PRELIMINARY SITE ASSESSMENT

PARCEL #142, STRICKLAND CITGO NO. 6 2425 LEGION ROAD, FAYETTEVILLE, NORTH CAROLINA

FAYETTEVILLE – SR 1132 (LEGION ROAD) FROM SR 1363 (ELK ROAD)
TO SR 1007 (OWEN ROAD)
CUMBERLAND COUNTY, NORTH CAROLINA

NCDOT WBS ELEMENT 34865.2.3 STATE PROJECT U-2809B

December 20, 2010

Prepared for:

Ethan J. Caldwell, L.G., P. E.
North Carolina Department of Transportation
Geotechnical Engineering Unit
GeoEnvironmental Section
1589 Mail Service Center
Raleigh, North Carolina 27699-1589

Prepared by:

Kleinfelder Southeast, Inc. 313 Gallimore Dairy Road Greensboro, North Carolina 27409

Kleinfelder Project No. 113754

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December 20, 2010 File No. 113754 | GSO10R248

Ethan J. Caldwell, L.G., P. E. North Carolina Department of Transportation 1589 Mail Service Center Raleigh, North Carolina 27699-1589

Reference: Preliminary Site Assessment

WBS Element No. 34865.2.3, State Project U-2809B

Parcel # 142, Strickland Citgo No. 6 2425 Legion Road, Fayetteville **Cumberland County, North Carolina**

Dear Mr. Caldwell:

Please find enclosed a report summarizing the sampling activities for the preliminary site assessment conducted at the referenced site. Laboratory analysis of soil samples collected at the site did not detect petroleum hydrocarbon concentrations above the method detection limits of the laboratory methods. This report summarizes our field activities, results, laboratory report, and conclusions.

Should questions arise or additional information be required, please contact the undersigned.

Sincerely,

Kleinfelder Southeast, Inc.

Petek F. Pozzo, L.G. Staff Professional II

John M. Stewart, L.G. Senior Professional

PFP/JMS:cas **Enclosure**

PRELIMINARY SITE ASSESSMENT

Site Name and Location:

Parcel #142, Strickland Citgo No. 6

2425 Legion Road

Fayetteville, Cumberland County, North

Carolina

Latitude and Longitude:

35° 00' 50" N, 78° 54' 26" W

Facility ID Number:

0-012085

Land Owner

Donald Strickland

1894 Evans Dairy Road

Fayetteville, North Carolina 28312

UST Owner

Donald Strickland

2425 Legion Road

Fayetteville, North Carolina 28301

NCDOT Project No.:

NCDOT WBS Element 34865.2.3

State Project U-2809B

Date of Report:

December 20, 2010

Consultant:

Kleinfelder

313 Gallimore Dairy Road

Greensboro, North Carolina 27409

Attn: Mr. John M. Stewart Phone: 336.668.0093 X115

Seal and Signature of Certifying Licensed Geologist

I, John M. Stewart, a Licensed Geologist for Kleinfelder Southeast, Inc., do certify that the information contained in this report is correct and accurate to the best of my knowledge.

John M. Stewart, 6P.G

\$ 20/1E

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1.0 INTRODUCTION

Kleinfelder Southeast, Inc. (Kleinfelder) has prepared this Preliminary Site Assessment (PSA) report documenting the assessment activities performed at the Strickland Citgo No. 6 property (Parcel 142) located at 2425 Legion Road in Fayetteville, Cumberland County, North Carolina (Figure 1). This assessment was conducted on behalf of the North Carolina Department of Transportation (NCDOT) in accordance with Kleinfelder's October 7, 2010 proposal.

NCDOT is proposing to widen SR 1132 (Legion Road) from SR 1363 (Elk Road) to SR 1007 (Owen Road). The proposed right-of-way/easement is located along the west side of the Strickland Citgo No. 6 property (Figure 2). There is concern that contaminated soils could be encountered during the construction activities at this site.

The purpose of this assessment was to determine the presence or absence of impacted soil at the subject property in proposed right-of-way construction areas related to the widening of SR 1132 (Legion Road) from SR 1363 (Elk Road) to SR 1007 (Owen Road).

1.1 Site Description

The proposed right-of-way/easement is located along west side of the property owned by Donald Strickland and at the time of our site reconnaissance, this parcel was occupied by Strickland Citgo No. 6. The building on the property was reportedly used as a convenience store and gas station. A building was located in the middle of the property. A canopy with two gasoline dispensers was located at the front of the property. A tank field containing three USTs was located between the store and canopy approximately 25 feet from the proposed easement. Site photographs are shown in Appendix A.

1.2 Site Location

The facility is located on the east side of Legion Road approximately 200 feet south of the intersection of Legion Road and West Mountain (SR 1154). The site is bound to the west by Legion Road then wooded undeveloped property. The site is bound to the north by a Mexican restaurant and to the south and east by a hospice care facility.

1.3 NCDENR File Review

Kleinfelder reviewed incident files at the North Carolina Department of Environment and Natural Resources (NDENR) Fayetteville Regional Office. The site is an active gasoline station which uses two USTs (one 10,000-gallon and one 4,000-gallon) to store gasoline and one UST (2,500-gallon) to store kerosene. Three gasoline USTs and one kerosene UST were reportedly removed in May 2006. No incidents were reported for the property.

2.0 SITE ASSESSMENT

2.1 Geophysical Investigation

Pyramid Environmental & Engineering, P.C (Pyramid) conducted a geophysical investigation of the proposed right-of-way/easement on the west side of the property on October 21, 2010. Pyramid utilized electromagnetic (EM) induction technology to identify potential geophysical anomalies and potential USTs at the site. On October 29, 2010, Pyramid conducted a ground penetrating radar (GPR) survey of several magnetic anomalies identified during the EM survey. A more detailed description of their scope of work is explained in their Geophysical Investigation Report included in Appendix B. Prior to drilling the soil borings, buried utilities were marked by NC One Call and Northstate Utility Locating, Inc. (Northstate).

2.2 Soil Sampling

To determine if contaminated soil may be encountered during the proposed construction activities, soil samples were collected along the west side of the Strickland Citgo No. 6 property. A Kleinfelder geologist and direct push rig crew met at the property on November 17, 2010; Kleinfelder advanced seven soil borings

(SS-1 to SS-7) by direct push technology (DPT). The approximate location of the borings is shown on Figure 3.

Soil borings were advanced to a depth of eight feet below the ground surface (bgs). The borings were located along the proposed drainage features and near the corners of the existing pump island. Soil samples were collected by driving a macrocore sampler in 4-foot intervals in each boring. Each 4-foot sample sleeve was divided in half and screened for volatile organic compounds in the field using a MiniRae 2000 photoionization detectors (PID). In each boring, the soil interval with the highest PID reading was collected for laboratory analysis. If no organic vapors were detected, the sample collected from the bottom of the boring was submitted for analysis. The PID readings are summarized in Table 1. Copies of the boring logs are included in Appendix C.

Prior to the initial boring and after each subsequent boring, the sampling equipment was decontaminated. The soil samples collected for laboratory analysis were analyzed for total petroleum hydrocarbons (TPH) similar to diesel and gasoline (DRO/GRO) using EPA Method 8015B following 3550 and 5035 preparation. All soil samples were placed into laboratory provided jars, labeled, and maintained on ice until delivered to SGS, a NCDOT contract laboratory for chemical analysis.

3.0 RESULTS

3.1 Geophysical Investigation

Pyramid's results indicate that the GPR and EM investigation did not detect unknown metallic USTs within the survey area. Pyramid's report is included in Appendix B.

3.2 Soil Sample

Diesel range organics (DRO) and gasoline range organics (GRO) hydrocarbons were not detected at concentrations above the method detection limits in the soil samples. The laboratory results are summarized in Table 2 and on Figure 3. The laboratory report and associated chain-of-custody document are included in Appendix D.

4.0 CONCLUSIONS

Based on results of the laboratory analysis and field observations, Kleinfelder has the following conclusions:

- Groundwater was encountered in the soil borings at a depth of 7 to 8 feet below land surface; and
- TPH was not detected in the soil samples at concentrations above the method detection limits.

5.0 LIMITATIONS

Our work has been performed in a manner consistent with that level of care and skill ordinarily exercised by other members of Kleinfelder's profession practicing in the same locality, under similar conditions and at the date the services were provided. Our conclusions, opinions and recommendations are based on a limited number of observations and data. It is possible that conditions could vary between or beyond the data evaluated. Kleinfelder makes no guarantee or warranty, express or implied, regarding the services, communication (oral or written), report, opinion, or instrument of service provided.

