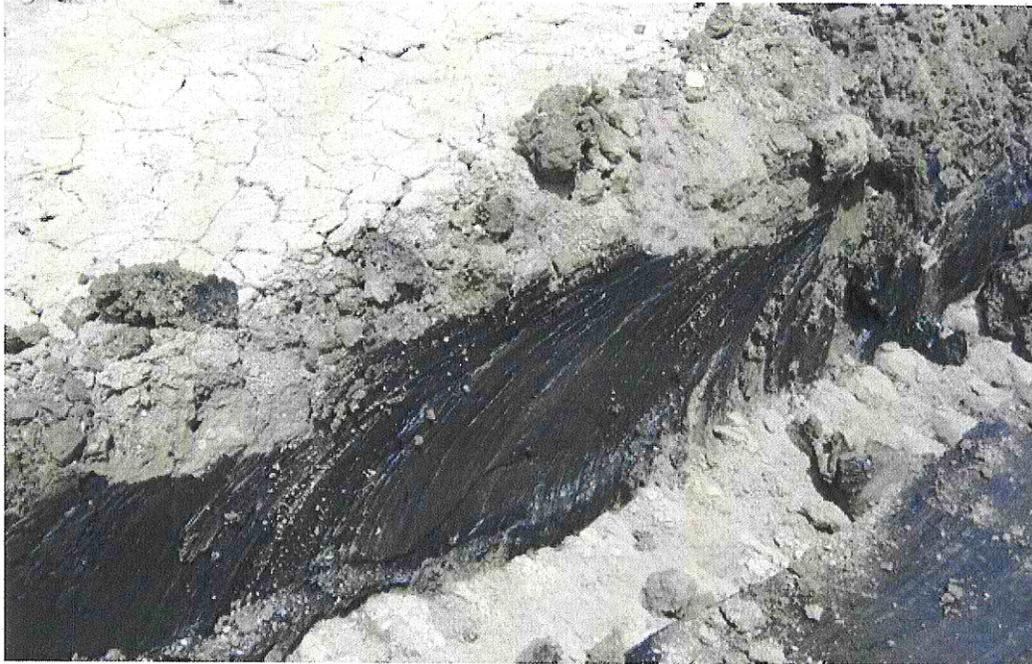


**DISPOSAL PIT CHARACTERIZATION REPORT  
STEVE'S OILFIELD SERVICES, INC.  
KLEBERG COUNTY, TEXAS**



**TERRACON PROJECT NO. 92067147**

*PREPARED FOR:*



**RAILROAD COMMISSION OF TEXAS**

*BY:*

**Terracon**  
Consulting Engineers & Scientists

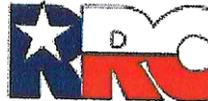
August 2006

**DISPOSAL PIT CHARACTERIZATION REPORT**

**STEVE'S OILFIELD SERVICES, INC.  
NEAR THE INTERSECTION OF US HWY 77 & FM 2045  
KLEBERG COUNTY, TEXAS**

**Terracon Project No. 92067147  
August 2006**

Prepared for:



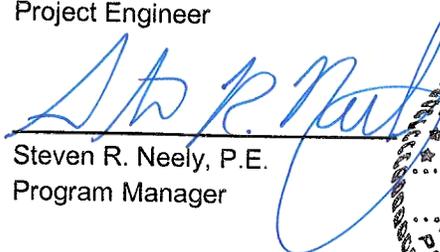
**RAILROAD COMMISSION OF TEXAS  
Oil and Gas Division  
1701 North Congress  
Austin, Texas**

Prepared by:

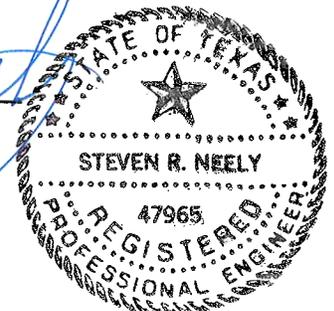
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## **1.0 INTRODUCTION**

Terracon Consultants, Inc. (Terracon) has conducted a limited site investigation to characterize the waste pit at the Steve's Oilfield Services, Inc. site for closure purposes (hereinafter, the site). Figure 1 presents a Site Vicinity Map that shows the general site location and surrounding features. Figure 2 shows the layout and orientation of the pit. Terracon's scope of services followed the work tasks described in the Work Order for this project dated February 24, 2006.

The objective of the limited site investigation was to collect sufficient data to quantify and characterize the pit (including the berms), and make an initial assessment as to whether or not groundwater has been impacted. This report describes the activities performed to characterize the pit, results of our initial assessment of the site and the engineering analysis performed.

## **2.0 SITE BACKGROUND**

The Railroad Commission of Texas (RRC) granted authority in November 1981 to maintain and use this unlined pit at the referenced facility for the disposal of fresh water based drilling fluid. Subsequent inspections revealed a high fluid chloride content (8,500 parts per million (ppm) to 12,000 ppm). An inspection by the RRC in July 1989 concluded the pit had reached its useful life capacity (190,000 barrel capacity per Form H-11) and should be dewatered and backfilled/closed. In May 1990 the RRC issued a Cancellation of Authority to Maintain and Use the pit.

Subsurface sampling was performed by the RRC in November 2004 using a backhoe. Soft ground conditions were encountered within the pit, limiting sampling at that time. The samples that were collected from within the pit revealed sticky brown to dark gray clay to a depth of 24 inches, the maximum depth sampled. Laboratory analysis of the samples indicated concentrations of total petroleum hydrocarbons (TPH), benzene, toluene, xylenes, and ethylbenzene (BTEX) and resource conservation and recovery act (RCRA) metals lead and barium. No volatile organic compounds (VOCs) or semi-volatile organic compounds (SVOCs) were detected.

Based on the field observations, the waste material in the pit appears to be similar throughout the pit. The trapezoidal shaped pit has a surface area of approximately 1.5 acres. Figure 2 shows the approximate layout of the pit. The pit is unlined and has an earthen berm around it. The height of the berm is approximately 7 to 8 feet above the existing grade outside the pit and the crest-width is approximately 20 feet. Parts of the berm are heavily vegetated. The bottom of the pit is approximately 11 to 12 feet below the top of berm. Some sloughing of the inside slope of the berm has occurred, resulting in partial filling of the pit on the southern berm area. No standing water was observed within the pit. The pit surface was dry with desiccation cracks at the time of our field activities in April 2006. Representative site photographs are included in Appendix A.

## **3.0 FIELD ACTIVITIES**

Mr. Krishna Jonnalagadda, staff environmental engineer with Terracon was present for the field activities which were conducted on April 11 and 12 of 2006. Mr. Leroy Staiger with the RRC Corpus District was present for the site reconnaissance, mapping, and the field activities. The fieldwork was performed

following health and safety protocols presented in the Site Health and Safety Plan prepared for the project by Terracon. A brief description of each phase of the field activities is provided below.

### **3.1 Site Reconnaissance and Mapping**

The site is located on the outskirts of Kingsville in Kleberg County, Texas, approximately 2 miles east on FM 2045 from the intersection of US Highway 77 and FM 2045 (See Figure 1). The site is currently secured with a locking gate. It appears that the site has been used over the years for unauthorized dumping as is evident from debris and abandoned frac tanks onsite.

Key physical features of the pit were mapped, including the approximate pit boundary, and relative surface elevations for developing a site plan. The site mapping was accomplished using an auto level, measuring wheel, and tape measure. Relative elevations of the key site features, e.g. top of the bank, toe of the outside slope and the pit surface were obtained using the auto level. Figure 2 presents a site plan developed from the mapping information collected in the field and aerials obtained from the Texas Natural Resources Information Systems (TNRIS) - *the year of the aerials is 2004*.

### **3.2 Pit Sampling**

Prior to starting the field activities, a sampling grid was established across the pit for profiling purposes. Based on the geometry of the pit, 11 sampling points were roughly spaced about 75 feet apart, with the exception of two borings spaced roughly 150 feet (See Figure 3).

Of the 11 sampling points, six were advanced using a track-mounted all terrain vehicle (ATV) direct push technology (DPT) rig (Geoprobe Model No. 6620 DT). Due to soft conditions encountered within the pit, the remaining five sampling points were investigated utilizing a combination of hand-dug exploratory test pits and probing. Samples collected from the soil borings advanced with the DPT rig were designated B-1 through B-15 and those collected from the exploratory test pits were designated Pit #1 through Pit #5 (See Figure 3). In addition, the sample designated "PitA" was collected from the area where the DPT rig got stuck (Photos 7 & 8, Appendix A). The probing was performed using a 5-foot long, 1-inch diameter PVC pipe and a 6 foot probing rod to estimate the approximate depth of the waste.

In the case of the DPT borings, soil cores were collected continuously from the ground surface to the terminal depth of the boring using sampler barrels with acetate liners. The soil cores were examined in the field for the presence of waste material intermixed with the soil and to document lithology, color, moisture content, and visual or olfactory evidence of waste impact. In addition, the samples were scanned with an organic vapor monitor (OVM) equipped with a photoionization detector (PID) to detect the presence of volatile organic vapors.

PID reading ranging between 0 and 24 ppm were observed in the soil cores recovered from the borings. Although low PID readings were observed, the subsurface conditions included highly viscous black colored waste material (gel like consistency). The low PID readings are suspected to be due to the age of the material and its proximity to the surface. The underlying natural soil consisted of silty clay and sandy clays. Detailed lithologic descriptions are presented on the soil boring logs in Appendix B. In addition, we attempted to measure the shear strength of the material in the pit using a hand held Torvane device; however, the waste material was too soft to obtain representative readings.

The soil cuttings along with bentonite chips were used to plug the boreholes. Groundwater was not encountered within the depths investigated in the pit.

Attempts were made on the interior (softer areas) of the pit to use wooden planks to provide a working platform for the DPT. The surface had a crust and was hard enough to walk on, but not firm enough to support the DPT rig. At these locations DPT was abandoned and probing was performed at the established grid points using a 1-inch diameter PVC pipe and the utility probe rod. In addition to probing, we attempted to push the acetate liner/sampler into the waste material by hand to obtain samples. However, we were not able to retain the sample in the liner upon its removal due to the viscous nature of the waste. Therefore, sampling these grid points was performed by hand dug exploratory pits. The test pits were dug using a sharp shooter shovel to a depth of approximately 1 to 2 feet below the waste surface. The waste material appeared to be consistent and therefore a sample was collected from a depth of approximately 2 feet below the waste surface.

Probing provided information on the depth of the pit (i.e. bottom), firm layers within the waste profile, and the general consistency of the waste material. Refusal to probing was uniformly encountered across the pit at a depth of approximately 4 ft below the surface and was believed to be the bottom of the pit. A sample was collected from each test pit for laboratory analysis.

The soil/waste samples were collected in laboratory supplied jars for analytical laboratory testing. The samples were labeled, placed on ice in a cooler, and hand delivered to Anacon, Inc., in Houston, Texas for laboratory analysis. The analytical testing program is discussed in Section 4.0.

### **3.3 Berm Sampling**

In addition to sampling the pit, six borings B-4 and B-9 through B-13 were advanced through the berm to identify any intermixed waste. These borings were advanced to a depth of 21 feet below the top of the berm using the DPT rig. Soil cores were collected continuously from the ground surface to the terminal depth of the boring using sampler barrels with acetate liners. The soil cores were examined in the field for the presence of waste material intermixed with the berm soil and to document lithology, color, moisture content, and visual or olfactory evidence of waste impact. In addition, the samples were scanned with an OVM equipped with a PID to detect the presence of volatile organic vapors. No PID readings were observed in the soil samples recovered from the borings through the berm. The berm material consisted of sandy clays, clayey sands, and silty clays. Detailed lithologic descriptions of the borings are presented on the boring logs included as Appendix B. The geotechnical testing was performed on selected samples of the berm material for soil classification purposes and is discussed in Section 4.0.

In addition, Terracon attempted to measure the shear strength of berm soil in the field with a hand held Torvane device; however, the recovered samples did not have sufficient undisturbed sample integrity to obtain representative readings.

### **3.4 Temporary Groundwater Sampling Points (TSPs)**

Two soil borings (B-14 and B-15) were advanced outside the pit area for the purposes of installing a TSP to obtain groundwater samples.

Soil boring B-14 was advanced to a depth of approximately 33 feet below the ground surface. Although a two foot layer of silty sand was observed between 31 and 32 feet bgs, no groundwater was produced. The silty sand layer was underlain by a silty clay layer. Refusal was encountered below this silty clay layer at 33 feet bgs and the boring was terminated.

Soil boring B-15 could not be completed as a TSP due to encountering rig refusal at 23 feet bgs. Note that the ground surface elevation at B-15 is about 10 feet lower than that at B-14 and it appears that the refusal encountered was the same stratum where refusal was encountered in B-14.

Due to the expected soft surface conditions expected within the pit a smaller (lighter) rig was mobilized for this investigation, but as noted above it met early refusal when attempting to install the TSPs. We discussed our field findings with the RRC, and the option of mobilizing a larger rig. The consensus was, when considering the nature of the waste (i.e. its apparent low permeability and absence of free liquid) and the presence of underlying natural soil consisting of silty clay and sandy clay, mobilizing a larger rig to install the TSPs was not warranted at this time.

### **3.5 Waste Characterization**

The waste material encountered in the pit, below the dry and desiccated surface, was black and was highly viscous (sediment/solid).

The pit surface was covered with desiccated sediment/soil; probably material eroded over time from the surrounding berms. There was no standing water present on the surface of the pit at the time of our field activities. The waste in the pit was on average approximately 4 feet thick. The thickness of the waste was derived from the soil borings and probing discussed in Section 3.2. Based on the field sampling, the waste material encountered across the pit was visibly homogenous and has the consistency of heavy grease. The pit is partially filled with the berm material; probably from the sloughing and erosion that may have occurred over time. Figure 4 presents a generalized cross-section of the pit.

## **4.0 GEOTECHNICAL TESTING PROGRAM**

Selected samples of the berm material were tested at Terracon's geotechnical testing laboratory in Houston, Texas. The geotechnical testing performed was for soil classification purposes and included Atterberg Limits (ASTM D-4318), Moisture Content (ASTM D-2216), and the percent passing the 200 sieve (ASTM D-1140). The results of the geotechnical testing are summarized in Table 3, and are included on the boring logs in Appendix A.

Based on the results of the Atterberg Limits testing, the liquid limits of the berm soils range between 33 and 71, with plasticity indices ranging between 18 and 48. Therefore, the berm soils consist of clay (CH) and lean clay (CL) with sand. The berm material is suitable for use as capping material.

## 5.0 LABORATORY ANALYTICAL PROGRAM

The analytical program was developed to identify potential chemicals of concern (COCs) to provide initial characterization and delineation of the waste materials onsite. The analytical results are tabulated in Tables 1a, 1b, and 2, and the respective copies of the laboratory analytical reports are included as Appendix C.

The soil samples were analyzed for total petroleum hydrocarbons (TPH) using Texas Commission on Environmental Quality (TCEQ) test method TX1005, benzene, toluene, ethylbenzene and xylenes (BTEX) using Environmental Protection Agency (EPA) test method 8260B. Additionally, selected samples were analyzed for Resources Conservation and Recovery Act (RCRA) 8 metals using EPA test method 6020, volatile organic compounds (VOCs) using EPA test method 8260B, semi-volatile organic compounds (SVOCs) using EPA test method 8270C, and chlorides using EPA test method 300.

Other physical parameters analyzed include pH using EPA test method 9045C, specific conductance using ASTM test method E120.1, sodium absorption ratio (SAR) using test method from agricultural handbook (AG Handbook # 60).

The results of the analytical testing are discussed in the following section of this report.

## 6.0 INVESTIGATION RESULTS AND EVALUATION

Terracon compared the concentrations of the COCs detected to their respective Texas Risk Reduction Program (TRRP) Tier 1 PCLs, developed for a residential site with a 0.5-acre source area, or the Texas specific background concentration (TSBC) for metals as applicable.

BTEX constituents were not detected in the soil/waste samples above the laboratory sample quantitation limits, or their TRRP Tier 1 PCL. TPH constituents were detected in all the soil/waste samples analyzed with the exception of samples B-1 (14 to 15 feet bgs), B-4 (8-9 feet bgs), B-7 (5 feet bgs), B-8 (6 to 7 feet bgs) and the soil samples from the berm (B-9 through B-11 and B-13). TPH was detected as C<sub>6</sub> – C<sub>12</sub> and C<sub>12</sub> – C<sub>28</sub> carbon range organics; no concentrations were detected in the higher range organics (C<sub>28</sub> – C<sub>35</sub>). The TPH concentrations in the waste material typically exceeded the TRRP screening level, so to further assess the human health risk of the TPH impact, a site specific PCL was developed from the TPH fraction concentrations derived from the TX 1006 analysis. The PCL calculation is discussed below.

### ***Determination of Protective Concentration Level (PCL) for TPH***

Based on the observed consistency of the waste material and review of the chromatograms, the waste material encountered in the pit appears to be similar. The highest TPH concentrations were observed in the soil/waste sample from boring B-8. Therefore, site specific PCLs were developed using the TX 1006 results for sample B-8 (3 feet bgs) and waste sample Pit # 4 (2 feet bgs).

We utilized the "CALCULATION OF TIER 1 TPH MIXTURE PCL" worksheet developed by RRC to calculate the PCL assuming a < 0.5-acre source area. The TX 1006 calculation resulted in a "Max HI (Hazard Index) < 10" for the <sup>GW</sup>Soil<sub>ing</sub> pathway indicating that the leaching to groundwater pathway is effectively incomplete due to the relatively low solubility of the TPH mixture. Therefore, assuming the site

to be residential, the complete pathway would then be  $^{Total}Soil_{Comb}$  within the surface soil (< 15 ft bgs) and  $^{Air}Soil_{Inh-v}$  within the subsurface soil (>15 feet bgs). The TPH concentrations were therefore compared to the calculated area specific  $^{Total}Soil_{Comb}$  concentrations. **Based on this evaluation, it appears that the waste material represented by sample Pit #4 @ 3 feet bgs (5,815 mg/kg), is not impacted by TPH above the  $^{Total}Soil_{Comb}$  concentration (11,000 mg/kg). However, the total TPH concentration detected in soil/waste sample B-8 @ 3 feet bgs (34,700 mg/kg) exceeds the  $^{Total}Soil_{Comb}$  concentration of 13,000 mg/kg.**

Therefore, based on the TPH concentrations detected, active remediation appears to be required at the site. The site specific  $^{Total}Soil_{Comb}$  concentrations calculated as a part of this investigation may be used as the target levels to be achieved following remediation. A copy of the TPH Tier 1 PCL calculation is included in Appendix D.

The samples B-8 (3 feet bgs) and Pit # 4 (2 feet bgs) were additionally analyzed for RCRA metals. All of the eight RCRA metals were detected at concentrations above the laboratory sample quantitation limits. However, the arsenic, barium, lead and mercury were detected concentrations above the TRRP Tier 1 PCL established for  $^{GW}Soil_{Ing}$  pathway indicating possible that the leaching to groundwater.

VOCs were not detected at concentrations above the TRRP Tier 1 residential PCLs. However SVOCs 2-methylnaphthalene and naphthalene were detected at concentrations of 114 mg/kg and 31.5 mg/kg respectively, above their TRRP Tier 1  $^{GW}Soil_{Ing}$  PCLs of 17 mg/kg and 31 mg/kg respectively.

In addition, chloride concentrations ranging between 2,650 mg/kg and 15,200 mg/kg were observed in the soil/waste samples analyzed. Based on the high chloride concentration (generally > 3000 mg/kg), land spreading of the waste material may not be an applicable remediation alternative.

