	PJH	TAL CHI

Client Sample ID: GP-32 (6-8)

Lab Sample ID: 500-127625-17

Date Collected: 05/03/17 11:30

Matrix: Solid

Date Received: 05/04/17 10:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	383924	05/05/17 11:19	LWN	TAL CHI

Client Sample ID: GP-32 (6-8)

Lab Sample ID: 500-127625-17

Date Collected: 05/03/17 11:30

Matrix: Solid

Date Received: 05/04/17 10:20

Percent Solids: 82.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			384048	05/03/17 11:30	WRE	TAL CHI
Total/NA	Analysis	8260B		50	385468	05/17/17 14:29	PJH	TAL CHI

Client Sample ID: GP-32 (14-16)

Lab Sample ID: 500-127625-18

Date Collected: 05/03/17 11:35

Matrix: Solid

Date Received: 05/04/17 10:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	383924	05/05/17 11:19	LWN	TAL CHI

Client Sample ID: GP-32 (14-16)

Lab Sample ID: 500-127625-18

Date Collected: 05/03/17 11:35

Matrix: Solid

Date Received: 05/04/17 10:20

Percent Solids: 87.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			384048	05/03/17 11:35	WRE	TAL CHI
Total/NA	Analysis	8260B		50	385468	05/17/17 14:56	PJH	TAL CHI

TestAmerica Chicago

Lab Chronicle

Client: TRC Environmental Corporation.
 Project/Site: STH 11 Kentucky to Kearney - 275788

TestAmerica Job ID: 500-127625-1

Client Sample ID: GP-33 (2-4)

Lab Sample ID: 500-127625-19

Date Collected: 05/03/17 11:50

Matrix: Solid

Date Received: 05/04/17 10:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	383924	05/05/17 11:19	LWN	TAL CHI

Client Sample ID: GP-33 (2-4)

Lab Sample ID: 500-127625-19

Date Collected: 05/03/17 11:50

Matrix: Solid

Date Received: 05/04/17 10:20

Percent Solids: 81.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			384048	05/03/17 11:50	WRE	TAL CHI
Total/NA	Analysis	8260B		50	385468	05/17/17 15:23	PJH	TAL CHI

Client Sample ID: GP-33 (6-8)

Lab Sample ID: 500-127625-20

Date Collected: 05/03/17 11:55

Matrix: Solid

Date Received: 05/04/17 10:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	383924	05/05/17 11:19	LWN	TAL CHI

Client Sample ID: GP-33 (6-8)

Lab Sample ID: 500-127625-20

Date Collected: 05/03/17 11:55

Matrix: Solid

Date Received: 05/04/17 10:20

Percent Solids: 84.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			384048	05/03/17 11:55	WRE	TAL CHI
Total/NA	Analysis	8260B		50	385468	05/17/17 15:50	PJH	TAL CHI

Client Sample ID: Trip Blank

Lab Sample ID: 500-127625-21

Date Collected: 05/03/17 00:00

Matrix: Solid

Date Received: 05/04/17 10:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	383924	05/05/17 11:19	LWN	TAL CHI

Client Sample ID: Trip Blank

Lab Sample ID: 500-127625-21

Date Collected: 05/03/17 00:00

Matrix: Solid

Date Received: 05/04/17 10:20

Percent Solids: 100.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			384048	05/03/17 00:00	WRE	TAL CHI
Total/NA	Analysis	8260B		50	385468	05/17/17 16:17	PJH	TAL CHI

TestAmerica Chicago

Lab Chronicle

Client: TRC Environmental Corporation.
Project/Site: STH 11 Kentucky to Kearney - 275788

TestAmerica Job ID: 500-127625-1

Laboratory References:

SFAL = SF Analytical Laboratories, 2345 South 170th Street, New Berlin, WI 53151

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

TAL NSH = TestAmerica Nashville, 2960 Foster Creighton Drive, Nashville, TN 37204, TEL (615)726-0177

1

2

3

4

5

6

7

8

9

10

11

12

13

14

15

16

Accreditation/Certification Summary

Client: TRC Environmental Corporation.
Project/Site: STH 11 Kentucky to Kearney - 275788

TestAmerica Job ID: 500-127625-1

Laboratory: TestAmerica Chicago

The accreditations/certifications listed below are applicable to this report.

Authority	Program	EPA Region	Identification Number	Expiration Date
Wisconsin	State Program	5	999580010	08-31-17

Laboratory: TestAmerica Nashville

The accreditations/certifications listed below are applicable to this report.

Authority	Program	EPA Region	Identification Number	Expiration Date
Wisconsin	State Program	5	998020430	08-31-17

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15
- 16

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: _____
 Address: _____
 Phone: _____
 Fax: _____
 E-Mail: _____

Bill To _____ (optional)
 Contact: _____
 Company: _____
 Address: _____
 Address: _____
 Phone: _____
 Fax: _____
 PO#/Reference# _____

Chain of Custody Record

Lab Job #: 500-127625
 Chain of Custody Number: _____
 Page 1 of 2
 Temperature °C of Cooler: 4.9

Client		Client Project #		Preservative		Parameter		Comments		
TRC		275788						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		Project Location/State		Lab Project #		Lab PM				
STA 11 - Kentucky to Kearney		Racine, WI								
Lab ID	MS/MSD	Sample ID	Date	Time	# of Containers	Matrix	Pres & Nap	GPD	DRD	Protocol B
1		GP-26 (2-4)	5/03	825	2	S	X			
2		GP-26 (6-8)		830			X			
3		GP-27 (2-4)		840			X			
4		GP-27 (6-8)		845			X			
5		GP-28 (2-4)		905			X			
6		GP-28 (6-8)		910	4		X	X	X	
7		GP-28 (14-16)		920	2		X			
8		GP-29 (2-4)		945			X			
9		GP-29 (6-8)		950			X			
10		GP-29 (14-16)		1000			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)

Requested Due Date _____

Relinquished By <i>[Signature]</i>	Company TRC	Date 5/03/17	Time 11:00	Received By <i>[Signature]</i>	Company TA	Date 05/04/17	Time 10:20
Relinquished By	Company	Date	Time	Received By	Company	Date	Time
Relinquished By	Company	Date	Time	Received By	Company	Date	Time

Lab Courier: _____
 Shipped:
 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:



500-127625 COC

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: _____
 Address: _____
 Phone: _____
 Fax: _____
 E-Mail: _____

Bill To _____ (optional)
 Contact: _____
 Company: _____
 Address: _____
 Address: _____
 Phone: _____
 Fax: _____
 PO#/Reference# _____

Chain of Custody Record

Lab Job #: 500-127625
 Chain of Custody Number: _____
 Page 2 of 2
 Temperature °C of Cooler: _____