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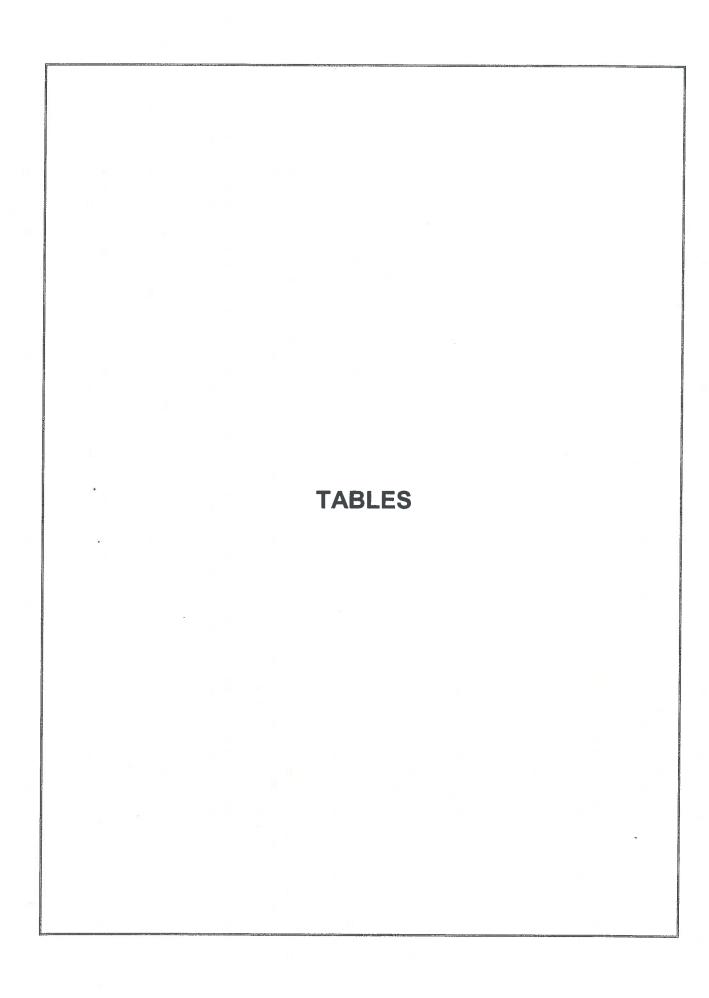


TABLE 1: SOIL SAMPLE PID RESULTS

SAMPLE LOCATION	DEPTH	PID
SAIVIPLE LOCATION	(feet bgs)	READINGS
	1.5 - 2.0	4
SS-1	3.5 - 4.0	4.2
33-1	5.5 - 6.0	5.2
	7.5 - 8.0	3.5
	1.5 - 2.0	3.1
SS-2	3.5 - 4.0	3.2
33-2	5.5 - 6.0	4.1
	7.5 - 8.0	3.8
	1.5 - 2.0	4.6
SS-3	3.5 - 4.0	4.2
33-3	5.5 - 6.0	5.6
	7.5 - 8.0	83.8
	1.5 - 2.0	2.3
SS-4	3.5 - 4.0	6.2
55-4	5.5 - 6.0	170
	7.5 - 8.0	180
	1.5 - 2.0	3.6
SS-5	3.5 - 4.0	4.2
33-3	5.5 - 6.0	1.4
	7.5 - 8.0	1.1
	1.5 - 2.0	1.4
SS-6	3.5 - 4.0	1.5
33-0	5.5 - 6.0	9 9 11.8
	7.5 - 8.0	1.4
	1.5 - 2.0	3.0
88.7	3.5 - 4.0	57.9
SS-7	5.5 - 6.0	124.0
	7.5 - 8.0	115.0

Notes:

Samples were collected on November 17, 2010.
Readings reported in parts per million feet bgs = feet below ground surface **Bold** = Selected for laboratory analysis

TABLE 2: SOIL SAMPLE ANALYTICAL SUMMARY

SAMPLE ID	COLLECTION DATE	DRO	GRO
SS-1 6.0 ft	11/17/2010	BQL	BQL
SS-2 6.0 ft	11/17/2010	BQL	BQL
SS-3 6.0 ft	11/17/2010	BQL	BQL
SS-4 6.0 ft	11/17/2010	BQL	BQL
SS-5 4.0 ft	11/17/2010	BQL	BQL
SS-6 6.0 ft	11/17/2010	BQL	BQL
SS-7 6.0 ft	11/17/2010	BQL	BQL
State Action Level		10	10

Notes:

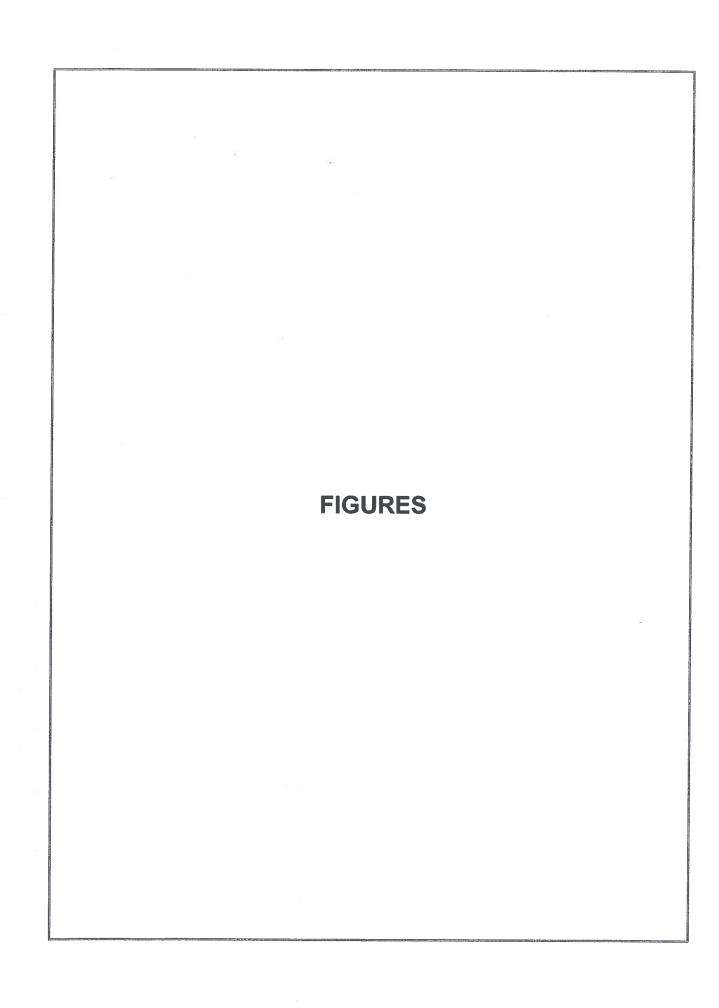
Sample collection depth is indicated in Sample ID, following sequential soil sample number Results presented in milligrams per kilogram, analogous to parts per million

