



October 31, 2007

Project No.: 7007-0001
Via E-Mail

Mr. Todd W. Brindle
Superintendent
United States Department of the Interior
National Park Service
Big Thicket National Preserve
6044 FM 420
Kountze, Texas 77625

Re: ***Summary of Findings
Soil and Groundwater Investigation, Pit Bottom Sampling Activities
Rafferty Fee Lease – Well No. 1 (#19053)
Silsbee North (Yegua 2) Field
NPS Site 181
Big Thicket National Preserve
Hardin County, Texas***

Dear Mr. Brindle:

SKA Consulting, L.P. (SKA) is pleased to submit our summary of findings related to the Soil and Groundwater Investigation and Pit Bottom Sampling Activities recently completed at the Rafferty Fee Lease – Well No. 1 site (Site) located in the Big Thicket National Preserve, Hardin County, Texas (**Figure 1**). The results of this investigation are discussed in the following sections.

BACKGROUND

The Site is located north of Beaumont, Texas near the end of Youngblood Road (formerly called Zig Zag Road by others) which is an unimproved road traversing through the Jack Gore Baygall Unit of the Big Thicket National Preserve (BITH) (**Figure 1**). The Site consists of a former oil well site formerly operated by Buford Curtis, Inc. The former well bore located on the Site was reportedly plugged and abandoned in accordance with Railroad Commission of Texas (RRC) rules and regulations on December 2, 2002. No remnants of historical oil/gas exploration and production (E&P) equipment are located on the Site. Currently, the Site consists of a former well pad and pit and is generally overgrown with native vegetation.

In August 2005, Michael Baker, Jr., Inc. (Baker) conducted a Focused Site Investigation (FSI) at the Site (ref: "Report for the Focused Site Investigation, Oil and Gas Sites, Big Thicket National Preserve, Beaumont, Texas; dated April 2006 and edited by Haigler "Dusty" Pate, Oil and Gas Program Manager, Big Thicket National Preserve") in an effort to "provide recommendations for the restoration of the site to natural conditions to the extent practical." Baker proposed to "approximately delineate the horizontal and vertical extent of soil contamination" and identify any possible contamination migration pathways and/or receptors. Additionally, at the request of the Water Resources Division (WDR) of the National Park Service (NPS), Baker proposed to assess possible impacts to surface water and groundwater at the Site.

To accomplish these objectives, Baker advanced a total of eight soil borings (SB01, SB02, SB03, SB04, SB05, TW01, TW02, and TW03) at the Site. Three of these soil borings (TW01,

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TW02, and TW03) were converted into temporary groundwater monitoring wells. Additionally, Baker collected three surface soil samples (SS01, SS02, and SS03) from the Site and collected one surface water sample from the pit located at the Site. A sampling location map that includes the locations of Baker's sample locations is included as **Figure 2**.

Based on the results of their field investigations, Baker concluded the following:

- Crude oil impacted approximately 100-cubic-yards of soil located near the well bore and south of the former well pad; however, additional delineation activities were warranted on this area of the Site.
- Polycyclic aromatic hydrocarbons (PAHs) are not chemicals of concern at the Site;
- There is no naturally occurring radioactive material (NORM) located at the Site;
- Groundwater exhibited low levels of benzene only;
- The surface water in the pit is uncontaminated;
- Contamination migration pathways include soil-to-groundwater, groundwater migration, and human/ecological uptake; and
- Impacts to receptors appear limited to flora and fauna exposure to surface soil. Human contact to surface soil is possible, but limited due to the use and location of the Site.

On December 19, 2006, the RRC submitted a Notice Of Violation letter to Buford Curtis, Inc. citing the following:

- Violation of Statewide Rule 8: "An inspection by our field inspector indicated that a pit measuring approximately 20 feet in diameter has not been closed. The pit should be closed and the area cleaned-up/remediated to facilitate natural attenuation."
- "The surface owner has furnished analytical identifying an area south of the former well bore that has a TPH [total petroleum hydrocarbon] reading higher than the state required limit of 10,000 ppm. This area should be cleaned-up/remediated to facilitate natural attenuation."

Based on these findings and conclusions, the NPS requested that Buford Curtis, Inc. conduct additional site investigations and/or remedial actions at the Site. As such, Buford Curtis, Inc. contacted SKA in April 2007 and requested SKA to prepare and submit a work plan to address the concerns of the NPS. Therefore SKA prepared a work plan (ref: SKA proposal No. M2007P066; dated April 20, 2007) and a response letter (ref: SKA Project No. 7007-0001L01; dated July 12, 2007) to address the concerns of the NPS.

On August 16, 2007, the NPS approved SKA's Work Plan and response letter (ref: "Work Plan for Site Characterization of Soil and Groundwater Investigation at the Buford Curtis, Inc. Rafferty Fee #1 Operations") and granted Buford Curtis, Inc. a 60-day temporary access permit to conduct soil and groundwater investigations and pit bottom sampling activities at the Site. As a result, SKA performed soil and groundwater investigations and pit bottom sampling activities at

the Site on August 28, 2007. The findings and conclusions of this work are detailed in the following sections.

SCOPE OF WORK

The Scope of Work associated with SKA's soil and groundwater investigation and pit bottom sampling activities was designed to assess the environmental condition of the Site based on previous environmental studies conducted by Baker and historical oil and/or gas exploration and production (E&P) activities conducted at the Site.

The objective of the soil and groundwater investigation and pit bottom sampling activities was to: (1) Confirm or deny if shallow groundwater beneath the Site is adversely impacted in one previously identified area of concern; (2) Define the horizontal and vertical extent of previously reported soil impacts in areas where concentrations of "crude oil" in soil exceed 10,000 part per million (ppm) (as per Baker); and (3) Obtain soil samples from the bottom of the pit located at the Site to determine if the soil has been adversely impacted.

The sampling and data evaluation plan was developed based on RRC guidance outlined within Title 16 Chapter 3 Oil and Gas Division, Statewide Rules 8, 20, and 91 (16 TAC §3.8, §3.20, §3.91), including the Field Guide for the Assessment and Cleanup of Soil and Groundwater Contaminated with Condensate from a Spill Incident, and Guideline for Spills, Releases, and Risk Based Decision Making for Oil Field Related Sites in Texas, Table 1-2 Chemicals of Concern. All activities and work products associated with this Scope of Work were conducted and produced under the direct supervision and direction of a State of Texas registered Professional Geoscientist.

On August 28, 2007, SKA completed 10 shallow soil borings (SB-1 through SB-10) to assess the "approximate extent of soil impacts" (as determined by Baker). Additionally, SKA installed one temporary groundwater monitoring well (TMW-1) in the immediate vicinity of Baker's temporary monitoring well (TW03) to confirm or deny if groundwater beneath the Site had been adversely affected as previously determined by Baker. Furthermore, SKA collected two soil samples from the uppermost 6 inches of soil from the bottom of the pit (pit bottom samples Pit 1 and Pit 2) in an effort to determine if soil from the bottom of the pit has been adversely impacted. The locations of the soil borings, temporary groundwater monitoring well, and pit bottom samples are shown on **Figure 2**. Photographs taken by SKA's on-site representatives during the investigation activities are included as **Attachment 1**.

The temporary groundwater monitoring well installation activities were performed by Alpine Field Services, Inc. (Alpine) of Houston, Texas, a State of Texas-licensed well driller, subcontracted to SKA. SKA personnel performed all shallow soil sampling activities and collected all pit bottom samples. Mr. Scott B. Leffler, P.G., Project Geologist with SKA, performed all field oversight and sampling activities.

Field Activities

Given the fact that the former well bore was properly plugged and abandoned in 2002, the well casing was located beneath the ground surface. Therefore, SKA utilized a Schonstedt model GA-52Cx magnetic locator to locate the well casing. Based on the field map prepared by Baker which depicted the former well on the southeastern portion of the Site, and a previous site visit with Mr. Buford Curtis in which Mr. Curtis identified the approximate location of the former well on the southeastern portion of the Site, SKA surveyed the southeastern portion of the Site with the Schonstedt magnetic locator.

The results of the Schonstedt magnetic locator activities revealed the presence of a significant ferrous anomaly beneath the ground surface on the southeastern portion on-site. Based on the results of the Schonstedt magnetic locator activities, Baker's field map, and on-site conversations with Mr. Curtis, SKA concluded that the ferrous anomaly detected during the Schonstedt magnetic locator activities was likely the well casing. As a result, this area was marked with three 2-foot-long wooden stakes and surveyor's tape and field marked as the assumed well casing. Once the location of the well casing was established, this location was used as a benchmark to determine the location of the "approximate extent of soil impacts" previously determined by Baker.

Utilizing the assumed well casing location and field map prepared by Baker, the "approximate extent of soil impacts" was marked in the field with pin flags and the locations of the proposed shallow soil boring and temporary monitoring well locations were field marked (as per SKA Proposal No. M2007P066, dated April 20, 2007) with 2-foot-long wooden stakes and surveyor's tape. Prior to collecting any soil and/or groundwater samples, the area surrounding the marked sample locations was checked for nearby topographic lows or surface depressions and none were observed. All sample locations were verified and approved by Haigler "Dusty" Pate with the NPS prior to collecting samples. A sampling location map is included as **Figure 2**.

Shallow Soil Borings

All of the shallow soil borings were completed to a total depth of 3 feet below ground surface (ft-bgs) by SKA personnel utilizing a stainless-steel hand auger. The soil samples were classified utilizing the Unified Soils Classification System (USCS) by SKA's on-site Geologist. To aid in the selection of soil samples ultimately submitted for laboratory analysis, field screening was conducted for organic vapor concentrations using a photo-ionization detector (PID) equipped with a 10.6-electron Volt (eV) bulb calibrated to 100 ppm isobutylene.

The following selection criteria were used to determine which soil samples were submitted for laboratory analysis:

- A soil sample collected from the 0-1 ft-bgs interval; and/or
- A soil sample collected from the interval with the highest PID reading; and/or
- A soil sample collected from the total depth of the soil boring.

Soil borings SB-1 and SB-3 through SB-10 did not exhibit significant PID readings above background concentrations. Therefore, only soil samples from the 0-1 ft-bgs were submitted to the testing laboratory for analysis. Soil samples collected from the 2-3 ft-bgs interval were also submitted to the testing laboratory; however, these soil samples were placed on a "hold" status pending the analytical testing results.

Soil samples collected from soil boring SB-2 exhibited PID readings above background concentrations; therefore, soil samples collected from the 0-1 ft-bgs, 1-2 ft-bgs, and 2-3 ft-bgs interval were submitted to the testing laboratory for analysis. A total of 21 shallow soil samples were collected from the 10 shallow soil borings. Soil descriptions and PID field screening results are included on the Soil Boring Logs as **Attachment 2**.

Pit Bottom Samples

Two shallow soil samples were collected from the uppermost six inches of soil/sediment from the bottom of the pit with the stainless steel hand auger and submitted to the testing laboratory for analysis. One of the samples was taken from the southwestern corner of the pit (Pit 1), and

the second was taken from the northeastern corner of the pit (Pit 2). Both of the pit bottom samples exhibited PID readings in excess of background concentrations.

Temporary Monitoring Well

Temporary monitoring well TMW-1 was installed utilizing a tractor-mounted drill rig equipped with hollow-stem augers and 4-foot long macro-core samplers. The soil samples were classified utilizing the USCS by SKA's on-site Geologist. To aid in the selection of soil samples ultimately submitted for laboratory analysis, field screening was conducted for organic vapor concentrations using a PID equipped with a 10.6-eV bulb calibrated to 100 ppm isobutylene.

Temporary monitoring well TMW-1 was constructed of 2-inch inner-diameter (ID), Schedule 40 PVC pipe, consisting of 5 feet of 0.010-inch factory-slotted PVC screen and 8 feet of blank riser pipe, with 1.84 feet of the blank riser exposed above the surface. The borehole annulus around the screened section was then filled with 20/40-grade silica sand to approximately 4 ft-bgs and bentonite chips were placed from 4 ft-bgs to the surface.

After each soil sample was visually logged by SKA's on-site representative, it was divided into two representative portions. One portion was placed into a laboratory-supplied glass jar, labeled, and temporarily stored on ice for preservation. The other portion was placed into a plastic bag, sealed, and placed in direct sunlight for approximately 30 minutes to enhance the volatilization of environmentally sensitive constituents possibly present in the soil. The probe of the PID was inserted into the bag containing each soil sample placed in the sunlight, and the reading from the PID was recorded on the soil boring log. Soil descriptions and PID field screening results are included on the Soil Boring Logs as **Attachment 2**.

The temporary monitoring well was advanced to 11 ft-bgs, approximately 6 feet below the contact with the uppermost transmissive zone (shallow groundwater) in an effort to obtain a representative groundwater sample. The shallow geology in the vicinity of TMW-1 consists of silty, clayey sand to approximately 4.5 ft-bgs; silty, sandy clay to approximately 5.25 ft-bgs; and saturated, well graded sand to approximately 11 ft-bgs. The static depth to groundwater measured after the well was constructed and allowed to stabilize was 6.8 ft-bgs.

The following selection criteria were used to determine which soil samples were submitted for laboratory analysis:

- A soil sample collected from the 0-1 ft-bgs interval; and/or
- A soil sample collected from the interval with the highest PID reading; and/or
- A soil sample collected from the soil/groundwater interface.

Based on the absence of significant PID field screening results above background concentrations, only the soil samples collected from the 0-1 ft-bgs interval and soil/groundwater interface (4-5 ft-bgs) were submitted to the analytical testing laboratory for analysis.

Equipment decontamination was continuously performed during all sampling and drilling activities in accordance with applicable Texas Commission on Environmental Quality (TCEQ), United States Environmental Protection Agency (USEPA), and Occupational Safety & Health Administration (OSHA) guidelines. All sampling equipment was washed with Alconox soap and rinsed with potable water prior to the collection of each new soil sample.

Groundwater Sampling

Once installed, TMW-1 was checked by SKA's on-site personnel for depth to water and Phase Separated Hydrocarbons (PSH) with an electronic oil/water interface meter. No PSH was noted in TMW-1. The temporary monitoring well was initially developed with a downhole pump to remove the fine particles from the well screen, filter pack, and surrounding formation. A total of approximately 5 well volumes of groundwater was initially removed from TMW-1 during development on August 28, 2007. Once the temporary monitoring well had been properly developed, it was allowed to recharge and/or equilibrate to near static conditions prior to collecting a groundwater sample.

On August 28, 2007, SKA collected a groundwater sample utilizing EPA-approved Low Flow sampling techniques. During low flow groundwater purging, the groundwater from the temporary monitoring well was continuously monitored in the field for pH, turbidity, specific conductivity, dissolved oxygen, temperature, and oxidation/reduction potential (ORP) with a portable water quality meter equipped with an in-line flow-through cell. Additionally, the depth to water and flow (pumping) rate was also monitored. The data collected during low flow sampling activities was recorded by SKA's on-site personnel on a Groundwater Sampling Log. Once a minimum of one well volume was removed and at least three parameters were stable (within their respective variances) for three consecutive measurements, the groundwater sample was collected from TMW-1 and placed into a laboratory-supplied container, labeled, and stored in an ice-filled chest for preservation and delivery to the testing laboratory. The Groundwater Sampling Log is included as **Attachment 3**.

Soil and Groundwater Disposal

All soil cuttings and groundwater generated during the soil boring/temporary groundwater monitoring well installation activities were placed into one properly labeled 55-gallon drum and temporarily stored on-site pending the results of analytical testing.

SUMMARY OF ANALYTICAL TESTING

The following sections describe the results of analytical testing performed on soil and groundwater samples collected from the soil borings, the pit, and the temporary groundwater monitoring well during the investigation.

All soil, pit bottom, and groundwater samples were analyzed in the testing laboratory for benzene, toluene, ethylbenzene and total xylenes (BTEX) by EPA Method 8021B and total petroleum hydrocarbons (TPH) by Method TX1005. A summary of the soil analytical testing results is included as **Table 1**. A summary of the groundwater analytical testing results is included as **Table 2**.

All laboratory analyses were performed by e-Lab Analytical, Inc. of Houston, Texas, which is a National Environmental Laboratory Accreditation Conference (NELAC) certified laboratory and is inspected by the TCEQ. All analyses were performed in accordance with EPA-approved methods referenced in Title 40 of the Code of Federal Regulations (40 CFR) and "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods" (EPA SW-846). The analytical methods for all of the analyses performed were based on achieving laboratory reporting limits that are at or below the RRC Soil-to-Groundwater Protection Limits for Delineation and Remediation and the RRC Impacted Groundwater Delineation and Remediation Limits. Certificates of analysis and chain of custody documentation are included as **Attachment 4**.

Soil Analytical Results

The following sections describe the results of analytical testing performed on soil samples collected from the soil borings, the pit bottom, and the temporary groundwater monitoring well during the investigation. All soil sample concentrations are reported in milligrams per kilogram (mg/Kg). A summary of the soil analytical results is presented in **Table 1**.

Shallow Soil Borings

BTEX:

Analytical testing results did not indicate any concentrations of benzene above the laboratory sample detection limit (SDL). Analytical testing results did indicate detectable concentrations of toluene, ethylbenzene, and total xylenes above their respective laboratory SDLs; however, none of these reported concentrations exceeded their RRC regulatory standards of 8.2 mg/Kg, 7.6 mg/Kg, and 120 mg/Kg, respectively.

TPH:

Analytical testing results indicated detectable concentrations of TPH above the laboratory SDL; however, none of the total TPH concentrations exceeded the RRC regulatory standard of 10,000 mg/Kg.

Pit Bottom Samples

BTEX:

Analytical testing results did not indicate any concentrations of benzene above the laboratory SDL. Analytical testing results did indicate detectable concentrations of toluene, ethylbenzene, and total xylenes above their respective laboratory SDLs; however, none of these reported concentrations exceeded their RRC regulatory standards of 8.2 mg/Kg, 7.6 mg/Kg, and 120 mg/Kg, respectively.

TPH:

Analytical testing results indicated detectable concentrations of TPH above the laboratory SDL in both pit bottom samples (Pit 1 and Pit 2); however, only soil sample Pit 2 exhibited an elevated TPH concentration of 12,900 mg/kg which exceeds the RRC regulatory standard of 10,000 mg/Kg.

Temporary Monitoring Well

BTEX:

Analytical testing results did not indicate any detectable BTEX concentrations above their respective laboratory SDLs.

TPH:

Analytical testing results did not indicate any detectable TPH concentrations above the laboratory SDL.

Groundwater Analytical Results

The following sections describe the results of analytical testing performed on the groundwater sample collected from temporary monitor well TMW-1. All concentrations are reported in milligrams per liter (mg/L). A summary of the groundwater analytical results is presented in **Table 2**.

