

# Phase II Environmental Site Investigation Report

*600 River Road  
North Tonawanda, New York*

May 2012

0247-012-100

Prepared For:

Rock One Development



Prepared By:



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**PHASE II ENVIRONMENTAL SITE  
INVESTIGATION REPORT**

**600 RIVER ROAD SITE**

**NORTH TONAWANDA, NEW YORK**

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**600 River Road Site  
North Tonawanda, New York**

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**PHASE II ENVIRONMENTAL SITE INVESTIGATION REPORT**

**600 River Road Site  
North Tonawanda, New York**

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## 1.0 INTRODUCTION

### 1.1 Background and Site Description

TurnKey Environmental Restoration, LLC (TurnKey) performed a Phase II Environmental Site Investigation for subject property, located at 600 River Road, North Tonawanda, New York (Site) (see Figures 1 and 2). This investigation was performed based on the findings of the “Phase I Environmental Site Assessment Report” (March 2012) prepared by TurnKey.

The Site is an approximate 6-acre parcel located along River Road in North Tonawanda, Niagara County, New York, and is also identified by Niagara County (Tax ID No. 181.16-1-21.13). The Site is currently improved with one building and is partially fenced. The surrounding properties are predominately commercial/retail and recreational use, with the Niagara River located immediately adjacent to the west of the Site.

This investigation included the completion of subsurface soil borings and collection of near-surface and subsurface soil samples to further assess potential environmental impacts to the Site related to the historic Site use as part of the former Niagara/Tonawanda Iron Works, and more recently as marine construction operation.

### 1.2 Previous Investigations

A summary of the investigation that have occurred at the Site are presented below.

#### ***1.2.1 March 2001 – Phase II Environmental Investigation Report***

In March 2001, Nature’s Way Environmental Consultants & Contractors, Inc. (Nature’s Way) conducted a Phase II Environmental Investigation. The investigation included the advancement of soil borings and temporary monitoring wells. The investigation identified the presence of heavy metals at levels in exceeding regulatory guidelines (NYSDEC TAGM 4046) across the Site. The Phase II noted a previous Phase I Environmental Site Assessment (ESA) was completed; however, the previous Phase I ESA was not made available for Turnkey’s review.

### ***1.2.2 March 2012 – Phase I Environmental Site Assessment Report***

In March 2012, TurnKey conducted a Phase I Environmental Site Assessment (ESA) on the subject Site. TurnKey noted several Recognized Environmental Conditions (RECs) including:

- A previous investigation conducted on the subject property found evidence of impacts, including elevated VOCs and metals;
- Historically, the Site was a portion of a greater parcel utilized by Niagara Iron Works/Tonawanda Iron Works from at least 1886 through at least 1972. The historic Site usage included several railroad tracks throughout the property and a pig-iron casting operation;
- On-Site operations have reportedly included an equipment repair operation. The operation was listed as a registered RCRA (lead waste) facility;
- Multiple drums/containers, former automobile/marine parts, and debris piles were noted across the Site;
- Historic adjacent operations included industrial operations (American Radiator Company and Tonawanda Iron Corporation);
- The Site is identified in the spills and LUST databases; two releases are classified as “closed” for the Site; and,
- An adjacent/nearby site is listed on the NYSDEC State Superfund List. The Durez Div. – Occidental Chemical Corp. – Inlet Cove Superfund Site was remediated in 2010, and is currently in active Site Management, including groundwater monitoring, product (NAPL) removal, and chemical oxidation (ChemOx) injection.

## 2.0 METHOD OF INVESTIGATION

The soil investigation included the advancement of soil borings to characterize the soil and facilitate the collection of near-surface and subsurface soil samples for analysis.

On April 11<sup>th</sup> and 13<sup>th</sup>, 2012, ten (10) soil borings, identified as EP-19 through EP-28, were advanced across the Site (see Figure 3). The placement of the soil borings were selected to supplement previously identified contamination and to more fully characterize the Site. A photolog of the field activities is included in Appendix A.

### 2.1 Soil Borings and Sampling

The soil investigation included the advancement of ten (10) soil borings, identified as EP-19 through EP-28 across the Site (see Figure 3). Soil samples were generally collected within each borehole continuously from the ground surface until approximately 12-16 feet below ground surface (fbgs) (i.e., the target depth), or until equipment refusal. Any down-hole equipment was decontaminated between boreholes.

The physical characteristics of all boreholes were classified using the ASTM D2488 (Visual-Manual Method). TurnKey personnel field screened soils from each borehole using a photoionization detector (PID) equipped with a 10.6 eV lamp, and noted visual and/or olfactory field observations. Based on the historic use of the Site, soils were screened for radionuclides, utilizing a hand-held radiation detector (Radiation Alert - Inspector EXP) capable of detecting alpha, beta, gamma and x-ray radiation. All field observations, including lithology, depths, PID and radionuclide results for each borehole location are summarized in the Field Borehole Logs provided in Appendix B.

To assess potential impacts across the Site, soil samples were collected from eight (8) sample locations for analysis of Target Compound List (TCL) semi-volatile organic compounds (SVOCs), Resource Conservation and Recovery Act (RCRA) metals, and polychlorinated biphenyls (PCBs).

### **3.0 INVESTIGATION FINDINGS**

A total of 10 soil borings (EP-19 through EP-28) were advanced across the Site (see Figure 3). Eight (8) of the soil borings were sampled and collected for analysis. Analytical results are presented in Table 1, with comparison to soil cleanup objective (SCOs) as published in 6NYCRR Part 375 (December 2006). Analytical results for soil samples are discussed below.

#### **3.1 Site Conditions – Soil/Fill Debris Piles and Drums**

Multiple soil/fill piles were observed on-Site in the eastern section of the property. Multiple debris piles, including drums with unknown contents, wood, concrete, and marine parts (gas tanks) were located on the western portion of the Site. Multiple drums were observed on-Site within the fenced area. As stated within the Phase I ESA, minor surface staining was observed proximate to the on-Site building and multiple drums.

#### **3.2 Qualitative Soil Screening**

Soil samples were evaluated for presence of VOCs via headspace screening using a hand-held photoionization detector (PID). Field PID measurements ranged from background of 0.0 ppm to 2.3 ppm. Soil samples were scanned with a hand-held radiation detector. Radionuclide levels ranged from 0.007 milliroentgen per hour (mR/hr) to 0.018 mR/hr. This range represents a typical background level.

#### **3.3 Site Hydrogeology**

The geology at the Site is generally described as fill materials overlying sand and silty clay. The fill materials consist of brown to reddish brown poorly graded sand and gravel, including cinders, orange brick fragments, concrete, and coal, with noted iron staining, at depths ranging from surface to 12 fbg. White/grey fill material including slag and weathered gravel was noted to depths up to 12 fbg. Lean clay with sand was also noted, typically in borings devoid of slag fill, at depths from 10 to 16 fbg. Groundwater was typically encountered at approximately 7-9 fbg across the Site.



### 3.4 Soil Analytical Results

Soil samples from the near-surface interval (0-4 fbgs) and deeper subsurface intervals (4-12 fbgs) were collected for laboratory analysis. Analytical results indicate that multiple polycyclic aromatic hydrocarbons (PAHs), a subset of SVOCs, were detected above regulatory guidance, with several exceeding Restricted-Residential SCOs, and one contaminant, benzo(a)pyrene, exceeding Commercial SCOs. Elevated arsenic and barium were detected above Commercial SCOs. Lead was detected above Unrestricted SCOs in 5 of the 8 samples, and chromium was detected above Residential SCOs in EP-21.

Historic soil sample results from the 2001 investigation have been incorporated into Table 3 for comparison to current SCOs. As indicated on Table 1, historic results indicate site-wide elevated cadmium levels above Commercial SCOs, and elevated lead and manganese above Restricted-Residential SCOs. Laboratory analytical data package is included in Appendix C.

## 4.0 CONCLUSIONS AND RECOMMENDATIONS

Based on the results of this soil investigation and an historic investigation completed at the Site, TurnKey offers the following conclusions and recommendations:

- Based on the soil analytical results, on-Site near-surface and subsurface soils have been contaminated by metals and PAHS. Multiple metals were detected above SCOS, with cadmium, barium and arsenic being detected above Commercial SCOs. Elevated SVOCs, primarily PAHs were also detected on-Site, including benzo(a)pyrene exceeding Commercial SCOs.
- Multiple soil/fill/debris piles, including drums and marine parts (gas tanks) were observed on-Site. These materials would be considered solid waste and should be handled in accordance with all local, State and federal regulations.
- Based on the field and analytical results, the environmental impacts can reasonably be attributed to the historical use of the Site as a part of the larger Niagara Iron Works / Tonawanda Iron Works.
- TurnKey understands that the Rock One Development is considering purchasing and redeveloping the Site for restricted-residential purposes. Consideration should be given to applying for the New York Brownfield Cleanup Program (BCP) prior to Site redevelopment. The BCP offers remediation and redevelopment tax credits, as well as release of certain environmental liabilities from New York State, for entities that remediate and redevelop contaminated sites, such as the subject Site, into productive re-used properties.

## 5.0 LIMITATIONS

This report has been prepared for the exclusive use of the Rock One Development, LLC. The contents of this report are limited to information available at the time of the Site investigation activities and to data referenced herein, and assume all referenced historic information sources to be true and accurate. The findings herein may be relied upon only at the discretion of the Rock One Development, LLC. Use of or reliance upon this report or its findings by any other person or entity is prohibited without written permission of TurnKey Environmental Restoration, LLC.

# TABLES



TABLE 1  
SUMMARY OF SOIL ANALYTICAL RESULTS  
600 RIVER ROAD SITE  
NORTH TONAWANDA, NEW YORK

PARAMETER <sup>1</sup>	Unrestricted SCOs <sup>2</sup>	Residential SCOs <sup>2</sup>	Restricted - Residential SCOs <sup>2</sup>	Commercial SCOs <sup>2</sup>	Sample Location (depth)												
					Historical Investigation (2001)					Phase II Investigation (2012)							
					EP-2 (4-10)	EP-6 (2-8)	EP-9 (6-10)	EP-13 (2-8)	EP-15 (6-10)	EP-19 (0-4)	EP-21 (3-7)	EP-22 (0-4)	EP-24 (0-4)	EP-25 (8-12)	EP-26 (0-4)	EP-27 (0-4)	EP-28 (4-7)
<b>Semi-Volatile Organic Compounds (SVOCs) - mg/Kg<sup>3</sup></b>																	
Acenaphthene	20	100	100	500	ND	0.0072 J	ND	0.05 J	2	0.0089 J	0.18 J	0.014 J	ND	ND	ND	ND	ND
Acenaphthylene	100	100	100	500	ND	0.013 J	ND	ND	0.23 J	0.01 J	0.18 J	ND	ND	ND	ND	0.12 J	ND
Anthracene	100	100	100	500	ND	0.033 J	ND	0.11 J	5	0.031 J	0.37	0.039 J	0.017 J	ND	ND	0.066	ND
Benzo (a) anthracene	1	1	1	5.6	0.084 J	0.2	ND	0.45 J	11	0.11 J	1.2	0.18 J	0.083 J	ND	ND	0.76	ND
Benzo (b) fluoranthene	1	1	1	5.6	0.079 J	0.24	ND	0.47 J	10	0.17 J	2.2	0.24	0.14 J	ND	0.22	1.1	ND
Benzo (k) fluoranthene	0.8	1	3.9	56	0.063 J	0.11	ND	0.24 J	6	0.079 J	0.95	0.071 J	0.063 J	ND	0.1 J	0.12	ND
Benzo (a) pyrene	1	1	1	1	0.058 J	0.21	ND	0.41 J	9.2	0.11 J	1.2	0.13 J	0.092 J	ND	0.18 J	0.68	ND
Benzo (g,h,i) perylene	100	100	100	500	ND	0.16 J	ND	0.26 J	7.1	0.14 J	0.6	0.089 J	0.066 J	ND	0.081 J	0.34	ND
Biphenyl	--	--	--	--	ND	ND	ND	ND	ND	0.018 J	0.035 J	ND	ND	ND	ND	ND	ND
Caprolactam	--	--	--	--	ND	ND	ND	ND	ND	0.17 J	0.18 J	ND	ND	ND	ND	ND	ND
Carbazole	--	--	--	--	ND	ND	ND	ND	ND	0.016 J	0.18 J	0.024 J	ND	ND	0.019 J	ND	ND
Chrysene	1	1	3.9	56	0.083 J	0.19	ND	0.46 J	9.4	0.13 J	1.4	0.2	0.12 J	ND	0.18 J	0.75	ND
Dibenzo (a,h) anthracene	0.33	0.33	0.33	0.56	ND	0.047 J	ND	0.085 J	1.5	ND	0.12 J	0.02 J	ND	ND	ND	0.072 J	ND
Dibenzofuran	7	14	59	350	ND	ND	ND	ND	ND	0.043 J	0.14 J	0.012 J	ND	ND	ND	ND	ND
Fluoranthene	100	100	100	500	0.17 J	0.33	ND	0.77 J	23	0.17 J	1.7	0.3	0.11 J	ND	0.34	1.5	ND
Fluorene	30	100	100	500	ND	0.01 J	ND	0.034 J	2.4	0.012 J	0.13 J	ND	ND	ND	ND	ND	ND
Indeno (1,2,3 - cd) pyrene	0.5	0.5	0.5	5.6	ND	0.12 J	ND	0.21 J	5.7	0.038 J	0.64	0.088 J	0.063 J	ND	0.083 J	0.35	ND
2 - Methylnaphthalene	--	--	--	--	ND	ND	ND	ND	ND	0.13 J	0.28	0.023 J	0.015 J	ND	ND	0.074 J	ND
Naphthalene	12	100	100	500	ND	ND	ND	ND	2	0.077 J	0.27	ND	ND	ND	ND	0.061	ND
Phenanthrene	100	100	100	500	0.084 J	0.19	ND	0.53 J	19	0.19 J	1.1	0.19 J	0.052 J	ND	0.16 J	0.17	ND
Pyrene	100	100	100	500	0.13 J	0.3	ND	0.7 J	19	0.14 J	ND	0.3	0.12 J	ND	0.3	1.6	ND
<b>Metals - mg/Kg</b>																	
Aluminum	--	--	--	--	13700	10200	16600	22500	20700	--	--	--	--	--	--	--	--
Arsenic	13	16	16	16	6.8	13.5	3.89	5.59	8.65	12.7	16.1	16.2	7	5.2	7	10.2	3.9
Barium	350	350	400	400	90.6	82.8	85.1	128	103	417	73.1	148	82.8	117	243	171	222
Beryllium	7.2	14	72	590	1.19	1.71	2.04	3.22	2.86	--	--	--	--	--	--	--	--
Cadmium	2.5	2.5	4.3	9.3	10.5	33.5	11.2	11.6	19.7	0.43	0.63	1.5	0.7	ND	0.36	1.2	ND
Calcium	--	--	--	--	50300	40400	5860	60300	62900	--	--	--	--	--	--	--	--
Chromium	30	36	180	1500	13.6	21.8	8.34	12.7	23.2	12.2	61.2	17.5	22.7	6.6	18.8	19.4	3.6
Cobalt	--	--	--	--	4.98	8.24	3.27	3.72	6.74	--	--	--	--	--	--	--	--
Copper	50	270	270	270	46.3	46.1	14.3	13.9	29.4	--	--	--	--	--	--	--	--
Iron	--	--	--	--	48700	130000	47000	51600	87800	--	--	--	--	--	--	--	--
Lead	63	400	400	1000	32.7	427	3.94	12.8	17	249	135	167	79.7	9.7	55.6	163	2
Magnesium	--	--	--	--	9970	4890	11300	21800	14600	--	--	--	--	--	--	--	--
Manganese	1600	2000	2000	10000	1010	2210	1210	1970	1660	--	--	--	--	--	--	--	--
Mercury	0.18	0.81	0.81	2.8	0.324	0.144	0.09	0.096	0.098	0.047	0.091	0.1	0.096	ND	0.031	0.089	ND
Nickel	30	140	310	310	12.4	17.1	3.08	4.73	9.08	--	--	--	9.08	--	--	--	--
Potassium	--	--	--	--	1890	659	1380	1010	1120	--	--	--	1120	--	--	--	--
Selenium	3.9	36	180	1500	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5.8
Sodium	--	--	--	--	741	540	536	454	365	--	--	--	--	--	--	--	--
Thallium	--	--	--	--	34.9	89.7	37.1	38.4	66.3	--	--	--	--	--	--	--	--
Vanadium	--	--	--	--	19.2	35.2	16	17.39	29.3	--	--	--	--	--	--	--	--
Zinc	109	2200	10000	10000	126	2530	3.23	16.8	48.1	--	--	--	--	--	--	--	--

Notes:  
 1. Only those parameters detected at a minimum of one sample location are presented in this table; all other compounds were reported as non-detect.  
 2. Values per NYSDEC Part 375 Soil Cleanup Objectives (December 2006).  
 3. Laboratory analytical reported parameters in ug/kg. Values were converted to mg/kg for comparison to SCOs

Definitions:  
 -- = No SCO has been established for subject parameter; Sample was not analyzed for this parameter.  
 ND = Parameter not detected above laboratory detection limit.  
 J = Estimated value; result is less than the sample quantitation limit but greater than zero.

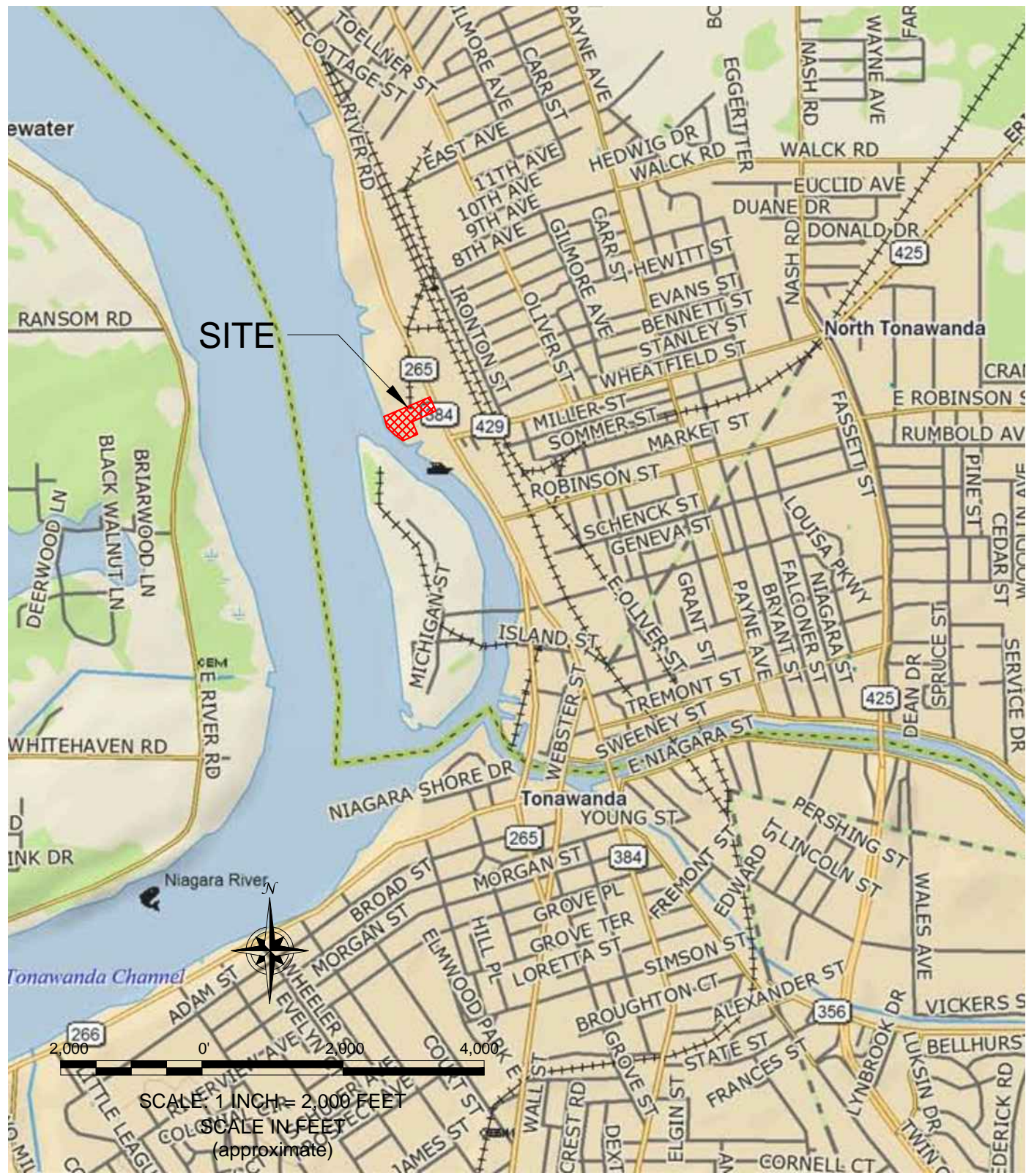
	Exceeds Part 375 Unrestricted SCOs.
	Exceeds Part 375 Residential SCOs.
	Exceeds Part 375 Restricted-Residential SCOs.
	Exceeds Part 375 Commercial SCOs.

# FIGURES



FIGURE 1

F:\CAD\TurnKey\Rock One Development, LLC\Phase II\Figure 1: Site Location and Vicinity Map.dwg



### SITE LOCATION AND VICINITY MAP

PHASE II ENVIRONMENTAL INVESTIGATION REPORT

600 RIVER ROAD SITE

NORTH TONAWANDA, NEW YORK

PREPARED FOR

ROCK ONE DEVELOPMENT, LLC



2558 HAMBURG TURNPIKE  
SUITE 300  
BUFFALO, NY 14218  
(716) 856-0635

PROJECT NO.: 0247-012-100

DATE: MAY 2012

DRAFTED BY: JGT





2558 HAMBURG TURNPIKE  
 SUITE 300  
 BUFFALO, NY 14218  
 (716) 856-0635

PROJECT NO.: 0247-012-100

DATE: MAY 2012

DRAFTED BY: JGT

## SITE PLAN (AERIAL)

PHASE II ENVIRONMENTAL SITE INVESTIGATION REPORT

600 RIVER ROAD SITE

NORTH TONAWANDA, NEW YORK








PREPARED FOR

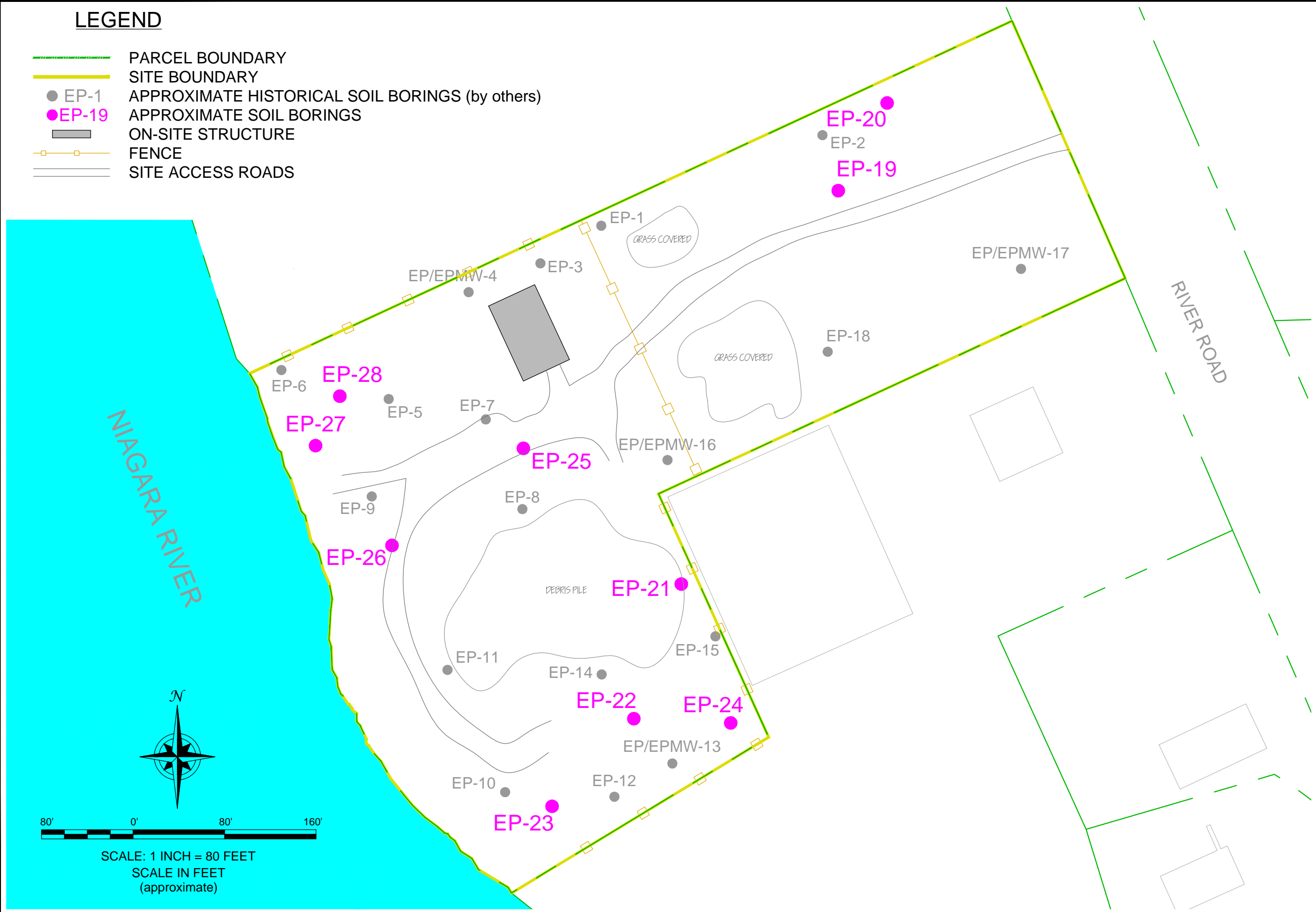
ROCK ONE DEVELOPMENT, LLC

**FIGURE 2**



### LEGEND

-  PARCEL BOUNDARY
-  SITE BOUNDARY
-  EP-1 APPROXIMATE HISTORICAL SOIL BORINGS (by others)
-  EP-19 APPROXIMATE SOIL BORINGS
-  ON-SITE STRUCTURE
-  FENCE
-  SITE ACCESS ROADS



2556 HAMBURG TURNPIKE  
SUITE 300  
BUFFALO, NY 14218  
(716) 856-0635



JOB NO.: 0247-012-100

### INVESTIGATION SAMPLE LOCATIONS

PHASE II ENVIRONMENTAL SITE INVESTIGATION REPORT  
600 RIVER ROAD SITE  
NORTH TONAWANDA, NEW YORK  
PREPARED FOR  
ROCK ONE DEVELOPMENT, LLC

**FIGURE 3**

# APPENDIX A

## PHOTOLOG

## SITE PHOTOGRAPHS

Photo 1:



Photo 2:



Photo 3:



Photo 4:



Photo 1: Soil boring location in eastern section of Site (looking southwest)

Photo 2: Soil boring location in northeast section of Site (looking west)

Photo 3: Representative of split spoon sample, "Pancake" meter, and PID

Photo 4: Soil boring location in southeast section of Site (EP-21) (looking south)

**600 River Road Site**  
**North Tonawanda, New York**

Photo Date: April 11<sup>th</sup> and 13<sup>th</sup>, 2012



## SITE PHOTOGRAPHS

Photo 5:



Photo 6:



Photo 7:



Photo 8:



Photo 5: Soil boring location along southern property boundary (looking south)

Photo 6: Soil bring location adjacent to on-Site building (looking north)

Photo 7: Soil boring location western section of Site (looking northwest)

Photo 8: Soil boring location in western section of Site (looking northeast)

**600 River Road Site**  
**North Tonawanda, New York**

Photo Date: April 11<sup>th</sup> and 13<sup>th</sup>, 2012



# APPENDIX B

## FIELD BOREHOLE LOGS

Project No: 0247-012-100

Borehole Number: EP-19

Project: Phase II Investigation

A.K.A.:

Client: Rock One Development, Inc.