Client		Client Project #		Preservative		Parameter		Comments	
TRC		275788		1				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		Lab Project #		# of Containers		Matrix		Comments	
STH 11 - Kentucky to Kearney									
Project Location/State		Lab Project #		Date		Time		Comments	
Ravine, WI									
Sampler		Lab PM		Date		Time		Comments	
M. Kavrilas									
Lab ID	MS/MSD	Sample ID	Date	Time	# of Containers	Matrix	Comments		
11		GP-30 (2-4)	5/03	1025	2	S	XXXXX VOCs		
12		GP-30 (6-8)		1030			XXXXX		
13		GP-30 (14-16)		1040			XXXXX		
14		GP-31 (2-4)		1100			XXXXX		
15		GP-31 (6-8)		1105			XXXXX		
16		GP-32 (2-4)		1125			XXXXX		
17		GP-32 (6-8)		1130			XXXXX		
18		GP-32 (14-16)		1135			XXXXX		
19		GP-33 (2-4)		1150			XXXXX		
20		GP-33 (6-8)		1155			XXXXX		
21		TRIP BLANK					XXXXX		

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: TRC Date: 5/03/17 Time: 1400	Received By: <u>[Signature]</u> Company: TA Date: 05/04/17 Time: 1020	Lab Courier: _____
Relinquished By: _____ Company: _____ Date: _____ Time: _____	Received By: _____ Company: _____ Date: _____ Time: _____	Shipped: <input checked="" type="checkbox"/>
Relinquished By: _____ Company: _____ Date: _____ Time: _____	Received By: _____ Company: _____ Date: _____ Time: _____	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: _____

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15
- 16

ORIGIN ID: RRLA (262)901-2153
 MIRANDA KAPRIL AS
 TRC ENVIRONMENTAL
 150 N PATRICK BLVD, SUITE 180
 BROOKFIELD, WI 53045
 UNITED STATES US

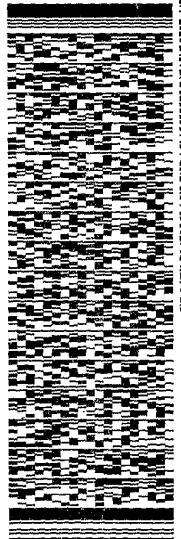
SHIP DATE: 03MAY17
 ACTWGT: 20.00 LB
 CAD: 110325482INLET3950
 BILL RECIPIENT

TO ATTN: SAMPLE RECEIVING
 TEST AMERICA - CHICAGO
 2417 BOND ST



UNIVERSITY PARK IL 60484
 (708) 534-8200 REF: 500-127625 Waybill
 INV. DEPT: PO:

546.116734.63C1



J17117021401ue

TRK# 7790 5594 3934
 0201
 THU - 04 MAY 10:30A
 PRIORITY OVERNIGHT

79 JOTA
 IL-US 60484
 ORD



05.04
 3934
 A
 10:30
 5
 519
 RTT
 19
 ST

809

COOLER RECEIPT FORM



500-127625 Chain of Custody

Cooler Received/Opened On 05-05-2017 @ 10:05

Time Samples Removed From Cooler _____ Time Samples Placed In Storage _____ (2 Hour Window)

1. Tracking # 4774 (last 4 digits, FedEx) Courier: FedEx
IR Gun ID 31470366 pH Strip Lot _____ Chlorine Strip Lot _____

2. Temperature of rep. sample or temp blank when opened: 2.6 Degrees Celsius

3. If Item #2 temperature is 0°C or less, was the representative sample or temp blank frozen? YES NO (NA)

4. Were custody seals on outside of cooler? (YES)..NO...NA

If yes, how many and where: 1 (Front)

5. Were the seals intact, signed, and dated correctly? (YES)..NO...NA

6. Were custody papers inside cooler? (YES)..NO...NA

I certify that I opened the cooler and answered questions 1-6 (initial) KD

7. Were custody seals on containers: YES (NO) and Intact YES...NO...(NA)

Were these signed and dated correctly? YES...NO...(NA)

8. Packing mat'l used? Bubblewrap (X) Plastic bag (X) Peanuts Vermiculite Foam Insert Paper Other None

9. Cooling process: (Ice) Ice-pack Ice (direct contact) Dry ice Other None

10. Did all containers arrive in good condition (unbroken)? (YES)..NO...NA

11. Were all container labels complete (#, date, signed, pres., etc)? (YES)..NO...NA

12. Did all container labels and tags agree with custody papers? (YES)..NO...NA

13a. Were VOA vials received? (YES)..NO...NA

b. Was there any observable headspace present in any VOA vial? YES...NO...(NA)

14. Was there a Trip Blank in this cooler? YES...(NO)..NA If multiple coolers, sequence # _____

I certify that I unloaded the cooler and answered questions 7-14 (initial) B

15a. On pres'd bottles, did pH test strips suggest preservation reached the correct pH level? YES...NO...(NA)

b. Did the bottle labels indicate that the correct preservatives were used (YES)..NO...NA

16. Was residual chlorine present? YES...NO...(NA)

I certify that I checked for chlorine and pH as per SOP and answered questions 15-16 (initial) B

17. Were custody papers properly filled out (ink, signed, etc)? (YES)..NO...NA

18. Did you sign the custody papers in the appropriate place? (YES)..NO...NA

19. Were correct containers used for the analysis requested? (YES)..NO...NA

20. Was sufficient amount of sample sent in each container? (YES)..NO...NA

I certify that I entered this project into LIMS and answered questions 17-20 (initial) B

I certify that I attached a label with the unique LIMS number to each container (initial) B

21. Were there Non-Conformance issues at login? YES...NO Was a NCM generated? YES...(NO)..# _____

2417 Bond Street
University Park, IL 60484
Phone (708) 534-5200 Fax (708) 534-5211

Chain of Custody Record

Loc: 500
127625



THE LEADER IN ENVIRONMENTAL TESTING

Client Information (Sub Contract Lab)

Client Contact:
Shipping/Receiving

Company:
TestAmerica Laboratories, Inc

Address:
2960 Foster Creighton Drive,
Nashville
TN, 37204

Phone:
615-726-0177(Tel) 615-726-3404(Fax)

Project Name:
WISDOT

Site:
SSOW#:

Due Date Requested:
5/5/2017

Lab P/N:
Fredrick, Sandie J

Phone:
E-Mail:
Sandie.fredrick@lestamericainc.com

Accreditations Required (See note):
State in origin:
Wisconsin
State Program - Wisconsin

COCC No:
500-86745-1

Page:
Page 1 of 2

Job #:
500-127625-1

Preservation Codes:
A - HCL
B - NaOH
C - Zn Acetate
D - Nitric Acid
E - NaHSO4
F - MeOH
G - Anionizer
H - Ascorbic Acid
I - Ice
J - DI Water
K - EDTA
L - FDA
M - Hexane
N - None
O - As2O2
P - Na2OAS
Q - Na2SO3
R - Na2S2O3
S - H2SO4
T - TSP Dodecahydrate
U - Acetone
V - MCAA
W - pH 4.5
Z - other (specify)

Analysis Requested

Sample ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix (W=Water, S=Soil, O=Other)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	Moisture/ Percent Moisture/Solids	WI_GRO/WIGRO_P_FM PVOC+NAP	WI_GRO/WIGRO_P_FM (MOD) PVOC+NAP+GRO	Total Number of containers	Special Instructions/Note:
GP-26 (2-4) (500-127625-1)	5/3/17	08:25	Central	Solid	X	X	X			2	
GP-26 (6-8) (500-127625-2)	5/3/17	08:30	Central	Solid	X	X	X			2	
GP-27 (2-4) (500-127625-3)	5/3/17	08:40	Central	Solid	X	X	X			2	
GP-27 (6-8) (500-127625-4)	5/3/17	08:45	Central	Solid	X	X	X			2	
GP-28 (2-4) (500-127625-5)	5/3/17	09:05	Central	Solid	X	X	X			2	
GP-28 (6-8) (500-127625-6)	5/3/17	09:10	Central	Solid	X	X	X	X		2	Plus GRO
GP-28 (1-4-6) (500-127625-7)	5/3/17	09:20	Central	Solid	X	X	X			2	
GP-29 (2-4) (500-127625-8)	5/3/17	09:45	Central	Solid	X	X	X			2	
GP-29 (6-8) (500-127625-9)	5/3/17	09:50	Central	Solid	X	X	X			2	

Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/estimates/being analyzed, the samples must be shipped back to the TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to TestAmerica Laboratories, Inc. attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to TestAmerica Laboratories, Inc.

