LIMITED PHASE II
ENVIRONMENTAL SITE ASSESSMENT REPORT

BUFFALO SPEEDWAY EXTENSION PROJECT
HOUSTON, HARRIS COUNTY, TEXAS

WBS NO. N-000784-0001-3

PREPARED FOR:

CLR, INC.

BY:

BERG ♦ OLIVER ASSOCIATES, INC.
HOUSTON, TEXAS

REPORT NO: 8357YPT12
APRIL 2012
REVISED SEPTEMBER 2012

BERG ♦ OLIVER ASSOCIATES, INC.

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April 10, 2012
Revised June 6, 2012
Revised September 12, 2012

Mr. John Peyton, P. E.
CLR, Inc.
19530 FM 362
Waller, Texas 77484

Via email: *JohnPeyton@clri.com*

RE: Limited Phase II Environmental Site Assessment (ESA)
City of Houston
Buffalo Speedway Extension Project
From West Airport Boulevard to Holmes Road
Houston, Harris County, Texas
WBS No. N-000784-0001-3
BOA Project No. 8357YPT12

Mr. Peyton,

EXECUTIVE SUMMARY

Berg♦Oliver Associates, Inc. is pleased to present our report summarizing the findings and conclusions of the Limited Phase II ESA conducted on the Buffalo Speedway Extension Project in Houston, Harris County, Texas. Based on field observations and soil analytical results, the following is reported:

- Environmental conditions were not discovered or encountered that would be an environmental concern to construction workers with the exception of air monitoring related to confined space criteria for construction worker safety which should be conducted according to City of Houston Specification Section 02120 in the area of Well C, Well B-1 and Well B-2.
- No detections that exceed the Texas Commission on Environmental Quality (TCEQ), Texas Risk Reduction Program (TRRP) Total Soil Combined ($^{Tot}Soil_{Comb}$) protective concentration levels (PCLs) were reported.
- The Potentially Petroleum Contaminated Areas (PPCA) at Well C, Well B-1, Well B-2 and the metals affected areas Pit 1-A, Well A, and Well G-2 which exceed the Texas Specific Soil Background Concentrations and Groundwater Soil Ingestion ($^{GW}Soil_{Ing}$) PCLs require Special Handling Practices. Soil in these areas should be handled according to the city of Houston Specification Section 02105.
- Groundwater was not encountered at the project.
- Based on the soil laboratory analytical results of the Supplemental Phase II ESA, without having conducted waste characterization/profiling for disposal purposes, it

appears the soil in the impacted areas should be classified as Texas Class II Non-Hazardous Waste and further defined as city of Houston Category I Soil.

- Station locations for the identified PPCA are from; Well B-1 (157+00 to 158+50), Well B-2 (158+50 to 160+00), and Well C (147+25 to 149+25). Station locations for the identified COC are from; Well A (178+50 to 180+50), Pit 1-A (3+37 to 5+37), and Well G (724+00 to 726+00).

If you have any questions or comments, please contact me at 281-589-0898.

Regards,

Ben Price, P.G.
Vice President/Senior Project Manager

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1.0 INTRODUCTION

The project is identified as the Buffalo Speedway Extension Project. Select areas of the project alignment were investigated due to the potential to encounter environmental conditions associated with historic oil and gas activity. The project area is situated to the southwest of downtown Houston, Texas and is located south of Holmes Road, north of West Orem Drive, and west of the Wildcat Golf Course. FIGURES 1 and 2.

2.0 SCOPE-OF-WORK

Berg♦Oliver Associates, Inc. (BOA) was retained by CLR, Inc. to evaluate whether the project alignment has been affected by the presence of former oil and gas exploration and production activities. Sampling and analyses was conducted to determine whether contamination is present at the project alignment and the concentration of the contaminant(s) in the soil, if any. The following Phase II Assessment activities were performed:

- Conduct an investigation of activities with the potential for environmental conditions as identified in a previously conducted Phase I ESA for the project alignment and identified as follows:
  - Historic Oil and Gas Well Sites- a total of seven former oil and gas well sites and two associated reserve pits were identified as being on or adjoining the project alignment.
- Notify potentially affected parties by the completion of a OneCall. This notifies pipeline companies and utilities that may have subsurface equipment at the project area and initiates the identification of their locations.
- Complete fifteen soil borings for the project at the above-mentioned locations along the project alignment.
- Conduct continuous field screening of soil cores at 2.0-foot intervals utilizing a photo-ionization detector (PID) calibrated to 100 ppm isobutylene standard. Soil samples are submitted for laboratory analytical testing based upon field screening and field observations (visual and olfactory). If no PID readings area encountered at least one default soil sample from each soil boring will be collected and submitted for laboratory testing.
- If groundwater is encountered, the client will be contacted immediately for instruction.
- Soil samples were analyzed for benzene, toluene, ethyl-benzene and total xylenes (BTEX), total petroleum hydrocarbons (TPH), RCRA 8 metals, chlorides, and pH.
- Detail site assessment activities, review laboratory analytical results and present the results and conclusions in a Limited Phase II ESA investigation report.

3.0 PHASE II ASSESSMENT ACTIVITIES

On March 25, 2012 BOA completed thirteen of fifteen proposed soil borings, at select locations along the project alignment. One well location (Well B), with two proposed soil borings (Well B-1 and Well B-2) was flooded by rain events and was unable to be accessed or sampled. Therefore, as a conservative measure, soil in the area of Well B-1 and Well B-2 will be considered as potentially impacted by petroleum hydrocarbons (PPCA). The successfully accessed soil borings were completed to a depth of 12 feet below ground surface (bgs). During the Phase II ESA activities, groundwater was not encountered, and therefore a groundwater sample was not collected.

Soil borings were advanced utilizing direct push technologies inclusive of a truck-mounted hydraulically-driven sampling device consisting of a 2-inch diameter, 4-foot long stainless steel sampling spoon. Soil samples were continuously collected at 2-foot intervals and field screened utilizing a photo-ionization detector (PID). PID field screening was non-detect (0.0 ppm) on all intervals. Geologic stratigraphy (lithology) and subsurface characteristics were recorded by the field geologist. FIGURE 3 provides investigated site details and soil boring locations. Soil boring logs are presented in APPENDIX A.

Prior to the initial soil boring and between each 4-foot advancement, all sampling devices were thoroughly cleaned and decontaminated using a hospital grade detergent, water and distilled water. Soil samples were obtained by personnel utilizing appropriate sampling tools and wearing clean, disposable gloves. Disposable nitrile gloves were changed between each sample collection. Two discrete (grab) samples were collected from each 2-foot interval of the soil borings. One sample was placed in a disposable bag for head space screening. The second soil sample was placed in two separate 4-ounce sterile glass containers equipped with a Teflon-lined lids furnished by the testing laboratory. Each container was filled to capacity with soil to limit the amount of headspace present. All samples were labeled in the field and stored at approximately 4°C prior to submission to Accutest Laboratories in Houston, Texas for laboratory analyses. Chain-of-custody documentation accompanied the samples in accordance with standard quality assurance and quality control measures.

3.1 SOIL SAMPLING

Thirteen (13) soil borings, were advanced at six (6) oil and gas well locations (Well A, Well C, Well D, Well E, Well F, Well G) and two (2) reserve pits (Pit 1 and Pit 2) along the proposed Buffalo Speedway alignment. The soil sample interval exhibiting the greatest PID reading from each soil boring, if any, was proposed to be submitted for laboratory analyses; and one soil sample was submitted from each soil boring. However, PID readings of the soil cores were non-detect. Due to the lack of field screening detections encountered in the soil boring, default soil samples were submitted.

The property is located at the northern end of the current dead end of Buffalo Speedway, which is north of West Orem Drive and south of Holmes Road. The property is currently undeveloped and overgrown.

3.2 GROUNDWATER SAMPLING

If groundwater was encountered, the client was to be contacted for instruction. During the Phase II ESA, no groundwater was encountered in any soil boring at any depth.

4.0 REGULATORY FRAMEWORK

The Texas Commission on Environmental Quality (TCEQ) administers the Environmental Protection Agency (EPA) regulations and enforcement in Texas. Additionally, it has established its own standards for environmental compliance. The Texas Risk Reduction Program (TRRP) administered by TCEQ, as provided for in 30 TAC Chapter 350, addresses levels of regulated compounds and allowable levels of such contaminants to protect human health, safety, and the environment. The TCEQ TRRP applies to closures, corrective actions, and remediation efforts subject to the jurisdiction of the TCEQ. The TRRP, whether residential or commercial, contains provisions for Remedy Standard A (no physical controls required) or Remedy Standard B (physical controls required). Implementation of Remedy Standard A or Remedy Standard B is a tiered process, as described in general terms below:

- Tier 1 is a risk-based analysis to derive non site-specific protective concentration limits (PCLs) for complete or reasonably anticipated to be complete exposure pathways. Tier 1 is based on default exposure factors and affected property parameters, and assumes exposure occurs at, above, or below the source area (i.e., no lateral transport) (TCEQ Subchapter D Section 350.75 (b)).
- Tier 2 is a risk-based analysis to derive site-specific PCLs for complete or reasonably anticipated to be completed exposure pathways utilizing site-specific exposure factors, as allowable, and/or affected property parameters and Tier 1 equations. Tier 2 PCLs may also include lateral transport considerations (TCEQ, Subchapter D Section 350.75 (c)).
- Tier 3 is a risk-based analysis to derive site-specific PCLs for complete or reasonably anticipated to be completed exposure pathways. Tier 3 PCLs are based on measured natural attenuation factors and/or natural attenuation factor models/equations other than those provided for Tier 1 or 2; and may also include site-specific exposure factors, as allowable, and/or affected property parameters (TCEQ, Subchapter D Section 350.75 (d)).

The below provided soil PCLs are concentrations which are protective of human health and the environment:

* $^{GW}Soil_{Ing}$ * Groundwater Soil Ingestion ($^{GW}Soil_{Ing}$) is the groundwater protection standard for either residential or commercial use. Concentration in soil is assumed protective of groundwater considering cross-media contamination of groundwater from contaminated

soil. This is the critical PCL for special handling practices of the soil for the project.

* $^{Tot}Soil_{Comb}$ * The Total Soil Combined ($^{Tot}Soil_{Comb}$) PCLs are a combined exposure standard for residential use. The PCL considers cross-media contamination of human ingestion, inhalation and dermal pathways. This is the critical PCL for construction worker exposure concentrations.

The TCEQ TRRP contains published standards for TPH in soils. Elevated TPH concentrations are an indicator that additional analyses should be conducted. Initially, soil samples are analyzed by Texas Method 1005. If any of the concentrations exceed the C6-C12 or >C12-28 carbon ranges, the soil sample is then typically analyzed for speciated hydrocarbons by TCEQ Texas Method 1006. The resulting TPH 1006 concentrations are compared to Tier 1 PCLs based upon the concentrations of aliphatic and/or aromatic hydrocarbons present in the carbon range from C6 to C35. *BTEX concentrations will be the predominant environmental and exposure consideration of this project. Areas with soil results exceeding the $^{Tot}Soil_{Comb}$ PCLs will be areas of environmental concern for the project.*

5.0 SOIL LABORATORY ANALYTICAL RESULTS

A total of thirteen (13) soil samples were collected from the thirteen (13) soil borings and were submitted to a certified laboratory for analyses. The soil samples were analyzed for total petroleum hydrocarbons (TPH) and benzene, toluene, ethyl-benzene, total xylenes (BTEX), RCRA 8 metals, chlorides, and pH. The following details the laboratory methodology:

5.1 LABORATORY ANALYTICAL METHODS

Benzene, toluene, ethylbenzene, and total xylene (BTEX) and/or VOCs by EPA Method SW-846 8260: This laboratory analysis employs a gas chromatograph (GC) equipped with a Mass Spectrometer (MS) detector to detect and quantify certain regulated, volatile organic compounds in a soil or water sample. Compounds on this list include certain chlorinated solvents used in dry cleaning and printing processes, refined petroleum products such as gasoline and diesel, and others. This method can also be used to test for BTEX compounds, which are a portion of the entire VOA list. These compounds are common components of most formulated gasolines, and their presence is a reliable indicator that a gasoline release has occurred.

Total Petroleum Hydrocarbons (TPH) by TCEQ Method 1005: This laboratory analysis utilizes a GC equipped with a flame ionization detector (FID) to quantify levels of petroleum compounds or derivatives in the range from C6 to C28, in a soil or groundwater medium. Results are reported in two to three distinct

ranges, from C6 to C12, >C12 to C28 and >C28 to C35. This allows some interpretation as to the possible source of the release, based upon the indicated carbon range. The analysis is designed to determine if TPH is present, and to quantify the level of petroleum hydrocarbons. This analysis is especially useful as a broad category procedure, and may indicate additional testing for the specific hazardous or toxic constituents which may be present and contribute to the TPH levels assessed. Since many petroleum hydrocarbons are known to be hazardous or toxic, high levels of TPH require additional testing of the sample area.

Chloride Anion by Ion Chromatography by EPA Method 300.0: This laboratory test is designed to detect levels of Chloride Anions in the soil or groundwater medium tested. It is especially useful in determining potential oilfield contamination since, although not considered an environmental hazard in reasonable amounts, it may be associated with other contaminants or pollutants. High chloride readings may indicate brine production in older oil and gas wells. The brine (salt water) is separated and disposed, often in reserve pits or by use of a salt water injection well, and thus indicates the possibility of a disposal area. The test is generally used in conjunction with other selected tests dealing with oil and gas production activities.

RCRA Metals by SW-846 Method 6010: This method employs inductively coupled plasma to detect and quantify metals concentrations in a soil or groundwater matrix. Sample identification and quantitation is based upon retention time and the emissions count. The concentrations can then be compared to published EPA, state, or other appropriate guidelines. Many metals occur naturally at concentrations above those published in regulatory guidelines. As a consequence, metals concentrations are frequently compared to naturally occurring background concentrations for a site, median background concentrations for a state, or other appropriate site-specific data.

5.2 SOIL LABORATORY ANALYTICAL RESULTS

Soil samples, Pit-1(a), Pit-1(b), Pit-1(c), Pit-2(a), Pit-2(b), Pit-2(c), Well A, Well C, Well D, Well E, Well F, Well G(1),Well G(2), were submitted for TPH/BTEX, RCRA 8, pH, and chlorides analyses. The resulting laboratory analytical data was compared to the TCEQ TRRP Total Soil Combined ($^{Tot}Soil_{Comb}$) Protective Concentration Limits (PCLs) and Groundwater Soil Ingestion ($^{GW}Soil_{Ing}$) PCLs.

5.2.1 LAB ANALYTICAL RESULTS (2 Reserve Pits and 6 Oil and Gas Wells)

Thirteen (13) soil samples were submitted and analyzed for the assessment.

BTEX:

The following was reported for BTEX constituents for the soil samples: All constituents were reported to be below detection limits (non-detect).

TPH:

The following was reported for the hydrocarbon constituents for the soil samples:

TPH concentrations were determined to be non-detect at all soil boring locations with the exception of Well C (2-4'). However, neither of the two carbon ranges for Well C exceed the TCEQ TRRP $^{Tot}Soil_{Comb}$ PCLs and are not a health concern to construction workers. Additionally, Well C soil laboratory analytical concentrations do exceed the C-28 to C-35 carbon range for the TCEQ TRRP $^{GW}Soil_{Ing}$ PCLs.

A conservative assumption is being made that Well B-1 and Well B-2, which were and remain inundated by ponded rainfall and were inaccessible for drilling and sampling, are also petroleum hydrocarbon impacted to the same degree as Well C above.

RCRA 8 Metals:

The following was reported for the RCRA 8 metals constituents for the soil samples:

Metals concentrations were determined to be below TCEQ TRRP $^{Tot}Soil_{Comb}$ PCLs at all soil boring locations and are not a health concern to construction workers. However, three (3) metals detections were reported to exceed the Texas Specific Soil Background Concentrations and Groundwater Soil Ingestion ($^{GW}Soil_{Ing}$) PCLs and are follows. Soil boring sample Pit 1-A (2-4') was reported as having a barium concentration of 656 mg/kg. Soil boring sample Well A (2-4') was reported as having a lead concentration of 407 mg/kg. Soil boring sample Well G (2) (2-4') was reported as having a barium concentration of 621 mg/kg.

Chlorides and pH:

The following was reported for chlorides and pH in the soil samples:

Chlorides concentrations for the samples ranged from a low of 12.3 mg/kg to a high of 225 mg/kg. This chloride range is not considered an environmental condition.

PH concentrations for the samples ranged from a low of 6.75 to a high of 8.09. This pH range is not considered an environmental condition.

A copy of the laboratory analytical results is presented in APPENDIX B. Photographs of some of the field activities are presented in APPENDIX C.

6.0 GROUNDWATER LABORATORY ANALYTICAL RESULTS.

Groundwater was not encountered at any soil boring location, therefore no groundwater sampling was conducted.

7.0 AIR MONITORING/WASTE MANAGEMENT PRACTICES

Based on the results of the Phase II ESA, air monitoring is not warranted at the project unless excavation or trenching is anticipated in the area of Well C, Well B-1, or Well B-2.

Based on the results of the Phase II ESA, special handling practices of the soil is warranted at the Potentially Petroleum Contaminated (PPC) areas at Well C, Well B-1, Well B-2 and at the heavy metals impacted areas Pit 1 (A), Well A, and Well G (2) which exceed the Texas Specific Soil Background Concentrations and Groundwater Soil Ingestion ($^{GW}Soil_{Ing}$) PCLs.

8.0 CONCLUSIONS

The purpose of the assessment was to determine the absence or presence and concentration levels of petroleum hydrocarbons, BTEX, RCRA 8 Metals, chlorides, and pH in the soil. Phase II ESA activities were conducted in accordance with Berg♦Oliver Associates, Inc. proposal/work plan and in accordance with the ASTM 1903 Standard Practice and the City of Houston criteria. The following was indicated by the laboratory analytical results:

Soil Analytical:

No BTEX constituents were detected in soil samples. No TPH concentrations exceed the TCEQ TRRP exposure pathways $^{GW}Soil_{Ing}$ and/or $^{Tot}Soil_{Comb}$ PCLs for a 0.5-acre residential source area with the exception of Well C (2'-4'). Well C soil laboratory analytical concentrations do exceed the C-28 to C-35 carbon range for the TCEQ TRRP $^{GW}Soil_{Ing}$ PCLs.

Metals concentrations were determined to be below TCEQ TRRP $^{Tot}Soil_{Comb}$ PCLs at all soil boring locations and are not a health concern to construction workers. However, three (3) metals detections were reported to exceed the Texas Specific Soil Background Concentrations and are follows. Soil boring sample Pit 1-A (2'-4') was reported as having a barium concentration of 656 mg/kg. Soil boring sample Well A (2'-4') was reported as having a lead concentration of 407 mg/kg. Soil boring sample Well G-2 (2'-4') was reported as having a barium concentration of 621 mg/kg. The PPCA and COC Location Map is identified as Figure 4.

Chlorides and pH concentration levels in the soil were reported to be in the normal range and are not considered to be an environmental concern.

9.0 RECOMMENDATIONS

Based on the laboratory analytical results and field observations of the Limited Phase II Environmental Site Assessment of the Buffalo Speedway Extension Project in Houston, Harris County, Texas, the following is noted:

- Environmental conditions were not discovered or encountered that would be an environmental concern to construction workers with the exception of air monitoring related to confined space criteria for construction worker safety which should be conducted according to City of Houston Specification Section 02120 in the area of Well C, Well B-1, and Well B-2.
- The Potentially Petroleum Contaminated (PPC) areas at Well C, Well B-1, Well B-2 and the heavy metals impacted areas Pit 1-A, Well A, and Well G-2 which exceed the Texas Specific Soil Background Concentrations and Groundwater Soil Ingestion ($^{GW}Soil_{Ing}$) PCLs require Special Handling Practices. Soil in these areas should be handled according to the city of Houston Specification Section 02105.
- Based on the soil laboratory analytical results of the Supplemental Phase II ESA, without having conducted waste characterization/profiling for disposal purposes, it appears the soil in the impacted areas should be handled and classified as Texas Class II Non-Hazardous Waste and further defined as city of Houston Category I Soil.

FIGURES

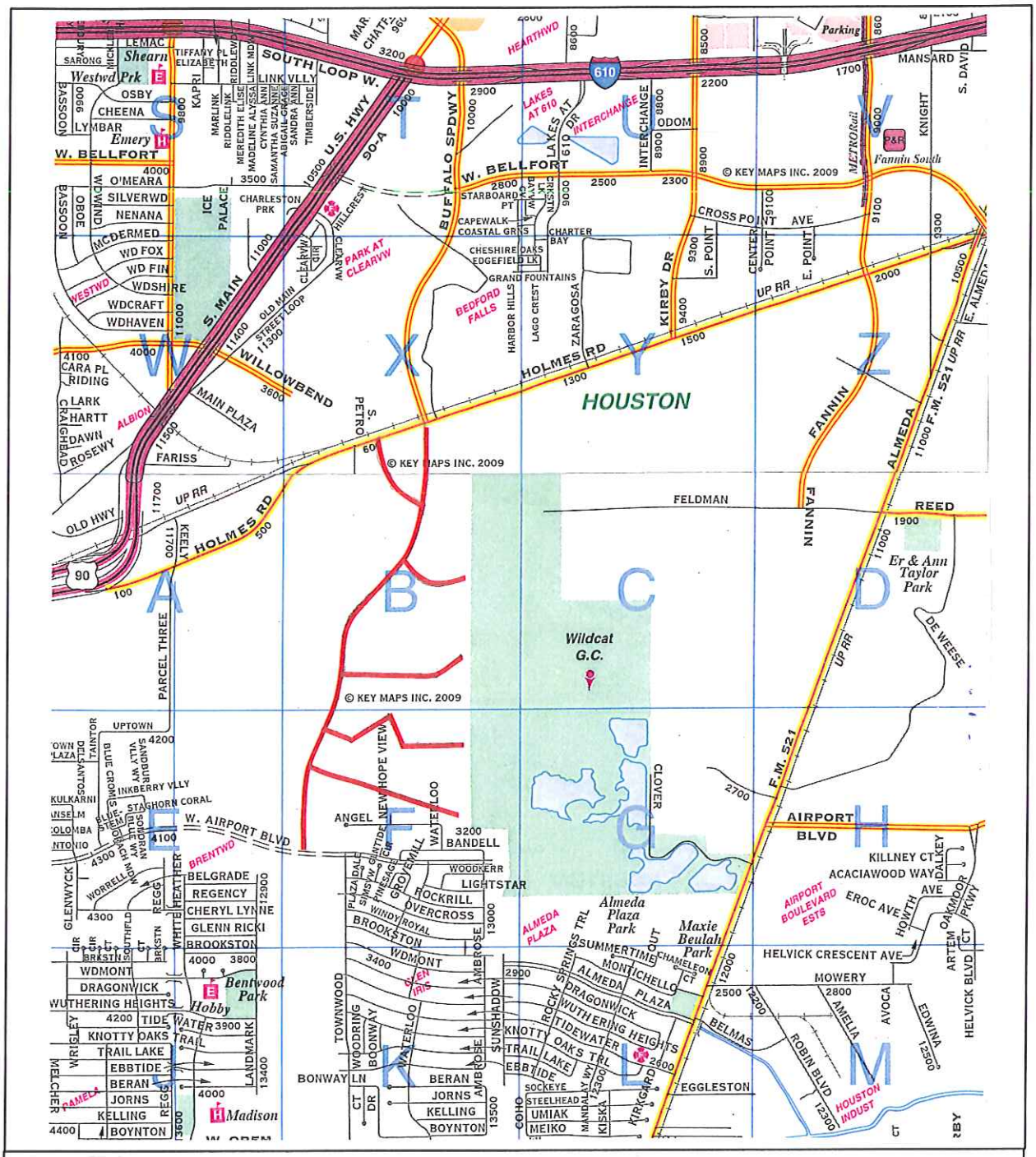

FIGURE 1

HARRIS COUNTY KEY MAP

PAGE 532 AND 572

BUFFALO SPEEDWAY EXTENSION PROJECT

APPROXIMATE SCALE 1" = 1/2 MILE = 2,640'

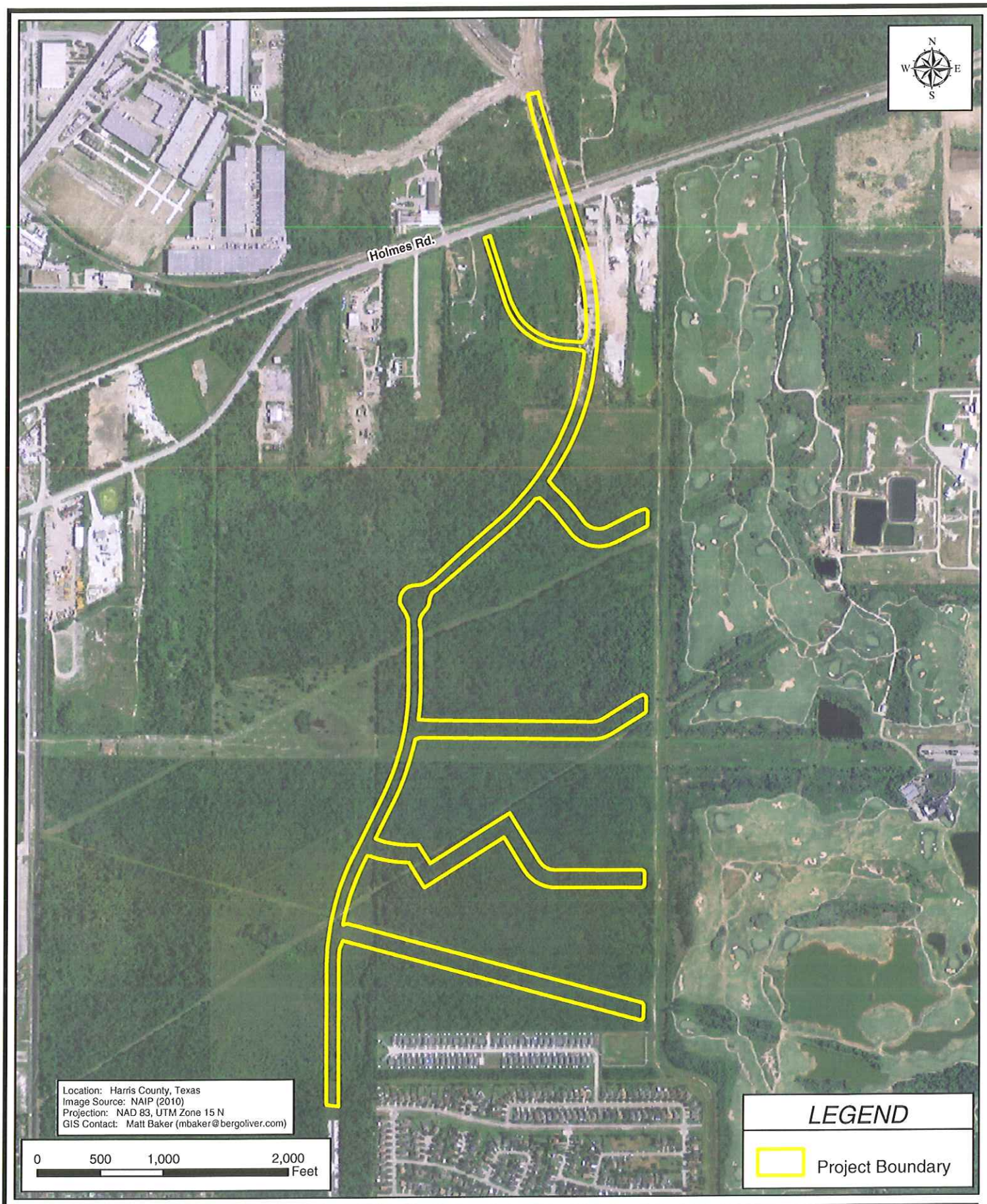

FIGURE 2

BUFFALO SPEEDWAY EXTENSION PROJECT
ALIGNMENT LOCATION MAP

Project #: 8357y
For: CLR, Inc. on behalf of City of Houston
Location: Proposed Buffalo Speedway Extension
Harris County, Texas