Logged By: TAB

Site Location: 600 River Rd. Tonawanda, NY

Checked By: BCH



TurnKey Environmental Restoration, LLC  
 2558 Hamburg Turnpike, Suite 300  
 Buffalo, NY 14218  
 (716) 856-0635

SUBSURFACE PROFILE			SAMPLE				PID VOCs ppm 0 12.5 25	Lab Sample	Well Completion Details or Remarks
Depth (fbgs)	Elev. /Depth	Description (ASTM D2488: Visual-Manual Procedure)	Sample No.	SPT N-Value	Recovery (ft)	Symbol			
0.0	0.0	Ground Surface							
	0.0	<b>Poorly Graded Sand w/ Silt Gravel and Fill</b> Dark brown/black, moist, mostly fine sand, few non-plastic fines, little fine gravel (slag), cinders, dense, loose when disturbed.	S-1	NA	1.6		0.0	0-4 fbgs 0.010 mr/hr	
							0.0		
5.0	-6.0	<b>Sandy Lean Clay with Gravel</b> Brown, moist, mostly low plasticity fines, some fine sand, little fine gravel (sub-rounded), iron staining, stiff, medium toughness.	S-2	NA	1.8		0.0	0.010 mr/hr	
	6.0						0.0		
							0.0		
10.0	-9.0	<b>Poorly Graded Sand w/ Gravel</b> Grey, wet (9.0 fbgs), mostly fine sand, little fine gravel (sub-rounded), trace non-plastic fines, dense, loose when disturbed, rapid dilatancy.	S-3	NA	3.0		0.0	0.018 mr/hr	
	9.0						0.0		
		<b>Lean Clay</b> Reddish brown, wet, mostly medium plastic fines, trace fine sand, stiff, varved with silt fines.					0.0		
	-12.0	<b>Poorly Graded Sand w/ Gravel</b> As (9.0 to 10.0 fbgs) above, trace coarse gravel (sub-rounded).	S-4	NA	3.0		0.0	0.010 mr/hr	
	12.0						0.0		
							0.0		
15.0	-15.0	<b>Lean Clay</b> As (10.0 to 12.0 fbgs) above.					0.0		
	15.0						0.0		
	-16.0						0.0		
	16.0	End of Borehole							
20.0									

First water, (9.0 fbgs)

Drilled By: Russo Development  
 Drill Rig Type: AMS Power Probe 9500-VTR  
 Drill Method: Directpush.  
 Comments: Background radiological concentration = 0.010 mr/hr  
 Drill Date(s): 4/11/12 & 4/13/12

Hole Size: 3-inch  
 Stick-up: NA  
 Datum: Mean sea level.

Sheet: 1 of 1



Project No: 0247-012-100

Borehole Number: EP-20

Project: Phase II Investigation

A.K.A.:

Client: Rock One Development, Inc.

Logged By: TAB

Site Location: 600 River Rd. Tonawanda, NY

Checked By: BCH



TurnKey Environmental Restoration, LLC  
 2558 Hamburg Turnpike, Suite 300  
 Buffalo, NY 14218  
 (716) 856-0635

SUBSURFACE PROFILE			SAMPLE				PID VOCs ppm 0 12.5 25	Lab Sample	Well Completion Details or Remarks
Depth (fbgs)	Elev. /Depth	Description (ASTM D2488: Visual-Manual Procedure)	Sample No.	SPT N-Value	Recovery (ft)	Symbol			
0.0	0.0	Ground Surface							
		<b>Poorly Graded Sand w/ Silt Gravel and Fill</b> Dark Brown/black, moist, mostly fine sand, few non-plastic fines, little fine gravel (slag), cinders, dense, loose when disturbed.	S-1	NA	2.5		0.0	0.012 mr/hr	
		<b>Sandy Lean Clay with Gravel</b> Brown, moist, mostly low plasticity fines, some fine sand, little fine gravel (sub-rounded), iron staining, stiff, medium toughness.	S-2	NA	2.6		0.0	0.012 mr/hr	
		<b>Poorly Graded Sand w/ Gravel</b> Grey, wet (9.0 fbgs), mostly fine sand, little fine gravel (sub-rounded), trace non-plastic fines, dense, loose when disturbed, rapid dilatancy.	S-3	NA	2.9		0.0	0.011 mr/hr	
		<b>Lean Clay</b> Reddish brown, wet, mostly medium plastic fines, trace fine sand, stiff, varved with silt.					0.0		
		<b>Poorly Graded Sand w/ Gravel</b> As (9.0 to 10.0 fbgs) above, trace coarse gravel (sub-rounded).	S-4	NA	2.8		0.0	0.013 mr/hr	
		<b>Lean Clay</b> As (10.0 to 12.0 fbgs) above.					0.0		
		End of Borehole							

First water, (9.0 fbgs)

Drilled By: Russo Development  
 Drill Rig Type: AMS Power Probe 9500-VTR  
 Drill Method: Directpush.  
 Comments: Background radiological concentration = 0.010 mr/hr  
 Drill Date(s): 4/11/12 & 4/13/12

Hole Size: 3-inch  
 Stick-up: NA  
 Datum: Mean sea level.

Sheet: 1 of 1

**Project No:** 0247-012-100

**Borehole Number:** EP-21

**Project:** Phase II Investigation

**A.K.A.:**

**Client:** Rock One Development, Inc.

**Logged By:** TAB

**Site Location:** 600 River Rd. Tonawanda, NY

**Checked By:** BCH



**TurnKey Environmental Restoration, LLC**  
 2558 Hamburg Turnpike, Suite 300  
 Buffalo, NY 14218  
 (716) 856-0635

SUBSURFACE PROFILE			SAMPLE				PID VOCs ppm 0 12.5 25	Lab Sample	Well Completion Details or Remarks
Depth (fbgs)	Elev. /Depth	Description (ASTM D2488: Visual-Manual Procedure)	Sample No.	SPT N-Value	Recovery (ft)	Symbol			
0.0	0.0 0.0	Ground Surface							
		<b>Lean Clay with Sand and Fill</b> Brown, moist, low plasticity fines, little fine sand, concrete, cinders, stiff.	C-1	NA	2.6		0.0	0.011 mr/hr	
	-3.0 3.0	<b>Poorly Graded Sand w/ Silt Gravel and Fill</b> Dark Brown/black, moist, mostly fine sand, few non-plastic fines, little fine gravel (slag), cinders, dense, loose when disturbed.					0.0		
5.0			C-2	NA	1.7		0.0	3-7 fbgs 0.011 mr/hr	
	-7.0 7.0	<b>Fill</b> Concrete pieces.					0.0		
	-8.0 8.0	<b>Slag/Fill</b> Grey/blue, wet (8.0 fbgs), mostly coarse gravel (slag).	C-3	NA	0.8		0.0	0.009 mr/hr	
10.0	-10.0 10.0	<b>Poorly Graded Sand with Silt</b> Grey, wet, mostly fine sand, few non-plastic fines, medium dense, loose when disturbed.	C-4	NA	1.0		0.0	0.011 mr/hr	
			C-5	NA	3.9		0.0	0.013 mr/hr	
15.0							0.0		
	-16.0 16.0	End of Borehole							
20.0									

First water, (8.0 fbgs).

**Drilled By:** Russo Development  
**Drill Rig Type:** AMS Power Probe 9500-VTR  
**Drill Method:** Directpush.  
**Comments:** Background radiological construction = 0.010 mr/hr  
**Drill Date(s):** 4/11/12 & 4/13/12

**Hole Size:** 3-inch  
**Stick-up:** NA  
**Datum:** Mean sea level.

**Sheet:** 1 of 1



Project No: 0247-012-100

Borehole Number: EP-22

Project: Phase II Investigation

A.K.A.:

Client: Rock One Development, Inc.

Logged By: TAB

Site Location: 600 River Rd. Tonawanda, NY

Checked By: BCH



TurnKey Environmental Restoration, LLC  
 2558 Hamburg Turnpike, Suite 300  
 Buffalo, NY 14218  
 (716) 856-0635

SUBSURFACE PROFILE			SAMPLE				PID VOCs ppm 0 12.5 25	Lab Sample	Well Completion Details or Remarks
Depth (fbgs)	Elev. /Depth	Description (ASTM D2488: Visual-Manual Procedure)	Sample No.	SPT N-Value	Recovery (ft)	Symbol			
0.0	0.0 0.0	Ground Surface							
		<b>Poorly Graded Sand w/ Silt Gravel and Fill</b> Brown, moist, mostly fine sand, some non-plastic fines, little fine gravel (slag), cinders, orange brick, dense, loose when disturbed.					1.2		
	-2.0 2.0	<b>Poorly Graded Sand</b> Brown, mostly fine sand, trace non-plastic fines, medium dense, loose when disturbed.	C-1	NA	2.6		0.0	Sample Interval 0.010 mr/hr	
	-4.5 4.5	<b>Slag/Fill</b> White, moist to wet (7.0 fbgs), mostly coarse gravel (slag). very dense, loose when disturbed, weathered.	C-2	NA	1.2		0.0	0.010 mr/hr	
	-8.0 8.0	<b>No Recovery</b>					0.0		
10.0			C-3	NA	0.0		0.0	NA	
	-12.0 12.0	<b>Poorly Graded Sand with Silt</b> Grey, wet, mostly fine sand, few non-plastic fines, medium dense, loose when disturbed.	C-4	NA	2.1		0.0	0.007 mr/hr	
15.0							0.0		
	-16.0 16.0	End of Borehole							
20.0									

First water (7.0 fbgs)

Drilled By: Russo Development  
 Drill Rig Type: AMS Power Probe 9500-VTR  
 Drill Method: Directpush.  
 Comments: Background radiological concentration = 0.010 mr/hr  
 Drill Date(s): 4/11/12 & 4/13/12

Hole Size: 3-inch  
 Stick-up: NA  
 Datum: Mean sea level.

Sheet: 1 of 1

Project No: 0247-012-100

Borehole Number: EP-23

Project: Phase II Investigation

A.K.A.:

Client: Rock One Development, Inc.

Logged By: TAB

Site Location: 600 River Rd. Tonawanda, NY

Checked By: BCH



TurnKey Environmental Restoration, LLC  
 2558 Hamburg Turnpike, Suite 300  
 Buffalo, NY 14218  
 (716) 856-0635

SUBSURFACE PROFILE			SAMPLE				PID VOCs ppm 0 12.5 25	Lab Sample	Well Completion Details or Remarks
Depth (fbgs)	Elev. /Depth	Description (ASTM D2488: Visual-Manual Procedure)	Sample No.	SPT N-Value	Recovery (ft)	Symbol			
0.0	0.0 0.0	Ground Surface <b>Poorly Graded Sand w/ Silt Gravel and Fill</b> Brown/grey, moist, mostly fine sand, some non-plastic fines, little fine gravel (slag), cinders, dense, loose when disturbed.	C-1	NA	2.0	1.1	0.012 mr/hr	First water, (7.0 fbgs).	
5.0	-4.0 4.0	<b>Slag/Fill</b> White/grey, moist to wet (7.0 fbgs), mostly coarse gravel (slag), very dense, loose when disturbed.	C-2	NA	1.3	0.3	0.010 mr/hr		
10.0			C-3	NA	1.0	0.0	0.009 mr/hr		
15.0	-12.0 12.0	<b>No Recovery</b>	C-4	NA	0.0	0.0	NA		
20.0	-16.0 16.0	End of Borehole							

Drilled By: Russo Development  
 Drill Rig Type: AMS Power Probe 9500-VTR  
 Drill Method: Directpush.  
 Comments: Background radiological concentration  
 Drill Date(s): 4/11/12 & 4/13/12

Hole Size: 3-inch  
 Stick-up: NA  
 Datum: Mean sea level.

Sheet: 1 of 1

**Project No:** 0247-012-100

**Borehole Number:** EP-24

**Project:** Phase II Investigation

**A.K.A.:**

**Client:** Rock One Development, Inc.

**Logged By:** TAB

**Site Location:** 600 River Rd. Tonawanda, NY

**Checked By:** BCH



**TurnKey Environmental Restoration, LLC**  
 2558 Hamburg Turnpike, Suite 300  
 Buffalo, NY 14218  
 (716) 856-0635

SUBSURFACE PROFILE			SAMPLE				PID VOCs ppm 0 12.5 25	Lab Sample	Well Completion Details or Remarks
Depth (fbgs)	Elev. /Depth	Description (ASTM D2488: Visual-Manual Procedure)	Sample No.	SPT N-Value	Recovery (ft)	Symbol			
0.0	0.0 0.0	Ground Surface							
		<b>Poorly Graded Sand w/ Silt Gravel and Fill</b> Dark brown/black, moist, mostly fine sand, few non-plastic fines, little fine gravel (slag), cinders, dense, loose when disturbed.	S-1	NA	2.5		0.0	0-4 fbgs	0.016 mr/hr
5.0	-6.0 6.0	<b>Poorly Graded Sand with Silt</b> Brown, moist to wet (7.0 fbgs), mostly fine sand, few non-plastic fines, medium dense loose when disturbed.	S-2	NA	2.6		0.0		0.010 mr/hr
10.0	-8.0 8.0	As above, wet, rapid dilatancy.	S-3	NA	2.9		0.0		0.007 mr/hr
15.0	-12.0 12.0	As above.	S-4	NA	2.8		0.0		0.013 mr/hr
	-16.0 16.0	End of Borehole							
20.0									

First water, (7.0 fbgs)

**Drilled By:** Russo Development  
**Drill Rig Type:** AMS Power Probe 9500-VTR  
**Drill Method:** Directpush.  
**Comments:** background radiological concentration = 0.010 mr/hr  
**Drill Date(s):** 4/11/12 & 4/13/12

**Hole Size:** 3-inch  
**Stick-up:** NA  
**Datum:** Mean sea level.

**Sheet:** 1 of 1

Project No: 0247-012-100

Borehole Number: EP-25

Project: Phase II Investigation

A.K.A.:

Client: Rock One Development, Inc.

Logged By: TAB

Site Location: 600 River Rd. Tonawanda, NY

Checked By: BCH



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 2558 Hamburg Turnpike, Suite 300  
 Buffalo, NY 14218  
 (716) 856-0635

SUBSURFACE PROFILE			SAMPLE				PID VOCs ppm 0 12.5 25	Lab Sample	Well Completion Details or Remarks
Depth (fbgs)	Elev. /Depth	Description (ASTM D2488: Visual-Manual Procedure)	Sample No.	SPT N-Value	Recovery (ft)	Symbol			
0.0	0.0 0.0	Ground Surface							
		<b>Poorly Graded Sand w/ Silt and Gravel w/ Fill</b> Brown/Dark brown, moist, mostly fine sand, some non-plastic fines, little fine gravel (slag), cinders, red brick, dense, loose when disturbed.	S-1	NA	2.0		0.0	0.010 mr/hr	
		As above, red.					0.1		
5.0	-4.0 4.0		S-2	NA	1.3		0.3	0.010 mr/hr	
		As above.					0.0		
10.0	-8.0 8.0		S-3	NA	1.0		2.3	8-12 fbgs 0.011 mr/hr	
		As above.					0.0		
		<b>Sandy Lean Clay</b> Dark brown, moist, mostly, low plasticity fines, some fine sand, stiff, medium toughness, rootlets.					0.0		
15.0	-12.0 12.0		S-4	NA	0.0		0.0	0.010 mr/hr	
		<b>Poorly Graded Sand with Silt</b> Grey, wet (14.0 fbgs), mostly fine sand, few non-plastic fines, medium dense, loose when disturbed.					0.0		
		End of Borehole							
20.0	-16.0 16.0								

First water, (14.0 fbgs).

Drilled By: Russo Development  
 Drill Rig Type: AMS Power Probe 9500-VTR  
 Drill Method: Directpush.  
 Comments: Radiological concentration = 0.010 mr/hr  
 Drill Date(s): 4/11/12 & 4/13/12

Hole Size: 3-inch  
 Stick-up: NA  
 Datum: Mean sea level.

Sheet: 1 of 1

**Project No:** 0247-012-100

**Borehole Number:** EP-26

**Project:** Phase II Investigation

**A.K.A.:**

**Client:** Rock One Development, Inc.

**Logged By:** TAB

**Site Location:** 600 River Rd. Tonawanda, NY

**Checked By:** BCH



**TurnKey Environmental Restoration, LLC**  
 2558 Hamburg Turnpike, Suite 300  
 Buffalo, NY 14218  
 (716) 856-0635

SUBSURFACE PROFILE			SAMPLE				PID VOCs ppm 0 12.5 25	Lab Sample	Well Completion Details or Remarks
Depth (fbgs)	Elev. /Depth	Description (ASTM D2488: Visual-Manual Procedure)	Sample No.	SPT N-Value	Recovery (ft)	Symbol			
0.0	0.0 0.0	Ground Surface							
		<b>Poorly Graded Sand w/ Silt and Gravel w/ Fill</b> Brown/Dark brown, moist, mostly fine sand, some non-plastic fines, little fine gravel (slag), cinders, red brick, very dense, loose when disturbed.	C-1	NA	2.5		0.0	Sample Interval	0.011 mr/hr
		As above, reddish brown.					0.0		
5.0	-4.0 4.0		C-2	NA	2.0		0.0		0.009 mr/hr
							0.0		
		<b>Slag/Fill</b> Grey, moist to wet (9.0fbgs), mostly coarse gravel (slag), some non-plastic fines. equipment refusal at 10.0 fbgs.	C-3	NA	0.8		0.0		0.011 mr/hr
10.0	-8.0 8.0								First water, (9.0 fbgs).
		End of Borehole							
15.0	-10.0 10.0								
20.0									

**Drilled By:** Russo Development  
**Drill Rig Type:** AMS Power Probe 9500-VTR  
**Drill Method:** Directpush.  
**Comments:** Background radiological concentration = 0.010 mr/hr  
**Drill Date(s):** 4/11/12 & 4/13/12

**Hole Size:** 3-inch  
**Stick-up:** NA  
**Datum:** Mean sea level.

**Sheet:** 1 of 1

Project No: 0247-012-100

Borehole Number: EP-27

Project: Phase II Investigation

A.K.A.:

Client: Rock One Development, Inc.

Logged By: TAB

Site Location: 600 River Rd. Tonawanda, NY

Checked By: BCH



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 2558 Hamburg Turnpike, Suite 300  
 Buffalo, NY 14218  
 (716) 856-0635

SUBSURFACE PROFILE			SAMPLE				PID VOCs ppm 0 12.5 25	Lab Sample	Well Completion Details or Remarks
Depth (fbgs)	Elev. /Depth	Description (ASTM D2488: Visual-Manual Procedure)	Sample No.	SPT N-Value	Recovery (ft)	Symbol			
0.0	0.0 0.0	Ground Surface <b>Poorly Graded Sand w/ Silt Gravel and Fill</b> Reddish brown/black/white, moist, mostly fine sand, some non-plastic fines, little fine gravel (slag), cinders, coal pieces, very dense, loose when disturbed.	S-1	NA	2.8	•	0-4 fbgs	0.010 mr/hr	
						•			
5.0	-6.0 6.0	<b>Slag/Fill</b> White/grey, weatherd coarse gravel (slag).	S-2	NA	1.9	•		0.009 mr/hr	
						•			
10.0	-9.0 9.0	<b>Poorly Graded Sand with Silt</b> Dark grey, moist to wet (9.0 fbgs), mostly fine sand, few non-plastic fines, trace fine gravel (sub-rounded), medium dense, loose when deisturbed, rapid dilatancy.	S-3	NA	2.1	•		0.009 mr/hr	
						•			
	-12.0 12.0	As above, no fine gravel.	S-4	NA	3.0	•		0.009 mr/hr	
						•			
15.0	-16.0 16.0	End of Borehole							
20.0									

First water, (9.0 fbgs).

Drilled By: Russo Development

Drill Rig Type: AMS Power Probe 9500-VTR

Drill Method: Directpush.

Comments: Background Radiological concentration = 0.010 mr/hr

Drill Date(s): 4/11/12 & 4/13/12

Hole Size: 3-inch

Stick-up: NA

Datum: Mean sea level.

Sheet: 1 of 1

**Project No:** 0247-012-100

**Borehole Number:** EP-28

**Project:** Phase II Investigation

**A.K.A.:**

**Client:** Rock One Development, Inc.

**Logged By:** TAB

**Site Location:** 600 River Rd. Tonawanda, NY

**Checked By:** BCH



**TurnKey Environmental Restoration, LLC**  
 2558 Hamburg Turnpike, Suite 300  
 Buffalo, NY 14218  
 (716) 856-0635

SUBSURFACE PROFILE			SAMPLE				PID VOCs ppm 0 12.5 25	Lab Sample	Well Completion Details or Remarks
Depth (fbgs)	Elev. /Depth	Description (ASTM D2488: Visual-Manual Procedure)	Sample No.	SPT N-Value	Recovery (ft)	Symbol			
0.0	0.0	Ground Surface							
	0.0	<b>Sandy Lean Clay</b> Dark brown, moist, mostly low plasticity fines, some fine sand, trace coarse gravel, stiff, rootlets.					0.0		
	-1.0						0.0		
	1.0	<b>Poorly Graded Sand w/ Silt Gravel and Fill</b> Reddish brown/black, moist, mostly fine sand, some non-plastic fines, little fine gravel (slag), cinders, very dense, loose when disturbed.	S-1	NA	1.6		0.0	0.016 mr/hr	
							0.0		
5.0							0.0		
	-6.0						0.0		
	6.0	<b>Slag/Fill</b> White with black spots, weathered coarse gravel (slag).	S-2	NA	2.6		0.0	4-7 fbgs 0.009 mr/hr	
							0.0		
	-8.0						0.0		
	8.0	<b>Lean Clay with Sand and Fill</b> Grey, moist to wet (8.0fbgs), mostly medium plasticity fines, little fine sand, stiff, cinders, orange brick.	S-3	NA	1.3		0.0	0.011 mr/hr	
10.0							0.0		
	-12.0						0.0		
	12.0	<b>No Recovery</b>	S-4	NA	0.0				
15.0									
	-16.0								
	16.0	End of Borehole							
20.0									

First water, (8.0 fbgs).

**Drilled By:** Russo Development  
**Drill Rig Type:** AMS Power Probe 9500-VTR  
**Drill Method:** Directpush.  
**Comments:** Background radiological concentration = 0.010 mr/hr  
**Drill Date(s):** 4/11/12 & 4/13/12

**Hole Size:** 3-inch  
**Stick-up:** NA  
**Datum:** Mean sea level.

**Sheet:** 1 of 1

---

# APPENDIX C

---

## LABORATORY ANALYTICAL DATA



# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

## ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Buffalo

10 Hazelwood Drive

Amherst, NY 14228-2298

Tel: (716)691-2600

TestAmerica Job ID: 480-18577-1

Client Project/Site: Turnkey - 600 River Rd site

For:

Turnkey Environmental Restoration, LLC

2558 Hamburg Turnpike

Suite 300

Lackawanna, New York 14218

Attn: Nate Munley



Authorized for release by:

4/26/2012 5:34:07 PM

Brian Fischer

Project Manager II

[brian.fischer@testamericainc.com](mailto:brian.fischer@testamericainc.com)

### LINKS

Review your project  
results through

TotalAccess

Have a Question?



Visit us at:

[www.testamericainc.com](http://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.*

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## Definitions/Glossary

Client: Turnkey Environmental Restoration, LLC  
Project/Site: Turnkey - 600 River Rd site

TestAmerica Job ID: 480-18577-1

### Qualifiers

#### GC/MS Semi VOA

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

#### Metals

Qualifier	Qualifier Description
F	MS or MSD exceeds the control limits
F	RPD of the MS and MSD exceeds the control limits

### Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DL, RA, RE, IN	Indicates a Dilution, Reanalysis, Re-extraction, or additional Initial metals/anion analysis of the sample
EDL	Estimated Detection Limit
EPA	United States Environmental Protection Agency
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RL	Reporting Limit
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

# Case Narrative

Client: Turnkey Environmental Restoration, LLC  
Project/Site: Turnkey - 600 River Rd site

TestAmerica Job ID: 480-18577-1

**Job ID: 480-18577-1**

**Laboratory: TestAmerica Buffalo**

## Narrative

**Job Narrative  
480-18577-1**

### Comments

No additional comments.

### Receipt

The samples were received on 4/13/2012 9:00 AM; the samples arrived in good condition, properly preserved and on ice. The temperature of the cooler at receipt was 4.10 C.

### GC Semi VOA

No analytical or quality issues were noted.

### Metals

Method(s) 6010B: The Serial Dilution and Post Spike (480-18577-3 PDS), (480-18577-3 SD) exceeded the quality control limits for total barium and chromium. Sample matrix is suspected, therefore, no corrective action was necessary.