DRO = Diesel Range Organics

GRO = Gasoline Range Organics

BQL = Below quantitation limit

Bold denotes concentration exceeds the State Action Level



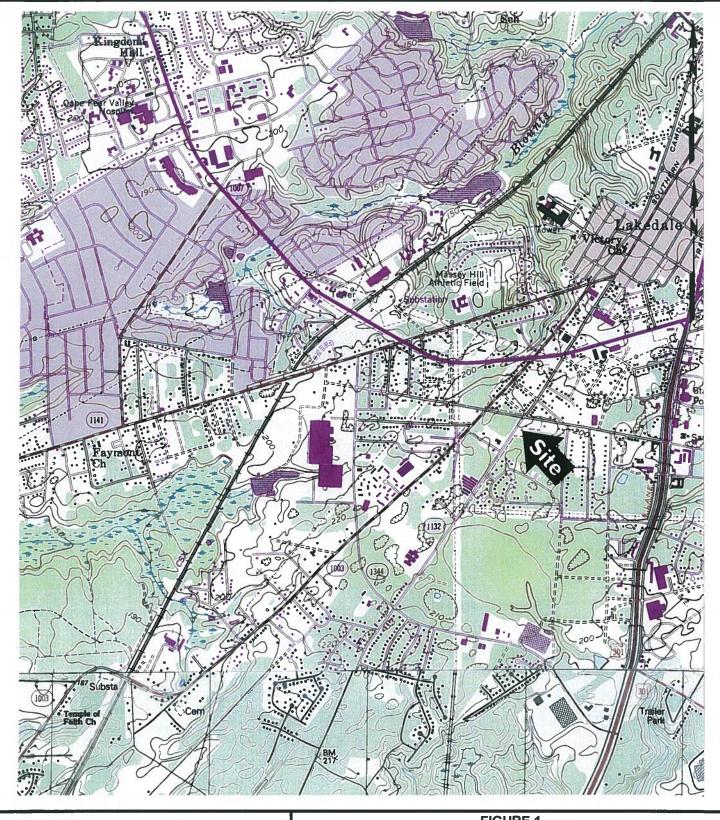




FIGURE 1 SITE LOCATION MAP

PARCEL # 142, STRICKLAND #6 CITCO 2462 LEGION ROAD CUMBERLAND COUNTY, NORTH CAROLINA

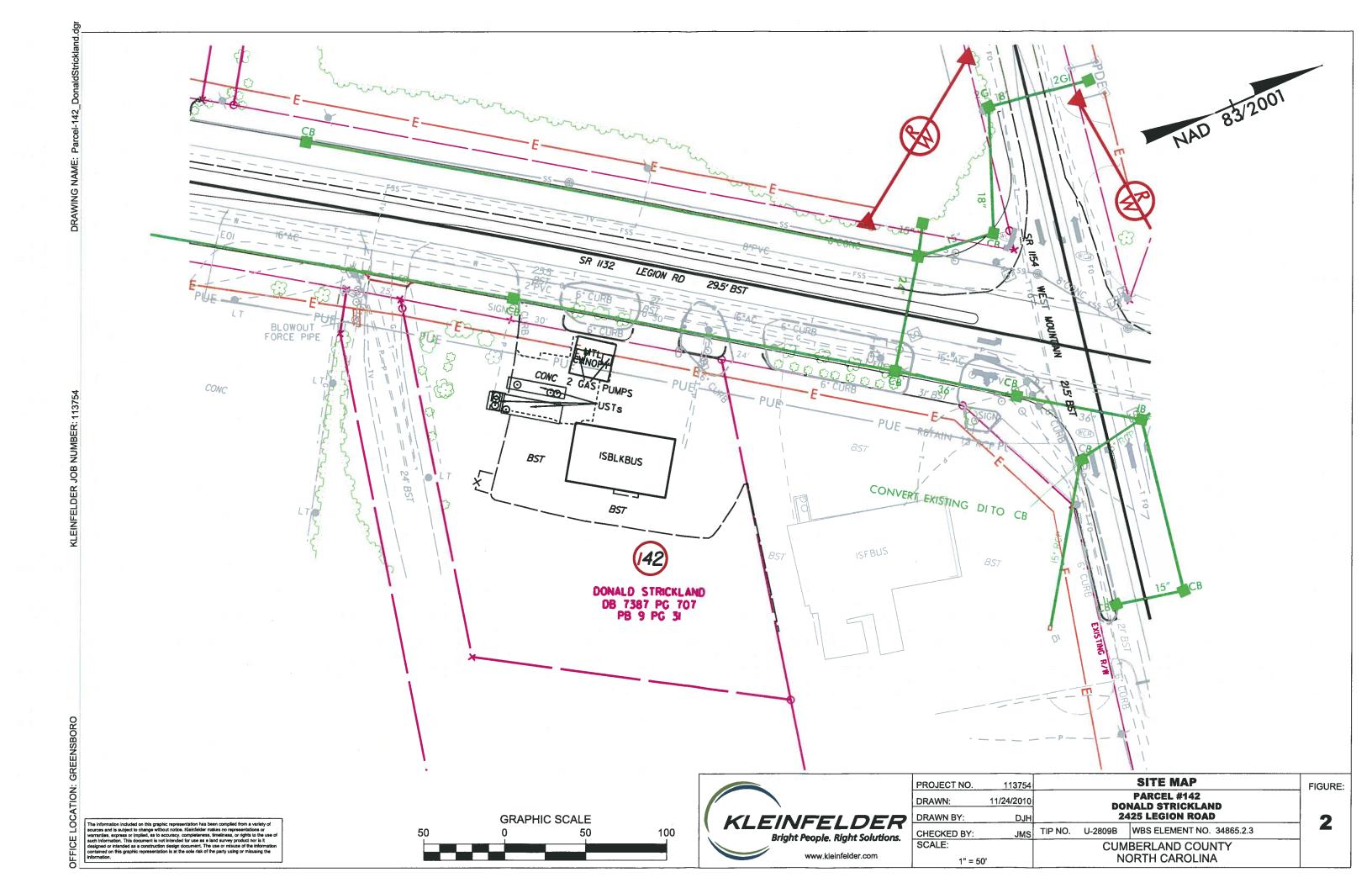
DATE: December 17, 2010

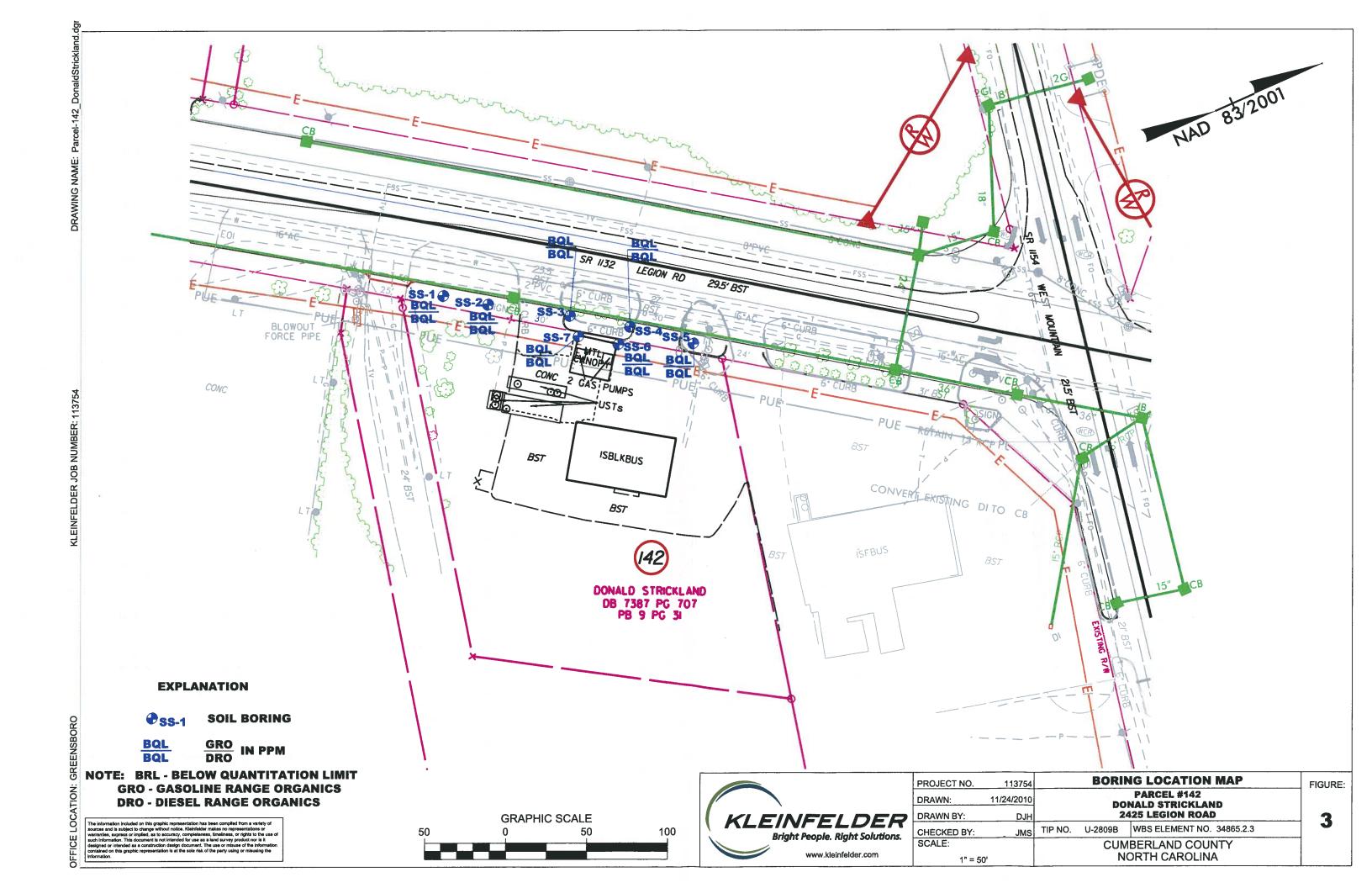
SOURCE: USGS 7.5' Topographic Map, Fayetteville & Hope Mills Quadrangle

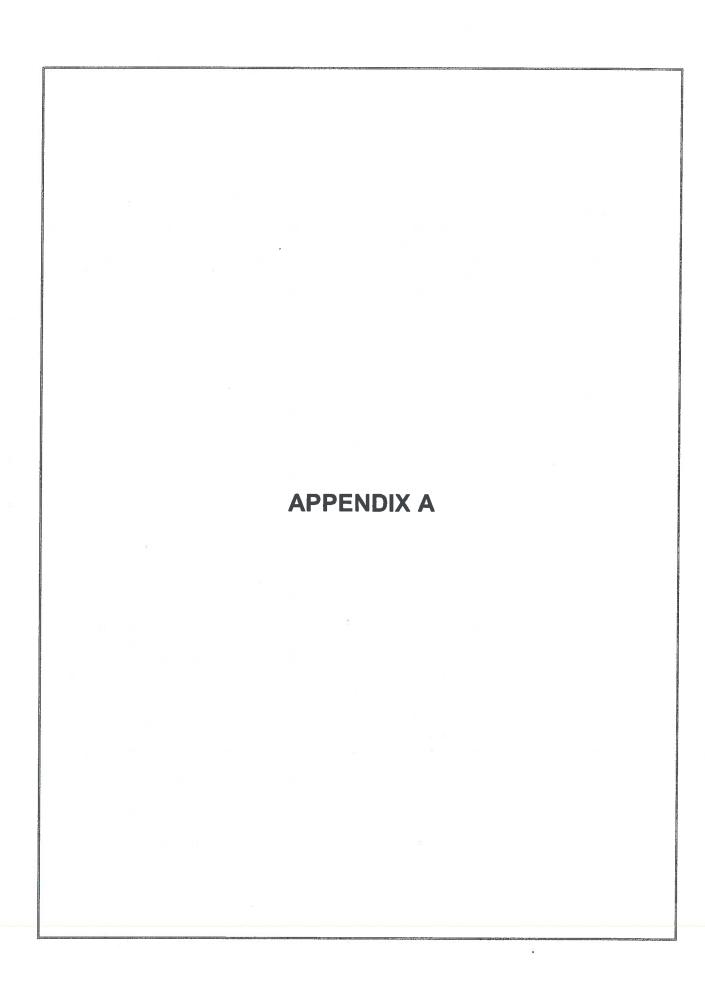
APPROVED BY

SCALE: 1" to 24,000'

PROJECT NO. 113754







SITE PHOTOGRAPHS KLEINFELDER PROJECT NO. 113754 PARCEL NO. 142 STRICKLAND #6 PROPERTY



Photograph 1 – View looking east at area of future DOT drainage

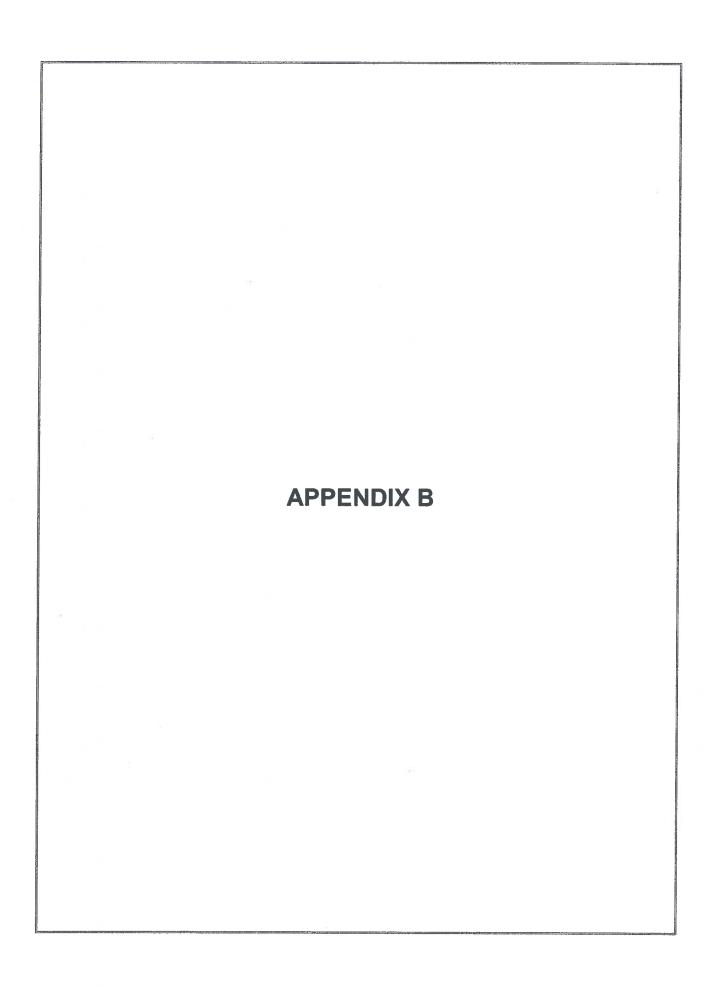


Photograph 2 – View looking southeast where two samples were collected in the grass island.