BTEX and TPH

Analytical testing results did not indicate any detectable BTEX or TPH concentrations above their respective laboratory SDLs.

SUMMARY AND CONCLUSIONS

Based on the results of the soil and groundwater investigation and pit bottom sampling activities performed by SKA, the following findings and conclusions are made regarding the current environmental conditions for the Rafferty Fee Lease – Well No. 1 site located at the Silsbee North (Yegua 2) Field, NPS Site 181, Big Thicket National Preserve, Hardin County, Texas:

- Based on the results of Baker's initial field investigations, Baker concluded that "crude oil" impacted approximately 100-cubic yards of soil in an area noted as "approximate extent of soil impacts." However, SKA collected a total of 14 soil samples from within and immediately adjacent to this area. None of the soil samples collected by SKA exhibited concentrations of regulated substances above their applicable RRC regulatory standards.
- Based on the results of Baker's initial field investigations, Baker concluded that the groundwater at the Site exhibited low levels of benzene only. However, SKA installed temporary monitoring well TMW-1 in the immediate vicinity of Baker's temporary monitoring well (TW03). The groundwater sample collected from temporary monitoring TMW-1 well did not exhibit a detectable concentration of benzene. Furthermore, the groundwater sample collected from temporary monitoring well TMW-1 did not exhibit any concentrations of regulated substances above their applicable RRC standards.
- Soil samples collected from the bottom of the pit exhibited detectable concentrations of TPH and BTEX above their respective laboratory SDLs; however, only pit bottom sample Pit 2 exhibited a TPH concentration of 12,900 mg/Kg which exceeds the RRC regulatory standard of 10,000 mg/Kg. The detectable BTEX constituents did not exceed their respective RRC standards.

Based on the results of our recent soil and groundwater sampling activities, the soil and groundwater located within and immediately adjacent to the "approximate extent of soil impacts" (as determined by Baker) do not exhibit concentrations of regulated substance above RRC regulatory standards. As a result, no additional investigations and/or remedial actions are warranted on this portion of the Site.

Only one soil sample collected from the pit bottom (Pit 2) exhibited a TPH concentration of 12,900 mg/Kg, which exceeds the RRC regulatory standard of 10,000 mg/Kg. As a result, remedial actions (i.e., soil excavation, removal, and disposal) appear warranted on this portion of the Site.

Currently, SKA is preparing a Plan of Operations (as per 36 CFR §9.6) for the NPS's review and ultimate approval. The purpose of the Plan of Operations will be to "close" the pit as per RRC rules and regulations and restore the Site to natural conditions. SKA understands that an approved Plan of Operations serves as an access permit that will allow SKA and its subcontractors access to the Site in order to execute the Plan of Operations.

Once the Plan of Operations has been executed, SKA will submit a final letter report to the NPS and the RRC documenting that there are no outstanding concerns at the Site. Additionally, SKA will request that the NPS and the RRC issue a No Further Action (NFA) letter to Curtis Buford,

Inc. that states that Curtis Buford, Inc. is not required to perform additional reclamation activities at the Site.

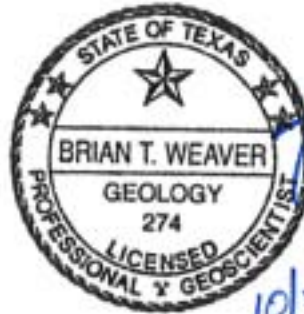
CLOSING REMARKS

SKA looks forward to working with you in completing this project. Should you have any questions regarding this transmittal, please do not hesitate to call either of us at (713) 266-6056.

Sincerely,

SKA CONSULTING, L.P.


Adam Taylor
Project Manager




Brian T. Weaver, P.G.
Senior Project Manager

10/31/2007

Cc: Mr. Buford Curtis; Buford Curtis, Inc. (w/attachments)
David J. Fisher; Orgain, Bell, & Tucker, LLP (w/attachments)
Haigler "Dusty" Pate; National Park Service (w/attachments)
Guy Grossman; District 3 RRC of Texas (w/attachments)
Ron Smelley; District 3 RRC of Texas (w/attachments)

Figures

Figure 1 - Site Vicinity and Topographic Map
Figure 2 - Soil Sample Location Map

Tables

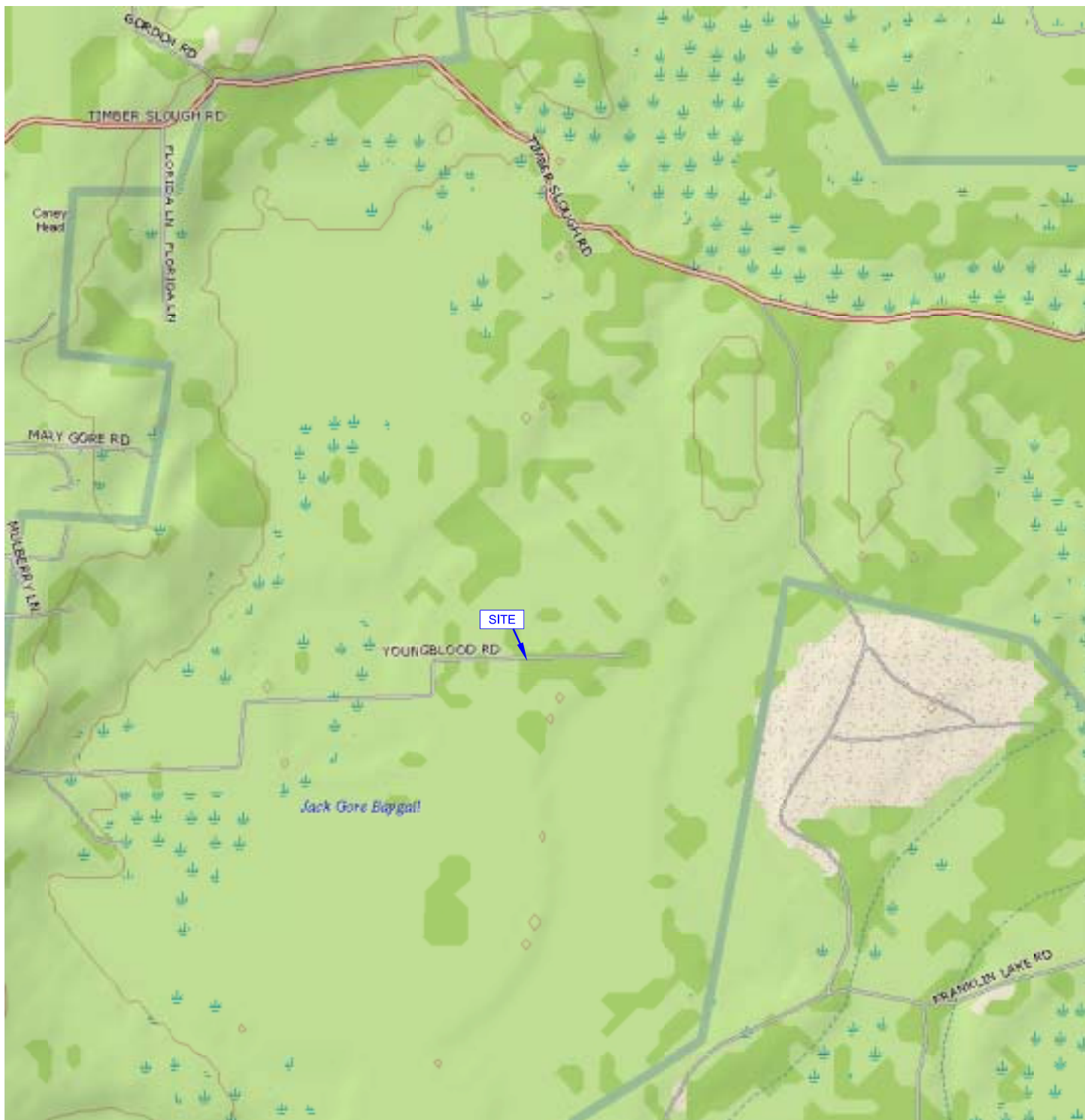
Table 1 - Summary of Soil Analytical Testing Results
Table 2 - Summary of Groundwater Analytical Testing Results

Attachments

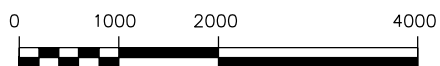
Attachment 1 - Photographs
Attachment 2 - Soil Boring Logs
Attachment 3 - Certificates of Analysis and Chain of Custody Documentation

FIGURES

FIGURE 1
SITE VICINITY AND TOPOGRAPHIC MAP



REFERENCE USGS 7.5-MINUTE TOPOGRAPHIC QUADRANGLE
DESERTER BAYGALL, TEXAS 1984



APPROXIMATE SCALE: 1"=2000'



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SITE VICINITY AND TOPOGRAPHIC MAP

RAFFERTY FEE LEASE - WELL NO. 1 (#19053)
SILSBEE NORTH (YEGUA 2) FIELD
NPS SITE 181
BIG THICKET NATIONAL PRESERVE
HARDIN COUNTY, TEXAS

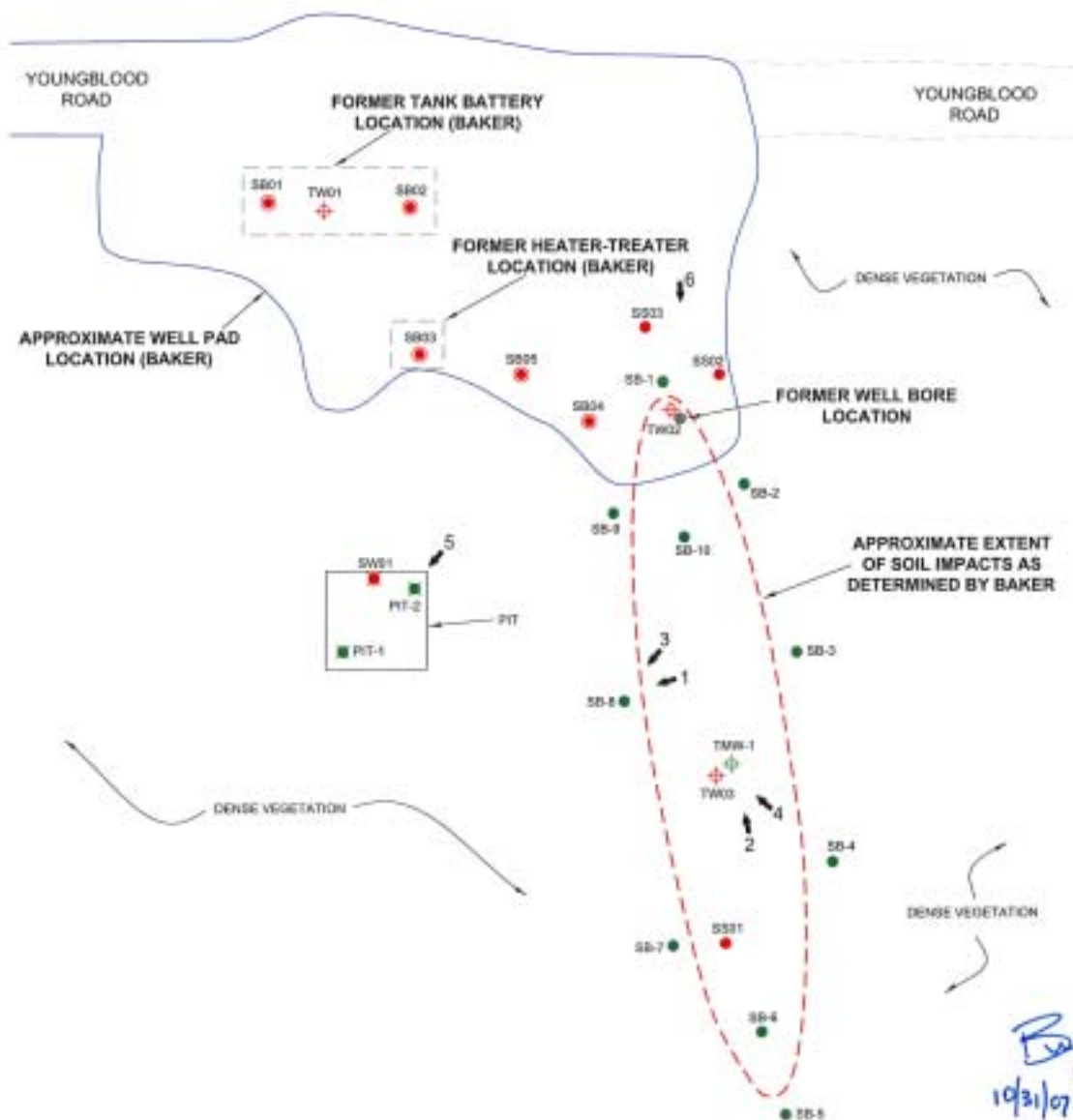
DATE:	OCTOBER 2007	JOB NO:	7007-0001	SCALE:	AS SHOWN
1	FIRST REVISION	04-19-07	DRAWN BY:	NRL	
2	SECOND REVISION	-	CHECKED BY:	AET	
3	THIRD REVISION	-	APPROVED BY:	AET	

FIGURE

1



FIGURE 2
SAMPLING LOCATION MAP



LEGEND

- SB01 SOIL BORING LOCATION (BAKER - AUGUST 2006)
- SB01 SURFACE SOIL SAMPLE LOCATION (BAKER - AUGUST 2006)
- TW01 TEMPORARY MONITORING WELL LOCATION (BAKER - AUGUST 2006)
- SW01 SURFACE WATER SAMPLE LOCATION (BAKER - AUGUST 2006)
- SB-1 SOIL BORING LOCATION (SKA - SEPTEMBER 2007)
- TMW-1 TEMPORARY MONITORING WELL LOCATION (SKA - SEPTEMBER 2007)
- PIT-1 PIT BOTTOM SAMPLE (SKA - SEPTEMBER 2007)
- 1 PHOTOGRAPHIC LOCATION AND DIRECTION



SKA CONSULTING, L.P.
10200 WESTHEIMER, SUITE 605
HOUSTON, TEXAS 77042

SAMPLING LOCATION MAP

RAFFERTY FEE LEASE - WELL NO. 1 (#19053)
SUSSEE NORTH (YEGUA 2) FIELD
NPS SITE 181
BIG THICKET NATIONAL PRESERVE
HARDIN COUNTY, TEXAS

DATE	OCTOBER 2007	REV	7527-0001	SCALE	AS SHOWN
1. FIRST REVISION	10/10/07	DESCRIPTION	ADD		
2. SECOND REVISION	-	DESCRIPTION	ADD		
3. THIRD REVISION	-	DESCRIPTION	ADD		

FIGURE
2



Briar T. Weaver
10/31/07

TABLES

TABLE 1

SUMMARY OF SOIL ANALYTICAL TESTING RESULTS

TABLE 1
SUMMARY OF SOIL ANALYTICAL TESTING RESULTS
RAFFERTY FEE LEASE - WELL NO. 1 (#19053)
SILSBEE NORTH (YEGUA 2) FIELD
NPS SITE 181
BIG THICKET NATIONAL PRESERVE
HARDIN COUNTY, TEXAS

Sample Name	Sample Depth (ft-bgs)	Sample Date	BTEX				TPH			
			Benzene	Toluene	Ethylbenzene	Xylenes	C ₆ -C ₁₂	C ₁₂ -C ₂₈	C ₂₈ -C ₃₅	Total TPH (C ₆ -C ₃₅)
			Method 8021B mg/Kg	Method 8021B mg/Kg	Method 8021B mg/Kg	Method 8021B mg/Kg	Method TX1005 mg/Kg	Method TX1005 mg/Kg	Method TX1005 mg/Kg	Method TX1005 mg/Kg
Soil Borings										
SB-1	0-1	8/28/2007	<0.00033	0.00044 J	<0.00033	<0.0011	<17	<17	<17	<17
	0-1	8/28/2007	<0.00034	0.0019	0.021	0.12	260	2,300	300	2,860
SB-2	1-2	8/28/2007	<0.00034	0.00077 J	<0.00034	0.012	<18	26 J	<18	26.0 J
	2-3	8/28/2007	<0.00037	<0.00037	<0.00037	0.013	<20	<20	<20	<20
SB-3	0-1	8/28/2007	<0.00034	0.00036 J	<0.00034	0.0027 J	<18	140	40 J	180
SB-4	0-1	8/28/2007	<0.00037	0.00062 J	<0.00037	0.0051	<19	380	210	590
SB-5	0-1	8/28/2007	<0.00033	<0.00033	<0.00033	<0.0011	<18	<18	<18	<18
SB-6	0-1	8/28/2007	<0.00034	<0.00034	<0.00034	<0.0011	<18	<18	<18	<18
SB-7	0-1	8/28/2007	<0.00036	<0.00036	<0.00036	<0.0012	<19	100	72	172
SB-8	0-1	8/28/2007	<0.00031	0.0010	<0.00031	<0.0010	<16	<16	<16	<16
SB-9	0-1	8/28/2007	<0.00034	<0.00034	<0.00034	<0.0011	<18	<18	<18	<18
SB-10	0-1	8/28/2007	<0.00035	0.00049 J	<0.00035	<0.0012	<18	<18	<18	<18
Samples Collected from the Bottom of the Pit										
PIT 1	0-1	8/28/2007	0.0094	0.098	0.049	11	<210	4,200	670	4,870
PIT 2	0-1	8/28/2007	<0.00039	0.095	3.4	0.13	240 J	9,900	2,800	12,900
Temporary Monitoring Well										
TMW-1	0-1	8/28/2007	<0.00038	<0.00038	<0.00038	<0.0013	<20	<20	<20	<20
	4-5	8/28/2007	<0.00037	<0.00037	<0.00037	<0.0012	<19	<19	<19	<19
Regulatory Standards										
Railroad Commission of Texas Soil-to-Groundwater Protection Limits for Delineation and Remediation			0.026	8.2	7.6	120	-	-	-	10,000

Notes:

"<0.00033" indicates the sample result is less than the laboratory's Sample Detection Limit (SDL).

Concentrations bolded represent those detected at or above the laboratory's SDL.

Concentrations in bold and highlighted exhibit a concentration at or above the regulatory standards.

"mg/Kg" indicates milligrams per kilogram.

"J" Laboratory qualifier indicates that the analyte is an estimated value between the SDL and the Method Quantitation Limit (MQL).

"TPH" represents total petroleum hydrocarbons.

"-" indicates that no regulatory standard has been established.