Possible Hazard Identification

Unconfirmed

Deliverable Requested: I, II, III, IV, Other (specify)

Primary Deliverable Rank: 2

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

Return To Client

Disposal By Lab

Archive For Months

Empty Kit Relinquished by:

Date:

Time:

Method of Shipment:

Received by:

Date/Time:

Company:

Received by:

Date/Time:

Company:

Relinquished by:

Date/Time:

Company:

Received by:

Date/Time:

Company:

Received by:

Date/Time:

Company:

Relinquished by:

Date/Time:

Company:

Received by:

Date/Time:

Company:

Received by:

Date/Time:

Company:

Custody Seals Intact:

Custody Seal No.:

Δ Yes Δ No

Received by:

Date/Time:

Company:

Received by:

Date/Time:

Company:

Cooler Temperature(s) °C and other Remarks:

7 C

TAH

7 C

TAH

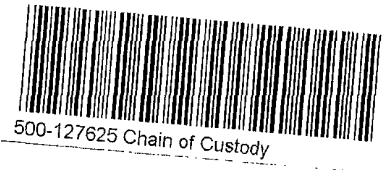
TAH

TAH

TAH

TAH

COOLER RECEIPT FORM



Cooler Received/Opened On 05-05-2017 @ 10:05

Time Samples Removed From Cooler _____ Time Samples Placed In Storage _____ (2 Hour Window)

1. Tracking # 4774 (last 4 digits, FedEx) Courier: FedEx
 IR Gun ID 31470366 pH Strip Lot _____ Chlorine Strip Lot _____
2. Temperature of rep. sample or temp blank when opened: 2.6 Degrees Celsius
3. If Item #2 temperature is 0°C or less, was the representative sample or temp blank frozen? YES NO NA
4. Were custody seals on outside of cooler? YES..NO...NA
 If yes, how many and where: 1 (front)
5. Were the seals intact, signed, and dated correctly? YES..NO...NA
6. Were custody papers inside cooler? YES..NO...NA
KD
- I certify that I opened the cooler and answered questions 1-6 (initial) _____
7. Were custody seals on containers: YES NO and Intact YES...NO...NA
 Were these signed and dated correctly? YES...NO...NA
8. Packing mat'l used? Bubblewrap Plastic bag Peanuts Vermiculite Foam Insert Paper Other None
9. Cooling process: Ice Ice-pack Ice (direct contact) Dry ice Other None
10. Did all containers arrive in good condition (unbroken)? YES...NO...NA
11. Were all container labels complete (#, date, signed, pres., etc)? YES...NO...NA
12. Did all container labels and tags agree with custody papers? YES...NO...NA
- 13a. Were VOA vials received? YES...NO...NA
- b. Was there any observable headspace present in any VOA vial? YES...NO...NA
14. Was there a Trip Blank in this cooler? YES...NO...NA If multiple coolers, sequence # _____
- I certify that I unloaded the cooler and answered questions 7-14 (initial) B
- 15a. On pres'd bottles, did pH test strips suggest preservation reached the correct pH level? YES..NO..NA
- b. Did the bottle labels indicate that the correct preservatives were used YES..NO...NA
16. Was residual chlorine present? YES...NO...NA
AS
- I certify that I checked for chlorine and pH as per SOP and answered questions 15-16 (initial) _____
17. Were custody papers properly filled out (ink, signed, etc)? YES...NO...NA
18. Did you sign the custody papers in the appropriate place? YES...NO...NA
19. Were correct containers used for the analysis requested? YES...NO...NA
20. Was sufficient amount of sample sent in each container? YES...NO...NA
AS
- I certify that I entered this project into LIMS and answered questions 17-20 (initial) _____
- I certify that I attached a label with the unique LIMS number to each container (initial) _____
21. Were there Non-Conformance issues at login? YES...NO Was a NCM generated? YES...NO...# _____

Login Sample Receipt Checklist

Client: TRC Environmental Corporation.

Job Number: 500-127625-1

Login Number: 127625

List Source: TestAmerica Chicago

List Number: 1

Creator: Kelsey, Shawn M

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	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	4.9c
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 (excluding tests with immediate HTs)	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 <math><6\text{mm}</math> (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: TRC Environmental Corporation.

Job Number: 500-127625-1

Login Number: 127625

List Number: 2

Creator: Shaw, Rashard M

List Source: TestAmerica Nashville

List Creation: 05/05/17 04:25 PM

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	N/A	
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	
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 (excluding tests with immediate HTs)	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.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



Detail Contract Activity Report

January 01, 2020 to December 14, 2020

Specific Contract(s) : '3063202272'