Method(s) 6010B: The Serial Dilution (480-18577-3 SD) in batch 480-59816, exhibited a result outside the quality control limits for total cadmium. However, the Post Digestion Spike was compliant so no corrective action was necessary

Method(s) 6010B: The recoveries of Post Spike, (480-18577-3 PDS), in batch 480-59816 exhibited results outside the quality control limits for total arsenic and selenium. However, the Serial Dilution of this sample was compliant. Therefore, no corrective action was necessary

Method(s) 6010B: The Matrix Spike/ Matrix Spike Duplicate ( (480-18577-3 MS), (480-18577-3 MSD)) recoveries for total lead and selenium in batch 480-59816 were outside control limits. The Matrix Spike was also outside quality control limits for total beryllium. The Matrix Spike Duplicate was also outside quality control limits for total silver, arsenic, barium, and chromium. Non-homogeneity of the sample matrix is suspected. The associated Laboratory Control Sample (LCS) met acceptance criteria, therefore no corrective action was necessary.

Method(s) 6010B: The Matrix Spike / Matrix Spike Duplicate ( (480-18577-3 MS), (480-18577-3 MSD)) precision for batch 480-59816 was outside control limits for total barium. Non-homogeneity of the sample matrix is suspected. The associated Laboratory Control Sample met acceptance criteria, therefore, no corrective action was necessary.

No other analytical or quality issues were noted.

### Organic Prep

No analytical or quality issues were noted.

# Detection Summary

Client: Turnkey Environmental Restoration, LLC  
 Project/Site: Turnkey - 600 River Rd site

TestAmerica Job ID: 480-18577-1

**Client Sample ID: EP-19 (0-4)**

**Lab Sample ID: 480-18577-1**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Biphenyl	18	J	200	12	ug/Kg	1	☼	8270C	Total/NA
2-Methylnaphthalene	130	J	200	2.4	ug/Kg	1	☼	8270C	Total/NA
Acenaphthene	8.9	J	200	2.3	ug/Kg	1	☼	8270C	Total/NA
Acenaphthylene	10	J	200	1.6	ug/Kg	1	☼	8270C	Total/NA
Anthracene	31	J	200	5.0	ug/Kg	1	☼	8270C	Total/NA
Benzo(a)anthracene	110	J	200	3.4	ug/Kg	1	☼	8270C	Total/NA
Benzo(a)pyrene	110	J	200	4.7	ug/Kg	1	☼	8270C	Total/NA
Benzo(b)fluoranthene	170	J	200	3.8	ug/Kg	1	☼	8270C	Total/NA
Benzo(g,h,i)perylene	140	J	200	2.4	ug/Kg	1	☼	8270C	Total/NA
Benzo(k)fluoranthene	79	J	200	2.2	ug/Kg	1	☼	8270C	Total/NA
Caprolactam	170	J	200	85	ug/Kg	1	☼	8270C	Total/NA
Carbazole	16	J	200	2.3	ug/Kg	1	☼	8270C	Total/NA
Chrysene	130	J	200	2.0	ug/Kg	1	☼	8270C	Total/NA
Dibenzofuran	43	J	200	2.0	ug/Kg	1	☼	8270C	Total/NA
Fluoranthene	170	J	200	2.8	ug/Kg	1	☼	8270C	Total/NA
Fluorene	12	J	200	4.5	ug/Kg	1	☼	8270C	Total/NA
Indeno(1,2,3-cd)pyrene	38	J	200	5.4	ug/Kg	1	☼	8270C	Total/NA
Naphthalene	77	J	200	3.3	ug/Kg	1	☼	8270C	Total/NA
Phenanthrene	190	J	200	4.1	ug/Kg	1	☼	8270C	Total/NA
Pyrene	140	J	200	1.3	ug/Kg	1	☼	8270C	Total/NA
Arsenic	12.7		2.1		mg/Kg	1	☼	6010B	Total/NA
Barium	417		0.54		mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.43		0.21		mg/Kg	1	☼	6010B	Total/NA
Chromium	12.2		0.54		mg/Kg	1	☼	6010B	Total/NA
Lead	249		1.1		mg/Kg	1	☼	6010B	Total/NA
Mercury	0.047		0.024		mg/Kg	1	☼	7471A	Total/NA

**Client Sample ID: EP-24 (0-4)**

**Lab Sample ID: 480-18577-2**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Methylnaphthalene	15	J	190	2.3	ug/Kg	1	☼	8270C	Total/NA
Anthracene	17	J	190	4.9	ug/Kg	1	☼	8270C	Total/NA
Benzo(a)anthracene	83	J	190	3.3	ug/Kg	1	☼	8270C	Total/NA
Benzo(a)pyrene	92	J	190	4.6	ug/Kg	1	☼	8270C	Total/NA
Benzo(b)fluoranthene	140	J	190	3.7	ug/Kg	1	☼	8270C	Total/NA
Benzo(g,h,i)perylene	66	J	190	2.3	ug/Kg	1	☼	8270C	Total/NA
Benzo(k)fluoranthene	63	J	190	2.1	ug/Kg	1	☼	8270C	Total/NA
Chrysene	120	J	190	1.9	ug/Kg	1	☼	8270C	Total/NA
Fluoranthene	110	J	190	2.7	ug/Kg	1	☼	8270C	Total/NA
Indeno(1,2,3-cd)pyrene	63	J	190	5.2	ug/Kg	1	☼	8270C	Total/NA
Phenanthrene	52	J	190	4.0	ug/Kg	1	☼	8270C	Total/NA
Pyrene	120	J	190	1.2	ug/Kg	1	☼	8270C	Total/NA
Arsenic	7.0		2.3		mg/Kg	1	☼	6010B	Total/NA
Barium	82.8		0.59		mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.70		0.23		mg/Kg	1	☼	6010B	Total/NA
Chromium	22.7		0.59		mg/Kg	1	☼	6010B	Total/NA
Lead	79.7		1.2		mg/Kg	1	☼	6010B	Total/NA
Mercury	0.096		0.020		mg/Kg	1	☼	7471A	Total/NA

**Client Sample ID: EP-27 (0-4)**

**Lab Sample ID: 480-18577-3**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Methylnaphthalene	74	J	190	2.3	ug/Kg	1	☼	8270C	Total/NA
Acenaphthylene	120	J	190	1.6	ug/Kg	1	☼	8270C	Total/NA

## Detection Summary

Client: Turnkey Environmental Restoration, LLC  
 Project/Site: Turnkey - 600 River Rd site

TestAmerica Job ID: 480-18577-1

### Client Sample ID: EP-27 (0-4) (Continued)

### Lab Sample ID: 480-18577-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Anthracene	66	J	190	4.9	ug/Kg	1	☼	8270C	Total/NA
Benzo(a)anthracene	760		190	3.3	ug/Kg	1	☼	8270C	Total/NA
Benzo(a)pyrene	680		190	4.6	ug/Kg	1	☼	8270C	Total/NA
Benzo(b)fluoranthene	1100		190	3.7	ug/Kg	1	☼	8270C	Total/NA
Benzo(g,h,i)perylene	340		190	2.3	ug/Kg	1	☼	8270C	Total/NA
Benzo(k)fluoranthene	120	J	190	2.1	ug/Kg	1	☼	8270C	Total/NA
Chrysene	750		190	1.9	ug/Kg	1	☼	8270C	Total/NA
Dibenz(a,h)anthracene	72	J	190	2.3	ug/Kg	1	☼	8270C	Total/NA
Fluoranthene	1500		190	2.8	ug/Kg	1	☼	8270C	Total/NA
Indeno(1,2,3-cd)pyrene	350		190	5.3	ug/Kg	1	☼	8270C	Total/NA
Naphthalene	61	J	190	3.2	ug/Kg	1	☼	8270C	Total/NA
Phenanthrene	170	J	190	4.0	ug/Kg	1	☼	8270C	Total/NA
Pyrene	1600		190	1.2	ug/Kg	1	☼	8270C	Total/NA
Arsenic	10.2		2.1		mg/Kg	1	☼	6010B	Total/NA
Barium	171		0.54		mg/Kg	1	☼	6010B	Total/NA
Cadmium	1.2		0.21		mg/Kg	1	☼	6010B	Total/NA
Chromium	19.4		0.54		mg/Kg	1	☼	6010B	Total/NA
Lead	163		1.1		mg/Kg	1	☼	6010B	Total/NA
Mercury	0.089		0.023		mg/Kg	1	☼	7471A	Total/NA

### Client Sample ID: EP-22 (0-4)

### Lab Sample ID: 480-18577-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Methylnaphthalene	23	J	200	2.4	ug/Kg	1	☼	8270C	Total/NA
Acenaphthene	14	J	200	2.4	ug/Kg	1	☼	8270C	Total/NA
Anthracene	39	J	200	5.2	ug/Kg	1	☼	8270C	Total/NA
Benzo(a)anthracene	180	J	200	3.5	ug/Kg	1	☼	8270C	Total/NA
Benzo(a)pyrene	130	J	200	4.9	ug/Kg	1	☼	8270C	Total/NA
Benzo(b)fluoranthene	240		200	3.9	ug/Kg	1	☼	8270C	Total/NA
Benzo(g,h,i)perylene	89	J	200	2.4	ug/Kg	1	☼	8270C	Total/NA
Benzo(k)fluoranthene	71	J	200	2.2	ug/Kg	1	☼	8270C	Total/NA
Carbazole	24	J	200	2.3	ug/Kg	1	☼	8270C	Total/NA
Chrysene	200		200	2.0	ug/Kg	1	☼	8270C	Total/NA
Dibenz(a,h)anthracene	20	J	200	2.4	ug/Kg	1	☼	8270C	Total/NA
Dibenzofuran	12	J	200	2.1	ug/Kg	1	☼	8270C	Total/NA
Fluoranthene	300		200	2.9	ug/Kg	1	☼	8270C	Total/NA
Indeno(1,2,3-cd)pyrene	88	J	200	5.6	ug/Kg	1	☼	8270C	Total/NA
Phenanthrene	190	J	200	4.2	ug/Kg	1	☼	8270C	Total/NA
Pyrene	300		200	1.3	ug/Kg	1	☼	8270C	Total/NA
Arsenic	16.2		2.2		mg/Kg	1	☼	6010B	Total/NA
Barium	148		0.56		mg/Kg	1	☼	6010B	Total/NA
Cadmium	1.5		0.22		mg/Kg	1	☼	6010B	Total/NA
Chromium	17.5		0.56		mg/Kg	1	☼	6010B	Total/NA
Lead	167		1.1		mg/Kg	1	☼	6010B	Total/NA
Mercury	0.10		0.023		mg/Kg	1	☼	7471A	Total/NA

### Client Sample ID: EP-26 (0-4)

### Lab Sample ID: 480-18577-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Methylnaphthalene	24	J	200	2.4	ug/Kg	1	☼	8270C	Total/NA
Acenaphthene	10	J	200	2.4	ug/Kg	1	☼	8270C	Total/NA
Acenaphthylene	15	J	200	1.6	ug/Kg	1	☼	8270C	Total/NA
Anthracene	43	J	200	5.2	ug/Kg	1	☼	8270C	Total/NA
Benzo(a)anthracene	180	J	200	3.5	ug/Kg	1	☼	8270C	Total/NA

# Detection Summary

Client: Turnkey Environmental Restoration, LLC  
 Project/Site: Turnkey - 600 River Rd site

TestAmerica Job ID: 480-18577-1

## Client Sample ID: EP-26 (0-4) (Continued)

Lab Sample ID: 480-18577-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo(a)pyrene	180	J	200	4.9	ug/Kg	1	☼	8270C	Total/NA
Benzo(b)fluoranthene	220		200	3.9	ug/Kg	1	☼	8270C	Total/NA
Benzo(g,h,i)perylene	81	J	200	2.4	ug/Kg	1	☼	8270C	Total/NA
Benzo(k)fluoranthene	100	J	200	2.2	ug/Kg	1	☼	8270C	Total/NA
Carbazole	19	J	200	2.3	ug/Kg	1	☼	8270C	Total/NA
Chrysene	180	J	200	2.0	ug/Kg	1	☼	8270C	Total/NA
Fluoranthene	340		200	2.9	ug/Kg	1	☼	8270C	Total/NA
Indeno(1,2,3-cd)pyrene	83	J	200	5.6	ug/Kg	1	☼	8270C	Total/NA
Phenanthrene	160	J	200	4.2	ug/Kg	1	☼	8270C	Total/NA
Pyrene	300		200	1.3	ug/Kg	1	☼	8270C	Total/NA
Arsenic	7.0		2.4		mg/Kg	1	☼	6010B	Total/NA
Barium	243		0.60		mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.36		0.24		mg/Kg	1	☼	6010B	Total/NA
Chromium	18.8		0.60		mg/Kg	1	☼	6010B	Total/NA
Lead	55.6		1.2		mg/Kg	1	☼	6010B	Total/NA
Mercury	0.031		0.024		mg/Kg	1	☼	7471A	Total/NA

## Client Sample ID: EP-21 (3-7)

Lab Sample ID: 480-18577-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Biphenyl	35	J	220	14	ug/Kg	1	☼	8270C	Total/NA
2-Methylnaphthalene	280		220	2.7	ug/Kg	1	☼	8270C	Total/NA
Acenaphthene	180	J	220	2.6	ug/Kg	1	☼	8270C	Total/NA
Acenaphthylene	180	J	220	1.8	ug/Kg	1	☼	8270C	Total/NA
Anthracene	370		220	5.6	ug/Kg	1	☼	8270C	Total/NA
Benzo(a)anthracene	1200		220	3.8	ug/Kg	1	☼	8270C	Total/NA
Benzo(a)pyrene	1200		220	5.3	ug/Kg	1	☼	8270C	Total/NA
Benzo(b)fluoranthene	2200		220	4.3	ug/Kg	1	☼	8270C	Total/NA
Benzo(g,h,i)perylene	600		220	2.6	ug/Kg	1	☼	8270C	Total/NA
Benzo(k)fluoranthene	950		220	2.4	ug/Kg	1	☼	8270C	Total/NA
Caprolactam	180	J	220	95	ug/Kg	1	☼	8270C	Total/NA
Carbazole	180	J	220	2.5	ug/Kg	1	☼	8270C	Total/NA
Chrysene	1400		220	2.2	ug/Kg	1	☼	8270C	Total/NA
Dibenz(a,h)anthracene	120	J	220	2.6	ug/Kg	1	☼	8270C	Total/NA
Dibenzofuran	140	J	220	2.3	ug/Kg	1	☼	8270C	Total/NA
Fluoranthene	1700		220	3.2	ug/Kg	1	☼	8270C	Total/NA
Fluorene	130	J	220	5.0	ug/Kg	1	☼	8270C	Total/NA
Indeno(1,2,3-cd)pyrene	640		220	6.1	ug/Kg	1	☼	8270C	Total/NA
Naphthalene	270		220	3.6	ug/Kg	1	☼	8270C	Total/NA
Phenanthrene	1100		220	4.6	ug/Kg	1	☼	8270C	Total/NA
Pyrene	1600		220	1.4	ug/Kg	1	☼	8270C	Total/NA
Arsenic	16.1		2.4		mg/Kg	1	☼	6010B	Total/NA
Barium	73.1		0.61		mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.63		0.24		mg/Kg	1	☼	6010B	Total/NA
Chromium	61.2		0.61		mg/Kg	1	☼	6010B	Total/NA
Lead	135		1.2		mg/Kg	1	☼	6010B	Total/NA
Mercury	0.091		0.025		mg/Kg	1	☼	7471A	Total/NA

## Client Sample ID: EP-25 (8-12)

Lab Sample ID: 480-18577-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	5.2		2.2		mg/Kg	1	☼	6010B	Total/NA
Barium	117		0.55		mg/Kg	1	☼	6010B	Total/NA
Chromium	6.6		0.55		mg/Kg	1	☼	6010B	Total/NA

# Detection Summary

Client: Turnkey Environmental Restoration, LLC  
Project/Site: Turnkey - 600 River Rd site

TestAmerica Job ID: 480-18577-1

## Client Sample ID: EP-25 (8-12) (Continued)

Lab Sample ID: 480-18577-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	9.7		1.1		mg/Kg	1	☼	6010B	Total/NA

## Client Sample ID: EP-28 (4-7)

Lab Sample ID: 480-18577-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	3.9		2.5		mg/Kg	1	☼	6010B	Total/NA
Barium	222		0.62		mg/Kg	1	☼	6010B	Total/NA
Chromium	3.6		0.62		mg/Kg	1	☼	6010B	Total/NA
Lead	2.0		1.2		mg/Kg	1	☼	6010B	Total/NA
Selenium	5.8		5.0		mg/Kg	1	☼	6010B	Total/NA



# Client Sample Results

Client: Turnkey Environmental Restoration, LLC  
 Project/Site: Turnkey - 600 River Rd site

TestAmerica Job ID: 480-18577-1

**Client Sample ID: EP-19 (0-4)**

**Lab Sample ID: 480-18577-1**

**Date Collected: 04/12/12 12:15**

**Matrix: Solid**

**Date Received: 04/13/12 09:00**

**Percent Solids: 85.6**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Biphenyl</b>	<b>18</b>	<b>J</b>	200	12	ug/Kg	☼	04/24/12 14:08	04/26/12 00:35	1
bis (2-chloroisopropyl) ether	ND		200	20	ug/Kg	☼	04/24/12 14:08	04/26/12 00:35	1
2,4,5-Trichlorophenol	ND		200	43	ug/Kg	☼	04/24/12 14:08	04/26/12 00:35	1
2,4,6-Trichlorophenol	ND		200	13	ug/Kg	☼	04/24/12 14:08	04/26/12 00:35	1
2,4-Dichlorophenol	ND		200	10	ug/Kg	☼	04/24/12 14:08	04/26/12 00:35	1
2,4-Dimethylphenol	ND		200	53	ug/Kg	☼	04/24/12 14:08	04/26/12 00:35	1
2,4-Dinitrophenol	ND		380	69	ug/Kg	☼	04/24/12 14:08	04/26/12 00:35	1
2,4-Dinitrotoluene	ND		200	30	ug/Kg	☼	04/24/12 14:08	04/26/12 00:35	1
2,6-Dinitrotoluene	ND		200	48	ug/Kg	☼	04/24/12 14:08	04/26/12 00:35	1
2-Chloronaphthalene	ND		200	13	ug/Kg	☼	04/24/12 14:08	04/26/12 00:35	1
2-Chlorophenol	ND		200	10	ug/Kg	☼	04/24/12 14:08	04/26/12 00:35	1
<b>2-Methylnaphthalene</b>	<b>130</b>	<b>J</b>	200	2.4	ug/Kg	☼	04/24/12 14:08	04/26/12 00:35	1
2-Methylphenol	ND		200	6.0	ug/Kg	☼	04/24/12 14:08	04/26/12 00:35	1
2-Nitroaniline	ND		380	63	ug/Kg	☼	04/24/12 14:08	04/26/12 00:35	1
2-Nitrophenol	ND		200	9.0	ug/Kg	☼	04/24/12 14:08	04/26/12 00:35	1
3,3'-Dichlorobenzidine	ND		200	170	ug/Kg	☼	04/24/12 14:08	04/26/12 00:35	1
3-Nitroaniline	ND		380	45	ug/Kg	☼	04/24/12 14:08	04/26/12 00:35	1
4,6-Dinitro-2-methylphenol	ND		380	68	ug/Kg	☼	04/24/12 14:08	04/26/12 00:35	1
4-Bromophenyl phenyl ether	ND		200	62	ug/Kg	☼	04/24/12 14:08	04/26/12 00:35	1
4-Chloro-3-methylphenol	ND		200	8.1	ug/Kg	☼	04/24/12 14:08	04/26/12 00:35	1
4-Chloroaniline	ND		200	58	ug/Kg	☼	04/24/12 14:08	04/26/12 00:35	1
4-Chlorophenyl phenyl ether	ND		200	4.2	ug/Kg	☼	04/24/12 14:08	04/26/12 00:35	1
4-Methylphenol	ND		380	11	ug/Kg	☼	04/24/12 14:08	04/26/12 00:35	1
4-Nitroaniline	ND		380	22	ug/Kg	☼	04/24/12 14:08	04/26/12 00:35	1
4-Nitrophenol	ND		380	48	ug/Kg	☼	04/24/12 14:08	04/26/12 00:35	1
<b>Acenaphthene</b>	<b>8.9</b>	<b>J</b>	200	2.3	ug/Kg	☼	04/24/12 14:08	04/26/12 00:35	1
<b>Acenaphthylene</b>	<b>10</b>	<b>J</b>	200	1.6	ug/Kg	☼	04/24/12 14:08	04/26/12 00:35	1
Acetophenone	ND		200	10	ug/Kg	☼	04/24/12 14:08	04/26/12 00:35	1
<b>Anthracene</b>	<b>31</b>	<b>J</b>	200	5.0	ug/Kg	☼	04/24/12 14:08	04/26/12 00:35	1
Atrazine	ND		200	8.7	ug/Kg	☼	04/24/12 14:08	04/26/12 00:35	1
Benzaldehyde	ND		200	22	ug/Kg	☼	04/24/12 14:08	04/26/12 00:35	1
<b>Benzo(a)anthracene</b>	<b>110</b>	<b>J</b>	200	3.4	ug/Kg	☼	04/24/12 14:08	04/26/12 00:35	1
<b>Benzo(a)pyrene</b>	<b>110</b>	<b>J</b>	200	4.7	ug/Kg	☼	04/24/12 14:08	04/26/12 00:35	1
<b>Benzo(b)fluoranthene</b>	<b>170</b>	<b>J</b>	200	3.8	ug/Kg	☼	04/24/12 14:08	04/26/12 00:35	1
<b>Benzo(g,h,i)perylene</b>	<b>140</b>	<b>J</b>	200	2.4	ug/Kg	☼	04/24/12 14:08	04/26/12 00:35	1
<b>Benzo(k)fluoranthene</b>	<b>79</b>	<b>J</b>	200	2.2	ug/Kg	☼	04/24/12 14:08	04/26/12 00:35	1
Bis(2-chloroethoxy)methane	ND		200	11	ug/Kg	☼	04/24/12 14:08	04/26/12 00:35	1
Bis(2-chloroethyl)ether	ND		200	17	ug/Kg	☼	04/24/12 14:08	04/26/12 00:35	1
Bis(2-ethylhexyl) phthalate	ND		200	63	ug/Kg	☼	04/24/12 14:08	04/26/12 00:35	1
Butyl benzyl phthalate	ND		200	53	ug/Kg	☼	04/24/12 14:08	04/26/12 00:35	1
<b>Caprolactam</b>	<b>170</b>	<b>J</b>	200	85	ug/Kg	☼	04/24/12 14:08	04/26/12 00:35	1
<b>Carbazole</b>	<b>16</b>	<b>J</b>	200	2.3	ug/Kg	☼	04/24/12 14:08	04/26/12 00:35	1
<b>Chrysene</b>	<b>130</b>	<b>J</b>	200	2.0	ug/Kg	☼	04/24/12 14:08	04/26/12 00:35	1
Di-n-butyl phthalate	ND		200	68	ug/Kg	☼	04/24/12 14:08	04/26/12 00:35	1
Di-n-octyl phthalate	ND		200	4.6	ug/Kg	☼	04/24/12 14:08	04/26/12 00:35	1
Dibenz(a,h)anthracene	ND		200	2.3	ug/Kg	☼	04/24/12 14:08	04/26/12 00:35	1
<b>Dibenzofuran</b>	<b>43</b>	<b>J</b>	200	2.0	ug/Kg	☼	04/24/12 14:08	04/26/12 00:35	1
Diethyl phthalate	ND		200	5.9	ug/Kg	☼	04/24/12 14:08	04/26/12 00:35	1
Dimethyl phthalate	ND		200	5.1	ug/Kg	☼	04/24/12 14:08	04/26/12 00:35	1
<b>Fluoranthene</b>	<b>170</b>	<b>J</b>	200	2.8	ug/Kg	☼	04/24/12 14:08	04/26/12 00:35	1
<b>Fluorene</b>	<b>12</b>	<b>J</b>	200	4.5	ug/Kg	☼	04/24/12 14:08	04/26/12 00:35	1

# Client Sample Results

Client: Turnkey Environmental Restoration, LLC  
 Project/Site: Turnkey - 600 River Rd site