SITE PHOTOGRAPHS KLEINFELDER PROJECT NO. 113754 PARCEL NO. 142 STRICKLAND #6 PROPERTY



Photograph 3 – View looking south. A sample was collected from the two corners of the concrete pad.



GEOPHYSICAL INVESTIGATION REPORT

EM61 & GPR SURVEYS

PARCEL 142
Fayetteville, North Carolina

November 5, 2010

Report prepared for:

John Stewart P.G.

Kleinfelder

313 Gallimore Dairy Road Greensboro, NC 27409

Prepared by:

Mark J Denil P G

Reviewed by:

Douglas Canavello, P.G.

PYRAMID ENVIRONMENTAL & ENGINEERING, P.C. P.O. Box 16265 GREENSBORO, NC 27416-0265 (336) 335-3174

Kleinfelder GEOPHYSICAL INVESTIGATION REPORT DONALD STRICKLAND PROPERTY PARCEL 142

Fayetteville, North Carolina

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Figu	re 2 EM61 Metal Detection Results	

1.0 INTRODUCTION

Pyramid Environmental conducted a geophysical investigation for Kleinfelder across the western portion (proposed Right-of-Way area) of the Donald Strickland property (Parcel 142) located along the easterly side of Legion Road approximately 0.1 mile south of the Legion Road and West Mountain Drive intersection in Fayetteville, North Carolina. Conducted on October 21 and 29, 2010 the geophysical investigation was performed as part of the North Carolina Department of Transportation (NCDOT) preliminary site assessment project to determine if unknown, metallic, underground storage tanks (USTs) were present beneath the area of interest at Parcel 142.

Kleinfelder representative Mr. John Stewart, P.G provided site maps to Pyramid Environmental personnel during the week of September 30, 2010, which identified the geophysical survey area of the Strickland property. The geophysical survey area had a maximum length and width of 220 feet and 70 feet, respectively. Photographs of the geophysical equipment used in this investigation and a portion of the geophysical survey area at Parcel 142 are shown in **Figure 1**.

2.0 FIELD METHODOLOGY

Prior to conducting the geophysical investigation, a 10-foot by 10-foot survey grid was established across the geophysical survey area (property) using measuring tapes, pin flags and water-based marking paint. These grid marks were used as X-Y coordinates for location control when collecting the geophysical data and establishing base maps for the geophysical results.

The geophysical investigation consisted of electromagnetic (EM) induction-metal detection surveys. The EM survey was performed on October 21, 2010 using a Geonics EM61-MK1 metal detection instrument. According to the instrument specifications, the EM61 can detect a metal drum down to a maximum depth of approximately 8 feet. Smaller objects (1-foot or less in size) can be detected to a maximum depth of 4 to 5 feet. All of the EM61 data were digitally collected at approximately 0.8 foot intervals along northerly-southerly (X-axis) parallel survey lines spaced five feet apart. All of

the data were downloaded to a computer and reviewed in the field and office using the Geonics DAT61W and Surfer for Windows Version 7.0 software programs.

GPR surveys were conducted on October 29, 2010 across selected EM61 differential anomalies and steel reinforced concrete pavement using a GSSI SIR-2000 unit equipped with a 400 MHz antenna. Data were digitally collected in a continuous mode along X-axis and/or Y-axis survey lines, spaced 2.5 to 5.0 feet apart using a vertical scan of 512 samples, at a rate of 48 scans per second. A 70 MHz high pass filter and an 800 MHz low pass filter were used during data acquisition with the 400 MHz antenna. GPR data were collected down to a maximum depth of approximately 5 feet, based on an estimated two-way travel time of 8 nanoseconds per foot. All of the GPR data were downloaded to a field computer and reviewed in the field and office using Radprint software.

Contour plots of the EM61 bottom coil and differential results are presented in **Figure 2.** The bottom coil results represent the most sensitive component of the EM61 instrument and detect metal objects regardless of size. The bottom coil response can be used to delineate metal conduits or utility lines, small, isolated metal objects, and areas containing insignificant metal debris. The differential results are obtained from the difference between the top and bottom coils of the EM61 instrument. The differential results focus on the larger metal objects such as drum and UST-size objects and ignore the smaller insignificant metal objects.

Preliminary geophysical results obtained from Parcel 142 were reported to Mr. Stewart on November 2, 2010.

3.0 <u>DISCUSSION OF RESULTS</u>

The linear EM61 bottom coil anomalies intersecting grid coordinates X=25 Y=80, X=40 Y=220, X=41 Y=35, and X=50 Y=207 are probably in response to buried utility lines or conduits. The EM61 anomalies centered near grid coordinates X=30 Y=154, X=50 Y=85, X=60 Y=190, and X=65 Y=208 are probably in response to known surface objects such as metal poles, utility line-related boxes or guy wires. GPR data suggest the high amplitude EM61 anomaly centered near grid coordinates X=70

Y=137 is in response to steel reinforced concrete, the pump island and buried conduits. GPR data also suggest that the low amplitude EM61 differential anomaly centered near grid coordinates X=30 Y=43 is in response to a portion of a buried line.

The EM61 metal detection and GPR results suggest the surveyed portion of Parcel 142 does not contain metallic USTs.

4.0 SUMMARY & CONCLUSIONS

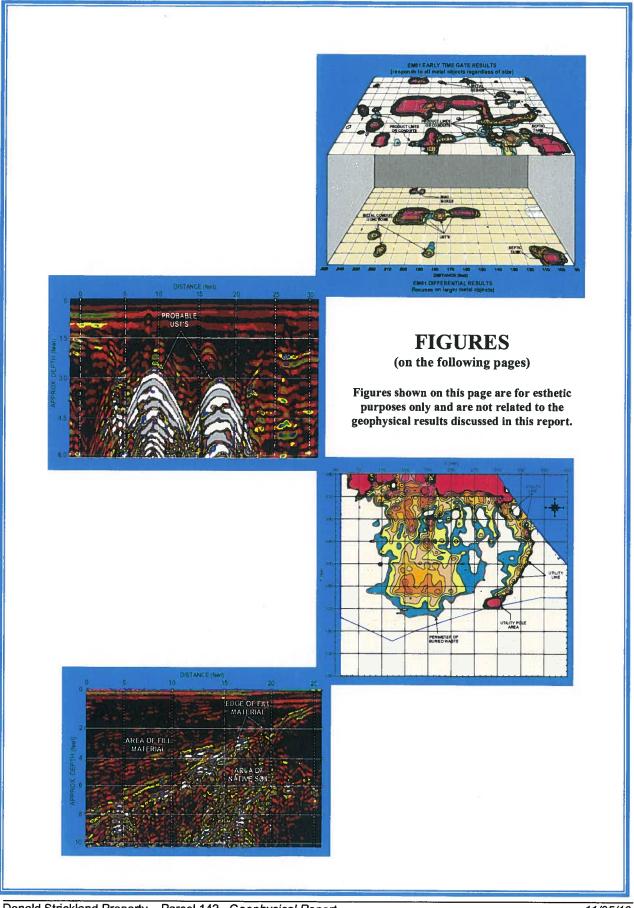
Our evaluation of the EM61 and GPR data collected across the area of interest at the Donald Strickland property (Parcel 142) located in Fayetteville, North Carolina, provides the following summary and conclusions:

- The EM61 and GPR surveys provided reliable results for the detection of metallic USTs within the surveyed portion of the site.
- The linear EM61 bottom coil anomalies intersecting grid coordinates X=25 Y=80, X=40 Y=220, X=41 Y=35, and X=50 Y=207 are probably in response to buried utility lines or conduits.
- GPR data suggest the high amplitude EM61 anomaly centered near grid coordinates X=70
 Y=137 is in response to steel reinforced concrete, the pump island and buried conduits
- The EM61 metal detection and GPR results suggest the surveyed portion of Parcel 142 does not contain metallic USTs.

5.0 <u>LIMITATIONS</u>

EM61 and GPR surveys have been performed and this report prepared for Kleinfelder in accordance with generally accepted guidelines for EM61 metal detection and GPR surveys. It is generally recognized that the results of the geophysical surveys are non-unique and may not represent actual

subsurface conditions. The geophysical results obtained for this project have not conclusively determined that the surveyed portion of the site does not contain unknown, buried, metallic USTs, but that none were detected.



The photograph shows the Geonics EM61 metal detector that was used to conduct the metal detection survey at Parcel 142 on October 21, 2010.





The photographs show the SIR-2000 GPR system equipped with a 400 MHz antenna that were used to conduct the ground penetrating radar investigation at Parcel 142 on October 29, 2010.