All Ticket Types
History and Waiting

All Facilities

* - Confirmed Qty Applied to Billing

3063202272

Ticket Date	Facility & Ticket Number	Customer	Truck	Material	Billing Quantity
03/20/2020	I 01 1082543	333441 - ZIGNEGO COMPANY, INC.	JMT5	SW-CONT SOIL	18.72 TN
03/20/2020	I 01 1082549	333441 - ZIGNEGO COMPANY, INC.	AAS98	SW-CONT SOIL	21.72 TN
03/20/2020	I 01 1082572	333441 - ZIGNEGO COMPANY, INC.	AAS98	SW-CONT SOIL	15.47 TN
04/06/2020	I 01 1083592	333441 - ZIGNEGO COMPANY, INC.	ZIGT72	SW-CONT SOIL	20.06 TN
04/06/2020	I 01 1083593	333441 - ZIGNEGO COMPANY, INC.	ZIGT79	SW-CONT SOIL	16.71 TN
04/06/2020	I 01 1083594	333441 - ZIGNEGO COMPANY, INC.	ZIG90	SW-CONT SOIL	15.22 TN
04/06/2020	I 01 1083595	333441 - ZIGNEGO COMPANY, INC.	ZIGT73	SW-CONT SOIL	18.11 TN
04/06/2020	I 01 1083600	333441 - ZIGNEGO COMPANY, INC.	SZA66	SW-CONT SOIL	19.28 TN
04/06/2020	I 01 1083602	333441 - ZIGNEGO COMPANY, INC.	ZIGT76	SW-CONT SOIL	16.71 TN
04/06/2020	I 01 1083604	333441 - ZIGNEGO COMPANY, INC.	SZA82	SW-CONT SOIL	18.72 TN
04/06/2020	I 01 1083605	333441 - ZIGNEGO COMPANY, INC.	ZIGT80	SW-CONT SOIL	17.50 TN
04/06/2020	I 01 1083607	333441 - ZIGNEGO COMPANY, INC.	ZIGT77	SW-CONT SOIL	15.12 TN
04/06/2020	I 01 1083613	333441 - ZIGNEGO COMPANY, INC.	ZIGT72	SW-CONT SOIL	20.33 TN
04/06/2020	I 01 1083614	333441 - ZIGNEGO COMPANY, INC.	ZIGT79	SW-CONT SOIL	19.69 TN
04/06/2020	I 01 1083617	333441 - ZIGNEGO COMPANY, INC.	ZIG90	SW-CONT SOIL	20.08 TN
04/06/2020	I 01 1083618	333441 - ZIGNEGO COMPANY, INC.	ZIGT73	SW-CONT SOIL	19.23 TN
04/06/2020	I 01 1083622	333441 - ZIGNEGO COMPANY, INC.	SZA66	SW-CONT SOIL	20.04 TN
04/06/2020	I 01 1083623	333441 - ZIGNEGO COMPANY, INC.	ZIGT73	SW-CONT SOIL	13.83 TN
04/06/2020	I 01 1083624	333441 - ZIGNEGO COMPANY, INC.	SZA82	SW-CONT SOIL	20.38 TN
04/06/2020	I 01 1083625	333441 - ZIGNEGO COMPANY, INC.	ZIGT80	SW-CONT SOIL	19.95 TN
04/06/2020	I 01 1083626	333441 - ZIGNEGO COMPANY, INC.	ZIGT77	SW-CONT SOIL	19.64 TN
04/06/2020	I 01 1083627	333441 - ZIGNEGO COMPANY, INC.	ZIGT76	SW-CONT SOIL	21.63 TN
04/24/2020	I 01 1084891	333441 - ZIGNEGO COMPANY, INC.	ZAV65	SW-CONT SOIL	18.53 TN
04/24/2020	I 01 1084892	333441 - ZIGNEGO COMPANY, INC.	ZIGT91	SW-CONT SOIL	17.32 TN
04/24/2020	I 01 1084893	333441 - ZIGNEGO COMPANY, INC.	ZIGT74	SW-CONT SOIL	18.66 TN
04/24/2020	I 01 1084898	333441 - ZIGNEGO COMPANY, INC.	ZIGT79	SW-CONT SOIL	20.23 TN
04/24/2020	I 01 1084900	333441 - ZIGNEGO COMPANY, INC.	POLT6	SW-CONT SOIL	20.26 TN
06/01/2020	I 01 1087738	333441 - ZIGNEGO COMPANY, INC.	ZIGT76	SW-CONT SOIL	19.90 TN
06/01/2020	I 01 1087746	333441 - ZIGNEGO COMPANY, INC.	ZIGT79	SW-CONT SOIL	19.32 TN
06/01/2020	I 01 1087753	333441 - ZIGNEGO COMPANY, INC.	ZIGT88	SW-CONT SOIL	20.29 TN
06/01/2020	I 01 1087761	333441 - ZIGNEGO COMPANY, INC.	ZIGT76	SW-CONT SOIL	11.65 TN
06/10/2020	I 01 1088562	333441 - ZIGNEGO COMPANY, INC.	ZIGT92	SW-CONT SOIL	20.83 TN
06/10/2020	I 01 1088592	333441 - ZIGNEGO COMPANY, INC.	ZIGT92	SW-CONT SOIL	13.52 TN
08/04/2020	I 01 1092790	333441 - ZIGNEGO COMPANY, INC.	ZIGT80	SW-CONT SOIL	22.84 TN
08/04/2020	I 01 1092793	333441 - ZIGNEGO COMPANY, INC.	ZIGT78	SW-CONT SOIL	21.45 TN
08/04/2020	I 01 1092795	333441 - ZIGNEGO COMPANY, INC.	ZIGT77	SW-CONT SOIL	20.47 TN
08/04/2020	I 01 1092799	333441 - ZIGNEGO COMPANY, INC.	ROQ09	SW-CONT SOIL	20.68 TN
08/04/2020	I 01 1092803	333441 - ZIGNEGO COMPANY, INC.	AAS98	SW-CONT SOIL	20.94 TN

Detail Contract Activity Report

January 01, 2020 to December 14, 2020

Specific Contract(s) : '3063202272'

All Facilities

All Ticket Types
History and Waiting

* - Confirmed Qty Applied to Billing

08/04/2020 I 01	1092805	333441 - ZIGNEGO COMPANY, INC.	MAL48	SW-CONT SOIL	19.27	TN
08/04/2020 I 01	1092806	333441 - ZIGNEGO COMPANY, INC.	Szada23	SW-CONT SOIL	22.03	TN
08/04/2020 I 01	1092808	333441 - ZIGNEGO COMPANY, INC.	ZIGT78	SW-CONT SOIL	22.45	TN
08/04/2020 I 01	1092809	333441 - ZIGNEGO COMPANY, INC.	LIB77	SW-CONT SOIL	23.11	TN
08/04/2020 I 01	1092810	333441 - ZIGNEGO COMPANY, INC.	ZIGT80	SW-CONT SOIL	20.41	TN
08/04/2020 I 01	1092811	333441 - ZIGNEGO COMPANY, INC.	P86	SW-CONT SOIL	24.03	TN
08/04/2020 I 01	1092812	333441 - ZIGNEGO COMPANY, INC.	ZIGT77	SW-CONT SOIL	21.80	TN
08/04/2020 I 01	1092815	333441 - ZIGNEGO COMPANY, INC.	ROQ09	SW-CONT SOIL	22.70	TN
08/04/2020 I 01	1092817	333441 - ZIGNEGO COMPANY, INC.	MAL48	SW-CONT SOIL	22.64	TN
08/04/2020 I 01	1092819	333441 - ZIGNEGO COMPANY, INC.	Szada23	SW-CONT SOIL	22.10	TN
08/04/2020 I 01	1092824	333441 - ZIGNEGO COMPANY, INC.	LIB77	SW-CONT SOIL	17.59	TN
08/04/2020 I 01	1092825	333441 - ZIGNEGO COMPANY, INC.	P86	SW-CONT SOIL	20.05	TN
08/04/2020 I 01	1092827	333441 - ZIGNEGO COMPANY, INC.	AAS98	SW-CONT SOIL	20.58	TN
08/04/2020 I 01	1092828	333441 - ZIGNEGO COMPANY, INC.	ZIGT78	SW-CONT SOIL	22.03	TN
08/04/2020 I 01	1092831	333441 - ZIGNEGO COMPANY, INC.	SZA33	SW-CONT SOIL	24.01	TN
08/18/2020 I 01	1093916	333441 - ZIGNEGO COMPANY, INC.	J90	SW-CONT SOIL	11.92	TN
08/18/2020 I 01	1093919	333441 - ZIGNEGO COMPANY, INC.	BJ31	SW-CONT SOIL	11.44	TN
09/24/2020 I 01	1096673	333441 - ZIGNEGO COMPANY, INC.	ZIGT70-04	SW-CONT SOIL	21.56	TN
09/24/2020 I 01	1096674	333441 - ZIGNEGO COMPANY, INC.	ZIGT82	SW-CONT SOIL	20.97	TN
09/24/2020 I 01	1096677	333441 - ZIGNEGO COMPANY, INC.	ZIGT70-02	SW-CONT SOIL	23.99	TN
09/24/2020 I 01	1096682	333441 - ZIGNEGO COMPANY, INC.	ZIGT91	SW-CONT SOIL	21.92	TN
09/24/2020 I 01	1096683	333441 - ZIGNEGO COMPANY, INC.	ZIGT83	SW-CONT SOIL	21.73	TN
09/24/2020 I 01	1096686	333441 - ZIGNEGO COMPANY, INC.	ZIGT74	SW-CONT SOIL	21.25	TN
09/24/2020 I 01	1096687	333441 - ZIGNEGO COMPANY, INC.	ZIGT82	SW-CONT SOIL	20.97	TN
09/24/2020 I 01	1096690	333441 - ZIGNEGO COMPANY, INC.	ZIGT70-04	SW-CONT SOIL	18.53	TN
09/24/2020 I 01	1096691	333441 - ZIGNEGO COMPANY, INC.	ZIGT70-02	SW-CONT SOIL	20.53	TN
09/24/2020 I 01	1096696	333441 - ZIGNEGO COMPANY, INC.	ZIGT83	SW-CONT SOIL	16.86	TN
09/24/2020 I 01	1096699	333441 - ZIGNEGO COMPANY, INC.	ZIGT74	SW-CONT SOIL	17.55	TN
09/24/2020 I 01	1096702	333441 - ZIGNEGO COMPANY, INC.	ZIGT91	SW-CONT SOIL	19.45	TN
09/24/2020 I 01	1096708	333441 - ZIGNEGO COMPANY, INC.	ZIGT82	SW-CONT SOIL	17.84	TN
09/24/2020 I 01	1096718	333441 - ZIGNEGO COMPANY, INC.	ZIGT70-02	SW-CONT SOIL	16.72	TN
09/24/2020 I 01	1096721	333441 - ZIGNEGO COMPANY, INC.	ZIGT83	SW-CONT SOIL	9.19	TN
09/29/2020 I 01	1097046	333441 - ZIGNEGO COMPANY, INC.	ZIGT70-03	SW-CONT SOIL	13.78	TN