Regulatory standards were obtained from Table 2 of the Railroad Commission of Texas' *Field Guide for the Assessment and Cleanup of Soil and Groundwater*

Contaminated with Condensate From a Spill Incident (Title 16, Chapter 3, Oil and Gas Division, Statewide Rules 8, 20, and 91)

TABLE 2
SUMMARY OF GROUNDWATER ANALYTICAL TESTING RESULTS

TABLE 2
SUMMARY OF GROUNDWATER ANALYTICAL TESTING RESULTS
RAFFERTY FEE LEASE - WELL NO. 1 (#19053)
SILSBEE NORTH (YEGUA 2) FIELD
NPS SITE 181
BIG THICKET NATIONAL PRESERVE
HARDIN COUNTY, TEXAS

		BTEX				TPH			
Sample Name	Sample Date	Benzene	Toluene	Ethylbenzene	Xylenes	C ₆ -C ₁₂	C ₁₂ -C ₂₈	C ₂₈ -C ₃₅	Total TPH (C ₆ -C ₃₅)
		Method 8021B mg/L	Method 8021B mg/L	Method 8021B mg/L	Method 8021B mg/L	Method TX1005 mg/L	Method TX1005 mg/L	Method TX1005 mg/L	Method TX1005 mg/L
Temporary Monitoring Well									
TMW-1	8/28/2007	<0.00020	<0.00020	<0.00020	<0.00050	<0.20	<0.20	<0.20	<0.20
Regulatory Standards									
Railroad Commission of Texas Impacted Groundwater Delineation and Remediation Limits		0.005	1.0	0.7	10.0	-	-	-	1.1

Notes:

"<0.00020" indicates the sample result is less than the laboratory's Sample Detection Limit (SDL).

Concentrations bolded represent those detected at or above the laboratory's SDL.

Concentrations in bold and highlighted exhibit a concentration at or above the regulatory standards.

"mg/L" indicates milligrams per liter.

"TPH" represents total petroleum hydrocarbons.

"-" indicates that no regulatory standard has been established.

Regulatory standards were obtained from Table 3 of the Railroad Commission of Texas' *Field Guide for the Assessment and Cleanup of Soil and Groundwater Contaminated with Condensate From a Spill Incident* (Title 16, Chapter 3, Oil and Gas Division, Statewide Rules 8, 20, and 91)

ATTACHMENTS

ATTACHMENT 1
PHOTOGRAPHS



Photo No. 1: View to the southwest of the installation of soil boring SB-8.



Photo No. 2: View to the north of the installation of temporary monitoring well TMW-1.



Photo No. 3: Properly plugging soil boring SB-8 with bentonite chips.



Photo No. 4: View of the completion of temporary monitoring well TMW-1.



Photo No. 5: View to the southwest of collecting pit bottom sample Pit 1.



Photo No. 6: View to the south of the “approximate extent of soil impacts” as determined by Baker.

ATTACHMENT 2
SOIL BORING LOGS



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SOIL BORING SB-1

PAGE 1 OF 1

PROFESSIONAL SEAL



PROJECT NO./NAME

7007-0001 / Rafferty Fee Lease - Well No. 1 (#19053)

PROJECT LOCATION

Big Thicket National Preserve, Hardin County, TX

DRILLING COMPANY

SKA Consulting

DRILLING METHOD

Hand Auger

LOGGED BY

Scott Leffler

SAMPLING METHOD

Hand Auger

DATE STARTED

8/28/2007

DATE COMPLETED

8/28/2007

BOREHOLE DIAMETER

3"

CASING TYPE / DIAMETER

/

SCREEN TYPE / SLOT SIZE

/

GRAVEL PACK TYPE

GROUT TYPE

GROUND ELEVATION

DEPTH TO WATER DURING DRILLING ∇

NA ft.

STATIC DEPTH TO GROUNDWATER ∇

NA ft.

TOP OF CASING ELEVATION

REMARKS: This log should not be used separately from the original report. Background PID reading equaled 25 ppm.

Depth (ft. bgs)	Sample	Recovery %	PID (ppm)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	Water Levels
	X		27.6	SM		(0' - 3') Sand with little silt, fine-grained, tan to lt. brown, loose, moist, no odor	
			27.3			(2.5') grades to little clay, lt. gray	
						Bottom of borehole at 3.0 feet.	



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SOIL BORING SB-2

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PROJECT NO./NAME 7007-0001 / Rafferty Fee Lease - Well No. 1 (#19053)		PROJECT LOCATION Big Thicket National Preserve, Hardin County, TX	
DRILLING COMPANY SKA Consulting	DRILLING METHOD Hand Auger	LOGGED BY Scott Leffler	
SAMPLING METHOD Hand Auger	DATE STARTED 8/28/2007	DATE COMPLETED 8/28/2007	
BOREHOLE DIAMETER 3"	CASING TYPE / DIAMETER /	SCREEN TYPE / SLOT SIZE /	
GRAVEL PACK TYPE	GROUT TYPE	GROUND ELEVATION ---	

DEPTH TO WATER DURING DRILLING ∇ NA ft.	STATIC DEPTH TO GROUNDWATER ∇ NA ft.	TOP OF CASING ELEVATION ---
---	--	--------------------------------

REMARKS: This log should not be used separately from the original report. Background PID reading equaled 25 ppm.

Depth (ft. bgs)	Sample	Recovery %	PID (ppm)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	Water Levels
			77.2			(0' - 3') Sand with some silt, fine-grained, dark brown, loose to medium dense, moist, slight hydrocarbon odor	
			32.0	SM			
			29.1			(2') grades to dark grey-brown, no hydrocarbon odor	
						Bottom of borehole at 3.0 feet.	



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SOIL BORING SB-3

PAGE 1 OF 1

PROFESSIONAL SEAL



PROJECT NO./NAME 7007-0001 / Rafferty Fee Lease - Well No. 1 (#19053)		PROJECT LOCATION Big Thicket National Preserve, Hardin County, TX	
DRILLING COMPANY SKA Consulting	DRILLING METHOD Hand Auger	LOGGED BY Scott Leffler	
SAMPLING METHOD Hand Auger	DATE STARTED 8/28/2007	DATE COMPLETED 8/28/2007	
BOREHOLE DIAMETER 3"	CASING TYPE / DIAMETER /	SCREEN TYPE / SLOT SIZE /	
GRAVEL PACK TYPE	GROUT TYPE	GROUND ELEVATION —	

DEPTH TO WATER DURING DRILLING ∇ NA ft.	STATIC DEPTH TO GROUNDWATER ∇ NA ft.	TOP OF CASING ELEVATION —
---	--	------------------------------

REMARKS: This log should not be used separately from the original report. Background PID reading equaled 25 ppm.

Depth (ft. bgs)	Sample	Recovery %	PID (ppm)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	Water Levels
	X		42.2	SM		(0' - 3') Sand with some silt, fine-grained, grey-brown, loose to medium dense, moist, no odor	
			31.4				
						Bottom of borehole at 3.0 feet.	



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SOIL BORING SB-4

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PROFESSIONAL SEAL



PROJECT NO./NAME 7007-0001 / Rafferty Fee Lease - Well No. 1 (#19053)		PROJECT LOCATION Big Thicket National Preserve, Hardin County, TX	
DRILLING COMPANY SKA Consulting	DRILLING METHOD Hand Auger	LOGGED BY Scott Leffler	
SAMPLING METHOD Hand Auger	DATE STARTED 8/28/2007	DATE COMPLETED 8/28/2007	
BOREHOLE DIAMETER 3"	CASING TYPE / DIAMETER /	SCREEN TYPE / SLOT SIZE /	
GRAVEL PACK TYPE	GROUT TYPE	GROUND ELEVATION —	

DEPTH TO WATER DURING DRILLING ∇ NA ft.	STATIC DEPTH TO GROUNDWATER ∇ NA ft.	TOP OF CASING ELEVATION —
---	--	------------------------------

REMARKS: This log should not be used separately from the original report. Background PID reading equaled 25 ppm.

Depth (ft. bgs)	Sample	Recovery %	PID (ppm)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	Water Levels
				SM		(0' - 0.5') Sand with few silt, fine-grained, reddish-brown, loose, moist, no odor	
			34.5	CL		(0.5' - 1.5') Clay with few fine-grained sand and silt, lt. grey, soft to medium stiff, low plasticity, moist, no odor	
				SM		(1.5' - 3') Sand with some silt, fine-grained, grey-brown, loose to medium dense, moist, no odor	
			34.5			Bottom of borehole at 3.0 feet.	



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SOIL BORING SB-5

PAGE 1 OF 1

PROFESSIONAL SEAL



PROJECT NO./NAME 7007-0001 / Rafferty Fee Lease - Well No. 1 (#19053)		PROJECT LOCATION Big Thicket National Preserve, Hardin County, TX	
DRILLING COMPANY SKA Consulting	DRILLING METHOD Hand Auger	LOGGED BY Scott Leffler	
SAMPLING METHOD Hand Auger	DATE STARTED 8/28/2007	DATE COMPLETED 8/28/2007	
BOREHOLE DIAMETER 3"	CASING TYPE / DIAMETER /	SCREEN TYPE / SLOT SIZE /	
GRAVEL PACK TYPE	GROUT TYPE	GROUND ELEVATION —	

DEPTH TO WATER DURING DRILLING ∇ NA ft.	STATIC DEPTH TO GROUNDWATER ∇ NA ft.	TOP OF CASING ELEVATION —
---	--	------------------------------

REMARKS: This log should not be used separately from the original report. Background PID reading equaled 25 ppm.

Depth (ft. bgs)	Sample	Recovery %	PID (ppm)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	Water Levels
	X		29.5	SM		(0' - 3') Sand with few silt, fine-grained, lt. brown, loose, moist, no odor	
			29.5			(1.5') grades to few silt and clay, lt. grey-brown, loose to medium dense	
						Bottom of borehole at 3.0 feet.	



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SOIL BORING SB-6

PAGE 1 OF 1

PROFESSIONAL SEAL



PROJECT NO./NAME 7007-0001 / Rafferty Fee Lease - Well No. 1 (#19053)		PROJECT LOCATION Big Thicket National Preserve, Hardin County, TX	
DRILLING COMPANY SKA Consulting	DRILLING METHOD Hand Auger	LOGGED BY Scott Leffler	
SAMPLING METHOD Hand Auger	DATE STARTED 8/28/2007	DATE COMPLETED 8/28/2007	
BOREHOLE DIAMETER 3"	CASING TYPE / DIAMETER /	SCREEN TYPE / SLOT SIZE /	
GRAVEL PACK TYPE	GROUT TYPE	GROUND ELEVATION —	

DEPTH TO WATER DURING DRILLING ∇ NA ft.	STATIC DEPTH TO GROUNDWATER ∇ NA ft.	TOP OF CASING ELEVATION —
---	--	------------------------------

REMARKS: This log should not be used separately from the original report. Background PID reading equaled 25 ppm.

Depth (ft. bgs)	Sample	Recovery %	PID (ppm)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	Water Levels
	X		30.0	SM		(0' - 3') Sand with few silt, fine-grained, lt. brown, loose, moist, no odor	
			35.0			(2") grades to few silt and clay, lt. grey-brown, loose to medium dense	
						Bottom of borehole at 3.0 feet.	



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SOIL BORING SB-7

PAGE 1 OF 1

PROFESSIONAL SEAL



PROJECT NO./NAME 7007-0001 / Rafferty Fee Lease - Well No. 1 (#19053)		PROJECT LOCATION Big Thicket National Preserve, Hardin County, TX	
DRILLING COMPANY SKA Consulting	DRILLING METHOD Hand Auger	LOGGED BY Scott Leffler	
SAMPLING METHOD Hand Auger	DATE STARTED 8/28/2007	DATE COMPLETED 8/28/2007	
BOREHOLE DIAMETER 3"	CASING TYPE / DIAMETER /	SCREEN TYPE / SLOT SIZE /	
GRAVEL PACK TYPE	GROUT TYPE	GROUND ELEVATION —	
DEPTH TO WATER DURING DRILLING ∇ NA ft.		STATIC DEPTH TO GROUNDWATER ∇ NA ft.	TOP OF CASING ELEVATION —

REMARKS: This log should not be used separately from the original report. Background PID reading equaled 25 ppm.

Depth (ft. bgs)	Sample	Recovery %	PID (ppm)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	Water Levels
				SM		(0' - 0.5') Sand with few silt, fine-grained, lt. brown, loose, moist, no odor, broken glass	
			30.9			(0.5' - 2.5') Clay with few fine-grained sand and silt, lt. grey, soft to medium stiff, low plasticity, moist, no odor	
				CL			
			31.4			(2.5' - 3') Sand with few silt and clay, fine-grained, lt. grey-brown, loose to medium dense, moist, no odor	
				SM			
						Bottom of borehole at 3.0 feet.	



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SOIL BORING SB-8

PAGE 1 OF 1

PROFESSIONAL SEAL



PROJECT NO./NAME 7007-0001 / Rafferty Fee Lease - Well No. 1 (#19053)		PROJECT LOCATION Big Thicket National Preserve, Hardin County, TX
DRILLING COMPANY SKA Consulting	DRILLING METHOD Hand Auger	LOGGED BY Scott Leffler
SAMPLING METHOD Hand Auger	DATE STARTED 8/28/2007	DATE COMPLETED 8/28/2007
BOREHOLE DIAMETER 3"	CASING TYPE / DIAMETER /	SCREEN TYPE / SLOT SIZE /
GRAVEL PACK TYPE	GROUT TYPE	GROUND ELEVATION ---

DEPTH TO WATER DURING DRILLING ∇ NA ft.	STATIC DEPTH TO GROUNDWATER ∇ NA ft.	TOP OF CASING ELEVATION ---
---	--	--------------------------------

REMARKS: This log should not be used separately from the original report. Background PID reading equaled 25 ppm.

Depth (ft. bgs)	Sample	Recovery %	PID (ppm)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	Water Levels
	X		30.9	SP		(0' - 3') Sand, fine-grained, poorly graded, reddish-brown, loose, slightly moist, no odor	
						(1') grades to few silt, moist	
			31.4	SM		(2.5') grades to few silt and clay, lt. grey-brown, loose to medium dense	
						Bottom of borehole at 3.0 feet.	



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SOIL BORING SB-9

PAGE 1 OF 1

PROFESSIONAL SEAL



PROJECT NO./NAME 7007-0001 / Rafferty Fee Lease - Well No. 1 (#19053)		PROJECT LOCATION Big Thicket National Preserve, Hardin County, TX	
DRILLING COMPANY SKA Consulting	DRILLING METHOD Hand Auger	LOGGED BY Scott Leffler	
SAMPLING METHOD Hand Auger	DATE STARTED 8/28/2007	DATE COMPLETED 8/28/2007	
BOREHOLE DIAMETER 3"	CASING TYPE / DIAMETER /	SCREEN TYPE / SLOT SIZE /	
GRAVEL PACK TYPE	GROUT TYPE	GROUND ELEVATION —	
DEPTH TO WATER DURING DRILLING ∇ NA ft.		STATIC DEPTH TO GROUNDWATER ∇ NA ft.	TOP OF CASING ELEVATION —

REMARKS: This log should not be used separately from the original report. Background PID reading equaled 25 ppm.

Depth (ft. bgs)	Sample	Recovery %	PID (ppm)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	Water Levels
	X		32.7	SM		(0' - 3') Sand with few silt, fine-grained, reddish-brown, loose to medium dense, moist, no odor	
			32.7			Bottom of borehole at 3.0 feet.	



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SOIL BORING SB-10

PAGE 1 OF 1

PROFESSIONAL SEAL



PROJECT NO./NAME 7007-0001 / Rafferty Fee Lease - Well No. 1 (#19053)		PROJECT LOCATION Big Thicket National Preserve, Hardin County, TX	
DRILLING COMPANY SKA Consulting	DRILLING METHOD Hand Auger	LOGGED BY Scott Leffler	
SAMPLING METHOD Hand Auger	DATE STARTED 8/28/2007	DATE COMPLETED 8/28/2007	
BOREHOLE DIAMETER 3"	CASING TYPE / DIAMETER /	SCREEN TYPE / SLOT SIZE /	
GRAVEL PACK TYPE	GROUT TYPE	GROUND ELEVATION —	

DEPTH TO WATER DURING DRILLING ∇ NA ft.	STATIC DEPTH TO GROUNDWATER ∇ NA ft.	TOP OF CASING ELEVATION —
---	--	------------------------------

REMARKS: This log should not be used separately from the original report. Background PID reading equaled 25 ppm.

Depth (ft. bgs)	Sample	Recovery %	PID (ppm)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	Water Levels
				SM		(0' - 0.5') Sand with little silt, fine-grained, lt. brown, loose, moist, no odor	
			32.7	CL		(0.5' - 1.5') Clay with little fine-grained sand and few silt, lt. grey, soft to medium stiff, low plasticity, moist, no odor	
				SM		(1.5' - 3') Sand with few silt, fine-grained, lt. grey-brown, loose to medium dense, moist, no odor	
			32.3			Bottom of borehole at 3.0 feet.	



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TEMPORARY MONITORING WELL TMW-1

PAGE 1 OF 1

PROFESSIONAL SEAL



PROJECT NO./NAME 7007-0001 / Rafferty Fee Lease - Well No. 1 (#19053)		PROJECT LOCATION Big Thicket National Preserve, Hardin County, TX	
DRILLING COMPANY Alpine Field Services	DRILLING METHOD Hollow Stem Auger	LOGGED BY Scott Leffler	
SAMPLING METHOD 4' Macro-Core Sampler	DATE STARTED 8/28/2007	DATE COMPLETED 8/28/2007	
BOREHOLE DIAMETER 8.25"	CASING TYPE / DIAMETER PVC / 2"	SCREEN TYPE / SLOT SIZE PVC / 0.010"	
GRAVEL PACK TYPE 20/40-Grade	GROUT TYPE Bentonite	GROUND ELEVATION —	
DEPTH TO WATER DURING DRILLING ∇ 5.3 ft.		STATIC DEPTH TO GROUNDWATER ∇ 6.8 ft.	TOP OF CASING ELEVATION NM

REMARKS: This log should not be used separately from the original report. Background PID reading equaled 25 ppm.

Depth (ft. bgs)	Sample	Recovery %	PID (ppm)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	Water Levels	WELL DIAGRAM
				SP		(0' - 4.5') Sand, fine-grained, poorly graded, lt. brown, loose, dry to slightly moist, no odor		
			33.6			(0.5') grades to few silt, moist		
		67	33.6	SM		(1.5') grades to few silt and clay, lt. grey-brown, loose to medium dense		
						(2' - 3') No Recovery		
			34.1	SM				
			34.1			(4.5' - 4.75') Wood debris, partially stained black		
5		63		CL		(4.75' - 5.25') Clay with few fine-grained sand and silt, lt. grey, medium stiff, low plasticity, moist, no odor		
				SW		(5.25' - 10') Sand, fine to medium grained, well graded, reddish-brown, loose, wet, no odor		
						(5.5' - 7') No Recovery		
			33.8					
		75	32.7	SW		(8.5') grades to tan to lt. brown		
			33.2					
10						(10' - 11') No Recovery		

Bottom of borehole at 11.0 feet.