REVISIONS
April 3, 2012 by MDB

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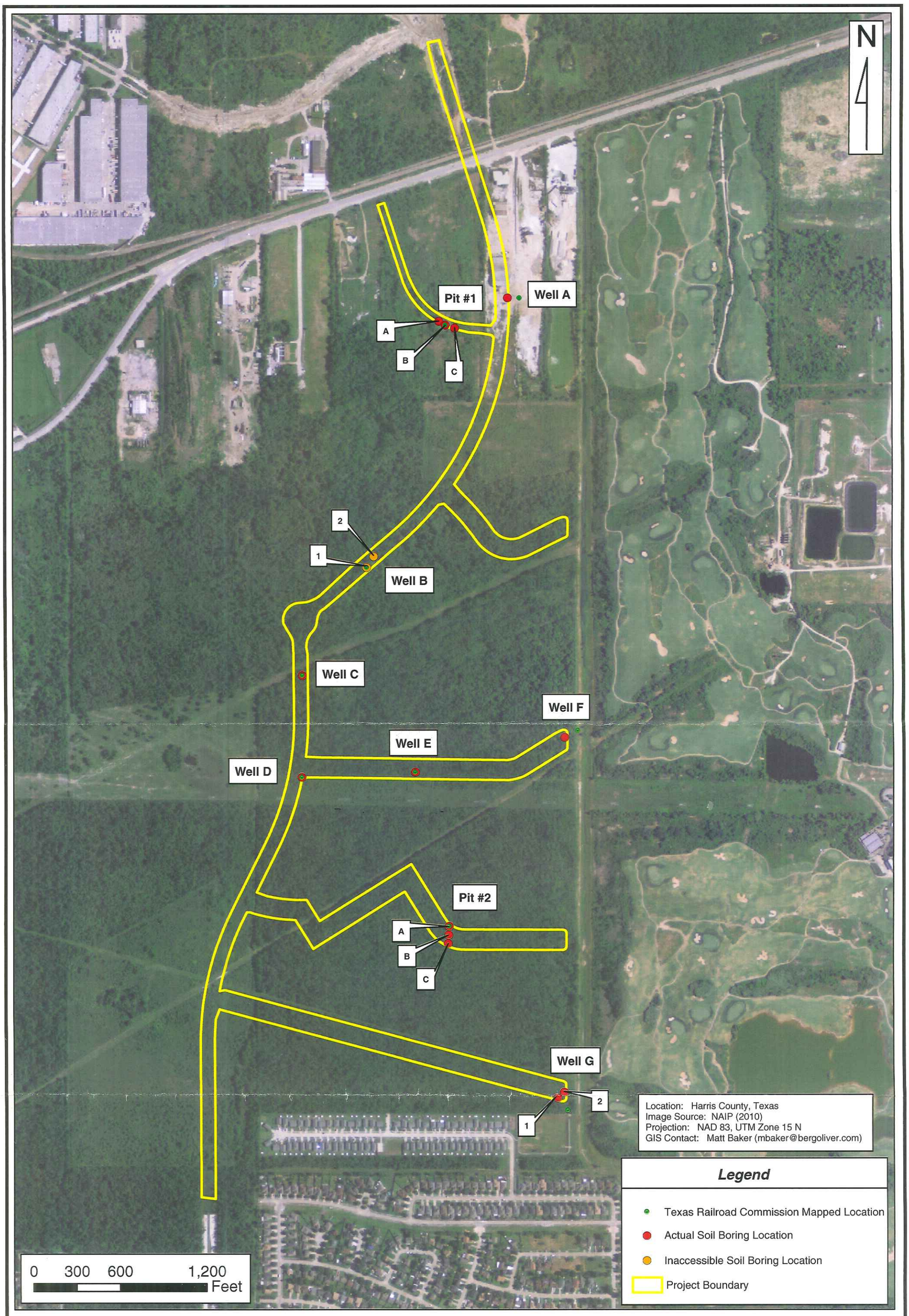

FIGURE 3

SOIL BORING LOCATION MAP

Project #: 8357y
For: CLR, Inc. on behalf of City of Houston
Location: Proposed Buffalo Speedway Extension
Harris County, Texas

REVISIONS
April 3, 2012 by MDB

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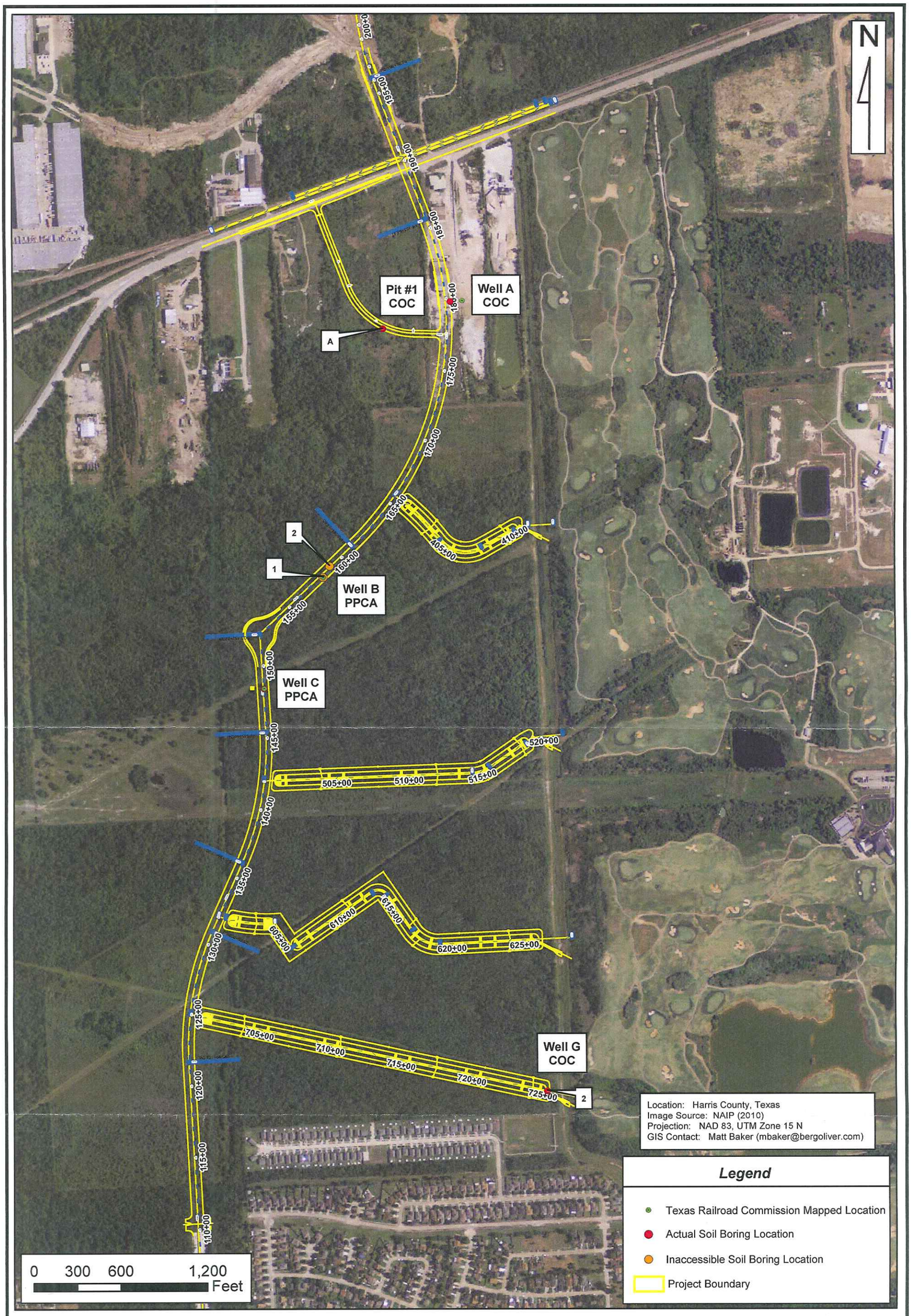

FIGURE 4

PPCA AND COC LOCATION MAP

Project #: 8357γ
For: CLR, Inc. on behalf of City of Houston
Location: Proposed Buffalo Speedway Extension
Harris County, Texas

REVISIONS
April 3, 2012 by MDB

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APPENDIX A

Soil Boring Logs

PROJECT NO:	8357YPT12	☒ BOREHOLE	☐ MONITOR WELL
SITE NAME:	Buffalo Speedway Extension Project	BORING NUMBER : Pit-1(A)	TEMP. WELL NUMBER :
FACILITY ADDRESS:	Not Applicable		
DRILLING COMPANY / METHOD / RIG:	Alpine Services/Tractor-Mounted Hydraulically-Driven Push Probe		
DRILLER:	Isidro	**DATE:**	3/25/2012
LOGGED BY:	B. Price	**TOP OF CASING ELEVATION:**	N/Appl.

DEPTH	PID	SAMPLE INTERVAL	STRATIGRAPHY	USCS	SOIL DESCRIPTION AND COMMENT (CLASSIFICATION, GRAIN SIZE, COLOR, MOISTURE, ODOR, OTHER)	NOTES
			Ground Surface			
0	0.0	X		CH	Clay; Reddish-brown clay, fines, soft (0 to 4 feet bgs)	Pit-1(A) @ 2-4'; 14:17, 1-4 oz
	0.0					
5	0.0			CH	Clay; Gray clay, fines, soft, moist (4-6 feet bgs)	
	0.0					
	0.0			CH	Clay; Light gray clay, fines, soft, moist with abundant calcium carbonate concretions (6-12 feet bgs)	
10	0.0					
15					Total Depth = 12 ft	
20						
25						
30						
35						
40						
45						

FILTER SAND | BENTONITE SEAL | GROUT / CONCRETE SURFACE | ▼ WATER ENCOUNTERED

Berg ♦ Oliver Associates, Inc.

TOTAL DEPTH: 12'

SEAL MATERIAL: (TYPE/INTERVAL) Bentonite to surface

SURFACE COMPLETION: ☐ FLUSH W/CONCRETE ☐ RISER W/CONCRETE

SHEET 1 OF 1

PROJECT NO: 8357YPT12	☒ BOREHOLE ☐ MONITOR WELL
SITE NAME: Buffalo Speedway Extension Project	BORING NUMBER : Pit-1(B) TEMP. WELL NUMBER :
FACILITY ADDRESS: Not Applicable	
DRILLING COMPANY / METHOD / RIG: Alpine Services/Tractor-Mounted Hydraulically-Driven Push Probe	
DRILLER: Isidro	**DATE:** 3/25/2012
LOGGED BY: B. Price	**TOP OF CASING ELEVATION:** N/Appl.

DEPTH	PID	SAMPLE INTERVAL	STRATIGRAPHY (Ground Surface)	USCS	SOIL DESCRIPTION AND COMMENT (CLASSIFICATION, GRAIN SIZE, COLOR, MOISTURE, ODOR, OTHER)	NOTES
0	0.0			CH	Clay; Reddish-brown clay, fines, soft (0 to 4 feet bgs)	
	0.0					
5	0.0	X		CH	Clay; Gray clay, fines, soft, moist (4-6 feet bgs)	Pit-1(B) @ 4-6'; 14:40, 1-4 oz
	0.0					
10	0.0			CH	Clay; Light gray clay, fines, soft, moist with abundant calcium carbonate concretions (6-12 feet bgs)	
	0.0					
15					Total Depth = 12 ft	
20						
25						
30						
35						
40						
45						

FILTER SAND | BENTONITE SEAL | GROUT / CONCRETE SURFACE | ▼ WATER ENCOUNTERED

Berg ♦ Oliver Associates, Inc.

TOTAL DEPTH: 12'

SEAL MATERIAL: (TYPE/INTERVAL) Bentonite to surface

SURFACE COMPLETION: ☐ FLUSH W/CONCRETE ☐ RISER W/CONCRETE

SHEET 1 OF 1

PROJECT NO: 8357YPT12

SITE NAME: Buffalo Speedway Extension Project

☒ BOREHOLE ☐ MONITOR WELL

BORING NUMBER : Pit-1(C) TEMP. WELL NUMBER :

FACILITY ADDRESS: Not Applicable

DRILLING COMPANY / METHOD / RIG: Alpine Services/Tractor-Mounted Hydraulically-Driven Push Probe

DRILLER: Isidro **DATE:** 3/25/2012

LOGGED BY: B. Price **TOP OF CASING ELEVATION:** N/Appl.

DEPTH	PID	SAMPLE INTERVAL	STRATIGRAPHY (Ground Surface)	USCS	SOIL DESCRIPTION AND COMMENT (CLASSIFICATION, GRAIN SIZE, COLOR, MOISTURE, ODOR, OTHER)	NOTES
0	0.0			CH	Clay; Reddish-brown clay, fines, soft (0 to 4 feet bgs)	
	0.0					
5	0.0			CH	Clay; Gray clay, fines, soft, moist (4-6 feet bgs)	
	0.0	X				Pit-1(C) @ 6-8'; 15:15, 1-4 oz
	0.0			CH	Clay; Light gray clay, fines, soft, moist with abundant calcium carbonate concretions (6-12 feet bgs)	
10	0.0					
15					Total Depth = 12 ft	
20						
25						
30						
35						
40						
45						

FILTER SAND | BENTONITE SEAL | GROUT / CONCRETE SURFACE | ▼ WATER ENCOUNTERED

Berg ♦ Oliver Associates, Inc.

TOTAL DEPTH: 12'

SEAL MATERIAL: (TYPE/INTERVAL) Bentonite to surface

SURFACE COMPLETION: ☐ FLUSH W/CONCRETE ☐ RISER W/CONCRETE

SHEET 1 OF 1

PROJECT NO: 8357YPT12

SITE NAME: Buffalo Speedway Extension Project

☒ BOREHOLE ☐ MONITOR WELL

BORING NUMBER : Pit-2(A) TEMP. WELL NUMBER :

FACILITY ADDRESS: Not Applicable

DRILLING COMPANY / METHOD / RIG: Alpine Services/Tractor-Mounted Hydraulically-Driven Push Probe

DRILLER: Isidro DATE: 3/25/2012

LOGGED BY: B. Price TOP OF CASING ELEVATION: N/Appl.

DEPTH	PID	SAMPLE INTERVAL	STRATIGRAPHY (Ground Surface)	USCS	SOIL DESCRIPTION AND COMMENT (CLASSIFICATION, GRAIN SIZE, COLOR, MOISTURE, ODOR, OTHER)	NOTES
0	0.0					
	0.0	X				Pit-2(A) @ 2-4'; 11:10, 1-4 oz
5	0.0			CH	Clay; Dark gray clay, fines, soft, moist (0-7 feet bgs)	
	0.0					
	0.0			CH	Clay; Gray clay, fines, soft, moist with occasional calcium carbonate concretions and occasional orange mottling (7-12 feet bgs)	
10	0.0					
15					Total Depth = 12 ft	
20						
25						
30						
35						
40						
45						

FILTER SAND | BENTONITE SEAL | GROUT / CONCRETE SURFACE | ▼ WATER ENCOUNTERED

Berg ♦ Oliver Associates, Inc.

TOTAL DEPTH: 12'

SEAL MATERIAL: (TYPE/INTERVAL) Bentonite to surface

SURFACE COMPLETION: ☐ FLUSH W/CONCRETE ☐ RISER W/CONCRETE

SHEET 1 OF 1

PROJECT NO: 8357YPT12

SITE NAME: Buffalo Speedway Extension Project

☒ BOREHOLE ☐ MONITOR WELL

BORING NUMBER : Pit-2(B) TEMP. WELL NUMBER :

FACILITY ADDRESS: Not Applicable

DRILLING COMPANY / METHOD / RIG: Alpine Services/Tractor-Mounted Hydraulically-Driven Push Probe

DRILLER: Isidro DATE: 3/25/2012

LOGGED BY: B. Price TOP OF CASING ELEVATION: N/Appl.

DEPTH	PID	SAMPLE INTERVAL	STRATIGRAPHY Ground Surface	USCS	SOIL DESCRIPTION AND COMMENT (CLASSIFICATION, GRAIN SIZE, COLOR, MOISTURE, ODOR, OTHER)	NOTES
0	0.0					
	0.0					
5	0.0	X		CH	Clay; Dark gray clay, fines, soft, moist (0-7 feet bgs)	Pit-2(B) @ 2-4'; 11:40, 1-4 oz
	0.0					
10	0.0			CH	Clay; Gray clay, fines, soft, moist with occasional calcium carbonate concretions and occasional orange mottling (7-12 feet bgs)	
	0.0					
15					Total Depth = 12 ft	
20						
25						
30						
35						
40						
45						

FILTER SAND | BENTONITE SEAL | GROUT / CONCRETE SURFACE | ▼ WATER ENCOUNTERED

Berg ♦ Oliver Associates, Inc.

TOTAL DEPTH: 25'

SEAL MATERIAL: (TYPE/INTERVAL) Bentonite to surface

SURFACE COMPLETION: ☐ FLUSH W/CONCRETE ☐ RISER W/CONCRETE

SHEET 1 OF 1

PROJECT NO: 8357YPT12

SITE NAME: Buffalo Speedway Extension Project

☒ BOREHOLE ☐ MONITOR WELL

BORING NUMBER : Pit-2(C) TEMP. WELL NUMBER :

FACILITY ADDRESS: Not Applicable

DRILLING COMPANY / METHOD / RIG: Alpine Services/Tractor-Mounted Hydraulically-Driven Push Probe

DRILLER: Isidro DATE: 3/25/2012

LOGGED BY: B. Price TOP OF CASING ELEVATION: N/Appl.

DEPTH	PID	SAMPLE INTERVAL	STRATIGRAPHY	USCS	SOIL DESCRIPTION AND COMMENT (CLASSIFICATION, GRAIN SIZE, COLOR, MOISTURE, ODOR, OTHER)	NOTES
			Ground Surface			
0	0.0					
	0.0					
5	0.0			CH	Clay; Dark gray clay, fines, soft, moist (0-7 feet bgs)	
	0.0	X				Pit-2(C) @ 6-8'; 12:17, 1-4 oz
	0.0					
10	0.0			CH	Clay; Gray clay, fines, soft, moist with occasional calcium carbonate concretions and occasional orange mottling (7-12 feet bgs)	
15					Total Depth = 12 ft	
20						
25						
30						
35						
40						
45						

FILTER SAND | BENTONITE SEAL | GROUT / CONCRETE SURFACE | ▼ WATER ENCOUNTERED

Berg ♦ Oliver Associates, Inc.

TOTAL DEPTH: 25'

SEAL MATERIAL: (TYPE/INTERVAL) Bentonite to surface

SURFACE COMPLETION: ☐ FLUSH W/CONCRETE ☐ RISER W/CONCRETE

SHEET 1 OF 1

PROJECT NO: 8357YPT12

SITE NAME: Buffalo Speedway Extension Project

☒ BOREHOLE ☐ MONITOR WELL

BORING NUMBER : Well-A TEMP. WELL NUMBER :

FACILITY ADDRESS: Not Applicable

DRILLING COMPANY / METHOD / RIG: Alpine Services/Tractor-Mounted Hydraulically-Driven Push Probe

DRILLER: Isidro **DATE:** 3/25/2012

LOGGED BY: B. Price **TOP OF CASING ELEVATION:** N/Appl.

DEPTH	PID	SAMPLE INTERVAL	STRATIGRAPHY (Ground Surface)	USCS	SOIL DESCRIPTION AND COMMENT (CLASSIFICATION, GRAIN SIZE, COLOR, MOISTURE, ODOR, OTHER)	NOTES
0	0.0			Fill	Fill; Gravel and tan fill material (0 to 1-foot bgs);	
	0.0	X		CH	Clay; Dark gray clay, fines, soft with black organic material (1-foot to 3 feet bgs)	Well A @ 2-4'; 13:50, 1-4 oz
5	0.0			CH	Clay; Dark gray clay, fines, soft, moist (3-8 feet bgs)	
	0.0					
	0.0			CH	Clay; Reddish-orange clay, fines, soft, moist with some calcium carbonate concretions (8-12 feet bgs)	
10	0.0					
15					Total Depth = 12 ft	
20						
25						
30						
35						
40						
45						

FILTER SAND | BENTONITE SEAL | GROUT / CONCRETE SURFACE | ▼ WATER ENCOUNTERED

Berg ♦ Oliver Associates, Inc.

TOTAL DEPTH: 12'

SEAL MATERIAL: (TYPE/INTERVAL) Bentonite to surface

SURFACE COMPLETION: ☐ FLUSH W/CONCRETE ☐ RISER W/CONCRETE

SHEET 1 OF 1

PROJECT NO: 8357YPT12

SITE NAME: Buffalo Speedway Extension Project

☒ BOREHOLE ☐ MONITOR WELL

BORING NUMBER : Well-C TEMP. WELL NUMBER :

FACILITY ADDRESS: Not Applicable

DRILLING COMPANY / METHOD / RIG: Alpine Services/Tractor-Mounted Hydraulically-Driven Push Probe

DRILLER: Isidro DATE: 3/25/2012

LOGGED BY: B. Price TOP OF CASING ELEVATION: N/Appl.

DEPTH	PID	SAMPLE INTERVAL	STRATIGRAPHY	USCS	SOIL DESCRIPTION AND COMMENT (CLASSIFICATION, GRAIN SIZE, COLOR, MOISTURE, ODOR, OTHER)	NOTES
			Ground Surface			
0	0.0					
	0.0	X				Well C @ 2-4'; 13:12, 1-4 oz
5	0.0			CH	Clay; Dark gray clay, fines, soft, moist (0-7 feet bgs)	
	0.0					
	0.0			CH	Clay; Gray clay, fines, soft, moist with occasional calcium carbonate concretions and occasional orange mottling (7-12 feet bgs)	
10	0.0					
15					Total Depth = 12 ft	
20						
25						
30						
35						
40						
45						

FILTER SAND | BENTONITE SEAL | GROUT / CONCRETE SURFACE | ▼ WATER ENCOUNTERED

Berg ♦ Oliver Associates, Inc.

TOTAL DEPTH: 25'

SEAL MATERIAL: (TYPE/INTERVAL) Bentonite to surface

SURFACE COMPLETION: ☐ FLUSH W/CONCRETE ☐ RISER W/CONCRETE

SHEET 1 OF 1

PROJECT NO: 8357YPT12

SITE NAME: Buffalo Speedway Extension Project

☒ BOREHOLE ☐ MONITOR WELL

BORING NUMBER : Well-D TEMP. WELL NUMBER :

FACILITY ADDRESS: Not Applicable

DRILLING COMPANY / METHOD / RIG: Alpine Services/Tractor-Mounted Hydraulically-Driven Push Probe

DRILLER: Isidro DATE: 3/25/2012

LOGGED BY: B. Price TOP OF CASING ELEVATION: N/Appl.

DEPTH	PID	SAMPLE INTERVAL	STRATIGRAPHY (Ground Surface)	USCS	SOIL DESCRIPTION AND COMMENT (CLASSIFICATION, GRAIN SIZE, COLOR, MOISTURE, ODOR, OTHER)	NOTES
0	0.0					
	0.0	X				Well D @ 2-4'; 10:15, 1-4 oz
5	0.0			CH	Clay; Dark gray clay, fines, soft, moist (0-7 feet bgs)	
	0.0					
	0.0					
10	0.0			CH	Clay; Gray clay, fines, soft, moist with occasional calcium carbonate concretions and occasional orange mottling (7-12 feet bgs)	
15					Total Depth = 12 ft	
20						
25						
30						
35						
40						
45						

FILTER SAND | BENTONITE SEAL | GROUT / CONCRETE SURFACE | ▼ WATER ENCOUNTERED

Berg ♦ Oliver Associates, Inc.

TOTAL DEPTH: 12'

SEAL MATERIAL: (TYPE/INTERVAL) Bentonite to surface

SURFACE COMPLETION: ☐ FLUSH W/CONCRETE ☐ RISER W/CONCRETE

SHEET 1 OF 1

PROJECT NO: 8357YPT12

SITE NAME: Buffalo Speedway Extension Project

☒ BOREHOLE ☐ MONITOR WELL

BORING NUMBER : Well-E TEMP. WELL NUMBER :

FACILITY ADDRESS: Not Applicable

DRILLING COMPANY / METHOD / RIG: Alpine Services/Tractor-Mounted Hydraulically-Driven Push Probe

DRILLER: Isidro DATE: 3/25/2012

LOGGED BY: B. Price TOP OF CASING ELEVATION: N/Appl.

DEPTH	PID	SAMPLE INTERVAL	STRATIGRAPHY (Ground Surface)	USCS	SOIL DESCRIPTION AND COMMENT (CLASSIFICATION, GRAIN SIZE, COLOR, MOISTURE, ODOR, OTHER)	NOTES
0	0.0					
	0.0	X				Well E @ 2-4'; 10:48, 1-4 oz
5	0.0			CH	Clay; Dark gray clay, fines, soft, moist (0-7 feet bgs)	
	0.0					
	0.0					
10	0.0			CH	Clay; Gray clay, fines, soft, moist with occasional calcium carbonate concretions and occasional orange mottling (7-12 feet bgs)	
15					Total Depth = 12 ft	
20						
25						
30						
35						
40						
45						

FILTER SAND | BENTONITE SEAL | GROUT / CONCRETE SURFACE | ▼ WATER ENCOUNTERED

Berg ♦ Oliver Associates, Inc.

TOTAL DEPTH: 12'

SEAL MATERIAL: (TYPE/INTERVAL) Bentonite to surface

SURFACE COMPLETION: ☐ FLUSH W/CONCRETE ☐ RISER W/CONCRETE

SHEET 1 OF 1

PROJECT NO: 8357YPT12

SITE NAME: Buffalo Speedway Extension Project

☒ BOREHOLE ☐ MONITOR WELL

BORING NUMBER : Well-F TEMP. WELL NUMBER :

FACILITY ADDRESS: Not Applicable

DRILLING COMPANY / METHOD / RIG: Alpine Services/Tractor-Mounted Hydraulically-Driven Push Probe

DRILLER: Isidro DATE: 3/25/2012

LOGGED BY: B. Price TOP OF CASING ELEVATION: N/Appl.

DEPTH	PID	SAMPLE INTERVAL	STRATIGRAPHY (Ground Surface)	USCS	SOIL DESCRIPTION AND COMMENT (CLASSIFICATION, GRAIN SIZE, COLOR, MOISTURE, ODOR, OTHER)	NOTES
0	0.0					
	0.0					
5	0.0			CH	Clay; Dark gray clay, fines, soft, moist (0-7 feet bgs)	
	0.0	X				Well F @ 6-8'; 12:44, 1-4 oz
10	0.0			CH	Clay; Gray clay, fines, soft, moist with occasional calcium carbonate concretions and occasional orange mottling (7-12 feet bgs)	
	0.0					
15					Total Depth = 12 ft	
20						
25						
30						
35						
40						
45						

FILTER SAND | BENTONITE SEAL | GROUT / CONCRETE SURFACE | ▼ WATER ENCOUNTERED

Berg ♦ Oliver Associates, Inc.