Tickets Reported: 71 Items Reported: 71

All Ticket Types
History and Waiting
* - Confirmed Qty Applied to Billing

Detail Contract Activity Report

January 01, 2020 to December 14, 2020

Specific Contract(s) : '3063202272'

All Facilities

Material Summary	Weight		Volume		Count		Billing Quantity
	Inbound	Outbound	Inbound	Outbound	Inbound	Outbound	
VG - SW-CONT SOIL	1,366.03	0.00 TN	410.00	0.00 YD	0.00	0.00	1,366.03 TN

Tickets Reported: 71 Items Reported: 71

Appendix C: Photographic Log

Photographic Log






Client Name:		Site Location:	Project No.:
Wisconsin Department of Transportation		Durand Ave. (STH 11) Racine, Wisconsin	WisDOT ID #2260-07-70 TRC #358418
Photo No.	Date		
1	3/23/2020		
Description Installation of storm sewer at Station 114+00. Contaminated soil generated at this location was landfilled under the daily cover profile. Photo facing southeast.			

Photo No.	Date		
2	3/25/2020		
Description Excavating and removing contaminated soil for storm sewer installation near Station 113+50. The contaminated soil was landfilled under the daily cover profile Photo facing west.			



Photographic Log

Client Name:		Site Location:	Project No.:
Wisconsin Department of Transportation		Durand Ave. (STH 11) Racine, Wisconsin	WisDOT ID #2260-07-70 TRC #358418
Photo No.	Date		
3	4/6/2020		
Description Grading and excavating CVOC-contaminated soil from Station 122+00 to 123+00. The contaminated soil was landfilled under the solid waste profile. Photo facing west.			
Photo No.	Date		
4	4/24/2020		
Description Excavation and grading near Station 113+50. Contaminated soil generated at this location was landfilled under the daily cover profile. Photo facing southwest.			

Photographic Log

Client Name:		Site Location:	Project No.:
Wisconsin Department of Transportation		Durand Ave. (STH 11) Racine, Wisconsin	WisDOT ID #2260-07-70 TRC #358418
Photo No.	Date		
5	4/27/2020		
Description Excavating and grading of contaminated soil near Station 85+40. The contaminated soil was landfilled under the bioremediation profile. Photo facing southwest.			
Photo No.	Date		
6	5/29/2020		
Description Abandonment of air sparging well AS-1 with bentonite chips during Phase 4 activities. The air sparging well was located at 3818 Durand Ave. (WDNR BRRTS No. 03-52-000202).			

Photographic Log

Client Name:		Site Location:	Project No.:
Wisconsin Department of Transportation		Durand Ave. (STH 11) Racine, Wisconsin	WisDOT ID #2260-07-70 TRC #358418
Photo No.	Date		
7	5/29/2020		
Description Inside of MW-1 well cover at 3818 Durand Ave. (WDNR BRRTS No. 03-52-000202). The PVC well casing appeared to have been cut and previously filled with bentonite.			
Photo No.	Date		
8	5/29/2020		
Description Inside of MW-7 well cover at 3818 Durand Ave. (WDNR BRRTS No. 03-52-000202). The well appeared to have been previously abandoned.			

Photographic Log



Client Name:		Site Location:	Project No.:
Wisconsin Department of Transportation		Durand Ave. (STH 11) Racine, Wisconsin	WisDOT ID #2260-07-70 TRC #358418
Photo No.	Date		
9	6/8/2020		
Description Monotube installation on the NW corner of STH 11 and Lathrop Avenue (~Station 87+00). Contaminated soil from this location was landfilled under the bioremediation profile. Photo facing south.			

Photo No.	Date		
10	6/10/2020		
Description Monotube installation on the NW corner of Drexel Ave. and STH 11 near Station 122+60. CVOC - contaminated soil generated at this location was landfilled under the solid waste profile. Photo facing west.			

Photographic Log


Client Name:		Site Location:	Project No.:
Wisconsin Department of Transportation		Durand Ave. (STH 11) Racine, Wisconsin	WisDOT ID #2260-07-70 TRC #358418
Photo No.	Date		
11	7/30/2020		
Description Excavating and grading between Station 105+00 and 105+80. Contaminated soil generated at this location was landfilled under the daily cover profile. Photo facing west.			

Photo No.	Date		
12	8/4/2020		
Description Excavation of CVOC-contaminated soil near Station 121+50. Contaminated soil generated at this location was landfilled under the solid waste profile. Photo facing northeast.			

Photographic Log

Client Name:	Site Location:	Project No.:
Wisconsin Department of Transportation	Durand Ave. (STH 11) Racine, Wisconsin	WisDOT ID #2260-07-70 TRC #358418

Photo No.	Date
13	8/18/2020

Description
 Storm sewer inlet on the SW corner of Drexel Ave. and STH 11 near Station 122+50. CVOC-contaminated soil excavated from this location was landfilled under the solid waste profile.