Physical parameters pH, specific conductance, and SAR were observed in the range of 7.56 to 8.98, 4,500 to 5,550  $\mu$ mhos/cm, and 19.7 to 30.8 respectively.

## 7.0 ENGINEERING AND FEASIBILITY ANALYSIS

### 7.1 Estimated Volumes

Terracon estimated the volume of waste in the pit. The estimated volume was calculated based on the measurements and observations made during the field activities. Volumes were calculated as a product of the approximate surface area of the pit times the average waste thickness. Note, no additional volume was added for the potential for waste or impacted soil below the pit bottom. The impacted waste area is identified in Figure 3 and typical cross-sections of the waste material are presented on Figure 4. The total volume of the waste material at the site is approximately 9,630 cubic yards (cy) in place.

The berm material does not appear to be impacted and may be reused for remediation purposes, e.g. mixing with the pit materials and/or cap material. The total volume of the berm material, reusable for remediation purposes is estimated to be 11, 500 cy in place.

Based on our volume calculations, it appears that the estimate volume of waste in the pit is less than the available volume of berm material. The surface configuration of the pit and the berms is very irregular,

primarily the result of either soils having been pushed into the pit or sloughing of the side slopes. Therefore, when using the above estimated volumes in estimating the cost of remediation, it should be done with caution and an understanding of how variations in these volumes may affect the final cost.

## 7.2 Evaluation of Closure Alternatives

The material in the pit is highly viscous and has a consistency similar to heavy grease. Two remedial options appear to be best suited for closing this pit. The first option is removal and off-site disposal at an appropriate landfill. The second option would be to improve the strength (support capacity) of the pit material so it could support an earthen cap, e.g. through in-situ solidification/stabilization of the pit material and/or a cap design using geosynthetic reinforcing. Note that in the current state the pit contents have no compressive strength as demonstrated by Photo 7 with rig stuck in the material.

Either of the above alternatives in our opinion could be engineered to perform satisfactorily, so cost will likely be a deciding factor. Detailed cost estimates need to be developed prior to choosing the applicable remediation alternative. Given the grease like nature of the material in the pit, and its chemical makeup, we recommend that a bench scale solidification/stabilization treatability study be performed to evaluate various admixtures and their results. Due to the viscous and cohesive nature of the waste, which can make it difficult to achieve thorough mixing, the ideal admixture will be one that lowers its moisture content and plasticity to a workable level for achieving in situ mixing. A field trial/ demonstration may also be necessary depending on the results achieved through the bench scale study.

## 8.0 CONCLUSIONS AND RECOMMENDATIONS

The conclusions and recommendations of this investigation are as follows:

- The material in the pit appeared relatively uniform and had the consistency of thick grease. The average depth of the waste was approximately 4 feet; the calculated total volume is approximately 9,630 cubic yards (in place).
- TPH was detected in the soil/waste material, however, it appears that the TPH concentrations are typically below the site specific Tier 1 PCL. The exception to this was at Boring B-8 at 3 feet bgs where the total TPH concentration detected was 34,700 mg/kg, which exceeds the TotalSoilComb concentration of 13,000 mg/kg.
- Based on the laboratory analysis performed, it appears that the site is not impacted with BTEX or VOC constituents above the TRRP PCLs.
- RCRA metals arsenic, barium, lead and mercury were detected at concentrations above the TRRP PCL established for <sup>GW</sup>Soil<sub>ing</sub> pathway.
- Chloride concentrations ranging between 2,650 mg/kg and 15,200 mg/kg were observed in the soil/waste samples analyzed. Based on the high chloride concentration (generally > 3000 mg/kg), land spreading of the waste material may not be an applicable remediation alternative.

- The berm material was found to be free of intermixed waste and consisted of clay (CH) and lean clay (CL) with sand; suitable for reuse as capping material. The estimated total volume of reusable soil from the berm is approximately 11,500 cubic yards (in place).
- Two closure options appear best suited for this site. The first option is removal and off-site disposal at an appropriate landfill. The second option is to improve the strength (support capacity) of the pit material so it can support an earthen cap, e.g. through in-situ solidification/stabilization of the pit material and/or a cap design using geosynthetic reinforcing. Either of the above alternatives in our opinion can be engineered to perform satisfactorily, so cost will likely be a deciding factor. We recommend that a bench scale solidification/stabilization treatability study be performed, and potentially a field trial/ demonstration before selecting an in situ mixing remedy.
- When using the estimated volumes reported herein, for example in estimating the cost of remediation, it should be done with caution and an understanding of how variations in these volumes may affect the final cost.

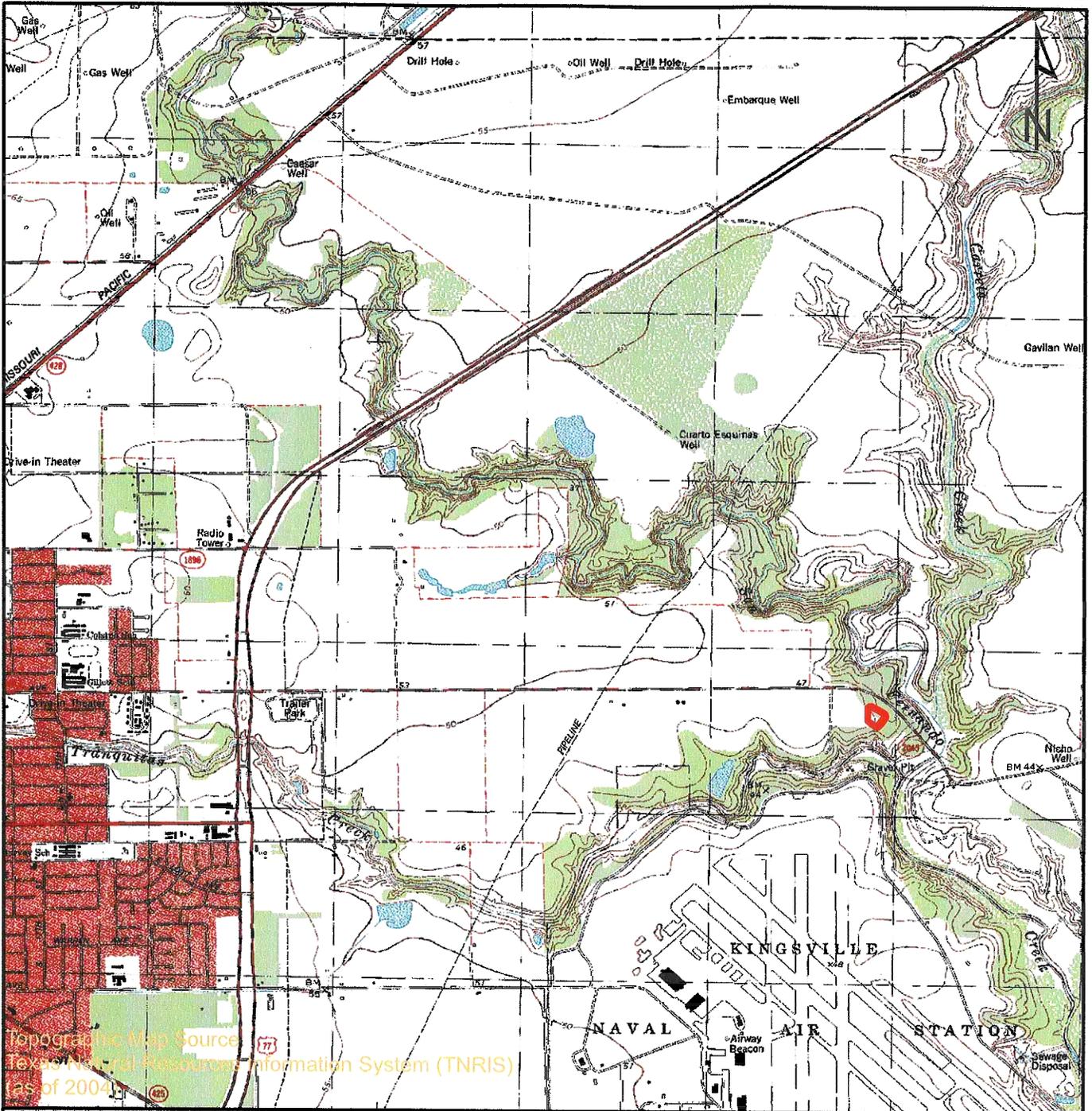
## **9.0 LIMITATIONS**

Terracon's services were performed in a manner consistent with generally accepted practices of the profession undertaken for similar studies in the same geographical area during the same time period. Terracon makes no warranties, either express or implied regarding the findings, conclusions or recommendations.

Findings, conclusions and recommendations resulting from these services are based upon information derived from the most recent on-site activities and other services performed under our authorized scope of work; such information is subject to change over time. Certain indicators of the presence of hazardous substances, petroleum products, or other constituents may have been latent, inaccessible, unobservable, nondetectable or not present during these services, and we cannot represent that the site contains no hazardous substances, toxic materials, petroleum products, or other latent conditions beyond those identified during this site investigation. Subsurface conditions may vary from those encountered at specific borings or groundwater sampling points during other surveys, tests, assessments, investigations or exploratory services; the data, interpretations, and our recommendations are based solely upon data obtained at the time and within the scope of these services.

This report is for the exclusive use of the RRC, and no other party shall have any right to rely on any services provided by Terracon without prior written consent.

# STEVE'S OILFIELD SERVICES, INC.



Topographic Map Source  
Texas Natural Resources Information System (TNRIS)  
as of 2004

## Legend

 Site Location

3,000 1,500 0 3,000  
Feet

1 inch equals 3,000 feet

FIGURE 1: SITE VICINITY MAP

STEVES OILFIELD SERVICES SITE  
KLEBERG COUNTY, TEXAS

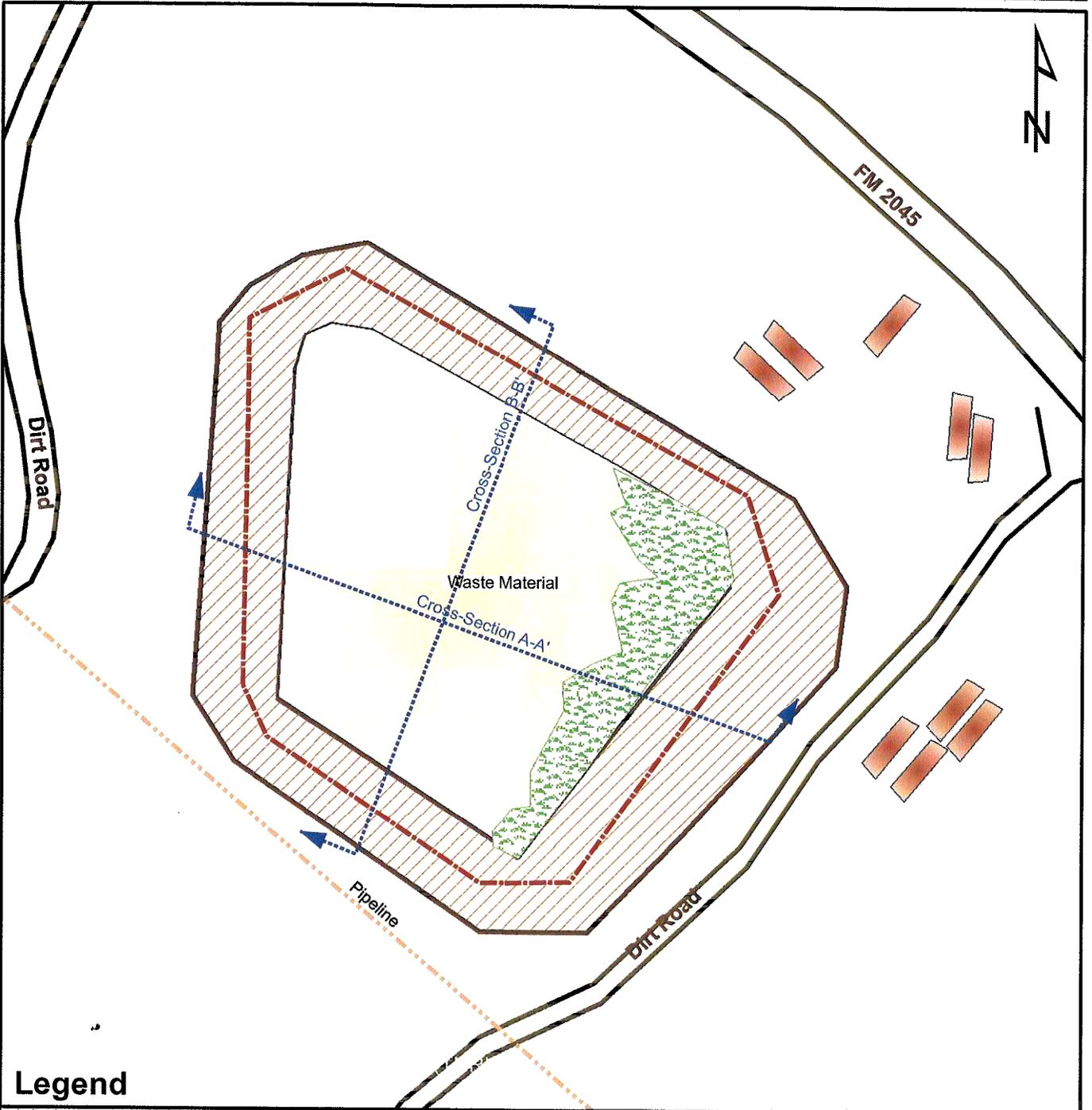
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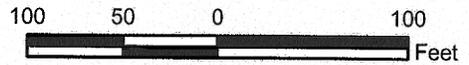
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# STEVE'S OILFIELD SERVICES, INC.



## Legend

- Fill Material
- Frac Tanks
- Berm
- Side Slope Sloughing
- Berm Center Line
- Cross Sections (Ref. Figure 4)



1 inch equals 100 feet

FIGURE 2: GENERAL SITE MAP

STEVE'S OILFIELD SERVICES SITE  
KLEBERG COUNTY, TEXAS

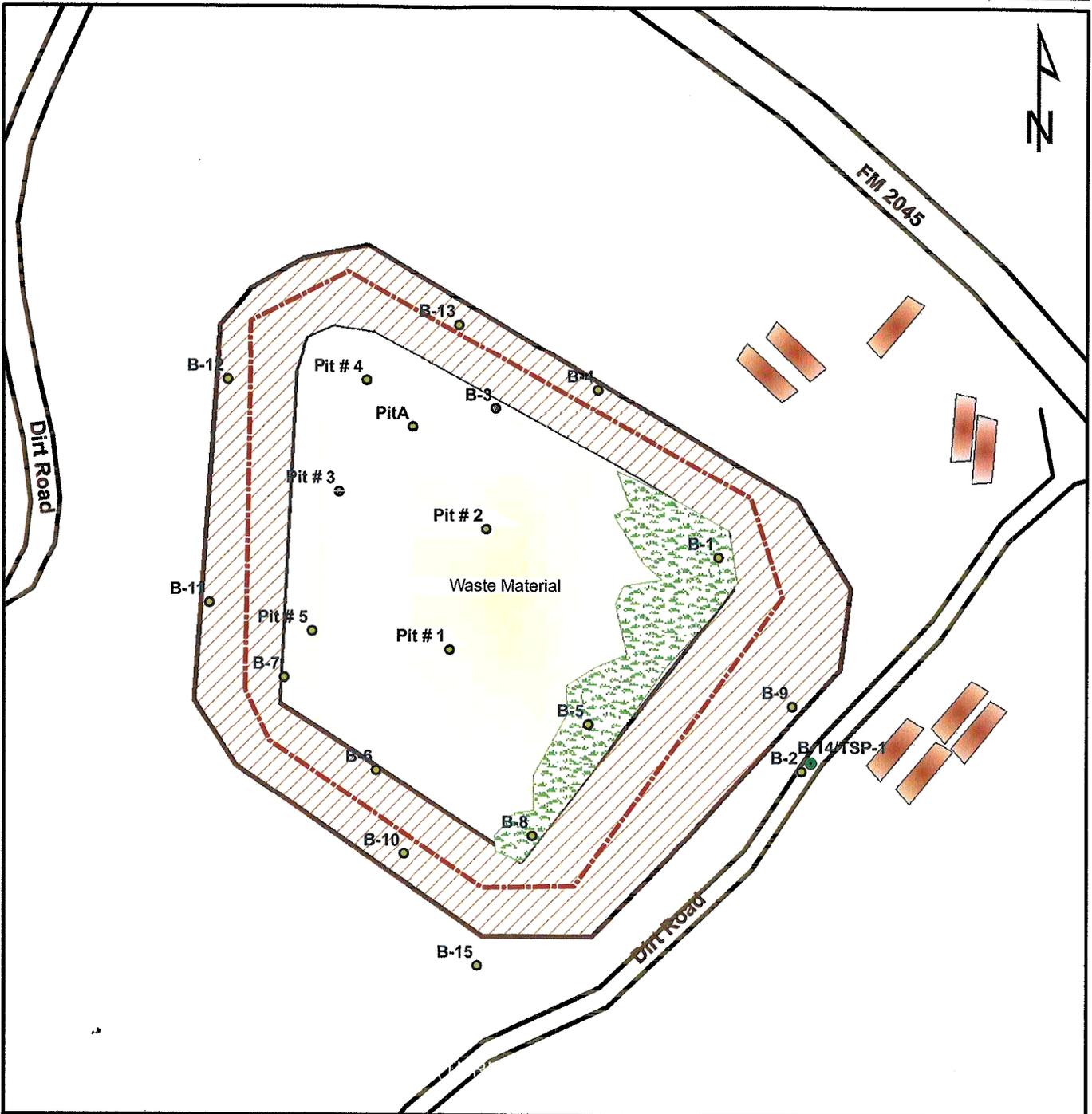
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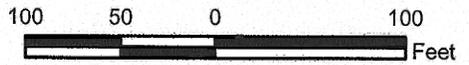
**Terracon**  
Consulting Engineers & Scientists

# STEVE'S OILFIELD SERVICES, INC.



## Legend

- |                   |  |                      |
|-------------------|--|----------------------|
| Soil Boring /TSPs |  | Fill Material        |
| • B-1             |  | Frac Tanks           |
| • B-14/TSP-1      |  | Berm                 |
|                   |  | Side Slope Sloughing |
|                   |  | Berm Center Line     |



1 inch equals 100 feet

FIGURE 3: SAMPLE LOCATION MAP

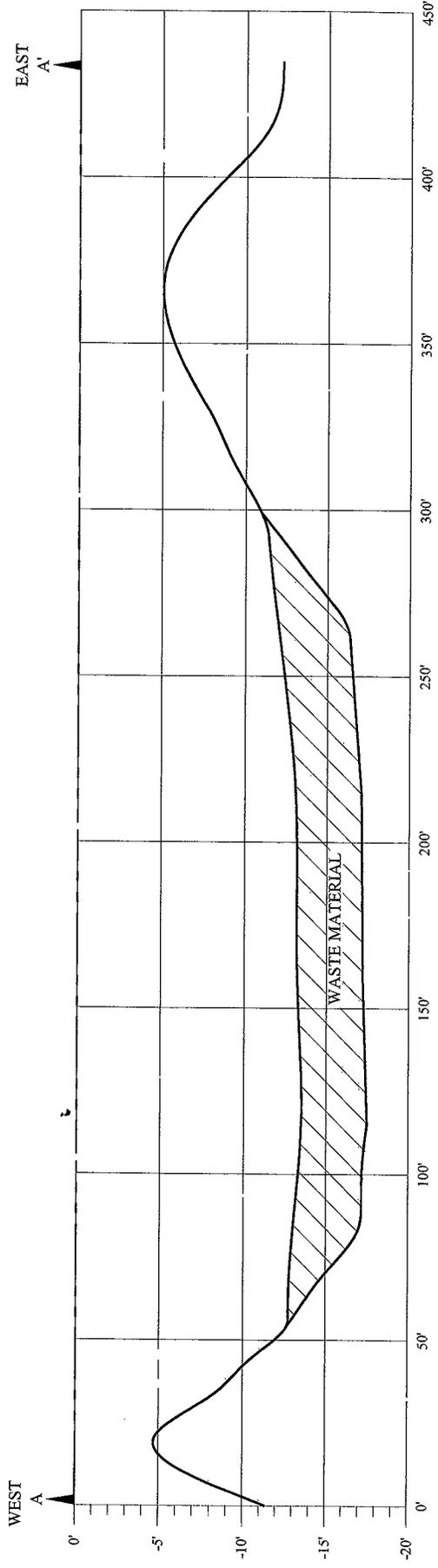
STEVES OILFIELD SERVICES SITE  
KLEBERG COUNTY, TEXAS