TOTAL DEPTH: 25'

SEAL MATERIAL: (TYPE/INTERVAL) Bentonite to surface

SURFACE COMPLETION: ☐ FLUSH W/CONCRETE ☐ RISER W/CONCRETE

SHEET 1 OF 1

PROJECT NO: 8357YPT12

SITE NAME: Buffalo Speedway Extension Project

☒ BOREHOLE ☐ MONITOR WELL

BORING NUMBER : Well-G(1) TEMP. WELL NUMBER :

FACILITY ADDRESS: Not Applicable

DRILLING COMPANY / METHOD / RIG: Alpine Services/Tractor-Mounted Hydraulically-Driven Push Probe

DRILLER: Isidro **DATE:** 3/25/2012

LOGGED BY: B. Price **TOP OF CASING ELEVATION:** N/Appl.

DEPTH	PID	SAMPLE INTERVAL	STRATIGRAPHY Ground Surface	USCS	SOIL DESCRIPTION AND COMMENT (CLASSIFICATION, GRAIN SIZE, COLOR, MOISTURE, ODOR, OTHER)	NOTES
0	0.0			CH	Clay; Dark brown clay, fines, soft, moist (0 to 2 feet bgs);	
	0.0	X		CH	Clay; Light gray clay, fines, soft, moist with calcium carbonate concretions and orange mottles (2-5 feet bgs)	Well B(2) @ 2-4'; 9:00, 1-4 oz
5	0.0					
	0.0			CH	Clay; Yellowish-orange clay, fines, soft, moist with abundant calcium carbonate concretions (5-9 feet bgs)	
	0.0					
10	0.0			CH	Clay; Reddish-orange clay, fines, soft, moist with some black manganese concretions and abundant calcium carbonate concretions (9-12 feet bgs)	
15					Total Depth = 12 ft	
20						
25						
30						
35						
40						
45						

FILTER SAND | BENTONITE SEAL | GROUT / CONCRETE SURFACE | ▼ WATER ENCOUNTERED

Berg ♦ Oliver Associates, Inc.

TOTAL DEPTH: 12'

SEAL MATERIAL: (TYPE/INTERVAL) Bentonite to surface

SURFACE COMPLETION: ☐ FLUSH W/CONCRETE ☐ RISER W/CONCRETE

SHEET 1 OF 1

PROJECT NO: 8357YPT12

SITE NAME: Buffalo Speedway Extension Project

☒ BOREHOLE ☐ MONITOR WELL

BORING NUMBER : Well-G(2) TEMP. WELL NUMBER : _____

FACILITY ADDRESS: Not Applicable

DRILLING COMPANY / METHOD / RIG: Alpine Services/Tractor-Mounted Hydraulically-Driven Push Probe

DRILLER: Isidro **DATE:** 3/25/2012

LOGGED BY: B. Price **TOP OF CASING ELEVATION:** N/Appl.

DEPTH	PID	SAMPLE INTERVAL	STRATIGRAPHY Ground Surface	USCS	SOIL DESCRIPTION AND COMMENT (CLASSIFICATION, GRAIN SIZE, COLOR, MOISTURE, ODOR, OTHER)	NOTES
0	0.0			CH	Clay; Dark brown clay, fines, soft, moist (0 to 2 feet bgs);	
	0.0			CH	Clay; Light gray clay, fines, soft, moist with calcium carbonate concretions and orange mottles (2-5 feet bgs)	
5	0.0					
	0.0	X		CH	Clay; Yellowish-orange clay, fines, soft, moist with abundant calcium carbonate concretions (5-9 feet bgs)	Well B(2) @ 6-8'; 9:45, 1-4 oz
	0.0					
10	0.0			CH	Clay; Reddish-orange clay, fines, soft, moist with some black manganese concretions and abundant calcium carbonate concretions (9-12 feet bgs)	
15					Total Depth = 12 ft	
20						
25						
30						
35						
40						
45						

FILTER SAND | BENTONITE SEAL | GROUT / CONCRETE SURFACE | ▼ WATER ENCOUNTERED

Berg ♦ Oliver Associates, Inc.

TOTAL DEPTH: 12'

SEAL MATERIAL: (TYPE/INTERVAL) Bentonite to surface

SURFACE COMPLETION: ☐ FLUSH W/CONCRETE ☐ RISER W/CONCRETE

SHEET 1 OF 1

APPENDIX B

Laboratory Analytical Results

Accutest Laboratories Gulf Coast, Inc.

4/9/2012 8:48

Job Number:	TC4052
Account:	Berg Oliver Associates
Project:	Buffalo Speedway / 8357Y
Project Number:	8357Y

Legend: Exceed

Client Sample ID:		TX Specific Soil Background Concentrations (TCEQ CHAP 350)	PIT 1 (A)	PIT 1 (B)	PIT 1 (C)	PIT 2 (A)	PIT 2 (B)	PIT 2 (C)	WELL A	WELL C	WELL D
Lab Sample ID:			TC4052-1	TC4052-2	TC4052-3	TC4052-4	TC4052-5	TC4052-6	TC4052-7	TC4052-8	TC4052-9
Date Sampled:			3/25/2012	3/25/2012	3/25/2012	3/25/2012	3/25/2012	3/25/2012	3/25/2012	3/25/2012	3/25/2012
Matrix:			Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
GC/MS Volatiles (SW846 8260B)											
Benzene	mg/kg	-	0.00064 U	0.00057 U	0.00058 U	0.00068 U	0.00067 U	0.00062 U	0.00061 U	0.00063 U	0.00058 U
Toluene	mg/kg	-	0.00085 U	0.00075 U	0.00077 U	0.00090 U	0.00088 U	0.00081 U	0.00081 U	0.00084 U	0.00077 U
Ethylbenzene	mg/kg	-	0.00084 U	0.00074 U	0.00076 U	0.00090 U	0.00087 U	0.00081 U	0.00080 U	0.00083 U	0.00077 U
Xylene (total)	mg/kg	-	0.0017 U	0.0015 U	0.0015 U	0.0018 U	0.0017 U	0.0016 U	0.0016 U	0.0016 U	0.0015 U
GC Semi-volatiles (TNRCC 1005)											
TPH (C6-C12)	mg/kg	-	5.3 U	4.7 U	4.6 U	5.3 U	5.3 U	5.1 U	4.8 U	5.0 U	5.0 U
TPH (>C12-C28)	mg/kg	-	5.3 U	4.7 U	4.6 U	5.3 U	5.3 U	5.1 U	4.8 U	150	5.0 U
TPH (>C28-C35)	mg/kg	-	5.3 U	4.7 U	4.6 U	5.3 U	5.3 U	5.1 U	4.8 U	266	5.0 U
TPH (C6-C35)	mg/kg	-	5.3 U	4.7 U	4.6 U	5.3 U	5.3 U	5.1 U	4.8 U	416	5.0 U
Metals Analysis											
Arsenic	mg/kg	5.9	3.5	1.8	1.3	1.6	1.7	2	4	2.5	1.6
Barium	mg/kg	300	656	83.8	183	146	120	89.2	57.1	52.1	63.9
Cadmium	mg/kg	-	0.24 J	0.089 J	0.092 J	0.10 J	0.096 J	0.087 J	0.18 J	0.082 J	0.081 J
Chromium	mg/kg	30	22.9	16.1	8	16.3	12	7.6	7.8	14.6	12.9
Lead	mg/kg	15	11.2	9.7	3.5	7.8	9.6	6.6	407	8.6	6.9
Mercury	mg/kg	0.04	0.015 J	0.015 J	0.012 J	0.024	0.017 J	0.014 J	0.031	0.0080 U	0.0079 U
Selenium	mg/kg	0.3	0.24 J	0.40 J	0.18 J	0.42 J	0.35 J	0.42 J	0.30 J	0.28 J	0.46 J
Silver	mg/kg	-	0.086 J	0.11 J	0.072 U	0.16 J	0.14 J	0.084 U	0.080 U	0.11 J	0.094 J
General Chemistry											
Chloride	mg/kg	-	42.3	13.8	15.8	50.3	18.5	42.9	49.8	99.7	225
Solids, Percent	%	-	77.6	83.9	86.3	74.7	75.7	79.4	84	80.8	80.9
pH	su	-	8.03	8.02	8.2	6.75	7.29	7.35	8.09	7.45	7.43

Client Sample ID:		TX Specific Soil Background Concentrations (TCEQ CHAP 350)	WELL E	WELL F	WELL G (1)	WELL G (2)
Lab Sample ID:			TC4052-10	TC4052-11	TC4052-12	TC4052-13
Date Sampled:			3/25/2012	3/25/2012	3/25/2012	3/25/2012
Matrix:			Soil	Soil	Soil	Soil
GC/MS Volatiles (SW846 8260B)						
Benzene	mg/kg	-	0.00060 U	0.00061 U	0.00059 U	0.00060 U
Toluene	mg/kg	-	0.00079 U	0.00080 U	0.00077 U	0.00079 U
Ethylbenzene	mg/kg	-	0.00079 U	0.00080 U	0.00077 U	0.00078 U
Xylene (total)	mg/kg	-	0.0015 U	0.0016 U	0.0015 U	0.0015 U
GC Semi-volatiles (TNRCC 1005)						
TPH (C6-C12)	mg/kg	-	5.1 U	4.9 U	4.5 U	4.7 U
TPH (>C12-C28)	mg/kg	-	5.2 U	4.9 U	4.5 U	4.7 U
TPH (>C28-C35)	mg/kg	-	5.2 U	4.9 U	4.5 U	4.7 U
TPH (C6-C35)	mg/kg	-	5.1 U	4.9 U	4.5 U	4.7 U
Metals Analysis						
Arsenic	mg/kg	5.9	1.5	2.3	3.9	3.3
Barium	mg/kg	300	57.3	129	184	621
Cadmium	mg/kg	-	0.080 J	0.085 J	0.096 J	0.31 J
Chromium	mg/kg	30	13.6	15.2	8.8	12.5
Lead	mg/kg	15	8.3	8.6	4.7	3.5
Mercury	mg/kg	0.04	0.0094 J	0.014 J	0.0078 J	0.0077 U
Selenium	mg/kg	0.3	0.30 J	0.25 J	0.25 J	0.30 J
Silver	mg/kg	-	0.094 J	0.10 J	0.077 U	0.081 U
General Chemistry						
Chloride	mg/kg	-	71.8	112	12.3	174
Solids, Percent	%	-	79.5	82.8	87.7	83.6
pH	su	-	7.63	8.46	8.04	8.72

Regulatory limits listed in this document have been obtained from the latest version of the regulations cited and are used for advisory purposes only. Accutest assumes no for errors in regulatory documents or changes to criteria detailed in later versions of the referenced regulation. It is the responsibility of the user to verify these limits before using or reporting any data.

8 results exceeded regulatory criteria.

Accutest Laboratories Gulf Coast, Inc.

4/9/2012 8:51

Job Number:	TC4052
Account:	Berg Oliver Associates
Project:	Buffalo Speedway / 8357Y
Project Number:	8357Y

Legend: Exceed

Client Sample ID:		TX TRRP Table 1 Residential Soil 0.5 acre TotSoilComb (TCEQ 5/24/11)	PIT 1 (A)	PIT 1 (B)	PIT 1 (C)	PIT 2 (A)	PIT 2 (B)	PIT 2 (C)	WELL A	WELL C	WELL D
Lab Sample ID:			TC4052-1	TC4052-2	TC4052-3	TC4052-4	TC4052-5	TC4052-6	TC4052-7	TC4052-8	TC4052-9
Date Sampled:			3/25/2012	3/25/2012	3/25/2012	3/25/2012	3/25/2012	3/25/2012	3/25/2012	3/25/2012	3/25/2012
Matrix:			Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
GC/MS Volatiles (SW846 8260B)											
Benzene	mg/kg	120	0.00064 U	0.00057 U	0.00058 U	0.00068 U	0.00067 U	0.00062 U	0.00061 U	0.00063 U	0.00058 U
Toluene	mg/kg	5900	0.00085 U	0.00075 U	0.00077 U	0.00090 U	0.00088 U	0.00081 U	0.00081 U	0.00084 U	0.00077 U
Ethylbenzene	mg/kg	6400	0.00084 U	0.00074 U	0.00076 U	0.00090 U	0.00087 U	0.00081 U	0.00080 U	0.00083 U	0.00077 U
Xylene (total)	mg/kg	6000	0.0017 U	0.0015 U	0.0015 U	0.0018 U	0.0017 U	0.0016 U	0.0016 U	0.0016 U	0.0015 U
GC Semi-volatiles (TNRCC 1005)											
TPH (C6-C12)	mg/kg	1600	5.3 U	4.7 U	4.6 U	5.3 U	5.3 U	5.1 U	4.8 U	5.0 U	5.0 U
TPH (>C12-C28)	mg/kg	2300	5.3 U	4.7 U	4.6 U	5.3 U	5.3 U	5.1 U	4.8 U	150	5.0 U
TPH (>C28-C35)	mg/kg	2300	5.3 U	4.7 U	4.6 U	5.3 U	5.3 U	5.1 U	4.8 U	266	5.0 U
TPH (C6-C35)	mg/kg	-	5.3 U	4.7 U	4.6 U	5.3 U	5.3 U	5.1 U	4.8 U	416	5.0 U
Metals Analysis											
Arsenic	mg/kg	24	3.5	1.8	1.3	1.6	1.7	2	4	2.5	1.6
Barium	mg/kg	8100	656	83.8	183	146	120	89.2	57.1	52.1	63.9
Cadmium	mg/kg	52	0.24 J	0.089 J	0.092 J	0.10 J	0.096 J	0.087 J	0.18 J	0.082 J	0.081 J
Chromium	mg/kg	33000	22.9	16.1	8	16.3	12	7.6	7.8	14.6	12.9
Lead	mg/kg	500	11.2	9.7	3.5	7.8	9.6	6.6	407	8.6	6.9
Mercury	mg/kg	3.6	0.015 J	0.015 J	0.012 J	0.024	0.017 J	0.014 J	0.031	0.0080 U	0.0079 U
Selenium	mg/kg	310	0.24 J	0.40 J	0.18 J	0.42 J	0.35 J	0.42 J	0.30 J	0.28 J	0.46 J
Silver	mg/kg	97	0.086 J	0.11 J	0.072 U	0.16 J	0.14 J	0.084 U	0.080 U	0.11 J	0.094 J
General Chemistry											
Chloride	mg/kg		42.3	13.8	15.8	50.3	18.5	42.9	49.8	99.7	225
Solids, Percent	%	-	77.6	83.9	86.3	74.7	75.7	79.4	84	80.8	80.9
pH	su	-	8.03	8.02	8.2	6.75	7.29	7.35	8.09	7.45	7.43

Client Sample ID:		TX TRRP Table 1 Residential Soil 0.5 acre TotSoilComb (TCEQ 5/24/11)	WELL E	WELL F	WELL G (1)	WELL G (2)					
Lab Sample ID:			TC4052-10	TC4052-11	TC4052-12	TC4052-13					
Date Sampled:			3/25/2012	3/25/2012	3/25/2012	3/25/2012					
Matrix:			Soil	Soil	Soil	Soil					
GC/MS Volatiles (SW846 8260B)											
Benzene	mg/kg	120	0.00060 U	0.00061 U	0.00059 U	0.00060 U					
Toluene	mg/kg	5900	0.00079 U	0.00080 U	0.00077 U	0.00079 U					
Ethylbenzene	mg/kg	6400	0.00079 U	0.00080 U	0.00077 U	0.00078 U					
Xylene (total)	mg/kg	6000	0.0015 U	0.0016 U	0.0015 U	0.0015 U					
GC Semi-volatiles (TNRCC 1005)											
TPH (C6-C12)	mg/kg	1600	5.1 U	4.9 U	4.5 U	4.7 U					
TPH (>C12-C28)	mg/kg	2300	5.2 U	4.9 U	4.5 U	4.7 U					
TPH (>C28-C35)	mg/kg	2300	5.2 U	4.9 U	4.5 U	4.7 U					
TPH (C6-C35)	mg/kg	-	5.1 U	4.9 U	4.5 U	4.7 U					
Metals Analysis											
Arsenic	mg/kg	24	1.5	2.3	3.9	3.3					
Barium	mg/kg	8100	57.3	129	184	621					
Cadmium	mg/kg	52	0.080 J	0.085 J	0.096 J	0.31 J					
Chromium	mg/kg	33000	13.6	15.2	8.8	12.5					
Lead	mg/kg	500	8.3	8.6	4.7	3.5					
Mercury	mg/kg	3.6	0.0094 J	0.014 J	0.0078 J	0.0077 U					
Selenium	mg/kg	310	0.30 J	0.25 J	0.25 J	0.30 J					
Silver	mg/kg	97	0.094 J	0.10 J	0.077 U	0.081 U					
General Chemistry											
Chloride	mg/kg		71.8	112	12.3	174					
Solids, Percent	%	-	79.5	82.8	87.7	83.6					
pH	su	-	7.63	8.46	8.04	8.72					

Regulatory limits listed in this document have been obtained from the latest version of the regulations cited and are used for advisory purposes only. Accutest assumes no for errors in regulatory documents or changes to criteria detailed in later versions of the referenced regulation. It is the responsibility of the user to verify these limits before using or reporting any data.

No results exceeded regulatory criteria.

Accutest Laboratories Gulf Coast, Inc.

4/9/2012 8:53

Job Number:	TC4052
Account:	Berg Oliver Associates
Project:	Buffalo Speedway / 8357Y
Project Number:	8357Y

Legend: Exceed

Client Sample ID:		TX TRRP Table 1 Residential Soil 0.5 acre GWSoilIng (TCEQ 5/24/11)	PIT 1 (A)	PIT 1 (B)	PIT 1 (C)	PIT 2 (A)	PIT 2 (B)	PIT 2 (C)	WELL A	WELL C	WELL D
Lab Sample ID:			TC4052-1	TC4052-2	TC4052-3	TC4052-4	TC4052-5	TC4052-6	TC4052-7	TC4052-8	TC4052-9
Date Sampled:			3/25/2012	3/25/2012	3/25/2012	3/25/2012	3/25/2012	3/25/2012	3/25/2012	3/25/2012	3/25/2012
Matrix:			Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
GC/MS Volatiles (SW846 8260B)											
Benzene	mg/kg	0.026	0.00064 U	0.00057 U	0.00058 U	0.00068 U	0.00067 U	0.00062 U	0.00061 U	0.00063 U	0.00058 U
Toluene	mg/kg	8.2	0.00085 U	0.00075 U	0.00077 U	0.00090 U	0.00088 U	0.00081 U	0.00081 U	0.00084 U	0.00077 U
Ethylbenzene	mg/kg	7.6	0.00084 U	0.00074 U	0.00076 U	0.00090 U	0.00087 U	0.00081 U	0.00080 U	0.00083 U	0.00077 U
Xylene (total)	mg/kg	120	0.0017 U	0.0015 U	0.0015 U	0.0018 U	0.0017 U	0.0016 U	0.0016 U	0.0016 U	0.0015 U
GC Semi-volatiles (TNRCC 1005)											
TPH (C6-C12)	mg/kg	65	5.3 U	4.7 U	4.6 U	5.3 U	5.3 U	5.1 U	4.8 U	5.0 U	5.0 U
TPH (>C12-C28)	mg/kg	200	5.3 U	4.7 U	4.6 U	5.3 U	5.3 U	5.1 U	4.8 U	150	5.0 U
TPH (>C28-C35)	mg/kg	200	5.3 U	4.7 U	4.6 U	5.3 U	5.3 U	5.1 U	4.8 U	266	5.0 U
TPH (C6-C35)	mg/kg	-	5.3 U	4.7 U	4.6 U	5.3 U	5.3 U	5.1 U	4.8 U	416	5.0 U
Metals Analysis											
Arsenic	mg/kg	5	3.5	1.8	1.3	1.6	1.7	2	4	2.5	1.6
Barium	mg/kg	440	656	83.8	183	146	120	89.2	57.1	52.1	63.9
Cadmium	mg/kg	1.5	0.24 J	0.089 J	0.092 J	0.10 J	0.096 J	0.087 J	0.18 J	0.082 J	0.081 J
Chromium	mg/kg	2400	22.9	16.1	8	16.3	12	7.6	7.8	14.6	12.9
Lead	mg/kg	3	11.2	9.7	3.5	7.8	9.6	6.6	407	8.6	6.9
Mercury	mg/kg	0.0078	0.015 J	0.015 J	0.012 J	0.024	0.017 J	0.014 J	0.031	0.0080 U	0.0079 U
Selenium	mg/kg	2.3	0.24 J	0.40 J	0.18 J	0.42 J	0.35 J	0.42 J	0.30 J	0.28 J	0.46 J
Silver	mg/kg	0.48	0.086 J	0.11 J	0.072 U	0.16 J	0.14 J	0.084 U	0.080 U	0.11 J	0.094 J
General Chemistry											
Chloride	mg/kg		42.3	13.8	15.8	50.3	18.5	42.9	49.8	99.7	225
Solids, Percent	%	-	77.6	83.9	86.3	74.7	75.7	79.4	84	80.8	80.9
pH	su	-	8.03	8.02	8.2	6.75	7.29	7.35	8.09	7.45	7.43

Client Sample ID:		TX TRRP Table 1 Residential Soil 0.5 acre GWSoilIng (TCEQ 5/24/11)	WELL E	WELL F	WELL G (1)	WELL G (2)					
Lab Sample ID:			TC4052-10	TC4052-11	TC4052-12	TC4052-13					
Date Sampled:			3/25/2012	3/25/2012	3/25/2012	3/25/2012					
Matrix:			Soil	Soil	Soil	Soil					
GC/MS Volatiles (SW846 8260B)											
Benzene	mg/kg	0.026	0.00060 U	0.00061 U	0.00059 U	0.00060 U					
Toluene	mg/kg	8.2	0.00079 U	0.00080 U	0.00077 U	0.00079 U					
Ethylbenzene	mg/kg	7.6	0.00079 U	0.00080 U	0.00077 U	0.00078 U					
Xylene (total)	mg/kg	120	0.0015 U	0.0016 U	0.0015 U	0.0015 U					
GC Semi-volatiles (TNRCC 1005)											
TPH (C6-C12)	mg/kg	65	5.1 U	4.9 U	4.5 U	4.7 U					
TPH (>C12-C28)	mg/kg	200	5.2 U	4.9 U	4.5 U	4.7 U					
TPH (>C28-C35)	mg/kg	200	5.2 U	4.9 U	4.5 U	4.7 U					
TPH (C6-C35)	mg/kg	-	5.1 U	4.9 U	4.5 U	4.7 U					
Metals Analysis											
Arsenic	mg/kg	5	1.5	2.3	3.9	3.3					
Barium	mg/kg	440	57.3	129	184	621					
Cadmium	mg/kg	1.5	0.080 J	0.085 J	0.096 J	0.31 J					
Chromium	mg/kg	2400	13.6	15.2	8.8	12.5					
Lead	mg/kg	3	8.3	8.6	4.7	3.5					
Mercury	mg/kg	0.0078	0.0094 J	0.014 J	0.0078 J	0.0077 U					
Selenium	mg/kg	2.3	0.30 J	0.25 J	0.25 J	0.30 J					
Silver	mg/kg	0.48	0.094 J	0.10 J	0.077 U	0.081 U					
General Chemistry											
Chloride	mg/kg		71.8	112	12.3	174					
Solids, Percent	%	-	79.5	82.8	87.7	83.6					
pH	su	-	7.63	8.46	8.04	8.72					

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25 results exceeded regulatory criteria.

Gulf Coast ACCUTEST LABORATORIES

04/04/12

Technical Report for

Berg Oliver Associates

Buffalo Speedway / 8357Y

8357Y

Accutest Job Number: TC4052

Sampling Date: 03/25/12

Report to:

Berg Oliver Associates
14701 Saint Mary's Lane Suite 400
Houston, TX 77079
bprice@bergoliver.com

ATTN: Ben Price

Total number of pages in report: 106

ACCREDITED IN ACCORDANCE WITH nelac

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Conference and/or state specific certification programs as applicable.

Paul K Canevaro

Paul Canevaro
Laboratory Director

Client Service contact: Georgia Jones 713-271-4700

Certifications: TX (T104704220-12-7) AR (11-028-0) AZ (AZ0769) FL (E87628) KS (E-10366) LA (85695/04004) OK (211-035)

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Test results relate only to samples analyzed.

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Sample Summary

Berg Oliver Associates

Job No: TC4052

Buffalo Speedway / 8357Y
Project No: 8357Y

Sample Number	Collected Date	Time By	Received	Matrix Code	Type	Client Sample ID
TC4052-1	03/25/12	09:00	03/26/12	SO	Soil	PIT 1 (A)
TC4052-2	03/25/12	09:45	03/26/12	SO	Soil	PIT 1 (B)
TC4052-3	03/25/12	10:17	03/26/12	SO	Soil	PIT 1 (C)
TC4052-4	03/25/12	10:48	03/26/12	SO	Soil	PIT 2 (A)
TC4052-5	03/25/12	11:10	03/26/12	SO	Soil	PIT 2 (B)
TC4052-6	03/25/12	11:40	03/26/12	SO	Soil	PIT 2 (C)
TC4052-7	03/25/12	12:17	03/26/12	SO	Soil	WELL A
TC4052-8	03/25/12	12:44	03/26/12	SO	Soil	WELL C
TC4052-9	03/25/12	13:12	03/26/12	SO	Soil	WELL D
TC4052-10	03/25/12	13:50	03/26/12	SO	Soil	WELL E
TC4052-11	03/25/12	14:17	03/26/12	SO	Soil	WELL F
TC4052-12	03/25/12	14:40	03/26/12	SO	Soil	WELL G (1)
TC4052-13	03/25/12	15:15	03/26/12	SO	Soil	WELL G (2)

Soil samples reported on a dry weight basis unless otherwise indicated on result page.

Sample Summary
(continued)

Berg Oliver Associates

Job No: TC4052

Buffalo Speedway / 8357Y
Project No: 8357Y

Sample Number	Collected Date	Time By	Received	Matrix Code	Type	Client Sample ID
TC4052-14	03/25/12	00:00	03/26/12	AQ	Trip Blank Soil	TRIP BLANK

Soil samples reported on a dry weight basis unless otherwise indicated on result page.

ACCUTEST LABORATORIES

2

SAMPLE DELIVERY GROUP CASE NARRATIVE

Client: Berg Oliver Associates **Job No** TC4052

Site: Buffalo Speedway / 8357Y **Report Date** 4/4/2012 2:19:40 PM

13 Samples were collected on 03/25/2012 and were received intact at Accutest on 03/26/2012 and in 1 cooler at 12.6 Deg C. These Samples received an Accutest job number of TC4052. A listing of the Laboratory Sample ID, Client Sample ID and date of collection are presented in the Results Summary Section of this report. Samples as received was not chilled to less than 6 Deg. C.

Except as noted below, all method specified calibrations and quality control performance criteria were met for this job. For more information, please refer to QC summary pages.

Volatiles by GCMS By Method SW846 8260B

Matrix SO **Batch ID:** VM1682

- All samples were analyzed within the recommended method holding time.
- Sample(s) TC4132-5MS, TC4132-5MSD were used as the QC samples indicated.
- All method blanks for this batch meet method specific criteria.

Matrix SO **Batch ID:** VQ208

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) TC3935-14MS, TC3935-14MSD were used as the QC samples indicated.

Matrix SO **Batch ID:** VQ210

- All samples were analyzed within the recommended method holding time.
- Sample(s) TC3935-13MS, TC3935-13MSD were used as the QC samples indicated.
- All method blanks for this batch meet method specific criteria.

Matrix SO **Batch ID:** VQ211

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) TC4132-2MS, TC4132-2MSD were used as the QC samples indicated.
- TC4052-8: Confirmation run.
- TC4132-2MSD: Sample was received unpreserved and outside the 48 hour preservation time.
- TC4132-2MS: Sample was received unpreserved and outside the 48 hour preservation time.