Photo facing southwest.



Photo No.	Date
14	9/24/2020

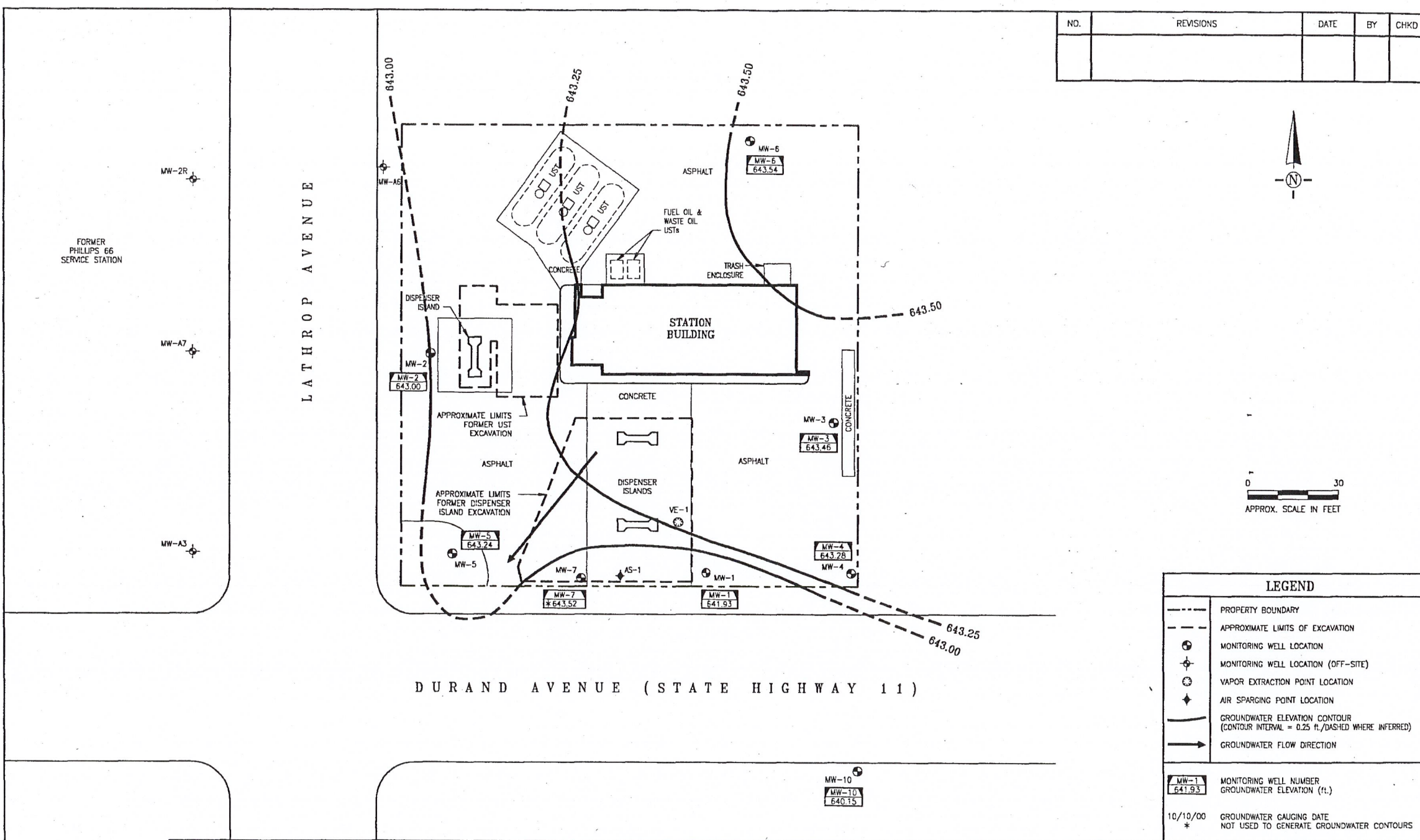
Description
 GRADALL filling dump truck with CVOC-contaminated soil at intersection of Drexel Ave. and STH 11. Contaminated soil generated at this location was landfilled under the solid waste profile.

Photo facing south.



Appendix D: AS-1 Abandonment Information

NO.	REVISIONS	DATE	BY	CHKD



LEGEND	
	PROPERTY BOUNDARY
	APPROXIMATE LIMITS OF EXCAVATION
	MONITORING WELL LOCATION
	MONITORING WELL LOCATION (OFF-SITE)
	VAPOR EXTRACTION POINT LOCATION
	AIR SPARGING POINT LOCATION
	GROUNDWATER ELEVATION CONTOUR (CONTOUR INTERVAL = 0.25 FT./DASHED WHERE INFERRED)
	GROUNDWATER FLOW DIRECTION

	MONITORING WELL NUMBER GROUNDWATER ELEVATION (ft.)
10/10/00	GROUNDWATER GAUGING DATE * NOT USED TO GENERATE GROUNDWATER CONTOURS

Handlex
OF WISCONSIN
16940 VICTOR ROAD
NEW BERLIN, WI 53151
(262) 641-9011

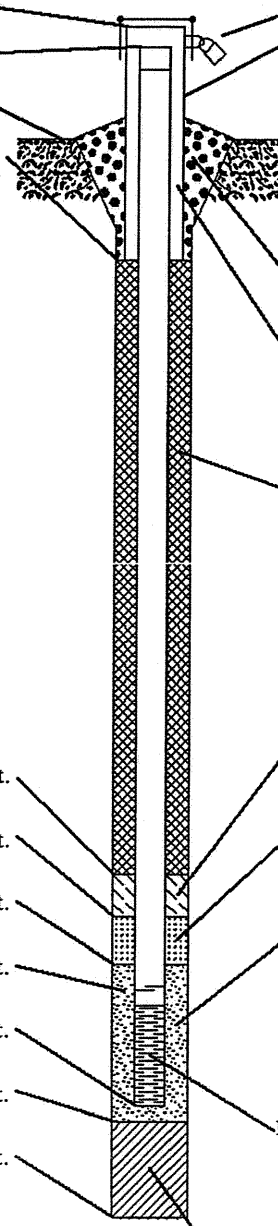
MOBIL OIL CORPORATION
Marketing & Refining Division - U.S.
Marketing Operations Department
Environmental Engineering Group
Fairfax, Virginia 22037