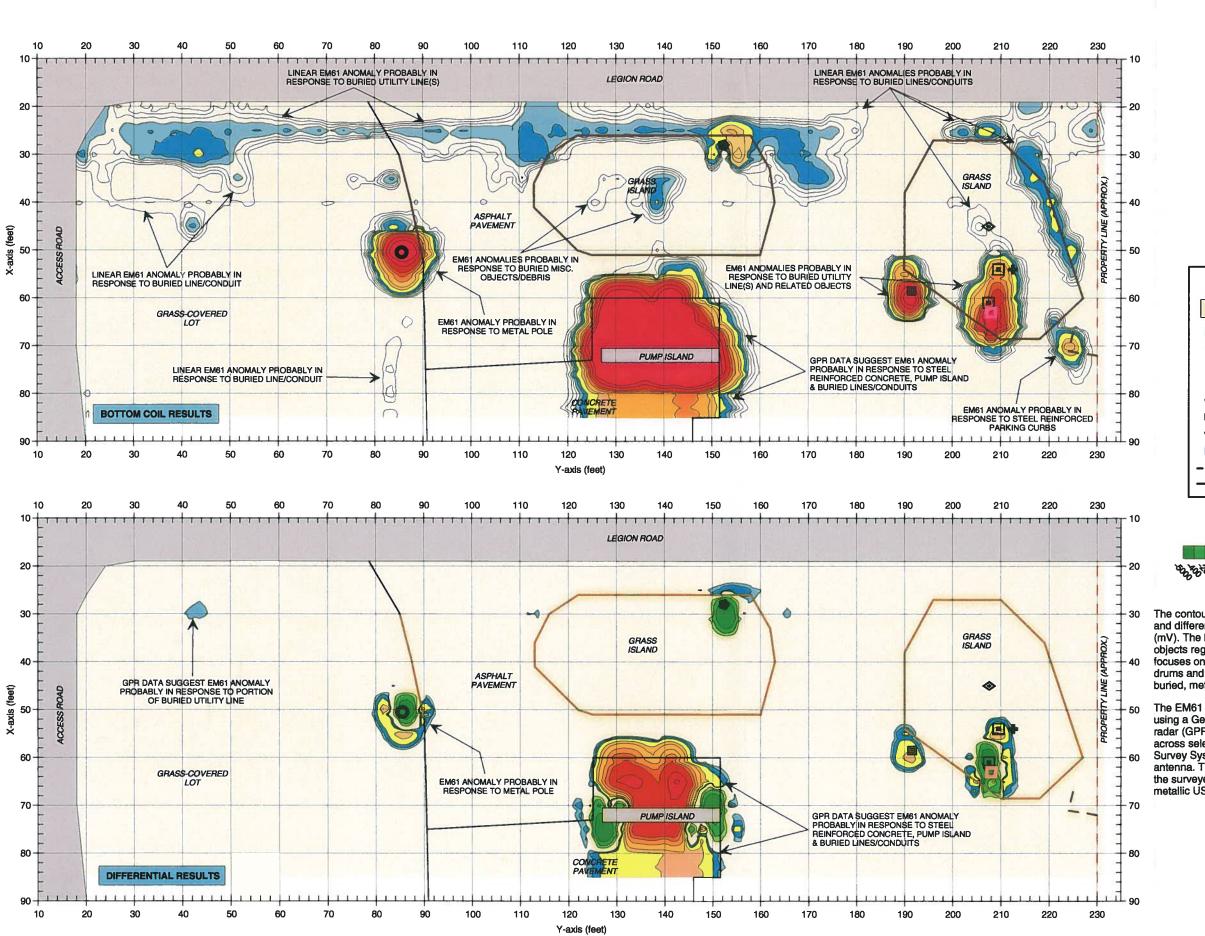
The photograph shows the front (western) portion of the Donald Strickland property (Parcel 142) located at the intersection of Legion Road and West Mountain Drive in Fayetteville, North Carolina. The photograph is viewed in a northeasterly direction.



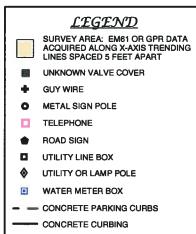
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ST.	8	DONALD STRICKLAND PROPERTY (PAI	RCEL 142)
No.		FAYETTEVILLE	CAROLINA &
		GEOPHYSICAL RESULTS	्र 2010-258 हुँ

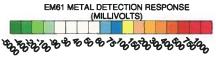
GEOPHYSICAL EQUIPMENT & SITE PHOTOGRAPHS

FIGURE 1



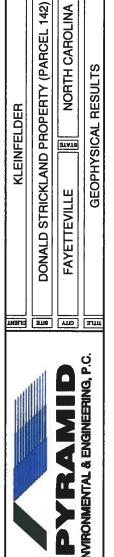






The contour plot shows the bottom coil (most sensitive) and differential results of the EM61 instrument in millivolts (mV). The bottom coil response shows buried metallic objects regardless of size. The differential response focuses on larger, buried metallic objects such as drums and USTs and ignores smaller miscellaneous, buried, metal debris.

The EM61 data were collected on October 21, 2010 using a Geonics EM61 instrument. Ground penetrating radar (GPR) data were acquired on October 29, 2010 across selected EM61anomalies using a Geophysical Survey Systems SIR 2000 instrument with a 400 MHz antenna. The geophysical investigation suggests that the surveyed portion of the property does not contain metallic USTs.

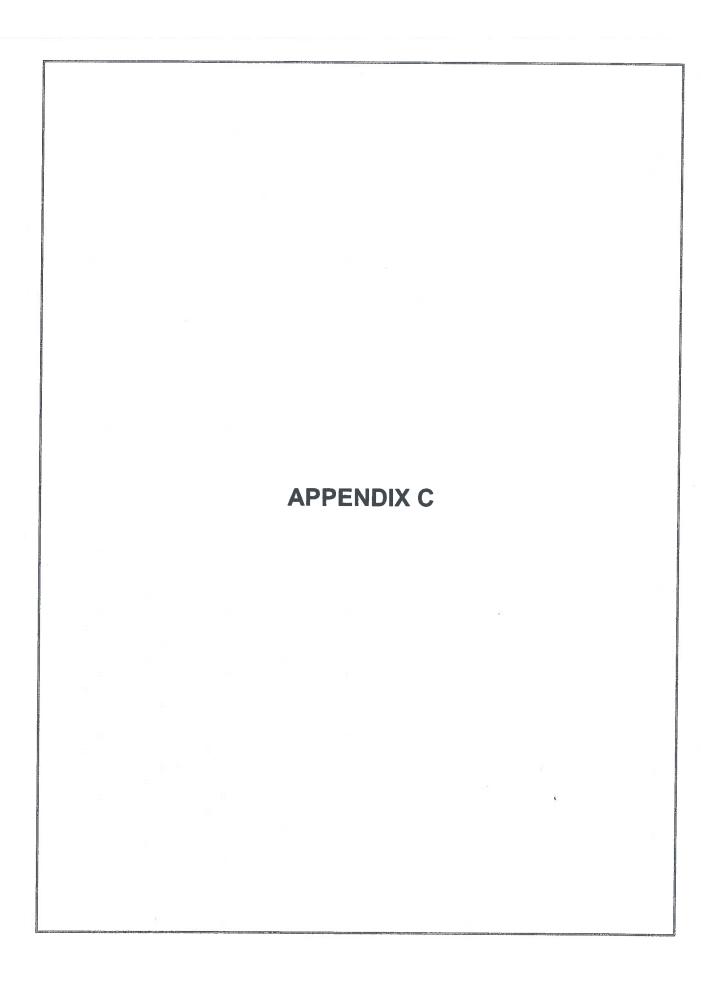


EM61 METAL DETECTION RESULTS

11/0 WW 0 WAT 1 1/03/10 09/Hz 09/Hz

NORTH CAROLINA

31A18



Project Name	e <u>U-280</u>)9B		**	Drill Contractor Kleinfelde Drill Method 2 inch Direct	Push	LOG OF BORING SHEET	
Number 113 Location Str		(#6 Citgo) #	142		Drilling Started 11/17/10 Logged By P. Pozzo	Ended 11/1//10	Total Depth 8.0 Depth To Water	
DEPTH SAM	IPLE O.	PID ppm	nscs	LITHOLOGY		DESCRIPTION		DEPTH
-			sw		Tan SAND	· · · · · · · · · · · · · · · · · · ·		-
		4.2	sw		Tan SAND			+
5-	SS	5.2	sw		White Tan SAND	,		-5
	1-6'	3.5	sw		White Tan SAND in Water Table			Ī
10—					Boring 1	Ferminated at 8 feet in R	ESIDUAL	
								- 10
15—								- - 1:
20-								- 20
25—								- - - 25
30-								- 30
-								1 -
KLEINFELDER Bapet trept Statemen	313 Gree Tele	nfelder Gallimore ensboro, I phone: 3	VC 27 36-66	7409 58-0	93	uple SS-1 collected at 6 f	t. submitted for laboratory analysis.	