FIG. SOIL BORING / MONITORING WELL LOG 7007-0001.GPJ SKA CONSULTING.GDT 3/1/2007

ATTACHMENT 3
GROUNDWATER SAMPLING LOG

LOW FLOW GROUNDWATER SAMPLING LOG



MONITORING WELL ID: TMW-1
 PROJECT: Rafferty Fee Lease #1 - BTNP
 PROJECT NO: 7007-0801
 SITE LOCATION: Big Thicket Nat'l Preserve
 DATE MONITORED: 8-28-07
 DATE PURGED: 8-28-07
 GEOLOGIST/SCIENTIST: Leffler/Taylor

MONITORING WELL INFORMATION

Static Depth to Groundwater (DTW): 9.60 FT.
 Total Depth of Monitoring Well (TD): 14.19 FT.
 Screen Length (SL) from Boring Logs: 5.0 FT.
 Depth to Top of Well Screen (TD-SL): 9.19 FT.
 Height of Water Column in Monitoring Well (H=TD-DTW): 4.59 FT.
 Pump Depth: 11.69 FT.

WELL CASING VOLUME CALCULATIONS

☒ 1-inch (Hx0.04 gal/Ft) 0.73 Gallons
☐ 2-inch (Hx0.17 gal/Ft) 0.25 Gallons
☐ 4-inch (Hx0.66 gal/Ft) 0.20 Gallons

LOW FLOW MONITORING PARAMETERS

Time	Volume Purged	Temp.	Specific Conductivity	Dissolved Oxygen	pH	ORP	Turbidity	Depth to Water	Flow Rate
Hr : Min	Gallons	C	mS/sec	mg/L	-	mV	NTUs	Feet	L/min
Targets	>1 Well Volume	+/- 1 C	+/- 3%	+/- 10%	+/- 0.1	+/- 10 mV	+/- 10% (if >10 NTUs)	<0.3 ft. draw or Top of Screen	<0.5 L/min (0.132 Gal/min)
1457	1.0	24.20	2.098	2.18	6.15	-94.1	368	9.70	0.48
1503	1.75	24.03	1.961	1.90	6.15	-83.2	92.9	9.27	0.48
1509	2.50	24.07	1.944	1.62	6.17	-78.9	33.6	8.91	0.49
1515	3.25	24.12	1.840	1.86	6.15	-69.7	22.7	8.46	0.48
1521	4.00	24.20	1.818	1.79	6.15	-69.6	25.7	8.40	0.46
1527	4.75	24.18	1.813	1.77	6.16	-69.4	27.0	8.42	0.46
1533	5.50	24.18	1.807	1.75	6.15	-69.2	24.2	8.40	0.46
Final Parameter Readings After Groundwater Sample has been collected									
1545	7.0	24.12	1.831	1.56	6.15	-70.3	18.8	8.33	0.46

- Notes:
1. Water quality parameter measurements obtained no more frequent than 25% of the casing volume.
 2. Well is **STABLE** once 3 consecutive measurements have been obtained for as many as 3 water quality parameters AFTER one (1) well volume has been removed.
 3. Low flow rate target is 0.1 to 0.5 liter/min (0.026 to 0.132 Gallons per Minute).

Purge Flow Rate (pump purge only) 0.13 gal per min 0.48 liter per min (3.8 x gpm)
 TOTAL Volume Purged 7.0 gallons

Date & Time of Sample Collection 8-28-07 DATE 1540 TIME

ATTACHMENT 4

**CERTIFICATES OF ANALYSIS AND CHAIN OF CUSTODY
DOCUMENTATION**



e-Lab Analytical, Inc.

10450 Stancliff Rd, Suite 210 Houston, Texas 77099-4338 (281) 530-5656 Fax (281) 530-5887

September 12, 2007

Adam Taylor
SKA Consulting, L.P.
10260 Westheimer
Suite 605
Houston, TX 77042

Tel: (713) 266-6056
Fax: (713) 266-0996

Re: 7007-0001/Big Thicket National Preserve

Work Order : **0708647**

Dear Adam Taylor,

e-Lab Analytical, Inc. received 25 samples on 8/29/2007 for the analyses presented in the following report.

The analytical data provided relates directly to the samples received by e-Lab Analytical, Inc. and for only the analyses requested. Results are expressed as "as received" unless otherwise noted.

QC sample results for this data met EPA or laboratory specifications except as noted in the Case Narrative or as noted with qualifiers in the QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained by e-Lab Analytical, Inc. Samples will be disposed in 30 days unless storage arrangements are made.

The total number of pages in this report is 36.

If you have any questions regarding this report, please feel free to call me.

Sincerely,

Electronically approved by: Rebecca L. Hunt

Jeffrey L Croston
Project Manager



Certificate No: T104704231-06-TX

CLIENT: SKA Consulting, L.P.
Project: 7007-0001/Big Thicket National Preserve
Work Order: 0708647

Work Order Sample Summary

<u>Lab Samp ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Tag Number</u>	<u>Collection Date</u>	<u>Date Received</u>	<u>Hold</u>
0708647-01	SB-1 0'-1'	Soil		8/28/2007 10:14	8/28/2007 11:45	<input type="checkbox"/>
0708647-02	SB-1 2'-3'	Soil		8/28/2007 10:16	8/28/2007 11:45	<input checked="" type="checkbox"/>
0708647-03	SB-2 0'-1'	Soil		8/28/2007 10:20	8/28/2007 11:45	<input type="checkbox"/>
0708647-04	SB-2 1'-2'	Soil		8/28/2007 10:23	8/28/2007 11:45	<input type="checkbox"/>
0708647-05	SB-2 2'-3'	Soil		8/28/2007 10:27	8/28/2007 11:45	<input type="checkbox"/>
0708647-06	SB-3 0'-1'	Soil		8/28/2007 10:46	8/28/2007 11:45	<input type="checkbox"/>
0708647-07	SB-3 2'-3'	Soil		8/28/2007 10:51	8/28/2007 11:45	<input checked="" type="checkbox"/>
0708647-08	SB-4 0'-1'	Soil		8/28/2007 10:55	8/28/2007 11:45	<input type="checkbox"/>
0708647-09	SB-4 2'-3'	Soil		8/28/2007 11:00	8/28/2007 11:45	<input checked="" type="checkbox"/>
0708647-10	SB-5 0'-1'	Soil		8/28/2007 11:05	8/28/2007 11:45	<input type="checkbox"/>
0708647-11	SB-5 2'-3'	Soil		8/28/2007 11:12	8/28/2007 11:45	<input checked="" type="checkbox"/>
0708647-12	SB-6 0'-1'	Soil		8/28/2007 11:18	8/28/2007 11:45	<input type="checkbox"/>
0708647-13	SB-6 2'-3'	Soil		8/28/2007 11:24	8/28/2007 11:45	<input checked="" type="checkbox"/>
0708647-14	SB-7 0'-1'	Soil		8/28/2007 11:33	8/28/2007 11:45	<input type="checkbox"/>
0708647-15	SB-7 2'-3'	Soil		8/28/2007 11:37	8/28/2007 11:45	<input checked="" type="checkbox"/>
0708647-16	SB-8 0'-1'	Soil		8/28/2007 11:53	8/28/2007 11:45	<input type="checkbox"/>
0708647-17	SB-8 2'-3'	Soil		8/28/2007 11:58	8/28/2007 11:45	<input checked="" type="checkbox"/>
0708647-18	SB-9 0'-1'	Soil		8/28/2007 12:01	8/28/2007 11:45	<input type="checkbox"/>
0708647-19	SB-9 2'-3'	Soil		8/28/2007 12:06	8/28/2007 11:45	<input checked="" type="checkbox"/>
0708647-20	SB-10 0'-1'	Soil		8/28/2007 13:03	8/28/2007 11:45	<input type="checkbox"/>
0708647-21	SB-10 2'-3'	Soil		8/28/2007 13:09	8/28/2007 11:45	<input checked="" type="checkbox"/>
0708647-22	TMW-1 0'-1'	Soil		8/28/2007 12:30	8/28/2007 11:45	<input type="checkbox"/>
0708647-23	TMW-1 4'-5'	Soil		8/28/2007 12:42	8/28/2007 11:45	<input type="checkbox"/>
0708647-24	PIT 1	Soil		8/28/2007 13:50	8/28/2007 11:45	<input type="checkbox"/>
0708647-25	PIT 2	Soil		8/28/2007 13:55	8/28/2007 11:45	<input type="checkbox"/>

CLIENT: SKA Consulting, L.P.
Project: 7007-0001/Big Thicket National Preserve
Work Order: 0708647

Case Narrative

BTEX (samples SB-2 0'-1' and PIT 2) Surrogate recoveries were outside of the control limits. Recoveries were all confirmed by re-analysis.

TPH TX1005 (samples PIT-1 and PIT-2) Surrogates were diluted out of the samples.

Batch 25329 TPH TX1005 (sample SB-1 0'-1') MS/MSD RPD recovery was above the control limits for nC6 to nC12 (24.7%). Recoveries met method criteria in both MS/MSD.

Batch R54041 BTEX MS was an unrelated sample.

e-Lab Analytical, Inc.

Date: September 12, 2007

CLIENT: SKA Consulting, L.P.
Work Order: 0708647
Project: 7007-0001/Big Thicket National Preserve
Lab ID: 0708647-01

Client Sample ID: SB-1 0'-1'
Collection Date: 8/28/2007 10:14:00 AM

Matrix: SOIL

Analyses	Result	Qual	SDL	SQL	Units	Dilution Factor	Date Analyzed
<hr/>							
TEXAS TPH			Method: TX1005		Prep: TX1005PR / 8/31/07		Analyst: JFT
nC6 to nC12	U		17	54	mg/Kg-dry	1	9/4/2007
>nC12 to nC28	U		17	54	mg/Kg-dry	1	9/4/2007
>nC28 to nC35	U		17	54	mg/Kg-dry	1	9/4/2007
Total Petroleum Hydrocarbon	U		17	54	mg/Kg-dry	1	9/4/2007
Surr: 2-Fluorobiphenyl	82.7			70-130	%REC	1	9/4/2007
Surr: Trifluoromethyl benzene	102			70-130	%REC	1	9/4/2007
BTEX, SOIL			Method: SW8021B				Analyst: WLR
Benzene	U		0.00033	0.0011	mg/Kg-dry	1	9/1/2007
Toluene	0.00044	J	0.00033	0.0011	mg/Kg-dry	1	9/1/2007
Ethylbenzene	U		0.00033	0.0011	mg/Kg-dry	1	9/1/2007
Xylenes, Total	U		0.0011	0.0033	mg/Kg-dry	1	9/1/2007
Surr: 4-Bromofluorobenzene	113			75-131	%REC	1	9/1/2007
Surr: Trifluorotoluene	120			73-130	%REC	1	9/1/2007
PERCENT MOISTURE			Method: E160.3				Analyst: MAM
Percent Moisture	9.7		0.010	0.010	wt%	1	8/30/2007

Qualifiers:

U - Analyzed for but Not Detected

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

* - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits

P - Dual Column results RPD > 40%

E - Value above quantitation range

H - Analyzed outside of Hold Time

e-Lab Analytical, Inc.

Date: September 12, 2007

CLIENT: SKA Consulting, L.P.
Work Order: 0708647
Project: 7007-0001/Big Thicket National Preserve
Lab ID: 0708647-03

Client Sample ID: SB-2 0'-1'
Collection Date: 8/28/2007 10:20:00 AM

Matrix: SOIL

Analyses	Result	Qual	SDL	SQL	Units	Dilution Factor	Date Analyzed
<hr/>							
TEXAS TPH			Method: TX1005		Prep: TX1005PR / 8/31/07		Analyst: JFT
nC6 to nC12	260		18	56	mg/Kg-dry	1	9/5/2007
>nC12 to nC28	2,300		18	56	mg/Kg-dry	1	9/5/2007
>nC28 to nC35	300		18	56	mg/Kg-dry	1	9/5/2007
Total Petroleum Hydrocarbon	2,860		18	56	mg/Kg-dry	1	9/5/2007
Surr: 2-Fluorobiphenyl	126			70-130	%REC	1	9/5/2007
Surr: Trifluoromethyl benzene	114			70-130	%REC	1	9/5/2007
BTEX, SOIL			Method: SW8021B				Analyst: WLR
Benzene	U		0.00034	0.0011	mg/Kg-dry	1	9/1/2007
Toluene	0.0019		0.00034	0.0011	mg/Kg-dry	1	9/1/2007
Ethylbenzene	0.021		0.00034	0.0011	mg/Kg-dry	1	9/1/2007
Xylenes, Total	0.12		0.0011	0.0034	mg/Kg-dry	1	9/1/2007
Surr: 4-Bromofluorobenzene	266	S		75-131	%REC	1	9/1/2007
Surr: Trifluorotoluene	114			73-130	%REC	1	9/1/2007
PERCENT MOISTURE			Method: E160.3				Analyst: MAM
Percent Moisture	12		0.010	0.010	wt%	1	8/30/2007

Qualifiers:

U - Analyzed for but Not Detected

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

* - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits

P - Dual Column results RPD > 40%

E - Value above quantitation range

H - Analyzed outside of Hold Time

e-Lab Analytical, Inc.

Date: September 12, 2007

CLIENT: SKA Consulting, L.P.
 Work Order: 0708647
 Project: 7007-0001/Big Thicket National Preserve
 Lab ID: 0708647-04

Client Sample ID: SB-2 1'-2'
 Collection Date: 8/28/2007 10:23:00 AM

Matrix: SOIL

Analyses	Result	Qual	SDL	ML	Units	Dilution Factor	Date Analyzed
TEXAS TPH							
			Method: TX1005		Prep: TX1005PR / 8/31/07		Analyst: JFT
nC6 to nC12	U		18	56	mg/Kg-dry	1	9/5/2007
>nC12 to nC28	26	J	18	56	mg/Kg-dry	1	9/5/2007
>nC28 to nC35	U		18	56	mg/Kg-dry	1	9/5/2007
Total Petroleum Hydrocarbon	26.0	J	18	56	mg/Kg-dry	1	9/5/2007
Surr: 2-Fluorobiphenyl	89.5			70-130	%REC	1	9/5/2007
Surr: Trifluoromethyl benzene	101			70-130	%REC	1	9/5/2007
BTEX, SOIL							
			Method: SW8021B				Analyst: WLR
Benzene	U		0.00034	0.0011	mg/Kg-dry	1	9/1/2007
Toluene	0.00077	J	0.00034	0.0011	mg/Kg-dry	1	9/1/2007
Ethylbenzene	U		0.00034	0.0011	mg/Kg-dry	1	9/1/2007
Xylenes, Total	0.012		0.0011	0.0034	mg/Kg-dry	1	9/1/2007
Surr: 4-Bromofluorobenzene	108			75-131	%REC	1	9/1/2007
Surr: Trifluorotoluene	115			73-130	%REC	1	9/1/2007
PERCENT MOISTURE							
			Method: E160.3				Analyst: MAM
Percent Moisture	11		0.010	0.010	wt%	1	8/30/2007

Qualifiers: U - Analyzed for but Not Detected
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 * - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits
 P - Dual Column results RPD > 40%
 E - Value above quantitation range
 H - Analyzed outside of Hold Time

e-Lab Analytical, Inc.

Date: September 12, 2007

CLIENT: SKA Consulting, L.P.
Work Order: 0708647
Project: 7007-0001/Big Thicket National Preserve
Lab ID: 0708647-05

Client Sample ID: SB-2 2'-3'
Collection Date: 8/28/2007 10:27:00 AM

Matrix: SOIL

Analyses	Result	Qual	SDL	ML	Units	Dilution Factor	Date Analyzed
<hr/>							
TEXAS TPH			Method: TX1005		Prep: TX1005PR / 8/31/07		Analyst: JFT
nC6 to nC12	U		20	62	mg/Kg-dry	1	9/5/2007
>nC12 to nC28	U		20	62	mg/Kg-dry	1	9/5/2007
>nC28 to nC35	U		20	62	mg/Kg-dry	1	9/5/2007
Total Petroleum Hydrocarbon	U		20	62	mg/Kg-dry	1	9/5/2007
Surr: 2-Fluorobiphenyl	84.7			70-130	%REC	1	9/5/2007
Surr: Trifluoromethyl benzene	102			70-130	%REC	1	9/5/2007
BTEX, SOIL			Method: SW8021B				Analyst: WLR
Benzene	U		0.00037	0.0012	mg/Kg-dry	1	9/1/2007
Toluene	U		0.00037	0.0012	mg/Kg-dry	1	9/1/2007
Ethylbenzene	U		0.00037	0.0012	mg/Kg-dry	1	9/1/2007
Xylenes, Total	0.013		0.0012	0.0037	mg/Kg-dry	1	9/1/2007
Surr: 4-Bromofluorobenzene	98.3			75-131	%REC	1	9/1/2007
Surr: Trifluorotoluene	100			73-130	%REC	1	9/1/2007
PERCENT MOISTURE			Method: E160.3				Analyst: MAM
Percent Moisture	20		0.010	0.010	wt%	1	8/30/2007

Qualifiers:

U - Analyzed for but Not Detected

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

* - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits

P - Dual Column results RPD > 40%

E - Value above quantitation range

H - Analyzed outside of Hold Time

e-Lab Analytical, Inc.
Date: September 12, 2007

CLIENT: SKA Consulting, L.P.
Work Order: 0708647
Project: 7007-0001/Big Thicket National Preserve
Lab ID: 0708647-06

Client Sample ID: SB-3 0'-1'
Collection Date: 8/28/2007 10:46:00 AM

Matrix: SOIL

Analyses	Result	Qual	SDL	SQL	Units	Dilution Factor	Date Analyzed
TEXAS TPH							
			Method: TX1005			Prep: TX1005PR / 8/31/07	Analyst: JFT
nC6 to nC12	U		18	56	mg/Kg-dry	1	9/5/2007
>nC12 to nC28	140		18	56	mg/Kg-dry	1	9/5/2007
>nC28 to nC35	40	J	18	56	mg/Kg-dry	1	9/5/2007
Total Petroleum Hydrocarbon	180		18	56	mg/Kg-dry	1	9/5/2007
Surr: 2-Fluorobiphenyl	76.6			70-130	%REC	1	9/5/2007
Surr: Trifluoromethyl benzene	96.8			70-130	%REC	1	9/5/2007
BTEX, SOIL							
			Method: SW8021B				Analyst: WLR
Benzene	U		0.00034	0.0011	mg/Kg-dry	1	9/1/2007
Toluene	0.00036	J	0.00034	0.0011	mg/Kg-dry	1	9/1/2007
Ethylbenzene	U		0.00034	0.0011	mg/Kg-dry	1	9/1/2007
Xylenes, Total	0.0027	J	0.0011	0.0034	mg/Kg-dry	1	9/1/2007
Surr: 4-Bromofluorobenzene	111			75-131	%REC	1	9/1/2007
Surr: Trifluorotoluene	118			73-130	%REC	1	9/1/2007
PERCENT MOISTURE							
			Method: E160.3				Analyst: MAM
Percent Moisture	13		0.010	0.010	wt%	1	8/30/2007

Qualifiers:

U - Analyzed for but Not Detected

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

* - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits

P - Dual Column results RPD > 40%

E - Value above quantitation range

H - Analyzed outside of Hold Time

e-Lab Analytical, Inc.
Date: September 12, 2007

CLIENT: SKA Consulting, L.P.
Work Order: 0708647
Project: 7007-0001/Big Thicket National Preserve
Lab ID: 0708647-08

Client Sample ID: SB-4 0'-1'
Collection Date: 8/28/2007 10:55:00 AM

Matrix: SOIL

Analyses	Result	Qual	SDL	ML	Units	Dilution Factor	Date Analyzed
TEXAS TPH							
			Method: TX1005			Prep: TX1005PR / 8/31/07	Analyst: JFT
nC6 to nC12	U		19	61	mg/Kg-dry	1	9/5/2007
>nC12 to nC28	380		19	61	mg/Kg-dry	1	9/5/2007
>nC28 to nC35	210		19	61	mg/Kg-dry	1	9/5/2007
Total Petroleum Hydrocarbon	590		19	61	mg/Kg-dry	1	9/5/2007
Surr: 2-Fluorobiphenyl	74.5			70-130	%REC	1	9/5/2007
Surr: Trifluoromethyl benzene	98.6			70-130	%REC	1	9/5/2007
BTEX, SOIL							
			Method: SW8021B				Analyst: WLR
Benzene	U		0.00037	0.0012	mg/Kg-dry	1	9/1/2007
Toluene	0.00062	J	0.00037	0.0012	mg/Kg-dry	1	9/1/2007
Ethylbenzene	U		0.00037	0.0012	mg/Kg-dry	1	9/1/2007
Xylenes, Total	0.0051		0.0012	0.0037	mg/Kg-dry	1	9/1/2007
Surr: 4-Bromofluorobenzene	97.0			75-131	%REC	1	9/1/2007
Surr: Trifluorotoluene	114			73-130	%REC	1	9/1/2007
PERCENT MOISTURE							
			Method: E160.3				Analyst: MAM
Percent Moisture	18		0.010	0.010	wt%	1	8/30/2007

Qualifiers:

U - Analyzed for but Not Detected

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

* - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits

P - Dual Column results RPD > 40%

E - Value above quantitation range

H - Analyzed outside of Hold Time

e-Lab Analytical, Inc.