TestAmerica Job ID: 480-18577-1

**Client Sample ID: EP-19 (0-4)**

**Lab Sample ID: 480-18577-1**

Date Collected: 04/12/12 12:15

Matrix: Solid

Date Received: 04/13/12 09:00

Percent Solids: 85.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorobenzene	ND		200	9.7	ug/Kg	☼	04/24/12 14:08	04/26/12 00:35	1
Hexachlorobutadiene	ND		200	10	ug/Kg	☼	04/24/12 14:08	04/26/12 00:35	1
Hexachlorocyclopentadiene	ND		200	59	ug/Kg	☼	04/24/12 14:08	04/26/12 00:35	1
Hexachloroethane	ND		200	15	ug/Kg	☼	04/24/12 14:08	04/26/12 00:35	1
<b>Indeno(1,2,3-cd)pyrene</b>	<b>38</b>	<b>J</b>	200	5.4	ug/Kg	☼	04/24/12 14:08	04/26/12 00:35	1
Isophorone	ND		200	9.8	ug/Kg	☼	04/24/12 14:08	04/26/12 00:35	1
N-Nitrosodi-n-propylamine	ND		200	16	ug/Kg	☼	04/24/12 14:08	04/26/12 00:35	1
N-Nitrosodiphenylamine	ND		200	11	ug/Kg	☼	04/24/12 14:08	04/26/12 00:35	1
<b>Naphthalene</b>	<b>77</b>	<b>J</b>	200	3.3	ug/Kg	☼	04/24/12 14:08	04/26/12 00:35	1
Nitrobenzene	ND		200	8.7	ug/Kg	☼	04/24/12 14:08	04/26/12 00:35	1
Pentachlorophenol	ND		380	67	ug/Kg	☼	04/24/12 14:08	04/26/12 00:35	1
<b>Phenanthrene</b>	<b>190</b>	<b>J</b>	200	4.1	ug/Kg	☼	04/24/12 14:08	04/26/12 00:35	1
Phenol	ND		200	21	ug/Kg	☼	04/24/12 14:08	04/26/12 00:35	1
<b>Pyrene</b>	<b>140</b>	<b>J</b>	200	1.3	ug/Kg	☼	04/24/12 14:08	04/26/12 00:35	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	92		39 - 146	04/24/12 14:08	04/26/12 00:35	1
2-Fluorobiphenyl	79		37 - 120	04/24/12 14:08	04/26/12 00:35	1
2-Fluorophenol	58		18 - 120	04/24/12 14:08	04/26/12 00:35	1
Nitrobenzene-d5	66		34 - 132	04/24/12 14:08	04/26/12 00:35	1
p-Terphenyl-d14	95		65 - 153	04/24/12 14:08	04/26/12 00:35	1
Phenol-d5	64		11 - 120	04/24/12 14:08	04/26/12 00:35	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		270	54	ug/Kg	☼	04/16/12 09:22	04/16/12 16:50	1
PCB-1221	ND		270	54	ug/Kg	☼	04/16/12 09:22	04/16/12 16:50	1
PCB-1232	ND		270	54	ug/Kg	☼	04/16/12 09:22	04/16/12 16:50	1
PCB-1242	ND		270	54	ug/Kg	☼	04/16/12 09:22	04/16/12 16:50	1
PCB-1248	ND		270	54	ug/Kg	☼	04/16/12 09:22	04/16/12 16:50	1
PCB-1254	ND		270	130	ug/Kg	☼	04/16/12 09:22	04/16/12 16:50	1
PCB-1260	ND		270	130	ug/Kg	☼	04/16/12 09:22	04/16/12 16:50	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	100		36 - 182	04/16/12 09:22	04/16/12 16:50	1
Tetrachloro-m-xylene	106		24 - 172	04/16/12 09:22	04/16/12 16:50	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Arsenic</b>	<b>12.7</b>		2.1		mg/Kg	☼	04/16/12 14:45	04/17/12 20:49	1
<b>Barium</b>	<b>417</b>		0.54		mg/Kg	☼	04/16/12 14:45	04/17/12 20:49	1
<b>Cadmium</b>	<b>0.43</b>		0.21		mg/Kg	☼	04/16/12 14:45	04/17/12 20:49	1
<b>Chromium</b>	<b>12.2</b>		0.54		mg/Kg	☼	04/16/12 14:45	04/17/12 20:49	1
<b>Lead</b>	<b>249</b>		1.1		mg/Kg	☼	04/16/12 14:45	04/17/12 20:49	1
Selenium	ND		4.3		mg/Kg	☼	04/16/12 14:45	04/17/12 20:49	1
Silver	ND		0.54		mg/Kg	☼	04/16/12 14:45	04/17/12 20:49	1

**Method: 7471A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>0.047</b>		0.024		mg/Kg	☼	04/17/12 09:30	04/17/12 13:47	1

# Client Sample Results

Client: Turnkey Environmental Restoration, LLC  
 Project/Site: Turnkey - 600 River Rd site

TestAmerica Job ID: 480-18577-1

**Client Sample ID: EP-24 (0-4)**

**Lab Sample ID: 480-18577-2**

Date Collected: 04/12/12 11:40

Matrix: Solid

Date Received: 04/13/12 09:00

Percent Solids: 88.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Biphenyl	ND		190	12	ug/Kg	☼	04/24/12 14:08	04/26/12 00:59	1
bis (2-chloroisopropyl) ether	ND		190	20	ug/Kg	☼	04/24/12 14:08	04/26/12 00:59	1
2,4,5-Trichlorophenol	ND		190	41	ug/Kg	☼	04/24/12 14:08	04/26/12 00:59	1
2,4,6-Trichlorophenol	ND		190	13	ug/Kg	☼	04/24/12 14:08	04/26/12 00:59	1
2,4-Dichlorophenol	ND		190	9.9	ug/Kg	☼	04/24/12 14:08	04/26/12 00:59	1
2,4-Dimethylphenol	ND		190	51	ug/Kg	☼	04/24/12 14:08	04/26/12 00:59	1
2,4-Dinitrophenol	ND		370	66	ug/Kg	☼	04/24/12 14:08	04/26/12 00:59	1
2,4-Dinitrotoluene	ND		190	29	ug/Kg	☼	04/24/12 14:08	04/26/12 00:59	1
2,6-Dinitrotoluene	ND		190	46	ug/Kg	☼	04/24/12 14:08	04/26/12 00:59	1
2-Chloronaphthalene	ND		190	13	ug/Kg	☼	04/24/12 14:08	04/26/12 00:59	1
2-Chlorophenol	ND		190	9.7	ug/Kg	☼	04/24/12 14:08	04/26/12 00:59	1
<b>2-Methylnaphthalene</b>	<b>15</b>	<b>J</b>	190	2.3	ug/Kg	☼	04/24/12 14:08	04/26/12 00:59	1
2-Methylphenol	ND		190	5.8	ug/Kg	☼	04/24/12 14:08	04/26/12 00:59	1
2-Nitroaniline	ND		370	61	ug/Kg	☼	04/24/12 14:08	04/26/12 00:59	1
2-Nitrophenol	ND		190	8.7	ug/Kg	☼	04/24/12 14:08	04/26/12 00:59	1
3,3'-Dichlorobenzidine	ND		190	170	ug/Kg	☼	04/24/12 14:08	04/26/12 00:59	1
3-Nitroaniline	ND		370	44	ug/Kg	☼	04/24/12 14:08	04/26/12 00:59	1
4,6-Dinitro-2-methylphenol	ND		370	65	ug/Kg	☼	04/24/12 14:08	04/26/12 00:59	1
4-Bromophenyl phenyl ether	ND		190	60	ug/Kg	☼	04/24/12 14:08	04/26/12 00:59	1
4-Chloro-3-methylphenol	ND		190	7.8	ug/Kg	☼	04/24/12 14:08	04/26/12 00:59	1
4-Chloroaniline	ND		190	56	ug/Kg	☼	04/24/12 14:08	04/26/12 00:59	1
4-Chlorophenyl phenyl ether	ND		190	4.0	ug/Kg	☼	04/24/12 14:08	04/26/12 00:59	1
4-Methylphenol	ND		370	11	ug/Kg	☼	04/24/12 14:08	04/26/12 00:59	1
4-Nitroaniline	ND		370	21	ug/Kg	☼	04/24/12 14:08	04/26/12 00:59	1
4-Nitrophenol	ND		370	46	ug/Kg	☼	04/24/12 14:08	04/26/12 00:59	1
Acenaphthene	ND		190	2.2	ug/Kg	☼	04/24/12 14:08	04/26/12 00:59	1
Acenaphthylene	ND		190	1.6	ug/Kg	☼	04/24/12 14:08	04/26/12 00:59	1
Acetophenone	ND		190	9.7	ug/Kg	☼	04/24/12 14:08	04/26/12 00:59	1
<b>Anthracene</b>	<b>17</b>	<b>J</b>	190	4.9	ug/Kg	☼	04/24/12 14:08	04/26/12 00:59	1
Atrazine	ND		190	8.4	ug/Kg	☼	04/24/12 14:08	04/26/12 00:59	1
Benzaldehyde	ND		190	21	ug/Kg	☼	04/24/12 14:08	04/26/12 00:59	1
<b>Benzo(a)anthracene</b>	<b>83</b>	<b>J</b>	190	3.3	ug/Kg	☼	04/24/12 14:08	04/26/12 00:59	1
<b>Benzo(a)pyrene</b>	<b>92</b>	<b>J</b>	190	4.6	ug/Kg	☼	04/24/12 14:08	04/26/12 00:59	1
<b>Benzo(b)fluoranthene</b>	<b>140</b>	<b>J</b>	190	3.7	ug/Kg	☼	04/24/12 14:08	04/26/12 00:59	1
<b>Benzo(g,h,i)perylene</b>	<b>66</b>	<b>J</b>	190	2.3	ug/Kg	☼	04/24/12 14:08	04/26/12 00:59	1
<b>Benzo(k)fluoranthene</b>	<b>63</b>	<b>J</b>	190	2.1	ug/Kg	☼	04/24/12 14:08	04/26/12 00:59	1
Bis(2-chloroethoxy)methane	ND		190	10	ug/Kg	☼	04/24/12 14:08	04/26/12 00:59	1
Bis(2-chloroethyl)ether	ND		190	16	ug/Kg	☼	04/24/12 14:08	04/26/12 00:59	1
Bis(2-ethylhexyl) phthalate	ND		190	61	ug/Kg	☼	04/24/12 14:08	04/26/12 00:59	1
Butyl benzyl phthalate	ND		190	51	ug/Kg	☼	04/24/12 14:08	04/26/12 00:59	1
Caprolactam	ND		190	82	ug/Kg	☼	04/24/12 14:08	04/26/12 00:59	1
Carbazole	ND		190	2.2	ug/Kg	☼	04/24/12 14:08	04/26/12 00:59	1
<b>Chrysene</b>	<b>120</b>	<b>J</b>	190	1.9	ug/Kg	☼	04/24/12 14:08	04/26/12 00:59	1
Di-n-butyl phthalate	ND		190	66	ug/Kg	☼	04/24/12 14:08	04/26/12 00:59	1
Di-n-octyl phthalate	ND		190	4.4	ug/Kg	☼	04/24/12 14:08	04/26/12 00:59	1
Dibenz(a,h)anthracene	ND		190	2.2	ug/Kg	☼	04/24/12 14:08	04/26/12 00:59	1
Dibenzofuran	ND		190	2.0	ug/Kg	☼	04/24/12 14:08	04/26/12 00:59	1
Diethyl phthalate	ND		190	5.7	ug/Kg	☼	04/24/12 14:08	04/26/12 00:59	1
Dimethyl phthalate	ND		190	4.9	ug/Kg	☼	04/24/12 14:08	04/26/12 00:59	1
<b>Fluoranthene</b>	<b>110</b>	<b>J</b>	190	2.7	ug/Kg	☼	04/24/12 14:08	04/26/12 00:59	1
Fluorene	ND		190	4.4	ug/Kg	☼	04/24/12 14:08	04/26/12 00:59	1

# Client Sample Results

Client: Turnkey Environmental Restoration, LLC  
 Project/Site: Turnkey - 600 River Rd site

TestAmerica Job ID: 480-18577-1

**Client Sample ID: EP-24 (0-4)**

**Lab Sample ID: 480-18577-2**

**Date Collected: 04/12/12 11:40**

**Matrix: Solid**

**Date Received: 04/13/12 09:00**

**Percent Solids: 88.3**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorobenzene	ND		190	9.4	ug/Kg	☼	04/24/12 14:08	04/26/12 00:59	1
Hexachlorobutadiene	ND		190	9.7	ug/Kg	☼	04/24/12 14:08	04/26/12 00:59	1
Hexachlorocyclopentadiene	ND		190	57	ug/Kg	☼	04/24/12 14:08	04/26/12 00:59	1
Hexachloroethane	ND		190	15	ug/Kg	☼	04/24/12 14:08	04/26/12 00:59	1
<b>Indeno(1,2,3-cd)pyrene</b>	<b>63</b>	<b>J</b>	190	5.2	ug/Kg	☼	04/24/12 14:08	04/26/12 00:59	1
Isophorone	ND		190	9.5	ug/Kg	☼	04/24/12 14:08	04/26/12 00:59	1
N-Nitrosodi-n-propylamine	ND		190	15	ug/Kg	☼	04/24/12 14:08	04/26/12 00:59	1
N-Nitrosodiphenylamine	ND		190	10	ug/Kg	☼	04/24/12 14:08	04/26/12 00:59	1
Naphthalene	ND		190	3.2	ug/Kg	☼	04/24/12 14:08	04/26/12 00:59	1
Nitrobenzene	ND		190	8.4	ug/Kg	☼	04/24/12 14:08	04/26/12 00:59	1
Pentachlorophenol	ND		370	65	ug/Kg	☼	04/24/12 14:08	04/26/12 00:59	1
<b>Phenanthrene</b>	<b>52</b>	<b>J</b>	190	4.0	ug/Kg	☼	04/24/12 14:08	04/26/12 00:59	1
Phenol	ND		190	20	ug/Kg	☼	04/24/12 14:08	04/26/12 00:59	1
<b>Pyrene</b>	<b>120</b>	<b>J</b>	190	1.2	ug/Kg	☼	04/24/12 14:08	04/26/12 00:59	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	95		39 - 146	04/24/12 14:08	04/26/12 00:59	1
2-Fluorobiphenyl	81		37 - 120	04/24/12 14:08	04/26/12 00:59	1
2-Fluorophenol	66		18 - 120	04/24/12 14:08	04/26/12 00:59	1
Nitrobenzene-d5	68		34 - 132	04/24/12 14:08	04/26/12 00:59	1
p-Terphenyl-d14	96		65 - 153	04/24/12 14:08	04/26/12 00:59	1
Phenol-d5	73		11 - 120	04/24/12 14:08	04/26/12 00:59	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		220	43	ug/Kg	☼	04/16/12 09:22	04/16/12 17:05	1
PCB-1221	ND		220	43	ug/Kg	☼	04/16/12 09:22	04/16/12 17:05	1
PCB-1232	ND		220	43	ug/Kg	☼	04/16/12 09:22	04/16/12 17:05	1
PCB-1242	ND		220	43	ug/Kg	☼	04/16/12 09:22	04/16/12 17:05	1
PCB-1248	ND		220	43	ug/Kg	☼	04/16/12 09:22	04/16/12 17:05	1
PCB-1254	ND		220	100	ug/Kg	☼	04/16/12 09:22	04/16/12 17:05	1
PCB-1260	ND		220	100	ug/Kg	☼	04/16/12 09:22	04/16/12 17:05	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	85		36 - 182	04/16/12 09:22	04/16/12 17:05	1
Tetrachloro-m-xylene	90		24 - 172	04/16/12 09:22	04/16/12 17:05	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Arsenic</b>	<b>7.0</b>		2.3		mg/Kg	☼	04/16/12 14:45	04/17/12 20:51	1
<b>Barium</b>	<b>82.8</b>		0.59		mg/Kg	☼	04/16/12 14:45	04/17/12 20:51	1
<b>Cadmium</b>	<b>0.70</b>		0.23		mg/Kg	☼	04/16/12 14:45	04/17/12 20:51	1
<b>Chromium</b>	<b>22.7</b>		0.59		mg/Kg	☼	04/16/12 14:45	04/17/12 20:51	1
<b>Lead</b>	<b>79.7</b>		1.2		mg/Kg	☼	04/16/12 14:45	04/17/12 20:51	1
Selenium	ND		4.7		mg/Kg	☼	04/16/12 14:45	04/17/12 20:51	1
Silver	ND		0.59		mg/Kg	☼	04/16/12 14:45	04/17/12 20:51	1

**Method: 7471A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>0.096</b>		0.020		mg/Kg	☼	04/17/12 09:30	04/17/12 13:49	1

# Client Sample Results

Client: Turnkey Environmental Restoration, LLC  
 Project/Site: Turnkey - 600 River Rd site

TestAmerica Job ID: 480-18577-1

**Client Sample ID: EP-27 (0-4)**

**Lab Sample ID: 480-18577-3**

**Date Collected: 04/13/12 13:24**

**Matrix: Solid**

**Date Received: 04/13/12 09:00**

**Percent Solids: 86.2**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Biphenyl	ND		190	12	ug/Kg	*	04/24/12 14:08	04/26/12 01:22	1
bis (2-chloroisopropyl) ether	ND		190	20	ug/Kg	*	04/24/12 14:08	04/26/12 01:22	1
2,4,5-Trichlorophenol	ND		190	42	ug/Kg	*	04/24/12 14:08	04/26/12 01:22	1
2,4,6-Trichlorophenol	ND		190	13	ug/Kg	*	04/24/12 14:08	04/26/12 01:22	1
2,4-Dichlorophenol	ND		190	10	ug/Kg	*	04/24/12 14:08	04/26/12 01:22	1
2,4-Dimethylphenol	ND		190	52	ug/Kg	*	04/24/12 14:08	04/26/12 01:22	1
2,4-Dinitrophenol	ND		380	67	ug/Kg	*	04/24/12 14:08	04/26/12 01:22	1
2,4-Dinitrotoluene	ND		190	30	ug/Kg	*	04/24/12 14:08	04/26/12 01:22	1
2,6-Dinitrotoluene	ND		190	47	ug/Kg	*	04/24/12 14:08	04/26/12 01:22	1
2-Chloronaphthalene	ND		190	13	ug/Kg	*	04/24/12 14:08	04/26/12 01:22	1
2-Chlorophenol	ND		190	9.8	ug/Kg	*	04/24/12 14:08	04/26/12 01:22	1
<b>2-Methylnaphthalene</b>	<b>74</b>	<b>J</b>	190	2.3	ug/Kg	*	04/24/12 14:08	04/26/12 01:22	1
2-Methylphenol	ND		190	5.9	ug/Kg	*	04/24/12 14:08	04/26/12 01:22	1
2-Nitroaniline	ND		380	62	ug/Kg	*	04/24/12 14:08	04/26/12 01:22	1
2-Nitrophenol	ND		190	8.8	ug/Kg	*	04/24/12 14:08	04/26/12 01:22	1
3,3'-Dichlorobenzidine	ND		190	170	ug/Kg	*	04/24/12 14:08	04/26/12 01:22	1
3-Nitroaniline	ND		380	44	ug/Kg	*	04/24/12 14:08	04/26/12 01:22	1
4,6-Dinitro-2-methylphenol	ND		380	67	ug/Kg	*	04/24/12 14:08	04/26/12 01:22	1
4-Bromophenyl phenyl ether	ND		190	61	ug/Kg	*	04/24/12 14:08	04/26/12 01:22	1
4-Chloro-3-methylphenol	ND		190	7.9	ug/Kg	*	04/24/12 14:08	04/26/12 01:22	1
4-Chloroaniline	ND		190	57	ug/Kg	*	04/24/12 14:08	04/26/12 01:22	1
4-Chlorophenyl phenyl ether	ND		190	4.1	ug/Kg	*	04/24/12 14:08	04/26/12 01:22	1
4-Methylphenol	ND		380	11	ug/Kg	*	04/24/12 14:08	04/26/12 01:22	1
4-Nitroaniline	ND		380	22	ug/Kg	*	04/24/12 14:08	04/26/12 01:22	1
4-Nitrophenol	ND		380	47	ug/Kg	*	04/24/12 14:08	04/26/12 01:22	1
Acenaphthene	ND		190	2.3	ug/Kg	*	04/24/12 14:08	04/26/12 01:22	1
<b>Acenaphthylene</b>	<b>120</b>	<b>J</b>	190	1.6	ug/Kg	*	04/24/12 14:08	04/26/12 01:22	1
Acetophenone	ND		190	9.9	ug/Kg	*	04/24/12 14:08	04/26/12 01:22	1
<b>Anthracene</b>	<b>66</b>	<b>J</b>	190	4.9	ug/Kg	*	04/24/12 14:08	04/26/12 01:22	1
Atrazine	ND		190	8.6	ug/Kg	*	04/24/12 14:08	04/26/12 01:22	1
Benzaldehyde	ND		190	21	ug/Kg	*	04/24/12 14:08	04/26/12 01:22	1
<b>Benzo(a)anthracene</b>	<b>760</b>		190	3.3	ug/Kg	*	04/24/12 14:08	04/26/12 01:22	1
<b>Benzo(a)pyrene</b>	<b>680</b>		190	4.6	ug/Kg	*	04/24/12 14:08	04/26/12 01:22	1
<b>Benzo(b)fluoranthene</b>	<b>1100</b>		190	3.7	ug/Kg	*	04/24/12 14:08	04/26/12 01:22	1
<b>Benzo(g,h,i)perylene</b>	<b>340</b>		190	2.3	ug/Kg	*	04/24/12 14:08	04/26/12 01:22	1
<b>Benzo(k)fluoranthene</b>	<b>120</b>	<b>J</b>	190	2.1	ug/Kg	*	04/24/12 14:08	04/26/12 01:22	1
Bis(2-chloroethoxy)methane	ND		190	10	ug/Kg	*	04/24/12 14:08	04/26/12 01:22	1
Bis(2-chloroethyl)ether	ND		190	17	ug/Kg	*	04/24/12 14:08	04/26/12 01:22	1
Bis(2-ethylhexyl) phthalate	ND		190	62	ug/Kg	*	04/24/12 14:08	04/26/12 01:22	1
Butyl benzyl phthalate	ND		190	52	ug/Kg	*	04/24/12 14:08	04/26/12 01:22	1
Caprolactam	ND		190	83	ug/Kg	*	04/24/12 14:08	04/26/12 01:22	1
Carbazole	ND		190	2.2	ug/Kg	*	04/24/12 14:08	04/26/12 01:22	1
<b>Chrysene</b>	<b>750</b>		190	1.9	ug/Kg	*	04/24/12 14:08	04/26/12 01:22	1
Di-n-butyl phthalate	ND		190	67	ug/Kg	*	04/24/12 14:08	04/26/12 01:22	1
Di-n-octyl phthalate	ND		190	4.5	ug/Kg	*	04/24/12 14:08	04/26/12 01:22	1
<b>Dibenz(a,h)anthracene</b>	<b>72</b>	<b>J</b>	190	2.3	ug/Kg	*	04/24/12 14:08	04/26/12 01:22	1
Dibenzofuran	ND		190	2.0	ug/Kg	*	04/24/12 14:08	04/26/12 01:22	1
Diethyl phthalate	ND		190	5.8	ug/Kg	*	04/24/12 14:08	04/26/12 01:22	1
Dimethyl phthalate	ND		190	5.0	ug/Kg	*	04/24/12 14:08	04/26/12 01:22	1
<b>Fluoranthene</b>	<b>1500</b>		190	2.8	ug/Kg	*	04/24/12 14:08	04/26/12 01:22	1
Fluorene	ND		190	4.4	ug/Kg	*	04/24/12 14:08	04/26/12 01:22	1

# Client Sample Results

Client: Turnkey Environmental Restoration, LLC  
 Project/Site: Turnkey - 600 River Rd site

TestAmerica Job ID: 480-18577-1

**Client Sample ID: EP-27 (0-4)**

**Lab Sample ID: 480-18577-3**

**Date Collected: 04/13/12 13:24**

**Matrix: Solid**

**Date Received: 04/13/12 09:00**

**Percent Solids: 86.2**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorobenzene	ND		190	9.6	ug/Kg	☼	04/24/12 14:08	04/26/12 01:22	1
Hexachlorobutadiene	ND		190	9.9	ug/Kg	☼	04/24/12 14:08	04/26/12 01:22	1
Hexachlorocyclopentadiene	ND		190	58	ug/Kg	☼	04/24/12 14:08	04/26/12 01:22	1
Hexachloroethane	ND		190	15	ug/Kg	☼	04/24/12 14:08	04/26/12 01:22	1
<b>Indeno(1,2,3-cd)pyrene</b>	<b>350</b>		190	5.3	ug/Kg	☼	04/24/12 14:08	04/26/12 01:22	1
Isophorone	ND		190	9.6	ug/Kg	☼	04/24/12 14:08	04/26/12 01:22	1
N-Nitrosodi-n-propylamine	ND		190	15	ug/Kg	☼	04/24/12 14:08	04/26/12 01:22	1
N-Nitrosodiphenylamine	ND		190	11	ug/Kg	☼	04/24/12 14:08	04/26/12 01:22	1
<b>Naphthalene</b>	<b>61</b>	<b>J</b>	190	3.2	ug/Kg	☼	04/24/12 14:08	04/26/12 01:22	1
Nitrobenzene	ND		190	8.5	ug/Kg	☼	04/24/12 14:08	04/26/12 01:22	1
Pentachlorophenol	ND		380	66	ug/Kg	☼	04/24/12 14:08	04/26/12 01:22	1
<b>Phenanthrene</b>	<b>170</b>	<b>J</b>	190	4.0	ug/Kg	☼	04/24/12 14:08	04/26/12 01:22	1
Phenol	ND		190	20	ug/Kg	☼	04/24/12 14:08	04/26/12 01:22	1
<b>Pyrene</b>	<b>1600</b>		190	1.2	ug/Kg	☼	04/24/12 14:08	04/26/12 01:22	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	100		39 - 146	04/24/12 14:08	04/26/12 01:22	1
2-Fluorobiphenyl	81		37 - 120	04/24/12 14:08	04/26/12 01:22	1
2-Fluorophenol	60		18 - 120	04/24/12 14:08	04/26/12 01:22	1
Nitrobenzene-d5	68		34 - 132	04/24/12 14:08	04/26/12 01:22	1
p-Terphenyl-d14	100		65 - 153	04/24/12 14:08	04/26/12 01:22	1
Phenol-d5	67		11 - 120	04/24/12 14:08	04/26/12 01:22	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		230	45	ug/Kg	☼	04/16/12 09:22	04/16/12 17:20	1
PCB-1221	ND		230	45	ug/Kg	☼	04/16/12 09:22	04/16/12 17:20	1
PCB-1232	ND		230	45	ug/Kg	☼	04/16/12 09:22	04/16/12 17:20	1
PCB-1242	ND		230	45	ug/Kg	☼	04/16/12 09:22	04/16/12 17:20	1
PCB-1248	ND		230	45	ug/Kg	☼	04/16/12 09:22	04/16/12 17:20	1
PCB-1254	ND		230	110	ug/Kg	☼	04/16/12 09:22	04/16/12 17:20	1
PCB-1260	ND		230	110	ug/Kg	☼	04/16/12 09:22	04/16/12 17:20	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	146		36 - 182	04/16/12 09:22	04/16/12 17:20	1
Tetrachloro-m-xylene	118		24 - 172	04/16/12 09:22	04/16/12 17:20	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Arsenic</b>	<b>10.2</b>		2.1		mg/Kg	☼	04/16/12 14:45	04/17/12 20:54	1
<b>Barium</b>	<b>171</b>		0.54		mg/Kg	☼	04/16/12 14:45	04/17/12 20:54	1
<b>Cadmium</b>	<b>1.2</b>		0.21		mg/Kg	☼	04/16/12 14:45	04/17/12 20:54	1
<b>Chromium</b>	<b>19.4</b>		0.54		mg/Kg	☼	04/16/12 14:45	04/17/12 20:54	1
<b>Lead</b>	<b>163</b>		1.1		mg/Kg	☼	04/16/12 14:45	04/17/12 20:54	1
Selenium	ND		4.3		mg/Kg	☼	04/16/12 14:45	04/17/12 20:54	1
Silver	ND		0.54		mg/Kg	☼	04/16/12 14:45	04/17/12 20:54	1

**Method: 7471A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>0.089</b>		0.023		mg/Kg	☼	04/17/12 09:30	04/17/12 13:50	1



# Client Sample Results

Client: Turnkey Environmental Restoration, LLC  
 Project/Site: Turnkey - 600 River Rd site