Extractables by GC By Method TNRCC 1005

Matrix SO **Batch ID:** OP22763

- All samples were extracted within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- Sample(s) TC4052-10MS, TC4052-10MSD were used as the QC samples indicated.
- All method blanks for this batch meet method specific criteria..
- Sample(s) TC4052-11, TC4052-12, TC4052-13, TC4052-2 have surrogates outside control limits. Probable cause due to matrix interference.
- Sample(s) TC4052-11, TC4052-12, TC4052-13, TC4052-2 for the surrogate o-Terphenyl: Outside control limits biased high. Only ND results are reported.
- Sample(s) TC4052-11 for aaa-Trifluorotoluene: Outside control limits biased high. Only ND results are reported.

Metals By Method SW846 6010B

Matrix SO	Batch ID: MP17208

- All samples were digested within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) TC4052-1DUP, TC4052-1MSD, TC4052-1SDL, TC4052-1MS were used as the QC samples for metals.
- Matrix Spike Recovery(s) for Arsenic, Cadmium, Chromium, Lead, Selenium, Silver are outside control limits. Spike recovery indicates possible matrix interference and/or sample nonhomogeneity.
- Matrix Spike Duplicate Recovery(s) for Arsenic, Cadmium, Chromium, Lead, Selenium are outside control limits. High RPD due to possible sample nonhomogeneity or matrix interference.
- RPD(s) for Duplicate for Arsenic, Barium are outside control limits for sample MP17208-D1. High RPD due to possible sample nonhomogeneity or matrix interference.
- RPD(s) for MSD for Barium are outside control limits for sample MP17208-S2. High RPD due to possible sample nonhomogeneity or matrix interference.
- RPD(s) for Serial Dilution for Arsenic, Selenium, Silver are outside control limits for sample MP17208-SD1. Percent difference acceptable due to low initial sample concentration (< 50 times IDL).
- Matrix Spike Recovery(s) for Barium are outside control limits. Spike amount low relative to the sample amount. Refer to lab control or spike blank for recovery information.
- Matrix Spike Duplicate Recovery(s) for Barium are outside control limits. Spike amount low relative to the sample amount. Refer to lab control or spike blank for recovery information.
- RPD(s) for Duplicate for Cadmium, Selenium, Silver are outside control limits for sample MP17208-D1. RPD acceptable due to low duplicate and sample concentrations
- RPD(s) for Serial Dilution for Barium, Chromium, Lead are outside control limits for sample MP17208-SD1. Serial dilution indicates possible matrix interference.

Metals By Method SW846 7471A

Matrix SO	Batch ID: MP17216

- All samples were digested within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) TC4052-1MS, TC4052-1MSD, TC4052-1DUP were used as the QC samples for metals.
- RPD(s) for Duplicate for Mercury are outside control limits for sample MP17216-D1. RPD acceptable due to low duplicate and sample concentrations.

Wet Chemistry By Method EPA 300/SW846 9056 M

Matrix SO	Batch ID: GP18378

- All samples were prepared within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) TC3915-1DUP, TC3915-1MS were used as the QC samples for Chloride.
- Matrix Spike Recovery(s) for Chloride are outside control limits. Probable cause due to matrix interference.

Matrix SO	Batch ID: GP18416

- All samples were prepared within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) TC4180-1DUP, TC4180-1MS were used as the QC samples for Chloride.
- Matrix Spike Recovery(s) for Chloride are outside control limits. Spike amount low relative to the sample amount. Refer to lab control or spike blank for recovery information.

Wet Chemistry By Method SM 2540 G

Matrix SO	Batch ID: GN40760

- Sample(s) TC4052-1DUP were used as the QC samples for Solids, Percent.

Wet Chemistry By Method SW846 9045C

Matrix SO	Batch ID: GN40748

- Sample(s) TC4052-1DUP were used as the QC samples for pH.
- The following samples were run outside of holding time for method SW846 9045C: TC4052-1, TC4052-10, TC4052-11, TC4052-12, TC4052-13, TC4052-2, TC4052-3, TC4052-4, TC4052-5, TC4052-6, TC4052-7, TC4052-8, TC4052-9

Accutest Laboratories Gulf Coast (ALGC) certifies that this report meets the project requirements for analytical data produced for the samples as received at ALGC and as stated on the COC. ALGC certifies that the data meets the Data QualityObjectives for precision, accuracy and completeness as specified in the ALGC Quality Manual except as noted above. This report is to be used in its entirety. ALGC is not responsible for any assumptions of data quality if partial data packages are used

Gulf Coast ACCUTEST LABORATORIES

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	PIT 1 (A)		
Lab Sample ID:	TC4052-1	**Date Sampled:**	03/25/12
Matrix:	SO - Soil	**Date Received:**	03/26/12
Method:	SW846 8260B	**Percent Solids:**	77.6
Project:	Buffalo Speedway / 8357Y		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Q005178.D	1	03/28/12	LT	n/a	n/a	VQ208
Run #2							

	Initial Weight	Final Volume
Run #1	5.30 g	5.0 ml
Run #2		

Purgeable Aromatics

CAS No.	Compound	Result	MQL	SDL	Units	Q
71-43-2	Benzene	0.00064 U	0.0049	0.00064	mg/kg	
108-88-3	Toluene	0.00085 U	0.0049	0.00085	mg/kg	
100-41-4	Ethylbenzene	0.00084 U	0.0049	0.00084	mg/kg	
1330-20-7	Xylene (total)	0.0017 U	0.015	0.0017	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	90%		70-121%
2037-26-5	Toluene-D8	108%		76-132%
460-00-4	4-Bromofluorobenzene	92%		73-165%
17060-07-0	1,2-Dichloroethane-D4	79%		57-122%

U = Not detected SDL - Sample Detection Limit
MQL = Method Quantitation Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	PIT 1 (A)		
Lab Sample ID:	TC4052-1	**Date Sampled:**	03/25/12
Matrix:	SO - Soil	**Date Received:**	03/26/12
Method:	TNRCC 1005 TX1005	**Percent Solids:**	77.6
Project:	Buffalo Speedway / 8357Y		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	LF069218.D	1	03/30/12	NW	03/27/12	OP22763	GLF1012
Run #2							

	Initial Weight	Final Volume
Run #1	10.1 g	10.0 ml
Run #2		

CAS No.	Compound	Result	MQL	SDL	Units	Q
	TPH (C6-C12)	5.3 U	32	5.3	mg/kg	
	TPH (>C12-C28)	5.3 U	32	5.3	mg/kg	
	TPH (>C28-C35)	5.3 U	32	5.3	mg/kg	
	TPH (C6-C35)	5.3 U	32	5.3	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	127%		70-130%
98-08-8	aaa-Trifluorotoluene	114%		70-130%

U = Not detected SDL - Sample Detection Limit
MQL = Method Quantitation Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	PIT 1 (A)		
Lab Sample ID:	TC4052-1	**Date Sampled:**	03/25/12
Matrix:	SO - Soil	**Date Received:**	03/26/12
		Percent Solids:	77.6
Project:	Buffalo Speedway / 8357Y		

Metals Analysis

Analyte	Result	MQL	SDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	3.5	0.68	0.12	mg/kg	1	03/29/12	03/31/12	NS	SW846 6010B [2]	SW846 3050B [3]
Barium	656	14	0.093	mg/kg	1	03/29/12	03/31/12	NS	SW846 6010B [2]	SW846 3050B [3]
Cadmium	0.24 J	0.34	0.019	mg/kg	1	03/29/12	03/31/12	NS	SW846 6010B [2]	SW846 3050B [3]
Chromium	22.9	0.68	0.031	mg/kg	1	03/29/12	03/31/12	NS	SW846 6010B [2]	SW846 3050B [3]
Lead	11.2	0.68	0.068	mg/kg	1	03/29/12	03/31/12	NS	SW846 6010B [2]	SW846 3050B [3]
Mercury	0.015 J	0.020	0.0078	mg/kg	1	03/30/12	03/30/12	TW	SW846 7471A [1]	SW846 7471A [4]
Selenium	0.24 J	0.68	0.19	mg/kg	1	03/29/12	03/31/12	NS	SW846 6010B [2]	SW846 3050B [3]
Silver	0.086 J	0.68	0.079	mg/kg	1	03/29/12	03/31/12	NS	SW846 6010B [2]	SW846 3050B [3]

(1) Instrument QC Batch: MA6662
(2) Instrument QC Batch: MA6669
(3) Prep QC Batch: MP17208
(4) Prep QC Batch: MP17216

MQL = Method Quantitation Limit
SDL = Sample Detection Limit

U = Indicates a result < SDL
J = Indicates a result > = SDL but < MQL

Accutest Laboratories

Report of Analysis

3.1

3

Client Sample ID:	PIT 1 (A)		
Lab Sample ID:	TC4052-1	**Date Sampled:**	03/25/12
Matrix:	SO - Soil	**Date Received:**	03/26/12
		Percent Solids:	77.6
Project:	Buffalo Speedway / 8357Y		

General Chemistry

Analyte	Result	MQL	SDL	Units	DF	Analyzed	By	Method
Chloride	42.3	3.2	1.3	mg/kg	1	03/27/12 19:58	ES	EPA 300/SW846 9056 M
Solids, Percent	77.6			%	1	03/28/12	KA	SM 2540 G
pH	8.03			su	1	03/27/12 09:00	RA	SW846 9045C

MQL = Method Quantitation Limit
SDL = Sample Detection Limit

U = Indicates a result < SDL
J = Indicates a result > = SDL but < MQL

Accutest Laboratories

Report of Analysis

3.2

3

Client Sample ID:	PIT 1 (B)		
Lab Sample ID:	TC4052-2	**Date Sampled:**	03/25/12
Matrix:	SO - Soil	**Date Received:**	03/26/12
Method:	SW846 8260B	**Percent Solids:**	83.9
Project:	Buffalo Speedway / 8357Y		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Q005179.D	1	03/28/12	LT	n/a	n/a	VQ208
Run #2							

	Initial Weight	Final Volume
Run #1	5.58 g	5.0 ml
Run #2		

Purgeable Aromatics

CAS No.	Compound	Result	MQL	SDL	Units	Q
71-43-2	Benzene	0.00057 U	0.0043	0.00057	mg/kg	
108-88-3	Toluene	0.00075 U	0.0043	0.00075	mg/kg	
100-41-4	Ethylbenzene	0.00074 U	0.0043	0.00074	mg/kg	
1330-20-7	Xylene (total)	0.0015 U	0.013	0.0015	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	96%		70-121%
2037-26-5	Toluene-D8	111%		76-132%
460-00-4	4-Bromofluorobenzene	97%		73-165%
17060-07-0	1,2-Dichloroethane-D4	82%		57-122%

U = Not detected SDL - Sample Detection Limit
MQL = Method Quantitation Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	PIT 1 (B)		
Lab Sample ID:	TC4052-2	**Date Sampled:**	03/25/12
Matrix:	SO - Soil	**Date Received:**	03/26/12
Method:	TNRCC 1005 TX1005	**Percent Solids:**	83.9
Project:	Buffalo Speedway / 8357Y		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	LB069219.D	1	03/30/12	NW	03/27/12	OP22763	GLB1012
Run #2							

	Initial Weight	Final Volume
Run #1	10.5 g	10.0 ml
Run #2		

CAS No.	Compound	Result	MQL	SDL	Units	Q
	TPH (C6-C12)	4.7 U	28	4.7	mg/kg	
	TPH (>C12-C28)	4.7 U	28	4.7	mg/kg	
	TPH (>C28-C35)	4.7 U	28	4.7	mg/kg	
	TPH (C6-C35)	4.7 U	28	4.7	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	131% [a]		70-130%
98-08-8	aaa-Trifluorotoluene	118%		70-130%

(a) Outside control limits biased high. Only ND results are reported.

U = Not detected SDL - Sample Detection Limit
MQL = Method Quantitation Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

3.2

3

Client Sample ID:	PIT 1 (B)		
Lab Sample ID:	TC4052-2	**Date Sampled:**	03/25/12
Matrix:	SO - Soil	**Date Received:**	03/26/12
		Percent Solids:	83.9
Project:	Buffalo Speedway / 8357Y		

Metals Analysis

Analyte	Result	MQL	SDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	1.8	0.60	0.10	mg/kg	1	03/29/12	04/01/12	NS	SW846 6010B [2]	SW846 3050B [3]
Barium	83.8	12	0.082	mg/kg	1	03/29/12	04/01/12	NS	SW846 6010B [2]	SW846 3050B [3]
Cadmium	0.089 J	0.30	0.017	mg/kg	1	03/29/12	04/01/12	NS	SW846 6010B [2]	SW846 3050B [3]
Chromium	16.1	0.60	0.028	mg/kg	1	03/29/12	04/01/12	NS	SW846 6010B [2]	SW846 3050B [3]
Lead	9.7	0.60	0.060	mg/kg	1	03/29/12	04/01/12	NS	SW846 6010B [2]	SW846 3050B [3]
Mercury	0.015 J	0.019	0.0076	mg/kg	1	03/30/12	03/30/12	TW	SW846 7471A [1]	SW846 7471A [4]
Selenium	0.40 J	0.60	0.17	mg/kg	1	03/29/12	04/01/12	NS	SW846 6010B [2]	SW846 3050B [3]
Silver	0.11 J	0.60	0.070	mg/kg	1	03/29/12	04/01/12	NS	SW846 6010B [2]	SW846 3050B [3]

(1) Instrument QC Batch: MA6662
(2) Instrument QC Batch: MA6669
(3) Prep QC Batch: MP17208
(4) Prep QC Batch: MP17216

MQL = Method Quantitation Limit
SDL = Sample Detection Limit

U = Indicates a result < SDL
J = Indicates a result > = SDL but < MQL

Accutest Laboratories

Report of Analysis

3.2

3

Client Sample ID:	PIT 1 (B)		
Lab Sample ID:	TC4052-2	**Date Sampled:**	03/25/12
Matrix:	SO - Soil	**Date Received:**	03/26/12
		Percent Solids:	83.9
Project:	Buffalo Speedway / 8357Y		

General Chemistry

Analyte	Result	MQL	SDL	Units	DF	Analyzed	By	Method
Chloride	13.8	3.0	1.2	mg/kg	1	03/27/12 20:15	ES	EPA 300/SW846 9056 M
Solids, Percent	83.9			%	1	03/28/12	KA	SM 2540 G
pH	8.02			su	1	03/27/12 09:00	RA	SW846 9045C

MQL = Method Quantitation Limit
SDL = Sample Detection Limit

U = Indicates a result < SDL
J = Indicates a result > = SDL but < MQL

Accutest Laboratories

Report of Analysis

3.3

Client Sample ID:	PIT 1 (C)		
Lab Sample ID:	TC4052-3	**Date Sampled:**	03/25/12
Matrix:	SO - Soil	**Date Received:**	03/26/12
Method:	SW846 8260B	**Percent Solids:**	86.3
Project:	Buffalo Speedway / 8357Y		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Q005180.D	1	03/28/12	LT	n/a	n/a	VQ208
Run #2							

	Initial Weight	Final Volume
Run #1	5.28 g	5.0 ml
Run #2		

Purgeable Aromatics

CAS No.	Compound	Result	MQL	SDL	Units	Q
71-43-2	Benzene	0.00058 U	0.0044	0.00058	mg/kg	
108-88-3	Toluene	0.00077 U	0.0044	0.00077	mg/kg	
100-41-4	Ethylbenzene	0.00076 U	0.0044	0.00076	mg/kg	
1330-20-7	Xylene (total)	0.0015 U	0.013	0.0015	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	93%		70-121%
2037-26-5	Toluene-D8	108%		76-132%
460-00-4	4-Bromofluorobenzene	93%		73-165%
17060-07-0	1,2-Dichloroethane-D4	83%		57-122%

U = Not detected SDL - Sample Detection Limit
MQL = Method Quantitation Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

3.3

3

Client Sample ID:	PIT 1 (C)		
Lab Sample ID:	TC4052-3	**Date Sampled:**	03/25/12
Matrix:	SO - Soil	**Date Received:**	03/26/12
Method:	TNRCC 1005 TX1005	**Percent Solids:**	86.3
Project:	Buffalo Speedway / 8357Y		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	LF069220.D	1	03/30/12	NW	03/27/12	OP22763	GLF1012
Run #2							

	Initial Weight	Final Volume
Run #1	10.5 g	10.0 ml
Run #2		

CAS No.	Compound	Result	MQL	SDL	Units	Q
	TPH (C6-C12)	4.6 U	28	4.6	mg/kg	
	TPH (>C12-C28)	4.6 U	28	4.6	mg/kg	
	TPH (>C28-C35)	4.6 U	28	4.6	mg/kg	
	TPH (C6-C35)	4.6 U	28	4.6	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	127%		70-130%
98-08-8	aaa-Trifluorotoluene	103%		70-130%

U = Not detected SDL - Sample Detection Limit
MQL = Method Quantitation Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

3.3

Client Sample ID:	PIT 1 (C)		
Lab Sample ID:	TC4052-3	**Date Sampled:**	03/25/12
Matrix:	SO - Soil	**Date Received:**	03/26/12
		Percent Solids:	86.3
Project:	Buffalo Speedway / 8357Y		

Metals Analysis

Analyte	Result	MQL	SDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	1.3	0.62	0.11	mg/kg	1	03/29/12	04/01/12	NS	SW846 6010B [2]	SW846 3050B [3]
Barium	183	12	0.085	mg/kg	1	03/29/12	04/01/12	NS	SW846 6010B [2]	SW846 3050B [3]
Cadmium	0.092 J	0.31	0.017	mg/kg	1	03/29/12	04/01/12	NS	SW846 6010B [2]	SW846 3050B [3]
Chromium	8.0	0.62	0.029	mg/kg	1	03/29/12	04/01/12	NS	SW846 6010B [2]	SW846 3050B [3]
Lead	3.5	0.62	0.062	mg/kg	1	03/29/12	04/01/12	NS	SW846 6010B [2]	SW846 3050B [3]
Mercury	0.012 J	0.018	0.0072	mg/kg	1	03/30/12	03/30/12	TW	SW846 7471A [1]	SW846 7471A [4]
Selenium	0.18 J	0.62	0.18	mg/kg	1	03/29/12	04/01/12	NS	SW846 6010B [2]	SW846 3050B [3]
Silver	0.072 U	0.62	0.072	mg/kg	1	03/29/12	04/01/12	NS	SW846 6010B [2]	SW846 3050B [3]

(1) Instrument QC Batch: MA6662
(2) Instrument QC Batch: MA6669
(3) Prep QC Batch: MP17208
(4) Prep QC Batch: MP17216

MQL = Method Quantitation Limit
SDL = Sample Detection Limit

U = Indicates a result < SDL
J = Indicates a result > = SDL but < MQL

Accutest Laboratories

Report of Analysis

3.3

3

Client Sample ID:	PIT 1 (C)		
Lab Sample ID:	TC4052-3	**Date Sampled:**	03/25/12
Matrix:	SO - Soil	**Date Received:**	03/26/12
		Percent Solids:	86.3
Project:	Buffalo Speedway / 8357Y		

General Chemistry

Analyte	Result	MQL	SDL	Units	DF	Analyzed	By	Method
Chloride	15.8	2.9	1.2	mg/kg	1	03/27/12 20:32	ES	EPA 300/SW846 9056 M
Solids, Percent	86.3			%	1	03/28/12	KA	SM 2540 G
pH	8.20			su	1	03/27/12 09:00	RA	SW846 9045C

MQL = Method Quantitation Limit
SDL = Sample Detection Limit

U = Indicates a result < SDL
J = Indicates a result > = SDL but < MQL

Report of Analysis

Client Sample ID:	PIT 2 (A)		
Lab Sample ID:	TC4052-4	**Date Sampled:**	03/25/12
Matrix:	SO - Soil	**Date Received:**	03/26/12
Method:	SW846 8260B	**Percent Solids:**	74.7
Project:	Buffalo Speedway / 8357Y		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Q005225.D	1	03/29/12	LT	n/a	n/a	VQ210
Run #2							

	Initial Weight	Final Volume
Run #1	5.18 g	5.0 ml
Run #2		

Purgeable Aromatics

CAS No.	Compound	Result	MQL	SDL	Units	Q
71-43-2	Benzene	0.00068 U	0.0052	0.00068	mg/kg	
108-88-3	Toluene	0.00090 U	0.0052	0.00090	mg/kg	
100-41-4	Ethylbenzene	0.00090 U	0.0052	0.00090	mg/kg	
1330-20-7	Xylene (total)	0.0018 U	0.016	0.0018	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	91%		70-121%
2037-26-5	Toluene-D8	118%		76-132%
460-00-4	4-Bromofluorobenzene	110%		73-165%
17060-07-0	1,2-Dichloroethane-D4	78%		57-122%

U = Not detected SDL - Sample Detection Limit
MQL = Method Quantitation Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

3.4

3

Client Sample ID:	PIT 2 (A)		
Lab Sample ID:	TC4052-4	**Date Sampled:**	03/25/12
Matrix:	SO - Soil	**Date Received:**	03/26/12
Method:	TNRCC 1005 TX1005	**Percent Solids:**	74.7
Project:	Buffalo Speedway / 8357Y		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	LB069221.D	1	03/30/12	NW	03/27/12	OP22763	GLB1012
Run #2							

	Initial Weight	Final Volume
Run #1	10.4 g	10.0 ml
Run #2		

CAS No.	Compound	Result	MQL	SDL	Units	Q
	TPH (C6-C12)	5.3 U	32	5.3	mg/kg	
	TPH (> C12-C28)	5.3 U	32	5.3	mg/kg	
	TPH (> C28-C35)	5.3 U	32	5.3	mg/kg	
	TPH (C6-C35)	5.3 U	32	5.3	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	129%		70-130%
98-08-8	aaa-Trifluorotoluene	115%		70-130%

U = Not detected SDL - Sample Detection Limit
MQL = Method Quantitation Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

3.4

3

Client Sample ID:	PIT 2 (A)		
Lab Sample ID:	TC4052-4	**Date Sampled:**	03/25/12
Matrix:	SO - Soil	**Date Received:**	03/26/12
		Percent Solids:	74.7
Project:	Buffalo Speedway / 8357Y		

Metals Analysis

Analyte	Result	MQL	SDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	1.6	0.80	0.14	mg/kg	1	03/29/12	04/01/12	NS	SW846 6010B [2]	SW846 3050B [3]
Barium	146	16	0.11	mg/kg	1	03/29/12	04/01/12	NS	SW846 6010B [2]	SW846 3050B [3]
Cadmium	0.10 J	0.40	0.022	mg/kg	1	03/29/12	04/01/12	NS	SW846 6010B [2]	SW846 3050B [3]
Chromium	16.3	0.80	0.037	mg/kg	1	03/29/12	04/01/12	NS	SW846 6010B [2]	SW846 3050B [3]
Lead	7.8	0.80	0.080	mg/kg	1	03/29/12	04/01/12	NS	SW846 6010B [2]	SW846 3050B [3]
Mercury	0.024	0.020	0.0079	mg/kg	1	03/30/12	03/30/12	TW	SW846 7471A [1]	SW846 7471A [4]
Selenium	0.42 J	0.80	0.23	mg/kg	1	03/29/12	04/01/12	NS	SW846 6010B [2]	SW846 3050B [3]
Silver	0.16 J	0.80	0.093	mg/kg	1	03/29/12	04/01/12	NS	SW846 6010B [2]	SW846 3050B [3]

(1) Instrument QC Batch: MA6662
(2) Instrument QC Batch: MA6669
(3) Prep QC Batch: MP17208
(4) Prep QC Batch: MP17216

MQL = Method Quantitation Limit
SDL = Sample Detection Limit

U = Indicates a result < SDL
J = Indicates a result > = SDL but < MQL

Accutest Laboratories

Report of Analysis

Client Sample ID:	PIT 2 (A)		
Lab Sample ID:	TC4052-4	**Date Sampled:**	03/25/12
Matrix:	SO - Soil	**Date Received:**	03/26/12
		Percent Solids:	74.7
Project:	Buffalo Speedway / 8357Y		

General Chemistry

Analyte	Result	MQL	SDL	Units	DF	Analyzed	By	Method
Chloride	50.3	3.3	1.3	mg/kg	1	03/27/12 20:49	ES	EPA 300/SW846 9056 M
Solids, Percent	74.7			%	1	03/28/12	KA	SM 2540 G
pH	6.75			su	1	03/27/12 09:00	RA	SW846 9045C

MQL = Method Quantitation Limit
SDL = Sample Detection Limit

U = Indicates a result < SDL
J = Indicates a result > = SDL but < MQL

Report of Analysis

Client Sample ID:	PIT 2 (B)		
Lab Sample ID:	TC4052-5	**Date Sampled:**	03/25/12
Matrix:	SO - Soil	**Date Received:**	03/26/12
Method:	SW846 8260B	**Percent Solids:**	75.7
Project:	Buffalo Speedway / 8357Y		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Q005226.D	1	03/29/12	LT	n/a	n/a	VQ210
Run #2							

	Initial Weight	Final Volume
Run #1	5.25 g	5.0 ml
Run #2		

Purgeable Aromatics

CAS No.	Compound	Result	MQL	SDL	Units	Q
71-43-2	Benzene	0.00067 U	0.0050	0.00067	mg/kg	
108-88-3	Toluene	0.00088 U	0.0050	0.00088	mg/kg	
100-41-4	Ethylbenzene	0.00087 U	0.0050	0.00087	mg/kg	
1330-20-7	Xylene (total)	0.0017 U	0.015	0.0017	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	90%		70-121%
2037-26-5	Toluene-D8	119%		76-132%
460-00-4	4-Bromofluorobenzene	111%		73-165%
17060-07-0	1,2-Dichloroethane-D4	80%		57-122%

U = Not detected SDL - Sample Detection Limit
MQL = Method Quantitation Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

3.5

3

Client Sample ID:	PIT 2 (B)		
Lab Sample ID:	TC4052-5	**Date Sampled:**	03/25/12
Matrix:	SO - Soil	**Date Received:**	03/26/12
Method:	TNRCC 1005 TX1005	**Percent Solids:**	75.7
Project:	Buffalo Speedway / 8357Y		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	LF069222.D	1	03/30/12	NW	03/27/12	OP22763	GLF1012
Run #2							

	Initial Weight	Final Volume
Run #1	10.3 g	10.0 ml
Run #2		

CAS No.	Compound	Result	MQL	SDL	Units	Q
	TPH (C6-C12)	5.3 U	32	5.3	mg/kg	
	TPH (>C12-C28)	5.3 U	32	5.3	mg/kg	
	TPH (>C28-C35)	5.3 U	32	5.3	mg/kg	
	TPH (C6-C35)	5.3 U	32	5.3	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	124%		70-130%
98-08-8	aaa-Trifluorotoluene	100%		70-130%

U = Not detected SDL - Sample Detection Limit
MQL = Method Quantitation Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	PIT 2 (B)		
Lab Sample ID:	TC4052-5	**Date Sampled:**	03/25/12
Matrix:	SO - Soil	**Date Received:**	03/26/12
		Percent Solids:	75.7
Project:	Buffalo Speedway / 8357Y		

Metals Analysis

Analyte	Result	MQL	SDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	1.7	0.75	0.13	mg/kg	1	03/29/12	04/01/12	NS	SW846 6010B [2]	SW846 3050B [3]
Barium	120	15	0.10	mg/kg	1	03/29/12	04/01/12	NS	SW846 6010B [2]	SW846 3050B [3]
Cadmium	0.096 J	0.38	0.021	mg/kg	1	03/29/12	04/01/12	NS	SW846 6010B [2]	SW846 3050B [3]
Chromium	12.0	0.75	0.035	mg/kg	1	03/29/12	04/01/12	NS	SW846 6010B [2]	SW846 3050B [3]
Lead	9.6	0.75	0.075	mg/kg	1	03/29/12	04/01/12	NS	SW846 6010B [2]	SW846 3050B [3]
Mercury	0.017 J	0.020	0.0079	mg/kg	1	03/30/12	03/30/12	TW	SW846 7471A [1]	SW846 7471A [4]
Selenium	0.35 J	0.75	0.22	mg/kg	1	03/29/12	04/01/12	NS	SW846 6010B [2]	SW846 3050B [3]
Silver	0.14 J	0.75	0.088	mg/kg	1	03/29/12	04/01/12	NS	SW846 6010B [2]	SW846 3050B [3]