PREPARED FOR:

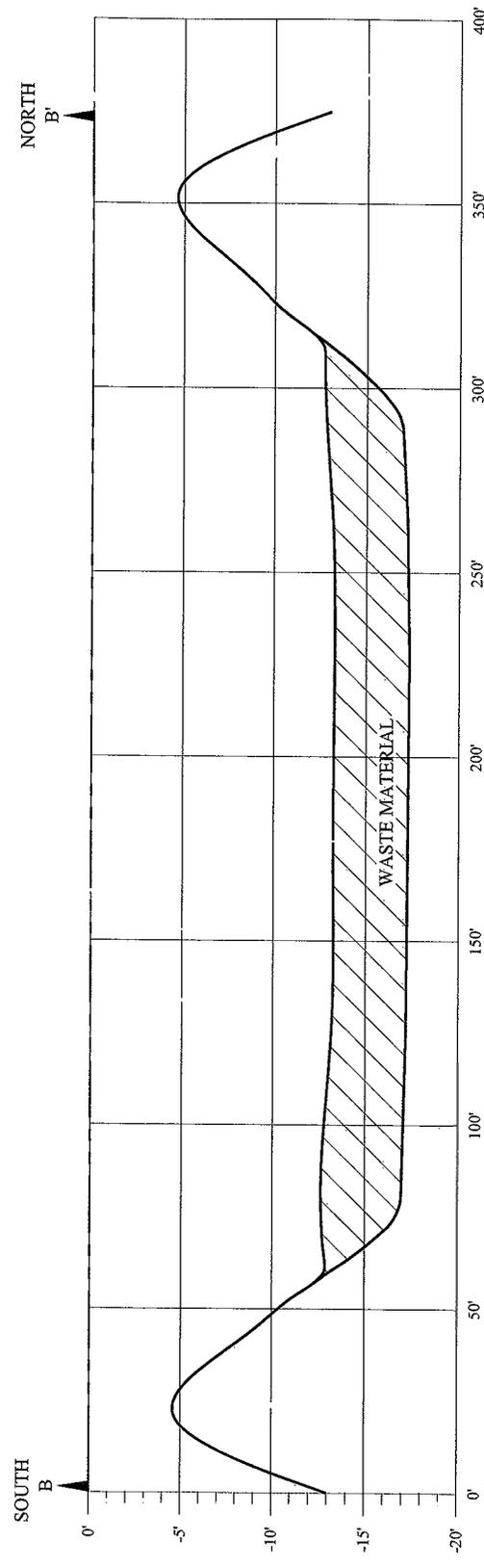


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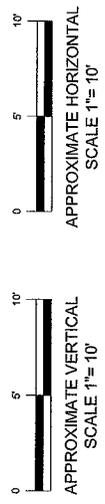
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CROSS SECTION A - A'



CROSS SECTION B - B'



**Terracon**  
 Consulting Engineers & Scientists

TERRACON NO: 92067147

DRAWN BY:	REW
CHECKED BY:	KPJ
SCALE:	AS SHOWN
DATE:	6-14-06

**Figure 4**  
 Generalized Cross Sections  
 Steve's Oilfield Services - Kingsville  
 Near Highway 77 & County Route 425  
 Kingsville, Texas

Table 1a  
Soil Data Summary Table for TPH and BTEX  
Steve's Oilfield Services  
Kleberg County, Texas

Sample Number	Sample Date	Sample Depth	TPH (mg/kg) (TCEQ TX 1005)				TPH (TCEQ TX 1006)												BTEX (mg/kg) EPA 8260B			
			C6 - C12 Carbon Range	C12 - C28 Carbon Range	C28 - C35 Carbon Range	C6 - C35 Carbon Range	C <sub>6</sub> - C <sub>3</sub> Aliphatics	C <sub>8</sub> - C <sub>10</sub> Aliphatics	C <sub>10</sub> - C <sub>12</sub> Aliphatics	C <sub>12</sub> - C <sub>16</sub> Aliphatics	C <sub>16</sub> - C <sub>21</sub> Aliphatics	C <sub>21</sub> - C <sub>35</sub> Aliphatics	C <sub>6</sub> - C <sub>8</sub> Aromatics	C <sub>8</sub> - C <sub>10</sub> Aromatics	C <sub>10</sub> - C <sub>12</sub> Aromatics	C <sub>12</sub> - C <sub>16</sub> Aromatics	C <sub>16</sub> - C <sub>21</sub> Aromatics	C <sub>21</sub> - C <sub>35</sub> Aromatics	Benzene	Toluene	Ethylbenzene	Xylenes
B-1	11-Apr-06	2-3'	421	2,910	< 50.0	3,331	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.025	< 0.0327	0.0382	< 0.0508
	11-Apr-06	10-11'	< 50.0	148	< 50.0	148	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.025	< 0.0327	< 0.0359	< 0.0508
	11-Apr-06	14-15'	< 50.0	< 50.0	< 50.0	< 50.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.025	< 0.0327	< 0.0359	< 0.0508
B-3	11-Apr-06	2-3'	299	3,230	< 50.0	3,529	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.025	< 0.0327	< 0.0359	< 0.0508
B-4	11-Apr-06	8-9'	< 50.0	< 50.0	< 50.0	< 50.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.025	< 0.0327	< 0.0359	< 0.0508
B-5	11-Apr-06	3-4'	1,280	7,040	< 50.0	8,320	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.025	< 0.0327	< 0.0359	< 0.0508
	11-Apr-06	6-7'	< 50.0	194	< 50.0	194	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.025	< 0.0327	< 0.0359	< 0.0508
B-6	11-Apr-06	2'	2,960	6,590	< 50.0	9,550	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.025	< 0.0327	< 0.0359	< 0.0508
	11-Apr-06	7'	144	377	< 50.0	521	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.025	< 0.0327	0.0423	< 0.0508
B-7	11-Apr-06	3'	< 50.0	248	< 50.0	248	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.025	< 0.0327	< 0.0359	< 0.0508
	11-Apr-06	5'	< 50.0	< 50.0	< 50.0	< 50.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.025	< 0.0327	< 0.0359	< 0.0508
B-8	11-Apr-06	3'	4,930	29,800	< 50.0	34,730	< 5.00	904	3,870	13,900	9,260	2,290	< 5.00	< 5.00	156	2,000	2,070	323	NA	NA	NA	NA
	11-Apr-06	6-7'	< 50.0	< 50.0	< 50.0	< 50.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.025	< 0.0327	< 0.0359	< 0.0508
B-9	11-Apr-06	6'	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.025	< 0.0327	< 0.0359	< 0.0508
B-10	11-Apr-06	7'	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
B-11	11-Apr-06	8'	< 50.0	< 50.0	< 50.0	< 50.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
B-13	11-Apr-06	2-3'	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.025	< 0.0327	< 0.0359	< 0.0508
Pit #1	11-Apr-06	2'	284	1,350	< 50.0	1,634	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Pit #2	11-Apr-06	2'	< 50.0	1,560	< 50.0	1,560	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.025	< 0.0327	< 0.0359	< 0.0508
Pit #3	11-Apr-06	2'	482	2,250	< 50.0	2,732	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.025	< 0.0327	< 0.0359	< 0.0508
Pit #4	11-Apr-06	2'	955	4,860	< 50.0	5,815	< 5.00	189	766	2,700	1,540	372	< 5.00	< 5.00	< 5.00	79	107	< 5.00	NA	NA	NA	NA
Pit #5	11-Apr-06	2'	553	3,680	< 50.0	4,233	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.025	< 0.0327	< 0.0359	< 0.0508
Pit A	11-Apr-06	2'	616	3,330	< 50.0	3,946	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.025	< 0.0327	< 0.0359	< 0.0508
TSP-1	11-Apr-06	30'	< 50.0	< 50.0	< 50.0	< 50.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.025	< 0.0327	< 0.0359	< 0.0508
<b>TRRP SL/PCL</b>			<b>65</b>	<b>200</b>	<b>200</b>	<b>11,000*</b>	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	<b>0.026</b>	<b>8.2</b>	<b>7.6</b>	<b>120</b>

EPA - United States Environmental Protection Agency  
TCEQ - Texas Commission of Environmental Quality  
SL - Screening Level, applicable to TPH values  
PCL - Protective Concentration Levels  
TRRP - Texas Risk Reduction Program  
< - not detected at the indicated analytical detection limit  
NA - not analyzed  
NE - assessment level not established  
TPH - Total Petroleum Hydrocarbons  
\* - Calculated PCL - using the TX-1006 sample results of soil sample B-8 at 3 feet below ground surface

Table 1b

Soil Data Summary Table for TPH, VOCs, and Metals  
Steve's Oilfield Services  
Kleberg County, Texas

Sample Number	Sample Date	Sample Depth	VOCs (mg/kg)				SVOCs (mg/kg)													Total RCRA Metals (EPA 6020)						
			EPA 8260B				EPA Method 8270C																			
			1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	Naphthalene	Xylenes, Total	2-Methylnaphthalene	Acenaphthene	Acenaphthylene	Anthracene	Benzo(a)anthracene	bis(2-ethylhexyl)phthalate	Chrysene	Fluoranthene	Fluorene	Naphthalene	Phenanthrene	Pyrene	Arsenic	Barium	Cadmium	Chromium	Lead	Mercury	Selenium	Silver
B-1	11-Apr-06	2-3'	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
B-1	11-Apr-06	10-11'	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
B-1	11-Apr-06	14-15'	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
B-3	11-Apr-06	2-3'	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
B-4	11-Apr-06	8-9'	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
B-5	11-Apr-06	3-4'	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
B-5	11-Apr-06	6-7'	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
B-6	11-Apr-06	2'	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
B-6	11-Apr-06	7'	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
B-7	11-Apr-06	3'	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
B-7	11-Apr-06	5'	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
B-8	11-Apr-06	3'	0.171	0.0705	0.32	0.115	114	20.4	6.95	5.42	0.207	3.24	0.4	2.23	27.7	31.5	30.7	3.39	8	2,560	1	164	125	0.166	0.202	0.201
B-8	11-Apr-06	6-7'	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
B-9	11-Apr-06	6'	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
B-10	11-Apr-06	7'	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
B-11	11-Apr-06	8'	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
B-13	11-Apr-06	2-3'	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Pit #1	11-Apr-06	2'	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Pit #2	11-Apr-06	2'	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Pit #3	11-Apr-06	2'	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Pit #4	11-Apr-06	2'	< 0.0366	< 0.0482	< 0.0372	< 0.0508	3.15	0.804	< 0.168	0.15	< 0.133	0.598	< 0.124	0.14	1.37	0.738	2.96	0.467	5.26	1,240	0.484	420	83.6	0.185	0.16	0.208
Pit #5	11-Apr-06	2'	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Pit A	11-Apr-06	2'	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
TSP-1	11-Apr-06	30'	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
<b>TRRP SL/PCL</b>			<b>49</b>	<b>53</b>	<b>31</b>	<b>120</b>	<b>17</b>	<b>240</b>	<b>410</b>	<b>6,900</b>	<b>5.7</b>	<b>43</b>	<b>560</b>	<b>1,900</b>	<b>300</b>	<b>31</b>	<b>420</b>	<b>1100</b>	<b>5</b>	<b>440</b>	<b>1.5</b>	<b>2,400</b>	<b>3</b>	<b>0.0078</b>	<b>2.3</b>	<b>0.48</b>

- EPA - United States Environmental Protection Agency
- TCEQ - Texas Commission of Environmental Quality
- VOC - Volatile Organic Compound
- SVOCs - Semi-Volatile Organic Compounds
- SL - Screening Level, applicable to TPH values
- PCL - Protective Concentration Levels
- TRRP - Texas Risk Reduction Program
- < - not detected at the indicated analytical detection limit
- NA - not analyzed
- RCRA - Resource Conservation and Recovery Act

Table 2

Soil Parameter Summary Table  
 Steve's Oilfield Services  
 Kleberg County, Texas

Sample Number	Sample Date	Sample Depth	Chloride (mg/kg) M4500-CL B	Specific Conductance (umhos/cm) E120.1	pH 9045C	SAR AG Handbook #60
B-1	11-Apr-06	2-3'	NA	NA	NA	NA
	11-Apr-06	10-11'	NA	NA	NA	NA
	11-Apr-06	14-15'	NA	NA	NA	NA
B-3	11-Apr-06	2-3'	NA	NA	NA	NA
B-4	11-Apr-06	8-9'	NA	NA	NA	NA
B-5	11-Apr-06	3-4'	NA	NA	NA	NA
	11-Apr-06	6-7'	NA	NA	NA	NA
B-6	11-Apr-06	2'	NA	NA	NA	NA
	11-Apr-06	7'	NA	NA	NA	NA
B-7	11-Apr-06	3'	NA	NA	NA	NA
	11-Apr-06	5'	NA	NA	NA	NA
B-8	11-Apr-06	3'	2,900	4,500	8.26	25.5
	11-Apr-06	6-7'	NA	NA	NA	NA
B-9	11-Apr-06	6'	3,450	5,550	7.56	19.7
B-10	11-Apr-06	7'	2,650	5,430	8.31	30.8
B-11	11-Apr-06	8'	NA	NA	NA	NA
B-13	11-Apr-06	2-3'	3,350	4,940	8.98	30.2
Pit #1	11-Apr-06	2'	NA	NA	NA	NA
Pit #2	11-Apr-06	2'	NA	NA	NA	NA
Pit #3	11-Apr-06	2'	NA	NA	NA	NA
Pit #4	11-Apr-06	2'	15,200	NA	8.43	NA
Pit #5	11-Apr-06	2'	NA	NA	NA	NA
Pit A	11-Apr-06	2'	NA	NA	NA	NA
TSP-1	11-Apr-06	30'	NA	NA	NA	NA

- EPA - United States Environmental Protection Agency
- TCEQ - Texas Commission of Environmental Quality
- < " - not detected at the indicated analytical detection limit
- NA - not analyzed
- SAR - Sodium Absorption Ratio

**TABLE 3**  
**SUMMARY OF GEOTECHNICAL TEST RESULTS**  
 Steve's Oilfield Services  
 Kleberg County, Texas

Boring	Depth (ft)	Soil Classification	Moisture Content (%)	Atterberg Limits			Minus # 200 Sieve (%)
				Liquid Limit	Plastic Limit	Plasticity Index	
B-4	15-16	CH	14	57	20	37	64
B-9	8-9	CL	13	33	15	18	68
B-10	12-13	CH	22	71	23	48	92
B-12	3-4	CL	13	42	17	25	76

**Note:**

- ft - feet
- pcf - pounds per cubic feet
- tsf - tons per square feet
- psf - pounds per square feet
- not tested

- Fat Clay
- Lean Clay



Photo 5: View of typical frac tanks in the western portion of the site.

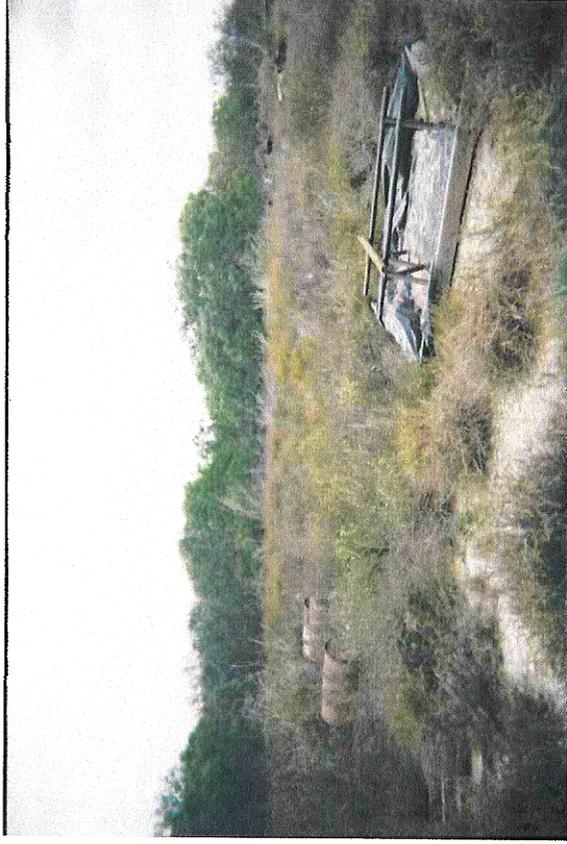


Photo 6: View of 55 gallon drums in the southern portion of the site.

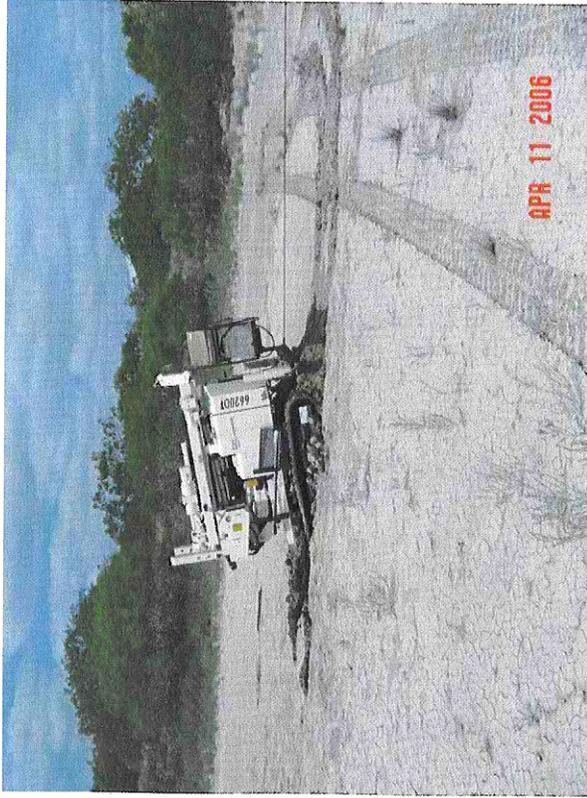


Photo 7: View of rig stuck in pit floor.