TestAmerica Job ID: 480-18577-1

**Client Sample ID: EP-22 (0-4)**

**Lab Sample ID: 480-18577-4**

**Date Collected: 04/13/12 13:11**

**Matrix: Solid**

**Date Received: 04/13/12 09:00**

**Percent Solids: 83.2**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Biphenyl	ND		200	13	ug/Kg	☼	04/24/12 14:08	04/26/12 01:46	1
bis (2-chloroisopropyl) ether	ND		200	21	ug/Kg	☼	04/24/12 14:08	04/26/12 01:46	1
2,4,5-Trichlorophenol	ND		200	44	ug/Kg	☼	04/24/12 14:08	04/26/12 01:46	1
2,4,6-Trichlorophenol	ND		200	13	ug/Kg	☼	04/24/12 14:08	04/26/12 01:46	1
2,4-Dichlorophenol	ND		200	11	ug/Kg	☼	04/24/12 14:08	04/26/12 01:46	1
2,4-Dimethylphenol	ND		200	54	ug/Kg	☼	04/24/12 14:08	04/26/12 01:46	1
2,4-Dinitrophenol	ND		390	71	ug/Kg	☼	04/24/12 14:08	04/26/12 01:46	1
2,4-Dinitrotoluene	ND		200	31	ug/Kg	☼	04/24/12 14:08	04/26/12 01:46	1
2,6-Dinitrotoluene	ND		200	49	ug/Kg	☼	04/24/12 14:08	04/26/12 01:46	1
2-Chloronaphthalene	ND		200	14	ug/Kg	☼	04/24/12 14:08	04/26/12 01:46	1
2-Chlorophenol	ND		200	10	ug/Kg	☼	04/24/12 14:08	04/26/12 01:46	1
<b>2-Methylnaphthalene</b>	<b>23</b>	<b>J</b>	200	2.4	ug/Kg	☼	04/24/12 14:08	04/26/12 01:46	1
2-Methylphenol	ND		200	6.2	ug/Kg	☼	04/24/12 14:08	04/26/12 01:46	1
2-Nitroaniline	ND		390	65	ug/Kg	☼	04/24/12 14:08	04/26/12 01:46	1
2-Nitrophenol	ND		200	9.2	ug/Kg	☼	04/24/12 14:08	04/26/12 01:46	1
3,3'-Dichlorobenzidine	ND		200	180	ug/Kg	☼	04/24/12 14:08	04/26/12 01:46	1
3-Nitroaniline	ND		390	46	ug/Kg	☼	04/24/12 14:08	04/26/12 01:46	1
4,6-Dinitro-2-methylphenol	ND		390	70	ug/Kg	☼	04/24/12 14:08	04/26/12 01:46	1
4-Bromophenyl phenyl ether	ND		200	64	ug/Kg	☼	04/24/12 14:08	04/26/12 01:46	1
4-Chloro-3-methylphenol	ND		200	8.3	ug/Kg	☼	04/24/12 14:08	04/26/12 01:46	1
4-Chloroaniline	ND		200	59	ug/Kg	☼	04/24/12 14:08	04/26/12 01:46	1
4-Chlorophenyl phenyl ether	ND		200	4.3	ug/Kg	☼	04/24/12 14:08	04/26/12 01:46	1
4-Methylphenol	ND		390	11	ug/Kg	☼	04/24/12 14:08	04/26/12 01:46	1
4-Nitroaniline	ND		390	23	ug/Kg	☼	04/24/12 14:08	04/26/12 01:46	1
4-Nitrophenol	ND		390	49	ug/Kg	☼	04/24/12 14:08	04/26/12 01:46	1
<b>Acenaphthene</b>	<b>14</b>	<b>J</b>	200	2.4	ug/Kg	☼	04/24/12 14:08	04/26/12 01:46	1
Acenaphthylene	ND		200	1.6	ug/Kg	☼	04/24/12 14:08	04/26/12 01:46	1
Acetophenone	ND		200	10	ug/Kg	☼	04/24/12 14:08	04/26/12 01:46	1
<b>Anthracene</b>	<b>39</b>	<b>J</b>	200	5.2	ug/Kg	☼	04/24/12 14:08	04/26/12 01:46	1
Atrazine	ND		200	9.0	ug/Kg	☼	04/24/12 14:08	04/26/12 01:46	1
Benzaldehyde	ND		200	22	ug/Kg	☼	04/24/12 14:08	04/26/12 01:46	1
<b>Benzo(a)anthracene</b>	<b>180</b>	<b>J</b>	200	3.5	ug/Kg	☼	04/24/12 14:08	04/26/12 01:46	1
<b>Benzo(a)pyrene</b>	<b>130</b>	<b>J</b>	200	4.9	ug/Kg	☼	04/24/12 14:08	04/26/12 01:46	1
<b>Benzo(b)fluoranthene</b>	<b>240</b>		200	3.9	ug/Kg	☼	04/24/12 14:08	04/26/12 01:46	1
<b>Benzo(g,h,i)perylene</b>	<b>89</b>	<b>J</b>	200	2.4	ug/Kg	☼	04/24/12 14:08	04/26/12 01:46	1
<b>Benzo(k)fluoranthene</b>	<b>71</b>	<b>J</b>	200	2.2	ug/Kg	☼	04/24/12 14:08	04/26/12 01:46	1
Bis(2-chloroethoxy)methane	ND		200	11	ug/Kg	☼	04/24/12 14:08	04/26/12 01:46	1
Bis(2-chloroethyl)ether	ND		200	17	ug/Kg	☼	04/24/12 14:08	04/26/12 01:46	1
Bis(2-ethylhexyl) phthalate	ND		200	65	ug/Kg	☼	04/24/12 14:08	04/26/12 01:46	1
Butyl benzyl phthalate	ND		200	54	ug/Kg	☼	04/24/12 14:08	04/26/12 01:46	1
Caprolactam	ND		200	87	ug/Kg	☼	04/24/12 14:08	04/26/12 01:46	1
<b>Carbazole</b>	<b>24</b>	<b>J</b>	200	2.3	ug/Kg	☼	04/24/12 14:08	04/26/12 01:46	1
<b>Chrysene</b>	<b>200</b>		200	2.0	ug/Kg	☼	04/24/12 14:08	04/26/12 01:46	1
Di-n-butyl phthalate	ND		200	70	ug/Kg	☼	04/24/12 14:08	04/26/12 01:46	1
Di-n-octyl phthalate	ND		200	4.7	ug/Kg	☼	04/24/12 14:08	04/26/12 01:46	1
<b>Dibenz(a,h)anthracene</b>	<b>20</b>	<b>J</b>	200	2.4	ug/Kg	☼	04/24/12 14:08	04/26/12 01:46	1
<b>Dibenzofuran</b>	<b>12</b>	<b>J</b>	200	2.1	ug/Kg	☼	04/24/12 14:08	04/26/12 01:46	1
Diethyl phthalate	ND		200	6.1	ug/Kg	☼	04/24/12 14:08	04/26/12 01:46	1
Dimethyl phthalate	ND		200	5.3	ug/Kg	☼	04/24/12 14:08	04/26/12 01:46	1
<b>Fluoranthene</b>	<b>300</b>		200	2.9	ug/Kg	☼	04/24/12 14:08	04/26/12 01:46	1
Fluorene	ND		200	4.6	ug/Kg	☼	04/24/12 14:08	04/26/12 01:46	1



# Client Sample Results

Client: Turnkey Environmental Restoration, LLC  
 Project/Site: Turnkey - 600 River Rd site

TestAmerica Job ID: 480-18577-1

**Client Sample ID: EP-22 (0-4)**

**Lab Sample ID: 480-18577-4**

**Date Collected: 04/13/12 13:11**

**Matrix: Solid**

**Date Received: 04/13/12 09:00**

**Percent Solids: 83.2**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorobenzene	ND		200	10	ug/Kg	☼	04/24/12 14:08	04/26/12 01:46	1
Hexachlorobutadiene	ND		200	10	ug/Kg	☼	04/24/12 14:08	04/26/12 01:46	1
Hexachlorocyclopentadiene	ND		200	61	ug/Kg	☼	04/24/12 14:08	04/26/12 01:46	1
Hexachloroethane	ND		200	16	ug/Kg	☼	04/24/12 14:08	04/26/12 01:46	1
<b>Indeno(1,2,3-cd)pyrene</b>	<b>88</b>	<b>J</b>	200	5.6	ug/Kg	☼	04/24/12 14:08	04/26/12 01:46	1
Isophorone	ND		200	10	ug/Kg	☼	04/24/12 14:08	04/26/12 01:46	1
N-Nitrosodi-n-propylamine	ND		200	16	ug/Kg	☼	04/24/12 14:08	04/26/12 01:46	1
N-Nitrosodiphenylamine	ND		200	11	ug/Kg	☼	04/24/12 14:08	04/26/12 01:46	1
Naphthalene	ND		200	3.4	ug/Kg	☼	04/24/12 14:08	04/26/12 01:46	1
Nitrobenzene	ND		200	8.9	ug/Kg	☼	04/24/12 14:08	04/26/12 01:46	1
Pentachlorophenol	ND		390	69	ug/Kg	☼	04/24/12 14:08	04/26/12 01:46	1
<b>Phenanthrene</b>	<b>190</b>	<b>J</b>	200	4.2	ug/Kg	☼	04/24/12 14:08	04/26/12 01:46	1
Phenol	ND		200	21	ug/Kg	☼	04/24/12 14:08	04/26/12 01:46	1
<b>Pyrene</b>	<b>300</b>		200	1.3	ug/Kg	☼	04/24/12 14:08	04/26/12 01:46	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	98		39 - 146	04/24/12 14:08	04/26/12 01:46	1
2-Fluorobiphenyl	76		37 - 120	04/24/12 14:08	04/26/12 01:46	1
2-Fluorophenol	59		18 - 120	04/24/12 14:08	04/26/12 01:46	1
Nitrobenzene-d5	64		34 - 132	04/24/12 14:08	04/26/12 01:46	1
p-Terphenyl-d14	94		65 - 153	04/24/12 14:08	04/26/12 01:46	1
Phenol-d5	65		11 - 120	04/24/12 14:08	04/26/12 01:46	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		210	41	ug/Kg	☼	04/16/12 09:22	04/16/12 18:04	1
PCB-1221	ND		210	41	ug/Kg	☼	04/16/12 09:22	04/16/12 18:04	1
PCB-1232	ND		210	41	ug/Kg	☼	04/16/12 09:22	04/16/12 18:04	1
PCB-1242	ND		210	41	ug/Kg	☼	04/16/12 09:22	04/16/12 18:04	1
PCB-1248	ND		210	41	ug/Kg	☼	04/16/12 09:22	04/16/12 18:04	1
PCB-1254	ND		210	97	ug/Kg	☼	04/16/12 09:22	04/16/12 18:04	1
PCB-1260	ND		210	97	ug/Kg	☼	04/16/12 09:22	04/16/12 18:04	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	113		36 - 182	04/16/12 09:22	04/16/12 18:04	1
Tetrachloro-m-xylene	121		24 - 172	04/16/12 09:22	04/16/12 18:04	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Arsenic</b>	<b>16.2</b>		2.2		mg/Kg	☼	04/16/12 14:45	04/17/12 21:05	1
<b>Barium</b>	<b>148</b>		0.56		mg/Kg	☼	04/16/12 14:45	04/17/12 21:05	1
<b>Cadmium</b>	<b>1.5</b>		0.22		mg/Kg	☼	04/16/12 14:45	04/17/12 21:05	1
<b>Chromium</b>	<b>17.5</b>		0.56		mg/Kg	☼	04/16/12 14:45	04/17/12 21:05	1
<b>Lead</b>	<b>167</b>		1.1		mg/Kg	☼	04/16/12 14:45	04/17/12 21:05	1
Selenium	ND		4.5		mg/Kg	☼	04/16/12 14:45	04/17/12 21:05	1
Silver	ND		0.56		mg/Kg	☼	04/16/12 14:45	04/17/12 21:05	1

**Method: 7471A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>0.10</b>		0.023		mg/Kg	☼	04/17/12 09:30	04/17/12 13:51	1

# Client Sample Results

Client: Turnkey Environmental Restoration, LLC  
 Project/Site: Turnkey - 600 River Rd site

TestAmerica Job ID: 480-18577-1

**Client Sample ID: EP-26 (0-4)**

**Lab Sample ID: 480-18577-5**

**Date Collected: 04/13/12 13:30**

**Matrix: Solid**

**Date Received: 04/13/12 09:00**

**Percent Solids: 83.7**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Biphenyl	ND		200	13	ug/Kg	☼	04/24/12 14:08	04/26/12 02:10	1
bis (2-chloroisopropyl) ether	ND		200	21	ug/Kg	☼	04/24/12 14:08	04/26/12 02:10	1
2,4,5-Trichlorophenol	ND		200	44	ug/Kg	☼	04/24/12 14:08	04/26/12 02:10	1
2,4,6-Trichlorophenol	ND		200	13	ug/Kg	☼	04/24/12 14:08	04/26/12 02:10	1
2,4-Dichlorophenol	ND		200	11	ug/Kg	☼	04/24/12 14:08	04/26/12 02:10	1
2,4-Dimethylphenol	ND		200	54	ug/Kg	☼	04/24/12 14:08	04/26/12 02:10	1
2,4-Dinitrophenol	ND		390	70	ug/Kg	☼	04/24/12 14:08	04/26/12 02:10	1
2,4-Dinitrotoluene	ND		200	31	ug/Kg	☼	04/24/12 14:08	04/26/12 02:10	1
2,6-Dinitrotoluene	ND		200	49	ug/Kg	☼	04/24/12 14:08	04/26/12 02:10	1
2-Chloronaphthalene	ND		200	14	ug/Kg	☼	04/24/12 14:08	04/26/12 02:10	1
2-Chlorophenol	ND		200	10	ug/Kg	☼	04/24/12 14:08	04/26/12 02:10	1
<b>2-Methylnaphthalene</b>	<b>24</b>	<b>J</b>	200	2.4	ug/Kg	☼	04/24/12 14:08	04/26/12 02:10	1
2-Methylphenol	ND		200	6.2	ug/Kg	☼	04/24/12 14:08	04/26/12 02:10	1
2-Nitroaniline	ND		390	65	ug/Kg	☼	04/24/12 14:08	04/26/12 02:10	1
2-Nitrophenol	ND		200	9.2	ug/Kg	☼	04/24/12 14:08	04/26/12 02:10	1
3,3'-Dichlorobenzidine	ND		200	180	ug/Kg	☼	04/24/12 14:08	04/26/12 02:10	1
3-Nitroaniline	ND		390	46	ug/Kg	☼	04/24/12 14:08	04/26/12 02:10	1
4,6-Dinitro-2-methylphenol	ND		390	70	ug/Kg	☼	04/24/12 14:08	04/26/12 02:10	1
4-Bromophenyl phenyl ether	ND		200	64	ug/Kg	☼	04/24/12 14:08	04/26/12 02:10	1
4-Chloro-3-methylphenol	ND		200	8.3	ug/Kg	☼	04/24/12 14:08	04/26/12 02:10	1
4-Chloroaniline	ND		200	59	ug/Kg	☼	04/24/12 14:08	04/26/12 02:10	1
4-Chlorophenyl phenyl ether	ND		200	4.3	ug/Kg	☼	04/24/12 14:08	04/26/12 02:10	1
4-Methylphenol	ND		390	11	ug/Kg	☼	04/24/12 14:08	04/26/12 02:10	1
4-Nitroaniline	ND		390	22	ug/Kg	☼	04/24/12 14:08	04/26/12 02:10	1
4-Nitrophenol	ND		390	49	ug/Kg	☼	04/24/12 14:08	04/26/12 02:10	1
<b>Acenaphthene</b>	<b>10</b>	<b>J</b>	200	2.4	ug/Kg	☼	04/24/12 14:08	04/26/12 02:10	1
<b>Acenaphthylene</b>	<b>15</b>	<b>J</b>	200	1.6	ug/Kg	☼	04/24/12 14:08	04/26/12 02:10	1
Acetophenone	ND		200	10	ug/Kg	☼	04/24/12 14:08	04/26/12 02:10	1
<b>Anthracene</b>	<b>43</b>	<b>J</b>	200	5.2	ug/Kg	☼	04/24/12 14:08	04/26/12 02:10	1
Atrazine	ND		200	9.0	ug/Kg	☼	04/24/12 14:08	04/26/12 02:10	1
Benzaldehyde	ND		200	22	ug/Kg	☼	04/24/12 14:08	04/26/12 02:10	1
<b>Benzo(a)anthracene</b>	<b>180</b>	<b>J</b>	200	3.5	ug/Kg	☼	04/24/12 14:08	04/26/12 02:10	1
<b>Benzo(a)pyrene</b>	<b>180</b>	<b>J</b>	200	4.9	ug/Kg	☼	04/24/12 14:08	04/26/12 02:10	1
<b>Benzo(b)fluoranthene</b>	<b>220</b>		200	3.9	ug/Kg	☼	04/24/12 14:08	04/26/12 02:10	1
<b>Benzo(g,h,i)perylene</b>	<b>81</b>	<b>J</b>	200	2.4	ug/Kg	☼	04/24/12 14:08	04/26/12 02:10	1
<b>Benzo(k)fluoranthene</b>	<b>100</b>	<b>J</b>	200	2.2	ug/Kg	☼	04/24/12 14:08	04/26/12 02:10	1
Bis(2-chloroethoxy)methane	ND		200	11	ug/Kg	☼	04/24/12 14:08	04/26/12 02:10	1
Bis(2-chloroethyl)ether	ND		200	17	ug/Kg	☼	04/24/12 14:08	04/26/12 02:10	1
Bis(2-ethylhexyl) phthalate	ND		200	65	ug/Kg	☼	04/24/12 14:08	04/26/12 02:10	1
Butyl benzyl phthalate	ND		200	54	ug/Kg	☼	04/24/12 14:08	04/26/12 02:10	1
Caprolactam	ND		200	87	ug/Kg	☼	04/24/12 14:08	04/26/12 02:10	1
<b>Carbazole</b>	<b>19</b>	<b>J</b>	200	2.3	ug/Kg	☼	04/24/12 14:08	04/26/12 02:10	1
<b>Chrysene</b>	<b>180</b>	<b>J</b>	200	2.0	ug/Kg	☼	04/24/12 14:08	04/26/12 02:10	1
Di-n-butyl phthalate	ND		200	70	ug/Kg	☼	04/24/12 14:08	04/26/12 02:10	1
Di-n-octyl phthalate	ND		200	4.7	ug/Kg	☼	04/24/12 14:08	04/26/12 02:10	1
Dibenz(a,h)anthracene	ND		200	2.4	ug/Kg	☼	04/24/12 14:08	04/26/12 02:10	1
Dibenzofuran	ND		200	2.1	ug/Kg	☼	04/24/12 14:08	04/26/12 02:10	1
Diethyl phthalate	ND		200	6.1	ug/Kg	☼	04/24/12 14:08	04/26/12 02:10	1
Dimethyl phthalate	ND		200	5.3	ug/Kg	☼	04/24/12 14:08	04/26/12 02:10	1
<b>Fluoranthene</b>	<b>340</b>		200	2.9	ug/Kg	☼	04/24/12 14:08	04/26/12 02:10	1
Fluorene	ND		200	4.6	ug/Kg	☼	04/24/12 14:08	04/26/12 02:10	1

# Client Sample Results

Client: Turnkey Environmental Restoration, LLC  
 Project/Site: Turnkey - 600 River Rd site

TestAmerica Job ID: 480-18577-1

**Client Sample ID: EP-26 (0-4)**

**Lab Sample ID: 480-18577-5**

**Date Collected: 04/13/12 13:30**

**Matrix: Solid**

**Date Received: 04/13/12 09:00**

**Percent Solids: 83.7**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorobenzene	ND		200	10	ug/Kg	☼	04/24/12 14:08	04/26/12 02:10	1
Hexachlorobutadiene	ND		200	10	ug/Kg	☼	04/24/12 14:08	04/26/12 02:10	1
Hexachlorocyclopentadiene	ND		200	61	ug/Kg	☼	04/24/12 14:08	04/26/12 02:10	1
Hexachloroethane	ND		200	16	ug/Kg	☼	04/24/12 14:08	04/26/12 02:10	1
<b>Indeno(1,2,3-cd)pyrene</b>	<b>83</b>	<b>J</b>	200	5.6	ug/Kg	☼	04/24/12 14:08	04/26/12 02:10	1
Isophorone	ND		200	10	ug/Kg	☼	04/24/12 14:08	04/26/12 02:10	1
N-Nitrosodi-n-propylamine	ND		200	16	ug/Kg	☼	04/24/12 14:08	04/26/12 02:10	1
N-Nitrosodiphenylamine	ND		200	11	ug/Kg	☼	04/24/12 14:08	04/26/12 02:10	1
Naphthalene	ND		200	3.3	ug/Kg	☼	04/24/12 14:08	04/26/12 02:10	1
Nitrobenzene	ND		200	8.9	ug/Kg	☼	04/24/12 14:08	04/26/12 02:10	1
Pentachlorophenol	ND		390	69	ug/Kg	☼	04/24/12 14:08	04/26/12 02:10	1
<b>Phenanthrene</b>	<b>160</b>	<b>J</b>	200	4.2	ug/Kg	☼	04/24/12 14:08	04/26/12 02:10	1
Phenol	ND		200	21	ug/Kg	☼	04/24/12 14:08	04/26/12 02:10	1
<b>Pyrene</b>	<b>300</b>		200	1.3	ug/Kg	☼	04/24/12 14:08	04/26/12 02:10	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	92		39 - 146	04/24/12 14:08	04/26/12 02:10	1
2-Fluorobiphenyl	78		37 - 120	04/24/12 14:08	04/26/12 02:10	1
2-Fluorophenol	66		18 - 120	04/24/12 14:08	04/26/12 02:10	1
Nitrobenzene-d5	69		34 - 132	04/24/12 14:08	04/26/12 02:10	1
p-Terphenyl-d14	92		65 - 153	04/24/12 14:08	04/26/12 02:10	1
Phenol-d5	69		11 - 120	04/24/12 14:08	04/26/12 02:10	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		210	40	ug/Kg	☼	04/16/12 09:22	04/16/12 18:49	1
PCB-1221	ND		210	40	ug/Kg	☼	04/16/12 09:22	04/16/12 18:49	1
PCB-1232	ND		210	40	ug/Kg	☼	04/16/12 09:22	04/16/12 18:49	1
PCB-1242	ND		210	40	ug/Kg	☼	04/16/12 09:22	04/16/12 18:49	1
PCB-1248	ND		210	40	ug/Kg	☼	04/16/12 09:22	04/16/12 18:49	1
PCB-1254	ND		210	96	ug/Kg	☼	04/16/12 09:22	04/16/12 18:49	1
PCB-1260	ND		210	96	ug/Kg	☼	04/16/12 09:22	04/16/12 18:49	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	112		36 - 182	04/16/12 09:22	04/16/12 18:49	1
Tetrachloro-m-xylene	110		24 - 172	04/16/12 09:22	04/16/12 18:49	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Arsenic</b>	<b>7.0</b>		2.4		mg/Kg	☼	04/16/12 14:45	04/17/12 21:08	1
<b>Barium</b>	<b>243</b>		0.60		mg/Kg	☼	04/16/12 14:45	04/17/12 21:08	1
<b>Cadmium</b>	<b>0.36</b>		0.24		mg/Kg	☼	04/16/12 14:45	04/17/12 21:08	1
<b>Chromium</b>	<b>18.8</b>		0.60		mg/Kg	☼	04/16/12 14:45	04/17/12 21:08	1
<b>Lead</b>	<b>55.6</b>		1.2		mg/Kg	☼	04/16/12 14:45	04/17/12 21:08	1
Selenium	ND		4.8		mg/Kg	☼	04/16/12 14:45	04/17/12 21:08	1
Silver	ND		0.60		mg/Kg	☼	04/16/12 14:45	04/17/12 21:08	1

**Method: 7471A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>0.031</b>		0.024		mg/Kg	☼	04/17/12 09:30	04/17/12 13:52	1

# Client Sample Results

Client: Turnkey Environmental Restoration, LLC  
 Project/Site: Turnkey - 600 River Rd site