(1) Instrument QC Batch: MA6662
(2) Instrument QC Batch: MA6669
(3) Prep QC Batch: MP17208
(4) Prep QC Batch: MP17216

MQL = Method Quantitation Limit
SDL = Sample Detection Limit

U = Indicates a result < SDL
J = Indicates a result > = SDL but < MQL

Accutest Laboratories

Report of Analysis

3.5

3

Client Sample ID:	PIT 2 (B)		
Lab Sample ID:	TC4052-5	**Date Sampled:**	03/25/12
Matrix:	SO - Soil	**Date Received:**	03/26/12
		Percent Solids:	75.7
Project:	Buffalo Speedway / 8357Y		

General Chemistry

Analyte	Result	MQL	SDL	Units	DF	Analyzed	By	Method
Chloride	18.5	3.3	1.3	mg/kg	1	03/27/12 21:06	ES	EPA 300/SW846 9056 M
Solids, Percent	75.7			%	1	03/28/12	KA	SM 2540 G
pH	7.29			su	1	03/27/12 09:00	RA	SW846 9045C

MQL = Method Quantitation Limit
SDL = Sample Detection Limit

U = Indicates a result < SDL
J = Indicates a result > = SDL but < MQL

Accutest Laboratories

Report of Analysis

3.6

3

Client Sample ID:	PIT 2 (C)		
Lab Sample ID:	TC4052-6	**Date Sampled:**	03/25/12
Matrix:	SO - Soil	**Date Received:**	03/26/12
Method:	SW846 8260B	**Percent Solids:**	79.4
Project:	Buffalo Speedway / 8357Y		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Q005227.D	1	03/29/12	LT	n/a	n/a	VQ210
Run #2							

	Initial Weight	Final Volume
Run #1	5.40 g	5.0 ml
Run #2		

Purgeable Aromatics

CAS No.	Compound	Result	MQL	SDL	Units	Q
71-43-2	Benzene	0.00062 U	0.0047	0.00062	mg/kg	
108-88-3	Toluene	0.00081 U	0.0047	0.00081	mg/kg	
100-41-4	Ethylbenzene	0.00081 U	0.0047	0.00081	mg/kg	
1330-20-7	Xylene (total)	0.0016 U	0.014	0.0016	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	92%		70-121%
2037-26-5	Toluene-D8	118%		76-132%
460-00-4	4-Bromofluorobenzene	109%		73-165%
17060-07-0	1,2-Dichloroethane-D4	82%		57-122%

U = Not detected SDL - Sample Detection Limit
MQL = Method Quantitation Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	PIT 2 (C)		
Lab Sample ID:	TC4052-6	**Date Sampled:**	03/25/12
Matrix:	SO - Soil	**Date Received:**	03/26/12
Method:	TNRCC 1005 TX1005	**Percent Solids:**	79.4
Project:	Buffalo Speedway / 8357Y		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	LB069223.D	1	03/30/12	NW	03/27/12	OP22763	GLB1012
Run #2							

	Initial Weight	Final Volume
Run #1	10.3 g	10.0 ml
Run #2		

CAS No.	Compound	Result	MQL	SDL	Units	Q
	TPH (C6-C12)	5.1 U	31	5.1	mg/kg	
	TPH (>C12-C28)	5.1 U	31	5.1	mg/kg	
	TPH (>C28-C35)	5.1 U	31	5.1	mg/kg	
	TPH (C6-C35)	5.1 U	31	5.1	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	130%		70-130%
98-08-8	aaa-Trifluorotoluene	122%		70-130%

U = Not detected SDL - Sample Detection Limit
MQL = Method Quantitation Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	PIT 2 (C)		
Lab Sample ID:	TC4052-6	**Date Sampled:**	03/25/12
Matrix:	SO - Soil	**Date Received:**	03/26/12
		Percent Solids:	79.4
Project:	Buffalo Speedway / 8357Y		

Metals Analysis

Analyte	Result	MQL	SDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	2.0	0.73	0.12	mg/kg	1	03/29/12	04/01/12	NS	SW846 6010B [2]	SW846 3050B [3]
Barium	89.2	15	0.10	mg/kg	1	03/29/12	04/01/12	NS	SW846 6010B [2]	SW846 3050B [3]
Cadmium	0.087 J	0.36	0.020	mg/kg	1	03/29/12	04/01/12	NS	SW846 6010B [2]	SW846 3050B [3]
Chromium	7.6	0.73	0.033	mg/kg	1	03/29/12	04/01/12	NS	SW846 6010B [2]	SW846 3050B [3]
Lead	6.6	0.73	0.073	mg/kg	1	03/29/12	04/01/12	NS	SW846 6010B [2]	SW846 3050B [3]
Mercury	0.014 J	0.019	0.0077	mg/kg	1	03/30/12	03/30/12	TW	SW846 7471A [1]	SW846 7471A [4]
Selenium	0.42 J	0.73	0.21	mg/kg	1	03/29/12	04/01/12	NS	SW846 6010B [2]	SW846 3050B [3]
Silver	0.084 U	0.73	0.084	mg/kg	1	03/29/12	04/01/12	NS	SW846 6010B [2]	SW846 3050B [3]

(1) Instrument QC Batch: MA6662
(2) Instrument QC Batch: MA6669
(3) Prep QC Batch: MP17208
(4) Prep QC Batch: MP17216

MQL = Method Quantitation Limit
SDL = Sample Detection Limit

U = Indicates a result < SDL
J = Indicates a result > = SDL but < MQL

Report of Analysis

3.6

3

Client Sample ID:	PIT 2 (C)		
Lab Sample ID:	TC4052-6	**Date Sampled:**	03/25/12
Matrix:	SO - Soil	**Date Received:**	03/26/12
		Percent Solids:	79.4
Project:	Buffalo Speedway / 8357Y		

General Chemistry

Analyte	Result	MQL	SDL	Units	DF	Analyzed	By	Method
Chloride	42.9	3.1	1.3	mg/kg	1	03/27/12 21:23	ES	EPA 300/SW846 9056 M
Solids, Percent	79.4			%	1	03/28/12	KA	SM 2540 G
pH	7.35			su	1	03/27/12 09:00	RA	SW846 9045C

MQL = Method Quantitation Limit
SDL = Sample Detection Limit

U = Indicates a result < SDL
J = Indicates a result > = SDL but < MQL

Report of Analysis

Client Sample ID:	WELL A		
Lab Sample ID:	TC4052-7	**Date Sampled:**	03/25/12
Matrix:	SO - Soil	**Date Received:**	03/26/12
Method:	SW846 8260B	**Percent Solids:**	84.0
Project:	Buffalo Speedway / 8357Y		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Q005250.D	1	03/30/12	LT	n/a	n/a	VQ211
Run #2							

	Initial Weight	Final Volume
Run #1	5.14 g	5.0 ml
Run #2		

Purgeable Aromatics

CAS No.	Compound	Result	MQL	SDL	Units	Q
71-43-2	Benzene	0.00061 U	0.0046	0.00061	mg/kg	
108-88-3	Toluene	0.00081 U	0.0046	0.00081	mg/kg	
100-41-4	Ethylbenzene	0.00080 U	0.0046	0.00080	mg/kg	
1330-20-7	Xylene (total)	0.0016 U	0.014	0.0016	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	93%		70-121%
2037-26-5	Toluene-D8	121%		76-132%
460-00-4	4-Bromofluorobenzene	129%		73-165%
17060-07-0	1,2-Dichloroethane-D4	80%		57-122%

U = Not detected SDL - Sample Detection Limit
MQL = Method Quantitation Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

3.7 3

Client Sample ID:	WELL A		
Lab Sample ID:	TC4052-7	**Date Sampled:**	03/25/12
Matrix:	SO - Soil	**Date Received:**	03/26/12
Method:	TNRCC 1005 TX1005	**Percent Solids:**	84.0
Project:	Buffalo Speedway / 8357Y		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	LF069234.D	1	03/30/12	NW	03/27/12	OP22763	GLF1012
Run #2							

	Initial Weight	Final Volume
Run #1	10.4 g	10.0 ml
Run #2		

CAS No.	Compound	Result	MQL	SDL	Units	Q
	TPH (C6-C12)	4.8 U	29	4.8	mg/kg	
	TPH (>C12-C28)	4.8 U	29	4.8	mg/kg	
	TPH (>C28-C35)	4.8 U	29	4.8	mg/kg	
	TPH (C6-C35)	4.8 U	29	4.8	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	120%		70-130%
98-08-8	aaa-Trifluorotoluene	100%		70-130%

U = Not detected SDL - Sample Detection Limit
MQL = Method Quantitation Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	WELL A		
Lab Sample ID:	TC4052-7	**Date Sampled:**	03/25/12
Matrix:	SO - Soil	**Date Received:**	03/26/12
		Percent Solids:	84.0
Project:	Buffalo Speedway / 8357Y		

Metals Analysis

Analyte	Result	MQL	SDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	4.0	0.69	0.12	mg/kg	1	03/29/12	04/01/12	NS	SW846 6010B [2]	SW846 3050B [3]
Barium	57.1	14	0.094	mg/kg	1	03/29/12	04/01/12	NS	SW846 6010B [2]	SW846 3050B [3]
Cadmium	0.18 J	0.34	0.019	mg/kg	1	03/29/12	04/01/12	NS	SW846 6010B [2]	SW846 3050B [3]
Chromium	7.8	0.69	0.032	mg/kg	1	03/29/12	04/01/12	NS	SW846 6010B [2]	SW846 3050B [3]
Lead	407	0.69	0.069	mg/kg	1	03/29/12	04/01/12	NS	SW846 6010B [2]	SW846 3050B [3]
Mercury	0.031	0.019	0.0077	mg/kg	1	03/30/12	03/30/12	TW	SW846 7471A [1]	SW846 7471A [4]
Selenium	0.30 J	0.69	0.20	mg/kg	1	03/29/12	04/01/12	NS	SW846 6010B [2]	SW846 3050B [3]
Silver	0.080 U	0.69	0.080	mg/kg	1	03/29/12	04/01/12	NS	SW846 6010B [2]	SW846 3050B [3]

(1) Instrument QC Batch: MA6662
(2) Instrument QC Batch: MA6669
(3) Prep QC Batch: MP17208
(4) Prep QC Batch: MP17216

MQL = Method Quantitation Limit
SDL = Sample Detection Limit

U = Indicates a result < SDL
J = Indicates a result > = SDL but < MQL

Report of Analysis

Client Sample ID:	WELL A		
Lab Sample ID:	TC4052-7	**Date Sampled:**	03/25/12
Matrix:	SO - Soil	**Date Received:**	03/26/12
		Percent Solids:	84.0
Project:	Buffalo Speedway / 8357Y		

General Chemistry

Analyte	Result	MQL	SDL	Units	DF	Analyzed	By	Method
Chloride	49.8	3.0	1.2	mg/kg	1	03/27/12 21:40	ES	EPA 300/SW846 9056 M
Solids, Percent	84			%	1	03/28/12	KA	SM 2540 G
pH	8.09			su	1	03/27/12 09:00	RA	SW846 9045C

MQL = Method Quantitation Limit
SDL = Sample Detection Limit

U = Indicates a result < SDL
J = Indicates a result > = SDL but < MQL

Report of Analysis

Client Sample ID:	WELL C		
Lab Sample ID:	TC4052-8	**Date Sampled:**	03/25/12
Matrix:	SO - Soil	**Date Received:**	03/26/12
Method:	SW846 8260B	**Percent Solids:**	80.8
Project:	Buffalo Speedway / 8357Y		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	M0041125.D	1	03/29/12	LT	n/a	n/a	VM1682
Run #2 [a]	Q005251.D	1	03/30/12	LT	n/a	n/a	VQ211

	Initial Weight	Final Volume
Run #1	5.17 g	5.0 ml
Run #2	5.28 g	5.0 ml

Purgeable Aromatics

CAS No.	Compound	Result	MQL	SDL	Units	Q
71-43-2	Benzene	0.00063 U	0.0048	0.00063	mg/kg	
108-88-3	Toluene	0.00084 U	0.0048	0.00084	mg/kg	
100-41-4	Ethylbenzene	0.00083 U	0.0048	0.00083	mg/kg	
1330-20-7	Xylene (total)	0.0016 U	0.014	0.0016	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	105%	92%	70-121%
2037-26-5	Toluene-D8	122%	123%	76-132%
460-00-4	4-Bromofluorobenzene	152%	137%	73-165%
17060-07-0	1,2-Dichloroethane-D4	89%	80%	57-122%

(a) Confirmation run.

U = Not detected SDL - Sample Detection Limit
MQL = Method Quantitation Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	WELL C		
Lab Sample ID:	TC4052-8	**Date Sampled:**	03/25/12
Matrix:	SO - Soil	**Date Received:**	03/26/12
Method:	TNRCC 1005 TX1005	**Percent Solids:**	80.8
Project:	Buffalo Speedway / 8357Y		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	LB069235.D	1	03/30/12	NW	03/27/12	OP22763	GLB1012
Run #2							

	Initial Weight	Final Volume
Run #1	10.3 g	10.0 ml
Run #2		

CAS No.	Compound	Result	MQL	SDL	Units	Q
	TPH (C6-C12)	5.0 U	30	5.0	mg/kg	
	TPH (>C12-C28)	150	30	5.0	mg/kg	
	TPH (>C28-C35)	266	30	5.0	mg/kg	
	TPH (C6-C35)	416	30	5.0	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	119%		70-130%
98-08-8	aaa-Trifluorotoluene	109%		70-130%

U = Not detected SDL - Sample Detection Limit
MQL = Method Quantitation Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	WELL C		
Lab Sample ID:	TC4052-8	**Date Sampled:**	03/25/12
Matrix:	SO - Soil	**Date Received:**	03/26/12
		Percent Solids:	80.8
Project:	Buffalo Speedway / 8357Y		

Metals Analysis

Analyte	Result	MQL	SDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	2.5	0.69	0.12	mg/kg	1	03/29/12	04/01/12	NS	SW846 6010B [2]	SW846 3050B [3]
Barium	52.1	14	0.095	mg/kg	1	03/29/12	04/01/12	NS	SW846 6010B [2]	SW846 3050B [3]
Cadmium	0.082 J	0.34	0.019	mg/kg	1	03/29/12	04/01/12	NS	SW846 6010B [2]	SW846 3050B [3]
Chromium	14.6	0.69	0.032	mg/kg	1	03/29/12	04/01/12	NS	SW846 6010B [2]	SW846 3050B [3]
Lead	8.6	0.69	0.069	mg/kg	1	03/29/12	04/01/12	NS	SW846 6010B [2]	SW846 3050B [3]
Mercury	0.0080 U	0.020	0.0080	mg/kg	1	03/30/12	03/30/12	TW	SW846 7471A [1]	SW846 7471A [4]
Selenium	0.28 J	0.69	0.20	mg/kg	1	03/29/12	04/01/12	NS	SW846 6010B [2]	SW846 3050B [3]
Silver	0.11 J	0.69	0.080	mg/kg	1	03/29/12	04/01/12	NS	SW846 6010B [2]	SW846 3050B [3]

(1) Instrument QC Batch: MA6662
(2) Instrument QC Batch: MA6669
(3) Prep QC Batch: MP17208
(4) Prep QC Batch: MP17216

MQL = Method Quantitation Limit
SDL = Sample Detection Limit

U = Indicates a result < SDL
J = Indicates a result > = SDL but < MQL

Report of Analysis

Client Sample ID:	WELL C		
Lab Sample ID:	TC4052-8	**Date Sampled:**	03/25/12
Matrix:	SO - Soil	**Date Received:**	03/26/12
		Percent Solids:	80.8
Project:	Buffalo Speedway / 8357Y		

General Chemistry

Analyte	Result	MQL	SDL	Units	DF	Analyzed	By	Method
Chloride	99.7	3.1	1.2	mg/kg	1	03/27/12 21:57	ES	EPA 300/SW846 9056 M
Solids, Percent	80.8			%	1	03/28/12	KA	SM 2540 G
pH	7.45			su	1	03/27/12 09:00	RA	SW846 9045C

MQL = Method Quantitation Limit
SDL = Sample Detection Limit

U = Indicates a result < SDL
J = Indicates a result > = SDL but < MQL

Accutest Laboratories

Report of Analysis

3.9

3

Client Sample ID:	WELL D		
Lab Sample ID:	TC4052-9	**Date Sampled:**	03/25/12
Matrix:	SO - Soil	**Date Received:**	03/26/12
Method:	SW846 8260B	**Percent Solids:**	80.9
Project:	Buffalo Speedway / 8357Y		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	M0041126.D	1	03/29/12	LT	n/a	n/a	VM1682
Run #2							

	Initial Weight	Final Volume
Run #1	5.60 g	5.0 ml
Run #2		

Purgeable Aromatics

CAS No.	Compound	Result	MQL	SDL	Units	Q
71-43-2	Benzene	0.00058 U	0.0044	0.00058	mg/kg	
108-88-3	Toluene	0.00077 U	0.0044	0.00077	mg/kg	
100-41-4	Ethylbenzene	0.00077 U	0.0044	0.00077	mg/kg	
1330-20-7	Xylene (total)	0.0015 U	0.013	0.0015	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	102%		70-121%
2037-26-5	Toluene-D8	109%		76-132%
460-00-4	4-Bromofluorobenzene	112%		73-165%
17060-07-0	1,2-Dichloroethane-D4	92%		57-122%

U = Not detected SDL - Sample Detection Limit
MQL = Method Quantitation Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

3.9

3

Client Sample ID:	WELL D		
Lab Sample ID:	TC4052-9	**Date Sampled:**	03/25/12
Matrix:	SO - Soil	**Date Received:**	03/26/12
Method:	TNRCC 1005 TX1005	**Percent Solids:**	80.9
Project:	Buffalo Speedway / 8357Y		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	LF069226.D	1	03/30/12	NW	03/27/12	OP22763	GLF1012
Run #2							

	Initial Weight	Final Volume
Run #1	10.3 g	10.0 ml
Run #2		

CAS No.	Compound	Result	MQL	SDL	Units	Q
	TPH (C6-C12)	5.0 U	30	5.0	mg/kg	
	TPH (>C12-C28)	5.0 U	30	5.0	mg/kg	
	TPH (>C28-C35)	5.0 U	30	5.0	mg/kg	
	TPH (C6-C35)	5.0 U	30	5.0	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	123%		70-130%
98-08-8	aaa-Trifluorotoluene	99%		70-130%

U = Not detected SDL - Sample Detection Limit
MQL = Method Quantitation Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	WELL D		
Lab Sample ID:	TC4052-9	**Date Sampled:**	03/25/12
Matrix:	SO - Soil	**Date Received:**	03/26/12
		Percent Solids:	80.9
Project:	Buffalo Speedway / 8357Y		

Metals Analysis

Analyte	Result	MQL	SDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	1.6	0.72	0.12	mg/kg	1	03/29/12	04/01/12	NS	SW846 6010B [2]	SW846 3050B [3]
Barium	63.9	14	0.099	mg/kg	1	03/29/12	04/01/12	NS	SW846 6010B [2]	SW846 3050B [3]
Cadmium	0.081 J	0.36	0.020	mg/kg	1	03/29/12	04/01/12	NS	SW846 6010B [2]	SW846 3050B [3]
Chromium	12.9	0.72	0.033	mg/kg	1	03/29/12	04/01/12	NS	SW846 6010B [2]	SW846 3050B [3]
Lead	6.9	0.72	0.072	mg/kg	1	03/29/12	04/01/12	NS	SW846 6010B [2]	SW846 3050B [3]
Mercury	0.0079 U	0.020	0.0079	mg/kg	1	03/30/12	03/30/12	TW	SW846 7471A [1]	SW846 7471A [4]
Selenium	0.46 J	0.72	0.21	mg/kg	1	03/29/12	04/01/12	NS	SW846 6010B [2]	SW846 3050B [3]
Silver	0.094 J	0.72	0.083	mg/kg	1	03/29/12	04/01/12	NS	SW846 6010B [2]	SW846 3050B [3]

(1) Instrument QC Batch: MA6662
(2) Instrument QC Batch: MA6669
(3) Prep QC Batch: MP17208
(4) Prep QC Batch: MP17216

MQL = Method Quantitation Limit
SDL = Sample Detection Limit

U = Indicates a result < SDL
J = Indicates a result > = SDL but < MQL

Accutest Laboratories

Report of Analysis

3.9

3

Client Sample ID:	WELL D		
Lab Sample ID:	TC4052-9	**Date Sampled:**	03/25/12
Matrix:	SO - Soil	**Date Received:**	03/26/12
		Percent Solids:	80.9
Project:	Buffalo Speedway / 8357Y		

General Chemistry

Analyte	Result	MQL	SDL	Units	DF	Analyzed	By	Method
Chloride	225	15	6.2	mg/kg	5	03/29/12 11:22	RA	EPA 300/SW846 9056 M
Solids, Percent	80.9			%	1	03/28/12	KA	SM 2540 G
pH	7.43			su	1	03/27/12 09:00	RA	SW846 9045C

MQL = Method Quantitation Limit
SDL = Sample Detection Limit

U = Indicates a result < SDL
J = Indicates a result > = SDL but < MQL

Report of Analysis

Client Sample ID:	WELL E		
Lab Sample ID:	TC4052-10	**Date Sampled:**	03/25/12
Matrix:	SO - Soil	**Date Received:**	03/26/12
Method:	SW846 8260B	**Percent Solids:**	79.5
Project:	Buffalo Speedway / 8357Y		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	M0041127.D	1	03/29/12	LT	n/a	n/a	VM1682
Run #2							

	Initial Weight	Final Volume
Run #1	5.55 g	5.0 ml
Run #2		

Purgeable Aromatics

CAS No.	Compound	Result	MQL	SDL	Units	Q
71-43-2	Benzene	0.00060 U	0.0045	0.00060	mg/kg	
108-88-3	Toluene	0.00079 U	0.0045	0.00079	mg/kg	
100-41-4	Ethylbenzene	0.00079 U	0.0045	0.00079	mg/kg	
1330-20-7	Xylene (total)	0.0015 U	0.014	0.0015	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	104%		70-121%
2037-26-5	Toluene-D8	108%		76-132%
460-00-4	4-Bromofluorobenzene	110%		73-165%
17060-07-0	1,2-Dichloroethane-D4	92%		57-122%

U = Not detected SDL - Sample Detection Limit
MQL = Method Quantitation Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	WELL E		
Lab Sample ID:	TC4052-10	**Date Sampled:**	03/25/12
Matrix:	SO - Soil	**Date Received:**	03/26/12
Method:	TNRCC 1005 TX1005	**Percent Solids:**	79.5
Project:	Buffalo Speedway / 8357Y		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	LB069217.D	1	03/30/12	NW	03/27/12	OP22763	GLB1012
Run #2							

	Initial Weight	Final Volume
Run #1	10.1 g	10.0 ml
Run #2		

CAS No.	Compound	Result	MQL	SDL	Units	Q
	TPH (C6-C12)	5.1 U	31	5.1	mg/kg	
	TPH (>C12-C28)	5.2 U	31	5.2	mg/kg	
	TPH (>C28-C35)	5.2 U	31	5.2	mg/kg	
	TPH (C6-C35)	5.1 U	31	5.1	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	130%		70-130%
98-08-8	aaa-Trifluorotoluene	121%		70-130%

U = Not detected SDL - Sample Detection Limit
MQL = Method Quantitation Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	WELL E		
Lab Sample ID:	TC4052-10	**Date Sampled:**	03/25/12
Matrix:	SO - Soil	**Date Received:**	03/26/12
		Percent Solids:	79.5
Project:	Buffalo Speedway / 8357Y		

Metals Analysis

Analyte	Result	MQL	SDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	1.5	0.73	0.12	mg/kg	1	03/29/12	04/01/12	NS	SW846 6010B [2]	SW846 3050B [3]
Barium	57.3	15	0.099	mg/kg	1	03/29/12	04/01/12	NS	SW846 6010B [2]	SW846 3050B [3]
Cadmium	0.080 J	0.36	0.020	mg/kg	1	03/29/12	04/01/12	NS	SW846 6010B [2]	SW846 3050B [3]
Chromium	13.6	0.73	0.033	mg/kg	1	03/29/12	04/01/12	NS	SW846 6010B [2]	SW846 3050B [3]
Lead	8.3	0.73	0.073	mg/kg	1	03/29/12	04/01/12	NS	SW846 6010B [2]	SW846 3050B [3]
Mercury	0.0094 J	0.020	0.0080	mg/kg	1	03/30/12	03/30/12	TW	SW846 7471A [1]	SW846 7471A [4]
Selenium	0.30 J	0.73	0.21	mg/kg	1	03/29/12	04/01/12	NS	SW846 6010B [2]	SW846 3050B [3]
Silver	0.094 J	0.73	0.084	mg/kg	1	03/29/12	04/01/12	NS	SW846 6010B [2]	SW846 3050B [3]

(1) Instrument QC Batch: MA6662
(2) Instrument QC Batch: MA6669
(3) Prep QC Batch: MP17208
(4) Prep QC Batch: MP17216

MQL = Method Quantitation Limit
SDL = Sample Detection Limit

U = Indicates a result < SDL
J = Indicates a result > = SDL but < MQL

Report of Analysis

Client Sample ID:	WELL E		
Lab Sample ID:	TC4052-10	**Date Sampled:**	03/25/12
Matrix:	SO - Soil	**Date Received:**	03/26/12
		Percent Solids:	79.5
Project:	Buffalo Speedway / 8357Y		

General Chemistry

Analyte	Result	MQL	SDL	Units	DF	Analyzed	By	Method
Chloride	71.8	3.1	1.3	mg/kg	1	03/27/12 23:05	ES	EPA 300/SW846 9056 M
Solids, Percent	79.5			%	1	03/28/12	KA	SM 2540 G
pH	7.63			su	1	03/27/12 09:00	RA	SW846 9045C

MQL = Method Quantitation Limit
SDL = Sample Detection Limit

U = Indicates a result < SDL
J = Indicates a result > = SDL but < MQL

Report of Analysis

Client Sample ID:	WELL F		
Lab Sample ID:	TC4052-11	**Date Sampled:**	03/25/12
Matrix:	SO - Soil	**Date Received:**	03/26/12
Method:	SW846 8260B	**Percent Solids:**	82.8
Project:	Buffalo Speedway / 8357Y		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	M0041128.D	1	03/29/12	LT	n/a	n/a	VM1682
Run #2							

	Initial Weight	Final Volume
Run #1	5.27 g	5.0 ml
Run #2		

Purgeable Aromatics

CAS No.	Compound	Result	MQL	SDL	Units	Q
71-43-2	Benzene	0.00061 U	0.0046	0.00061	mg/kg	
108-88-3	Toluene	0.00080 U	0.0046	0.00080	mg/kg	
100-41-4	Ethylbenzene	0.00080 U	0.0046	0.00080	mg/kg	
1330-20-7	Xylene (total)	0.0016 U	0.014	0.0016	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	105%		70-121%
2037-26-5	Toluene-D8	109%		76-132%
460-00-4	4-Bromofluorobenzene	107%		73-165%
17060-07-0	1,2-Dichloroethane-D4	96%		57-122%

U = Not detected SDL - Sample Detection Limit
MQL = Method Quantitation Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	WELL F		
Lab Sample ID:	TC4052-11	**Date Sampled:**	03/25/12
Matrix:	SO - Soil	**Date Received:**	03/26/12
Method:	TNRCC 1005 TX1005	**Percent Solids:**	82.8
Project:	Buffalo Speedway / 8357Y		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	LB069231.D	1	03/30/12	NW	03/27/12	OP22763	GLB1012
Run #2							

	Initial Weight	Final Volume
Run #1	10.2 g	10.0 ml
Run #2		

CAS No.	Compound	Result	MQL	SDL	Units	Q
	TPH (C6-C12)	4.9 U	30	4.9	mg/kg	
	TPH (>C12-C28)	4.9 U	30	4.9	mg/kg	
	TPH (>C28-C35)	4.9 U	30	4.9	mg/kg	
	TPH (C6-C35)	4.9 U	30	4.9	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	159% [a]		70-130%
98-08-8	aaa-Trifluorotoluene	133% [a]		70-130%

(a) Outside control limits biased high. Only ND results are reported.