GROUNDWATER CONTOUR MAP
(10/10/00)
MOBIL SERVICE STATION # 05-KT5
3818 DURAND AVENUE
RACINE, RACINE COUNTY, WISCONSIN


DRAWN BY: M. SMITH	FIGURE 4
CHECKED BY: -	
SCALE: 1" = 30'	
DATE: 1/17/01	
DRAWING FILE: 116885	

8850E4

Facility/Project Name Mobil Station #05-KT5	Local Grid Location of Well _____ ft. <input type="checkbox"/> N. _____ ft. <input type="checkbox"/> E. _____ ft. <input type="checkbox"/> S. _____ ft. <input type="checkbox"/> W.	Well Name AS-1
Facility License, Permit or Monitoring Number	Grid Origin Location Lat. _____ " Long. _____ " or St. Plane _____ ft. N, _____ ft. E.	Unique Well Number: DNR Well Number
Type of Well Water Table Observation Well <input type="checkbox"/> 11 Piezometer <input type="checkbox"/> 12	Section Location of Waste/Source _____ 1/4 of _____ 1/4 of Sec. _____ T. _____ N, R. _____ E. _____ W.	Date Well Installed 11/02/95
Distance Well Is From Waste/Source Boundary _____ ft.	Location of Well Relative to Waste/Source u <input type="checkbox"/> Upgradient s <input type="checkbox"/> Sidegradient d <input type="checkbox"/> Downgradient n <input type="checkbox"/> Not Known	Well Installed By: (Person's Name and Firm) Mike Nelson Boart Longyear
Is Well A Point of Enforcement Std. Application? <input type="checkbox"/> Yes <input type="checkbox"/> No		

<p>A. Protective pipe, top elevation _____ ft. MSL</p> <p>B. Well casing, top elevation <u>-0.50</u> ft. MSL</p> <p>C. Land surface elevation _____ ft. MSL</p> <p>D. Surface seal, bottom _____ ft. MSL or <u>4.0</u> ft.</p> <div style="border: 1px solid black; padding: 5px; margin: 5px 0;"> <p>12. USC classification of soil near screen: GP <input type="checkbox"/> GM <input type="checkbox"/> GC <input type="checkbox"/> GW <input type="checkbox"/> SW <input type="checkbox"/> SP <input type="checkbox"/> SM <input type="checkbox"/> SC <input type="checkbox"/> ML <input type="checkbox"/> MH <input type="checkbox"/> CL <input type="checkbox"/> CH <input type="checkbox"/> Bedrock <input type="checkbox"/></p> <p>13. Sieve analysis attached? <input type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>14. Drilling method used: Rotary <input type="checkbox"/> 5 0 Hollow Stem Auger <input checked="" type="checkbox"/> 4 1 _____ Other <input type="checkbox"/></p> <p>15. Drilling fluid used: Water <input type="checkbox"/> 0 2 Air <input type="checkbox"/> 0 1 Drilling Mud <input type="checkbox"/> 0 3 None <input checked="" type="checkbox"/> 9 9</p> <p>16. Drilling additives used? <input type="checkbox"/> Yes <input type="checkbox"/> No Describe _____</p> <p>17. Source of water (attach analysis): _____</p> </div> <p>E. Bentonite seal, top _____ ft. MSL or <u>4.0</u> ft.</p> <p>F. Fine sand, top _____ ft. MSL or _____ ft.</p> <p>G. Filter pack, top _____ ft. MSL or <u>7.0</u> ft.</p> <p>H. Screen joint, top _____ ft. MSL or <u>13.0</u> ft.</p> <p>I. Well bottom _____ ft. MSL or <u>16.0</u> ft.</p> <p>J. Filter pack, bottom _____ ft. MSL or <u>16.5</u> ft.</p> <p>K. Borehole, bottom _____ ft. MSL or <u>16.5</u> ft.</p> <p>L. Borehole, diameter <u>8.0</u> in.</p> <p>M. O.D. well casing <u>2.37</u> in.</p> <p>N. I.D. well casing <u>2.06</u> in.</p>	 <p>1. Cap and lock? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>2. Protective cover pipe: a. Inside diameter: <u>8.0</u> in. b. Length: <u>1.0</u> ft. c. Material: Steel <input checked="" type="checkbox"/> 0 4 Other <input type="checkbox"/> d. Additional protection? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, describe: _____</p> <p>3. Surface seal: Bentonite <input type="checkbox"/> 3 0 Concrete <input type="checkbox"/> 0 1 <u>Native</u> Other <input checked="" type="checkbox"/></p> <p>4. Material between well casing and protective pipe: Bentonite <input type="checkbox"/> 3 0 Annular space seal <input type="checkbox"/> Other <input type="checkbox"/></p> <p>5. Annular space seal: a. Granular Bentonite <input checked="" type="checkbox"/> 3 3 b. _____ Lbs/gal mud weight . . . Bentonite-sand slurry <input type="checkbox"/> 3 5 c. _____ Lbs/gal mud weight . . . Bentonite slurry <input type="checkbox"/> 3 1 d. _____ % Bentonite . . . Bentonite-cement grout <input type="checkbox"/> 5 0 e. _____ Ft³ volume added for any of the above f. How installed: Tremie <input type="checkbox"/> 0 1 Tremie pumped <input type="checkbox"/> 0 2 Gravity <input checked="" type="checkbox"/> 0 8</p> <p>6. Bentonite seal: a. Bentonite granules <input type="checkbox"/> 3 3 b. <input type="checkbox"/> 1/4 in. <input type="checkbox"/> 3/8 in. <input type="checkbox"/> 1/2 in. Bentonite pellets <input type="checkbox"/> 3 2 c. _____ Other <input type="checkbox"/></p> <p>7. Fine sand material: Manufacturer, product name and mesh size a. _____ b. Volume added _____ ft³</p> <p>8. Filter pack material: Manufacturer, product name and mesh size a. <u>#30 American Material</u> b. Volume added _____ ft³</p> <p>9. Well casing: Flush threaded PVC schedule 40 <input checked="" type="checkbox"/> 2 3 Flush threaded PVC schedule 80 <input type="checkbox"/> 2 4 _____ Other <input type="checkbox"/></p> <p>10. Screen material: <u>Stainless Steel</u> a. Screen Type: Factory cut <input type="checkbox"/> 1 1 Continuous slot <input checked="" type="checkbox"/> 0 1 _____ Other <input type="checkbox"/> b. Manufacturer <u>Boart Longyear</u> c. Slot size: <u>0.010</u> in. d. Slotted length: <u>3.0</u> ft.</p> <p>11. Backfill material (below filter pack): None <input checked="" type="checkbox"/> 1 4 Other <input type="checkbox"/></p>
---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

I hereby certify that the information on this form is true and correct to the best of my knowledge.


Signature 	Firm Boart Longyear 101 Alderson Street	Tel: (715) 359-7090 Fax: (715) 355-5715
-----------------------------------------------------------------------------------------------	---------------------------------------------------	--------------------------------------------

Please complete both sides of this form and return to the appropriate DNR office listed at the top of this form as required by chs. 144, 147 and 160, Wis. Stats., and ch. NR 141, Wis. Ad. Code. In accordance with ch. 144, Wis. Stats., failure to file this form may result in a forfeiture of not less than \$10, nor more than \$5000 for each day of violation. In accordance with ch. 147, Wis. Stats., failure to file this form may result in a forfeiture of not more than \$10,000 for each day of violation. NOTE: Shaded areas are for DNR use only. See instructions for more information including where the completed form should be sent.