Project Numbe	NCDOT Name U- r 113754 n Strickla			142		Drill Contractor Kleinfelder Drill Method 2 inch Direct Push Drilling Started 11/17/10 Ended 11/17/10 Logged By P. Pozzo Depth To Water	SS-2
DEPTH	SAMPLE NO.	BLOWS/FT	PID	nscs	LITHOLOGY	DESCRIPTION	DEPTH
-			3.1	sw		Tan SAND	
-			3.2	sw		Tan SAND	-
5-	SS 2-6'		4.1	sw		White Tan SAND in Water Table	5
-			3.8	sw		Boring Terminated at 8 feet in RESIDUAL	+
10-						Bulling Terminated at 0 feet in NESIDUAL	- - 10 -
15—		*!					- - - - 15
20		·					- - 20 -
- 25— - -							- - 25 - -
30-				-			- - 30 - -
						Paradia Camila 200 a albatal di 0.6 di 199 d	
KLEINF	G Te	reensl elepho	der Ilimore boro, N one: 3 86-668	VC 27 36-66	7409 68-0		

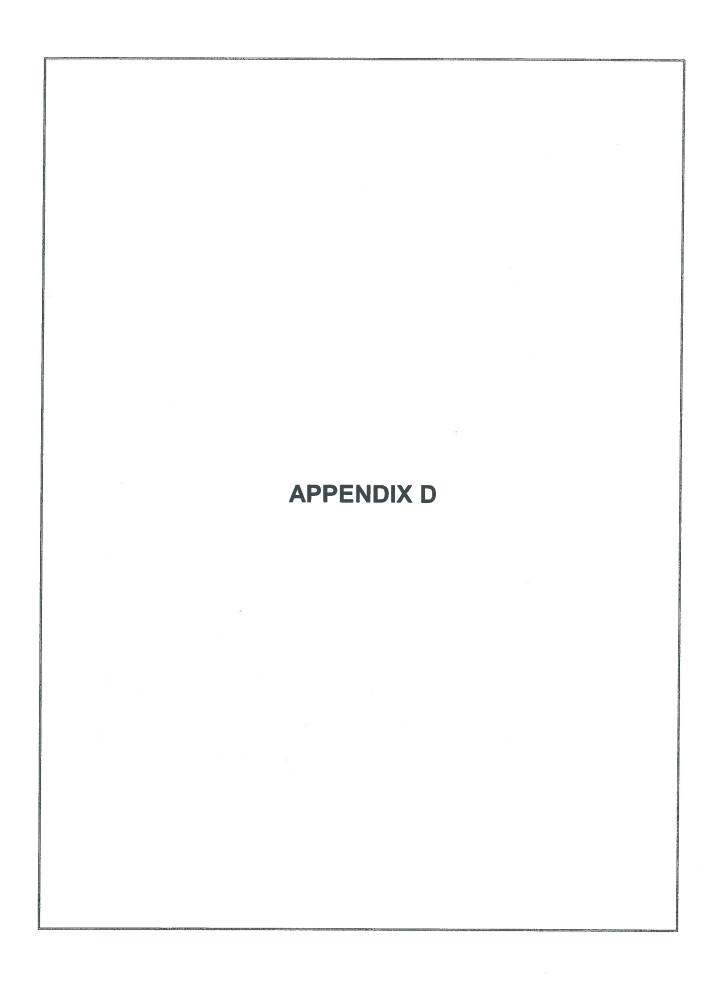
	NCDOT Name <u>U-2</u> 113754		5			Drill Contractor Kleinfelder Drill Method 2 inch Direct Push Drilling Started 11/17/10 Ended 11/1	Elevation	3 SS T 1 OI
	Stricklar		Citgo)#	142		Logged By P. Pozzo	Depth To Water	
DEPTH FEET	SAMPLE NO.	BLOWS/FT	PID	nscs	LITHOLOGY	DESCRIP	TION	DEPTH
-			4.6	sw		n SAND		-
			4.2	sw		n SAND		
5—	SS 3-6'		5.6	sw		ite Tan SAND		_ 5
	3-6		83.8	sw		ite Tan SAND in Water Table		T
_						Boring Terminated at 8	feet in RESIDUAL	Ŧ
10— - -								-1 -
15—								-
-								_
-					2			-
20								-2
-								-
25								-2
-								-
30-				ı				-3
		einfel				Remarks Sample SS-3 collect	ted at 6 ft. submitted for laboratory analysis.	
KLEINFE	Gr Te	eensi elepho	limore poro, N pne: 3: 86-668	VC 27 36-66	7409 88-0			

Project Number	NCDOT Name U- r 113754 n Stricklan		Citgo) #	142		Drill Contractor Kleinfelder LOG OF BORING Drill Method 2 inch Direct Push Elevation Drilling Started 11/17/10 Ended 11/17/10 Total Depth 8.0 Logged By P. Pozzo Depth To Water	SS-4
DEPTH FEET	SAMPLE NO.	BLOWS/FT	PID	nscs	LITHOLOGY	DESCRIPTION	DEPTH
_		-	2.3	sw		Tan SAND	
			6.2	sw		Tan SAND	
5-	SS 4-6'		170	sw		White Tan SAND	5
_			180	sw		White Tan SAND in Water Table	
10 - -						Boring Terminated at 8 feet in RESIDUAL	- - 10 -
15							- - - -
20-							- - 20 -
 25— 							- - 25 -
30-							- - - 30
-							-
30-	31 Gi Te	reensl elepho	der Ilimore boro, N one: 3	VC 27 36-66	7409 68-00		

Project Number	NCDOT Name U 113754		-	142		Dri Dn	ll Metho	actor Kle od 2 inch orted 11/	Direct F	Push	11/17/10		Elevation Total Depth _8.0 Depth To Water			S SS- T 1 OF
DEPTH	SAMPLE NO.	BLOWS/FT	PID	nscs	LITHOLOGY					DES	CRIPTION					DEPTH
-			3.6	sw		Tan SAND			-				-			
_	SS 5-4'		4.2	SW		White Tan				:			. ,			+
5— -			1.4	sw		White Tan	SAND i	in Water T	Table							5
<u>-</u>			1.1					В	Boring To	erminated	d at 8 feet	in RESI	DUAL			+
10-																10
-																
15—																- 15 -
-		,														-
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		-:						Remarks	Samr	nle SS-5 (rollected a	ıt Δ ft eı	hmitted (for Jahora	tory analysis.	<u></u>
KLEINFE	3° G To	reens elepho	aer Ilimore boro, N one: 3 36-668	NC 27 36-66	7409 38-0						d abbreviatio			S. IGDUIG	wiy undiyətə.	

Client NO Project Na Number _ Location _	me <u>U-2</u> 113754	<u> </u>	Citgo) #	142		Drill Contractor Kleinfelder Drill Method 2 inch Direct Push Drilling Started 11/17/10 Ended 11/17/10 Total Depth 8.0 Logged By P. Pozzo Depth To Water	SS- T 1 OF
DEPTH S.	AMPLE NO.	BLOWS/FT	PID	nscs	LITHOLOGY	DESCRIPTION	DEPTH
			1.4	sw		Tan SAND	
			1.5	sw		Tan SAND	-
5	ss		1.8	sw		White Tan SAND	-5
	6-6'		1.4	sw		White Tan SAND in Water Table	
Ţ	=					Boring Terminated at 8 feet in RESIDUAL	Ţ
10-							- 10 -
15—							- - 15
20-							- 20
25—							- - 25
30-							- - - 30
-							-
KLEINFELL Bys Raft Raft	31 Gr Te	eenstelepho	der Ilimore boro, None: 3	VC 27 36-66	7409 58-00	Remarks Sample SS-6 collected at 6 ft. submitted for laboratory analysis. See key sheet for symbols and abbreviations used above.	

Client NCDOT Project Name U-2809B Number 113754 Location Strickland (#6 Cit	itgo) #142	Drill Contractor Kleinfelder Drill Method 2 inch Direct Push Drilling Started 11/17/10 Ended 11/17/10 Logged By P. Pozzo	Elevation	SS-7 1 OF 1	
SW8	DID DID USCS USCS	DESCRIPTION	· .	DEPTH	
5— SS 7-6'	SW Tan S SM White	SAND Silty SAND Tan Silty SAND Tan Silty SAND in Water Table		-5	
10—	115	Boring Terminated at 8 feet in	n RESIDUAL	- 10 	
20-				- - - - 20	
25—				- - 25 - -	
30-				30 	
Kleinfelde 313 Gallir Greensbo Telephone Fax: 336-	er more Dairy Road oro, NC 27409 ne: 336-668-0093 6-668-3868	Remarks See key sheet for symbols and abbreviation	ns used above.		





Peter Pozzo Trigon/Kleinfelder 313 Gallimore Dairy Road Greensboro, NC 27409

Report Number:

G118-597

Client Project:

NCDOT Fayetteville PSA

Dear Peter Pozzo,

Enclosed are the results of the analytical services performed under the referenced project for the received samples and associated QC as applicable. The samples are certified to meet the requirements of the National Environmental Laboratory Accreditation Conference Standards. Copies of this report and supporting data will be retained in our files for a period of five years in the event they are required for future reference. Any samples submitted to our laboratory will be retained for a maximum of thirty (30) days from the date of this report unless other arrangements are requested.

If there are any questions about the report or services performed during this project, please call Lori Lockamy at (910) 350-1903. We will be happy to answer any questions or concerns which you may have.

Thank you for using SGS North America, Inc. for your analytical services. We look forward to working with you again on any additional analytical needs.

Sincerely,

SGS North America, Inc.

Project Manage Lori Lockamy 12/10/10

List of Reporting Abbreviations And Data Qualifiers

B = Compound also detected in batch blank

BQL = Below Quantification Limit (RL or MDL)

DF = Dilution Factor

Dup = Duplicate

D = Detected, but RPD is > 40% between results in dual column method.

E = Estimated concentration, exceeds calibration range.

J = Estimated concentration, below calibration range and above MDL

LCS(D) = Laboratory Control Spike (Duplicate)

MDL = Method Detection Limit

MS(D) = Matrix Spike (Duplicate)

POL = Practical Quantitation Limit

RL/CL = Reporting Limit / Control Limit

RPD = Relative Percent Difference

UJ = Target analytes with recoveries that are 10% < %R < LCL; # of MEs are allowable and compounds are not detected in the sample.

mg/kg = milligram per kilogram, ppm, parts per million

ug/kg = micrograms per kilogram, ppb, parts per billion

mg/L = milligram per liter, ppm, parts per million

ug/L = micrograms per liter, ppb, parts per billion

% Rec = Percent Recovery

% soilds = Percent Solids

Special Notes:

- 1) Metals and mercury samples are digested with a hot block; see the standard operating procedure document for details.
- 2) Uncertainty for all reported data is less than or equal to 30 percent.