TestAmerica Job ID: 480-18577-1

**Client Sample ID: EP-21 (3-7)**

**Lab Sample ID: 480-18577-6**

**Date Collected: 04/12/12 12:10**

**Matrix: Solid**

**Date Received: 04/13/12 09:00**

**Percent Solids: 76.2**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Biphenyl</b>	<b>35</b>	<b>J</b>	220	14	ug/Kg	☼	04/24/12 14:08	04/26/12 02:33	1
bis (2-chloroisopropyl) ether	ND		220	23	ug/Kg	☼	04/24/12 14:08	04/26/12 02:33	1
2,4,5-Trichlorophenol	ND		220	48	ug/Kg	☼	04/24/12 14:08	04/26/12 02:33	1
2,4,6-Trichlorophenol	ND		220	14	ug/Kg	☼	04/24/12 14:08	04/26/12 02:33	1
2,4-Dichlorophenol	ND		220	11	ug/Kg	☼	04/24/12 14:08	04/26/12 02:33	1
2,4-Dimethylphenol	ND		220	59	ug/Kg	☼	04/24/12 14:08	04/26/12 02:33	1
2,4-Dinitrophenol	ND		430	77	ug/Kg	☼	04/24/12 14:08	04/26/12 02:33	1
2,4-Dinitrotoluene	ND		220	34	ug/Kg	☼	04/24/12 14:08	04/26/12 02:33	1
2,6-Dinitrotoluene	ND		220	54	ug/Kg	☼	04/24/12 14:08	04/26/12 02:33	1
2-Chloronaphthalene	ND		220	15	ug/Kg	☼	04/24/12 14:08	04/26/12 02:33	1
2-Chlorophenol	ND		220	11	ug/Kg	☼	04/24/12 14:08	04/26/12 02:33	1
<b>2-Methylnaphthalene</b>	<b>280</b>		220	2.7	ug/Kg	☼	04/24/12 14:08	04/26/12 02:33	1
2-Methylphenol	ND		220	6.7	ug/Kg	☼	04/24/12 14:08	04/26/12 02:33	1
2-Nitroaniline	ND		430	70	ug/Kg	☼	04/24/12 14:08	04/26/12 02:33	1
2-Nitrophenol	ND		220	10	ug/Kg	☼	04/24/12 14:08	04/26/12 02:33	1
3,3'-Dichlorobenzidine	ND		220	190	ug/Kg	☼	04/24/12 14:08	04/26/12 02:33	1
3-Nitroaniline	ND		430	50	ug/Kg	☼	04/24/12 14:08	04/26/12 02:33	1
4,6-Dinitro-2-methylphenol	ND		430	76	ug/Kg	☼	04/24/12 14:08	04/26/12 02:33	1
4-Bromophenyl phenyl ether	ND		220	70	ug/Kg	☼	04/24/12 14:08	04/26/12 02:33	1
4-Chloro-3-methylphenol	ND		220	9.0	ug/Kg	☼	04/24/12 14:08	04/26/12 02:33	1
4-Chloroaniline	ND		220	64	ug/Kg	☼	04/24/12 14:08	04/26/12 02:33	1
4-Chlorophenyl phenyl ether	ND		220	4.7	ug/Kg	☼	04/24/12 14:08	04/26/12 02:33	1
4-Methylphenol	ND		430	12	ug/Kg	☼	04/24/12 14:08	04/26/12 02:33	1
4-Nitroaniline	ND		430	24	ug/Kg	☼	04/24/12 14:08	04/26/12 02:33	1
4-Nitrophenol	ND		430	53	ug/Kg	☼	04/24/12 14:08	04/26/12 02:33	1
<b>Acenaphthene</b>	<b>180</b>	<b>J</b>	220	2.6	ug/Kg	☼	04/24/12 14:08	04/26/12 02:33	1
<b>Acenaphthylene</b>	<b>180</b>	<b>J</b>	220	1.8	ug/Kg	☼	04/24/12 14:08	04/26/12 02:33	1
Acetophenone	ND		220	11	ug/Kg	☼	04/24/12 14:08	04/26/12 02:33	1
<b>Anthracene</b>	<b>370</b>		220	5.6	ug/Kg	☼	04/24/12 14:08	04/26/12 02:33	1
Atrazine	ND		220	9.7	ug/Kg	☼	04/24/12 14:08	04/26/12 02:33	1
Benzaldehyde	ND		220	24	ug/Kg	☼	04/24/12 14:08	04/26/12 02:33	1
<b>Benzo(a)anthracene</b>	<b>1200</b>		220	3.8	ug/Kg	☼	04/24/12 14:08	04/26/12 02:33	1
<b>Benzo(a)pyrene</b>	<b>1200</b>		220	5.3	ug/Kg	☼	04/24/12 14:08	04/26/12 02:33	1
<b>Benzo(b)fluoranthene</b>	<b>2200</b>		220	4.3	ug/Kg	☼	04/24/12 14:08	04/26/12 02:33	1
<b>Benzo(g,h,i)perylene</b>	<b>600</b>		220	2.6	ug/Kg	☼	04/24/12 14:08	04/26/12 02:33	1
<b>Benzo(k)fluoranthene</b>	<b>950</b>		220	2.4	ug/Kg	☼	04/24/12 14:08	04/26/12 02:33	1
Bis(2-chloroethoxy)methane	ND		220	12	ug/Kg	☼	04/24/12 14:08	04/26/12 02:33	1
Bis(2-chloroethyl)ether	ND		220	19	ug/Kg	☼	04/24/12 14:08	04/26/12 02:33	1
Bis(2-ethylhexyl) phthalate	ND		220	71	ug/Kg	☼	04/24/12 14:08	04/26/12 02:33	1
Butyl benzyl phthalate	ND		220	59	ug/Kg	☼	04/24/12 14:08	04/26/12 02:33	1
<b>Caprolactam</b>	<b>180</b>	<b>J</b>	220	95	ug/Kg	☼	04/24/12 14:08	04/26/12 02:33	1
<b>Carbazole</b>	<b>180</b>	<b>J</b>	220	2.5	ug/Kg	☼	04/24/12 14:08	04/26/12 02:33	1
<b>Chrysene</b>	<b>1400</b>		220	2.2	ug/Kg	☼	04/24/12 14:08	04/26/12 02:33	1
Di-n-butyl phthalate	ND		220	76	ug/Kg	☼	04/24/12 14:08	04/26/12 02:33	1
Di-n-octyl phthalate	ND		220	5.1	ug/Kg	☼	04/24/12 14:08	04/26/12 02:33	1
<b>Dibenz(a,h)anthracene</b>	<b>120</b>	<b>J</b>	220	2.6	ug/Kg	☼	04/24/12 14:08	04/26/12 02:33	1
<b>Dibenzofuran</b>	<b>140</b>	<b>J</b>	220	2.3	ug/Kg	☼	04/24/12 14:08	04/26/12 02:33	1
Diethyl phthalate	ND		220	6.6	ug/Kg	☼	04/24/12 14:08	04/26/12 02:33	1
Dimethyl phthalate	ND		220	5.7	ug/Kg	☼	04/24/12 14:08	04/26/12 02:33	1
<b>Fluoranthene</b>	<b>1700</b>		220	3.2	ug/Kg	☼	04/24/12 14:08	04/26/12 02:33	1
<b>Fluorene</b>	<b>130</b>	<b>J</b>	220	5.0	ug/Kg	☼	04/24/12 14:08	04/26/12 02:33	1

# Client Sample Results

Client: Turnkey Environmental Restoration, LLC  
 Project/Site: Turnkey - 600 River Rd site

TestAmerica Job ID: 480-18577-1

**Client Sample ID: EP-21 (3-7)**

**Lab Sample ID: 480-18577-6**

Date Collected: 04/12/12 12:10

Matrix: Solid

Date Received: 04/13/12 09:00

Percent Solids: 76.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorobenzene	ND		220	11	ug/Kg	☼	04/24/12 14:08	04/26/12 02:33	1
Hexachlorobutadiene	ND		220	11	ug/Kg	☼	04/24/12 14:08	04/26/12 02:33	1
Hexachlorocyclopentadiene	ND		220	66	ug/Kg	☼	04/24/12 14:08	04/26/12 02:33	1
Hexachloroethane	ND		220	17	ug/Kg	☼	04/24/12 14:08	04/26/12 02:33	1
<b>Indeno(1,2,3-cd)pyrene</b>	<b>640</b>		220	6.1	ug/Kg	☼	04/24/12 14:08	04/26/12 02:33	1
Isophorone	ND		220	11	ug/Kg	☼	04/24/12 14:08	04/26/12 02:33	1
N-Nitrosodi-n-propylamine	ND		220	17	ug/Kg	☼	04/24/12 14:08	04/26/12 02:33	1
N-Nitrosodiphenylamine	ND		220	12	ug/Kg	☼	04/24/12 14:08	04/26/12 02:33	1
<b>Naphthalene</b>	<b>270</b>		220	3.6	ug/Kg	☼	04/24/12 14:08	04/26/12 02:33	1
Nitrobenzene	ND		220	9.7	ug/Kg	☼	04/24/12 14:08	04/26/12 02:33	1
Pentachlorophenol	ND		430	75	ug/Kg	☼	04/24/12 14:08	04/26/12 02:33	1
<b>Phenanthrene</b>	<b>1100</b>		220	4.6	ug/Kg	☼	04/24/12 14:08	04/26/12 02:33	1
Phenol	ND		220	23	ug/Kg	☼	04/24/12 14:08	04/26/12 02:33	1
<b>Pyrene</b>	<b>1600</b>		220	1.4	ug/Kg	☼	04/24/12 14:08	04/26/12 02:33	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	91		39 - 146	04/24/12 14:08	04/26/12 02:33	1
2-Fluorobiphenyl	78		37 - 120	04/24/12 14:08	04/26/12 02:33	1
2-Fluorophenol	61		18 - 120	04/24/12 14:08	04/26/12 02:33	1
Nitrobenzene-d5	68		34 - 132	04/24/12 14:08	04/26/12 02:33	1
p-Terphenyl-d14	85		65 - 153	04/24/12 14:08	04/26/12 02:33	1
Phenol-d5	64		11 - 120	04/24/12 14:08	04/26/12 02:33	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		250	49	ug/Kg	☼	04/16/12 09:22	04/16/12 19:03	1
PCB-1221	ND		250	49	ug/Kg	☼	04/16/12 09:22	04/16/12 19:03	1
PCB-1232	ND		250	49	ug/Kg	☼	04/16/12 09:22	04/16/12 19:03	1
PCB-1242	ND		250	49	ug/Kg	☼	04/16/12 09:22	04/16/12 19:03	1
PCB-1248	ND		250	49	ug/Kg	☼	04/16/12 09:22	04/16/12 19:03	1
PCB-1254	ND		250	120	ug/Kg	☼	04/16/12 09:22	04/16/12 19:03	1
PCB-1260	ND		250	120	ug/Kg	☼	04/16/12 09:22	04/16/12 19:03	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	130		36 - 182	04/16/12 09:22	04/16/12 19:03	1
Tetrachloro-m-xylene	127		24 - 172	04/16/12 09:22	04/16/12 19:03	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Arsenic</b>	<b>16.1</b>		2.4		mg/Kg	☼	04/16/12 14:45	04/17/12 21:14	1
<b>Barium</b>	<b>73.1</b>		0.61		mg/Kg	☼	04/16/12 14:45	04/17/12 21:14	1
<b>Cadmium</b>	<b>0.63</b>		0.24		mg/Kg	☼	04/16/12 14:45	04/17/12 21:14	1
<b>Chromium</b>	<b>61.2</b>		0.61		mg/Kg	☼	04/16/12 14:45	04/17/12 21:14	1
<b>Lead</b>	<b>135</b>		1.2		mg/Kg	☼	04/16/12 14:45	04/17/12 21:14	1
Selenium	ND		4.9		mg/Kg	☼	04/16/12 14:45	04/17/12 21:14	1
Silver	ND		0.61		mg/Kg	☼	04/16/12 14:45	04/17/12 21:14	1

**Method: 7471A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>0.091</b>		0.025		mg/Kg	☼	04/17/12 09:30	04/17/12 13:53	1

# Client Sample Results

Client: Turnkey Environmental Restoration, LLC  
 Project/Site: Turnkey - 600 River Rd site

TestAmerica Job ID: 480-18577-1

**Client Sample ID: EP-25 (8-12)**

**Lab Sample ID: 480-18577-7**

**Date Collected: 04/13/12 13:18**

**Matrix: Solid**

**Date Received: 04/13/12 09:00**

**Percent Solids: 91.5**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Biphenyl	ND		180	11	ug/Kg	*	04/24/12 14:08	04/26/12 02:57	1
bis (2-chloroisopropyl) ether	ND		180	19	ug/Kg	*	04/24/12 14:08	04/26/12 02:57	1
2,4,5-Trichlorophenol	ND		180	40	ug/Kg	*	04/24/12 14:08	04/26/12 02:57	1
2,4,6-Trichlorophenol	ND		180	12	ug/Kg	*	04/24/12 14:08	04/26/12 02:57	1
2,4-Dichlorophenol	ND		180	9.6	ug/Kg	*	04/24/12 14:08	04/26/12 02:57	1
2,4-Dimethylphenol	ND		180	49	ug/Kg	*	04/24/12 14:08	04/26/12 02:57	1
2,4-Dinitrophenol	ND		360	64	ug/Kg	*	04/24/12 14:08	04/26/12 02:57	1
2,4-Dinitrotoluene	ND		180	28	ug/Kg	*	04/24/12 14:08	04/26/12 02:57	1
2,6-Dinitrotoluene	ND		180	45	ug/Kg	*	04/24/12 14:08	04/26/12 02:57	1
2-Chloronaphthalene	ND		180	12	ug/Kg	*	04/24/12 14:08	04/26/12 02:57	1
2-Chlorophenol	ND		180	9.3	ug/Kg	*	04/24/12 14:08	04/26/12 02:57	1
2-Methylnaphthalene	ND		180	2.2	ug/Kg	*	04/24/12 14:08	04/26/12 02:57	1
2-Methylphenol	ND		180	5.6	ug/Kg	*	04/24/12 14:08	04/26/12 02:57	1
2-Nitroaniline	ND		360	59	ug/Kg	*	04/24/12 14:08	04/26/12 02:57	1
2-Nitrophenol	ND		180	8.3	ug/Kg	*	04/24/12 14:08	04/26/12 02:57	1
3,3'-Dichlorobenzidine	ND		180	160	ug/Kg	*	04/24/12 14:08	04/26/12 02:57	1
3-Nitroaniline	ND		360	42	ug/Kg	*	04/24/12 14:08	04/26/12 02:57	1
4,6-Dinitro-2-methylphenol	ND		360	63	ug/Kg	*	04/24/12 14:08	04/26/12 02:57	1
4-Bromophenyl phenyl ether	ND		180	58	ug/Kg	*	04/24/12 14:08	04/26/12 02:57	1
4-Chloro-3-methylphenol	ND		180	7.5	ug/Kg	*	04/24/12 14:08	04/26/12 02:57	1
4-Chloroaniline	ND		180	54	ug/Kg	*	04/24/12 14:08	04/26/12 02:57	1
4-Chlorophenyl phenyl ether	ND		180	3.9	ug/Kg	*	04/24/12 14:08	04/26/12 02:57	1
4-Methylphenol	ND		360	10	ug/Kg	*	04/24/12 14:08	04/26/12 02:57	1
4-Nitroaniline	ND		360	20	ug/Kg	*	04/24/12 14:08	04/26/12 02:57	1
4-Nitrophenol	ND		360	44	ug/Kg	*	04/24/12 14:08	04/26/12 02:57	1
Acenaphthene	ND		180	2.1	ug/Kg	*	04/24/12 14:08	04/26/12 02:57	1
Acenaphthylene	ND		180	1.5	ug/Kg	*	04/24/12 14:08	04/26/12 02:57	1
Acetophenone	ND		180	9.4	ug/Kg	*	04/24/12 14:08	04/26/12 02:57	1
Anthracene	ND		180	4.7	ug/Kg	*	04/24/12 14:08	04/26/12 02:57	1
Atrazine	ND		180	8.1	ug/Kg	*	04/24/12 14:08	04/26/12 02:57	1
Benzaldehyde	ND		180	20	ug/Kg	*	04/24/12 14:08	04/26/12 02:57	1
Benzo(a)anthracene	ND		180	3.2	ug/Kg	*	04/24/12 14:08	04/26/12 02:57	1
Benzo(a)pyrene	ND		180	4.4	ug/Kg	*	04/24/12 14:08	04/26/12 02:57	1
Benzo(b)fluoranthene	ND		180	3.5	ug/Kg	*	04/24/12 14:08	04/26/12 02:57	1
Benzo(g,h,i)perylene	ND		180	2.2	ug/Kg	*	04/24/12 14:08	04/26/12 02:57	1
Benzo(k)fluoranthene	ND		180	2.0	ug/Kg	*	04/24/12 14:08	04/26/12 02:57	1
Bis(2-chloroethoxy)methane	ND		180	9.9	ug/Kg	*	04/24/12 14:08	04/26/12 02:57	1
Bis(2-chloroethyl)ether	ND		180	16	ug/Kg	*	04/24/12 14:08	04/26/12 02:57	1
Bis(2-ethylhexyl) phthalate	ND		180	59	ug/Kg	*	04/24/12 14:08	04/26/12 02:57	1
Butyl benzyl phthalate	ND		180	49	ug/Kg	*	04/24/12 14:08	04/26/12 02:57	1
Caprolactam	ND		180	79	ug/Kg	*	04/24/12 14:08	04/26/12 02:57	1
Carbazole	ND		180	2.1	ug/Kg	*	04/24/12 14:08	04/26/12 02:57	1
Chrysene	ND		180	1.8	ug/Kg	*	04/24/12 14:08	04/26/12 02:57	1
Di-n-butyl phthalate	ND		180	63	ug/Kg	*	04/24/12 14:08	04/26/12 02:57	1
Di-n-octyl phthalate	ND		180	4.3	ug/Kg	*	04/24/12 14:08	04/26/12 02:57	1
Dibenz(a,h)anthracene	ND		180	2.1	ug/Kg	*	04/24/12 14:08	04/26/12 02:57	1
Dibenzofuran	ND		180	1.9	ug/Kg	*	04/24/12 14:08	04/26/12 02:57	1
Diethyl phthalate	ND		180	5.5	ug/Kg	*	04/24/12 14:08	04/26/12 02:57	1
Dimethyl phthalate	ND		180	4.8	ug/Kg	*	04/24/12 14:08	04/26/12 02:57	1
Fluoranthene	ND		180	2.6	ug/Kg	*	04/24/12 14:08	04/26/12 02:57	1
Fluorene	ND		180	4.2	ug/Kg	*	04/24/12 14:08	04/26/12 02:57	1



# Client Sample Results

Client: Turnkey Environmental Restoration, LLC  
 Project/Site: Turnkey - 600 River Rd site

TestAmerica Job ID: 480-18577-1

**Client Sample ID: EP-25 (8-12)**

**Lab Sample ID: 480-18577-7**

Date Collected: 04/13/12 13:18

Matrix: Solid

Date Received: 04/13/12 09:00

Percent Solids: 91.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorobenzene	ND		180	9.1	ug/Kg	☼	04/24/12 14:08	04/26/12 02:57	1
Hexachlorobutadiene	ND		180	9.3	ug/Kg	☼	04/24/12 14:08	04/26/12 02:57	1
Hexachlorocyclopentadiene	ND		180	55	ug/Kg	☼	04/24/12 14:08	04/26/12 02:57	1
Hexachloroethane	ND		180	14	ug/Kg	☼	04/24/12 14:08	04/26/12 02:57	1
Indeno(1,2,3-cd)pyrene	ND		180	5.0	ug/Kg	☼	04/24/12 14:08	04/26/12 02:57	1
Isophorone	ND		180	9.1	ug/Kg	☼	04/24/12 14:08	04/26/12 02:57	1
N-Nitrosodi-n-propylamine	ND		180	14	ug/Kg	☼	04/24/12 14:08	04/26/12 02:57	1
N-Nitrosodiphenylamine	ND		180	10	ug/Kg	☼	04/24/12 14:08	04/26/12 02:57	1
Naphthalene	ND		180	3.0	ug/Kg	☼	04/24/12 14:08	04/26/12 02:57	1
Nitrobenzene	ND		180	8.1	ug/Kg	☼	04/24/12 14:08	04/26/12 02:57	1
Pentachlorophenol	ND		360	63	ug/Kg	☼	04/24/12 14:08	04/26/12 02:57	1
Phenanthrene	ND		180	3.8	ug/Kg	☼	04/24/12 14:08	04/26/12 02:57	1
Phenol	ND		180	19	ug/Kg	☼	04/24/12 14:08	04/26/12 02:57	1
Pyrene	ND		180	1.2	ug/Kg	☼	04/24/12 14:08	04/26/12 02:57	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	91		39 - 146	04/24/12 14:08	04/26/12 02:57	1
2-Fluorobiphenyl	80		37 - 120	04/24/12 14:08	04/26/12 02:57	1
2-Fluorophenol	61		18 - 120	04/24/12 14:08	04/26/12 02:57	1
Nitrobenzene-d5	67		34 - 132	04/24/12 14:08	04/26/12 02:57	1
p-Terphenyl-d14	95		65 - 153	04/24/12 14:08	04/26/12 02:57	1
Phenol-d5	66		11 - 120	04/24/12 14:08	04/26/12 02:57	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		210	40	ug/Kg	☼	04/16/12 09:22	04/16/12 19:18	1
PCB-1221	ND		210	40	ug/Kg	☼	04/16/12 09:22	04/16/12 19:18	1
PCB-1232	ND		210	40	ug/Kg	☼	04/16/12 09:22	04/16/12 19:18	1
PCB-1242	ND		210	40	ug/Kg	☼	04/16/12 09:22	04/16/12 19:18	1
PCB-1248	ND		210	40	ug/Kg	☼	04/16/12 09:22	04/16/12 19:18	1
PCB-1254	ND		210	97	ug/Kg	☼	04/16/12 09:22	04/16/12 19:18	1
PCB-1260	ND		210	97	ug/Kg	☼	04/16/12 09:22	04/16/12 19:18	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	108		36 - 182	04/16/12 09:22	04/16/12 19:18	1
Tetrachloro-m-xylene	109		24 - 172	04/16/12 09:22	04/16/12 19:18	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	5.2		2.2		mg/Kg	☼	04/16/12 14:45	04/17/12 21:17	1
Barium	117		0.55		mg/Kg	☼	04/16/12 14:45	04/17/12 21:17	1
Cadmium	ND		0.22		mg/Kg	☼	04/16/12 14:45	04/17/12 21:17	1
Chromium	6.6		0.55		mg/Kg	☼	04/16/12 14:45	04/17/12 21:17	1
Lead	9.7		1.1		mg/Kg	☼	04/16/12 14:45	04/17/12 21:17	1
Selenium	ND		4.4		mg/Kg	☼	04/16/12 14:45	04/17/12 21:17	1
Silver	ND		0.55		mg/Kg	☼	04/16/12 14:45	04/17/12 21:17	1

**Method: 7471A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.021		mg/Kg	☼	04/17/12 09:30	04/17/12 13:55	1



# Client Sample Results

Client: Turnkey Environmental Restoration, LLC  
 Project/Site: Turnkey - 600 River Rd site

TestAmerica Job ID: 480-18577-1

**Client Sample ID: EP-28 (4-7)**

**Lab Sample ID: 480-18577-8**

**Date Collected: 04/13/12 12:53**

**Matrix: Solid**

**Date Received: 04/13/12 09:00**

**Percent Solids: 76.3**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Biphenyl	ND		220	14	ug/Kg	*	04/24/12 14:08	04/26/12 03:21	1
bis (2-chloroisopropyl) ether	ND		220	23	ug/Kg	*	04/24/12 14:08	04/26/12 03:21	1
2,4,5-Trichlorophenol	ND		220	48	ug/Kg	*	04/24/12 14:08	04/26/12 03:21	1
2,4,6-Trichlorophenol	ND		220	15	ug/Kg	*	04/24/12 14:08	04/26/12 03:21	1
2,4-Dichlorophenol	ND		220	12	ug/Kg	*	04/24/12 14:08	04/26/12 03:21	1
2,4-Dimethylphenol	ND		220	59	ug/Kg	*	04/24/12 14:08	04/26/12 03:21	1
2,4-Dinitrophenol	ND		430	77	ug/Kg	*	04/24/12 14:08	04/26/12 03:21	1
2,4-Dinitrotoluene	ND		220	34	ug/Kg	*	04/24/12 14:08	04/26/12 03:21	1
2,6-Dinitrotoluene	ND		220	54	ug/Kg	*	04/24/12 14:08	04/26/12 03:21	1
2-Chloronaphthalene	ND		220	15	ug/Kg	*	04/24/12 14:08	04/26/12 03:21	1
2-Chlorophenol	ND		220	11	ug/Kg	*	04/24/12 14:08	04/26/12 03:21	1
2-Methylnaphthalene	ND		220	2.7	ug/Kg	*	04/24/12 14:08	04/26/12 03:21	1
2-Methylphenol	ND		220	6.8	ug/Kg	*	04/24/12 14:08	04/26/12 03:21	1
2-Nitroaniline	ND		430	71	ug/Kg	*	04/24/12 14:08	04/26/12 03:21	1
2-Nitrophenol	ND		220	10	ug/Kg	*	04/24/12 14:08	04/26/12 03:21	1
3,3'-Dichlorobenzidine	ND		220	190	ug/Kg	*	04/24/12 14:08	04/26/12 03:21	1
3-Nitroaniline	ND		430	51	ug/Kg	*	04/24/12 14:08	04/26/12 03:21	1
4,6-Dinitro-2-methylphenol	ND		430	76	ug/Kg	*	04/24/12 14:08	04/26/12 03:21	1
4-Bromophenyl phenyl ether	ND		220	70	ug/Kg	*	04/24/12 14:08	04/26/12 03:21	1
4-Chloro-3-methylphenol	ND		220	9.1	ug/Kg	*	04/24/12 14:08	04/26/12 03:21	1
4-Chloroaniline	ND		220	65	ug/Kg	*	04/24/12 14:08	04/26/12 03:21	1
4-Chlorophenyl phenyl ether	ND		220	4.7	ug/Kg	*	04/24/12 14:08	04/26/12 03:21	1
4-Methylphenol	ND		430	12	ug/Kg	*	04/24/12 14:08	04/26/12 03:21	1
4-Nitroaniline	ND		430	25	ug/Kg	*	04/24/12 14:08	04/26/12 03:21	1
4-Nitrophenol	ND		430	53	ug/Kg	*	04/24/12 14:08	04/26/12 03:21	1
Acenaphthene	ND		220	2.6	ug/Kg	*	04/24/12 14:08	04/26/12 03:21	1
Acenaphthylene	ND		220	1.8	ug/Kg	*	04/24/12 14:08	04/26/12 03:21	1
Acetophenone	ND		220	11	ug/Kg	*	04/24/12 14:08	04/26/12 03:21	1
Anthracene	ND		220	5.6	ug/Kg	*	04/24/12 14:08	04/26/12 03:21	1
Atrazine	ND		220	9.8	ug/Kg	*	04/24/12 14:08	04/26/12 03:21	1
Benzaldehyde	ND		220	24	ug/Kg	*	04/24/12 14:08	04/26/12 03:21	1
Benzo(a)anthracene	ND		220	3.8	ug/Kg	*	04/24/12 14:08	04/26/12 03:21	1
Benzo(a)pyrene	ND		220	5.3	ug/Kg	*	04/24/12 14:08	04/26/12 03:21	1
Benzo(b)fluoranthene	ND		220	4.3	ug/Kg	*	04/24/12 14:08	04/26/12 03:21	1
Benzo(g,h,i)perylene	ND		220	2.6	ug/Kg	*	04/24/12 14:08	04/26/12 03:21	1
Benzo(k)fluoranthene	ND		220	2.4	ug/Kg	*	04/24/12 14:08	04/26/12 03:21	1
Bis(2-chloroethoxy)methane	ND		220	12	ug/Kg	*	04/24/12 14:08	04/26/12 03:21	1
Bis(2-chloroethyl)ether	ND		220	19	ug/Kg	*	04/24/12 14:08	04/26/12 03:21	1
Bis(2-ethylhexyl) phthalate	ND		220	71	ug/Kg	*	04/24/12 14:08	04/26/12 03:21	1
Butyl benzyl phthalate	ND		220	59	ug/Kg	*	04/24/12 14:08	04/26/12 03:21	1
Caprolactam	ND		220	95	ug/Kg	*	04/24/12 14:08	04/26/12 03:21	1
Carbazole	ND		220	2.5	ug/Kg	*	04/24/12 14:08	04/26/12 03:21	1
Chrysene	ND		220	2.2	ug/Kg	*	04/24/12 14:08	04/26/12 03:21	1
Di-n-butyl phthalate	ND		220	76	ug/Kg	*	04/24/12 14:08	04/26/12 03:21	1
Di-n-octyl phthalate	ND		220	5.1	ug/Kg	*	04/24/12 14:08	04/26/12 03:21	1
Dibenz(a,h)anthracene	ND		220	2.6	ug/Kg	*	04/24/12 14:08	04/26/12 03:21	1
Dibenzofuran	ND		220	2.3	ug/Kg	*	04/24/12 14:08	04/26/12 03:21	1
Diethyl phthalate	ND		220	6.6	ug/Kg	*	04/24/12 14:08	04/26/12 03:21	1
Dimethyl phthalate	ND		220	5.7	ug/Kg	*	04/24/12 14:08	04/26/12 03:21	1
Fluoranthene	ND		220	3.2	ug/Kg	*	04/24/12 14:08	04/26/12 03:21	1
Fluorene	ND		220	5.1	ug/Kg	*	04/24/12 14:08	04/26/12 03:21	1