Date: September 12, 2007

CLIENT: SKA Consulting, L.P.
Work Order: 0708647
Project: 7007-0001/Big Thicket National Preserve
Lab ID: 0708647-10

Client Sample ID: SB-5 0'-1'
Collection Date: 8/28/2007 11:05:00 AM

Matrix: SOIL

Analyses	Result	Qual	SDL	SQL	Units	Dilution Factor	Date Analyzed
<hr/>							
TEXAS TPH			Method: TX1005		Prep: TX1005PR / 8/31/07		Analyst: JFT
nC6 to nC12	U		18	56	mg/Kg-dry	1	9/5/2007
>nC12 to nC28	U		18	56	mg/Kg-dry	1	9/5/2007
>nC28 to nC35	U		18	56	mg/Kg-dry	1	9/5/2007
Total Petroleum Hydrocarbon	U		18	56	mg/Kg-dry	1	9/5/2007
Surr: 2-Fluorobiphenyl	74.9			70-130	%REC	1	9/5/2007
Surr: Trifluoromethyl benzene	81.9			70-130	%REC	1	9/5/2007
BTEX, SOIL			Method: SW8021B				Analyst: WLR
Benzene	U		0.00033	0.0011	mg/Kg-dry	1	9/1/2007
Toluene	U		0.00033	0.0011	mg/Kg-dry	1	9/1/2007
Ethylbenzene	U		0.00033	0.0011	mg/Kg-dry	1	9/1/2007
Xylenes, Total	U		0.0011	0.0033	mg/Kg-dry	1	9/1/2007
Surr: 4-Bromofluorobenzene	110			75-131	%REC	1	9/1/2007
Surr: Trifluorotoluene	122			73-130	%REC	1	9/1/2007
PERCENT MOISTURE			Method: E160.3				Analyst: MAM
Percent Moisture	10		0.010	0.010	wt%	1	8/30/2007

Qualifiers: U - Analyzed for but Not Detected
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits
P - Dual Column results RPD > 40%
E - Value above quantitation range
H - Analyzed outside of Hold Time

e-Lab Analytical, Inc.

Date: September 12, 2007

CLIENT: SKA Consulting, L.P.
Work Order: 0708647
Project: 7007-0001/Big Thicket National Preserve
Lab ID: 0708647-12

Client Sample ID: SB-6 0'-1'
Collection Date: 8/28/2007 11:18:00 AM

Matrix: SOIL

Analyses	Result	Qual	SDL	SQL	Units	Dilution Factor	Date Analyzed
<hr/>							
TEXAS TPH			Method: TX1005		Prep: TX1005PR / 8/31/07		Analyst: JFT
nC6 to nC12	U		18	55	mg/Kg-dry	1	9/5/2007
>nC12 to nC28	U		18	55	mg/Kg-dry	1	9/5/2007
>nC28 to nC35	U		18	55	mg/Kg-dry	1	9/5/2007
Total Petroleum Hydrocarbon	U		18	55	mg/Kg-dry	1	9/5/2007
Surr: 2-Fluorobiphenyl	96.3			70-130	%REC	1	9/5/2007
Surr: Trifluoromethyl benzene	105			70-130	%REC	1	9/5/2007
BTEX, SOIL			Method: SW8021B				Analyst: WLR
Benzene	U		0.00034	0.0011	mg/Kg-dry	1	9/1/2007
Toluene	U		0.00034	0.0011	mg/Kg-dry	1	9/1/2007
Ethylbenzene	U		0.00034	0.0011	mg/Kg-dry	1	9/1/2007
Xylenes, Total	U		0.0011	0.0034	mg/Kg-dry	1	9/1/2007
Surr: 4-Bromofluorobenzene	99.0			75-131	%REC	1	9/1/2007
Surr: Trifluorotoluene	116			73-130	%REC	1	9/1/2007
PERCENT MOISTURE			Method: E160.3				Analyst: MAM
Percent Moisture	11		0.010	0.010	wt%	1	8/30/2007

Qualifiers:

U - Analyzed for but Not Detected

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

* - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits

P - Dual Column results RPD > 40%

E - Value above quantitation range

H - Analyzed outside of Hold Time

e-Lab Analytical, Inc.

Date: September 12, 2007

CLIENT: SKA Consulting, L.P.
Work Order: 0708647
Project: 7007-0001/Big Thicket National Preserve
Lab ID: 0708647-14

Client Sample ID: SB-7 0'-1'
Collection Date: 8/28/2007 11:33:00 AM

Matrix: SOIL

Analyses	Result	Qual	SDL	SQL	Units	Dilution Factor	Date Analyzed
<hr/>							
TEXAS TPH			Method: TX1005		Prep: TX1005PR / 8/31/07		Analyst: JFT
nC6 to nC12	U		19	60	mg/Kg-dry	1	9/5/2007
>nC12 to nC28	100		19	60	mg/Kg-dry	1	9/5/2007
>nC28 to nC35	72		19	60	mg/Kg-dry	1	9/5/2007
Total Petroleum Hydrocarbon	172		19	60	mg/Kg-dry	1	9/5/2007
Surr: 2-Fluorobiphenyl	81.1			70-130	%REC	1	9/5/2007
Surr: Trifluoromethyl benzene	99.8			70-130	%REC	1	9/5/2007
BTEX, SOIL			Method: SW8021B				Analyst: WLR
Benzene	U		0.00036	0.0012	mg/Kg-dry	1	9/4/2007
Toluene	U		0.00036	0.0012	mg/Kg-dry	1	9/4/2007
Ethylbenzene	U		0.00036	0.0012	mg/Kg-dry	1	9/4/2007
Xylenes, Total	U		0.0012	0.0036	mg/Kg-dry	1	9/4/2007
Surr: 4-Bromofluorobenzene	117			75-131	%REC	1	9/4/2007
Surr: Trifluorotoluene	123			73-130	%REC	1	9/4/2007
PERCENT MOISTURE			Method: E160.3				Analyst: MAM
Percent Moisture	17		0.010	0.010	wt%	1	8/30/2007

Qualifiers:

U - Analyzed for but Not Detected

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

* - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits

P - Dual Column results RPD > 40%

E - Value above quantitation range

H - Analyzed outside of Hold Time

e-Lab Analytical, Inc.

Date: September 12, 2007

CLIENT: SKA Consulting, L.P.
Work Order: 0708647
Project: 7007-0001/Big Thicket National Preserve
Lab ID: 0708647-16

Client Sample ID: SB-8 0'-1'
Collection Date: 8/28/2007 11:53:00 AM

Matrix: SOIL

Analyses	Result	Qual	SDL	ML	Units	Dilution Factor	Date Analyzed
<hr/>							
TEXAS TPH			Method: TX1005		Prep: TX1005PR / 8/31/07		Analyst: JFT
nC6 to nC12	U		16	51	mg/Kg-dry	1	9/5/2007
>nC12 to nC28	U		16	51	mg/Kg-dry	1	9/5/2007
>nC28 to nC35	U		16	51	mg/Kg-dry	1	9/5/2007
Total Petroleum Hydrocarbon	U		16	51	mg/Kg-dry	1	9/5/2007
Surr: 2-Fluorobiphenyl	75.2			70-130	%REC	1	9/5/2007
Surr: Trifluoromethyl benzene	91.8			70-130	%REC	1	9/5/2007
BTEX, SOIL			Method: SW8021B				Analyst: WLR
Benzene	U		0.00031	0.0010	mg/Kg-dry	1	9/1/2007
Toluene	0.0010		0.00031	0.0010	mg/Kg-dry	1	9/1/2007
Ethylbenzene	U		0.00031	0.0010	mg/Kg-dry	1	9/1/2007
Xylenes, Total	U		0.0010	0.0031	mg/Kg-dry	1	9/1/2007
Surr: 4-Bromofluorobenzene	102			75-131	%REC	1	9/1/2007
Surr: Trifluorotoluene	116			73-130	%REC	1	9/1/2007
PERCENT MOISTURE			Method: E160.3				Analyst: MAM
Percent Moisture	3.0		0.010	0.010	wt%	1	8/30/2007

Qualifiers:

U - Analyzed for but Not Detected

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

* - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits

P - Dual Column results RPD > 40%

E - Value above quantitation range

H - Analyzed outside of Hold Time

e-Lab Analytical, Inc.

Date: September 12, 2007

CLIENT: SKA Consulting, L.P.
Work Order: 0708647
Project: 7007-0001/Big Thicket National Preserve
Lab ID: 0708647-18

Client Sample ID: SB-9 0'-1'
Collection Date: 8/28/2007 12:01:00 PM

Matrix: SOIL

Analyses	Result	Qual	SDL	ML	Units	Dilution Factor	Date Analyzed
<hr/>							
TEXAS TPH			Method: TX1005		Prep: TX1005PR / 8/31/07		Analyst: JFT
nC6 to nC12	U		18	57	mg/Kg-dry	1	9/5/2007
>nC12 to nC28	U		18	57	mg/Kg-dry	1	9/5/2007
>nC28 to nC35	U		18	57	mg/Kg-dry	1	9/5/2007
Total Petroleum Hydrocarbon	U		18	57	mg/Kg-dry	1	9/5/2007
Surr: 2-Fluorobiphenyl	92.9			70-130	%REC	1	9/5/2007
Surr: Trifluoromethyl benzene	100			70-130	%REC	1	9/5/2007
BTEX, SOIL			Method: SW8021B				Analyst: WLR
Benzene	U		0.00034	0.0011	mg/Kg-dry	1	9/1/2007
Toluene	U		0.00034	0.0011	mg/Kg-dry	1	9/1/2007
Ethylbenzene	U		0.00034	0.0011	mg/Kg-dry	1	9/1/2007
Xylenes, Total	U		0.0011	0.0034	mg/Kg-dry	1	9/1/2007
Surr: 4-Bromofluorobenzene	95.5			75-131	%REC	1	9/1/2007
Surr: Trifluorotoluene	101			73-130	%REC	1	9/1/2007
PERCENT MOISTURE			Method: E160.3				Analyst: MAM
Percent Moisture	13		0.010	0.010	wt%	1	8/30/2007

Qualifiers: U - Analyzed for but Not Detected

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

* - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits

P - Dual Column results RPD > 40%

E - Value above quantitation range

H - Analyzed outside of Hold Time

e-Lab Analytical, Inc.

Date: September 12, 2007

CLIENT: SKA Consulting, L.P.
Work Order: 0708647
Project: 7007-0001/Big Thicket National Preserve
Lab ID: 0708647-20

Client Sample ID: SB-10 0'-1'
Collection Date: 8/28/2007 1:03:00 PM

Matrix: SOIL

Analyses	Result	Qual	SDL	SQL	Units	Dilution Factor	Date Analyzed
<hr/>							
TEXAS TPH			Method: TX1005		Prep: TX1005PR / 8/31/07		Analyst: JFT
nC6 to nC12	U		18	58	mg/Kg-dry	1	9/5/2007
>nC12 to nC28	U		18	58	mg/Kg-dry	1	9/5/2007
>nC28 to nC35	U		18	58	mg/Kg-dry	1	9/5/2007
Total Petroleum Hydrocarbon	U		18	58	mg/Kg-dry	1	9/5/2007
Surr: 2-Fluorobiphenyl	92.6			70-130	%REC	1	9/5/2007
Surr: Trifluoromethyl benzene	100			70-130	%REC	1	9/5/2007
BTEX, SOIL			Method: SW8021B				Analyst: WLR
Benzene	U		0.00035	0.0012	mg/Kg-dry	1	9/1/2007
Toluene	0.00049	J	0.00035	0.0012	mg/Kg-dry	1	9/1/2007
Ethylbenzene	U		0.00035	0.0012	mg/Kg-dry	1	9/1/2007
Xylenes, Total	U		0.0012	0.0035	mg/Kg-dry	1	9/1/2007
Surr: 4-Bromofluorobenzene	98.9			75-131	%REC	1	9/1/2007
Surr: Trifluorotoluene	112			73-130	%REC	1	9/1/2007
PERCENT MOISTURE			Method: E160.3				Analyst: MAM
Percent Moisture	14		0.010	0.010	wt%	1	8/30/2007

Qualifiers:

U - Analyzed for but Not Detected

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

* - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits

P - Dual Column results RPD > 40%

E - Value above quantitation range

H - Analyzed outside of Hold Time

e-Lab Analytical, Inc.

Date: September 12, 2007

CLIENT: SKA Consulting, L.P.
Work Order: 0708647
Project: 7007-0001/Big Thicket National Preserve
Lab ID: 0708647-22

Client Sample ID: TMW-1 0'-1'
Collection Date: 8/28/2007 12:30:00 PM

Matrix: SOIL

Analyses	Result	Qual	SDL	ML	Units	Dilution Factor	Date Analyzed
<hr/>							
TEXAS TPH			Method: TX1005		Prep: TX1005PR / 8/31/07		Analyst: JFT
nC6 to nC12	U		20	62	mg/Kg-dry	1	9/5/2007
>nC12 to nC28	U		20	62	mg/Kg-dry	1	9/5/2007
>nC28 to nC35	U		20	62	mg/Kg-dry	1	9/5/2007
Total Petroleum Hydrocarbon	U		20	62	mg/Kg-dry	1	9/5/2007
Surr: 2-Fluorobiphenyl	90.1			70-130	%REC	1	9/5/2007
Surr: Trifluoromethyl benzene	98.7			70-130	%REC	1	9/5/2007
BTEX, SOIL			Method: SW8021B				Analyst: WLR
Benzene	U		0.00038	0.0013	mg/Kg-dry	1	9/1/2007
Toluene	U		0.00038	0.0013	mg/Kg-dry	1	9/1/2007
Ethylbenzene	U		0.00038	0.0013	mg/Kg-dry	1	9/1/2007
Xylenes, Total	U		0.0013	0.0038	mg/Kg-dry	1	9/1/2007
Surr: 4-Bromofluorobenzene	113			75-131	%REC	1	9/1/2007
Surr: Trifluorotoluene	124			73-130	%REC	1	9/1/2007
PERCENT MOISTURE			Method: E160.3				Analyst: MAM
Percent Moisture	20		0.010	0.010	wt%	1	8/30/2007

Qualifiers:

U - Analyzed for but Not Detected

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

* - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits

P - Dual Column results RPD > 40%

E - Value above quantitation range

H - Analyzed outside of Hold Time

e-Lab Analytical, Inc.

Date: September 12, 2007

CLIENT: SKA Consulting, L.P.
Work Order: 0708647
Project: 7007-0001/Big Thicket National Preserve
Lab ID: 0708647-23

Client Sample ID: TMW-1 4'-5'
Collection Date: 8/28/2007 12:42:00 PM

Matrix: SOIL

Analyses	Result	Qual	SDL	SQL	Units	Dilution Factor	Date Analyzed
<hr/>							
TEXAS TPH			Method: TX1005		Prep: TX1005PR / 8/31/07		Analyst: JFT
nC6 to nC12	U		19	61	mg/Kg-dry	1	9/5/2007
>nC12 to nC28	U		19	61	mg/Kg-dry	1	9/5/2007
>nC28 to nC35	U		19	61	mg/Kg-dry	1	9/5/2007
Total Petroleum Hydrocarbon	U		19	61	mg/Kg-dry	1	9/5/2007
Surr: 2-Fluorobiphenyl	94.6			70-130	%REC	1	9/5/2007
Surr: Trifluoromethyl benzene	99.6			70-130	%REC	1	9/5/2007
BTEX, SOIL			Method: SW8021B				Analyst: WLR
Benzene	U		0.00037	0.0012	mg/Kg-dry	1	9/4/2007
Toluene	U		0.00037	0.0012	mg/Kg-dry	1	9/4/2007
Ethylbenzene	U		0.00037	0.0012	mg/Kg-dry	1	9/4/2007
Xylenes, Total	U		0.0012	0.0037	mg/Kg-dry	1	9/4/2007
Surr: 4-Bromofluorobenzene	118			75-131	%REC	1	9/4/2007
Surr: Trifluorotoluene	125			73-130	%REC	1	9/4/2007
PERCENT MOISTURE			Method: E160.3				Analyst: MAM
Percent Moisture	18		0.010	0.010	wt%	1	8/30/2007

Qualifiers:

U - Analyzed for but Not Detected

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

* - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits

P - Dual Column results RPD > 40%

E - Value above quantitation range

H - Analyzed outside of Hold Time

e-Lab Analytical, Inc.