MI34.021808.4

Results for Total Petroleum Hydrocarbons by GC/FID 8015

Client Sample ID: 142 SS-1 6'

Client Project ID: NCDOT Fayetteville PSA

Lab Sample ID: G118-597-22A

Lab Project ID: G118-597

Report Basis: Dry Weight

Analyzed By: LMC

Date Collected: 11/17/2010 14:04

Date Received: 11/19/2010

Matrix: Soil

Solids 96.94

Analyte	Result	RL		Units	Dilution Factor	Date Analyzed
Gasoline Range Organics	BQL	5.32		mg/Kg	1	11/30/10 02:28
Surrogate Spike Results BFB		Added 100	Result 95.0	Recovery 95.0	Flag	Limits 70-130

Comments:

Batch Information

Analytical Batch: VP112910 Analytical Method: 8015 Instrument ID: GC4

Analyst: LMC

Prep Method: 5035 Initial Wt/Vol: 5.82 g

Final Volume: 5 mL

Analyst: W

Reviewed By: Page 53 of 118 XLS

NC Certification #481 N.C. Certification #481

Results for Total Petroleum Hydrocarbons by GC/FID 8015

Client Sample ID: 142 SS-1 6'

Client Project ID: NCDOT Fayetteville PSA

Lab Sample ID: G118-597-22D Lab Project ID: G118-597 Date Collected: 11/17/2010 14:04

Date Received: 11/19/2010

Matrix: Soil Solids 96.94

Report Basis: Dry Weight

Parameter	Result	RL	Units	Dilution Factor	Date Analyzed
Diesel Range Organics	BQL	6.39	mg/Kg	1	11/22/10 17:52
Surrogate Spike Results OTP		Spike Added 40	Control Limits 40-140	Spike Result 31.9	Percent Recovery 79.7

Comments:

Batch Information

Analytical Batch: EP112210 Analytical Method: 8015

Instrument: GC6
Analyst: DTF

Prep batch: 17791 Prep Method: 3541

Prep Date: 11/19/10 Initial Prep Wt/Vol: 32.3 G

Prep Final Vol: 10 mL

Analyst: FX

NC Certification #481

N.C. Certification #481

Reviewed By: DRO.XLS
Page 94 of 118

Results for Total Petroleum Hydrocarbons by GC/FID 8015

Client Sample ID: 142 SS-2 6'

Client Project ID: NCDOT Fayetteville PSA

Lab Sample ID: G118-597-23A

Lab Project ID: G118-597

Report Basis: Dry Weight

Analyzed By: LMC

Date Collected: 11/17/2010 13:52

Date Received: 11/19/2010

Matrix: Soil

Solids 96.01

Analyte	Result	RL		Units	Dilution Factor	Date Analyzed
Gasoline Range Organics	BQL	5.74		mg/Kg	1	11/30/10 02:55
Surrogate Spike Results		Added	Result	Recovery	Flag	Limits
BFB Comments:		100	97.9	97.9		70-130

Batch Information

Analytical Batch: VP112910 Analytical Method: 8015

Instrument ID: GC4

Analyst: LMC

Prep Method: 5035 Initial Wt/Vol: 5.44 g

Final Volume: 5 mL

Analyst: LMC

Reviewed By: Page 54 of GROXLS

Results for Total Petroleum Hydrocarbons by GC/FID 8015

Client Sample ID: 142 SS-2 6'

Client Project ID: NCDOT Fayetteville PSA

Lab Sample ID: G118-597-23D Lab Project ID: G118-597 Date Collected: 11/17/2010 13:52

Date Received: 11/19/2010

Matrix: Soil Solids 96.01

Report Basis: Dry Weight

Parameter	Result	RL	Units	Dilution Factor	Date Analyzed
Diesel Range Organics	BQL	6.50	mg/Kg	1	11/22/10 18:20
Surrogate Spike Results OTP		Spike Addeđ 40	Control Limits 40-140	Spike Result 30.7	Percent Recovery 76.8
OIP		40	40-140	30.7	70.0

Comments:

Batch Information

Analytical Batch: EP112210 Analytical Method: 8015

Instrument: GC6
Analyst: DTF

Prep batch: 17791 Prep Method: 3541 Prep Date: 11/19/10 Initial Prep Wt/Vol: 32.07 G

Prep Final Vol: 10 mL

Analyst: _£

Reviewed By: __

NC Certification #481

Results for Total Petroleum Hydrocarbons by **GC/FID 8015**

Client Sample ID: 142 SS-3 6'

Client Project ID: NCDOT Fayetteville PSA

Lab Sample ID: G118-597-24A

Lab Project ID: G118-597

Report Basis: Dry Weight

Analyzed By: LMC

Date Collected: 11/17/2010 13:39

Date Received: 11/19/2010

Matrix: Soil

Solids 96.35

Analyte	Result	RL	Units	Dilution Factor	Date Analyzed
Gasoline Range Organics	BQL	5.73	mg/Kg	1	11/30/10 03:22
Surrogate Spike Results		Added	Result Recovery	Flag	Limits
BFB		100	96.9 96.9	. 109	70-130

Comments:

Batch Information

Analytical Batch: VP112910 Analytical Method: 8015

Instrument ID: GC4

Analyst: LMC

Prep Method: 5035 Initial Wt/Vol: 5.43 g

Final Volume: 5 mL

Analyst: W

Results for Total Petroleum Hydrocarbons by GC/FID 8015

Client Sample ID: 142 SS-3 6'

Client Project ID: NCDOT Fayetteville PSA

Lab Sample ID: G118-597-24D Lab Project ID: G118-597

Date Collected: 11/17/2010 13:39

Date Received: 11/19/2010

Matrix: Soil **Solids 96.35**

Report Basis: Dry Weight

Parameter	Result	RL	Units	Dilution Factor	Date Analyzed	
Diesel Range Organics	BQL	6.46	mg/Kg	1	11/22/10 18:48	
Surrogate Spike Results		Spike Added	Control Limits	Spike Result	Percent Recovery	
OTP		40	40-140	30.1	75.2	

Comments:

Batch Information

Analytical Batch: EP112210 Analytical Method: 8015 Instrument: GC6

Analyst: DTF

Prep batch: 17791 Prep Method: 3541 Prep Date: 11/19/10

Initial Prep Wt/Vol: 32.12 G Prep Final Vol: 10 mL

Analyst: _____

NC Certification #481

N.C. Certification #481

Reviewed By Page 96 of 118

Results for Total Petroleum Hydrocarbons by GC/FID 8015

Client Sample ID: 142 SS-4 6'

Client Project ID: NCDOT Fayetteville PSA

Lab Sample ID: G118-597-25A

Lab Project ID: G118-597

Report Basis: Dry Weight

Analyzed By: LMC

Date Collected: 11/17/2010 13:26

Date Received: 11/19/2010

Matrix: Soil

Solids 95.70

Analyte	Result	RL		Units	Dilution Factor	Date Analyzed
Gasoline Range Organics	BQL	5.90		mg/Kg	1	11/30/10 03:49
Surrogate Spike Results		Added	Result	Recovery	Flag	Limits
BFB		100	94.3	94.3	9	70-130
Comments:						

Batch Information

Analytical Batch: VP112910

Analytical Method: 8015 Instrument ID: GC4

Analyst: LMC

Prep Method: 5035 Initial Wt/Vol: 5.31 g

Final Volume: 5 mL

Analyst: _____

Reviewed By: W

Results for Total Petroleum Hydrocarbons by GC/FID 8015

Client Sample ID: 142 SS-4 6'

Client Project ID: NCDOT Fayetteville PSA

Lab Sample ID: G118-597-25D Lab Project ID: G118-597

Date Collected: 11/17/2010 13:26

Date Received: 11/19/2010

Matrix: Soil Solids 95.70

Report Basis: Dry Weight

Result	RL	Units	Dilution Factor	Date Analyzed
BQL	6.38	mg/Kg	1	11/22/10 22:07
	Spike Added 40	Control Limits 40-140	Spike Result 29.6	Percent Recovery 74
	******	BQL 6.38 Spike Added	BQL 6.38 mg/Kg Spike Control Added Limits	BQL 6.38 mg/Kg 1 Spike Control Spike Added Limits Result

Comments:

Batch Information

Analytical Batch: EP112210 Analytical Method: 8015

Instrument: GC6 Analyst: DTF

Prep batch: 17791 Prep Method: 3541 Prep Date: 11/19/10

Initial Prep Wt/Vol: 32.75 G

Prep Final Vol: 10 mL

Analyst: #X

NC Certification #481

N.C. Certification #481

Page 97 of 118

Results for Total Petroleum Hydrocarbons by GC/FID 8015

Client Sample ID: 142 SS-5 4'

Client Project ID: NCDOT Fayetteville PSA

Lab Sample ID: G118-597-26A

Lab Project ID: G118-597

Report Basis: Dry Weight

Analyzed By: LMC

Date Collected: 11/17/2010 13:14

Date Received: 11/19/2010

Matrix: Soil

Solids 95.29

Analyte	Result	RL		Units	Dilution Factor	Date Analyzed
Gasoline Range Organics	BQL	5.62		mg/Kg	1	11/30/10 04:16
Surrogate Spike Results					_	
BFB		Added 100	Result 96.9	Recovery 96.9	Flag	Limits 70-130
		.00	55.0	23.0		

Comments:

Batch Information

Analytical Batch: VP112910 Analytical Method: 8015 Instrument ID: GC4

Analyst: LMC

Prep Method: 5035 Initial Wt/Vol: 5.6 g

Final Volume: 5 mL

Analyst: W

Reviewed By: 989.XLS

Results for Total Petroleum Hydrocarbons by GC/FID 8015

Client Sample ID: 142 SS-5 4'