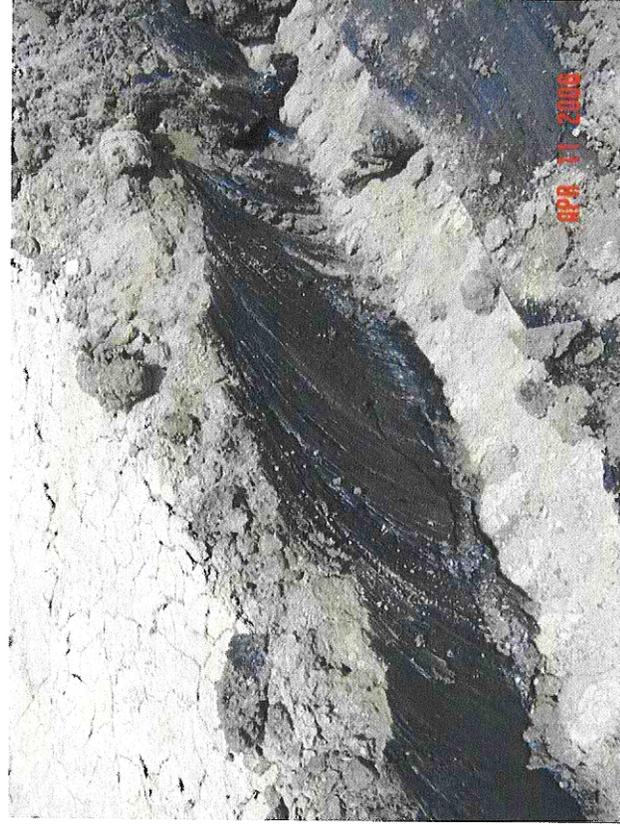


Photo 8: View of waste in the pit where rig was stuck.

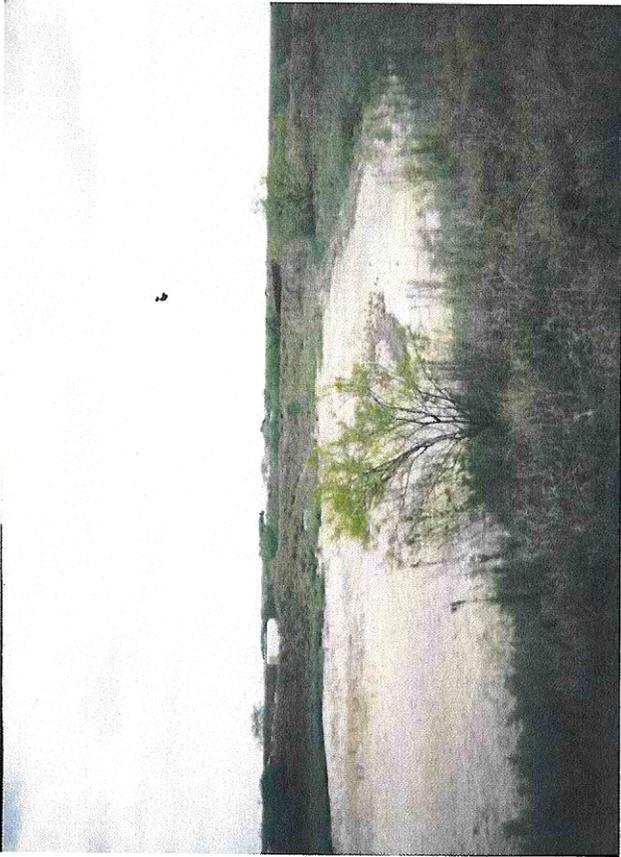


Photo 1: Typical view of the pit

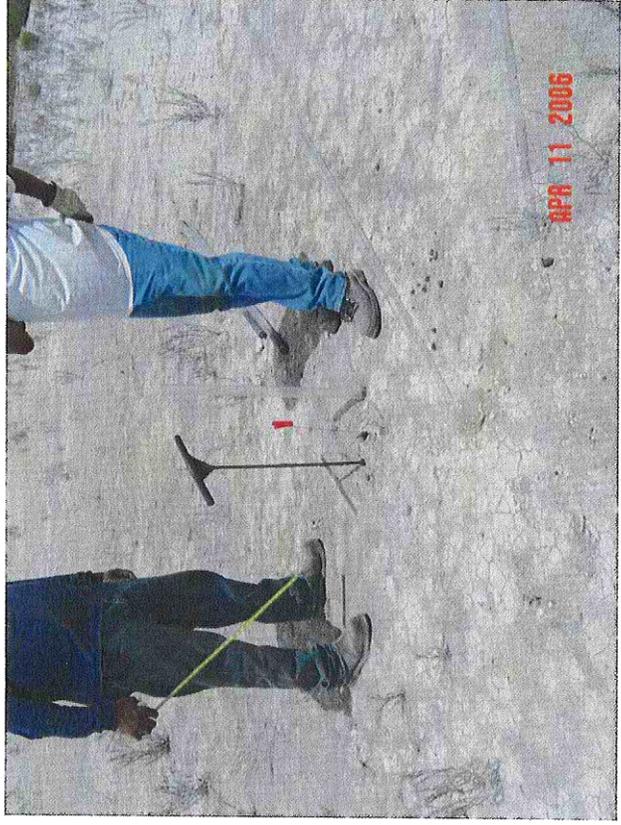


Photo 2: View of utility probe and Shelby tube liner at depth.

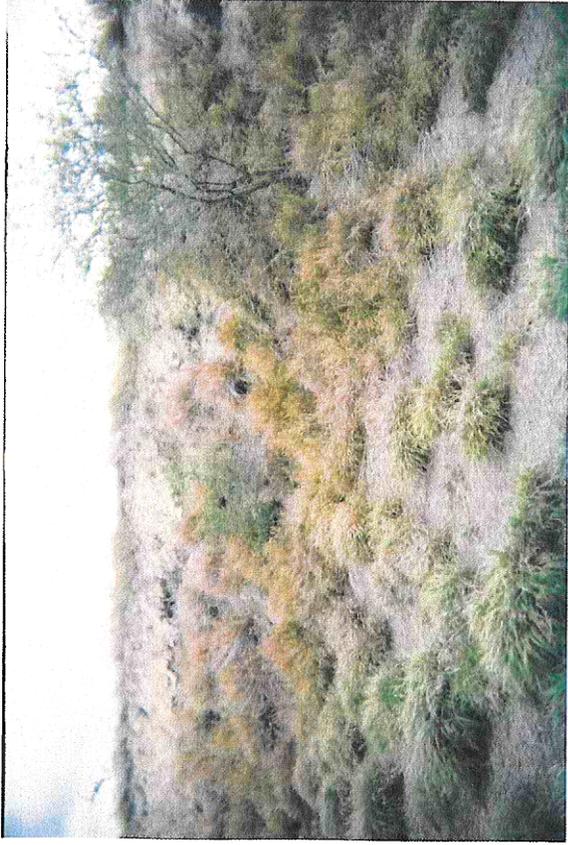


Photo 3: Typical view of the outer surface of the eastern berm.

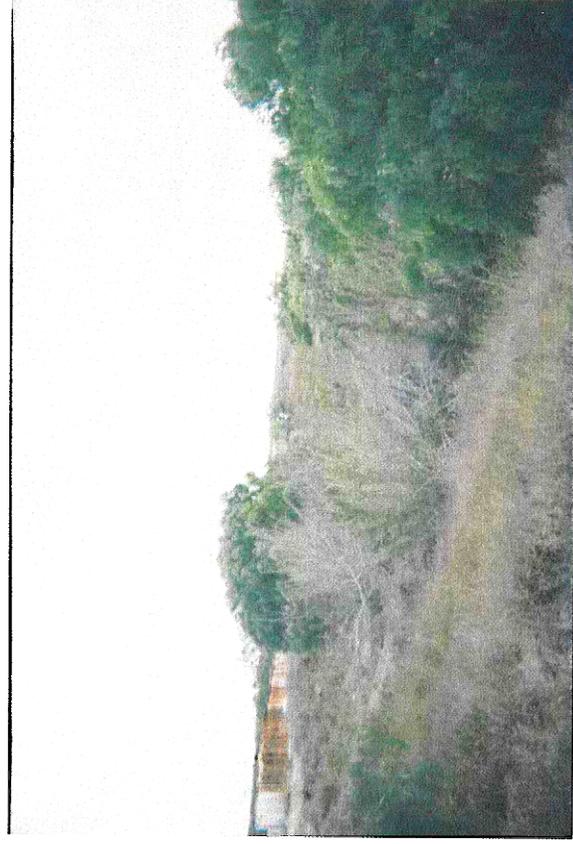


Photo 4: Typical view of the inner surface of the southern berm (area with side slope sloughing).

# SOIL BORING / MONITOR WELL LOG

PROJECT: <u>Steve's Oil Field Services, Inc. Site</u>	DRILLING COMPANY: <u>ESN South</u>
PROJECT NUMBER: <u>92067147</u>	DRILLER: <u>Brad Orban</u>
CLIENT: <u>Railroad Commission of Texas</u>	DRILLING METHOD: <u>DPT</u>
BORING / WELL NUMBER: <u>B-1</u>	BORE HOLE DIAMETER: <u>2"</u>
TOTAL DEPTH: <u>15.0'</u>	SCREEN: Diam. _____ Length _____ Slot Size _____
SURFACE ELEVATION: _____	CASING: Diam. _____ Length _____ Type _____
SUPERVISOR: <u>Krishna Jonnalagadda</u>	DATE DRILLED: <u>4-11-06</u>

DEPTH (FT)	SOIL SYMBOL	WELL CONSTRUCTION	PID	SAMPLES	SAMPLE DEPTH	DESCRIPTION INTERVAL	DESCRIPTION OF STRATUM	DEPTH (FT)
							Name (Sym.), Color, Water Content, Plasticity, Density, Gradation Grain Size, Observations	
0			20			1	SAND, silty, light tan, hydrocarbon (HC) odor, moist	0
			19				WASTE, oily sludge mixed with fine sand, black, high HC odor	
			18	▲		3	CLAY, sandy, light tan, slight HC odor	
5			11					
			3.9					5
			2.6					
			1.9					
			0					
			0					
10			0					10
			0	▲				
			0					
			0				-caliche	
			0					
15			0	▲		15	Boring Terminated @ 15 feet bgs	15
20								20
25								25
30								30
35								35
40								40

REMARKS:

This log should not be used separately from the original report.



# SOIL BORING / MONITOR WELL LOG

PROJECT: <u>Steve's Oil Field Services, Inc. Site</u>	DRILLING COMPANY: <u>ESN South</u>
PROJECT NUMBER: <u>92067147</u>	DRILLER: <u>Brad Orban</u>
CLIENT: <u>Railroad Commission of Texas</u>	DRILLING METHOD: <u>DPT</u>
BORING / WELL NUMBER: <u>B-2</u>	BORE HOLE DIAMETER: <u>2"</u>
TOTAL DEPTH: <u>15.0'</u>	SCREEN: Diam. _____ Length _____ Slot Size _____
SURFACE ELEVATION: _____	CASING: Diam. _____ Length _____ Type _____
SUPERVISOR: <u>Krishna Jonnalagadda</u>	DATE DRILLED: <u>4-11-06</u>

DEPTH (FT)	SOIL SYMBOL	WELL CONSTRUCTION	PID	SAMPLES	SAMPLE DEPTH	DESCRIPTION INTERVAL	DESCRIPTION OF STRATUM	DEPTH (FT)
							Name (Sym.), Color, Water Content, Plasticity, Density, Gradation, Grain Size, Observations	
0	[Symbol]		0			1	TOPSOIL, sandy, roots, light tan, no HC odor	0
			0			2	CALICHE, sandy, light tan, no HC odor	
			0			3	SAND, silty, gray, no HC odor	
5	[Symbol]		0				CLAY, sandy, gray, no HC odor	5
			0				- grades to tan with orange shade	
10	[Symbol]		0				- grades to tan	10
			0				- caliche	
15	[Symbol]		0			15	- grades to tan	15
							<b>Boring Terminated @ 15 feet bgs</b>	
20								20
25								25
30								30
35								35
40								40

REMARKS:

This log should not be used separately from the original report.



# SOIL BORING / MONITOR WELL LOG

PROJECT: <u>Steve's Oil Field Services, Inc. Site</u>	DRILLING COMPANY: <u>ESN South</u>
PROJECT NUMBER: <u>92067147</u>	DRILLER: <u>Brad Orban</u>
CLIENT: <u>Railroad Commission of Texas</u>	DRILLING METHOD: <u>DPT</u>
BORING / WELL NUMBER: <u>B-3</u>	BORE HOLE DIAMETER: <u>2"</u>
TOTAL DEPTH: <u>9.0'</u>	SCREEN: Diam. _____ Length _____ Slot Size _____
SURFACE ELEVATION: _____	CASING: Diam. _____ Length _____ Type _____
SUPERVISOR: <u>Krishna Jonnalagadda</u>	DATE DRILLED: <u>4-11-06</u>

DEPTH (FT)	SOIL SYMBOL	WELL CONSTRUCTION	PID	SAMPLES	SAMPLE DEPTH	DESCRIPTION INTERVAL	DESCRIPTION OF STRATUM	DEPTH (FT)
							Name (Sym.), Color, Water Content, Plasticity, Density, Gradation, Grain Size, Observations	
0			0		1.0 0 0 0 0 0 0 0 0 0	9	CLAY, sandy, dark gray, HC odor  - grades to light tan, no HC odor  - grades to tan	0
5			5					
10			10					
15			15					
20			20					
25			25					
30			30					
35			35					
40			40					
<b>Boring Terminated @ 9 feet bgs</b>							10	

REMARKS:

This log should not be used separately from the original report.



# SOIL BORING / MONITOR WELL LOG

PROJECT: <u>Steve's Oil Field Services, Inc. Site</u>	DRILLING COMPANY: <u>ESN South</u>
PROJECT NUMBER: <u>92067147</u>	DRILLER: <u>Brad Orban</u>
CLIENT: <u>Railroad Commission of Texas</u>	DRILLING METHOD: <u>DPT</u>
BORING / WELL NUMBER: <u>B-4</u>	BORE HOLE DIAMETER: <u>2"</u>
TOTAL DEPTH: <u>21.0'</u>	SCREEN: Diam. _____ Length _____ Slot Size _____
SURFACE ELEVATION: _____	CASING: Diam. _____ Length _____ Type _____
SUPERVISOR: <u>Krishna Jonnalagadda</u>	DATE DRILLED: <u>4-11-06</u>

DEPTH (FT)	SOIL SYMBOL	WELL CONSTRUCTION	PID	SAMPLES	SAMPLE DEPTH	DESCRIPTION INTERVAL	DESCRIPTION OF STRATUM	DEPTH (FT)
							Name (Sym.), Color, Water Content, Plasticity, Density, Gradation, Grain Size, Observations	
0	●	[ ]	0	█	█	1	SAND, silty, tan, no HC odor, moist	0
5	●		0	█	█	12	CLAY, sandy, roots/organic decay odor, dark gray	5
10	●		0	█	█	21	CLAY, silty, light tan/orange, moist, no HC odor	10
15	●		0	█	█			15
20	●		0	█	█			20
25	●		0	█	█			25
30	●		0	█	█			30
35	●		0	█	█			35
40	●		0	█	█		Boring Terminated @ 21 feet bgs	40

REMARKS:

This log should not be used separately from the original report.



ENVLOG2 067147.GPJ 8/4/06

# SOIL BORING / MONITOR WELL LOG

PROJECT: Steve's Oil Field Services, Inc. Site	DRILLING COMPANY: ESN South
PROJECT NUMBER: 92067147	DRILLER: Brad Orban
CLIENT: Railroad Commission of Texas	DRILLING METHOD: DPT
BORING / WELL NUMBER: B-5	BORE HOLE DIAMETER: 2"
TOTAL DEPTH: 9.0'	SCREEN: Diam. _____ Length _____ Slot Size _____
SURFACE ELEVATION: _____	CASING: Diam. _____ Length _____ Type _____
SUPERVISOR: Krishna Jonnalagadda	DATE DRILLED: 4-11-06

DEPTH (FT)	SOIL SYMBOL	WELL CONSTRUCTION	PID	SAMPLES	SAMPLE DEPTH	DESCRIPTION INTERVAL	DESCRIPTION OF STRATUM	DEPTH (FT)
							Name (Sym.), Color, Water Content, Plasticity, Density, Gradation, Grain Size, Observations	
0								0
1.0			1.0				SAND, silty, light tan, no HC odor, moist	1.0
15			15			2		15
17			17			3	SAND, clayey, light tan, slight HC odor, moist	17
11			11		▶		WASTE, oily sludge mixed with fine sand, black, high HC odor	11
5			3.9			5		5
2.6			2.6				CLAY, sandy, tan, no HC odor	2.6
1.9			1.9		▶			1.9
0			0					0
0			0			9		0
10							<b>Boring Terminated @ 9 feet bgs</b>	10
15								15
20								20
25								25
30								30
35								35
40								40

REMARKS:

This log should not be used separately from the original report.



# SOIL BORING / MONITOR WELL LOG

PROJECT: <u>Steve's Oil Field Services, Inc. Site</u>	DRILLING COMPANY: <u>ESN South</u>
PROJECT NUMBER: <u>92067147</u>	DRILLER: <u>Brad Orban</u>
CLIENT: <u>Railroad Commission of Texas</u>	DRILLING METHOD: <u>DPT</u>
BORING / WELL NUMBER: <u>B-6</u>	BORE HOLE DIAMETER: <u>2"</u>
TOTAL DEPTH: <u>9.0'</u>	SCREEN: Diam. _____ Length _____ Slot Size _____
SURFACE ELEVATION: _____	CASING: Diam. _____ Length _____ Type _____
SUPERVISOR: <u>Krishna Jonnalagadda</u>	DATE DRILLED: <u>4-11-06</u>

DEPTH (FT)	SOIL SYMBOL	WELL CONSTRUCTION	PID	SAMPLES	SAMPLE DEPTH	DESCRIPTION INTERVAL	DESCRIPTION OF STRATUM	DEPTH (FT)
							Name (Sym.), Color, Water Content, Plasticity, Density, Gradation, Grain Size, Observations	
0	[Symbol]		2.3	[Symbol]	1	1	SAND, silty, light tan, no HC odor, moist	0
			15	[Symbol]	3	3	WASTE, oily sludge mixed with fine sand, black, high HC odor	
			17	[Symbol]				
			19	[Symbol]			CLAY, silty, tan, moist, no HC odor	
5			6	[Symbol]				5
			3.4	[Symbol]				
			1.6	[Symbol]				
			0	[Symbol]				
			0	[Symbol]		9		
10							<b>Boring Terminated @ 9 feet bgs</b>	10
15								15
20								20
25								25
30								30
35								35
40								40

REMARKS:

This log should not be used separately from the original report.



# SOIL BORING / MONITOR WELL LOG

PROJECT: <u>Steve's Oil Field Services, Inc. Site</u>	DRILLING COMPANY: <u>ESN South</u>
PROJECT NUMBER: <u>92067147</u>	DRILLER: <u>Brad Orban</u>
CLIENT: <u>Railroad Commission of Texas</u>	DRILLING METHOD: <u>DPT</u>
BORING / WELL NUMBER: <u>B-7</u>	BORE HOLE DIAMETER: <u>2"</u>
TOTAL DEPTH: <u>9.0'</u>	SCREEN: Diam. _____ Length _____ Slot Size _____
SURFACE ELEVATION: _____	CASING: Diam. _____ Length _____ Type _____
SUPERVISOR: <u>Krishna Jonnalagadda</u>	DATE DRILLED: <u>4-11-06</u>

DEPTH (FT)	SOIL SYMBOL	WELL CONSTRUCTION	PID	SAMPLES	SAMPLE DEPTH	DESCRIPTION INTERVAL	DESCRIPTION OF STRATUM	DEPTH (FT)
							Name (Sym.), Color, Water Content, Plasticity, Density, Gradation, Grain Size, Observations	
0	[Symbol]	[Diagram]	0	[Symbol]	[Symbol]	2	SAND, silty, light tan, no HC odor, moist	0
5	[Symbol]	[Diagram]	0	[Symbol]	[Symbol]	9	CLAY, silty, tan, moist, no HC odor	5
10	[Symbol]	[Diagram]	0	[Symbol]	[Symbol]	9	<b>Boring Terminated @ 9 feet bgs</b>	10
15	[Symbol]	[Diagram]	0	[Symbol]	[Symbol]			15
20	[Symbol]	[Diagram]	0	[Symbol]	[Symbol]			20
25	[Symbol]	[Diagram]	0	[Symbol]	[Symbol]			25
30	[Symbol]	[Diagram]	0	[Symbol]	[Symbol]			30
35	[Symbol]	[Diagram]	0	[Symbol]	[Symbol]			35
40	[Symbol]	[Diagram]	0	[Symbol]	[Symbol]			40

REMARKS:

This log should not be used separately from the original report.