Date: September 12, 2007

CLIENT: SKA Consulting, L.P.
Work Order: 0708647
Project: 7007-0001/Big Thicket National Preserve
Lab ID: 0708647-24

Client Sample ID: PIT 1
Collection Date: 8/28/2007 1:50:00 PM

Matrix: SOIL

Analyses	Result	Qual	SDL	ML	Units	Dilution Factor	Date Analyzed
<hr/>							
TEXAS TPH			Method: TX1005		Prep: TX1005PR / 8/31/07		Analyst: JFT
nC6 to nC12	U		210	650	mg/Kg-dry	10	9/5/2007
>nC12 to nC28	4,200		210	650	mg/Kg-dry	10	9/5/2007
>nC28 to nC35	670		210	650	mg/Kg-dry	10	9/5/2007
Total Petroleum Hydrocarbon	4,870		210	650	mg/Kg-dry	10	9/5/2007
Surr: 2-Fluorobiphenyl	104			70-130	%REC	10	9/5/2007
Surr: Trifluoromethyl benzene	210	S		70-130	%REC	10	9/5/2007
BTEX, SOIL			Method: SW8021B				Analyst: WLR
Benzene	0.0094		0.00040	0.0013	mg/Kg-dry	1	9/1/2007
Toluene	0.098		0.00040	0.0013	mg/Kg-dry	1	9/1/2007
Ethylbenzene	0.049		0.00040	0.0013	mg/Kg-dry	1	9/1/2007
Xylenes, Total	11		0.17	0.50	mg/Kg-dry	125	9/5/2007
Surr: 4-Bromofluorobenzene	119			75-131	%REC	1	9/1/2007
Surr: 4-Bromofluorobenzene	113			75-131	%REC	125	9/5/2007
Surr: Trifluorotoluene	87.5			73-130	%REC	1	9/1/2007
Surr: Trifluorotoluene	102			73-130	%REC	125	9/5/2007
PERCENT MOISTURE			Method: E160.3				Analyst: MAM
Percent Moisture	25		0.010	0.010	wt%	1	8/30/2007

Qualifiers:

U - Analyzed for but Not Detected

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

* - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits

P - Dual Column results RPD > 40%

E - Value above quantitation range

H - Analyzed outside of Hold Time

e-Lab Analytical, Inc.
Date: September 12, 2007

CLIENT: SKA Consulting, L.P.
Work Order: 0708647
Project: 7007-0001/Big Thicket National Preserve
Lab ID: 0708647-25

Client Sample ID: PIT 2
Collection Date: 8/28/2007 1:55:00 PM

Matrix: SOIL

Analyses	Result	Qual	SDL	ML	Units	Dilution Factor	Date Analyzed
TEXAS TPH							
			Method: TX1005			Prep: TX1005PR / 8/31/07	Analyst: JFT
nC6 to nC12	240	J	200	630	mg/Kg-dry	10	9/5/2007
>nC12 to nC28	9,900		200	630	mg/Kg-dry	10	9/5/2007
>nC28 to nC35	2,800		200	630	mg/Kg-dry	10	9/5/2007
Total Petroleum Hydrocarbon	12,900		200	630	mg/Kg-dry	10	9/5/2007
Surr: 2-Fluorobiphenyl	181	S		70-130	%REC	10	9/5/2007
Surr: Trifluoromethyl benzene	194	S		70-130	%REC	10	9/5/2007
BTEX, SOIL							
			Method: SW8021B				Analyst: WLR
Benzene	U		0.00039	0.0013	mg/Kg-dry	1	8/31/2007
Toluene	0.095		0.00039	0.0013	mg/Kg-dry	1	8/31/2007
Ethylbenzene	3.4		0.049	0.16	mg/Kg-dry	125	9/4/2007
Xylenes, Total	0.13		0.0013	0.0039	mg/Kg-dry	1	8/31/2007
Surr: 4-Bromofluorobenzene	789	SE		75-131	%REC	1	8/31/2007
Surr: 4-Bromofluorobenzene	105			75-131	%REC	125	9/4/2007
Surr: Trifluorotoluene	676	SE		73-130	%REC	1	8/31/2007
Surr: Trifluorotoluene	123			73-130	%REC	125	9/4/2007
PERCENT MOISTURE							
			Method: E160.3				Analyst: MAM
Percent Moisture	23		0.010	0.010	wt%	1	8/30/2007

Qualifiers:

U - Analyzed for but Not Detected

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

* - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits

P - Dual Column results RPD > 40%

E - Value above quantitation range

H - Analyzed outside of Hold Time

Test Code: BTEX_S

Test Number: SW8021B

Test Name: BTEX, Soil

Matrix: Solid Units: mg/Kg

**METHOD DETECTION /
REPORTING LIMITS**

Type	Analyte	CAS	MDL	Unadjusted MQL
A	Benzene	71-43-2	0.0003	0.001
A	Ethylbenzene	100-41-4	0.0003	0.001
A	Toluene	108-88-3	0.0003	0.001
M	Xylenes, Total	1330-20-7	0.001	0.003
S	Surr: 4-Bromofluorobenzene	460-00-4	0.0003	0.001
S	Surr: Trifluorotoluene	98-08-8	0.0003	0.001

Test Code: MOISTURE
Test Number: E160.3
Test Name: Percent Moisture
Matrix: Soil **Units:** wt%

**METHOD DETECTION /
REPORTING LIMITS**

Type	Analyte	CAS	MDL	Unadjusted MQL
A	Percent Moisture	MOIST	0.01	0.01

Test Code: TX1005_S_REV3

Test Number: TX1005

Test Name: Texas TPH

Matrix: Solid Units: mg/Kg

**METHOD DETECTION /
REPORTING LIMITS**

Type	Analyte	CAS	MDL	Unadjusted MQL
A	>nC12 to nC28	TPHDRO	16	50
A	>nC28 to nC35	10W40MOTO	16	50
A	nC6 to nC12	TPHGRO	16	50
M	Total Petroleum Hydrocarbon	TPH	16	50
S	Surr: 2-Fluorobiphenyl	321-60-8	0	0
S	Surr: Trifluoromethyl benzene	98-08-8	0	0

e-Lab Analytical, Inc.

Date: Sep 12 2007

CLIENT: SKA Consulting, L.P.

QC BATCH REPORT

Work Order: 0708647

Project: 7007-0001/Big Thicket National Preserve

Batch ID: 25329

Instrument ID FID-7

Method: TX1005

MBLK		Sample ID: FBLKS2-070831				Units: mg/Kg		Analysis Date: 09/04/07 19:37		
Client ID:		Run ID: FID-7_070831C				SeqNo: 1203799		Prep Date: 8/31/2007		DF: 1
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
nC6 to nC12	U	50								
>nC12 to nC28	U	50								
>nC28 to nC35	U	50								
Total Petroleum Hydrocarbon	U	50								
Surr: 2-Fluorobiphenyl	44.54	0	50	0	89.1	70-130	0			
Surr: Trifluoromethyl benzene	47.08	0	50	0	94.2	70-130	0			

LCS		Sample ID: FLCSS2-070831				Units: mg/Kg		Analysis Date: 09/04/07 20:13		
Client ID:		Run ID: FID-7_070831C				SeqNo: 1203800		Prep Date: 8/31/2007		DF: 1
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
nC6 to nC12	242.5	50	250	0	97	75-125	0			
>nC12 to nC28	192.2	50	250	0	76.9	75-125	0			
Surr: 2-Fluorobiphenyl	41.43	0	50	0	82.9	70-130	0			
Surr: Trifluoromethyl benzene	54.23	0	50	0	108	70-130	0			

LCSD		Sample ID: FLCSDS2-070831				Units: mg/Kg		Analysis Date: 09/04/07 20:50		
Client ID:		Run ID: FID-7_070831C				SeqNo: 1203801		Prep Date: 8/31/2007		DF: 1
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
nC6 to nC12	268.2	50	250	0	107	75-125	242.5	10.1	20	
>nC12 to nC28	191.7	50	250	0	76.7	75-125	192.2	0.29	20	
Surr: 2-Fluorobiphenyl	44.73	0	50	0	89.5	70-130	41.43	7.67	20	
Surr: Trifluoromethyl benzene	61.67	0	50	0	123	70-130	54.23	12.8	20	

MS		Sample ID: 0708647-01BMS				Units: mg/Kg		Analysis Date: 09/04/07 22:03		
Client ID: SB-1 0'-1'		Run ID: FID-7_070831C				SeqNo: 1203803		Prep Date: 8/31/2007		DF: 1
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
nC6 to nC12	225.3	49	247.3	0	91.1	75-125	0			
>nC12 to nC28	190.1	49	247.3	0	76.9	75-125	0			
Surr: 2-Fluorobiphenyl	39.76	0	49.46	0	80.4	70-130	0			
Surr: Trifluoromethyl benzene	52.53	0	49.46	0	106	70-130	0			

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

O - Referenced analyte value is > 4 times amount spiked

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

P - Dual Column results percent difference > 40%

B - Analyte detected in assoc. Method Blank

U - Analyzed for but not detected

E - Value above quantitation range

CLIENT: SKA Consulting, L.P.
Work Order: 0708647
Project: 7007-0001/Big Thicket National Preserve

QC BATCH REPORT

Batch ID: **25329** Instrument ID **FID-7** Method: **TX1005**

MSD		Sample ID: 0708647-01BMSD			Units: mg/Kg			Analysis Date: 09/04/07 22:39		
Client ID: SB-1 0'-1'		Run ID: FID-7_070831C			SeqNo: 1203804		Prep Date: 8/31/2007		DF: 1	
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
nC6 to nC12	289	49	246.5	0	117	75-125	225.3	24.7	20	R
>nC12 to nC28	207.4	49	246.5	0	84.1	75-125	190.1	8.7	20	
<i>Surr: 2-Fluorobiphenyl</i>	46.25	0	49.31	0	93.8	70-130	39.76	15.1	20	
<i>Surr: Trifluoromethyl benzene</i>	62.7	0	49.31	0	127	70-130	52.53	17.6	20	

The following samples were analyzed in this batch:

0708647-01B	0708647-03B	0708647-04B
0708647-05B	0708647-06B	0708647-08B
0708647-10B	0708647-12B	0708647-14B
0708647-16B	0708647-18B	0708647-20B
0708647-22B	0708647-23B	0708647-24B
0708647-25B		

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

O - Referenced analyte value is > 4 times amount spiked

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

P - Dual Column results percent difference > 40%

B - Analyte detected in assoc. Method Blank

U - Analyzed for but not detected

E - Value above quantitation range

CLIENT: SKA Consulting, L.P.
Work Order: 0708647
Project: 7007-0001/Big Thicket National Preserve

QC BATCH REPORT

Batch ID: **R53963** Instrument ID **BTEX3** Method: **SW8021B**

MBLK	Sample ID: BBLKS1-083107			Units: µg/Kg				Analysis Date: 08/31/07 8:52		
Client ID:	Run ID: BTEX3_070830B			SeqNo: 1201578		Prep Date:		DF: 1		
Analyte	Result	ML	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	U	1.0								
Toluene	U	1.0								
Xylenes, Total	U	3.0								
Surr: 4-Bromofluorobenzene	31.02	1.0	30	0	103	75-131	0			
Surr: Trifluorotoluene	34.77	1.0	30	0	116	73-130	0			

LCS	Sample ID: BLCSS1-083107			Units: µg/Kg				Analysis Date: 08/31/07 7:52		
Client ID:	Run ID: BTEX3_070830B			SeqNo: 1201577		Prep Date:		DF: 1		
Analyte	Result	ML	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	20.69	1.0	20	0	103	74-129	0			
Toluene	20.05	1.0	20	0	100	75-128	0			
Xylenes, Total	60.53	3.0	60	0	101	74-127	0			
Surr: 4-Bromofluorobenzene	34.34	1.0	30	0	114	75-131	0			
Surr: Trifluorotoluene	35.75	1.0	30	0	119	73-130	0			

MS	Sample ID: 0708626-02AMS			Units: µg/Kg				Analysis Date: 08/31/07 14:43		
Client ID:	Run ID: BTEX3_070830B			SeqNo: 1201626		Prep Date:		DF: 1		
Analyte	Result	ML	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	21.05	1.0	20	0	105	74-129	0			
Toluene	20.99	1.0	20	0	105	75-128	0			
Xylenes, Total	68.25	3.0	60	0	114	74-127	0			
Surr: 4-Bromofluorobenzene	34.45	1.0	30	0	115	75-131	0			
Surr: Trifluorotoluene	36.43	1.0	30	0	121	73-130	0			

MSD	Sample ID: 0708626-02AMSD			Units: µg/Kg				Analysis Date: 08/31/07 15:14		
Client ID:	Run ID: BTEX3_070830B			SeqNo: 1201627		Prep Date:		DF: 1		
Analyte	Result	ML	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	19.82	1.0	20	0	99.1	74-129	21.05	5.99	30	
Toluene	19.63	1.0	20	0	98.1	75-128	20.99	6.7	30	
Xylenes, Total	63.18	3.0	60	0	105	74-127	68.25	7.73	30	
Surr: 4-Bromofluorobenzene	33.17	1.0	30	0	111	75-131	34.45	3.79	30	
Surr: Trifluorotoluene	35.43	1.0	30	0	118	73-130	36.43	2.79	30	

The following samples were analyzed in this batch:

0708647-25A

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

O - Referenced analyte value is > 4 times amount spiked

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

P - Dual Column results percent difference > 40%

B - Analyte detected in assoc. Method Blank

U - Analyzed for but not detected

E - Value above quantitation range

CLIENT: SKA Consulting, L.P.
Work Order: 0708647
Project: 7007-0001/Big Thicket National Preserve

QC BATCH REPORT

Batch ID: **R53990** Instrument ID **BTEX3** Method: **SW8021B**

MBLK	Sample ID: BBLKS1-090107			Units: µg/Kg				Analysis Date: 09/01/07 0:50		
Client ID:	Run ID: BTEX3_070830C			SeqNo: 1202111		Prep Date:		DF: 1		
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	U	1.0								
Toluene	U	1.0								
Ethylbenzene	U	1.0								
Xylenes, Total	U	3.0								
Surr: 4-Bromofluorobenzene	31.25	1.0	30	0	104	75-131	0			
Surr: Trifluorotoluene	34.89	1.0	30	0	116	73-130	0			

LCS	Sample ID: BLCSS1-090107			Units: µg/Kg				Analysis Date: 08/31/07 23:49		
Client ID:	Run ID: BTEX3_070830C			SeqNo: 1202110		Prep Date:		DF: 1		
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	20.94	1.0	20	0	105	74-129	0			
Toluene	20.39	1.0	20	0	102	75-128	0			
Ethylbenzene	20.84	1.0	20	0	104	73-127	0			
Xylenes, Total	61.62	3.0	60	0	103	74-127	0			
Surr: 4-Bromofluorobenzene	35.15	1.0	30	0	117	75-131	0			
Surr: Trifluorotoluene	36.26	1.0	30	0	121	73-130	0			

MS	Sample ID: 0708647-01AMS			Units: µg/Kg				Analysis Date: 09/01/07 1:50		
Client ID: SB-1 0'-1'	Run ID: BTEX3_070830C			SeqNo: 1202113		Prep Date:		DF: 1		
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	17.09	1.0	20	0	85.4	74-129	0			
Toluene	15.89	1.0	20	0.3978	77.4	75-128	0			
Ethylbenzene	16.9	1.0	20	0	84.5	73-127	0			
Xylenes, Total	48.31	3.0	60	0.7381	79.3	74-127	0			
Surr: 4-Bromofluorobenzene	30.82	1.0	30	0	103	75-131	0			
Surr: Trifluorotoluene	34.9	1.0	30	0	116	73-130	0			

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

O - Referenced analyte value is > 4 times amount spiked

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

P - Dual Column results percent difference > 40%

B - Analyte detected in assoc. Method Blank

U - Analyzed for but not detected

E - Value above quantitation range

CLIENT: SKA Consulting, L.P.
Work Order: 0708647
Project: 7007-0001/Big Thicket National Preserve

QC BATCH REPORT

Batch ID: **R53990** Instrument ID **BTEX3** Method: **SW8021B**

MSD		Sample ID: 0708647-01AMSD				Units: µg/Kg		Analysis Date: 09/01/07 2:20		
Client ID: SB-1 0'-1'		Run ID: BTEX3_070830C				SeqNo: 1202114		Prep Date:		DF: 1
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	17.4	1.0	20	0	87	74-129	17.09	1.81	30	
Toluene	16.82	1.0	20	0.3978	82.1	75-128	15.89	5.73	30	
Ethylbenzene	17.16	1.0	20	0	85.8	73-127	16.9	1.49	30	
Xylenes, Total	48.27	3.0	60	0.7381	79.2	74-127	48.31	0.0896	30	
Surr: 4-Bromofluorobenzene	34.32	1.0	30	0	114	75-131	30.82	10.8	30	
Surr: Trifluorotoluene	36.43	1.0	30	0	121	73-130	34.9	4.3	30	

The following samples were analyzed in this batch:

0708647-01A	0708647-03A	0708647-04A
0708647-05A	0708647-06A	0708647-08A
0708647-10A	0708647-12A	0708647-16A
0708647-18A	0708647-20A	0708647-22A
0708647-24A		

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

O - Referenced analyte value is > 4 times amount spiked

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

P - Dual Column results percent difference > 40%

B - Analyte detected in assoc. Method Blank

U - Analyzed for but not detected

E - Value above quantitation range

CLIENT: SKA Consulting, L.P.
Work Order: 0708647
Project: 7007-0001/Big Thicket National Preserve

QC BATCH REPORT

Batch ID: **R54018** Instrument ID **BTEX3** Method: **SW8021B**

MBLK		Sample ID: BBLKS1-090407				Units: µg/Kg		Analysis Date: 09/04/07 11:59		
Client ID:		Run ID: BTEX3_070904A			SeqNo: 1202848		Prep Date:		DF: 1	
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	U	1.0								
Toluene	U	1.0								
Ethylbenzene	U	1.0								
Xylenes, Total	U	3.0								
Surr: 4-Bromofluorobenzene	34.82	1.0	30	0	116	75-131	0			
Surr: Trifluorotoluene	37.01	1.0	30	0	123	73-130	0			

LCS		Sample ID: BLCSS1-090407				Units: µg/Kg		Analysis Date: 09/04/07 10:58		
Client ID:		Run ID: BTEX3_070904A			SeqNo: 1202845		Prep Date:		DF: 1	
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	20.28	1.0	20	0	101	74-129	0			
Toluene	20.29	1.0	20	0	101	75-128	0			
Ethylbenzene	20.99	1.0	20	0	105	73-127	0			
Xylenes, Total	63.26	3.0	60	0	105	74-127	0			
Surr: 4-Bromofluorobenzene	37.32	1.0	30	0	124	75-131	0			
Surr: Trifluorotoluene	37.39	1.0	30	0	125	73-130	0			