U = Not detected SDL - Sample Detection Limit
MQL = Method Quantitation Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	WELL F		
Lab Sample ID:	TC4052-11	**Date Sampled:**	03/25/12
Matrix:	SO - Soil	**Date Received:**	03/26/12
		Percent Solids:	82.8
Project:	Buffalo Speedway / 8357Y		

Metals Analysis

Analyte	Result	MQL	SDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	2.3	0.70	0.12	mg/kg	1	03/29/12	04/01/12	NS	SW846 6010B [2]	SW846 3050B [3]
Barium	129	14	0.096	mg/kg	1	03/29/12	04/01/12	NS	SW846 6010B [2]	SW846 3050B [3]
Cadmium	0.085 J	0.35	0.020	mg/kg	1	03/29/12	04/01/12	NS	SW846 6010B [2]	SW846 3050B [3]
Chromium	15.2	0.70	0.032	mg/kg	1	03/29/12	04/01/12	NS	SW846 6010B [2]	SW846 3050B [3]
Lead	8.6	0.70	0.070	mg/kg	1	03/29/12	04/01/12	NS	SW846 6010B [2]	SW846 3050B [3]
Mercury	0.014 J	0.019	0.0075	mg/kg	1	03/30/12	03/30/12	TW	SW846 7471A [1]	SW846 7471A [4]
Selenium	0.25 J	0.70	0.20	mg/kg	1	03/29/12	04/01/12	NS	SW846 6010B [2]	SW846 3050B [3]
Silver	0.10 J	0.70	0.081	mg/kg	1	03/29/12	04/01/12	NS	SW846 6010B [2]	SW846 3050B [3]

(1) Instrument QC Batch: MA6662
(2) Instrument QC Batch: MA6669
(3) Prep QC Batch: MP17208
(4) Prep QC Batch: MP17216

MQL = Method Quantitation Limit
SDL = Sample Detection Limit

U = Indicates a result < SDL
J = Indicates a result > = SDL but < MQL

Report of Analysis

Client Sample ID:	WELL F		
Lab Sample ID:	TC4052-11	**Date Sampled:**	03/25/12
Matrix:	SO - Soil	**Date Received:**	03/26/12
		Percent Solids:	82.8
Project:	Buffalo Speedway / 8357Y		

General Chemistry

Analyte	Result	MQL	SDL	Units	DF	Analyzed	By	Method
Chloride	112	15	6.0	mg/kg	5	03/29/12 11:39	RA	EPA 300/SW846 9056 M
Solids, Percent	82.8			%	1	03/28/12	KA	SM 2540 G
pH	8.46			su	1	03/27/12 09:00	RA	SW846 9045C

MQL = Method Quantitation Limit
SDL = Sample Detection Limit

U = Indicates a result < SDL
J = Indicates a result > = SDL but < MQL

Report of Analysis

Client Sample ID:	WELL G (1)		
Lab Sample ID:	TC4052-12	**Date Sampled:**	03/25/12
Matrix:	SO - Soil	**Date Received:**	03/26/12
Method:	SW846 8260B	**Percent Solids:**	87.7
Project:	Buffalo Speedway / 8357Y		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	M0041129.D	1	03/29/12	LT	n/a	n/a	VM1682
Run #2							

	Initial Weight	Final Volume
Run #1	5.16 g	5.0 ml
Run #2		

Purgeable Aromatics

CAS No.	Compound	Result	MQL	SDL	Units	Q
71-43-2	Benzene	0.00059 U	0.0044	0.00059	mg/kg	
108-88-3	Toluene	0.00077 U	0.0044	0.00077	mg/kg	
100-41-4	Ethylbenzene	0.00077 U	0.0044	0.00077	mg/kg	
1330-20-7	Xylene (total)	0.0015 U	0.013	0.0015	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	103%		70-121%
2037-26-5	Toluene-D8	111%		76-132%
460-00-4	4-Bromofluorobenzene	109%		73-165%
17060-07-0	1,2-Dichloroethane-D4	92%		57-122%

U = Not detected SDL - Sample Detection Limit
MQL = Method Quantitation Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	WELL G (1)		
Lab Sample ID:	TC4052-12	**Date Sampled:**	03/25/12
Matrix:	SO - Soil	**Date Received:**	03/26/12
Method:	TNRCC 1005 TX1005	**Percent Solids:**	87.7
Project:	Buffalo Speedway / 8357Y		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	LF069232.D	1	03/30/12	NW	03/27/12	OP22763	GLF1012
Run #2							

	Initial Weight	Final Volume
Run #1	10.6 g	10.0 ml
Run #2		

CAS No.	Compound	Result	MQL	SDL	Units	Q
	TPH (C6-C12)	4.5 U	27	4.5	mg/kg	
	TPH (> C12-C28)	4.5 U	27	4.5	mg/kg	
	TPH (> C28-C35)	4.5 U	27	4.5	mg/kg	
	TPH (C6-C35)	4.5 U	27	4.5	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	145% [a]		70-130%
98-08-8	aaa-Trifluorotoluene	112%		70-130%

(a) Outside control limits biased high. Only ND results are reported.

U = Not detected SDL - Sample Detection Limit
MQL = Method Quantitation Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	WELL G (1)		
Lab Sample ID:	TC4052-12	**Date Sampled:**	03/25/12
Matrix:	SO - Soil	**Date Received:**	03/26/12
		Percent Solids:	87.7
Project:	Buffalo Speedway / 8357Y		

Metals Analysis

Analyte	Result	MQL	SDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	3.9	0.66	0.11	mg/kg	1	03/29/12	04/01/12	NS	SW846 6010B [2]	SW846 3050B [3]
Barium	184	13	0.091	mg/kg	1	03/29/12	04/01/12	NS	SW846 6010B [2]	SW846 3050B [3]
Cadmium	0.096 J	0.33	0.019	mg/kg	1	03/29/12	04/01/12	NS	SW846 6010B [2]	SW846 3050B [3]
Chromium	8.8	0.66	0.030	mg/kg	1	03/29/12	04/01/12	NS	SW846 6010B [2]	SW846 3050B [3]
Lead	4.7	0.66	0.066	mg/kg	1	03/29/12	04/01/12	NS	SW846 6010B [2]	SW846 3050B [3]
Mercury	0.0078 J	0.018	0.0073	mg/kg	1	03/30/12	03/30/12	TW	SW846 7471A [1]	SW846 7471A [4]
Selenium	0.25 J	0.66	0.19	mg/kg	1	03/29/12	04/01/12	NS	SW846 6010B [2]	SW846 3050B [3]
Silver	0.077 U	0.66	0.077	mg/kg	1	03/29/12	04/01/12	NS	SW846 6010B [2]	SW846 3050B [3]

(1) Instrument QC Batch: MA6662
(2) Instrument QC Batch: MA6669
(3) Prep QC Batch: MP17208
(4) Prep QC Batch: MP17216

MQL = Method Quantitation Limit
SDL = Sample Detection Limit

U = Indicates a result < SDL
J = Indicates a result > = SDL but < MQL

Report of Analysis

Client Sample ID:	WELL G (1)		
Lab Sample ID:	TC4052-12	**Date Sampled:**	03/25/12
Matrix:	SO - Soil	**Date Received:**	03/26/12
		Percent Solids:	87.7
Project:	Buffalo Speedway / 8357Y		

General Chemistry

Analyte	Result	MQL	SDL	Units	DF	Analyzed	By	Method
Chloride	12.3	2.8	1.1	mg/kg	1	03/27/12 23:39	ES	EPA 300/SW846 9056 M
Solids, Percent	87.7			%	1	03/28/12	KA	SM 2540 G
pH	8.04			su	1	03/27/12 09:00	RA	SW846 9045C

MQL = Method Quantitation Limit
SDL = Sample Detection Limit

U = Indicates a result < SDL
J = Indicates a result > = SDL but < MQL

Report of Analysis

Client Sample ID:	WELL G (2)		
Lab Sample ID:	TC4052-13	**Date Sampled:**	03/25/12
Matrix:	SO - Soil	**Date Received:**	03/26/12
Method:	SW846 8260B	**Percent Solids:**	83.6
Project:	Buffalo Speedway / 8357Y		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	M0041130.D	1	03/29/12	LT	n/a	n/a	VM1682
Run #2							

	Initial Weight	Final Volume
Run #1	5.30 g	5.0 ml
Run #2		

Purgeable Aromatics

CAS No.	Compound	Result	MQL	SDL	Units	Q
71-43-2	Benzene	0.00060 U	0.0045	0.00060	mg/kg	
108-88-3	Toluene	0.00079 U	0.0045	0.00079	mg/kg	
100-41-4	Ethylbenzene	0.00078 U	0.0045	0.00078	mg/kg	
1330-20-7	Xylene (total)	0.0015 U	0.014	0.0015	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	108%		70-121%
2037-26-5	Toluene-D8	113%		76-132%
460-00-4	4-Bromofluorobenzene	111%		73-165%
17060-07-0	1,2-Dichloroethane-D4	103%		57-122%

U = Not detected SDL - Sample Detection Limit
MQL = Method Quantitation Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	WELL G (2)		
Lab Sample ID:	TC4052-13	**Date Sampled:**	03/25/12
Matrix:	SO - Soil	**Date Received:**	03/26/12
Method:	TNRCC 1005 TX1005	**Percent Solids:**	83.6
Project:	Buffalo Speedway / 8357Y		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	LB069233.D	1	03/30/12	NW	03/27/12	OP22763	GLB1012
Run #2							

	Initial Weight	Final Volume
Run #1	10.5 g	10.0 ml
Run #2		

CAS No.	Compound	Result	MQL	SDL	Units	Q
	TPH (C6-C12)	4.7 U	28	4.7	mg/kg	
	TPH (>C12-C28)	4.7 U	28	4.7	mg/kg	
	TPH (>C28-C35)	4.7 U	28	4.7	mg/kg	
	TPH (C6-C35)	4.7 U	28	4.7	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	137% [a]		70-130%
98-08-8	aaa-Trifluorotoluene	121%		70-130%

(a) Outside control limits biased high. Only ND results are reported.

U = Not detected SDL - Sample Detection Limit
MQL = Method Quantitation Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	WELL G (2)		
Lab Sample ID:	TC4052-13	**Date Sampled:**	03/25/12
Matrix:	SO - Soil	**Date Received:**	03/26/12
		Percent Solids:	83.6
Project:	Buffalo Speedway / 8357Y		

Metals Analysis

Analyte	Result	MQL	SDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	3.3	0.70	0.12	mg/kg	1	03/29/12	04/01/12	NS	SW846 6010B [2]	SW846 3050B [3]
Barium	621	14	0.096	mg/kg	1	03/29/12	04/01/12	NS	SW846 6010B [2]	SW846 3050B [3]
Cadmium	0.31 J	0.35	0.020	mg/kg	1	03/29/12	04/01/12	NS	SW846 6010B [2]	SW846 3050B [3]
Chromium	12.5	0.70	0.032	mg/kg	1	03/29/12	04/01/12	NS	SW846 6010B [2]	SW846 3050B [3]
Lead	3.5	0.70	0.070	mg/kg	1	03/29/12	04/01/12	NS	SW846 6010B [2]	SW846 3050B [3]
Mercury	0.0077 U	0.019	0.0077	mg/kg	1	03/30/12	03/30/12	TW	SW846 7471A [1]	SW846 7471A [4]
Selenium	0.30 J	0.70	0.20	mg/kg	1	03/29/12	04/01/12	NS	SW846 6010B [2]	SW846 3050B [3]
Silver	0.081 U	0.70	0.081	mg/kg	1	03/29/12	04/01/12	NS	SW846 6010B [2]	SW846 3050B [3]

(1) Instrument QC Batch: MA6662
(2) Instrument QC Batch: MA6669
(3) Prep QC Batch: MP17208
(4) Prep QC Batch: MP17216

MQL = Method Quantitation Limit
SDL = Sample Detection Limit

U = Indicates a result < SDL
J = Indicates a result > = SDL but < MQL

Report of Analysis

Client Sample ID:	WELL G (2)		
Lab Sample ID:	TC4052-13	**Date Sampled:**	03/25/12
Matrix:	SO - Soil	**Date Received:**	03/26/12
		Percent Solids:	83.6
Project:	Buffalo Speedway / 8357Y		

General Chemistry

Analyte	Result	MQL	SDL	Units	DF	Analyzed	By	Method
Chloride	174	12	4.8	mg/kg	4	03/27/12 23:56	ES	EPA 300/SW846 9056 M
Solids, Percent	83.6			%	1	03/28/12	KA	SM 2540 G
pH	8.72			su	1	03/27/12 09:00	RA	SW846 9045C

MQL = Method Quantitation Limit
SDL = Sample Detection Limit

U = Indicates a result < SDL
J = Indicates a result > = SDL but < MQL

Gulf Coast ACCUTEST LABORATORIES

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody
- LRC Form

CHAIN OF CUSTODY

ACCUTEST LABORATORIES

10165 Harwin Dr, Ste 150 Houston, TX 77036
TEL 713-271-4700 FAX: 713-271-4770
www.accutest.com

FED-EX Tracking #:
Bottle Order Control #:
Accutest Quote #:
Accutest Job #: TC 4052

Client / Reporting Information

Company Name: Berg Oliver Associates
Street Address: 14701 Saint Mary's Lane Suite 400
City: Houston State: TX Zip: 77079
Project Contact: Ben Price E-mail: bprice@bergoliver.com
Phone #: 281-589-0898 Fax #:
Sampler(s) Name(s): Ben Price Phone #:

Project Information

Project Name: 8357Y
Street: Buffalo Speedway
City: State:
Project #:
Client Purchase Order #:
Project Manager: Ben Price
Billing Information (If different from Report to)
Company Name:
Street Address:
City: State: Zip:
Attention:

Requested Analyses

Accutest Sample #	Field ID / Point of Collection	Collection Date	Collection Time	Sampled By	Matrix	# of bottles	HCl	NaOH	ZnAcNaOH	HNO3	H2SO4	NONE	DI Water	MEOH	TSP	NaHSO4	ENCORE	OTHER	TPH/BTEX (1005)	RCRA 8 metals	pH	Chloride	LAB USE ONLY
1	Pit 1 (A)	3:25	9:00	BP	SO														X	X	X	X	
2	Pit 1 (B)		9:45																X	X	X	X	
3	Pit 1 (C)		10:17																X	X	X	X	
4	Pit 2 (A)		10:48																X	X	X	X	
5	Pit 2 (B)		11:10																X	X	X	X	
6	Pit 2 (C)		11:40																X	X	X	X	
7	Well A		12:17																X	X	X	X	
8	Well C		12:44																X	X	X	X	
9	Well D		1:12																X	X	X	X	
10	Well E		1:50																X	X	X	X	
11	Well F		2:17																X	X	X	X	
12	Well G (1)		2:40																X	X	X	X	

Matrix Codes: DW - Drinking Water; GW - Ground Water; WW - Water; SW - Surface Water; SO - Soil; SL - Sludge; SED-Sediment; OI - Oil; LIQ - Other Liquid; AIR - Air; SOL - Other Solid; WP - Wipe; FB-Field Blank

Turnaround Time (Business days)

- [X] Standard 7 cal days
- [ ] 5 Day
- [ ] 4 Day RUSH
- [ ] 3 Day RUSH
- [ ] 2 Day RUSH
- [ ] 1 Day EMERGENCY

Approved By (Accutest PM): / Date:

Emergency & Rush T/A data available VIA Lablink

Data Deliverable Information

- [ ] Commercial "A" (Level 1)
- [ ] Commercial "B" (Level 2)
- [ ] FULT1 (Level 3+4)
- [ ] REDT1 (Level 3+4)
- [ ] Commercial "C"
- [X] TRRP
- [ ] EDD Format
- [ ] Other

Commercial "A" = Results Only
Commercial "B" = Results + QC Summary
Commercial "C" = Results + QC & Surrogate Summary

Comments / Special Instructions

Sample Custody must be documented below each time samples change possession including courier delivery

	Relinquished by Sampler:	Date Time:	Received By:	Relinquished By:	Date Time:	Received By:
1		3.26.12 11:07		3-26-12 16:40		
3	Relinquished by Sampler:	Date Time:	Received By: 3	Relinquished By: 4	Date Time:	Received By: 4
5	Relinquished by:	Date Time:	Received By: 5	Custody Seal #	[ ] Intact [ ] Not intact	Preserved where applicable [ ]

On Ice: ✓ Cooler Temp: 12.6

4.1 4

ACCUTEST

CHAIN OF CUSTODY

10165 Harwin Dr, Ste 150 Houston, TX 77036
TEL: 713-271-4700 FAX: 713-271-4770
www.accutest.com

FED-EX Tracking #:
Bottle Order Control #:
Accutest Quote #:
Accutest Job #: TC 4052

Client / Reporting Information

Company Name: Berg Oliver Associates
Street Address: 14701 Saint Mary's Lane Suite 400
City: Houston State: TX Zip: 77079
Project Contact: Ben Price E-mail: bprice@bergoliver.com
Phone #: 281-589-0878 Fax #:
Sampler(s) Name(s): Ben Price Phone #:

Project Information

Project Name: 8357Y
Street: Buffalo Speedway
City: State:
Project #:
Client Purchase Order #:
Project Manager: Ben Price

Billing Information (If different from Report to)

Company Name:
Street Address:
City: State: Zip:
Attention:

Requested Analyses

Accutest Sample #	Field ID / Point of Collection	Collection Date	Time	Sampled By	Matrix	# of bottles	HCl	NaOH	ZnAcOH	HNO3	H2SO4	NONE	DI Water	MEOH	TSP	NaHSO4	ENCORE	OTHER	TPH/BTEX (8015)	RCRA 8 metals	PH	Chloride
13	Well G (2)	3:25	3:15	BP	GW														X	X	X	X

Matrix Codes: DW - Drinking Water; GW - Ground Water; WW - Water; SW - Surface Water; SO - Soil; SL- Sludge; SED-Sediment; OI - Oil; LIQ - Other Liquid; AIR - Air; SOL - Other Solid; WP - Wipe; FB-Field Blank

LAB USE ONLY

Turnaround Time (Business days)

- [X] Standard 7 cal days
- [ ] 5 Day
- [ ] 4 Day *RUSH*
- [ ] 3 Day *RUSH*
- [ ] 2 Day *RUSH*
- [ ] 1 Day *EMERGENCY*

Approved By (Accutest PM): / Date:

Emergency & Rush T/A data available VIA Lablink

Data Deliverable Information

- [ ] Commercial "A" (Level 1)
- [ ] Commercial "B" (Level 2)
- [ ] FULT1 (Level 3+4)
- [ ] REDT1 (Level 3+4)
- [ ] Commercial "C"
- [X] TRRP
- [ ] EDD Format
- [ ] Other _____

Commercial "A" = Results Only
Commercial "B" = Results + QC Summary
Commercial "C" = Results + QC & Surrogate Summary

Comments / Special Instructions

Sample Custody must be documented below each time samples change possession, including courier delivery.

Relinquished by Sampler:	Date Time:	Received By:	Relinquished By:	Date Time:	Received By:
1	3-26-12 1107	1	2	3-26-12 16:40	2
Relinquished by Sampler: 3	Date Time:	Received By: 3	Relinquished By: 4	Date Time:	Received By: 4
Relinquished by: 5	Date Time:	Received By: 5	Custody Seal #	[ ] Intact [ ] Not intact	Preserved where applicable [ ]

On Ice [X] Cooler Temp 12.6

4.1 4

TC4052: Chain of Custody
Page 2 of 6

ACCUTEST LABORATORIES

Accutest Laboratories Sample Receipt Summary

Accutest Job Number: TC4052 **Client:** BERG OLIVER ASSOCIATES **Project:** 8357Y

Date / Time Received: 3/26/2012 **Delivery Method:** **Airbill #'s:**

No. Coolers: 1 **Therm ID:** LOGINDIG; **Temp Adjustment Factor:** 1;

Cooler Temps (Initial/Adjusted): #1: (11.6/12.6);

Cooler Security	Y	N		Y	N
1. Custody Seals Present:	☑	☐	3. COC Present:	☑	☐
2. Custody Seals Intact:	☑	☐	4. Smpl Dates/Time OK	☑	☐

Cooler Temperature	Y	N
1. Temp criteria achieved:	☑	☐
2. Cooler temp verification:		
3. Cooler media:	Ice (direct contact)	

Quality Control Preservation	Y	N	N/A	WTB	STB
1. Trip Blank present / cooler:	☑	☐	☐	☑	☐
2. Trip Blank listed on COC:	☐	☑	☐		
3. Samples preserved properly:	☑	☐			
4. VOCs headspace free:	☑	☐	☐		

Sample Integrity - Documentation	Y	N
1. Sample labels present on bottles:	☑	☐
2. Container labeling complete:	☑	☐
3. Sample container label / COC agree:	☑	☐

Sample Integrity - Condition	Y	N
1. Sample recvd within HT:	☑	☐
2. All containers accounted for:	☑	☐
3. Condition of sample:	Intact	

Sample Integrity - Instructions	Y	N	N/A
1. Analysis requested is clear:	☑	☐	
2. Bottles received for unspecified tests	☐	☑	
3. Sufficient volume recvd for analysis:	☑	☐	
4. Compositing instructions clear:	☐	☐	☑
5. Filtering instructions clear:	☐	☐	☑

Comments 1) COOLER MEDIA = BLOCKS OF ICE, SAMPLES WERE NOT RECEIVED AT THE CORRECT TEMPERATURE.

2) TRIP BLANK PRESENT BUT NO LISTED ON THE COC. IT WAS PUT AT THE END OF THE JOB.

3) NO LABLES FOUND ON CONTAINERS. THEREFORE, NO COLLECTION DATE OR TIME MARKED ON CONTAINERS. SAMPLE ID WAS HANDWRITTEN ON LID.

Accutest Laboratories
V:713.271.4700

10165 Harwin Drive
F: 713.271.4770

Houston, TX 77036
www.accutest.com

ACCUTEST LABORATORIES

Problem Resolution

Accutest Job Number: TC4052

CSR: Georgia Jones **Response Date:** 4/2/2012

Response: Client is aware of sample temperature. TB not needed.

4.1 4

ACCUTEST LABORATORIES

Sample Receipt Log

Job #: TC4052 **Date / Time Received:** 3/26/2012 4:40:00 PM **Initials:** VM

Client: BERG OLIVER ASSOCIATES

Cooler #	Sample ID:	Vol	Bot #	Location	Pres	pH	Therm ID	Initial Temp	Therm CF	Corrected Temp
1	TC4052-1	8oz	1	2-16	N/P	Note #2 - Preservative check not applicable.	LOGINDIG	11.6	1	12.6
1	TC4052-1	4oz	2	VR	N/P	Note #2 - Preservative check not applicable.	LOGINDIG	11.6	1	12.6
1	TC4052-2	8oz	1	2-16	N/P	Note #2 - Preservative check not applicable.	LOGINDIG	11.6	1	12.6
1	TC4052-2	4oz	2	VR	N/P	Note #2 - Preservative check not applicable.	LOGINDIG	11.6	1	12.6
1	TC4052-3	8oz	1	2-16	N/P	Note #2 - Preservative check not applicable.	LOGINDIG	11.6	1	12.6
1	TC4052-3	4oz	2	VR	N/P	Note #2 - Preservative check not applicable.	LOGINDIG	11.6	1	12.6
1	TC4052-4	8oz	1	2-16	N/P	Note #2 - Preservative check not applicable.	LOGINDIG	11.6	1	12.6
1	TC4052-4	4oz	2	VR	N/P	Note #2 - Preservative check not applicable.	LOGINDIG	11.6	1	12.6
1	TC4052-5	8oz	1	2-16	N/P	Note #2 - Preservative check not applicable.	LOGINDIG	11.6	1	12.6
1	TC4052-5	4oz	2	VR	N/P	Note #2 - Preservative check not applicable.	LOGINDIG	11.6	1	12.6
1	TC4052-6	8oz	1	2-16	N/P	Note #2 - Preservative check not applicable.	LOGINDIG	11.6	1	12.6
1	TC4052-6	4oz	2	VR	N/P	Note #2 - Preservative check not applicable.	LOGINDIG	11.6	1	12.6
1	TC4052-7	8oz	1	2-16	N/P	Note #2 - Preservative check not applicable.	LOGINDIG	11.6	1	12.6
1	TC4052-7	4oz	2	VR	N/P	Note #2 - Preservative check not applicable.	LOGINDIG	11.6	1	12.6
1	TC4052-8	8oz	1	2-16	N/P	Note #2 - Preservative check not applicable.	LOGINDIG	11.6	1	12.6
1	TC4052-8	4oz	2	VR	N/P	Note #2 - Preservative check not applicable.	LOGINDIG	11.6	1	12.6
1	TC4052-9	8oz	1	2-16	N/P	Note #2 - Preservative check not applicable.	LOGINDIG	11.6	1	12.6
1	TC4052-9	4oz	2	VR	N/P	Note #2 - Preservative check not applicable.	LOGINDIG	11.6	1	12.6
1	TC4052-10	8oz	1	2-16	N/P	Note #2 - Preservative check not applicable.	LOGINDIG	11.6	1	12.6
1	TC4052-10	4oz	2	VR	N/P	Note #2 - Preservative check not applicable.	LOGINDIG	11.6	1	12.6
1	TC4052-11	8oz	1	2-16	N/P	Note #2 - Preservative check not applicable.	LOGINDIG	11.6	1	12.6
1	TC4052-11	4oz	2	VR	N/P	Note #2 - Preservative check not applicable.	LOGINDIG	11.6	1	12.6
1	TC4052-12	8oz	1	2-16	N/P	Note #2 - Preservative check not applicable.	LOGINDIG	11.6	1	12.6
1	TC4052-12	4oz	2	VR	N/P	Note #2 - Preservative check not applicable.	LOGINDIG	11.6	1	12.6

ACCUTEST LABORATORIES

Sample Receipt Log

Job #: TC4052 **Date / Time Received:** 3/26/2012 4:40:00 PM **Initials:** VM

Client: BERG OLIVER ASSOCIATES

Cooler #	Sample ID:	Vol	Bot #	Location	Pres	pH	Therm ID	Initial Temp	Therm CF	Corrected Temp
1	TC4052-13	8oz	1	2-16	N/P	Note #2 - Preservative check not applicable.	LOGINDIG	11.6	1	12.6
1	TC4052-13	4oz	2	VR	N/P	Note #2 - Preservative check not applicable.	LOGINDIG	11.6	1	12.6
1	TC4052-14	40ml	1	VR	HCL	Note #1 - Preservative to be checked by analyst at the instrument.	LOGINDIG	11.6	1	12.6
1	TC4052-14	40ml	2	VR	HCL	Note #1 - Preservative to be checked by analyst at the instrument.	LOGINDIG	11.6	1	12.6

Appendix A Laboratory Data Package Cover Page

This data package is for Job No. TC4052 and laboratory batch no(s): VN1682, VQ208, VQ210, VQ211, OP22763, MP17208, MP17216, GP18378, GP18416, GN40760 and GN40748 consist of

- ☐ This signature page, the laboratory review checklist, and the following reportable data:
- ☐ R1 Field chain-of-custody documentation;
- ☐ R2 Sample identification cross-reference;
- ☐ R3 Test reports (analytical data sheets) for each environmental sample that includes:
  - a) Items consistent with NELAC 5.13 or ISO/IEC 17025 Section 5.10
  - b) dilution factors,
  - c) preparation methods,
  - d) cleanup methods, and
  - e) if required for the project, tentatively identified compounds (TICs).
- ☐ R4 Surrogate recovery data including:
  - a) Calculated recovery (%R), and
  - b) The laboratory's surrogate QC limits.
- ☐ R5 Test reports/summary forms for blank samples;
- ☐ R6 Test reports/summary forms for laboratory control samples (LCSs) including:
  - a) LCS spiking amounts,
  - b) Calculated %R for each analyte, and
  - c) The laboratory's LCS QC limits.
- ☐ R7 Test reports for project matrix spike/matrix spike duplicates (MS/MSDs) including:
  - a) Samples associated with the MS/MSD clearly identified,
  - b) MS/MSD spiking amounts,
  - c) Concentration of each MS/MSD analyte measured in the parent and spiked samples,
  - d) Calculated %Rs and relative percent differences (RPDs), and
  - e) The laboratory's MS/MSD QC limits
- ☐ R8 Laboratory analytical duplicate (if applicable) recovery and precision:
  - a) The amount of analyte measured in the duplicate,
  - b) The calculated RPD, and
  - c) The laboratory's QC limits for analytical duplicates.
- ☐ R9 List of method quantitation limits (MQLs) and detectability check sample results for each analyte for each method and matrix;
- ☐ R10 Other problems or anomalies.