# SOIL BORING / MONITOR WELL LOG

PROJECT: Steve's Oil Field Services, Inc. Site	DRILLING COMPANY: ESN South
PROJECT NUMBER: 92067147	DRILLER: Brad Orban
CLIENT: Railroad Commission of Texas	DRILLING METHOD: DPT
BORING / WELL NUMBER: B-8	BORE HOLE DIAMETER: 2"
TOTAL DEPTH: 9.0'	SCREEN: Diam. _____ Length _____ Slot Size _____
SURFACE ELEVATION: _____	CASING: Diam. _____ Length _____ Type _____
SUPERVISOR: Krishna Jonnalagadda	DATE DRILLED: 4-11-06

DEPTH (FT)	SOIL SYMBOL	WELL CONSTRUCTION	PID	SAMPLES	SAMPLE DEPTH	DESCRIPTION INTERVAL	DESCRIPTION OF STRATUM	DEPTH (FT)
							Name (Sym.), Color, Water Content, Plasticity, Density, Gradation, Grain Size, Observations	
0	•••••	[ ]	0	█			SAND, silty, light tan, no odor, moist	0
2	█		0	█			WASTE, oily sludge mixed with fine sand, black, high HC odor	
4	█		19	▶				
5	█		24	▶			CLAY, silty, tan, moist, no HC odor	5
5	█		16	▶				
4.8	█		4.8	▶				
3.2	█		3.2	▶				
0	█		0	▶				
0	█		0	▶				
9			0				Boring Terminated @ 9 feet bgs	10
10								
15								15
20								20
25								25
30								30
35								35
40								40

REMARKS:

This log should not be used separately from the original report.



# SOIL BORING / MONITOR WELL LOG

PROJECT: Steve's Oil Field Services, Inc. Site  
 PROJECT NUMBER: 92067147  
 CLIENT: Railroad Commission of Texas  
 BORING / WELL NUMBER: B-9  
 TOTAL DEPTH: 21.0'  
 SURFACE ELEVATION: \_\_\_\_\_  
 SUPERVISOR: Krishna Jonnalagadda

DRILLING COMPANY: ESN South  
 DRILLER: Brad Orban  
 DRILLING METHOD: DPT  
 BORE HOLE DIAMETER: 2"  
 SCREEN: Diam. \_\_\_\_\_ Length \_\_\_\_\_ Slot Size \_\_\_\_\_  
 CASING: Diam. \_\_\_\_\_ Length \_\_\_\_\_ Type \_\_\_\_\_  
 DATE DRILLED: 4-12-06

DEPTH (FT)	SOIL SYMBOL	WELL CONSTRUCTION	PID	SAMPLES	SAMPLE DEPTH	DESCRIPTION INTERVAL	DESCRIPTION OF STRATUM	DEPTH (FT)
							Name (Sym.), Color, Water Content, Plasticity, Density, Gradation, Grain Size, Observations	
0			0				SAND, silty, light tan, no HC odor	0
3			0				SAND, clayey, silty, no HC odor, dark gray	5
5			0				- caliche	10
10			0				CLAY, silty, light tan, no HC odor	15
15			0				- grades to reddish brown to greenish gray	20
20			0				Boring Terminated @ 21 feet bgs	25
25			0					30
30			0					35
35			0					40

REMARKS:

This log should not be used separately from the original report.



ENVLOG2\_067147.GPJ 8/4/06

# SOIL BORING / MONITOR WELL LOG

PROJECT: <u>Steve's Oil Field Services, Inc. Site</u>	DRILLING COMPANY: <u>ESN South</u>
PROJECT NUMBER: <u>92067147</u>	DRILLER: <u>Brad Orban</u>
CLIENT: <u>Railroad Commission of Texas</u>	DRILLING METHOD: <u>DPT</u>
BORING / WELL NUMBER: <u>B-10</u>	BORE HOLE DIAMETER: <u>2"</u>
TOTAL DEPTH: <u>21.0'</u>	SCREEN: Diam. _____ Length _____ Slot Size _____
SURFACE ELEVATION: _____	CASING: Diam. _____ Length _____ Type _____
SUPERVISOR: <u>Krishna Jonnalagadda</u>	DATE DRILLED: <u>4-12-06</u>

DEPTH (FT)	SOIL SYMBOL	WELL CONSTRUCTION	PID	SAMPLES	SAMPLE DEPTH	DESCRIPTION INTERVAL	DESCRIPTION OF STRATUM	DEPTH (FT)
							Name (Sym.), Color, Water Content, Plasticity, Density, Gradation, Grain Size, Observations	
0	[Symbol]	[Symbol]	0	[Symbol]	[Symbol]	[Symbol]	SAND, silty, light tan, no HC odor	0
3			0			3	SAND, clayey, dark gray, no HC odor	3
5			0			5		5
10			0			10		10
11			0			11	CLAY, sandy, light tan, no HC odor - grades to light orange	11
15			0			15	- grades to greenish gray	15
20			0			20		20
21			0			21	Boring Terminated @ 21 feet bgs	21
25								25
30								30
35								35
40								40

REMARKS:

This log should not be used separately from the original report.



ENVLOG2 067147.GPJ 8/4/06

# SOIL BORING / MONITOR WELL LOG

PROJECT: <u>Steve's Oil Field Services, Inc. Site</u>	DRILLING COMPANY: <u>ESN South</u>
PROJECT NUMBER: <u>92067147</u>	DRILLER: <u>Brad Orban</u>
CLIENT: <u>Railroad Commission of Texas</u>	DRILLING METHOD: <u>DPT</u>
BORING / WELL NUMBER: <u>B-11</u>	BORE HOLE DIAMETER: <u>2"</u>
TOTAL DEPTH: <u>21.0'</u>	SCREEN: Diam. _____ Length _____ Slot Size _____
SURFACE ELEVATION: _____	CASING: Diam. _____ Length _____ Type _____
SUPERVISOR: <u>Krishna Jonnalagadda</u>	DATE DRILLED: <u>4-12-06</u>

DEPTH (FT)	SOIL SYMBOL	WELL CONSTRUCTION	PID	SAMPLES	SAMPLE DEPTH	DESCRIPTION INTERVAL	DESCRIPTION OF STRATUM	DEPTH (FT)
							Name (Sym.), Color, Water Content, Plasticity, Density, Gradation, Grain Size, Observations	
0	[Symbol]	[Symbol]	0	[Symbol]	[Symbol]	[Symbol]	SAND, silty, light tan, no HC odor  - grades to dark gray, no HC odor	0
5			0			9		5
10			0			12	SAND, clayey, dark gray to tan, no HC odor	10
15			0			15	CLAY, sandy, light tan, no HC odor - caliche	15
20			0			21	CLAY, silty, reddish-brown and tan, no HC odor	20
25			0				<b>Boring Terminated @ 21 feet bgs</b>	25
30			0					30
35			0					35
40			0					40

REMARKS:

This log should not be used separately from the original report.



ENVLOG2 067147.GPJ 8/4/06

# SOIL BORING / MONITOR WELL LOG

PROJECT: <u>Steve's Oil Field Services, Inc. Site</u>	DRILLING COMPANY: <u>ESN South</u>
PROJECT NUMBER: <u>92067147</u>	DRILLER: <u>Brad Orban</u>
CLIENT: <u>Railroad Commission of Texas</u>	DRILLING METHOD: <u>DPT</u>
BORING / WELL NUMBER: <u>B-12</u>	BORE HOLE DIAMETER: <u>2"</u>
TOTAL DEPTH: <u>21.0'</u>	SCREEN: Diam. _____ Length _____ Slot Size _____
SURFACE ELEVATION: _____	CASING: Diam. _____ Length _____ Type _____
SUPERVISOR: <u>Krishna Jonnalagadda</u>	DATE DRILLED: <u>4-12-06</u>

DEPTH (FT)	SOIL SYMBOL	WELL CONSTRUCTION	PID	SAMPLES	SAMPLE DEPTH	DESCRIPTION INTERVAL	DESCRIPTION OF STRATUM	DEPTH (FT)
							Name (Sym.), Color, Water Content, Plasticity, Density, Gradation, Grain Size, Observations	
0	•••••	[ ]	0	█	█	3	SAND, silty, light tan, no HC odor	0
5	/ / / / /		0	█	█	11	SAND, clayey, dark gray, no HC odor	5
10	/ / / / /		0	█	█		CLAY, sandy, light tan, no HC odor - grades to light orange	10
15	/ / / / /		0	█	█		- grades to greenish gray	15
20	/ / / / /		0	█	█	21	Boring Terminated @ 21 feet bgs	20
25								25
30								30
35								35
40								40

REMARKS:

This log should not be used separately from the original report.



ENVLOG2\_067147.GPJ 8/4/06

# SOIL BORING / MONITOR WELL LOG

PROJECT: <u>Steve's Oil Field Services, Inc. Site</u>	DRILLING COMPANY: <u>ESN South</u>
PROJECT NUMBER: <u>92067147</u>	DRILLER: <u>Brad Orban</u>
CLIENT: <u>Railroad Commission of Texas</u>	DRILLING METHOD: <u>DPT</u>
BORING / WELL NUMBER: <u>B-13</u>	BORE HOLE DIAMETER: <u>2"</u>
TOTAL DEPTH: <u>21.0'</u>	SCREEN: Diam. _____ Length _____ Slot Size _____
SURFACE ELEVATION: _____	CASING: Diam. _____ Length _____ Type _____
SUPERVISOR: <u>Krishna Jonnalagadda</u>	DATE DRILLED: <u>4-12-06</u>

DEPTH (FT)	SOIL SYMBOL	WELL CONSTRUCTION	PID	SAMPLES	SAMPLE DEPTH	DESCRIPTION INTERVAL	DESCRIPTION OF STRATUM	DEPTH (FT)
							Name (Sym.), Color, Water Content, Plasticity, Density, Gradation, Grain Size, Observations	
0	[Symbol]		0	[Symbol]	[Symbol]	0	SAND, silty, light tan, no HC odor	0
5	[Symbol]		0	[Symbol]	[Symbol]	3	SAND, clayey, dark gray, no HC odor	5
10	[Symbol]		0	[Symbol]	[Symbol]	11	CLAY, sandy, light tan, no HC odor - grades to light orange	10
15	[Symbol]		0	[Symbol]	[Symbol]	21	- grades to greenish gray	15
20	[Symbol]		0	[Symbol]	[Symbol]	21	Boring Terminated @ 21 feet bgs	20
25								25
30								30
35								35
40								40

REMARKS:

This log should not be used separately from the original report.



ENVLOG2\_067147.GPJ 8/4/06

# SOIL BORING / MONITOR WELL LOG

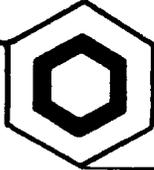
PROJECT: Steve's Oil Field Services, Inc. Site	DRILLING COMPANY: ESN South
PROJECT NUMBER: 92067147	DRILLER: Brad Orban
CLIENT: Railroad Commission of Texas	DRILLING METHOD: DPT
BORING / WELL NUMBER: B-14/TSP-1	BORE HOLE DIAMETER: 2"
TOTAL DEPTH: 33.0'	SCREEN: Diam. 1" Length 10' Slot Size 0.010"
SURFACE ELEVATION: _____	CASING: Diam. 1" Length 23' Type PVC
SUPERVISOR: Krishna Jonnalagadda	DATE DRILLED: 4-12-06

DEPTH (FT)	SOIL SYMBOL	WELL CONSTRUCTION	PID	SAMPLES	SAMPLE DEPTH	DESCRIPTION INTERVAL	DESCRIPTION OF STRATUM	DEPTH (FT)
							Name (Sym.), Color, Water Content, Plasticity, Density, Gradation, Grain Size, Observations	
0			0			1	TOPSOIL, sandy, roots, light tan, no HC odor	0
			0			2	CALICHE, sandy, light tan, no HC odor	
			0			3	SAND, silty, gray, no HC odor	
5			0				CLAY, sandy, gray, no HC odor	5
			0				- grades to tan with orange shade	
10			0				- grades to tan	10
			0				- caliche	
15			0			15	- grades to tan	15
			0				CLAY, silty, greenish gray, moist, no HC odor	
20			0				- grades to greenish-gray with a tan shade	20
			0					
25			0					25
			0					
30			0			30	SAND, silty, moist, no HC odor	30
			0			32		
			0			33	CLAY, silty, greenish gray with tan shade, moist, no HC odor	
35			0				<b>Boring Terminated @ 33 feet bgs on account of encountering caliche layer</b>	35
40								40

REMARKS:

This log should not be used separately from the original report.





May 22, 2006

KP Jonnalagadda  
Terracon  
11555 Clay Road  
Houston, TX 77043  
TEL: (713) 690-8989  
FAX (713) 690-8787

RE:

Dear KP Jonnalagadda:

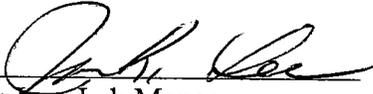
Order No.: 0604101

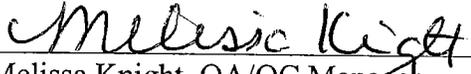
Anacon, Inc. received 19 samples on 4/13/2006 for the analyses presented in the following report.

Analyses are performed with method-required QA/QC samples. These data are provided along with the sample results. There were no problems with the analyses unless noted in a Case Narrative.

If you have any questions regarding these tests results, please feel free to call.

Sincerely,

  
James Lee, Lab Manager

  
Melissa Knight, QA/QC Manager

Total Number of Pages 244  
(Including Data Package Cover Sheet)



Chain of Custody Record

Page 1 of 2  
ORIGINAL  
Anacon Log Number: 0004101

Client: FERRECON  
11555 Cherry Rd. Houston, TX

Contact Person: KP JOURNALAKA  
Phone Number: 713-670-8589  
Fax Number: 713-690-8187

Due Date: \_\_\_\_\_  
Turn Around Time: Standard

Delivered By: Client  
Custody Seal (V/N): U82  
Temperature: On Ice

Sampled By: Korshus Tomaloga  
Please Print

Type of Analysis Requested

Log Number	Sample Matrix	Date/Time Collected	Number of Containers	Client Sample ID	Type of Analysis Requested							pH	Remarks			
					BTEX	TPH	VOC	SVOC	RCLA	SAR	E. Cond. Chloride			pH		
1		11/11/06	3	B-1 (2-3)	X	X										
2		11/11/06	2	B-1 (10-11)												
3		11/11/06	1	B-1 (14-15)												
4		11/13/05	3	B-3 (2-3)												
5		11/14/05	3	B-4 (8-9)												
6		11/14/05	3	B-5 (3-4)												
7		11/14/05	3	B-5 (4-5)												
8		11/16/05	3	B-6 (2)												
9		16:00	2	B-6 (7)												
10		16:40	3	B-7 (3)												
11		16:50	3	B-7 (5)												
12		17:00	3	B-8 (3)												
13		17:10	3	B-8 (6-7)												
14		12:00	2	Pit A (2)												
15		15:00	3	Pit #1 (2)												
16		15:10	3	Pit #2 (2)												
17		15:20	3	Pit #3 (2)												

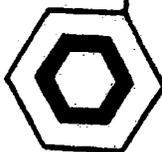
Hold all analysis. Samples collected on 04/11/06

Relinquished By: Korshus Tomaloga Date: 04/12/06 Time: 10:00  
Accepted By: Spornan Date: 1/3/0 Time: 10:00

Relinquished By: \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_  
Accepted By: \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_



730 PM 1959  
HOUSTON, TX 77034  
(281) 922-7000 Tel.  
(281) 481-0089 Fax



Chain of Custody Record

ORIGINAL

Page 1 of 2

Client: TERRACON

11555 Chy Rd. Houston, TX

Contact Person: KP Jondal At ANA

Phone Number: 713-690-8589

Fax Number: 713-690-8207

Anacon Log Number: \_\_\_\_\_

Due Date: \_\_\_\_\_

Turn Around Time: Standard

Delivered By: \_\_\_\_\_

Custody Seal (Y/N): \_\_\_\_\_

Temperature: \_\_\_\_\_

Sampled By: Kristine Tomaloga

Please Print

Log Number	Sample Matrix	Date/Time Collected	Number of Containers	Client Sample ID	Type of Analysis Requested							pH	Remarks		
					IPH	BTEX	VOC	SVOC	RCKA	SAR	EC			Chloride	OH
1		11/11/06	1	B-1 (10-11)	X	X									
2		11/11/06	2	B-1 (10-15)	X	X									
3		11/13/05	3	B-3 (2-3)	X	X									
4		11/14/05	3	B-4 (8-9)	X	X									
5		11/14/05	3	B-5 (3-4)	X	X									
6		11/14/05	3	B-5 (4-5)	X	X									
7		11/16/05	2	B-6 (2)	X	X									
8		11/16/05	2	B-6 (3)	X	X									
9		11/16/05	3	B-7 (3)	X	X									
10		11/16/05	3	B-8 (3)	X	X									
11		12:00	3	PTA (2)	X	X									
12		12:10	2	PTA (2)	X	X									
13		12:00	3	PTA (2)	X	X									
14		15:00	3	PTA (2)	X	X									
15		15:10	3	PTA (2)	X	X									
16		15:00	3	PTA (2)	X	X									
17		15:00	3	PTA (2)	X	X									

Relinquished By: Kristine Tomaloga Date: 11/16/06 Time: 10:00

Accepted By: \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_

Relinquished By: JPOM Date: 11/16/06 Time: 0:00

Accepted By: \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_

Hold all analysis  
SA samples collected on 11/16/06



**Anacon, Inc.**

Date: 21-May-06

CLIENT: Terracon  
 Lab Order: 0604101  
 Project:  
 Lab ID: 0604101-001A

Client Sample ID: B-1 (2-3)  
 Tag Number:  
 Collection Date: 4/11/2006  
 Matrix: SOLID

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
<b>VOLATILES BY GC/MS FOR SOLIDS</b>		<b>SW8260B</b>				Analyst: KH
Benzene	ND	25.0		µg/Kg	5	4/19/2006 5:36:00 PM
Ethylbenzene	38.2	35.9		µg/Kg	5	4/19/2006 5:36:00 PM
Toluene	ND	32.7		µg/Kg	5	4/19/2006 5:36:00 PM
Xylenes, Total	ND	50.8		µg/Kg	5	4/19/2006 5:36:00 PM
<b>TPH FOR SOLIDS</b>		<b>TX1005</b>				Analyst: JL
TPH (C6 - C35)	3330	50.0		mg/Kg	1	4/19/2006
TPH (C6 - C12)	421	50.0		mg/Kg	1	4/19/2006
TPH (C12 - C35)	2910	50.0		mg/Kg	1	4/19/2006

**Qualifiers:** ND - Not Detected at the Reporting Limit  
 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  
 R - RPD outside accepted recovery limits  
 E - Value above quantitation range

**Anacon, Inc.**

Date: 21-May-06

**CLIENT:** Terracon  
**Lab Order:** 0604101  
**Project:**  
**Lab ID:** 0604101-002A

**Client Sample ID:** B-1 (10-11)  
**Tag Number:**  
**Collection Date:** 4/11/2006  
**Matrix:** SOLID

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
<b>VOLATILES BY GC/MS FOR SOLIDS</b>		<b>SW8260B</b>				Analyst: KH
Benzene	ND	25.0		µg/Kg	5	4/19/2006 6:53:00 PM
Ethylbenzene	ND	35.9		µg/Kg	5	4/19/2006 6:53:00 PM
Toluene	ND	32.7		µg/Kg	5	4/19/2006 6:53:00 PM
Xylenes, Total	ND	50.8		µg/Kg	5	4/19/2006 6:53:00 PM
<b>TPH FOR SOLIDS</b>		<b>TX1005</b>				Analyst: JL
TPH (C6 - C35)	148	50.0		mg/Kg	1	4/19/2006
TPH (C6 - C12)	ND	50.0		mg/Kg	1	4/19/2006
TPH (C12 - C35)	148	50.0		mg/Kg	1	4/19/2006

**Qualifiers:** ND - Not Detected at the Reporting Limit  
 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  
 R - RPD outside accepted recovery limits  
 E - Value above quantitation range

Anacon, Inc.