MS		Sample ID: 0708647-14AMS				Units: µg/Kg		Analysis Date: 09/04/07 13:00		
Client ID: SB-7 0'-1'		Run ID: BTEX3_070904A			SeqNo: 1202853		Prep Date:		DF: 1	
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	21.88	1.0	20	0	109	74-129	0			
Toluene	21.76	1.0	20	0	109	75-128	0			
Ethylbenzene	22.23	1.0	20	0	111	73-127	0			
Xylenes, Total	67.23	3.0	60	0	112	74-127	0			
Surr: 4-Bromofluorobenzene	37.04	1.0	30	0	123	75-131	0			
Surr: Trifluorotoluene	37.99	1.0	30	0	127	73-130	0			

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

O - Referenced analyte value is > 4 times amount spiked

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

P - Dual Column results percent difference > 40%

B - Analyte detected in assoc. Method Blank

U - Analyzed for but not detected

E - Value above quantitation range

CLIENT: SKA Consulting, L.P.
Work Order: 0708647
Project: 7007-0001/Big Thicket National Preserve

QC BATCH REPORT

Batch ID: R54018 Instrument ID BTEX3 Method: SW8021B

MSD	Sample ID: 0708647-14AMSD				Units: µg/Kg			Analysis Date: 09/04/07 13:30		
Client ID: SB-7 0'-1'			Run ID: BTEX3_070904A		SeqNo: 1202856		Prep Date:		DF: 1	
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	20.14	1.0	20	0	101	74-129	21.88	8.29	30	
Toluene	20.08	1.0	20	0	100	75-128	21.76	8.01	30	
Ethylbenzene	20.4	1.0	20	0	102	73-127	22.23	8.56	30	
Xylenes, Total	61.86	3.0	60	0	103	74-127	67.23	8.32	30	
Surr: 4-Bromofluorobenzene	36.08	1.0	30	0	120	75-131	37.04	2.64	30	
Surr: Trifluorotoluene	38.29	1.0	30	0	128	73-130	37.99	0.801	30	

The following samples were analyzed in this batch:

0708647-14A	0708647-23A
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CLIENT: SKA Consulting, L.P.
Work Order: 0708647
Project: 7007-0001/Big Thicket National Preserve

QC BATCH REPORT

Batch ID: **R54041** Instrument ID **BTEX1** Method: **SW8021B**

MBLK		Sample ID: BBLKW1-090407				Units: µg/L		Analysis Date: 09/04/07 9:13		
Client ID:		Run ID: BTEX1_070904A			SeqNo: 1203269		Prep Date:		DF: 1	
Analyte	Result	MLQ	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Ethylbenzene	U	1.0								
Surr: 4-Bromofluorobenzene	29.03	1.0	30	0	96.8	77-129	0			
Surr: Trifluorotoluene	28.4	1.0	30	0	94.7	75-130	0			

LCS		Sample ID: BLCSW1-090407				Units: µg/L		Analysis Date: 09/04/07 8:20		
Client ID:		Run ID: BTEX1_070904A			SeqNo: 1203268		Prep Date:		DF: 1	
Analyte	Result	MLQ	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Ethylbenzene	24.14	1.0	20	0	121	76-125	0			
Surr: 4-Bromofluorobenzene	31.33	1.0	30	0	104	77-129	0			
Surr: Trifluorotoluene	29.17	1.0	30	0	97.2	75-130	0			

MS		Sample ID: 0708674-08AMS				Units: µg/L		Analysis Date: 09/04/07 10:33		
Client ID:		Run ID: BTEX1_070904A			SeqNo: 1203272		Prep Date:		DF: 1	
Analyte	Result	MLQ	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Ethylbenzene	25.03	1.0	20	0	125	76-125	0			S
Surr: 4-Bromofluorobenzene	29.4	1.0	30	0	98	77-129	0			
Surr: Trifluorotoluene	28.45	1.0	30	0	94.8	75-130	0			

MSD		Sample ID: 0708674-08AMSD				Units: µg/L		Analysis Date: 09/04/07 11:00		
Client ID:		Run ID: BTEX1_070904A			SeqNo: 1203273		Prep Date:		DF: 1	
Analyte	Result	MLQ	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Ethylbenzene	24.85	1.0	20	0	124	76-125	25.03	0.733	20	
Surr: 4-Bromofluorobenzene	29.87	1.0	30	0	99.6	77-129	29.4	1.59	20	
Surr: Trifluorotoluene	28.39	1.0	30	0	94.6	75-130	28.45	0.23	20	

The following samples were analyzed in this batch:

0708647-25A

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

O - Referenced analyte value is > 4 times amount spiked

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

P - Dual Column results percent difference > 40%

B - Analyte detected in assoc. Method Blank

U - Analyzed for but not detected

E - Value above quantitation range

CLIENT: SKA Consulting, L.P.
Work Order: 0708647
Project: 7007-0001/Big Thicket National Preserve

QC BATCH REPORT

Batch ID: **R54043** Instrument ID **BTEX1** Method: **SW8021B**

MBLK		Sample ID: BBLKW2-090507				Units: µg/L		Analysis Date: 09/04/07 23:05		
Client ID:		Run ID: BTEX1_070904C				SeqNo: 1203304		Prep Date:		DF: 1
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Xylenes, Total	U	3.0								
Surr: 4-Bromofluorobenzene	28.75	1.0	30	0	95.8	77-129	0			
Surr: Trifluorotoluene	28.3	1.0	30	0	94.3	75-130	0			

LCS		Sample ID: BLCSW2-090507				Units: µg/L		Analysis Date: 09/04/07 22:12		
Client ID:		Run ID: BTEX1_070904C				SeqNo: 1203303		Prep Date:		DF: 1
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Xylenes, Total	65.3	3.0	60	0	109	79-124	0			
Surr: 4-Bromofluorobenzene	30.27	1.0	30	0	101	77-129	0			
Surr: Trifluorotoluene	28.07	1.0	30	0	93.6	75-130	0			

MS		Sample ID: 0708690-12AMS				Units: µg/L		Analysis Date: 09/05/07 8:46		
Client ID:		Run ID: BTEX1_070904C				SeqNo: 1203370		Prep Date:		DF: 1
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Xylenes, Total	66.35	3.0	60	0	111	79-124	0			
Surr: 4-Bromofluorobenzene	30.41	1.0	30	0	101	77-129	0			
Surr: Trifluorotoluene	35.76	1.0	30	0	119	75-130	0			

MSD		Sample ID: 0708690-12AMSD				Units: µg/L		Analysis Date: 09/05/07 9:12		
Client ID:		Run ID: BTEX1_070904C				SeqNo: 1203371		Prep Date:		DF: 1
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Xylenes, Total	65.88	3.0	60	0	110	79-124	66.35	0.71	20	
Surr: 4-Bromofluorobenzene	30.22	1.0	30	0	101	77-129	30.41	0.648	20	
Surr: Trifluorotoluene	35.88	1.0	30	0	120	75-130	35.76	0.352	20	

The following samples were analyzed in this batch:

0708647-24A

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

O - Referenced analyte value is > 4 times amount spiked

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

P - Dual Column results percent difference > 40%

B - Analyte detected in assoc. Method Blank

U - Analyzed for but not detected

E - Value above quantitation range

CLIENT: SKA Consulting, L.P.
Work Order: 0708647
Project: 7007-0001/Big Thicket National Preserve

QC BATCH REPORT

Batch ID: **R53943** Instrument ID **Balance1** Method: **E160.3**

DUP		Sample ID: 0708647-01BDUP				Units: wt%		Analysis Date: 08/30/07 15:00		
Client ID: SB-1 0'-1'		Run ID: BALANCE1_070830B				SeqNo: 1201065		Prep Date:		DF: 1
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Percent Moisture	9.831	0.010	0	0	0	0-0	9.657	1.79	20	

DUP		Sample ID: 0708647-25BDUP				Units: wt%		Analysis Date: 08/30/07 15:00		
Client ID: PIT 2		Run ID: BALANCE1_070830B				SeqNo: 1201081		Prep Date:		DF: 1
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Percent Moisture	22.44	0.010	0	0	0	0-0	22.83	1.74	20	

The following samples were analyzed in this batch:

0708647-01B	0708647-03B	0708647-04B
0708647-05B	0708647-06B	0708647-08B
0708647-10B	0708647-12B	0708647-14B
0708647-16B	0708647-18B	0708647-20B
0708647-22B	0708647-23B	0708647-24B
0708647-25B		

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

O - Referenced analyte value is > 4 times amount spiked

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

P - Dual Column results percent difference > 40%

B - Analyte detected in assoc. Method Blank

U - Analyzed for but not detected

E - Value above quantitation range



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Houston, Texas 77099
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Chain of Custody Form

Page 1 of 3

3352 128th Avenue
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(Tel) 616.399.6070
(Fax) 616.399.6185

e-Lab Project Manager:

e-Lab Work Order #: 1708647

Customer Information

Project Information

Parameter/Method Request for Analysis

Purchase Order		Project Name	Big Thicket National Preserve	A	BTEX (8021)
Work Order		Project Number	7007-0001	B	TPH (TX 1005)
Company Name	SKA Consulting, L.P.	Bill To Company	SKA Consulting, L.P.	C	PAH (8270) Low-Level (HOLD)
Send Report To	Adam Taylor	Invoice Attn	Adam Taylor	D	Moisture
Address	10260 Westheimer	Address	10260 Westheimer	E	TPH TX 1006 (HOLD)
	Suite 605		Suite 605	F	
City/State/Zip	Houston, TX 77042	City/State/Zip	Houston, TX 77042	G	
Phone	(713) 266-6056	Phone	(713) 266-6056	H	
Fax	(713) 266-0996	Fax	(713) 266-0996	I	
e-Mail Address		e-Mail Address		J	

No.	Sample Description	Date	Time	Matrix	Pres.	# Bottles	A	B	C	D	E	F	G	H	I	J	Hold
1	SB-1 0'-1'	8-28-07	1014	Soil	none	2	X	X	X	X	X						C, E
2	SB-1 2'-3'		1016				X	X	X	X	X						C, E
3	SB-2 0'-1'		1020				X	X	X	X	X						C, E
4	SB-2 1'-2'		1023				X	X	X	X	X						C, E
5	SB-2 2'-3'		1027				X	X	X	X	X						C, E
6	SB-3 0'-1'		1046				X	X	X	X	X						C, E
7	SB-3 2'-3'		1051				X	X	X	X	X						C, E
8	SB-4 0'-1'		1055				X	X	X	X	X						C, E
9	SB-4 2'-3'		1100				X	X	X	X	X						C, E
10	SB-5 0'-1'		1105				X	X	X	X	X						C, E

Sampler(s) Please Print & Sign Scott LePier		Shipment Method lab pickup		Required Turnaround Time: (Check Box) <input type="checkbox"/> Std 10 WK Days <input checked="" type="checkbox"/> 5 WK Days <input type="checkbox"/> 2 WK Days <input type="checkbox"/> 24 Hour		Results Due Date:	
Relinquished by:	Date: 8-29-07	Time: 11:45	Received by:	Date: 8/29/07	Time: 12:30	Notes: 5 Day TAT.	
Relinquished by:	Date: 8/29/07	Time: 13:30	Received by (Laboratory):	e-Lab Analytical Cooler ID: Cooler Temp: QC Package: (Check One Box Below)			
Logged by (Laboratory):	Date:	Time:	Checked by (Laboratory):	<input checked="" type="checkbox"/> Level II Std QC <input type="checkbox"/> TRRP CheckList			
				<input type="checkbox"/> Level III Std QC/Raw Data <input type="checkbox"/> TRRP Level IV			
				<input type="checkbox"/> Level IV SW846/CLP			
				<input type="checkbox"/> Other			
Preservative Key: 1-HCl 2-HNO ₃ 3-H ₂ SO ₄ 4-NaOH 5-Na ₂ S ₂ O ₃ 6-NaHSO ₄ 7-Other 8-4°C 9-5035							

Note: 1. Any changes must be made in writing once samples and COC Form have been submitted to e-Lab Analytical, Inc.

2. Unless otherwise agreed in a formal contract, services provided by e-Lab Analytical, Inc. are expressly limited to the terms and conditions stated on the reverse.

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Chain of Custody Form

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e-Lab Project Manager:

e-Lab Work Order #: 1708647

Customer Information

Purchase Order	
Work Order	
Company Name	SKA Consulting, L.P.
Send Report To	Adam Taylor
Address	10260 Westheimer Suite 605
City/State/Zip	Houston, TX 77042
Phone	(713) 266-6056
Fax	(713) 266-0996
e-Mail Address	

Project Information

Project Name	Big Thicket National Preserve
Project Number	7007-0001
Bill To Company	SKA Consulting, L.P.
Invoice Attn	Adam Taylor
Address	10260 Westheimer Suite 605
City/State/Zip	Houston, TX 77042
Phone	(713) 266-6056
Fax	(713) 266-0996
e-Mail Address	

Parameter/Method Request for Analysis

A	BTEX (8021)
B	TPH (TX 1005)
C	PAH (8270) Low-Level (HOLD)
D	Moisture
E	TPH TX 1006 (HOLD)
F	
G	
H	
I	
J	

No.	Sample Description	Date	Time	Matrix	Pres.	# Bottles	A	B	C	D	E	F	G	H	I	J	Hold
1	SB-5 2'-3'	8-28-07	1112	Soil	none	2	X	X	X	X	X						HOLD ENTIRE SAMPLE C, E
2	SB-6 0'-1'		1118				X	X	X	X	X						C, E
3	SB-6 2'-3'		1124				X	X	X	X	X						HOLD ENTIRE SAMPLE C, E
4	SB-7 0'-1'		1133				X	X	X	X	X						C, E
5	SB-7 2'-3'		1137				X	X	X	X	X						HOLD ENTIRE SAMPLE C, E
6	SB-8 0'-1'		1153				X	X	X	X	X						C, E
7	SB-8 2'-3'		1158				X	X	X	X	X						HOLD ENTIRE SAMPLE C, E
8	SB-9 0'-1'		1201				X	X	X	X	X						C, E
9	SB-9 2'-3'		1206				X	X	X	X	X						HOLD ENTIRE SAMPLE C, E
10	SB-10 0'-1'		1303				X	X	X	X	X						C, E

Sampler(s) Please Print & Sign <u>Scott Lofler</u>		Shipment Method <u>Lab pickup</u>		Required Turnaround Time: (Check Box) <input type="checkbox"/> 5-10 WK Days <input checked="" type="checkbox"/> 5 WK Days <input type="checkbox"/> 2 WK Days <input type="checkbox"/> 24 Hour		Results Due Date:	
Relinquished by: <u>[Signature]</u>	Date: <u>8-29-07</u>	Time: <u>11:45</u>	Received by: <u>[Signature]</u>	Date: <u>8/29/07</u>	Time: <u>13:30</u>	Notes: 5 Day TAT.	
Relinquished by: <u>[Signature]</u>	Date: <u>8/29/07</u>	Time: <u>13:30</u>	Received by (Laboratory): <u>[Signature]</u>	Date: <u>8/29/07</u>	Time: <u>13:30</u>	e-Lab Analytical Cooler ID: _____ Cooler Temp: _____	
Logged by (Laboratory): <u>[Signature]</u>						QC Package: (Check One Box Below) <input checked="" type="checkbox"/> Level II Std QC <input type="checkbox"/> TRRP Checklist <input type="checkbox"/> Level III Std QC/Raw Data <input type="checkbox"/> TRRP Level IV <input type="checkbox"/> Level IV SW846/CLP <input type="checkbox"/> Other _____	
Preservative Key: 1-HCl 2-HNO ₃ 3-H ₂ SO ₄ 4-NaOH 5-Na ₂ S ₂ O ₃ 6-NaHSO ₄ 7-Other 8-4°C 9-5035							

Note: 1. Any changes must be made in writing once samples and COC Form have been submitted to e-Lab Analytical, Inc.

2. Unless otherwise agreed in a formal contract, services provided by e-Lab Analytical, Inc. are expressly limited to the terms and conditions stated on the reverse.

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e-Lab Project Manager:

e-Lab Work Order #: 0708647

Customer Information

Project Information

Parameter/Method Request for Analysis

Purchase Order		Project Name	Big Thicket National Preserve	A	BTEX (8021)
Work Order		Project Number	7007-0001	B	TPH (TX 1005)
Company Name	SKA Consulting, L.P.	Bill To Company	SKA Consulting, L.P.	C	PAH (8270) Low-Level (HOLD)
Send Report To	Adam Taylor	Invoice Attn	Adam Taylor	D	Moisture
Address	10260 Westheimer Suite 605	Address	10260 Westheimer Suite 605	E	TPH TX 1006 (HOLD)
City/State/Zip	Houston, TX 77042	City/State/Zip	Houston, TX 77042	F	
Phone	(713) 266-6056	Phone	(713) 266-6056	G	
Fax	(713) 266-0996	Fax	(713) 266-0996	H	
e-Mail Address		e-Mail Address		I	
				J	

No.	Sample Description	Date	Time	Matrix	Pres.	# Bottles	A	B	C	D	E	F	G	H	I	J	Hold
1	SB-10 2'-3'	8-28-07	1309	Soil	none	2	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>						HOLD ENTIRE SAMPLE C,E
2	TMW-1 0'-1'	↓	1230	↓	↓	↓	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>						C,E
3	TMW-1 4'-5'	↓	1242	↓	↓	↓	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>						C,E
4	PIT 1	↓	1350	↓	↓	↓	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>						C,E
5	PIT 2	↓	1355	↓	↓	↓	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>						C,E
6																	
7																	
8																	
9																	
10																	

Sampler(s) Please Print & Sign

Shipment Method

Required Turnaround Time: (Check Box)

Results Due Date:

Scott LePier Lab pickup Std 10 WK Days ☒ 5 WK Days ☐ Other ☐ 2 WK Days ☐ 24 Hour

Relinquished by: [Signature] Date: 8-29-07 Time: 11:45 Received by: [Signature] Date: 8/29/07 Time: 13:30

Relinquished by: [Signature] Date: 8/29/07 Time: 13:30 Received by: [Signature] Date: 8/29/07 Time: 13:30

Logged by Laboratory: [Signature] Date: 8/29/07 Time: 13:30 Checked by Laboratory: [Signature] Date: 8/29/07 Time: 13:30

Preservative Key: 1-HCl 2-HNO₃ 3-H₂SO₄ 4-NaOH 5-Na₂S₂O₃ 6-NaHSO₄ 7-Other 8-4°C 9-5035

Notes: 5 Day TAT.

e-Lab Analytical Cooler ID: _____

Cooler Temp: _____

QC Package: (Check One Box Below)

☒ Level II Std QC ☐ TRRP CheckList

☐ Level III Std QC/Raw Data ☐ TRRP Level IV

☐ Level IV SW846/CLP

☐ Other _____

Note: 1. Any changes must be made in writing once samples and COC Form have been submitted to e-Lab Analytical, Inc.