The Exception Report for each "No"or "Not Reviewed (NR)" item in Laboratory Review Checklist and for each analyte, matrix, and method for which the laboratory does not hold NELAC accreditation under the Texas Laboratory Accreditation Program.

Release Statement: I am responsible for the release of this laboratory data package. This laboratory is NELAC accredited under the Texas Laboratory Accreditation Program for all the methods, analytes, and matrices reported in this data package except as noted in the Exception Report. This data package has been reviewed by the laboratory and is complete and technically compliant with the requirements of the methods used, except where noted by the laboratory in the attached exception reports. By my signature below, I affirm to the best of my knowledge, all problems/anomalies, observed by the laboratory as having the potential to affect the quality of the data, have been identified by the laboratory in the Laboratory Review Checklist, and no information or data have been knowingly withheld.

Check, if applicable: [ ] This laboratory meets an exception under 30 TAC&25.6 and was last inspected by [X] TCEQ or [ ]_____ on April 2011. Any findings affecting the data in this laboratory data package are noted in the Exception Reports herein. The official signing the cover page of the report in which these data are used is responsible for releasing this data package and is by signature affirming the above release statement is true.

Ted Yen		QA Officer	04/04/2012
Name (Printed)	Signature	Official Title (printed)	Date

Appendix A (cont'd): Laboratory Review Checklist: Reportable Data

Laboratory Name: Accutest Laboratories Gulf Coast	LRC Date: 4/4/2012
Project Name: Buffalo Speedway / 8357Y	Laboratory Job Number: TC4052
Reviewer Name: Ted Yen	Prep Batch Number(s): VN1682, VQ208, VQ210, VQ211, OP22763, MP17208, MP17216, GP18378, GP18416, GN40760 and GN40748

#[1]	A[2]	Description	Yes	No	NA[3]	NR[4]	ER#[5]
		Chain-of-custody (C-O-C)					
R1	OI	Did samples meet the laboratory's standard conditions of sample acceptability upon receipt?		X			2
		Were all departures from standard conditions described in an exception report?	X				
R2	OI	**Sample and quality control (QC) identification**					
		Are all field sample ID numbers cross-referenced to the laboratory ID numbers?	X				
		Are all laboratory ID numbers cross-referenced to the corresponding QC data?	X				
R3	OI	**Test reports**					
		Were all samples prepared and analyzed within holding times?	X				
		Other than those results < MQL, were all other raw values bracketed by calibration standards?	X				
		Were calculations checked by a peer or supervisor?	X				
		Were all analyte identifications checked by a peer or supervisor?	X				
		Were sample detection limits reported for all analytes not detected?	X				
		Were all results for soil and sediment samples reported on a dry weight basis?	X				
		Were % moisture (or solids) reported for all soil and sediment samples?	X				
		Were bulk soil/solids samples for volatile analysis extracted with methanol per SW846 Method 5035?	X				
		If required for the project, TICs reported?			X		
R4	O	**Surrogate recovery data**					
		Were surrogates added prior to extraction?	X				
		Were surrogate percent recoveries in all samples within the laboratory QC limits?		X			2
R5	OI	**Test reports/summary forms for blank samples**					
		Were appropriate type(s) of blanks analyzed?	X				
		Were blanks analyzed at the appropriate frequency?	X				
		Were method blanks taken through the entire analytical process, including preparation and, if applicable, cleanup procedures?	X				
		Were blank concentrations < MQL?	X				
R6	OI	**Laboratory control samples (LCS):**					
		Were all COCs included in the LCS?	X				
		Was each LCS taken through the entire analytical procedure, including prep and cleanup steps?	X				
		Were LCSs analyzed at the required frequency?	X				
		Were LCS (and LCSD, if applicable) %Rs within the laboratory QC limits?	X				
		Does the detectability check sample data document the laboratory's capability to detect the COCs at the MDL used to calculate the SDLs?	X				
		Was the LCSD RPD within QC limits?	X				
R7	OI	**Matrix spike (MS) and matrix spike duplicate (MSD) data**					
		Were the project/method specified analytes included in the MS and MSD?	X				
		Were MS/MSD analyzed at the appropriate frequency?	X				
		Were MS (and MSD, if applicable) %Rs within the laboratory QC limits?		X			2
		Were MS/MSD RPDs within laboratory QC limits?		X			2
R8	OI	**Analytical duplicate data**					
		Were appropriate analytical duplicates analyzed for each matrix?	X				
		Were analytical duplicates analyzed at the appropriate frequency?	X				
		Were RPDs or relative standard deviations within the laboratory QC limits?		X			2
R9	OI	**Method quantitation limits (MQLs):**					
		Are the MQLs for each method analyte included in the laboratory data package?	X				
		Do the MQLs correspond to the concentration of the lowest non-zero calibration standard?	X				
		Are unadjusted MQLs and DCSs included in the laboratory data package?	X				1
R10	OI	**Other problems/anomalies**					
		Are all known problems/anomalies/special conditions noted in this LRC and ER?	X				
		Was applicable and available technology used to lower the SDL minimize the matrix interference affects on the sample results?	X				
		Is the Laboratory NELAC-accredited under the Texas Laboratory Accreditation Program for the analytes, matrices and methods associated with this laboratory data package?	X				

Appendix A (cont'd): Laboratory Review Checklist: Reportable Data

Laboratory Name: Accutest Laboratories Gulf Coast	LRC Date: 4/4/2012
Project Name: Buffalo Speedway / 8357Y	Laboratory Job Number: TC4052
Reviewer Name: Ted Yen	Prep Batch Number(s): VN1682, VQ208, VQ210, VQ211, OP22763, MP17208, MP17216, GP18378, GP18416, GN40760 and GN40748

#[1]	A[2]	Description	Yes	No	NA[3]	NR[4]	ER #[5]
S1	OI	**Initial calibration (ICAL)**					
		Were response factors and/or relative response factors for each analyte within QC limits?	X				
		Were percent RSDs or correlation coefficient criteria met?	X				
		Was the number of standards recommended in the method used for all analytes?	X				
		Were all points generated between the lowest and highest standard used to calculate the curve?	X				
		Are ICAL data available for all instruments used?	X				
		Has the initial calibration curve been verified using an appropriate second source standard?	X				
S2	OI	**Initial and continuing calibration verification (ICCV and CCV) and continuing calibration**					
		Was the CCV analyzed at the method-required frequency?	X				
		Were percent differences for each analyte within the method-required QC limits?	X				
		Was the ICAL curve verified for each analyte?	X				
		Was the absolute value of the analyte concentration in the inorganic CCB < MDL?		X			3
S3	O	**Mass spectral tuning:**					
		Was the appropriate compound for the method used for tuning?	X				
		Were ion abundance data within the method-required QC limits?	X				
S4	O	**Internal standards (IS):**					
		Were IS area counts and retention times within the method-required QC limits?	X				
S5	OI	**Raw data (NELAC section 5.5.10)**					
		Were the raw data (for example, chromatograms, spectral data) reviewed by an analyst?	X				
		Were data associated with manual integrations flagged on the raw data?	X				
S6	O	**Dual column confirmation**					
		Did dual column confirmation results meet the method-required QC?			X		
S7	O	**Tentatively identified compounds (TICs):**					
		If TICs were requested, were the mass spectra and TIC data subject to appropriate checks?			X		
S8	I	**Interference Check Sample (ICS) results:**					
		Were percent recoveries within method QC limits?	X				
S9	I	**Serial dilutions, post digestion spikes, and method of standard additions**					
		Were percent differences, recoveries, and the linearity within the QC limits specified in the method?		X			2
S10	OI	**Method detection limit (MDL) studies**					
		Was a MDL study performed for each reported analyte?	X				
		Is the MDL either adjusted or supported by the analysis of DCSs?	X				
S11	OI	**Proficiency test reports:**					
		Was the laboratory's performance acceptable on the applicable proficiency tests or evaluation studies?	X				
S12	OI	**Standards documentation**					
		Are all standards used in the analyses NIST-traceable or obtained from other appropriate sources?	X				
S13	OI	**Compound/analyte identification procedures**					
		Are the procedures for compound/analyte identification documented?	X				
S14	OI	**Demonstration of analyst competency (DOC)**					
		Was DOC conducted consistent with NELAC Chapter 5C or ISO/IEC 4?	X				
		Is documentation of the analyst's competency up-to-date and on file?	X				
S15	OI	**Verification/validation documentation for methods** (NELAC Chap 5)					
		Are all the methods used to generate the data documented, verified, and validated, where applicable?	X				
S16	OI	**Laboratory standard operating procedures (SOPs):**					
		Are laboratory SOPs current and on file for each method performed?	X				

Appendix A (cont'd): Laboratory Review Checklist: Exception Reports	
Laboratory Name: Accutest Laboratories Gulf Coast	LRC Date: 4/4/2012
Project Name: Buffalo Speedway / 8357Y	Laboratory Job Number: TC4052
Reviewer Name: Ted Yen	Prep Batch Number(s): VN1682, VQ208, VQ210, VQ211, OP22763, MP17208, MP17216, GP18378, GP18416, GN40760 and GN40748

DESCRIPTION	
1	For reporting purposes, the method blank represents the unadjusted MQL/RL. For reporting purposes, the MQL is defined in the report as the RL. The SDL/MDL is defined in the report as the MDL.
2	All anomalies are discussed in the case narrative.
3	Inorganic CCB with absolute values greater than the MDL is found in the CCB MDL Check Summary in the QA section of the report.

1. Items identified by the letter "R" must be included in the laboratory data package submitted in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.
2. O= organic analyses; I= inorganic analyses (and general chemistry, when applicable);
3. NA = Not Applicable;
4. NR = Not reviewed;
5. ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked on the LRC)

Gulf Coast ACCUTEST LABORATORIES

GC/MS Volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries

Method Blank Summary

Job Number: TC4052
Account: BOATXHO Berg Oliver Associates
Project: Buffalo Speedway / 8357Y

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VQ208-MB	Q005163.D	1	03/28/12	LT	n/a	n/a	VQ208

The QC reported here applies to the following samples: **Method:** SW846 8260B

TC4052-1, TC4052-2, TC4052-3

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	4.0	0.53	ug/kg	
100-41-4	Ethylbenzene	ND	4.0	0.70	ug/kg	
108-88-3	Toluene	ND	4.0	0.70	ug/kg	
1330-20-7	Xylene (total)	ND	12	1.4	ug/kg	

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	101%	70-121%
2037-26-5	Toluene-D8	113%	76-132%
460-00-4	4-Bromofluorobenzene	96%	73-165%
17060-07-0	1,2-Dichloroethane-D4	87%	57-122%

Method Blank Summary

Job Number: TC4052
Account: BOATXHO Berg Oliver Associates
Project: Buffalo Speedway / 8357Y

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VQ210-MB	Q005214.D	1	03/29/12	LT	n/a	n/a	VQ210

The QC reported here applies to the following samples: **Method:** SW846 8260B

TC4052-4, TC4052-5, TC4052-6

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	4.0	0.53	ug/kg	
100-41-4	Ethylbenzene	ND	4.0	0.70	ug/kg	
108-88-3	Toluene	ND	4.0	0.70	ug/kg	
1330-20-7	Xylene (total)	ND	12	1.4	ug/kg	

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	104%	70-121%
2037-26-5	Toluene-D8	112%	76-132%
460-00-4	4-Bromofluorobenzene	94%	73-165%
17060-07-0	1,2-Dichloroethane-D4	91%	57-122%

Method Blank Summary

Job Number: TC4052
Account: BOATXHO Berg Oliver Associates
Project: Buffalo Speedway / 8357Y

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VM1682-MB	M0041119.D	1	03/29/12	LT	n/a	n/a	VM1682

The QC reported here applies to the following samples: **Method:** SW846 8260B

TC4052-8, TC4052-9, TC4052-10, TC4052-11, TC4052-12, TC4052-13

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	4.0	0.53	ug/kg	
100-41-4	Ethylbenzene	ND	4.0	0.70	ug/kg	
108-88-3	Toluene	ND	4.0	0.70	ug/kg	
1330-20-7	Xylene (total)	ND	12	1.4	ug/kg	

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	103%	70-121%
2037-26-5	Toluene-D8	111%	76-132%
460-00-4	4-Bromofluorobenzene	110%	73-165%
17060-07-0	1,2-Dichloroethane-D4	92%	57-122%

Method Blank Summary

Job Number: TC4052
Account: BOATXHO Berg Oliver Associates
Project: Buffalo Speedway / 8357Y

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VQ211-MB	Q005244.D	1	03/30/12	LT	n/a	n/a	VQ211

The QC reported here applies to the following samples: **Method:** SW846 8260B

TC4052-7, TC4052-8

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	4.0	0.53	ug/kg	
100-41-4	Ethylbenzene	ND	4.0	0.70	ug/kg	
108-88-3	Toluene	ND	4.0	0.70	ug/kg	
1330-20-7	Xylene (total)	ND	12	1.4	ug/kg	

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	101%	70-121%
2037-26-5	Toluene-D8	118%	76-132%
460-00-4	4-Bromofluorobenzene	101%	73-165%
17060-07-0	1,2-Dichloroethane-D4	88%	57-122%

Blank Spike Summary

Job Number: TC4052
Account: BOATXHO Berg Oliver Associates
Project: Buffalo Speedway / 8357Y

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VQ208-BS	Q005161.D	1	03/28/12	LT	n/a	n/a	VQ208

The QC reported here applies to the following samples: **Method:** SW846 8260B

TC4052-1, TC4052-2, TC4052-3

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
71-43-2	Benzene	50	48.0	96	70-114
100-41-4	Ethylbenzene	50	46.1	92	60-119
108-88-3	Toluene	50	46.7	93	68-115
1330-20-7	Xylene (total)	150	138	92	61-115

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	104%	70-121%
2037-26-5	Toluene-D8	113%	76-132%
460-00-4	4-Bromofluorobenzene	99%	73-165%
17060-07-0	1,2-Dichloroethane-D4	91%	57-122%

Blank Spike Summary

Job Number: TC4052
Account: BOATXHO Berg Oliver Associates
Project: Buffalo Speedway / 8357Y

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VQ210-BS	Q005212.D	1	03/29/12	LT	n/a	n/a	VQ210

The QC reported here applies to the following samples: **Method:** SW846 8260B

TC4052-4, TC4052-5, TC4052-6

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
71-43-2	Benzene	50	47.8	96	70-114
100-41-4	Ethylbenzene	50	48.3	97	60-119
108-88-3	Toluene	50	47.1	94	68-115
1330-20-7	Xylene (total)	150	147	98	61-115

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	100%	70-121%
2037-26-5	Toluene-D8	111%	76-132%
460-00-4	4-Bromofluorobenzene	93%	73-165%
17060-07-0	1,2-Dichloroethane-D4	88%	57-122%

Blank Spike Summary

Job Number: TC4052
Account: BOATXHO Berg Oliver Associates
Project: Buffalo Speedway / 8357Y

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VM1682-BS	M0041117.D	1	03/29/12	LT	n/a	n/a	VM1682

The QC reported here applies to the following samples: **Method:** SW846 8260B

TC4052-8, TC4052-9, TC4052-10, TC4052-11, TC4052-12, TC4052-13

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
71-43-2	Benzene	50	46.7	93	70-114
100-41-4	Ethylbenzene	50	47.7	95	60-119
108-88-3	Toluene	50	47.4	95	68-115
1330-20-7	Xylene (total)	150	145	97	61-115

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	111%	70-121%
2037-26-5	Toluene-D8	114%	76-132%
460-00-4	4-Bromofluorobenzene	111%	73-165%
17060-07-0	1,2-Dichloroethane-D4	95%	57-122%

Blank Spike Summary

Job Number: TC4052
Account: BOATXHO Berg Oliver Associates
Project: Buffalo Speedway / 8357Y

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VQ211-BS	Q005242.D	1	03/30/12	LT	n/a	n/a	VQ211

The QC reported here applies to the following samples: **Method:** SW846 8260B

TC4052-7, TC4052-8

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
71-43-2	Benzene	50	43.5	87	70-114
100-41-4	Ethylbenzene	50	46.1	92	60-119
108-88-3	Toluene	50	45.5	91	68-115
1330-20-7	Xylene (total)	150	138	92	61-115

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	99%	70-121%
2037-26-5	Toluene-D8	115%	76-132%
460-00-4	4-Bromofluorobenzene	99%	73-165%
17060-07-0	1,2-Dichloroethane-D4	85%	57-122%

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: TC4052
Account: BOATXHO Berg Oliver Associates
Project: Buffalo Speedway / 8357Y

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
TC3935-14MS	Q005165.D	1	03/28/12	LT	n/a	n/a	VQ208
TC3935-14MSD	Q005166.D	1	03/28/12	LT	n/a	n/a	VQ208
TC3935-14	Q005164.D	1	03/28/12	LT	n/a	n/a	VQ208

The QC reported here applies to the following samples: **Method:** SW846 8260B

TC4052-1, TC4052-2, TC4052-3

CAS No.	Compound	TC3935-14 ug/kg	Q	Spike ug/kg	MS ug/kg	MS %	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
71-43-2	Benzene	45.5	J	2950	2400	80	2240	74	7	70-114/38
100-41-4	Ethylbenzene	10400		2950	12500	71	12300	64	2	60-119/40
108-88-3	Toluene	116	J	2950	2480	80	2340	75	6	68-115/38
1330-20-7	Xylene (total)	26500		8860	33300	77	32500	68	2	61-115/39

CAS No.	Surrogate Recoveries	MS	MSD	TC3935-14	Limits
1868-53-7	Dibromofluoromethane	95%	96%	93%	70-121%
2037-26-5	Toluene-D8	108%	109%	107%	76-132%
460-00-4	4-Bromofluorobenzene	94%	95%	93%	73-165%
17060-07-0	1,2-Dichloroethane-D4	85%	83%	84%	57-122%

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: TC4052
Account: BOATXHO Berg Oliver Associates
Project: Buffalo Speedway / 8357Y

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
TC3935-13MS	Q005216.D	1	03/29/12	LT	n/a	n/a	VQ210
TC3935-13MSD	Q005217.D	1	03/29/12	LT	n/a	n/a	VQ210
TC3935-13	Q005215.D	1	03/29/12	LT	n/a	n/a	VQ210

The QC reported here applies to the following samples: **Method:** SW846 8260B

TC4052-4, TC4052-5, TC4052-6

CAS No.	Compound	TC3935-13 ug/kg	Q	Spike ug/kg	MS ug/kg	MS %	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
71-43-2	Benzene	ND		3420	2770	81	2700	79	3	70-114/38
100-41-4	Ethylbenzene	1390		3420	4220	83	4080	79	3	60-119/40
108-88-3	Toluene	61.7	J	3420	2770	79	2740	78	1	68-115/38
1330-20-7	Xylene (total)	2570		10300	11200	84	10900	81	3	61-115/39

CAS No.	Surrogate Recoveries	MS	MSD	TC3935-13	Limits
1868-53-7	Dibromofluoromethane	95%	94%	96%	70-121%
2037-26-5	Toluene-D8	108%	108%	107%	76-132%
460-00-4	4-Bromofluorobenzene	91%	91%	91%	73-165%
17060-07-0	1,2-Dichloroethane-D4	83%	82%	85%	57-122%

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: TC4052
Account: BOATXHO Berg Oliver Associates
Project: Buffalo Speedway / 8357Y

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
TC4132-5MS	M0041121.D	1	03/29/12	LT	n/a	n/a	VM1682
TC4132-5MSD	M0041122.D	1	03/29/12	LT	n/a	n/a	VM1682
TC4132-5 [a]	M0041120.D	1	03/29/12	LT	n/a	n/a	VM1682

The QC reported here applies to the following samples: **Method:** SW846 8260B

TC4052-8, TC4052-9, TC4052-10, TC4052-11, TC4052-12, TC4052-13

CAS No.	Compound	TC4132-5 ug/kg	Q	Spike ug/kg	MS ug/kg	MS %	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
71-43-2	Benzene	ND		3240	2710	84	2620	81	3	70-114/38
100-41-4	Ethylbenzene	1490		3240	4240	85	4210	84	1	60-119/40
108-88-3	Toluene	82.3		3240	2820	85	2700	81	4	68-115/38
1330-20-7	Xylene (total)	16700		9710	25400	90	25100	87	1	61-115/39

CAS No.	Surrogate Recoveries	MS	MSD	TC4132-5	Limits
1868-53-7	Dibromofluoromethane	101%	100%	103%	70-121%
2037-26-5	Toluene-D8	115%	116%	115%	76-132%
460-00-4	4-Bromofluorobenzene	100%	98%	106%	73-165%
17060-07-0	1,2-Dichloroethane-D4	89%	87%	91%	57-122%

(a) Sample was received unpreserved and outside the 48 hour preservation time.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: TC4052
Account: BOATXHO Berg Oliver Associates
Project: Buffalo Speedway / 8357Y

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
TC4132-2MS [a]	Q005247.D	1	03/30/12	LT	n/a	n/a	VQ211
TC4132-2MSD [a]	Q005248.D	1	03/30/12	LT	n/a	n/a	VQ211
TC4132-2 [a]	Q005246.D	1	03/30/12	LT	n/a	n/a	VQ211

The QC reported here applies to the following samples: **Method:** SW846 8260B

TC4052-7, TC4052-8

CAS No.	Compound	TC4132-2 ug/kg	Q	Spike ug/kg	MS ug/kg	MS %	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
71-43-2	Benzene	ND		2660	2110	79	2060	78	2	70-114/38
100-41-4	Ethylbenzene	2880		2660	5150	85	5100	84	1	60-119/40
108-88-3	Toluene	42.6		2660	2240	83	2180	80	3	68-115/38
1330-20-7	Xylene (total)	22100		7970	29100	88	29100	88	0	61-115/39

CAS No.	Surrogate Recoveries	MS	MSD	TC4132-2	Limits
1868-53-7	Dibromofluoromethane	91%	93%	90%	70-121%
2037-26-5	Toluene-D8	116%	117%	117%	76-132%
460-00-4	4-Bromofluorobenzene	93%	86%	95%	73-165%
17060-07-0	1,2-Dichloroethane-D4	83%	80%	80%	57-122%

(a) Sample was received unpreserved and outside the 48 hour preservation time.