Facility/Project Name Mobil Station #05-KT5			License/Permit/Monitoring Number		Boring Number AS-1	
Boring Drilled By (Firm name and name of crew chief) Boart Longyear-Mike Nelson			Date Drilling Started 11/2/95		Date Drilling Completed 11/2/95	
DNR Facility Well No.			WI Unique Well No.		Common Well Name AS-1	
Final Static Water Level Feet MSL			Surface Elevation Feet MSL		Borehole Diameter 8.0 Inches	
Boring Location State Plane 1/4 of 1/4 of Section			N, E T N,R		Local Grid Location (If applicable) <input type="checkbox"/> N <input type="checkbox"/> E <input type="checkbox"/> S <input type="checkbox"/> W	
County Racine			DNR County Code 52		Civil Town/City/ or Village Racine	

Number	Sample Length (in) Recovered	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties					RQD/ Comments	
									Standard Penetration	Moisture Content	Liquid Limit	Plastic Limit	P 200		
			1	6" CONCRETE											
			2												
			3												
			4	F-M Brn SAND											
			5												
			6												
			7												
			8	Gry Silty CLAY											
			9												
			10												
			11												
			12												

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature 	Firm BOART LONGYEAR 101 Alderson Schofield, WI 54476-0109 Tel: (715) 359-7090 Fax: (715) 355-5715
--------------------------------------------------------------------------------------------------	-------------------------------------------------------------------------------------------------------------------

This form is authorized by Chapters 144, 147 and 162, Wis. Stats. Completion of this report is mandatory. Penalties: Forfeit not less than \$10 nor more than \$5,000 for each violation. Fined not less than \$10 or more than \$100 or imprisoned not less than 30 days, or both for each violation. Each day of continued violation is a separate offense, pursuant to ss 144.99 and 162.06, Wis. Stats.

The monitoring wells were sampled on November 2, 1995 in accordance with WDNR guidelines for sampling. Samples were packed on ice and shipped under chain-of-custody procedures to Mid-State Associates, Inc. in Baraboo, Wisconsin. A copy of the analytical laboratory report is presented in Attachment 1. Table 1 summarizes PVOC analytical results from this and previous sampling rounds performed by Montgomery Watson.

Results from this sampling round were similar to previous sampling rounds. No PVOCs were detected in wells MW3, MW4, MW5, and MW6, and only methyl tert butyl ether (MTBE) was detected in MW1 (810 µg/L). Low concentrations of PVOCs were again detected in well MW7; however, only MTBE (140 µg/L) exceeded the Chapter NR140, Wisconsin Administrative Code (NR 140), Enforcement Standard (ES) and only benzene (0.8 µg/L) exceeded the NR 140, Preventive Action Limit (PAL). PVOCs were again detected in well MW2, but only benzene (110 µg/L) and MTBE (1300 µg/L) exceeded the ES.

Remedial Alternatives Evaluation

On November 2, 1995, an air sparge well and a soil vapor monitoring well were installed at the site by Wisconsin Test Drilling. Well locations are shown on Figure 1 and soil boring logs and well construction details are presented in Attachment 2. An air sparge/soil vapor extraction test was performed on November 9, 1995 by Montgomery Watson. Preliminary results from this test indicate the site is not suitable for air sparging, soil vapor extraction, or groundwater extraction. At this time we are awaiting the results of air samples collected during the test. Results of the this test will be presented in the Remedial Action Plan.

The chosen remedial alternative for this site in June 1989 was to excavate contaminated soil to the extent practicable. Approximately 700 cubic yards of soil was removed during excavation activities. Residual soil contamination continues to effect groundwater quality at two locations and analytical results summarized in Table 1 indicate little change in contaminant concentrations during the last three years. The extent of contamination is very limited at this site and groundwater is not used for drinking water purposes in the site vicinity. Therefore, Montgomery Watson will contact the current site owner, Mr. Tom Bergemann, and the adjacent property owners, the City of Racine, and the Wisconsin Department of Transportation to get their opinions regarding further remediation of the remaining contamination and their willingness to accept an alternative form of site closure.

Notice: Completion of this report is required by chs. 160, 281, 283, 289, 291-293, 295, and 299, Wis. Stats., and chs. NR 141 and 812, 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.

Verification Only of Fill and Seal

Route to DNR Bureau:

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

1. Well Location Information				2. Facility / Owner Information			
County Racine		WI Unique Well # of Removed Well A5-1		Hicap #		Facility Name Mobil Station # 05-KT5	
Latitude / Longitude (see instructions) 42.6969 N -87.8255 W		Format Code <input checked="" type="checkbox"/> DD <input type="checkbox"/> DDM		Method Code <input checked="" type="checkbox"/> GPS008 <input type="checkbox"/> SCR002 <input type="checkbox"/> OTH001		Facility ID (FID or PWS) 252125830	
¼ / ¼ SW ¼ SE		Section 19		Township 3 N		Range <input checked="" type="checkbox"/> E <input type="checkbox"/> W	
Well Street Address 3818 Durand Ave, Racine		Well ZIP Code 53405		Original Well Owner ExxonMobil		Present Well Owner ExxonMobil	
Well City, Village or Town Racine		Well ZIP Code 53405		Mailing Address of Present Owner PO Box 874, Joliet Refinery		City of Present Owner Joliet	
Subdivision Name		Lot #		State IL		ZIP Code 60434	
3. Filled & Sealed Well / Drillhole / Borehole Information				4. Pump, Liner, Screen, Casing & Sealing Material			
<input checked="" type="checkbox"/> Monitoring Well		Original Construction Date (mm/dd/yyyy) 11-02-1995		Pump and piping removed?		<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	
<input type="checkbox"/> Water Well		If a Well Construction Report is available, please attach.		Liner(s) removed?		<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	
<input type="checkbox"/> Borehole / Drillhole				Liner(s) perforated?		<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	
Construction Type:				Screen removed?		<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	
<input checked="" type="checkbox"/> Drilled <input type="checkbox"/> Driven (Sandpoint) <input type="checkbox"/> Dug				Casing left in place?		<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
<input type="checkbox"/> Other (specify): _____				Was casing cut off below surface?		<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Formation Type:				Did sealing material rise to surface?		<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	
<input checked="" type="checkbox"/> Unconsolidated Formation <input type="checkbox"/> Bedrock				Did material settle after 24 hours?		<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	
Total Well Depth From Ground Surface (ft.) 16.5		Casing Diameter (in.) 2		If yes, was hole retopped?		<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Lower Drillhole Diameter (in.) 8		Casing Depth (ft.) 16		If bentonite chips were used, were they hydrated with water from a known safe source?		<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Was well annular space grouted? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Unknown				Required Method of Placing Sealing Material		<input type="checkbox"/> Conductor Pipe-Gravity <input type="checkbox"/> Conductor Pipe-Pumped	
If yes, to what depth (feet)?		Depth to Water (feet) 3.59		<input checked="" type="checkbox"/> Screened & Poured (Bentonite Chips) <input type="checkbox"/> Other (Explain): _____			
5. Material Used to Fill Well / Drillhole				6. Comments			
3/8" Bentonite Chips							
7. Supervision of Work				DNR Use Only			
Name of Person or Firm Doing Filling & Sealing TRC Environmental Corp.		License #		Date of Filling & Sealing or Verification (mm/dd/yyyy) 05/29/2020		Date Received	
Street or Route 150 N. Patrick Blvd, Suite 180		Telephone Number (262) 901-2162		Comments		Noted By	
City Brookfield		State WI		Signature of Person Doing Work <i>[Signature]</i>		Date Signed 7-16-2020	