2. Unless otherwise agreed in a formal contract, services provided by e-Lab Analytical, Inc. are expressly limited to the terms and conditions stated on the reverse.

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Sample Receipt Checklist

Client Name: SKA

Date/Time Received: 8/28/2007 11:45:00 AM

Work Order Number 0708647

Received by: JLC

Checklist completed by

Signature

Date

Reviewed by

Initials

Date

Matrix:

Carrier name: E-Lab

Shipping container/cooler in good condition?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Not Present <input type="checkbox"/>
Custody seals intact on shipping container/cooler?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Not Present <input checked="" type="checkbox"/>
Custody seals intact on sample bottles?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Not Present <input checked="" type="checkbox"/>
Chain of custody present?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Chain of custody signed when relinquished and received?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Chain of custody agrees with sample labels?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Samples in proper container/bottle?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sample containers intact?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sufficient sample volume for indicated test?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
All samples received within holding time?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Container/Temp Blank temperature in compliance?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Temperature(s)/Thermometer(s):	<u>2.0c</u>	<u>002</u>	
Water - VOA vials have zero headspace?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	No VOA vials submitted <input checked="" type="checkbox"/>
Water - pH acceptable upon receipt?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	N/A <input checked="" type="checkbox"/>

Adjusted? _____ Checked by _____

Login Notes: No trip blank was received.

Client contacted: _____ Date contacted: _____ Person contacted: _____

Contacted by: _____ Regarding: _____

Comments: _____

Corrective Action: _____



e-Lab Analytical, Inc.

10450 Stancliff Rd, Suite 210 Houston, Texas 77099-4338 (281) 530-5656 Fax (281) 530-5887

September 07, 2007

Adam Taylor
SKA Consulting, L.P.
10260 Westheimer
Suite 605
Houston, TX 77042

Tel: (713) 266-6056
Fax: (713) 266-0996

Re: 7007-0001/Big Thicket National Preserve

Work Order : **0708649**

Dear Adam Taylor,

e-Lab Analytical, Inc. received 1 sample on 8/29/2007 01:30 PM for the analyses presented in the following report.

The analytical data provided relates directly to the samples received by e-Lab Analytical, Inc. and for only the analyses requested. Results are expressed as "as received" unless otherwise noted.

QC sample results for this data met EPA or laboratory specifications except as noted in the Case Narrative or as noted with qualifiers in the QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained by e-Lab Analytical, Inc. Samples will be disposed in 30 days unless storage arrangements are made.

The total number of pages in this report is 11.

If you have any questions regarding this report, please feel free to call me.

Sincerely,

Electronically approved by: Rebecca L. Hunt

Jeffrey L Croston
Project Manager



Certificate No: T104704231-06-TX

e-Lab Analytical, Inc.

Date: *September 07, 2007*

CLIENT: SKA Consulting, L.P.
Project: 7007-0001/Big Thicket National Preserve
Work Order: 0708649

Work Order Sample Summary

<u>Lab Samp ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Tag Number</u>	<u>Collection Date</u>	<u>Date Received</u>	<u>Hold</u>
0708649-01	TMW-1	Water		8/28/2007 15:40	8/29/2007 13:30	<input type="checkbox"/>

e-Lab Analytical, Inc.**Date:** September 07, 2007

CLIENT: SKA Consulting, L.P.
Work Order: 0708649
Project: 7007-0001/Big Thicket National Preserve
Lab ID: 0708649-01

Client Sample ID: TMW-1
Collection Date: 8/28/2007 3:40:00 PM
Matrix: WATER

Analyses	Result	Qual	SDL	ML	Units	Dilution Factor	Date Analyzed
LOW-LEVEL TEXAS TPH			Method: TX1005		Prep: TX1005PR / 8/30/07		Analyst: JFT
nC6 to nC12	U		0.20	0.50	mg/L	1	9/4/2007
>nC12 to nC28	U		0.20	0.50	mg/L	1	9/4/2007
>nC28 to nC35	U		0.20	0.50	mg/L	1	9/4/2007
Total Petroleum Hydrocarbon	U		0.20	0.50	mg/L	1	9/4/2007
Surr: 2-Fluorobiphenyl	102			70-130	%REC	1	9/4/2007
Surr: Trifluoromethyl benzene	101			70-130	%REC	1	9/4/2007
BTEX, WATER			Method: SW8021B				Analyst: WLR
Benzene	U		0.00020	0.0010	mg/L	1	8/30/2007
Toluene	U		0.00020	0.0010	mg/L	1	8/30/2007
Ethylbenzene	U		0.00020	0.0010	mg/L	1	8/30/2007
Xylenes, Total	U		0.00050	0.0030	mg/L	1	8/30/2007
Surr: 4-Bromofluorobenzene	95.4			77-129	%REC	1	8/30/2007
Surr: Trifluorotoluene	96.9			75-130	%REC	1	8/30/2007

Qualifiers:

U - Analyzed for but Not Detected

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

* - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits

P - Dual Column results RPD > 40%

E - Value above quantitation range

H - Analyzed outside of Hold Time

Test Code: BTEX_W
Test Number: SW8021B
Test Name: BTEX, Water
Matrix: Aqueous

Units: mg/L

**METHOD DETECTION /
REPORTING LIMITS**

Type	Analyte	CAS	MDL	Unadjusted MQL
A	Benzene	71-43-2	0.0002	0.001
A	Ethylbenzene	100-41-4	0.0002	0.001
A	Toluene	108-88-3	0.0002	0.001
M	Xylenes, Total	1330-20-7	0.0005	0.003
S	Surr: 4-Bromofluorobenzene	460-00-4	0.0002	0.001
S	Surr: Trifluorotoluene	98-08-8	0.0002	0.001

Test Code: TX1005_W_Low

Test Number: TX1005

Test Name: Low-level Texas TPH

Matrix: Aqueous Units: mg/L

**METHOD DETECTION /
REPORTING LIMITS**

Type	Analyte	CAS	MDL	Unadjusted MQL
A	>nC12 to nC28	TPHDRO	0.2	0.5
A	>nC28 to nC35	10W40MOTO	0.2	0.5
A	nC6 to nC12	TPHGRO	0.2	0.5
M	Total Petroleum Hydrocarbon	TPH	0.2	0.5
S	Surr: 2-Fluorobiphenyl	321-60-8	0	0
S	Surr: Trifluoromethyl benzene	98-08-8	0	0

e-Lab Analytical, Inc.

Date: Sep 07 2007

CLIENT: SKA Consulting, L.P.

QC BATCH REPORT

Work Order: 0708649

Project: 7007-0001/Big Thicket National Preserve

Batch ID: 25318

Instrument ID FID-2

Method: TX1005

MBLK	Sample ID: FBLKW1-070830				Units: mg/L			Analysis Date: 09/04/07 12:45		
Client ID:	Run ID: FID-2_070830A				SeqNo: 1202932	Prep Date: 8/30/2007		DF: 1		
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
nC6 to nC12	U	0.50								
>nC12 to nC28	U	0.50								
>nC28 to nC35	U	0.50								
Total Petroleum Hydrocarbon	U	0.50								
Surr: 2-Fluorobiphenyl	4.482	0	5	0	89.6	70-130	0			
Surr: Trifluoromethyl benzene	4.518	0	5	0	90.4	70-130	0			

LCS	Sample ID: FLCSW1-070830				Units: mg/L			Analysis Date: 09/04/07 13:22		
Client ID:	Run ID: FID-2_070830A				SeqNo: 1202933	Prep Date: 8/30/2007		DF: 1		
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
nC6 to nC12	32.89	0.50	33.3	0	98.8	75-125	0			
>nC12 to nC28	31.6	0.50	33.3	0	94.9	75-125	0			
Surr: 2-Fluorobiphenyl	5.597	0	5	0	112	70-130	0			
Surr: Trifluoromethyl benzene	5.389	0	5	0	108	70-130	0			

LCSD	Sample ID: FLCSDW1-070830				Units: mg/L			Analysis Date: 09/04/07 13:59		
Client ID:	Run ID: FID-2_070830A				SeqNo: 1202935	Prep Date: 8/30/2007		DF: 1		
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
nC6 to nC12	33.08	0.50	33.3	0	99.3	75-125	32.89	0.569	20	
>nC12 to nC28	32.71	0.50	33.3	0	98.2	75-125	31.6	3.45	20	
Surr: 2-Fluorobiphenyl	5.543	0	5	0	111	70-130	5.597	0.966	20	
Surr: Trifluoromethyl benzene	5.351	0	5	0	107	70-130	5.389	0.7	20	

MS	Sample ID: 0708546-06BMS				Units: mg/L			Analysis Date: 09/05/07 0:13		
Client ID:	Run ID: FID-2_070830A				SeqNo: 1203735	Prep Date: 8/30/2007		DF: 1		
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
nC6 to nC12	37.98	0.50	33.3	1.015	111	75-125	0			
>nC12 to nC28	33.15	0.50	33.3	0.8144	97.1	75-125	0			
Surr: 2-Fluorobiphenyl	5.371	0	5	0	107	70-130	0			
Surr: Trifluoromethyl benzene	5.422	0	5	0	108	70-130	0			

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

O - Referenced analyte value is > 4 times amount spiked

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

P - Dual Column results percent difference > 40%

B - Analyte detected in assoc. Method Blank

U - Analyzed for but not detected

E - Value above quantitation range

CLIENT: SKA Consulting, L.P.
Work Order: 0708649
Project: 7007-0001/Big Thicket National Preserve

QC BATCH REPORT

Batch ID: **25318** Instrument ID **FID-2** Method: **TX1005**

MSD	Sample ID: 0708546-06BMSD				Units: mg/L			Analysis Date: 09/05/07 12:50		
Client ID:	Run ID: FID-2_070830A				SeqNo: 1203737	Prep Date: 8/30/2007		DF: 1		
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
nC6 to nC12	37.37	0.50	33.3	1.015	109	75-125	37.98	1.64	20	
>nC12 to nC28	36.85	0.50	33.3	0.8144	108	75-125	33.15	10.6	20	
<i>Surr: 2-Fluorobiphenyl</i>	5.499	0	5	0	110	70-130	5.371	2.35	20	
<i>Surr: Trifluoromethyl benzene</i>	4.481	0	5	0	89.6	70-130	5.422	19	20	

The following samples were analyzed in this batch:

0708649-01B

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

O - Referenced analyte value is > 4 times amount spiked

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

P - Dual Column results percent difference > 40%

B - Analyte detected in assoc. Method Blank

U - Analyzed for but not detected

E - Value above quantitation range

CLIENT: SKA Consulting, L.P.
Work Order: 0708649
Project: 7007-0001/Big Thicket National Preserve

QC BATCH REPORT

Batch ID: **R53898** Instrument ID **BTEX1** Method: **SW8021B**

MBLK	Sample ID: BBLKW1-083007			Units: µg/L				Analysis Date: 08/30/07 8:39		
Client ID:	Run ID: BTEX1_070830A			SeqNo: 1200098		Prep Date:		DF: 1		
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	U	1.0								
Toluene	U	1.0								
Ethylbenzene	U	1.0								
Xylenes, Total	U	3.0								
Surr: 4-Bromofluorobenzene	28.34	1.0	30	0	94.5	77-129	0			
Surr: Trifluorotoluene	28.19	1.0	30	0	94	75-130	0			

LCS	Sample ID: BLCSW1-083007			Units: µg/L				Analysis Date: 08/30/07 8:12		
Client ID:	Run ID: BTEX1_070830A			SeqNo: 1200097		Prep Date:		DF: 1		
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	20.15	1.0	20	0	101	77-126	0			
Toluene	20.87	1.0	20	0	104	80-124	0			
Ethylbenzene	21.57	1.0	20	0	108	76-125	0			
Xylenes, Total	63.17	3.0	60	0	105	79-124	0			
Surr: 4-Bromofluorobenzene	29.93	1.0	30	0	99.8	77-129	0			
Surr: Trifluorotoluene	28.48	1.0	30	0	94.9	75-130	0			

MS	Sample ID: 0708609-02AMS			Units: µg/L				Analysis Date: 08/30/07 10:03		
Client ID:	Run ID: BTEX1_070830A			SeqNo: 1200101		Prep Date:		DF: 1		
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	21.03	1.0	20	0	105	77-126	0			
Toluene	22.11	1.0	20	0	111	80-124	0			
Ethylbenzene	22.78	1.0	20	0	114	76-125	0			
Xylenes, Total	66.35	3.0	60	0	111	79-124	0			
Surr: 4-Bromofluorobenzene	29.19	1.0	30	0	97.3	77-129	0			
Surr: Trifluorotoluene	28.05	1.0	30	0	93.5	75-130	0			

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

O - Referenced analyte value is > 4 times amount spiked

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

P - Dual Column results percent difference > 40%

B - Analyte detected in assoc. Method Blank

U - Analyzed for but not detected

E - Value above quantitation range

CLIENT: SKA Consulting, L.P.
Work Order: 0708649
Project: 7007-0001/Big Thicket National Preserve

QC BATCH REPORT

Batch ID: R53898 Instrument ID BTEX1 Method: SW8021B

MSD	Sample ID: 0708609-02AMSD				Units: µg/L			Analysis Date: 08/30/07 10:29		
Client ID:	Run ID: BTEX1_070830A				SeqNo: 1200102		Prep Date:		DF: 1	
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	20.84	1.0	20	0	104	77-126	21.03	0.943	20	
Toluene	21.98	1.0	20	0	110	80-124	22.11	0.548	20	
Ethylbenzene	22.74	1.0	20	0	114	76-125	22.78	0.173	20	
Xylenes, Total	66.05	3.0	60	0	110	79-124	66.35	0.46	20	
Surr: 4-Bromofluorobenzene	29.79	1.0	30	0	99.3	77-129	29.19	2.05	20	
Surr: Trifluorotoluene	28.05	1.0	30	0	93.5	75-130	28.05	0	20	

The following samples were analyzed in this batch: 0708649-01A



10450 Stancliff Rd. #210
Houston, Texas 77099
(Tel) 281.530.5656
(Fax) 281.530.5887

Chain of Custody Form

Page 1 of 1

3352 128th Avenue
Holland, Michigan 49424
(Tel) 616.399.6070
(Fax) 616.399.6185

e-Lab Project Manager:

e-Lab Work Order #: 0709649

Customer Information		Project Information		Parameter/Method Request for Analysis												
Purchase Order		Project Name	Big Thicket National Preserve	A	BTEx (8021)											
Work Order		Project Number	7007-0001	B	TPH (TX 1005)											
Company Name	SKA Consulting, L.P.	Bill To Company	SKA Consulting, L.P.	C	PAH (8270) Low-Level											
Send Report To	Adam Taylor	Invoice Attn	Adam Taylor	D	Moisture											
Address	10260 Westheimer	Address	10260 Westheimer	E	TPH TX 1006 (HOLD)											
	Suite 605		Suite 605	F												
City/State/Zip	Houston, TX 77042	City/State/Zip	Houston, TX 77042	G												
Phone	(713) 266-6056	Phone	(713) 266-6056	H												
Fax	(713) 266-0996	Fax	(713) 266-0996	I												
e-Mail Address		e-Mail Address		J												

No.	Sample Description	Date	Time	Matrix	Pres.	# Bottles	A	B	C	D	E	F	G	H	I	J	Hold
1	TMW-1	8-28-07	1540	water	none	4	X	X			X						E
2																	
3																	
4																	
5																	
6																	
7																	
8																	
9																	
10																	

Sampler(s) Please Print & Sign Scott L. Lohr		Shipment Method lab pickup		Required Turnaround Time: (Check Box) <input type="checkbox"/> Std 70 WK Days <input checked="" type="checkbox"/> 5 WK Days <input type="checkbox"/> 2 WK Days <input type="checkbox"/> 24 Hour				Results Due Date:					
Relinquished by: [Signature]		Date: 8-29-07	Time: 11:45	Received by: [Signature]		Notes: 5 Day TAT.							
Relinquished by: [Signature]		Date: 8/29/07	Time: 13:30	Received by: [Signature]		e-Lab Analytical Cooler ID		Cooler Temp.		QC Package: (Check One Box Below) <input checked="" type="checkbox"/> Level II Std QC <input type="checkbox"/> TRRP Check List <input type="checkbox"/> Level III Std QC/Raw Data <input type="checkbox"/> TRRP Level IV <input type="checkbox"/> Level IV SW846/CLP <input type="checkbox"/> Other			
Logged by Laboratory:		Date:	Time:	Checked by (Laboratory):									
Preservative Key: 1-HCl 2-HNO ₃ 3-H ₂ SO ₄ 4-NaOH 5-Na ₂ S ₂ O ₃ 6-NaHSO ₄ 7-Other 8-4°C 9-5035													

Note: 1. Any changes must be made in writing once samples and COC Form have been submitted to e-Lab Analytical, Inc.

2. Unless otherwise agreed in a formal contract, services provided by e-Lab Analytical, Inc. are expressly limited to the terms and conditions stated on the reverse.

Copyright 2004 by e-Lab Analytical, Inc

Sample Receipt Checklist

Client Name: SKA

Date/Time Received: 8/29/2007 1:30:00 PM

Work Order Number 0708649

Received by: JLC

Checklist completed by

[Signature]
Signature

8/29/07
Date

Reviewed by

[Signature]
Initials

8/30/07
Date

Matrix:

Carrier name: E-Lab

Shipping container/cooler in good condition?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Not Present <input type="checkbox"/>
Custody seals intact on shipping container/cooler?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Not Present <input checked="" type="checkbox"/>
Custody seals intact on sample bottles?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Not Present <input checked="" type="checkbox"/>
Chain of custody present?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Chain of custody signed when relinquished and received?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Chain of custody agrees with sample labels?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Samples in proper container/bottle?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sample containers intact?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sufficient sample volume for indicated test?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
All samples received within holding time?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Container/Temp Blank temperature in compliance?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Temperature(s)/Thermometer(s):	<u>2.0c</u>	<u>002</u>	
Water - VOA vials have zero headspace?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	No VOA vials submitted <input type="checkbox"/>
Water - pH acceptable upon receipt?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	N/A <input checked="" type="checkbox"/>

Adjusted? _____ Checked by _____

Login Notes: No trip blank was received.

Client contacted: _____ Date contacted: _____ Person contacted: _____

Contacted by: _____ Regarding: _____

Comments: _____

Corrective Action _____