Gulf Coast ACCUTEST LABORATORIES

GC Semi-volatiles

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QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries

Method Blank Summary

Job Number: TC4052
Account: BOATXHO Berg Oliver Associates
Project: Buffalo Speedway / 8357Y

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP22763-MB	LB069207.D	1	03/30/12	NW	03/27/12	OP22763	GLB1012

The QC reported here applies to the following samples: **Method:** TNRCC 1005

TC4052-1, TC4052-2, TC4052-3, TC4052-4, TC4052-5, TC4052-6, TC4052-7, TC4052-8, TC4052-9, TC4052-10, TC4052-11, TC4052-12, TC4052-13

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C6-C12)	ND	24	4.0	mg/kg	
	TPH (>C12-C28)	ND	24	4.1	mg/kg	
	TPH (>C28-C35)	ND	24	4.1	mg/kg	
	TPH (C6-C35)	ND	24	4.0	mg/kg	

CAS No.	Surrogate Recoveries		Limits
84-15-1	o-Terphenyl	116%	70-130%
98-08-8	aaa-Trifluorotoluene	106%	70-130%

Blank Spike/Blank Spike Duplicate Summary

Job Number: TC4052
Account: BOATXHO Berg Oliver Associates
Project: Buffalo Speedway / 8357Y

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP22763-BS	LB069209.D	1	03/30/12	NW	03/27/12	OP22763	GLB1012
OP22763-BSD	LB069211.D	1	03/30/12	NW	03/27/12	OP22763	GLB1012

The QC reported here applies to the following samples: **Method:** TNRCC 1005

TC4052-1, TC4052-2, TC4052-3, TC4052-4, TC4052-5, TC4052-6, TC4052-7, TC4052-8, TC4052-9, TC4052-10, TC4052-11, TC4052-12, TC4052-13

CAS No.	Compound	Spike mg/kg	BSP mg/kg	BSP %	BSD mg/kg	BSD %	RPD	Limits Rec/RPD
	TPH (C6-C12)	248	233	94	227	92	3	75-125/25
	TPH (>C12-C28)	248	244	99	233	94	5	75-125/25
	TPH (C6-C35)	495	477	96	460	93	4	75-125/30

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
84-15-1	o-Terphenyl	113%	112%	70-130%
98-08-8	aaa-Trifluorotoluene	99%	96%	70-130%

6.2.1

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Matrix Spike/Matrix Spike Duplicate Summary

Job Number: TC4052
Account: BOATXHO Berg Oliver Associates
Project: Buffalo Speedway / 8357Y

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP22763-MS	LB069213.D	1	03/30/12	NW	03/27/12	OP22763	GLB1012
OP22763-MSD	LB069215.D	1	03/30/12	NW	03/27/12	OP22763	GLB1012
TC4052-10	LB069217.D	1	03/30/12	NW	03/27/12	OP22763	GLB1012

The QC reported here applies to the following samples: **Method:** TNRCC 1005

TC4052-1, TC4052-2, TC4052-3, TC4052-4, TC4052-5, TC4052-6, TC4052-7, TC4052-8, TC4052-9, TC4052-10, TC4052-11, TC4052-12, TC4052-13

CAS No.	Compound	TC4052-10 mg/kg	Q	Spike mg/kg	MS mg/kg	MS %	MSD mg/kg	MSD %	RPD	Limits Rec/RPD
	TPH (C6-C12)	31	U	301	329	109	315	102	4	75-125/25
	TPH (>C12-C28)	31	U	301	321	107	305	98	5	75-125/25
	TPH (C6-C35)	31	U	602	650	108	620	100	5	75-125/25

CAS No.	Surrogate Recoveries	MS	MSD	TC4052-10	Limits
84-15-1	o-Terphenyl	125%	111%	130%	70-130%
98-08-8	aaa-Trifluorotoluene	111%	103%	121%	70-130%

6.3.1

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Gulf Coast ACCUTEST LABORATORIES

Metals Analysis

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Matrix Spike and Duplicate Summaries
- Blank Spike and Lab Control Sample Summaries
- Serial Dilution Summaries
- Metals CCB MDL Check

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: TC4052
Account: BOATXHO - Berg Oliver Associates
Project: Buffalo Speedway / 8357Y

QC Batch ID: MP17208
Matrix Type: SOLID

Methods: SW846 6010B
Units: mg/kg

Prep Date: 03/29/12

Metal	RL	IDL	MDL	MB raw	final
Aluminum	10	.41	.73		
Antimony	0.50	.05	.085		
Arsenic	0.50	.085	.085	0.034	<0.50
Barium	10	.049	.069	0.0030	<10
Beryllium	0.20	.0028	.0055		
Boron	5.0	.07	.17		
Cadmium	0.25	.0055	.014	0.0015	<0.25
Calcium	250	.37	1.3		
Chromium	0.50	.012	.023	0.012	<0.50
Cobalt	2.5	.0075	.03		
Copper	1.0	.056	.056		
Iron	5.0	.057	1.1		
Lead	0.50	.05	.05	0.016	<0.50
Lithium	15	.1			
Magnesium	250	.38	1.3		
Manganese	0.75	.0027	.037		
Molybdenum	0.50	.02	.025		
Nickel	2.0	.035	.057		
Potassium	250	2	10		
Selenium	0.50	.077	.14	0.039	<0.50
Silver	0.50	.058	.058	-0.011	<0.50
Sodium	250	.46	1.6		
Strontium	1.0	.0031	.059		
Thallium	0.50	.034	.04		
Tin	1.0	.035	.035		
Titanium	1.0	.015	.029		
Vanadium	2.5	.015	.034		
Zinc	1.0	.026	.084		

Associated samples MP17208: TC4052-1, TC4052-2, TC4052-3, TC4052-4, TC4052-5, TC4052-6, TC4052-7, TC4052-8, TC4052-9, TC4052-10, TC4052-11, TC4052-12, TC4052-13

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: TC4052
Account: BOATXHO - Berg Oliver Associates
Project: Buffalo Speedway / 8357Y

QC Batch ID: MP17208
Matrix Type: SOLID

Methods: SW846 6010B
Units: mg/kg

Prep Date:			03/29/12					03/29/12	
Metal	TC4052-1 Original	DUP	RPD	QC Limits	TC4052-1 Original	MS	Spikelot MPTW4	% Rec	QC Limits
Aluminum									
Antimony									
Arsenic	3.5	2.6	29.5*(a)	0-20	3.5	18.4	27.1	54.9N(c)	75-125
Barium	656	116	139.9*(a	0-20	656	85.3	27.1	-2103.6d	75-125
Beryllium									
Boron									
Cadmium	0.24	0.19	23.3 (b)	0-20	0.24	18.7	27.1	68.0N(c)	75-125
Calcium									
Chromium	22.9	23.5	2.6	0-20	22.9	39.0	27.1	59.3N(c)	75-125
Cobalt									
Copper									
Iron									
Lead	11.2	9.8	13.3	0-20	11.2	27.9	27.1	61.6N(c)	75-125
Lithium									
Magnesium									
Manganese									
Molybdenum									
Nickel	anr								
Potassium									
Selenium	0.24	0.17	34.1 (b)	0-20	0.24	17.1	27.1	62.1N(c)	75-125
Silver	0.086	0.0	200.0(b)	0-20	0.086	20.0	27.1	73.4N(c)	75-125
Sodium									
Strontium									
Thallium									
Tin									
Titanium									
Vanadium									
Zinc									

Associated samples MP17208: TC4052-1, TC4052-2, TC4052-3, TC4052-4, TC4052-5, TC4052-6, TC4052-7, TC4052-8, TC4052-9, TC4052-10, TC4052-11, TC4052-12, TC4052-13

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested
(a) High RPD due to possible sample nonhomogeneity or matrix interference.
(b) RPD acceptable due to low duplicate and sample concentrations.
(c) Spike recovery indicates possible matrix interference and/or sample nonhomogeneity.

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: TC4052
Account: BOATXHO - Berg Oliver Associates
Project: Buffalo Speedway / 8357Y

QC Batch ID: MP17208
Matrix Type: SOLID

Methods: SW846 6010B
Units: mg/kg

Prep Date:

Metal

(d) Spike amount low relative to the sample amount. Refer to lab control or spike blank for recovery information.

7.1.2

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MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: TC4052
Account: BOATXHO - Berg Oliver Associates
Project: Buffalo Speedway / 8357Y

QC Batch ID: MP17208
Matrix Type: SOLID

Methods: SW846 6010B
Units: mg/kg

Prep Date: 03/29/12

Metal	TC4052-1 Original	MSD	Spikelot MPTW4	% Rec	MSD RPD	QC Limit
Aluminum						
Antimony						
Arsenic	3.5	19.5	27.1	59.0N(a)	5.8	20
Barium	656	124	27.1	-1961.0b	37.0 (c)	20
Beryllium						
Boron						
Cadmium	0.24	19.4	27.1	70.6N(a)	3.7	20
Calcium						
Chromium	22.9	39.5	27.1	61.2N(a)	1.3	20
Cobalt						
Copper						
Iron						
Lead	11.2	30.2	27.1	70.0N(a)	7.9	20
Lithium						
Magnesium						
Manganese						
Molybdenum						
Nickel	anr					
Potassium						
Selenium	0.24	17.7	27.1	64.4N(a)	3.4	20
Silver	0.086	20.6	27.1	75.6	3.0	20
Sodium						
Strontium						
Thallium						
Tin						
Titanium						
Vanadium						
Zinc						

Associated samples MP17208: TC4052-1, TC4052-2, TC4052-3, TC4052-4, TC4052-5, TC4052-6, TC4052-7, TC4052-8, TC4052-9, TC4052-10, TC4052-11, TC4052-12, TC4052-13

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested
(a) Spike recovery indicates possible matrix interference and/or sample nonhomogeneity.
(b) Spike amount low relative to the sample amount. Refer to lab control or spike blank for recovery information.

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: TC4052
Account: BOATXHO - Berg Oliver Associates
Project: Buffalo Speedway / 8357Y

QC Batch ID: MP17208
Matrix Type: SOLID

Methods: SW846 6010B
Units: mg/kg

Prep Date:

Metal

(c) High RPD due to possible sample nonhomogeneity or matrix interference.

7.1.2

7

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: TC4052
Account: BOATXHO - Berg Oliver Associates
Project: Buffalo Speedway / 8357Y

QC Batch ID: MP17208
Matrix Type: SOLID

Methods: SW846 6010B
Units: mg/kg

Prep Date: 03/29/12

Metal	LCS Result	Spikelot MPLCD056	% Rec	QC Limits
Aluminum				
Antimony				
Arsenic	113	124	91.1	78-122
Barium	283	316	89.6	80-120
Beryllium				
Boron				
Cadmium	106	116	91.4	81-119
Calcium				
Chromium	92.0	95.9	95.9	77-123
Cobalt				
Copper				
Iron				
Lead	140	137	102.2	77-123
Lithium				
Magnesium				
Manganese				
Molybdenum				
Nickel	anr			
Potassium				
Selenium	189	202	93.6	77-123
Silver	46.3	53.5	86.5	66-134
Sodium				
Strontium				
Thallium				
Tin				
Titanium				
Vanadium				
Zinc				

Associated samples MP17208: TC4052-1, TC4052-2, TC4052-3, TC4052-4, TC4052-5, TC4052-6, TC4052-7, TC4052-8, TC4052-9, TC4052-10, TC4052-11, TC4052-12, TC4052-13

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

SERIAL DILUTION RESULTS SUMMARY

Login Number: TC4052
Account: BOATXHO - Berg Oliver Associates
Project: Buffalo Speedway / 8357Y

QC Batch ID: MP17208
Matrix Type: SOLID

Methods: SW846 6010B
Units: ug/l

Prep Date: 03/29/12

Metal	TC4052-1 Original	SDL 1:5	%DIF	QC Limits
Aluminum				
Antimony				
Arsenic	51.0	65.0	27.6 (a)	0-10
Barium	9680	11800	22.2*(b)	0-10
Beryllium				
Boron				
Cadmium	3.52	3.87	9.9	0-10
Calcium				
Chromium	337	424	25.7*(b)	0-10
Cobalt				
Copper				
Iron				
Lead	165	185	12.1*(b)	0-10
Lithium				
Magnesium				
Manganese				
Molybdenum				
Nickel	anr			
Potassium				
Selenium	3.57	11.8	229.7(a)	0-10
Silver	1.27	0.00	100.0(a)	0-10
Sodium				
Strontium				
Thallium				
Tin				
Titanium				
Vanadium				
Zinc				

Associated samples MP17208: TC4052-1, TC4052-2, TC4052-3, TC4052-4, TC4052-5, TC4052-6, TC4052-7, TC4052-8, TC4052-9, TC4052-10, TC4052-11, TC4052-12, TC4052-13

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested
(a) Percent difference acceptable due to low initial sample concentration (< 50 times IDL).
(b) Serial dilution indicates possible matrix interference.

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: TC4052
Account: BOATXHO - Berg Oliver Associates
Project: Buffalo Speedway / 8357Y

QC Batch ID: MP17216
Matrix Type: SOLID

Methods: SW846 7471A
Units: mg/kg

Prep Date: 03/30/12

Metal	RL	IDL	MDL	MB raw	final
Mercury	0.017	.0041	.0067	-0.0013	<0.017

Associated samples MP17216: TC4052-1, TC4052-2, TC4052-3, TC4052-4, TC4052-5, TC4052-6, TC4052-7, TC4052-8, TC4052-9, TC4052-10, TC4052-11, TC4052-12, TC4052-13

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

7.2.1

7

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: TC4052
Account: BOATXHO - Berg Oliver Associates
Project: Buffalo Speedway / 8357Y

QC Batch ID: MP17216
Matrix Type: SOLID

Methods: SW846 7471A
Units: mg/kg

Prep Date:			03/30/12					03/30/12	
Metal	TC4052-1 Original	DUP	RPD	QC Limits	TC4052-1 Original	MS	Spikelot HGTXWS1	% Rec	QC Limits
Mercury	0.016	0.0	200.0(a)	0-20	0.016	0.26	0.28	87.5	75-125

Associated samples MP17216: TC4052-1, TC4052-2, TC4052-3, TC4052-4, TC4052-5, TC4052-6, TC4052-7, TC4052-8, TC4052-9, TC4052-10, TC4052-11, TC4052-12, TC4052-13

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested
(a) RPD acceptable due to low duplicate and sample concentrations.

7.2.2

7

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: TC4052
Account: BOATXHO - Berg Oliver Associates
Project: Buffalo Speedway / 8357Y

QC Batch ID: MP17216
Matrix Type: SOLID

Methods: SW846 7471A
Units: mg/kg

Prep Date: 03/30/12

Metal	TC4052-1 Original	MSD	Spikelot HGTXWS1	% Rec	MSD RPD	QC Limit
Mercury	0.016	0.26	0.294	83.3	0.0	20

Associated samples MP17216: TC4052-1, TC4052-2, TC4052-3, TC4052-4, TC4052-5, TC4052-6, TC4052-7, TC4052-8, TC4052-9, TC4052-10, TC4052-11, TC4052-12, TC4052-13

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested

7.2.2

7

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: TC4052
Account: BOATXHO - Berg Oliver Associates
Project: Buffalo Speedway / 8357Y

QC Batch ID: MP17216
Matrix Type: SOLID

Methods: SW846 7471A
Units: mg/kg

Prep Date: 03/30/12

Metal	LCS Result	Spikelot HGLCD056	% Rec	QC Limits
Mercury	13.5	15.2	88.8	72-128

Associated samples MP17216: TC4052-1, TC4052-2, TC4052-3, TC4052-4, TC4052-5, TC4052-6, TC4052-7, TC4052-8, TC4052-9, TC4052-10, TC4052-11, TC4052-12, TC4052-13

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

7.2.3

7

Metals CCB MDL Check

Job Number: TC4052
Account: BOATXHO Berg Oliver Associates
Project: Buffalo Speedway / 8357Y

The following elements are braketed by CCB's at or above the MDL.

Sample	Element	Run ID	Time	MDL	Units	CCB Before		CCB After	
TC4052-4	Mercury	MA6662	15:26	.080	ug/l	CCB7	-0.033	CCB8	-0.091

7.3

7

Calibration blank validation to the MDL is not a method requirement, but is included for information purposes only.

Gulf Coast ACCUTEST LABORATORIES

General Chemistry

QC Data Summaries

8

Includes the following where applicable:

- Method Blank and Blank Spike Summaries
- Duplicate Summaries
- Matrix Spike Summaries
- General Chemistry CCB MDL Check

METHOD BLANK AND SPIKE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: TC4052
Account: BOATXHO - Berg Oliver Associates
Project: Buffalo Speedway / 8357Y

Analyte	Batch ID	RL	MB Result	Units	Spike Amount	BSP Result	BSP %Recov	QC Limits
Bromide	GP18416/GN40867	2.5	0.0	mg/kg	49.5	50.6	102.3	90-110%
Chloride	GP18378/GN40803	2.5	0.0	mg/kg	49.7	47.6	95.9	90-110%
Chloride	GP18416/GN40867	2.5	0.0	mg/kg	49.5	48.1	97.3	90-110%
Fluoride	GP18416/GN40867	2.5	0.0	mg/kg	49.5	53.5	108.2	90-110%
Sulfate	GP18416/GN40867	2.5	0.0	mg/kg	49.5	50.2	101.5	90-110%

Associated Samples:
Batch GP18378: TC4052-1, TC4052-10, TC4052-12, TC4052-13, TC4052-2, TC4052-3, TC4052-4, TC4052-5, TC4052-6, TC4052-7, TC4052-8
Batch GP18416: TC4052-11, TC4052-9
(*) Outside of QC limits

8.1

8

DUPLICATE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: TC4052
Account: BOATXHO - Berg Oliver Associates
Project: Buffalo Speedway / 8357Y

Analyte	Batch ID	QC Sample	Units	Original Result	DUP Result	RPD	QC Limits
Bromide	GP18416/GN40867	TC4180-1	mg/kg	18.6	17.0	9.0	0-20%
Chloride	GP18378/GN40803	TC3915-1	mg/kg	564	557	1.2	0-20%
Chloride	GP18416/GN40867	TC4180-1	mg/kg	13700	13500	1.5	0-20%
Fluoride	GP18416/GN40867	TC4180-1	mg/kg	57.9	57.3	1.0	0-20%
Solids, Percent	GN40760	TC4052-1	%	77.6	77.6	0.0	0-5%
Sulfate	GP18416/GN40867	TC4180-1	mg/kg	283	303	6.8	0-20%
pH	GN40748	TC4052-1	su	8.03	8.03	0.0	0-20%

Associated Samples:
Batch GN40748: TC4052-1, TC4052-10, TC4052-11, TC4052-12, TC4052-13, TC4052-2, TC4052-3, TC4052-4, TC4052-5, TC4052-6, TC4052-7, TC4052-8, TC4052-9
Batch GN40760: TC4052-1, TC4052-10, TC4052-11, TC4052-12, TC4052-13, TC4052-2, TC4052-3, TC4052-4, TC4052-5, TC4052-6, TC4052-7, TC4052-8, TC4052-9
Batch GP18378: TC4052-1, TC4052-10, TC4052-12, TC4052-13, TC4052-2, TC4052-3, TC4052-4, TC4052-5, TC4052-6, TC4052-7, TC4052-8
Batch GP18416: TC4052-11, TC4052-9
(*) Outside of QC limits

MATRIX SPIKE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: TC4052
Account: BOATXHO - Berg Oliver Associates
Project: Buffalo Speedway / 8357Y

Analyte	Batch ID	QC Sample	Units	Original Result	Spike Amount	MS Result	%Rec	QC Limits
Bromide	GP18416/GN40867	TC4180-1	mg/kg	18.6	70.9	199	254.4N	80-120%
Chloride	GP18378/GN40803	TC3915-1	mg/kg	564	321	961	123.6N	80-120%
Chloride	GP18416/GN40867	TC4180-1	mg/kg	13700	70.9	15800	2962.0(a)	80-120%
Fluoride	GP18416/GN40867	TC4180-1	mg/kg	57.9	70.9	116	81.9	80-120%
Sulfate	GP18416/GN40867	TC4180-1	mg/kg	283	70.9	441	222.8N	80-120%

Associated Samples:
Batch GP18378: TC4052-1, TC4052-10, TC4052-12, TC4052-13, TC4052-2, TC4052-3, TC4052-4, TC4052-5, TC4052-6, TC4052-7, TC4052-8
Batch GP18416: TC4052-11, TC4052-9
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(a) Spike amount low relative to the sample amount. Refer to lab control or spike blank for recovery information.

8.3

8

General Chemistry CCB MDL Check

Job Number: TC4052
Account: BOATXHO Berg Oliver Associates
Project: Buffalo Speedway / 8357Y

The following parameters are braketed by CCB's at or above the MDL.

Sample	Parameter	Run ID	Time	MDL	Units	CCB Before	CCB After

No CCB's found at or above MDL.

8.4 8

Calibration blank validation to the MDL is not a method requirement, but is included for information purposes only.

APPENDIX C

Photographs

Dead end of Buffalo Speedway north of West Orem. Point of access for project.

Typical view, boring and sampling activities at Pit 1.

Typical view near Well A.

Flooded area near Well B.

Boring and sampling activities at Well E.

Drilling and sampling activities at Pit 2.

APPENDIX D

Qualifications of Environmental Professional

BENJAMIN M. PRICE, GEOLOGIST
VICE PRESIDENT AND PROJECT MANAGER
HAZARDOUS AND TOXIC WASTE DEPARTMENT

EDUCATION

Master of Science, Geology
Texas A&M University (1991)

Bachelor of Science, Geology
Florida Atlantic University (1981)

CERTIFICATIONS/AFFILIATIONS

Professional Geoscientist (TX #3423)
Certified Wetland Delineator 1997
Certified Environmental Auditor, 1997
Registered Environmental Manager (R.E.M. #10916)
Federal Energy Regulatory Commission (FERC) Training and Certification
National Environmental Policy Act (NEPA) Training and Certification
Society of Wetland Scientists
Texas Association of Environmental Professionals
National Registry of Environmental Professional
Texas Department of Transportation Certification No. 6550
TxDOT precertified in 2.3.1, 2.4.1, 2.6.1, 2.13.1

EXPERIENCE

Mr. Price is an environmental scientist with diverse experience in both business and technical aspects of the environmental industry. Utilizing his extensive background in geological and biological disciplines, he has developed expertise in environmental regulations, property assessments, hazardous waste testing and evaluation, wetland evaluation, endangered species audits, health and safety issues, and silviculture activities. Mr. Price specializes in site investigations relating to hazardous material and petroleum product contamination. His experience with the petroleum industry and contaminated site remediation allows him to effectively consult on cost efficient solutions to environmental impairment concerns. Mr. Price is involved with problem solving related to environmental and ecological issues, especially those that may hinder property transfer, land development activities, or oil and gas activities. He has developed a unique working relationship with many federal and state resource agencies responsible for project permitting and approval.

REPRESENTATIVE PROJECTS

- ***Andrau Industrial and Airpark Environmental Site Assessments,*** Private Development Project, Houston, Texas: Project Manager for the development and implementation of a work plan to assess the environmental risks posed by potential hazardous materials at the site. Tasks included sampling analytical methods, review of laboratory data for completeness and accuracy, interpretation of results, and preparation of final report.

- ***Pearland Manvel Dump Site***, Brazoria County District Attorney: Project Manager responsible for the Phase I Environmental Site Assessment and Phase II Testing. The project involved identifying portions of the site containing hazardous and radioactive liquids within the dumpsite. Groundwater monitoring and testing was conducted to evaluate potential off site transport of contaminants. Groundwater flow directions were determined for purposes of site closure. Recommendations to the PRP were made for future remediation goals to obtain state closure.

- ***Alamo Lumber Company***, Subsurface Investigation and Remediation, City of Houston, Texas: Project Manager for the Phase I, Phase II, and Phase III investigations and remediation of soil and groundwater. Contaminates of concern included Pentachlorophenol (PCP) and various Dioxins. The project required agency supervision and approvals. Closure was obtained through TCEQ.

- ***The Sprint Companies Landfill Expansion Environmental Assessment and Permitting Services***, Fort Bend County, Texas: Project Manager for the preparation of the Phase I Environmental Site Assessment for a 365-acre landfill site proposed to be expanded. The project was approved by the USACE, TCEQ, USFWS, and TPWD under a Clean Water Act Section 404 Permit with off-site mitigation banking.

- ***Houston Comprehensive Bikeway Program Environmental Assessment***, City of Houston, all locations, Environmental Assessment. Project Coordinator for the preparation of an Environmental Assessment (EA) for the comprehensive bikeways program covering 100 lineal miles and involving a TxDOT EA for ISTEA funding. The project involved the preparation of NEPA documentation and assessments of environmental issues, such as wetlands, hazardous waste, historic preservation, threatened and endangered species, air quality, noise, water quality, hydrology, and flood plains.

  - ***Little White Oak Bayou Hike & Bikeway Trail***: The proposed 0.6-mile trail begins southwest of the intersection of IH 45 and Loop 610 at Calvalcade Road and terminates along the IH 45 frontage road approximately 240 feet north of the intersection of Sylvester Road with the frontage road, in Harris County, Texas. Environmental clearance from TxDOT has been granted.

  - ***Keegans Bayou Hike & Bike Trail***: The proposed 3.9-mile trail begins on the north bank of Keegans Bayou at Kirkwood Drive and terminates on the south bank of Brays Bayou at S. Gessner Drive in southwestern Harris County, Texas.

  - ***Houston Heritage Corridor Bayou Trails (East Segment III)***: The proposed trail extends entirely on the southside of the bayou between North York Street and Lockwood Drive. The project is one segment of the multi-segment Houston Heritage Corridor System adopted by the City of Houston.

  - ***Westchase District Hike and Bike Trail***: The proposed trail would begin on Riverview Way, on the west side of the Harris County Flood Control District drainage ditch W157-00-00, and terminate at Richmond Avenue in southwestern Harris County, Texas. Environmental clearance from TxDOT has been granted.

  - ***Columbia Tap Hike and Bike Trail***: The proposed trail will begin at the on-street bicycle lane on Polk Street at the crossing of the abandoned Union Pacific (formerly Missouri-Pacific) Railroad tracks and terminate at the intersection of Bastrop Street and Texas Street in central Harris County, Texas. Environmental clearance from TxDOT has been granted.

  - ***Halls Bayou Hike and Bike Trail***: The proposed trail will begin on the north bank of Halls Bayou at Hirsch Road and terminate on the north bank of the bayou at Bretshire Road, west of the Union Pacific Railroad in central Harris County, Texas.

- ***Stafford-Staffordshire Road Expansion Environmental Assessment,*** City of Stafford, east Fort Bend County: Project Coordinator for the preparation of a TxDOT Environmental Assessment (EA) for the expansion of Stafford-Staffordshire Road through three jurisdictions (Harris County, City of Stafford, and City of Missouri City). The project involved preparation of a NEPA environmental assessment, including wetlands, hazardous waste, historic preservation, threatened and endangered species, air quality, water quality, hydrology, and flood plains.

- ***Sienna Plantation Environmental Assessment and Planning,*** Private Client, east Fort Bend County, Texas: Project Coordinator for an approximate 11,000-acre project involving current and long range environmental planning. The project involved assessment, permitting, and mitigation for many different tracts and sections of the development. Specific tasks included evaluation of existing wetlands, creation of constructed wetlands, overall project planning, and hazardous waste assessments. The project also included historic, cultural, and archaeological preservation; threatened and endangered species, coordination, land management, and contractor supervision.

- ***US 59 and Grand Parkway Limited Environmental Assessment,*** Private Development Project, Fort Bend County, Texas: Project Hazards Manager for the preparation of a Limited Environmental Assessment (EA) for a 500-acre land development between the Brazos River and US 59, bisected by the Grand Parkway. The project involved assessment and documentation of environmental issues, such as wetlands, hazardous waste, historic/archaeological investigation and preservation, threatened and endangered species, surface hydrology, and flood plains.

- ***Independence Boulevard, Murphy Road Detention and Drainage Facilities Environmental Assessments,*** City of Missouri City, east Fort Bend County, Texas: Project Coordinator for the preparation of an Environmental Assessment for the extension of Murphy Road, the Environmental Assessment for the Murphy Road Detention and Drainage Improvements, and other environmental evaluations for the City of Missouri City, Texas. Projects involved preparation of Section 404 permit documentation, and assessment of environmental issues, such as wetlands, hazardous waste, historic/archaeological investigation and preservation, and threatened and endangered species.

- ***Sugarland Oil and Gas Field Assessment and Compliance Review,*** Private Oil Company, northeast Fort Bend County: Project Coordinator for the environmental assessment and compliance review of a large oil field located around a salt dome structure. The property contained over 125 known oil and gas wells. Environmental evaluation included the evaluation of each currently producing and non-producing historic well site for hazardous material, toxic material, and petroleum products. Phase II site investigation and characterization is still ongoing.

- ***Dayton Rice Milling Environmental Services,*** Harris County, Texas: Evaluation of agricultural pump house on Lake Houston. The project involved responding to citizen complaint of hydrocarbon contamination in Lake Houston, placing booms in lake to contain discharge, remediation of impacted soils to eliminate the source of hydrocarbon leaks and coordinate with TCEQ, COH to receive NFA from agencies.

- ***Farias Ranch Environmental Site Assessment and Phase II Testing,*** PW Park 10, Inc., Maverick County, Texas: Conducted environmental site assessment and testing at a 100,000-acre ranch. The project involved performing Phase II Testing to identify potential impacts related to livestock dipping facilities located on the ranch property. The testing identified COC's, concentrations exceeding the TCEQ Texas specific background levels for certain metals and arsenic impacted soil at 3 historical cattle dipping vats. The project also involved remediation of the soils at each location, and submitting an Affected Property Assessment Report to the TCEQ and obtained state closure for these sites.

- ***Harris County Sports Authority Environmental Site Assessment and Phase II Testing***, Harris County, Texas: Conducted Environmental site assessment Phase I, Phase II Testing and Phase III of future Reliant Stadium site. Identify onsite LPST sites and ACM containing structures. Remediate and obtain closure for LPST sites through TCEQ. Perform ACM abatement of several structures and historic onsite pipeline. Perform demolition at structures. Conduct all projects simultaneously to be completed within tight time constraints for Reliant Stadium construction.

- ***AFG Properties Environmental Site Assessment and Phase II Testing***, Fort Bend County, Texas: Perform Phase I Environmental Site Assessment and Phase II Testing of the 3,000-acre historic sugarcane plantation. Discover impacted soil at two cattle dipping vat locations and oil and gas well site. Perform site clean up to residential standards for future master planned community.

- ***FM 1960 Roadway Widening***, *Harris County, Texas:* Performed environmental site assessment for TxDOT to identify potential constraints related to the widening of FM 1960. Identify multiple adjoining properties, which could impact alignment.

- ***Gosling Road***, Harris County, Texas: Project Coordinator for a Phase 1 Environmental Site Assessment for this TxDOT EA and Public Involvement for a 0.5-mile extension of Gosling Road, and its associated easements, located in northern Harris County. Project activities included a Phase I Environmental Site Assessment in conformance with the scope and limitations of ASTM Practice E 1527-00 for the proposed project. Along with a visual survey of the project area, sources reviewed include the USGS Tomball quadrangle, NRCS soil surveys, FEMA maps, city directories, historical aerial photographs, reviews of standard environmental record sources (including selected agency files), and a Tobin Oil and Gas Survey Map.