Date: 21-May-06

CLIENT: Terracon  
Lab Order: 0604101  
Project:  
Lab ID: 0604101-003A

Client Sample ID: B-1 (14-15)  
Tag Number:  
Collection Date: 4/11/2006  
Matrix: SOLID

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
<b>VOLATILES BY GC/MS FOR SOLIDS</b>		<b>SW8260B</b>		Analyst: KH		
Benzene	ND	25.0		µg/Kg	5	4/29/2006 2:19:00 PM
Ethylbenzene	ND	35.9		µg/Kg	5	4/29/2006 2:19:00 PM
Toluene	ND	32.7		µg/Kg	5	4/29/2006 2:19:00 PM
Xylenes, Total	ND	50.8		µg/Kg	5	4/29/2006 2:19:00 PM
<b>TPH FOR SOLIDS</b>		<b>TX1005</b>		Analyst: JL		
TPH (C6 - C35)	ND	50.0		mg/Kg	1	4/19/2006
TPH (C6 - C12)	ND	50.0		mg/Kg	1	4/19/2006
TPH (C12 - C35)	ND	50.0		mg/Kg	1	4/19/2006

Qualifiers: ND - Not Detected at the Reporting Limit S - Spike Recovery outside accepted recovery limits  
J - Analyte detected below quantitation limits R - RPD outside accepted recovery limits  
B - Analyte detected in the associated Method Blank E - Value above quantitation range  
\* - Value exceeds Maximum Contaminant Level

CLIENT: Terracon  
 Lab Order: 0604101  
 Project:  
 Lab ID: 0604101-004A

Client Sample ID: B-3 (2-3)  
 Tag Number:  
 Collection Date: 4/11/2006  
 Matrix: SOLID

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
<b>VOLATILES BY GC/MS FOR SOLIDS</b>		<b>SW8260B</b>				Analyst: KH
Benzene	ND	25.0		µg/Kg	5	4/19/2006 7:19:00 PM
Ethylbenzene	ND	35.9		µg/Kg	5	4/19/2006 7:19:00 PM
Toluene	ND	32.7		µg/Kg	5	4/19/2006 7:19:00 PM
Xylenes, Total	ND	50.8		µg/Kg	5	4/19/2006 7:19:00 PM
<b>TPH FOR SOLIDS</b>		<b>TX1005</b>				Analyst: JL
TPH (C6 - C35)	3530	50.0		mg/Kg	1	4/19/2006
TPH (C6 - C12)	299	50.0		mg/Kg	1	4/19/2006
TPH (C12 - C35)	3230	50.0		mg/Kg	1	4/19/2006

Qualifiers: ND - Not Detected at the Reporting Limit  
 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  
 R - RPD outside accepted recovery limits  
 E - Value above quantitation range

Anacon, Inc.

Date: 21-May-06

CLIENT: Terracon  
Lab Order: 0604101  
Project:  
Lab ID: 0604101-005A

Client Sample ID: B-4 (8-9)  
Tag Number:  
Collection Date: 4/11/2006  
Matrix: SOLID

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
<b>VOLATILES BY GC/MS FOR SOLIDS</b>		<b>SW8260B</b>		Analyst: KH		
Benzene	ND	25.0		µg/Kg	5	4/19/2006 9:03:00 PM
Ethylbenzene	ND	35.9		µg/Kg	5	4/19/2006 9:03:00 PM
Toluene	ND	32.7		µg/Kg	5	4/19/2006 9:03:00 PM
Xylenes, Total	ND	50.8		µg/Kg	5	4/19/2006 9:03:00 PM
<b>TPH FOR SOLIDS</b>		<b>TX1005</b>		Analyst: JL		
TPH (C6 - C35)	ND	50.0		mg/Kg	1	4/19/2006
TPH (C6 - C12)	ND	50.0		mg/Kg	1	4/19/2006
TPH (C12 - C35)	ND	50.0		mg/Kg	1	4/19/2006

Qualifiers: ND - Not Detected at the Reporting Limit  
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  
R - RPD outside accepted recovery limits  
E - Value above quantitation range

Anacon, Inc.

Date: 21-May-06

CLIENT: Terracon  
Lab Order: 0604101  
Project:  
Lab ID: 0604101-006A

Client Sample ID: B-5 (3-4)  
Tag Number:  
Collection Date: 4/11/2006  
Matrix: SOLID

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
<b>VOLATILES BY GC/MS FOR SOLIDS</b>		<b>SW8260B</b>				Analyst: KH
Benzene	133	25.0		µg/Kg	5	4/19/2006 9:29:00 PM
Ethylbenzene	471	35.9		µg/Kg	5	4/19/2006 9:29:00 PM
Toluene	402	32.7		µg/Kg	5	4/19/2006 9:29:00 PM
Xylenes, Total	2590	50.8		µg/Kg	5	4/19/2006 9:29:00 PM
<b>TPH FOR SOLIDS</b>		<b>TX1005</b>				Analyst: JL
TPH (C6 - C35)	8320	50.0		mg/Kg	1	4/19/2006
TPH (C6 - C12)	1280	50.0		mg/Kg	1	4/19/2006
TPH (C12 - C35)	7040	50.0		mg/Kg	1	4/19/2006

Qualifiers: ND - Not Detected at the Reporting Limit  
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  
R - RPD outside accepted recovery limits  
E - Value above quantitation range

Anacon, Inc.

Date: 21-May-06

CLIENT: Terracon  
Lab Order: 0604101  
Project:  
Lab ID: 0604101-007A

Client Sample ID: B-5 (6-7)  
Tag Number:  
Collection Date: 4/11/2006  
Matrix: SOLID

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
<b>VOLATILES BY GC/MS FOR SOLIDS</b>				<b>SW8260B</b>		Analyst: KH
Benzene	ND	25.0		µg/Kg	5	4/19/2006 9:54:00 PM
Ethylbenzene	ND	35.9		µg/Kg	5	4/19/2006 9:54:00 PM
Toluene	ND	32.7		µg/Kg	5	4/19/2006 9:54:00 PM
Xylenes, Total	ND	50.8		µg/Kg	5	4/19/2006 9:54:00 PM
<b>TPH FOR SOLIDS</b>				<b>TX1005</b>		Analyst: JL
TPH (C6 - C35)	194	50.0		mg/Kg	1	4/19/2006
TPH (C6 - C12)	ND	50.0		mg/Kg	1	4/19/2006
TPH (C12 - C35)	194	50.0		mg/Kg	1	4/19/2006

Qualifiers: ND - Not Detected at the Reporting Limit  
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  
R - RPD outside accepted recovery limits  
E - Value above quantitation range

**Anacon, Inc.**

Date: 21-May-06

**CLIENT:** Terracon  
**Lab Order:** 0604101  
**Project:**  
**Lab ID:** 0604101-008A

**Client Sample ID:** B-6 (2')  
**Tag Number:**  
**Collection Date:** 4/11/2006  
**Matrix:** SOLID

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
<b>VOLATILES BY GC/MS FOR SOLIDS</b>		<b>SW8260B</b>				Analyst: KH
Benzene	ND	2500		µg/Kg	500	4/25/2006 2:50:00 PM
Ethylbenzene	4230	3590		µg/Kg	500	4/25/2006 2:50:00 PM
Toluene	ND	3270		µg/Kg	500	4/25/2006 2:50:00 PM
Xylenes, Total	ND	5080		µg/Kg	500	4/25/2006 2:50:00 PM
<b>TPH FOR SOLIDS</b>		<b>TX1005</b>				Analyst: JL
TPH (C6 - C35)	9550	50.0		mg/Kg	1	4/19/2006
TPH (C6 - C12)	2960	50.0		mg/Kg	1	4/19/2006
TPH (C12 - C35)	6590	50.0		mg/Kg	1	4/19/2006

**Qualifiers:** ND - Not Detected at the Reporting Limit      S - Spike Recovery outside accepted recovery limits  
 J - Analyte detected below quantitation limits      R - RPD outside accepted recovery limits  
 B - Analyte detected in the associated Method Blank      E - Value above quantitation range  
 \* - Value exceeds Maximum Contaminant Level

Anacon, Inc.

Date: 21-May-06

CLIENT: Terracon  
Lab Order: 0604101  
Project:  
Lab ID: 0604101-009A

Client Sample ID: B-6 (7)  
Tag Number:  
Collection Date: 4/11/2006  
Matrix: SOLID

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
<b>VOLATILES BY GC/MS FOR SOLIDS</b>		<b>SW8260B</b>		Analyst: KH		
Benzene	ND	25.0		µg/Kg	5	4/19/2006 10:49:00 PM
Ethylbenzene	ND	35.9		µg/Kg	5	4/19/2006 10:49:00 PM
Toluene	ND	32.7		µg/Kg	5	4/19/2006 10:49:00 PM
Xylenes, Total	ND	50.8		µg/Kg	5	4/19/2006 10:49:00 PM
<b>TPH FOR SOLIDS</b>		<b>TX1005</b>		Analyst: JL		
TPH (C6 - C35)	521	50.0		mg/Kg	1	4/19/2006
TPH (C6 - C12)	144	50.0		mg/Kg	1	4/19/2006
TPH (C12 - C35)	377	50.0		mg/Kg	1	4/19/2006

Qualifiers: ND - Not Detected at the Reporting Limit  
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  
R - RPD outside accepted recovery limits  
E - Value above quantitation range

CLIENT: Terracon  
 Lab Order: 0604101  
 Project:  
 Lab ID: 0604101-010A

Client Sample ID: B-7 (3')  
 Tag Number:  
 Collection Date: 4/11/2006  
 Matrix: SOLID

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
<b>VOLATILES BY GC/MS FOR SOLIDS</b>		<b>SW8260B</b>				Analyst: KH
Benzene	ND	25.0		µg/Kg	5	4/19/2006 11:14:00 PM
Ethylbenzene	ND	35.9		µg/Kg	5	4/19/2006 11:14:00 PM
Toluene	ND	32.7		µg/Kg	5	4/19/2006 11:14:00 PM
Xylenes, Total	ND	50.8		µg/Kg	5	4/19/2006 11:14:00 PM
<b>TPH FOR SOLIDS</b>		<b>TX1005</b>				Analyst: JL
TPH (C6 - C35)	248	50.0		mg/Kg	1	4/19/2006
TPH (C6 - C12)	ND	50.0		mg/Kg	1	4/19/2006
TPH (C12 - C35)	248	50.0		mg/Kg	1	4/19/2006

**Qualifiers:** ND - Not Detected at the Reporting Limit  
 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  
 R - RPD outside accepted recovery limits  
 E - Value above quantitation range

CLIENT: Terracon  
 Lab Order: 0604101  
 Project:  
 Lab ID: 0604101-011A

Client Sample ID: B-7 (5')  
 Tag Number:  
 Collection Date: 4/11/2006  
 Matrix: SOLID

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
<b>VOLATILES BY GC/MS FOR SOLIDS</b>		<b>SW8260B</b>				Analyst: KH
Benzene	ND	25.0		µg/Kg	5	4/19/2006 11:41:00 PM
Ethylbenzene	ND	35.9		µg/Kg	5	4/19/2006 11:41:00 PM
Toluene	ND	32.7		µg/Kg	5	4/19/2006 11:41:00 PM
Xylenes, Total	ND	50.8		µg/Kg	5	4/19/2006 11:41:00 PM
<b>TPH FOR SOLIDS</b>		<b>TX1005</b>				Analyst: JL
TPH (C6 - C35)	ND	50.0		mg/Kg	1	4/19/2006
TPH (C6 - C12)	ND	50.0		mg/Kg	1	4/19/2006
TPH (C12 - C35)	ND	50.0		mg/Kg	1	4/19/2006

**Qualifiers:** ND - Not Detected at the Reporting Limit  
 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  
 R - RPD outside accepted recovery limits  
 E - Value above quantitation range

CLIENT: Terracon  
 Lab Order: 0604101  
 Project:  
 Lab ID: 0604101-012A

Client Sample ID: B-8 (3')  
 Tag Number:  
 Collection Date: 4/11/2006  
 Matrix: SOLID

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
<b>METALS BY ICP-MS FOR SOLIDS</b>		<b>SW6020</b>				Analyst: HN
Arsenic	8.18	0.163		mg/Kg	1	5/1/2006 5:37:00 PM
Barium	2560	0.174		mg/Kg	1	5/1/2006 5:37:00 PM
Cadmium	1.00	0.177		mg/Kg	1	5/1/2006 5:37:00 PM
Chromium	164	0.0950		mg/Kg	1	5/1/2006 5:37:00 PM
Lead	125	0.323		mg/Kg	1	5/1/2006 5:37:00 PM
Mercury	0.166	0.0620		mg/Kg	1	5/1/2006 5:37:00 PM
Selenium	0.202	0.136		mg/Kg	1	5/1/2006 5:37:00 PM
Silver	0.201	0.0670		mg/Kg	1	5/1/2006 5:37:00 PM
<b>SEMIVOLATILE ORGANICS FOR SOLIDS</b>		<b>SV8270C</b>				Analyst: MB
1,2,4-Trichlorobenzene	ND	197		µg/Kg	1	4/26/2006 10:20:00 PM
1,2-Dichlorobenzene	ND	171		µg/Kg	1	4/26/2006 10:20:00 PM
1,3-Dichlorobenzene	ND	154		µg/Kg	1	4/26/2006 10:20:00 PM
1,4-Dichlorobenzene	ND	148		µg/Kg	1	4/26/2006 10:20:00 PM
2,4,5-Trichlorophenol	ND	248		µg/Kg	1	4/26/2006 10:20:00 PM
2,4,6-Trichlorophenol	ND	231		µg/Kg	1	4/26/2006 10:20:00 PM
2,4-Dichlorophenol	ND	205		µg/Kg	1	4/26/2006 10:20:00 PM
2,4-Dimethylphenol	ND	99.0		µg/Kg	1	4/26/2006 10:20:00 PM
2,4-Dinitrophenol	ND	302		µg/Kg	1	4/26/2006 10:20:00 PM
2,4-Dinitrotoluene	ND	230		µg/Kg	1	4/26/2006 10:20:00 PM
2,6-Dichlorophenol	ND	221		µg/Kg	1	4/26/2006 10:20:00 PM
2,6-Dinitrotoluene	ND	120		µg/Kg	1	4/26/2006 10:20:00 PM
2-Chloronaphthalene	ND	281		µg/Kg	1	4/26/2006 10:20:00 PM
2-Chlorophenol	ND	147		µg/Kg	1	4/26/2006 10:20:00 PM
2-Methylnaphthalene	114000	192		µg/Kg	1	4/26/2006 10:20:00 PM
2-Methylphenol	ND	184		µg/Kg	1	4/26/2006 10:20:00 PM
2-Nitroaniline	ND	137		µg/Kg	1	4/26/2006 10:20:00 PM
2-Nitrophenol	ND	251		µg/Kg	1	4/26/2006 10:20:00 PM
3,3'-Dichlorobenzidine	ND	170		µg/Kg	1	4/26/2006 10:20:00 PM
3-Nitroaniline	ND	193		µg/Kg	1	4/26/2006 10:20:00 PM
4,6-Dinitro-2-methylphenol	ND	241		µg/Kg	1	4/26/2006 10:20:00 PM
4-Bromophenyl phenyl ether	ND	135		µg/Kg	1	4/26/2006 10:20:00 PM
4-Chloro-3-methylphenol	ND	202		µg/Kg	1	4/26/2006 10:20:00 PM
4-Chloroaniline	ND	204		µg/Kg	1	4/26/2006 10:20:00 PM
4-Chlorophenyl phenyl ether	ND	151		µg/Kg	1	4/26/2006 10:20:00 PM
4-Methylphenol	ND	201		µg/Kg	1	4/26/2006 10:20:00 PM
4-Nitroaniline	ND	182		µg/Kg	1	4/26/2006 10:20:00 PM
4-Nitrophenol	ND	86.0		µg/Kg	1	4/26/2006 10:20:00 PM
Acenaphthene	20400	165		µg/Kg	1	4/26/2006 10:20:00 PM
Acenaphthylene	6950	168		µg/Kg	1	4/26/2006 10:20:00 PM
Aniline	ND	88.0		µg/Kg	1	4/26/2006 10:20:00 PM

Qualifiers: ND - Not Detected at the Reporting Limit S - Spike Recovery outside accepted recovery limits  
 J - Analyte detected below quantitation limits R - RPD outside accepted recovery limits  
 B - Analyte detected in the associated Method Blank E - Value above quantitation range  
 \* - Value exceeds Maximum Contaminant Level

Anacon, Inc.