# Client Sample Results

Client: Turnkey Environmental Restoration, LLC  
 Project/Site: Turnkey - 600 River Rd site

TestAmerica Job ID: 480-18577-1

**Client Sample ID: EP-28 (4-7)**

**Lab Sample ID: 480-18577-8**

**Date Collected: 04/13/12 12:53**

**Matrix: Solid**

**Date Received: 04/13/12 09:00**

**Percent Solids: 76.3**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorobenzene	ND		220	11	ug/Kg	☼	04/24/12 14:08	04/26/12 03:21	1
Hexachlorobutadiene	ND		220	11	ug/Kg	☼	04/24/12 14:08	04/26/12 03:21	1
Hexachlorocyclopentadiene	ND		220	67	ug/Kg	☼	04/24/12 14:08	04/26/12 03:21	1
Hexachloroethane	ND		220	17	ug/Kg	☼	04/24/12 14:08	04/26/12 03:21	1
Indeno(1,2,3-cd)pyrene	ND		220	6.1	ug/Kg	☼	04/24/12 14:08	04/26/12 03:21	1
Isophorone	ND		220	11	ug/Kg	☼	04/24/12 14:08	04/26/12 03:21	1
N-Nitrosodi-n-propylamine	ND		220	17	ug/Kg	☼	04/24/12 14:08	04/26/12 03:21	1
N-Nitrosodiphenylamine	ND		220	12	ug/Kg	☼	04/24/12 14:08	04/26/12 03:21	1
Naphthalene	ND		220	3.7	ug/Kg	☼	04/24/12 14:08	04/26/12 03:21	1
Nitrobenzene	ND		220	9.8	ug/Kg	☼	04/24/12 14:08	04/26/12 03:21	1
Pentachlorophenol	ND		430	75	ug/Kg	☼	04/24/12 14:08	04/26/12 03:21	1
Phenanthrene	ND		220	4.6	ug/Kg	☼	04/24/12 14:08	04/26/12 03:21	1
Phenol	ND		220	23	ug/Kg	☼	04/24/12 14:08	04/26/12 03:21	1
Pyrene	ND		220	1.4	ug/Kg	☼	04/24/12 14:08	04/26/12 03:21	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	97		39 - 146	04/24/12 14:08	04/26/12 03:21	1
2-Fluorobiphenyl	73		37 - 120	04/24/12 14:08	04/26/12 03:21	1
2-Fluorophenol	53		18 - 120	04/24/12 14:08	04/26/12 03:21	1
Nitrobenzene-d5	62		34 - 132	04/24/12 14:08	04/26/12 03:21	1
p-Terphenyl-d14	91		65 - 153	04/24/12 14:08	04/26/12 03:21	1
Phenol-d5	59		11 - 120	04/24/12 14:08	04/26/12 03:21	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		270	52	ug/Kg	☼	04/16/12 09:22	04/16/12 19:33	1
PCB-1221	ND		270	52	ug/Kg	☼	04/16/12 09:22	04/16/12 19:33	1
PCB-1232	ND		270	52	ug/Kg	☼	04/16/12 09:22	04/16/12 19:33	1
PCB-1242	ND		270	52	ug/Kg	☼	04/16/12 09:22	04/16/12 19:33	1
PCB-1248	ND		270	52	ug/Kg	☼	04/16/12 09:22	04/16/12 19:33	1
PCB-1254	ND		270	120	ug/Kg	☼	04/16/12 09:22	04/16/12 19:33	1
PCB-1260	ND		270	120	ug/Kg	☼	04/16/12 09:22	04/16/12 19:33	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	113		36 - 182	04/16/12 09:22	04/16/12 19:33	1
Tetrachloro-m-xylene	119		24 - 172	04/16/12 09:22	04/16/12 19:33	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	3.9		2.5		mg/Kg	☼	04/16/12 14:45	04/17/12 21:19	1
Barium	222		0.62		mg/Kg	☼	04/16/12 14:45	04/17/12 21:19	1
Cadmium	ND		0.25		mg/Kg	☼	04/16/12 14:45	04/17/12 21:19	1
Chromium	3.6		0.62		mg/Kg	☼	04/16/12 14:45	04/17/12 21:19	1
Lead	2.0		1.2		mg/Kg	☼	04/16/12 14:45	04/17/12 21:19	1
Selenium	5.8		5.0		mg/Kg	☼	04/16/12 14:45	04/17/12 21:19	1
Silver	ND		0.62		mg/Kg	☼	04/16/12 14:45	04/17/12 21:19	1

**Method: 7471A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.025		mg/Kg	☼	04/17/12 09:30	04/17/12 13:56	1

## Surrogate Summary

Client: Turnkey Environmental Restoration, LLC  
 Project/Site: Turnkey - 600 River Rd site

TestAmerica Job ID: 480-18577-1

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

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)					
		TBP (39-146)	FBP (37-120)	2FP (18-120)	NBZ (34-132)	TPH (65-153)	PHL (11-120)
480-18577-1	EP-19 (0-4)	92	79	58	66	95	64
480-18577-2	EP-24 (0-4)	95	81	66	68	96	73
480-18577-3	EP-27 (0-4)	100	81	60	68	100	67
480-18577-4	EP-22 (0-4)	98	76	59	64	94	65
480-18577-5	EP-26 (0-4)	92	78	66	69	92	69
480-18577-6	EP-21 (3-7)	91	78	61	68	85	64
480-18577-7	EP-25 (8-12)	91	80	61	67	95	66
480-18577-8	EP-28 (4-7)	97	73	53	62	91	59
LCS 480-61306/2-A	Lab Control Sample	101	82	67	71	98	72
LCS 480-61306/3-A	Lab Control Sample Dup	101	81	69	74	96	75
MB 480-61306/1-A	Method Blank	98	82	70	74	103	74

#### Surrogate Legend

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

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

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)	
		DCB2 (36-182)	TCX2 (24-172)
480-18577-1	EP-19 (0-4)	100	106
480-18577-2	EP-24 (0-4)	85	90
480-18577-3	EP-27 (0-4)	146	118
480-18577-4	EP-22 (0-4)	113	121
480-18577-4 MS	EP-22 (0-4)	120	125
480-18577-4 MSD	EP-22 (0-4)	132	134
480-18577-5	EP-26 (0-4)	112	110
480-18577-6	EP-21 (3-7)	130	127
480-18577-7	EP-25 (8-12)	108	109
480-18577-8	EP-28 (4-7)	113	119
LCS 480-59746/2-A	Lab Control Sample	156	166
MB 480-59746/1-A	Method Blank	144	142

#### Surrogate Legend

DCB = DCB Decachlorobiphenyl  
 TCX = Tetrachloro-m-xylene

# QC Sample Results

Client: Turnkey Environmental Restoration, LLC  
 Project/Site: Turnkey - 600 River Rd site

TestAmerica Job ID: 480-18577-1

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

**Lab Sample ID: MB 480-61306/1-A**

**Matrix: Solid**

**Analysis Batch: 61485**

**Client Sample ID: Method Blank**

**Prep Type: Total/NA**

**Prep Batch: 61306**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Biphenyl	ND		170	10	ug/Kg		04/24/12 14:08	04/25/12 23:24	1
bis (2-chloroisopropyl) ether	ND		170	18	ug/Kg		04/24/12 14:08	04/25/12 23:24	1
2,4,5-Trichlorophenol	ND		170	37	ug/Kg		04/24/12 14:08	04/25/12 23:24	1
2,4,6-Trichlorophenol	ND		170	11	ug/Kg		04/24/12 14:08	04/25/12 23:24	1
2,4-Dichlorophenol	ND		170	8.8	ug/Kg		04/24/12 14:08	04/25/12 23:24	1
2,4-Dimethylphenol	ND		170	45	ug/Kg		04/24/12 14:08	04/25/12 23:24	1
2,4-Dinitrophenol	ND		330	59	ug/Kg		04/24/12 14:08	04/25/12 23:24	1
2,4-Dinitrotoluene	ND		170	26	ug/Kg		04/24/12 14:08	04/25/12 23:24	1
2,6-Dinitrotoluene	ND		170	41	ug/Kg		04/24/12 14:08	04/25/12 23:24	1
2-Chloronaphthalene	ND		170	11	ug/Kg		04/24/12 14:08	04/25/12 23:24	1
2-Chlorophenol	ND		170	8.5	ug/Kg		04/24/12 14:08	04/25/12 23:24	1
2-Methylnaphthalene	ND		170	2.0	ug/Kg		04/24/12 14:08	04/25/12 23:24	1
2-Methylphenol	ND		170	5.2	ug/Kg		04/24/12 14:08	04/25/12 23:24	1
2-Nitroaniline	ND		330	54	ug/Kg		04/24/12 14:08	04/25/12 23:24	1
2-Nitrophenol	ND		170	7.7	ug/Kg		04/24/12 14:08	04/25/12 23:24	1
3,3'-Dichlorobenzidine	ND		170	150	ug/Kg		04/24/12 14:08	04/25/12 23:24	1
3-Nitroaniline	ND		330	39	ug/Kg		04/24/12 14:08	04/25/12 23:24	1
4,6-Dinitro-2-methylphenol	ND		330	58	ug/Kg		04/24/12 14:08	04/25/12 23:24	1
4-Bromophenyl phenyl ether	ND		170	53	ug/Kg		04/24/12 14:08	04/25/12 23:24	1
4-Chloro-3-methylphenol	ND		170	6.9	ug/Kg		04/24/12 14:08	04/25/12 23:24	1
4-Chloroaniline	ND		170	49	ug/Kg		04/24/12 14:08	04/25/12 23:24	1
4-Chlorophenyl phenyl ether	ND		170	3.6	ug/Kg		04/24/12 14:08	04/25/12 23:24	1
4-Methylphenol	ND		330	9.3	ug/Kg		04/24/12 14:08	04/25/12 23:24	1
4-Nitroaniline	ND		330	19	ug/Kg		04/24/12 14:08	04/25/12 23:24	1
4-Nitrophenol	ND		330	41	ug/Kg		04/24/12 14:08	04/25/12 23:24	1
Acenaphthene	ND		170	2.0	ug/Kg		04/24/12 14:08	04/25/12 23:24	1
Acenaphthylene	ND		170	1.4	ug/Kg		04/24/12 14:08	04/25/12 23:24	1
Acetophenone	ND		170	8.6	ug/Kg		04/24/12 14:08	04/25/12 23:24	1
Anthracene	ND		170	4.3	ug/Kg		04/24/12 14:08	04/25/12 23:24	1
Atrazine	ND		170	7.5	ug/Kg		04/24/12 14:08	04/25/12 23:24	1
Benzaldehyde	ND		170	18	ug/Kg		04/24/12 14:08	04/25/12 23:24	1
Benzo(a)anthracene	ND		170	2.9	ug/Kg		04/24/12 14:08	04/25/12 23:24	1
Benzo(a)pyrene	ND		170	4.0	ug/Kg		04/24/12 14:08	04/25/12 23:24	1
Benzo(b)fluoranthene	ND		170	3.3	ug/Kg		04/24/12 14:08	04/25/12 23:24	1
Benzo(g,h,i)perylene	ND		170	2.0	ug/Kg		04/24/12 14:08	04/25/12 23:24	1
Benzo(k)fluoranthene	ND		170	1.8	ug/Kg		04/24/12 14:08	04/25/12 23:24	1
Bis(2-chloroethoxy)methane	ND		170	9.1	ug/Kg		04/24/12 14:08	04/25/12 23:24	1
Bis(2-chloroethyl)ether	ND		170	14	ug/Kg		04/24/12 14:08	04/25/12 23:24	1
Bis(2-ethylhexyl) phthalate	ND		170	54	ug/Kg		04/24/12 14:08	04/25/12 23:24	1
Butyl benzyl phthalate	ND		170	45	ug/Kg		04/24/12 14:08	04/25/12 23:24	1
Caprolactam	ND		170	73	ug/Kg		04/24/12 14:08	04/25/12 23:24	1
Carbazole	ND		170	1.9	ug/Kg		04/24/12 14:08	04/25/12 23:24	1
Chrysene	ND		170	1.7	ug/Kg		04/24/12 14:08	04/25/12 23:24	1
Di-n-butyl phthalate	ND		170	58	ug/Kg		04/24/12 14:08	04/25/12 23:24	1
Di-n-octyl phthalate	ND		170	3.9	ug/Kg		04/24/12 14:08	04/25/12 23:24	1
Dibenz(a,h)anthracene	ND		170	2.0	ug/Kg		04/24/12 14:08	04/25/12 23:24	1
Dibenzofuran	ND		170	1.7	ug/Kg		04/24/12 14:08	04/25/12 23:24	1
Diethyl phthalate	ND		170	5.1	ug/Kg		04/24/12 14:08	04/25/12 23:24	1
Dimethyl phthalate	ND		170	4.4	ug/Kg		04/24/12 14:08	04/25/12 23:24	1

# QC Sample Results

Client: Turnkey Environmental Restoration, LLC  
 Project/Site: Turnkey - 600 River Rd site

TestAmerica Job ID: 480-18577-1

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

**Lab Sample ID: MB 480-61306/1-A**

**Matrix: Solid**

**Analysis Batch: 61485**

**Client Sample ID: Method Blank**

**Prep Type: Total/NA**

**Prep Batch: 61306**

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Fluoranthene	ND		170	2.4	ug/Kg		04/24/12 14:08	04/25/12 23:24	1
Fluorene	ND		170	3.9	ug/Kg		04/24/12 14:08	04/25/12 23:24	1
Hexachlorobenzene	ND		170	8.3	ug/Kg		04/24/12 14:08	04/25/12 23:24	1
Hexachlorobutadiene	ND		170	8.6	ug/Kg		04/24/12 14:08	04/25/12 23:24	1
Hexachlorocyclopentadiene	ND		170	51	ug/Kg		04/24/12 14:08	04/25/12 23:24	1
Hexachloroethane	ND		170	13	ug/Kg		04/24/12 14:08	04/25/12 23:24	1
Indeno(1,2,3-cd)pyrene	ND		170	4.6	ug/Kg		04/24/12 14:08	04/25/12 23:24	1
Isophorone	ND		170	8.4	ug/Kg		04/24/12 14:08	04/25/12 23:24	1
N-Nitrosodi-n-propylamine	ND		170	13	ug/Kg		04/24/12 14:08	04/25/12 23:24	1
N-Nitrosodiphenylamine	ND		170	9.2	ug/Kg		04/24/12 14:08	04/25/12 23:24	1
Naphthalene	ND		170	2.8	ug/Kg		04/24/12 14:08	04/25/12 23:24	1
Nitrobenzene	ND		170	7.4	ug/Kg		04/24/12 14:08	04/25/12 23:24	1
Pentachlorophenol	ND		330	58	ug/Kg		04/24/12 14:08	04/25/12 23:24	1
Phenanthrene	ND		170	3.5	ug/Kg		04/24/12 14:08	04/25/12 23:24	1
Phenol	ND		170	18	ug/Kg		04/24/12 14:08	04/25/12 23:24	1
Pyrene	ND		170	1.1	ug/Kg		04/24/12 14:08	04/25/12 23:24	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
2,4,6-Tribromophenol	98		39 - 146	04/24/12 14:08	04/25/12 23:24	1
2-Fluorobiphenyl	82		37 - 120	04/24/12 14:08	04/25/12 23:24	1
2-Fluorophenol	70		18 - 120	04/24/12 14:08	04/25/12 23:24	1
Nitrobenzene-d5	74		34 - 132	04/24/12 14:08	04/25/12 23:24	1
p-Terphenyl-d14	103		65 - 153	04/24/12 14:08	04/25/12 23:24	1
Phenol-d5	74		11 - 120	04/24/12 14:08	04/25/12 23:24	1

**Lab Sample ID: LCS 480-61306/2-A**

**Matrix: Solid**

**Analysis Batch: 61485**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

**Prep Batch: 61306**

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	%Rec. Limits
		Result	Qualifier				
2,4-Dinitrotoluene	3300	3430		ug/Kg		104	55 - 125
2-Chlorophenol	3300	2450		ug/Kg		74	38 - 120
4-Chloro-3-methylphenol	3300	2810		ug/Kg		85	49 - 125
4-Nitrophenol	3300	2840		ug/Kg		86	43 - 137
Acenaphthene	3300	2970		ug/Kg		90	53 - 120
Bis(2-ethylhexyl) phthalate	3300	2890		ug/Kg		88	61 - 133
Fluorene	3300	3050		ug/Kg		92	63 - 126
Hexachloroethane	3300	2150		ug/Kg		65	41 - 120
N-Nitrosodi-n-propylamine	3300	2580		ug/Kg		78	46 - 120
Pentachlorophenol	3300	3300		ug/Kg		100	33 - 136
Phenol	3300	2510		ug/Kg		76	36 - 120
Pyrene	3300	3000		ug/Kg		91	51 - 133

Surrogate	LCS	LCS	Limits
	%Recovery	Qualifier	
2,4,6-Tribromophenol	101		39 - 146
2-Fluorobiphenyl	82		37 - 120
2-Fluorophenol	67		18 - 120
Nitrobenzene-d5	71		34 - 132
p-Terphenyl-d14	98		65 - 153

# QC Sample Results

Client: Turnkey Environmental Restoration, LLC  
 Project/Site: Turnkey - 600 River Rd site

TestAmerica Job ID: 480-18577-1

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

**Lab Sample ID: LCS 480-61306/2-A**  
**Matrix: Solid**  
**Analysis Batch: 61485**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 61306**

<i>Surrogate</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
<i>Phenol-d5</i>	72		11 - 120

**Lab Sample ID: LCSD 480-61306/3-A**  
**Matrix: Solid**  
**Analysis Batch: 61485**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**  
**Prep Batch: 61306**

<i>Analyte</i>	<i>Spike Added</i>	<i>LCSD Result</i>	<i>LCSD Qualifier</i>	<i>Unit</i>	<i>D</i>	<i>%Rec</i>	<i>%Rec. Limits</i>	<i>RPD</i>	<i>RPD Limit</i>
2,4-Dinitrotoluene	3310	3290		ug/Kg		99	55 - 125	4	20
2-Chlorophenol	3310	2550		ug/Kg		77	38 - 120	4	25
4-Chloro-3-methylphenol	3310	2860		ug/Kg		86	49 - 125	2	27
4-Nitrophenol	3310	2760		ug/Kg		83	43 - 137	3	25
Acenaphthene	3310	2910		ug/Kg		88	53 - 120	2	35
Bis(2-ethylhexyl) phthalate	3310	2840		ug/Kg		86	61 - 133	2	15
Fluorene	3310	2930		ug/Kg		88	63 - 126	4	15
Hexachloroethane	3310	2270		ug/Kg		68	41 - 120	5	46
N-Nitrosodi-n-propylamine	3310	2610		ug/Kg		79	46 - 120	1	31
Pentachlorophenol	3310	3070		ug/Kg		93	33 - 136	7	35
Phenol	3310	2630		ug/Kg		79	36 - 120	5	35
Pyrene	3310	2940		ug/Kg		89	51 - 133	2	35

<i>Surrogate</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
<i>2,4,6-Tribromophenol</i>	101		39 - 146
<i>2-Fluorobiphenyl</i>	81		37 - 120
<i>2-Fluorophenol</i>	69		18 - 120
<i>Nitrobenzene-d5</i>	74		34 - 132
<i>p-Terphenyl-d14</i>	96		65 - 153
<i>Phenol-d5</i>	75		11 - 120

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

**Lab Sample ID: MB 480-59746/1-A**  
**Matrix: Solid**  
**Analysis Batch: 59751**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 59746**

<i>Analyte</i>	<i>MB Result</i>	<i>MB Qualifier</i>	<i>RL</i>	<i>MDL</i>	<i>Unit</i>	<i>D</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
PCB-1016	ND		230	45	ug/Kg		04/16/12 09:22	04/16/12 15:35	1
PCB-1221	ND		230	45	ug/Kg		04/16/12 09:22	04/16/12 15:35	1
PCB-1232	ND		230	45	ug/Kg		04/16/12 09:22	04/16/12 15:35	1
PCB-1242	ND		230	45	ug/Kg		04/16/12 09:22	04/16/12 15:35	1
PCB-1248	ND		230	45	ug/Kg		04/16/12 09:22	04/16/12 15:35	1
PCB-1254	ND		230	110	ug/Kg		04/16/12 09:22	04/16/12 15:35	1
PCB-1260	ND		230	110	ug/Kg		04/16/12 09:22	04/16/12 15:35	1

<i>Surrogate</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
<i>DCB Decachlorobiphenyl</i>	144		36 - 182	04/16/12 09:22	04/16/12 15:35	1
<i>Tetrachloro-m-xylene</i>	142		24 - 172	04/16/12 09:22	04/16/12 15:35	1

# QC Sample Results

Client: Turnkey Environmental Restoration, LLC  
 Project/Site: Turnkey - 600 River Rd site

TestAmerica Job ID: 480-18577-1

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

**Lab Sample ID: LCS 480-59746/2-A**

**Matrix: Solid**

**Analysis Batch: 59751**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

**Prep Batch: 59746**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
PCB-1016	1750	2450		ug/Kg		140	51 - 185		
PCB-1260	1750	2670		ug/Kg		153	61 - 184		
		<b>LCS</b>	<b>LCS</b>						
<b>Surrogate</b>		<b>%Recovery</b>	<b>Qualifier</b>			<b>Limits</b>			
DCB Decachlorobiphenyl		156				36 - 182			
Tetrachloro-m-xylene		166				24 - 172			

**Lab Sample ID: 480-18577-4 MS**

**Matrix: Solid**

**Analysis Batch: 59751**

**Client Sample ID: EP-22 (0-4)**

**Prep Type: Total/NA**

**Prep Batch: 59746**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
PCB-1016	ND		2780	2140		ug/Kg	☼	77	42 - 159		
PCB-1260	ND		2780	2480		ug/Kg	☼	89	47 - 153		
		<b>MS</b>	<b>MS</b>								
<b>Surrogate</b>		<b>%Recovery</b>	<b>Qualifier</b>			<b>Limits</b>					
DCB Decachlorobiphenyl		120				36 - 182					
Tetrachloro-m-xylene		125				24 - 172					

**Lab Sample ID: 480-18577-4 MSD**

**Matrix: Solid**

**Analysis Batch: 59751**

**Client Sample ID: EP-22 (0-4)**

**Prep Type: Total/NA**

**Prep Batch: 59746**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits		RPD Limit	
											RPD	Limit
PCB-1016	ND		2870	2740		ug/Kg	☼	95	42 - 159		25	50
PCB-1260	ND		2870	3230		ug/Kg	☼	112	47 - 153		26	50
		<b>MSD</b>	<b>MSD</b>									
<b>Surrogate</b>		<b>%Recovery</b>	<b>Qualifier</b>			<b>Limits</b>						
DCB Decachlorobiphenyl		132				36 - 182						
Tetrachloro-m-xylene		134				24 - 172						

## Method: 6010B - Metals (ICP)

**Lab Sample ID: MB 480-59816/1-A**

**Matrix: Solid**

**Analysis Batch: 60168**

**Client Sample ID: Method Blank**

**Prep Type: Total/NA**

**Prep Batch: 59816**

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Arsenic	ND		2.0		mg/Kg		04/16/12 14:45	04/17/12 20:41	1
Barium	ND		0.49		mg/Kg		04/16/12 14:45	04/17/12 20:41	1
Cadmium	ND		0.20		mg/Kg		04/16/12 14:45	04/17/12 20:41	1
Chromium	ND		0.49		mg/Kg		04/16/12 14:45	04/17/12 20:41	1
Lead	ND		0.98		mg/Kg		04/16/12 14:45	04/17/12 20:41	1
Selenium	ND		3.9		mg/Kg		04/16/12 14:45	04/17/12 20:41	1
Silver	ND		0.49		mg/Kg		04/16/12 14:45	04/17/12 20:41	1



# QC Sample Results

Client: Turnkey Environmental Restoration, LLC  
 Project/Site: Turnkey - 600 River Rd site

TestAmerica Job ID: 480-18577-1

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

**Lab Sample ID: LCSSRM 480-59816/2-A**  
**Matrix: Solid**  
**Analysis Batch: 60168**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 59816**

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	94.4	92.75		mg/Kg		98	70 - 134
Barium	167	164.4		mg/Kg		99	73 - 127
Cadmium	60.4	57.73		mg/Kg		96	73 - 127
Chromium	70.3	67.76		mg/Kg		96	70 - 130
Lead	91.7	92.61		mg/Kg		101	69 - 131
Selenium	86.3	86.56		mg/Kg		100	67 - 134
Silver	34.4	32.13		mg/Kg		94	66 - 134

**Lab Sample ID: 480-18577-3 MS**  
**Matrix: Solid**  
**Analysis Batch: 60168**

**Client Sample ID: EP-27 (0-4)**  
**Prep Type: Total/NA**  
**Prep Batch: 59816**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	10.2		43.0	46.19		mg/Kg	☼	84	75 - 125
Barium	171		43.0	146.0	F	mg/Kg	☼	-58	75 - 125
Cadmium	1.2		43.0	36.99		mg/Kg	☼	83	75 - 125
Chromium	19.4		43.0	54.32		mg/Kg	☼	81	75 - 125
Lead	163		43.0	171.0	F	mg/Kg	☼	19	75 - 125
Selenium	ND		43.0	31.47	F	mg/Kg	☼	68	75 - 125
Silver	ND		10.7	9.21		mg/Kg	☼	82	75 - 125