Client Project ID: NCDOT Fayetteville PSA

Lab Sample ID: G118-597-26D Lab Project ID: G118-597

Date Collected: 11/17/2010 13:14

Date Received: 11/19/2010

Matrix: Soil Solids 95.29

Report Basis: Dry Weight

Parameter	Result	RL	Units	Dilution Factor	Date Analyzed
Diesel Range Organics	BQL	6.22	mg/Kg	1	11/25/10 23:56
Surrogate Spike Results		Spike Added	Control Limits	Spike Result	Percent Recovery
OTP		40	40-140	29.6	73.9

Comments:

Batch Information

Analytical Batch: EP112410 Analytical Method: 8015 Instrument: GC6

Analyst: DTF

Prep batch: 17808 Prep Method: 3541 Prep Date: 11/23/10 Initial Prep Wt/Vol: 33.72 G

Prep Final Vol: 10 mL

Analyst: _____

NC Certification #481

Results for Total Petroleum Hydrocarbons by GC/FID 8015

Client Sample ID: 142 SS-6 6'

Client Project ID: NCDOT Fayetteville PSA

Lab Sample ID: G118-597-27A

Lab Project ID: G118-597

Report Basis: Dry Weight

Analyzed By: LMC

Date Collected: 11/17/2010 13:01

Date Received: 11/19/2010

Matrix: Soil Solids 96.07

Analyte	Result	RL		Units	Dilution Factor	Date Analyzed
Gasoline Range Organics	BQL	5.88		mg/Kg	1	11/30/10 04:42
Surrogate Spike Results		Added	Result	Recovery	Flag	Limits
BFB		100	94.1	94.1		70-130

Comments:

Batch Information

Analytical Batch: VP112910 Analytical Method: 8015

Instrument ID: GC4

Analyst: LMC

Prep Method: 5035

Initial Wt/Vol: 5.31 g Final Volume: 5 mL

Analyst: \\

Reviewed By: Page 58 of GROXLS

Results for Total Petroleum Hydrocarbons by GC/FID 8015

Client Sample ID: 142 SS-6 6'

Client Project ID: NCDOT Fayetteville PSA

Lab Sample ID: G118-597-27D Lab Project ID: G118-597 Date Collected: 11/17/2010 13:01

Date Received: 11/19/2010

Matrix: Soil Solids 96.07

Report Basis: Dry Weight

Parameter	Result	RL	Units	Dilution Factor	Date Analyzed
Diesel Range Organics	BQL	6.22	mg/Kg	1	11/26/10 00:23
Surrogate Spike Results OTP		Spike Added 40	Control Limits 40-140	Spike Result 32	Percent Recovery 80

Comments:

Batch Information

Analytical Batch: EP112410 Analytical Method: 8015

Instrument: GC6
Analyst: DTF

Prep batch: 17808 Prep Method: 3541 Prep Date: 11/23/10

Initial Prep Wt/Vol: 33.45 G Prep Final Vol: 10 mL

Analyst: FX

NC Certification #481

Reviewed By:

Page 99 of 118

Results for Total Petroleum Hydrocarbons by GC/FID 8015

Client Sample ID: 142 SS-7 6'

Client Project ID: NCDOT Fayetteville PSA

Lab Sample ID: G118-597-28A

Lab Project ID: G118-597

Report Basis: Dry Weight

Analyzed By: LMC

Date Collected: 11/17/2010 12:50

Date Received: 11/19/2010

Matrix: Soil

Solids 95.31

Analyte	Result	RL		Units	Dilution Factor	Date Analyzed
Gasoline Range Organics	BQL	5.54		mg/Kg	1	11/30/10 05:09
Surrogate Spike Results BFB		Added 100	Result 94.4	Recovery 94.4	Flag	Limits 70-130

Batch Information

Comments:

Analytical Batch: VP112910 Analytical Method: 8015

Instrument ID: GC4

Analyst: LMC

Prep Method: 5035

Initial Wt/Vol: 5.68 g Final Volume: 5 mL

Titlat Volume. O mil

Analyst: _____

Reviewed By: Page 59 of GRO.XLS

NC Certification #481 N.C. Certification #481

Results for Total Petroleum Hydrocarbons by GC/FID 8015

Client Sample ID: 142 SS-7 6'

Client Project ID: NCDOT Fayetteville PSA

Lab Sample ID: G118-597-28D

Lab Project ID: G118-597

Date Collected: 11/17/2010 12:50

Date Received: 11/19/2010

Matrix: Soil Solids 95.31

Report Basis: Dry Weight

Parameter	Result	RL	Units	Dilution Factor	Date Analyzed
Diesel Range Organics	BQL	6.28	mg/Kg	1	11/26/10 00:52
Surrogate Spike Results OTP		Spike Added 40	Control Limits 40-140	Spike Result 30.4	Percent Recovery 75.9

Comments:

Batch Information

Analytical Batch: EP112410
Analytical Method: 8015

Instrument: GC6
Analyst: DTF

Prep batch: 17808 Prep Method: 3541 Prep Date: 11/23/10

Initial Prep Wt/Vol: 33.43 G Prep Final Vol: 10 mL

Analyst: #X

NC Certification #481

N.C. Certification #481

Reviewed By: ORO.XLS

Page 100 of 118

SGS Reference:

S

PHONE NO: (336) 668 0093

www.us.sgs.com

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REMARKS Р Temperature C. 4.6 5: Samples Received Cold? (Circle) PAGE Wall Right Shipping Ticket No: 3-1865,2.3 Shipping Carrier:

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FAX NO.:(

John Stewart

REPORTS TO: PEREL BZZU

INVOICE TO: CASO) Shore

MATRIX

TIME

DATE

SAMPLE IDENTIFICATION

LAB NO.

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SAMPLE

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PROJECT: NCOOT FA-JESTEVAILE PANSION: 4

CONTACT: YELL 1022LD

Klen feldor

CLIENT

SGS North America, Inc.

	V	
\	200 W. Potter Drive Anchorage, AK 99518 Tel: (907) 562-2343 Fax: (907) 561-530T	5500 Business Drive Wilmlanton NC 28405 Tel: (040) 250, 1003 Env. (040) 250, 4557
-	907) 562-2343	1010) 250 100
	AK 99518 Tel: (NC 3840E Tol
	e Anchorage,	No Wilmington
	00 W. Potter Driv	500 Business Dr
- 1	ಸ	č

White - Retained by Lab Pink - Retained by Client

□ STD

Requested Turnaround Time:

ABSENT

BROKEN

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Special Instructions:

Received By:

Time

Date

Relinquished By: (3)

Received By

Chain of Custody Seal: (Circle)

Special Deliverable Requirements:

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Collected/Relinquished/By:(1)

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Received By:

Time

Date

(shed/By: (2)

Relinquished By: (4)



SGS Reference:

SAMPLE

PHONE NO: (336) 668 0093

CONTACT: PETER 19220

Kleinfelder

CLIENT

PROJECT: NCDOT PATENTISIPENSION: 4-28-09-13

₽ Q

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Locations Nationwide

Alaska
New Jersey
North Carolina

www.us.sgs.com

099437

REMARKS YES/ P Samples Received Cold? (Circle Temperature °C: 4.6,51 b Shipping Ticket No: Shipping Carrier: WBS 34865 2.

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QUOTE #: NC

FAX NO.:(

John Stewar

INVOICE TO: CATO | Shore

REPORTS TO. PET A BUZO

MATRIX

TIME

DATE

SAMPLE IDENTIFICATION

LAB NO.

SGS North America, Inc.

© 200 W. Potter Drive Anchorage, AK 98518 Tel: (907) 562-2343 Fex: (907) 561-2501 © 5500 Business Drive Wilmington, NC 28405 Tel: (910) 350-1903 Fex: (910) 350-1557

White - Retained by Lab Pink - Retained by Client

□ STD

Date Needed

Requested Turnaround Time:

□ RUSH.

Special Instructions:

Received By

Time

Date

Relinquished By: (3)

Received By

Date

Relinquished By: (4)

ABSENT

BROKEN

INTACT

Chain of Custody Seal: (Circle)

Special Deliverable Requirements:

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Received By:

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Date /

Relinquished By: (2)

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Locations Nationwide

AlaskaNew JerseyNorth Carolina

www.us.sgs.com

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□ 200 W. Potter Drive Anchorage, AK 99518 Tel: (901) 562-2343 Fax: (907) 561-530_□ 5500 Business Drive Wilmington, NC 28405 Tel: (910) 350-1903 Fax: (810) 350-1557

White - Retained by Lab Pink - Retained by Client

099431

CLIENT	Klein Colder				-	SGS Reference:	rence:	5.0			7	v
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SGS North America, Inc.

© 200 W. Potter Drive Anchorage, AK 99518 Tel: (907) 562-2343 Fax: (907) 561-5301 © 5500 Business Drive Wilmington, NC 28405 Tel: (910) 350-1903 Fax: (910) 350-1557

White - Retained by Lab Pink - Retained by Client

SGS North America, Inc.

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Alaska
New Jersey
North Carolina

ABSENT REMARKS Ы Samples Received Cold? (Circle) Chain of Custody Seal: (Circle) BROKEN ら □ STD PAGE Temperature C: INTACT Special Deliverable Requirements: Requested Turnaround Time: Special Instructions: Shipping Ticket No: Shipping Carrier: RUSH 6118-597 (2) SGS Reference: ű Ş GRAB GRAB OOZHK-ZUKO MATRIX P.O. NUMBER: W.35 34 865.2.3 50/1 FELLER Received By: Received By: Received By: Received By 1434 TIME 16:25 1735 1810 DATE Time Time FAPETTE SITEPWSID# PHONE NO:(I FIG FAX NO.:(QUOTE #: Date Date SAMPLE IDENTIFICATION HA-2 CONTACT. POSTA POTED Kierkeldz Collected/Rellynquisped By:(1) PROJECT: NCDOT 4 Relinquished By: (3) Relinquished By: (4) thed By: REPORTS TO: INVOICE TO: CLIENT

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LABNO