Date: 21-May-06

CLIENT: Terracon  
 Lab Order: 0604101  
 Project:  
 Lab ID: 0604101-012A

Client Sample ID: B-8 (3')  
 Tag Number:  
 Collection Date: 4/11/2006  
 Matrix: SOLID

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
<b>SEMIVOLATILE ORGANICS FOR SOLIDS</b>		<b>SV8270C</b>		<b>()</b>		<b>Analyst: MB</b>
Anthracene	5420	125		µg/Kg	1	4/26/2006 10:20:00 PM
Benzenethiol	ND	120		µg/Kg	1	4/26/2006 10:20:00 PM
Benzidine	ND	120		µg/Kg	1	4/26/2006 10:20:00 PM
Benzo(a)anthracene	207	133		µg/Kg	1	4/26/2006 10:20:00 PM
Benzo(a)pyrene	ND	138		µg/Kg	1	4/26/2006 10:20:00 PM
Benzo(b)fluoranthene	ND	179		µg/Kg	1	4/26/2006 10:20:00 PM
Benzo(g,h,i)perylene	ND	125		µg/Kg	1	4/26/2006 10:20:00 PM
Benzo(k)fluoranthene	ND	99.0		µg/Kg	1	4/26/2006 10:20:00 PM
Benzoic acid	ND	63.0		µg/Kg	1	4/26/2006 10:20:00 PM
Benzyl alcohol	ND	197		µg/Kg	1	4/26/2006 10:20:00 PM
bis(2-chloroethoxy)methane	ND	167		µg/Kg	1	4/26/2006 10:20:00 PM
bis(2-chloroethyl)ether	ND	129		µg/Kg	1	4/26/2006 10:20:00 PM
bis(2-chloroisopropyl)ether	ND	641		µg/Kg	1	4/26/2006 10:20:00 PM
bis(2-ethylhexyl)adipate	ND	167		µg/Kg	1	4/26/2006 10:20:00 PM
bis(2-ethylhexyl)phthalate	3240	144		µg/Kg	1	4/26/2006 10:20:00 PM
Butyl benzyl phthalate	ND	146		µg/Kg	1	4/26/2006 10:20:00 PM
Chrysene	400	124		µg/Kg	1	4/26/2006 10:20:00 PM
Cresols (total)	ND	385		µg/Kg	1	4/26/2006 10:20:00 PM
Di-n-butyl phthalate	ND	105		µg/Kg	1	4/26/2006 10:20:00 PM
Di-n-octyl phthalate	ND	148		µg/Kg	1	4/26/2006 10:20:00 PM
Dibenz(a,h)acridine	ND	120		µg/Kg	1	4/26/2006 10:20:00 PM
Dibenz(a,h)anthracene	ND	130		µg/Kg	1	4/26/2006 10:20:00 PM
Dibenzofuran	ND	163		µg/Kg	1	4/26/2006 10:20:00 PM
dicofol	ND	300		µg/Kg	1	4/26/2006 10:20:00 PM
Diethyl phthalate	ND	132		µg/Kg	1	4/26/2006 10:20:00 PM
Dimethyl phthalate	ND	152		µg/Kg	1	4/26/2006 10:20:00 PM
Fluoranthene	2230	132		µg/Kg	1	4/26/2006 10:20:00 PM
Fluorene	27700	157		µg/Kg	1	4/26/2006 10:20:00 PM
Hexachlorobenzene	ND	123		µg/Kg	1	4/26/2006 10:20:00 PM
Hexachlorobutadiene	ND	181		µg/Kg	1	4/26/2006 10:20:00 PM
Hexachlorocyclopentadiene	ND	223		µg/Kg	1	4/26/2006 10:20:00 PM
Hexachloroethane	ND	199		µg/Kg	1	4/26/2006 10:20:00 PM
hexachlorophene	ND	250		µg/Kg	1	4/26/2006 10:20:00 PM
1-methyl naphthalene	ND	120		µg/Kg	1	4/26/2006 10:20:00 PM
Indene	ND	120		µg/Kg	1	4/26/2006 10:20:00 PM
Indeno(1,2,3-cd)pyrene	ND	125		µg/Kg	1	4/26/2006 10:20:00 PM
Isophorone	ND	157		µg/Kg	1	4/26/2006 10:20:00 PM
Methyl chrysene	ND	120		µg/Kg	1	4/26/2006 10:20:00 PM
N-Nitroso-di-n-butylamine	ND	250		µg/Kg	1	4/26/2006 10:20:00 PM
n-Nitrosodi-n-propylamine	ND	158		µg/Kg	1	4/26/2006 10:20:00 PM

Qualifiers: ND - Not Detected at the Reporting Limit  
 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  
 R - RPD outside accepted recovery limits  
 E - Value above quantitation range

CLIENT: Terracon  
 Lab Order: 0604101  
 Project:  
 Lab ID: 0604101-012A

Client Sample ID: B-8 (3')  
 Tag Number:  
 Collection Date: 4/11/2006  
 Matrix: SOLID

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
<b>SEMIVOLATILE ORGANICS FOR SOLIDS</b>		<b>SV8270C</b>		<b>()</b>		<b>Analyst: MB</b>
n-Nitrosodiethylamine	ND	250		µg/Kg	1	4/26/2006 10:20:00 PM
n-Nitrosodimethylamine	ND	130		µg/Kg	1	4/26/2006 10:20:00 PM
n-Nitrosodiphenylamine	ND	83.0		µg/Kg	1	4/26/2006 10:20:00 PM
Naphthalene	31500	166		µg/Kg	1	4/26/2006 10:20:00 PM
Nitrobenzene	ND	121		µg/Kg	1	4/26/2006 10:20:00 PM
Pentachlorobenzene	ND	161		µg/Kg	1	4/26/2006 10:20:00 PM
Pentachlorophenol	ND	240		µg/Kg	1	4/26/2006 10:20:00 PM
Phenanthrene	30700	117		µg/Kg	1	4/26/2006 10:20:00 PM
Phenol	ND	125		µg/Kg	1	4/26/2006 10:20:00 PM
Pyrene	3390	177		µg/Kg	1	4/26/2006 10:20:00 PM
Pyridine	ND	120		µg/Kg	1	4/26/2006 10:20:00 PM
Quinoline	ND	120		µg/Kg	1	4/26/2006 10:20:00 PM
<b>VOLATILES BY GC/MS FOR SOLIDS</b>		<b>SW8260B</b>				<b>Analyst: KH</b>
1,1,1,2-Tetrachloroethane	ND	2940		µg/Kg	500	4/25/2006 3:16:00 PM
1,1,1-Trichloroethane	ND	3220		µg/Kg	500	4/25/2006 3:16:00 PM
1,1,2,2-Tetrachloroethane	ND	2020		µg/Kg	500	4/25/2006 3:16:00 PM
1,1,2-Trichloroethane	ND	1910		µg/Kg	500	4/25/2006 3:16:00 PM
1,1-Dichloroethane	ND	2890		µg/Kg	500	4/25/2006 3:16:00 PM
1,1-Dichloroethene	ND	3240		µg/Kg	500	4/25/2006 3:16:00 PM
1,1-Dichloropropene	ND	3640		µg/Kg	500	4/25/2006 3:16:00 PM
1,2,3-Trichlorobenzene	ND	3410		µg/Kg	500	4/25/2006 3:16:00 PM
1,2,3-Trichloropropane	ND	4140		µg/Kg	500	4/25/2006 3:16:00 PM
1,2,4,5-Tetrachlorobenzene	ND	0		µg/Kg	500	4/25/2006 3:16:00 PM
1,2,4-Trichlorobenzene	ND	3200		µg/Kg	500	4/25/2006 3:16:00 PM
1,2,4-Trimethylbenzene	17100	3660		µg/Kg	500	4/25/2006 3:16:00 PM
1,2-Dibromo-3-chloropropane	ND	4310		µg/Kg	500	4/25/2006 3:16:00 PM
1,2-Dibromoethane	ND	1560		µg/Kg	500	4/25/2006 3:16:00 PM
1,2-Dichlorobenzene	ND	2880		µg/Kg	500	4/25/2006 3:16:00 PM
1,2-Dichloroethane	ND	2150		µg/Kg	500	4/25/2006 3:16:00 PM
1,2-Dichloropropane	ND	2900		µg/Kg	500	4/25/2006 3:16:00 PM
1,3,5-Trimethylbenzene	7050	4820		µg/Kg	500	4/25/2006 3:16:00 PM
1,3-Dichlorobenzene	ND	3050		µg/Kg	500	4/25/2006 3:16:00 PM
1,3-Dichloropropane	ND	2220		µg/Kg	500	4/25/2006 3:16:00 PM
1,3-Dichloropropene	ND	2500		µg/Kg	500	4/25/2006 3:16:00 PM
1,4-Dichlorobenzene	ND	2890		µg/Kg	500	4/25/2006 3:16:00 PM
2,2-Dichloropropane	ND	3270		µg/Kg	500	4/25/2006 3:16:00 PM
2-Butanone	ND	2440		µg/Kg	500	4/25/2006 3:16:00 PM
2-Chloroethyl vinyl ether	ND	16800		µg/Kg	500	4/25/2006 3:16:00 PM
2-Chlorotoluene	ND	4130		µg/Kg	500	4/25/2006 3:16:00 PM
2-Hexanone	ND	10400		µg/Kg	500	4/25/2006 3:16:00 PM

Qualifiers: ND - Not Detected at the Reporting Limit      S - Spike Recovery outside accepted recovery limits  
 J - Analyte detected below quantitation limits      R - RPD outside accepted recovery limits  
 B - Analyte detected in the associated Method Blank      E - Value above quantitation range  
 \* - Value exceeds Maximum Contaminant Level

CLIENT: Terracon  
 Lab Order: 0604101  
 Project:  
 Lab ID: 0604101-012A

Client Sample ID: B-8 (3')  
 Tag Number:  
 Collection Date: 4/11/2006  
 Matrix: SOLID

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
<b>VOLATILES BY GC/MS FOR SOLIDS</b>		<b>SW8260B</b>		Analyst: KH		
4-Chlorotoluene	ND	3100		µg/Kg	500	4/25/2006 3:16:00 PM
4-Isopropyltoluene	ND	4320		µg/Kg	500	4/25/2006 3:16:00 PM
4-Methyl-2-pentanone	ND	9810		µg/Kg	500	4/25/2006 3:16:00 PM
Acetone	ND	2330		µg/Kg	500	4/25/2006 3:16:00 PM
Acrolein	ND	2500		µg/Kg	500	4/25/2006 3:16:00 PM
Acrylonitrile	ND	12500		µg/Kg	500	4/25/2006 3:16:00 PM
Benzene	ND	2500		µg/Kg	500	4/25/2006 3:16:00 PM
Bromobenzene	ND	2990		µg/Kg	500	4/25/2006 3:16:00 PM
Bromochloromethane	ND	2960		µg/Kg	500	4/25/2006 3:16:00 PM
Bromodichloromethane	ND	2870		µg/Kg	500	4/25/2006 3:16:00 PM
Bromoform	ND	1400		µg/Kg	500	4/25/2006 3:16:00 PM
Bromomethane	ND	2650		µg/Kg	500	4/25/2006 3:16:00 PM
Carbon disulfide	ND	2780		µg/Kg	500	4/25/2006 3:16:00 PM
Carbon tetrachloride	ND	3920		µg/Kg	500	4/25/2006 3:16:00 PM
Chlorobenzene	ND	3070		µg/Kg	500	4/25/2006 3:16:00 PM
Chloroethane	ND	3170		µg/Kg	500	4/25/2006 3:16:00 PM
Chloroform	ND	3060		µg/Kg	500	4/25/2006 3:16:00 PM
Chloromethane	ND	3770		µg/Kg	500	4/25/2006 3:16:00 PM
cis-1,2-Dichloroethene	ND	2750		µg/Kg	500	4/25/2006 3:16:00 PM
cis-1,3-Dichloropropene	ND	2690		µg/Kg	500	4/25/2006 3:16:00 PM
Dibromochloromethane	ND	2090		µg/Kg	500	4/25/2006 3:16:00 PM
Dibromomethane	ND	2370		µg/Kg	500	4/25/2006 3:16:00 PM
Dichlorodifluoromethane	ND	3290		µg/Kg	500	4/25/2006 3:16:00 PM
Ethylbenzene	ND	3590		µg/Kg	500	4/25/2006 3:16:00 PM
Hexachlorobutadiene	ND	4160		µg/Kg	500	4/25/2006 3:16:00 PM
Iodomethane	ND	2820		µg/Kg	500	4/25/2006 3:16:00 PM
Isopropylbenzene	ND	3680		µg/Kg	500	4/25/2006 3:16:00 PM
m,p-Xylene	7860	2320		µg/Kg	500	4/25/2006 3:16:00 PM
Methyl tert-butyl ether	ND	2500		µg/Kg	500	4/25/2006 3:16:00 PM
Methylene chloride	ND	2200		µg/Kg	500	4/25/2006 3:16:00 PM
n-Butylbenzene	ND	3850		µg/Kg	500	4/25/2006 3:16:00 PM
n-Propylbenzene	ND	3720		µg/Kg	500	4/25/2006 3:16:00 PM
Naphthalene	32000	3720		µg/Kg	500	4/25/2006 3:16:00 PM
o-Xylene	3660	3300		µg/Kg	500	4/25/2006 3:16:00 PM
sec-Butylbenzene	ND	3540		µg/Kg	500	4/25/2006 3:16:00 PM
Styrene	ND	2920		µg/Kg	500	4/25/2006 3:16:00 PM
tert-Butylbenzene	ND	3640		µg/Kg	500	4/25/2006 3:16:00 PM
Tetrachloroethene	ND	3510		µg/Kg	500	4/25/2006 3:16:00 PM
Toluene	ND	3270		µg/Kg	500	4/25/2006 3:16:00 PM
trans-1,2-Dichloroethene	ND	3270		µg/Kg	500	4/25/2006 3:16:00 PM

Qualifiers: ND - Not Detected at the Reporting Limit      S - Spike Recovery outside accepted recovery limits  
 J - Analyte detected below quantitation limits      R - RPD outside accepted recovery limits  
 B - Analyte detected in the associated Method Blank      E - Value above quantitation range  
 \* - Value exceeds Maximum Contaminant Level

**Anacon, Inc.**

Date: 21-May-06

**CLIENT:** Terracon  
**Lab Order:** 0604101  
**Project:**  
**Lab ID:** 0604101-012A

**Client Sample ID:** B-8 (3')  
**Tag Number:**  
**Collection Date:** 4/11/2006  
**Matrix:** SOLID

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
<b>VOLATILES BY GC/MS FOR SOLIDS</b>		<b>SW8260B</b>				Analyst: KH
trans-1,3-Dichloropropene	ND	2200		µg/Kg	500	4/25/2006 3:16:00 PM
Trichloroethene	ND	3810		µg/Kg	500	4/25/2006 3:16:00 PM
Trichlorofluoromethane	ND	3270		µg/Kg	500	4/25/2006 3:16:00 PM
Vinyl acetate	ND	23300		µg/Kg	500	4/25/2006 3:16:00 PM
Vinyl chloride	ND	3510		µg/Kg	500	4/25/2006 3:16:00 PM
Xylenes, Total	11500	5080		µg/Kg	500	4/25/2006 3:16:00 PM
<b>TPH FOR SOLIDS</b>		<b>TX1005</b>				Analyst: JL
TPH (C6 - C35)	34700	50.0		mg/Kg	1	4/19/2006
TPH (C6 - C12)	4930	50.0		mg/Kg	1	4/19/2006
TPH (C12 - C35)	29800	50.0		mg/Kg	1	4/19/2006
<b>CHLORIDE</b>		<b>M4500-CL B</b>				Analyst: SB
Chloride	2900	10.0		mg/Kg	1	4/27/2006 1:05:00 PM
<b>SPECIFIC CONDUCTANCE</b>		<b>E120.1</b>				Analyst: SB
Conductivity	4500	1.00		µmhos/cm	1	4/27/2006 2:30:00 PM
<b>PH</b>		<b>9045C</b>				Analyst: SB
pH	8.26	0		pH Units	1	4/27/2006
<b>SODIUM ABSORPTION RATIO</b>		<b>AG HANDBOOK #60</b>				Analyst: HN
SAR	25.5	0			1	5/5/2006

**Qualifiers:** ND - Not Detected at the Reporting Limit  
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 \* - Value exceeds Maximum Contaminant Level  
 S - Spike Recovery outside accepted recovery limits  
 R - RPD outside accepted recovery limits  
 E - Value above quantitation range

Anacon, Inc.  
 730 FM 1959  
 Houston, TX 77034  
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 Fax: (281) 481-0089

<b>Terracon</b>	<b>ANACON NUMBER</b>	0604101
<b>11555 Clay Rd.</b>	<b>DATE COLLECTED</b>	04/11/06
<b>Houston, TX 77043</b>	<b>DATE RECEIVED</b>	04/13/06
<b>ATTN: Steve Neely</b>	<b>DATE OF REPORT</b>	04/30/06

<b>LAB ID:</b>	0604101-012A	<b>SAMPLE MATRIX:</b>	Solid
<b>SAMPLE ID:</b>	B-8 (3')		

**TOTAL PETROLEUM HYDROCARBONS (TPH) ANALYSIS**

<b>PARAMETER</b>	<b>METHOD</b>	<b>DATE ANALYZED</b>	<b>REPORTING LIMIT (mg/Kg)</b>	<b>RESULT (mg/Kg)</b>
TPH (C6-C35)	TNRCC - 1006	04/25/06	50.0	34,700
ALIPHATIC (C6-C8)	TNRCC - 1006	04/25/06	5.00	<5.00
AROMATIC (C6-C8)	TNRCC - 1006	04/25/06	5.00	<5.00
ALIPHATIC (C8-C10)	TNRCC - 1006	04/25/06	5.00	904
AROMATIC (C8-C10)	TNRCC - 1006	04/25/06	5.00	<5.00
ALIPHATIC (C10-C12)	TNRCC - 1006	04/25/06	5.00	3,870
AROMATIC (C10-C12)	TNRCC - 1006	04/25/06	5.00	156
ALIPHATIC (C12-C16)	TNRCC - 1006	04/25/06	5.00	13,900
AROMATIC (C12-C16)	TNRCC - 1006	04/25/06	5.00	2,000
ALIPHATIC (C16-C21)	TNRCC - 1006	04/25/06	5.00	9,260
AROMATIC (C16-C21)	TNRCC - 1006	04/25/06	5.00	2,070
ALIPHATIC (C21-C35)	TNRCC - 1006	04/25/06	5.00	2,290
AROMATIC (C21-C35)	TNRCC - 1006	04/25/06	5.00	323

CLIENT: Terracon  
 Lab Order: 0604101  
 Project:  
 Lab ID: 0604101-013A

Client Sample ID: B-8 (6-7)  
 Tag Number:  
 Collection Date: 4/11/2006  
 Matrix: SOLID

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
<b>VOLATILES BY GC/MS FOR SOLIDS</b>		<b>SW8260B</b>				Analyst: KH
Benzene	ND	25.0		µg/Kg	5	4/25/2006 2:47:00 PM
Ethylbenzene	ND	35.9		µg/Kg	5	4/25/2006 2:47:00 PM
Toluene	ND	32.7		µg/Kg	5	4/25/2006 2:47:00 PM
Xylenes, Total	ND	50.8		µg/Kg	5	4/25/2006 2:47:00 PM
<b>TPH FOR SOLIDS</b>		<b>TX1005</b>				Analyst: JL
TPH (C6 - C35)	ND	50.0		mg/Kg	1	4/19/2006
TPH (C6 - C12)	ND	50.0		mg/Kg	1	4/19/2006
TPH (C12 - C35)	ND	50.0		mg/Kg	1	4/19/2006

**Qualifiers:** ND - Not Detected at the Reporting Limit  
 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  
 R - RPD outside accepted recovery limits  
 E - Value above quantitation range

**Anacon, Inc.**

Date: 21-May-06

**CLIENT:** Terracon  
**Lab Order:** 0604101  
**Project:**  
**Lab ID:** 0604101-014A

**Client Sample ID:** Pit A (2')  
**Tag Number:**  
**Collection Date:** 4/11/2006  
**Matrix:** SOLID

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
<b>VOLATILES BY GC/MS FOR SOLIDS</b>		<b>SW8260B</b>				Analyst: KH
Benzene	ND	25.0		µg/Kg	5	4/25/2006 3:15:00 PM
Ethylbenzene	ND	35.9		µg/Kg	5	4/25/2006 3:15:00 PM
Toluene	ND	32.7		µg/Kg	5	4/25/2006 3:15:00 PM
Xylenes, Total	ND	50.8		µg/Kg	5	4/25/2006 3:15:00 PM
<b>TPH FOR SOLIDS</b>		<b>TX1005</b>				Analyst: JL
TPH (C6 - C35)	3950	50.0		mg/Kg	1	4/19/2006
TPH (C6 - C12)	616	50.0		mg/Kg	1	4/19/2006
TPH (C12 - C35)	3330	50.0		mg/Kg	1	4/19/2006

**Qualifiers:** ND - Not Detected at the Reporting Limit  
 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  
 R - RPD outside accepted recovery limits  
 E - Value above quantitation range

**Anacon, Inc.**

Date: 21-May-06

**CLIENT:** Terracon  
**Lab Order:** 0604101  
**Project:**  
**Lab ID:** 0604101-015A

**Client Sample ID:** Pit #1 (2)  
**Tag Number:**  
**Collection Date:** 4/11/2006  
**Matrix:** SOLID

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
<b>VOLATILES BY GC/MS FOR SOLIDS</b>		<b>SW8260B</b>				Analyst: KH
Benzene	ND	25.0		µg/Kg	5	4/25/2006 3:44:00 PM
Ethylbenzene	ND	35.9		µg/Kg	5	4/25/2006 3:44:00 PM
Toluene	ND	32.7		µg/Kg	5	4/25/2006 3:44:00 PM
Xylenes, Total	ND	50.8		µg/Kg	5	4/25/2006 3:44:00 PM
<b>TPH FOR SOLIDS</b>		<b>TX1005</b>				Analyst: JL
TPH (C6 - C35)	1630	50.0		mg/Kg	1	4/19/2006
TPH (C6 - C12)	284	50.0		mg/Kg	1	4/19/2006
TPH (C12 - C35)	1350	50.0		mg/Kg	1	4/19/2006