**Lab Sample ID: 480-18577-3 MSD**  
**Matrix: Solid**  
**Analysis Batch: 60168**

**Client Sample ID: EP-27 (0-4)**  
**Prep Type: Total/NA**  
**Prep Batch: 59816**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Arsenic	10.2		45.4	43.37	F	mg/Kg	☼	73	75 - 125	6.29	20
Barium	171		45.4	194.4	F	mg/Kg	☼	52	75 - 125	28.5	20
Cadmium	1.2		45.4	35.05		mg/Kg	☼	75	75 - 125	5.38	20
Chromium	19.4		45.4	48.68	F	mg/Kg	☼	64	75 - 125	10.9	20
Lead	163		45.4	176.5	F	mg/Kg	☼	30	75 - 125	3.17	20
Selenium	ND		45.4	29.01	F	mg/Kg	☼	59	75 - 125	8.16	20
Silver	ND		11.4	8.82	F	mg/Kg	☼	74	75 - 125	4.39	20

## Method: 7471A - Mercury (CVAA)

**Lab Sample ID: MB 480-59966/1-A**  
**Matrix: Solid**  
**Analysis Batch: 60054**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 59966**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.018		mg/Kg		04/17/12 09:30	04/17/12 13:29	1

**Lab Sample ID: LCSSRM 480-59966/2-A**  
**Matrix: Solid**  
**Analysis Batch: 60054**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 59966**

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	3.77	3.70		mg/Kg		98	51 - 149

# QC Association Summary

Client: Turnkey Environmental Restoration, LLC  
 Project/Site: Turnkey - 600 River Rd site

TestAmerica Job ID: 480-18577-1

## GC/MS Semi VOA

### Prep Batch: 61306

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-18577-1	EP-19 (0-4)	Total/NA	Solid	3550B	
480-18577-2	EP-24 (0-4)	Total/NA	Solid	3550B	
480-18577-3	EP-27 (0-4)	Total/NA	Solid	3550B	
480-18577-4	EP-22 (0-4)	Total/NA	Solid	3550B	
480-18577-5	EP-26 (0-4)	Total/NA	Solid	3550B	
480-18577-6	EP-21 (3-7)	Total/NA	Solid	3550B	
480-18577-7	EP-25 (8-12)	Total/NA	Solid	3550B	
480-18577-8	EP-28 (4-7)	Total/NA	Solid	3550B	
LCS 480-61306/2-A	Lab Control Sample	Total/NA	Solid	3550B	
LCSD 480-61306/3-A	Lab Control Sample Dup	Total/NA	Solid	3550B	
MB 480-61306/1-A	Method Blank	Total/NA	Solid	3550B	

### Analysis Batch: 61485

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-18577-1	EP-19 (0-4)	Total/NA	Solid	8270C	61306
480-18577-2	EP-24 (0-4)	Total/NA	Solid	8270C	61306
480-18577-3	EP-27 (0-4)	Total/NA	Solid	8270C	61306
480-18577-4	EP-22 (0-4)	Total/NA	Solid	8270C	61306
480-18577-5	EP-26 (0-4)	Total/NA	Solid	8270C	61306
480-18577-6	EP-21 (3-7)	Total/NA	Solid	8270C	61306
480-18577-7	EP-25 (8-12)	Total/NA	Solid	8270C	61306
480-18577-8	EP-28 (4-7)	Total/NA	Solid	8270C	61306
LCS 480-61306/2-A	Lab Control Sample	Total/NA	Solid	8270C	61306
LCSD 480-61306/3-A	Lab Control Sample Dup	Total/NA	Solid	8270C	61306
MB 480-61306/1-A	Method Blank	Total/NA	Solid	8270C	61306

## GC Semi VOA

### Prep Batch: 59746

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-18577-1	EP-19 (0-4)	Total/NA	Solid	3550B	
480-18577-2	EP-24 (0-4)	Total/NA	Solid	3550B	
480-18577-3	EP-27 (0-4)	Total/NA	Solid	3550B	
480-18577-4	EP-22 (0-4)	Total/NA	Solid	3550B	
480-18577-4 MS	EP-22 (0-4)	Total/NA	Solid	3550B	
480-18577-4 MSD	EP-22 (0-4)	Total/NA	Solid	3550B	
480-18577-5	EP-26 (0-4)	Total/NA	Solid	3550B	
480-18577-6	EP-21 (3-7)	Total/NA	Solid	3550B	
480-18577-7	EP-25 (8-12)	Total/NA	Solid	3550B	
480-18577-8	EP-28 (4-7)	Total/NA	Solid	3550B	
LCS 480-59746/2-A	Lab Control Sample	Total/NA	Solid	3550B	
MB 480-59746/1-A	Method Blank	Total/NA	Solid	3550B	

### Analysis Batch: 59751

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-18577-1	EP-19 (0-4)	Total/NA	Solid	8082	59746
480-18577-2	EP-24 (0-4)	Total/NA	Solid	8082	59746
480-18577-3	EP-27 (0-4)	Total/NA	Solid	8082	59746
480-18577-4	EP-22 (0-4)	Total/NA	Solid	8082	59746
480-18577-4 MS	EP-22 (0-4)	Total/NA	Solid	8082	59746
480-18577-4 MSD	EP-22 (0-4)	Total/NA	Solid	8082	59746
480-18577-5	EP-26 (0-4)	Total/NA	Solid	8082	59746

# QC Association Summary

Client: Turnkey Environmental Restoration, LLC  
 Project/Site: Turnkey - 600 River Rd site

TestAmerica Job ID: 480-18577-1

## GC Semi VOA (Continued)

### Analysis Batch: 59751 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-18577-6	EP-21 (3-7)	Total/NA	Solid	8082	59746
480-18577-7	EP-25 (8-12)	Total/NA	Solid	8082	59746
480-18577-8	EP-28 (4-7)	Total/NA	Solid	8082	59746
LCS 480-59746/2-A	Lab Control Sample	Total/NA	Solid	8082	59746
MB 480-59746/1-A	Method Blank	Total/NA	Solid	8082	59746

## Metals

### Prep Batch: 59816

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-18577-1	EP-19 (0-4)	Total/NA	Solid	3050B	
480-18577-2	EP-24 (0-4)	Total/NA	Solid	3050B	
480-18577-3	EP-27 (0-4)	Total/NA	Solid	3050B	
480-18577-3 MS	EP-27 (0-4)	Total/NA	Solid	3050B	
480-18577-3 MSD	EP-27 (0-4)	Total/NA	Solid	3050B	
480-18577-4	EP-22 (0-4)	Total/NA	Solid	3050B	
480-18577-5	EP-26 (0-4)	Total/NA	Solid	3050B	
480-18577-6	EP-21 (3-7)	Total/NA	Solid	3050B	
480-18577-7	EP-25 (8-12)	Total/NA	Solid	3050B	
480-18577-8	EP-28 (4-7)	Total/NA	Solid	3050B	
LCSSRM 480-59816/2-A	Lab Control Sample	Total/NA	Solid	3050B	
MB 480-59816/1-A	Method Blank	Total/NA	Solid	3050B	

### Prep Batch: 59966

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-18577-1	EP-19 (0-4)	Total/NA	Solid	7471A	
480-18577-2	EP-24 (0-4)	Total/NA	Solid	7471A	
480-18577-3	EP-27 (0-4)	Total/NA	Solid	7471A	
480-18577-4	EP-22 (0-4)	Total/NA	Solid	7471A	
480-18577-5	EP-26 (0-4)	Total/NA	Solid	7471A	
480-18577-6	EP-21 (3-7)	Total/NA	Solid	7471A	
480-18577-7	EP-25 (8-12)	Total/NA	Solid	7471A	
480-18577-8	EP-28 (4-7)	Total/NA	Solid	7471A	
LCSSRM 480-59966/2-A	Lab Control Sample	Total/NA	Solid	7471A	
MB 480-59966/1-A	Method Blank	Total/NA	Solid	7471A	

### Analysis Batch: 60054

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-18577-1	EP-19 (0-4)	Total/NA	Solid	7471A	59966
480-18577-2	EP-24 (0-4)	Total/NA	Solid	7471A	59966
480-18577-3	EP-27 (0-4)	Total/NA	Solid	7471A	59966
480-18577-4	EP-22 (0-4)	Total/NA	Solid	7471A	59966
480-18577-5	EP-26 (0-4)	Total/NA	Solid	7471A	59966
480-18577-6	EP-21 (3-7)	Total/NA	Solid	7471A	59966
480-18577-7	EP-25 (8-12)	Total/NA	Solid	7471A	59966
480-18577-8	EP-28 (4-7)	Total/NA	Solid	7471A	59966
LCSSRM 480-59966/2-A	Lab Control Sample	Total/NA	Solid	7471A	59966
MB 480-59966/1-A	Method Blank	Total/NA	Solid	7471A	59966

### Analysis Batch: 60168

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-18577-1	EP-19 (0-4)	Total/NA	Solid	6010B	59816

# QC Association Summary

Client: Turnkey Environmental Restoration, LLC  
 Project/Site: Turnkey - 600 River Rd site

TestAmerica Job ID: 480-18577-1

## Metals (Continued)

### Analysis Batch: 60168 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-18577-2	EP-24 (0-4)	Total/NA	Solid	6010B	59816
480-18577-3	EP-27 (0-4)	Total/NA	Solid	6010B	59816
480-18577-3 MS	EP-27 (0-4)	Total/NA	Solid	6010B	59816
480-18577-3 MSD	EP-27 (0-4)	Total/NA	Solid	6010B	59816
480-18577-4	EP-22 (0-4)	Total/NA	Solid	6010B	59816
480-18577-5	EP-26 (0-4)	Total/NA	Solid	6010B	59816
480-18577-6	EP-21 (3-7)	Total/NA	Solid	6010B	59816
480-18577-7	EP-25 (8-12)	Total/NA	Solid	6010B	59816
480-18577-8	EP-28 (4-7)	Total/NA	Solid	6010B	59816
LCSSRM 480-59816/2-A	Lab Control Sample	Total/NA	Solid	6010B	59816
MB 480-59816/1-A	Method Blank	Total/NA	Solid	6010B	59816

## General Chemistry

### Analysis Batch: 59760

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-18577-1	EP-19 (0-4)	Total/NA	Solid	Moisture	
480-18577-2	EP-24 (0-4)	Total/NA	Solid	Moisture	
480-18577-3	EP-27 (0-4)	Total/NA	Solid	Moisture	
480-18577-4	EP-22 (0-4)	Total/NA	Solid	Moisture	
480-18577-5	EP-26 (0-4)	Total/NA	Solid	Moisture	
480-18577-6	EP-21 (3-7)	Total/NA	Solid	Moisture	
480-18577-7	EP-25 (8-12)	Total/NA	Solid	Moisture	
480-18577-8	EP-28 (4-7)	Total/NA	Solid	Moisture	

## Lab Chronicle

Client: Turnkey Environmental Restoration, LLC  
 Project/Site: Turnkey - 600 River Rd site

TestAmerica Job ID: 480-18577-1

### Client Sample ID: EP-19 (0-4)

Date Collected: 04/12/12 12:15

Date Received: 04/13/12 09:00

### Lab Sample ID: 480-18577-1

Matrix: Solid  
 Percent Solids: 85.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550B			61306	04/24/12 14:08	KB	TAL BUF
Total/NA	Analysis	8270C		1	61485	04/26/12 00:35	RMM	TAL BUF
Total/NA	Prep	3550B			59746	04/16/12 09:22	CM	TAL BUF
Total/NA	Analysis	8082		1	59751	04/16/12 16:50	JM	TAL BUF
Total/NA	Prep	7471A			59966	04/17/12 09:30	JRK	TAL BUF
Total/NA	Analysis	7471A		1	60054	04/17/12 13:47	JRK	TAL BUF
Total/NA	Prep	3050B			59816	04/16/12 14:45	SS	TAL BUF
Total/NA	Analysis	6010B		1	60168	04/17/12 20:49	LH	TAL BUF
Total/NA	Analysis	Moisture		1	59760	04/16/12 10:28	ZR	TAL BUF

### Client Sample ID: EP-24 (0-4)

Date Collected: 04/12/12 11:40

Date Received: 04/13/12 09:00

### Lab Sample ID: 480-18577-2

Matrix: Solid  
 Percent Solids: 88.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550B			61306	04/24/12 14:08	KB	TAL BUF
Total/NA	Analysis	8270C		1	61485	04/26/12 00:59	RMM	TAL BUF
Total/NA	Prep	3550B			59746	04/16/12 09:22	CM	TAL BUF
Total/NA	Analysis	8082		1	59751	04/16/12 17:05	JM	TAL BUF
Total/NA	Prep	7471A			59966	04/17/12 09:30	JRK	TAL BUF
Total/NA	Analysis	7471A		1	60054	04/17/12 13:49	JRK	TAL BUF
Total/NA	Prep	3050B			59816	04/16/12 14:45	SS	TAL BUF
Total/NA	Analysis	6010B		1	60168	04/17/12 20:51	LH	TAL BUF
Total/NA	Analysis	Moisture		1	59760	04/16/12 10:28	ZR	TAL BUF

### Client Sample ID: EP-27 (0-4)

Date Collected: 04/13/12 13:24

Date Received: 04/13/12 09:00

### Lab Sample ID: 480-18577-3

Matrix: Solid  
 Percent Solids: 86.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550B			61306	04/24/12 14:08	KB	TAL BUF
Total/NA	Analysis	8270C		1	61485	04/26/12 01:22	RMM	TAL BUF
Total/NA	Prep	3550B			59746	04/16/12 09:22	CM	TAL BUF
Total/NA	Analysis	8082		1	59751	04/16/12 17:20	JM	TAL BUF
Total/NA	Prep	7471A			59966	04/17/12 09:30	JRK	TAL BUF
Total/NA	Analysis	7471A		1	60054	04/17/12 13:50	JRK	TAL BUF
Total/NA	Prep	3050B			59816	04/16/12 14:45	SS	TAL BUF
Total/NA	Analysis	6010B		1	60168	04/17/12 20:54	LH	TAL BUF
Total/NA	Analysis	Moisture		1	59760	04/16/12 10:28	ZR	TAL BUF

## Lab Chronicle

Client: Turnkey Environmental Restoration, LLC  
 Project/Site: Turnkey - 600 River Rd site

TestAmerica Job ID: 480-18577-1

### Client Sample ID: EP-22 (0-4)

Lab Sample ID: 480-18577-4

Date Collected: 04/13/12 13:11

Matrix: Solid

Date Received: 04/13/12 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	3550B			61306	04/24/12 14:08	KB	TAL BUF
Total/NA	Analysis	8270C		1	61485	04/26/12 01:46	RMM	TAL BUF
Total/NA	Prep	3550B			59746	04/16/12 09:22	CM	TAL BUF
Total/NA	Analysis	8082		1	59751	04/16/12 18:04	JM	TAL BUF
Total/NA	Prep	7471A			59966	04/17/12 09:30	JRK	TAL BUF
Total/NA	Analysis	7471A		1	60054	04/17/12 13:51	JRK	TAL BUF
Total/NA	Prep	3050B			59816	04/16/12 14:45	SS	TAL BUF
Total/NA	Analysis	6010B		1	60168	04/17/12 21:05	LH	TAL BUF
Total/NA	Analysis	Moisture		1	59760	04/16/12 10:28	ZR	TAL BUF

### Client Sample ID: EP-26 (0-4)

Lab Sample ID: 480-18577-5

Date Collected: 04/13/12 13:30

Matrix: Solid

Date Received: 04/13/12 09:00

Percent Solids: 83.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550B			61306	04/24/12 14:08	KB	TAL BUF
Total/NA	Analysis	8270C		1	61485	04/26/12 02:10	RMM	TAL BUF
Total/NA	Prep	3550B			59746	04/16/12 09:22	CM	TAL BUF
Total/NA	Analysis	8082		1	59751	04/16/12 18:49	JM	TAL BUF
Total/NA	Prep	7471A			59966	04/17/12 09:30	JRK	TAL BUF
Total/NA	Analysis	7471A		1	60054	04/17/12 13:52	JRK	TAL BUF
Total/NA	Prep	3050B			59816	04/16/12 14:45	SS	TAL BUF
Total/NA	Analysis	6010B		1	60168	04/17/12 21:08	LH	TAL BUF
Total/NA	Analysis	Moisture		1	59760	04/16/12 10:28	ZR	TAL BUF

### Client Sample ID: EP-21 (3-7)

Lab Sample ID: 480-18577-6

Date Collected: 04/12/12 12:10

Matrix: Solid

Date Received: 04/13/12 09:00

Percent Solids: 76.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550B			61306	04/24/12 14:08	KB	TAL BUF
Total/NA	Analysis	8270C		1	61485	04/26/12 02:33	RMM	TAL BUF
Total/NA	Prep	3550B			59746	04/16/12 09:22	CM	TAL BUF
Total/NA	Analysis	8082		1	59751	04/16/12 19:03	JM	TAL BUF
Total/NA	Prep	7471A			59966	04/17/12 09:30	JRK	TAL BUF
Total/NA	Analysis	7471A		1	60054	04/17/12 13:53	JRK	TAL BUF
Total/NA	Prep	3050B			59816	04/16/12 14:45	SS	TAL BUF
Total/NA	Analysis	6010B		1	60168	04/17/12 21:14	LH	TAL BUF
Total/NA	Analysis	Moisture		1	59760	04/16/12 10:28	ZR	TAL BUF

# Lab Chronicle

Client: Turnkey Environmental Restoration, LLC  
 Project/Site: Turnkey - 600 River Rd site

TestAmerica Job ID: 480-18577-1

**Client Sample ID: EP-25 (8-12)**

**Lab Sample ID: 480-18577-7**

Date Collected: 04/13/12 13:18

Matrix: Solid

Date Received: 04/13/12 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	3550B			61306	04/24/12 14:08	KB	TAL BUF
Total/NA	Analysis	8270C		1	61485	04/26/12 02:57	RMM	TAL BUF
Total/NA	Prep	3550B			59746	04/16/12 09:22	CM	TAL BUF
Total/NA	Analysis	8082		1	59751	04/16/12 19:18	JM	TAL BUF
Total/NA	Prep	7471A			59966	04/17/12 09:30	JRK	TAL BUF
Total/NA	Analysis	7471A		1	60054	04/17/12 13:55	JRK	TAL BUF
Total/NA	Prep	3050B			59816	04/16/12 14:45	SS	TAL BUF
Total/NA	Analysis	6010B		1	60168	04/17/12 21:17	LH	TAL BUF
Total/NA	Analysis	Moisture		1	59760	04/16/12 10:28	ZR	TAL BUF

**Client Sample ID: EP-28 (4-7)**

**Lab Sample ID: 480-18577-8**

Date Collected: 04/13/12 12:53

Matrix: Solid

Date Received: 04/13/12 09:00

Percent Solids: 76.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550B			61306	04/24/12 14:08	KB	TAL BUF
Total/NA	Analysis	8270C		1	61485	04/26/12 03:21	RMM	TAL BUF
Total/NA	Prep	3550B			59746	04/16/12 09:22	CM	TAL BUF
Total/NA	Analysis	8082		1	59751	04/16/12 19:33	JM	TAL BUF
Total/NA	Prep	7471A			59966	04/17/12 09:30	JRK	TAL BUF
Total/NA	Analysis	7471A		1	60054	04/17/12 13:56	JRK	TAL BUF
Total/NA	Prep	3050B			59816	04/16/12 14:45	SS	TAL BUF
Total/NA	Analysis	6010B		1	60168	04/17/12 21:19	LH	TAL BUF
Total/NA	Analysis	Moisture		1	59760	04/16/12 10:28	ZR	TAL BUF

**Laboratory References:**

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



# Certification Summary

Client: Turnkey Environmental Restoration, LLC  
 Project/Site: Turnkey - 600 River Rd site

TestAmerica Job ID: 480-18577-1

Laboratory	Authority	Program	EPA Region	Certification ID
TestAmerica Buffalo	Arkansas DEQ	State Program	6	88-0686
TestAmerica Buffalo	California	NELAC	9	1169CA
TestAmerica Buffalo	Connecticut	State Program	1	PH-0568
TestAmerica Buffalo	Florida	NELAC	4	E87672
TestAmerica Buffalo	Georgia	State Program	4	956
TestAmerica Buffalo	Georgia	State Program	4	N/A
TestAmerica Buffalo	Illinois	NELAC	5	100325 / 200003
TestAmerica Buffalo	Iowa	State Program	7	374
TestAmerica Buffalo	Kansas	NELAC	7	E-10187
TestAmerica Buffalo	Kentucky	State Program	4	90029
TestAmerica Buffalo	Kentucky (UST)	State Program	4	30
TestAmerica Buffalo	Louisiana	NELAC	6	02031
TestAmerica Buffalo	Maine	State Program	1	NY0044
TestAmerica Buffalo	Maryland	State Program	3	294
TestAmerica Buffalo	Massachusetts	State Program	1	M-NY044
TestAmerica Buffalo	Michigan	State Program	5	9937
TestAmerica Buffalo	Minnesota	NELAC	5	036-999-337
TestAmerica Buffalo	New Hampshire	NELAC	1	2337
TestAmerica Buffalo	New Hampshire	NELAC	1	68-00281
TestAmerica Buffalo	New Jersey	NELAC	2	NY455
TestAmerica Buffalo	New York	NELAC	2	10026
TestAmerica Buffalo	North Dakota	State Program	8	R-176
TestAmerica Buffalo	Oklahoma	State Program	6	9421
TestAmerica Buffalo	Oregon	NELAC	10	NY200003
TestAmerica Buffalo	Pennsylvania	NELAC	3	68-00281
TestAmerica Buffalo	Tennessee	State Program	4	TN02970
TestAmerica Buffalo	Texas	NELAC	6	T104704412-08-TX
TestAmerica Buffalo	USDA	Federal		P330-08-00242
TestAmerica Buffalo	Virginia	NELAC	3	460185
TestAmerica Buffalo	Virginia	State Program	3	278
TestAmerica Buffalo	Washington	State Program	10	C1677
TestAmerica Buffalo	West Virginia DEP	State Program	3	252
TestAmerica Buffalo	Wisconsin	State Program	5	998310390

Accreditation may not be offered or required for all methods and analytes reported in this package. Please contact your project manager for the laboratory's current list of certified methods and analytes.

# Method Summary

Client: Turnkey Environmental Restoration, LLC  
Project/Site: Turnkey - 600 River Rd site

TestAmerica Job ID: 480-18577-1

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

**Protocol References:**

EPA = US Environmental Protection Agency

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

**Laboratory References:**

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



# Sample Summary

Client: Turnkey Environmental Restoration, LLC  
Project/Site: Turnkey - 600 River Rd site

TestAmerica Job ID: 480-18577-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-18577-1	EP-19 (0-4)	Solid	04/12/12 12:15	04/13/12 09:00
480-18577-2	EP-24 (0-4)	Solid	04/12/12 11:40	04/13/12 09:00
480-18577-3	EP-27 (0-4)	Solid	04/13/12 13:24	04/13/12 09:00
480-18577-4	EP-22 (0-4)	Solid	04/13/12 13:11	04/13/12 09:00
480-18577-5	EP-26 (0-4)	Solid	04/13/12 13:30	04/13/12 09:00
480-18577-6	EP-21 (3-7)	Solid	04/12/12 12:10	04/13/12 09:00
480-18577-7	EP-25 (8-12)	Solid	04/13/12 13:18	04/13/12 09:00
480-18577-8	EP-28 (4-7)	Solid	04/13/12 12:53	04/13/12 09:00

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# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Temperature on Receipt \_\_\_\_\_  
 Drinking Water? Yes  No

## Chain of Custody Record

TAL-4124 (1007)

**Client:** Turnkey Environmental  
**Address:** 2558 Humbury Turnpike  
**City:** Luthyville, NY 14218  
**Project Name and Location (State):** 60 River Rd  
**Contract/Purchase Order/Quote No.:**

**Project Manager:** Nate Munk  
**Telephone Number (Area Code)/Fax Number:** (716) 856-0635  
**Site Contact:** T. Beckwith  
**Lab Contact:** B. Fish

**Chain of Custody Number:** 189833  
**Date:** 4/13/12  
**Page:** 0 of 1

**Analysis (Attach list if more space is needed):** TLR 5278  
 KRA METALS  
 PCBs

**Special Instructions/Conditions of Receipt:** ON HOLD, NO PCBs  
 ON HOLD, NO PCBs

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix			Containers & Preservatives					Analysis	Special Instructions/Conditions of Receipt	
			Air	Sed	Soil	Unpres.	H2SO4	HNO3	HCl	NaOH			ZnAc
EP-19 (0-4)	4/12/12	1215			X							X	
EP-24 (0-4)	4/12/12	1140			X							X	
EP-27 (0-4)	4/13/12	1324			X							X	
EP-22 (0-4)	4/13/12	1311			X							X	
EP-26 (0-4)	4/13/12	1330			X							X	
EP-21 (3-7)	4/12/12	1210			X							X	
EP-25 (8-12)	4/13/12	1315			X							X	
EP-28 (4-7)	4/13/12	1253			X							X	
EP-23 (0-4)	4/13/12	1300			X							X	
EP-20 (0-4)	4/12/12	1220			X							X	

**Possible Hazard Identification:**  
 Non-Hazard  Flammable  Skin Irritant  Poison B  Unknown

**Sample Disposal:**  
 Return To Client  Disposal By Lab  Archive For \_\_\_\_\_ Months  (A fee may be assessed if samples are retained longer than 1 month)

**Turn Around Time Required:**  
 24 Hours  48 Hours  7 Days  14 Days  21 Days  Other: STD

**1. Relinquished By:** [Signature] Date: 4/13/12 Time: 1335  
**2. Relinquished By:** [Signature] Date: 4/13/12 Time: 1435  
**3. Relinquished By:** [Signature] Date: \_\_\_\_\_ Time: \_\_\_\_\_

**Comments:** V.I.B.

DISTRIBUTION: WHITE - Returned to Client with Report; CANARY - Stays with the Sample; PINK - Field Copy



## Login Sample Receipt Checklist

Client: Turnkey Environmental Restoration, LLC

Job Number: 480-18577-1

**Login Number: 18577**

**List Source: TestAmerica Buffalo**

**List Number: 1**

**Creator: Robitaille, Zach L**

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	4.1 #1
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	TURNKEY
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	N/A	
Chlorine Residual checked.	N/A	

# APPENDIX D

ELECTRONIC COPY