**Qualifiers:** ND - Not Detected at the Reporting Limit  
 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  
 R - RPD outside accepted recovery limits  
 E - Value above quantitation range

CLIENT: Terracon  
 Lab Order: 0604101  
 Project:  
 Lab ID: 0604101-016A

Client Sample ID: Pit #2 (2')  
 Tag Number:  
 Collection Date: 4/11/2006  
 Matrix: SOLID

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
<b>VOLATILES BY GC/MS FOR SOLIDS</b>		<b>SW8260B</b>				Analyst: KH
Benzene	ND	25.0		µg/Kg	5	4/25/2006 4:14:00 PM
Ethylbenzene	ND	35.9		µg/Kg	5	4/25/2006 4:14:00 PM
Toluene	ND	32.7		µg/Kg	5	4/25/2006 4:14:00 PM
Xylenes, Total	ND	50.8		µg/Kg	5	4/25/2006 4:14:00 PM
<b>TPH FOR SOLIDS</b>		<b>TX1005</b>				Analyst: JL
TPH (C6 - C35)	1560	50.0		mg/Kg	1	4/19/2006
TPH (C6 - C12)	ND	50.0		mg/Kg	1	4/19/2006
TPH (C12 - C35)	1560	50.0		mg/Kg	1	4/19/2006

**Qualifiers:** ND - Not Detected at the Reporting Limit  
 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  
 R - RPD outside accepted recovery limits  
 E - Value above quantitation range

**Anacon, Inc.**

Date: 21-May-06

**CLIENT:** Terracon  
**Lab Order:** 0604101  
**Project:**  
**Lab ID:** 0604101-017A

**Client Sample ID:** Pit #3 (2')  
**Tag Number:**  
**Collection Date:** 4/11/2006  
**Matrix:** SOLID

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
<b>VOLATILES BY GC/MS FOR SOLIDS</b>		<b>SW8260B</b>				Analyst: KH
Benzene	ND	25.0		µg/Kg	5	4/25/2006 4:43:00 PM
Ethylbenzene	ND	35.9		µg/Kg	5	4/25/2006 4:43:00 PM
Toluene	ND	32.7		µg/Kg	5	4/25/2006 4:43:00 PM
Xylenes, Total	ND	50.8		µg/Kg	5	4/25/2006 4:43:00 PM
<b>TPH FOR SOLIDS</b>		<b>TX1005</b>				Analyst: JL
TPH (C6 - C35)	2730	50.0		mg/Kg	1	4/19/2006
TPH (C6 - C12)	482	50.0		mg/Kg	1	4/19/2006
TPH (C12 - C35)	2250	50.0		mg/Kg	1	4/19/2006

**Qualifiers:** ND - Not Detected at the Reporting Limit  
 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  
 R - RPD outside accepted recovery limits  
 E - Value above quantitation range

CLIENT: Terracon  
 Lab Order: 0604101  
 Project:  
 Lab ID: 0604101-018A

Client Sample ID: Pit #4 (2')  
 Tag Number:  
 Collection Date: 4/11/2006  
 Matrix: SOLID

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
<b>METALS BY ICP-MS FOR SOLIDS</b>		<b>SW6020</b>				Analyst: HN
Arsenic	5.26	0.163		mg/Kg	1	5/1/2006 5:42:00 PM
Barium	1240	0.174		mg/Kg	1	5/1/2006 5:42:00 PM
Cadmium	0.484	0.177		mg/Kg	1	5/1/2006 5:42:00 PM
Chromium	420	0.0950		mg/Kg	1	5/1/2006 5:42:00 PM
Lead	83.6	0.323		mg/Kg	1	5/1/2006 5:42:00 PM
Mercury	0.185	0.0620		mg/Kg	1	5/1/2006 5:42:00 PM
Selenium	0.160	0.136		mg/Kg	1	5/1/2006 5:42:00 PM
Silver	0.208	0.0670		mg/Kg	1	5/1/2006 5:42:00 PM
<b>SEMIVOLATILE ORGANICS FOR SOLIDS</b>		<b>SV8270C</b>		<b>( )</b>		Analyst: MB
1,2,4-Trichlorobenzene	ND	197		µg/Kg	1	4/26/2006 10:54:00 PM
1,2-Dichlorobenzene	ND	171		µg/Kg	1	4/26/2006 10:54:00 PM
1,3-Dichlorobenzene	ND	154		µg/Kg	1	4/26/2006 10:54:00 PM
1,4-Dichlorobenzene	ND	148		µg/Kg	1	4/26/2006 10:54:00 PM
2,4,5-Trichlorophenol	ND	248		µg/Kg	1	4/26/2006 10:54:00 PM
2,4,6-Trichlorophenol	ND	231		µg/Kg	1	4/26/2006 10:54:00 PM
2,4-Dichlorophenol	ND	205		µg/Kg	1	4/26/2006 10:54:00 PM
2,4-Dimethylphenol	ND	99.0		µg/Kg	1	4/26/2006 10:54:00 PM
2,4-Dinitrophenol	ND	302		µg/Kg	1	4/26/2006 10:54:00 PM
2,4-Dinitrotoluene	ND	230		µg/Kg	1	4/26/2006 10:54:00 PM
2,6-Dichlorophenol	ND	221		µg/Kg	1	4/26/2006 10:54:00 PM
2,6-Dinitrotoluene	ND	120		µg/Kg	1	4/26/2006 10:54:00 PM
2-Chloronaphthalene	ND	281		µg/Kg	1	4/26/2006 10:54:00 PM
2-Chlorophenol	ND	147		µg/Kg	1	4/26/2006 10:54:00 PM
2-Methylnaphthalene	3150	192		µg/Kg	1	4/26/2006 10:54:00 PM
2-Methylphenol	ND	184		µg/Kg	1	4/26/2006 10:54:00 PM
2-Nitroaniline	ND	137		µg/Kg	1	4/26/2006 10:54:00 PM
2-Nitrophenol	ND	251		µg/Kg	1	4/26/2006 10:54:00 PM
3,3'-Dichlorobenzidine	ND	170		µg/Kg	1	4/26/2006 10:54:00 PM
3-Nitroaniline	ND	193		µg/Kg	1	4/26/2006 10:54:00 PM
4,6-Dinitro-2-methylphenol	ND	241		µg/Kg	1	4/26/2006 10:54:00 PM
4-Bromophenyl phenyl ether	ND	135		µg/Kg	1	4/26/2006 10:54:00 PM
4-Chloro-3-methylphenol	ND	202		µg/Kg	1	4/26/2006 10:54:00 PM
4-Chloroaniline	ND	204		µg/Kg	1	4/26/2006 10:54:00 PM
4-Chlorophenyl phenyl ether	ND	151		µg/Kg	1	4/26/2006 10:54:00 PM
4-Methylphenol	ND	201		µg/Kg	1	4/26/2006 10:54:00 PM
4-Nitroaniline	ND	182		µg/Kg	1	4/26/2006 10:54:00 PM
4-Nitrophenol	ND	86.0		µg/Kg	1	4/26/2006 10:54:00 PM
Acenaphthene	804	165		µg/Kg	1	4/26/2006 10:54:00 PM
Acenaphthylene	ND	168		µg/Kg	1	4/26/2006 10:54:00 PM
Aniline	ND	88.0		µg/Kg	1	4/26/2006 10:54:00 PM

**Qualifiers:** ND - Not Detected at the Reporting Limit  
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 B - Analyte detected in the associated Method Blank  
 \* - Value exceeds Maximum Contaminant Level  
 S - Spike Recovery outside accepted recovery limits  
 R - RPD outside accepted recovery limits  
 E - Value above quantitation range

CLIENT: Terracon  
 Lab Order: 0604101  
 Project:  
 Lab ID: 0604101-018A

Client Sample ID: Pit #4 (2')  
 Tag Number:  
 Collection Date: 4/11/2006  
 Matrix: SOLID

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
<b>SEMIVOLATILE ORGANICS FOR SOLIDS</b>		<b>SV8270C</b>		<b>()</b>		<b>Analyst: MB</b>
Anthracene	150	125		µg/Kg	1	4/26/2006 10:54:00 PM
Benzenethiol	ND	120		µg/Kg	1	4/26/2006 10:54:00 PM
Benzidine	ND	120		µg/Kg	1	4/26/2006 10:54:00 PM
Benzo(a)anthracene	ND	133		µg/Kg	1	4/26/2006 10:54:00 PM
Benzo(a)pyrene	ND	138		µg/Kg	1	4/26/2006 10:54:00 PM
Benzo(b)fluoranthene	ND	179		µg/Kg	1	4/26/2006 10:54:00 PM
Benzo(g,h,i)perylene	ND	125		µg/Kg	1	4/26/2006 10:54:00 PM
Benzo(k)fluoranthene	ND	99.0		µg/Kg	1	4/26/2006 10:54:00 PM
Benzoic acid	ND	63.0		µg/Kg	1	4/26/2006 10:54:00 PM
Benzyl alcohol	ND	197		µg/Kg	1	4/26/2006 10:54:00 PM
bis(2-chloroethoxy)methane	ND	167		µg/Kg	1	4/26/2006 10:54:00 PM
bis(2-chloroethyl)ether	ND	129		µg/Kg	1	4/26/2006 10:54:00 PM
bis(2-chloroisopropyl)ether	ND	641		µg/Kg	1	4/26/2006 10:54:00 PM
bis(2-ethylhexyl)adipate	ND	167		µg/Kg	1	4/26/2006 10:54:00 PM
bis(2-ethylhexyl)phthalate	598	144		µg/Kg	1	4/26/2006 10:54:00 PM
Butyl benzyl phthalate	ND	146		µg/Kg	1	4/26/2006 10:54:00 PM
Chrysene	ND	124		µg/Kg	1	4/26/2006 10:54:00 PM
Cresols (total)	ND	385		µg/Kg	1	4/26/2006 10:54:00 PM
Di-n-butyl phthalate	ND	105		µg/Kg	1	4/26/2006 10:54:00 PM
Di-n-octyl phthalate	ND	148		µg/Kg	1	4/26/2006 10:54:00 PM
Dibenz(a,h)acridine	ND	120		µg/Kg	1	4/26/2006 10:54:00 PM
Dibenz(a,h)anthracene	ND	130		µg/Kg	1	4/26/2006 10:54:00 PM
Dibenzofuran	ND	163		µg/Kg	1	4/26/2006 10:54:00 PM
dicofol	ND	300		µg/Kg	1	4/26/2006 10:54:00 PM
Diethyl phthalate	ND	132		µg/Kg	1	4/26/2006 10:54:00 PM
Dimethyl phthalate	ND	152		µg/Kg	1	4/26/2006 10:54:00 PM
Fluoranthene	140	132		µg/Kg	1	4/26/2006 10:54:00 PM
Fluorene	1370	157		µg/Kg	1	4/26/2006 10:54:00 PM
Hexachlorobenzene	ND	123		µg/Kg	1	4/26/2006 10:54:00 PM
Hexachlorobutadiene	ND	181		µg/Kg	1	4/26/2006 10:54:00 PM
Hexachlorocyclopentadiene	ND	223		µg/Kg	1	4/26/2006 10:54:00 PM
Hexachloroethane	ND	199		µg/Kg	1	4/26/2006 10:54:00 PM
hexachlorophene	ND	250		µg/Kg	1	4/26/2006 10:54:00 PM
l-methyl naphthalene	ND	120		µg/Kg	1	4/26/2006 10:54:00 PM
Indene	ND	120		µg/Kg	1	4/26/2006 10:54:00 PM
Indeno(1,2,3-cd)pyrene	ND	125		µg/Kg	1	4/26/2006 10:54:00 PM
Isophorone	ND	157		µg/Kg	1	4/26/2006 10:54:00 PM
Methyl chrysene	ND	120		µg/Kg	1	4/26/2006 10:54:00 PM
N-Nitroso-di-n-butylamine	ND	250		µg/Kg	1	4/26/2006 10:54:00 PM
n-Nitrosodi-n-propylamine	ND	158		µg/Kg	1	4/26/2006 10:54:00 PM

Qualifiers: ND - Not Detected at the Reporting Limit  
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 \* - Value exceeds Maximum Contaminant Level  
 S - Spike Recovery outside accepted recovery limits  
 R - RPD outside accepted recovery limits  
 E - Value above quantitation range

CLIENT: Terracon  
 Lab Order: 0604101  
 Project:  
 Lab ID: 0604101-018A

Client Sample ID: Pit #4 (2')  
 Tag Number:  
 Collection Date: 4/11/2006  
 Matrix: SOLID

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
<b>SEMIVOLATILE ORGANICS FOR SOLIDS</b>		<b>SV8270C</b>		<b>()</b>		<b>Analyst: MB</b>
n-Nitrosodiethylamine	ND	250		µg/Kg	1	4/26/2006 10:54:00 PM
n-Nitrosodimethylamine	ND	130		µg/Kg	1	4/26/2006 10:54:00 PM
n-Nitrosodiphenylamine	ND	83.0		µg/Kg	1	4/26/2006 10:54:00 PM
Naphthalene	738	166		µg/Kg	1	4/26/2006 10:54:00 PM
Nitrobenzene	ND	121		µg/Kg	1	4/26/2006 10:54:00 PM
Pentachlorobenzene	ND	161		µg/Kg	1	4/26/2006 10:54:00 PM
Pentachlorophenol	ND	240		µg/Kg	1	4/26/2006 10:54:00 PM
Phenanthrene	2960	117		µg/Kg	1	4/26/2006 10:54:00 PM
Phenol	ND	125		µg/Kg	1	4/26/2006 10:54:00 PM
Pyrene	467	177		µg/Kg	1	4/26/2006 10:54:00 PM
Pyridine	ND	120		µg/Kg	1	4/26/2006 10:54:00 PM
Quinoline	ND	120		µg/Kg	1	4/26/2006 10:54:00 PM
<b>VOLATILES BY GC/MS FOR SOLIDS</b>		<b>SW8260B</b>				<b>Analyst: KH</b>
1,1,1,2-Tetrachloroethane	ND	29.4		µg/Kg	5	4/29/2006 10:28:00 AM
1,1,1-Trichloroethane	ND	32.2		µg/Kg	5	4/29/2006 10:28:00 AM
1,1,2,2-Tetrachloroethane	ND	20.2		µg/Kg	5	4/29/2006 10:28:00 AM
1,1,2-Trichloroethane	ND	19.1		µg/Kg	5	4/29/2006 10:28:00 AM
1,1-Dichloroethane	ND	28.9		µg/Kg	5	4/29/2006 10:28:00 AM
1,1-Dichloroethene	ND	32.4		µg/Kg	5	4/29/2006 10:28:00 AM
1,1-Dichloropropene	ND	36.4		µg/Kg	5	4/29/2006 10:28:00 AM
1,2,3-Trichlorobenzene	ND	34.1		µg/Kg	5	4/29/2006 10:28:00 AM
1,2,3-Trichloropropane	ND	41.4		µg/Kg	5	4/29/2006 10:28:00 AM
1,2,4,5-Tetrachlorobenzene	ND	0		µg/Kg	5	4/29/2006 10:28:00 AM
1,2,4-Trichlorobenzene	ND	32.0		µg/Kg	5	4/29/2006 10:28:00 AM
1,2,4-Trimethylbenzene	ND	36.6		µg/Kg	5	4/29/2006 10:28:00 AM
1,2-Dibromo-3-chloropropane	ND	43.1		µg/Kg	5	4/29/2006 10:28:00 AM
1,2-Dibromoethane	ND	15.6		µg/Kg	5	4/29/2006 10:28:00 AM
1,2-Dichlorobenzene	ND	28.8		µg/Kg	5	4/29/2006 10:28:00 AM
1,2-Dichloroethane	ND	21.5		µg/Kg	5	4/29/2006 10:28:00 AM
1,2-Dichloropropane	ND	29.0		µg/Kg	5	4/29/2006 10:28:00 AM
1,3,5-Trimethylbenzene	ND	48.2		µg/Kg	5	4/29/2006 10:28:00 AM
1,3-Dichlorobenzene	ND	30.5		µg/Kg	5	4/29/2006 10:28:00 AM
1,3-Dichloropropane	ND	22.2		µg/Kg	5	4/29/2006 10:28:00 AM
1,3-Dichloropropene	ND	25.0		µg/Kg	5	4/29/2006 10:28:00 AM
1,4-Dichlorobenzene	ND	28.9		µg/Kg	5	4/29/2006 10:28:00 AM
2,2-Dichloropropane	ND	32.7		µg/Kg	5	4/29/2006 10:28:00 AM
2-Butanone	ND	24.4		µg/Kg	5	4/29/2006 10:28:00 AM
2-Chloroethyl vinyl ether	ND	168		µg/Kg	5	4/29/2006 10:28:00 AM
2-Chlorotoluene	ND	41.3		µg/Kg	5	4/29/2006 10:28:00 AM
2-Hexanone	ND	104		µg/Kg	5	4/29/2006 10:28:00 AM

**Qualifiers:** ND - Not Detected at the Reporting Limit S - Spike Recovery outside accepted recovery limits  
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 B - Analyte detected in the associated Method Blank E - Value above quantitation range  
 \* - Value exceeds Maximum Contaminant Level

CLIENT: Terracon  
 Lab Order: 0604101  
 Project:  
 Lab ID: 0604101-018A

Client Sample ID: Pit #4 (2')  
 Tag Number:  
 Collection Date: 4/11/2006  
 Matrix: SOLID

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
<b>VOLATILES BY GC/MS FOR SOLIDS</b>		<b>SW8260B</b>		<b>Analyst: KH</b>		
4-Chlorotoluene	ND	31.0		µg/Kg	5	4/29/2006 10:28:00 AM
4-Isopropyltoluene	ND	43.2		µg/Kg	5	4/29/2006 10:28:00 AM
4-Methyl-2-pentanone	ND	98.1		µg/Kg	5	4/29/2006 10:28:00 AM
Acetone	ND	23.3		µg/Kg	5	4/29/2006 10:28:00 AM
Acrolein	ND	25.0		µg/Kg	5	4/29/2006 10:28:00 AM
Acrylonitrile	ND	125		µg/Kg	5	4/29/2006 10:28:00 AM
Benzene	ND	25.0		µg/Kg	5	4/29/2006 10:28:00 AM
Bromobenzene	ND	29.9		µg/Kg	5	4/29/2006 10:28:00 AM
Bromochloromethane	ND	29.6		µg/Kg	5	4/29/2006 10:28:00 AM
Bromodichloromethane	ND	28.7		µg/Kg	5	4/29/2006 10:28:00 AM
Bromoform	ND	14.0		µg/Kg	5	4/29/2006 10:28:00 AM
Bromomethane	ND	26.5		µg/Kg	5	4/29/2006 10:28:00 AM
Carbon disulfide	ND	27.8		µg/Kg	5	4/29/2006 10:28:00 AM
Carbon tetrachloride	ND	39.2		µg/Kg	5	4/29/2006 10:28:00 AM
Chlorobenzene	ND	30.7		µg/Kg	5	4/29/2006 10:28:00 AM
Chloroethane	ND	31.7		µg/Kg	5	4/29/2006 10:28:00 AM
Chloroform	ND	30.6		µg/Kg	5	4/29/2006 10:28:00 AM
Chloromethane	ND	37.7		µg/Kg	5	4/29/2006 10:28:00 AM
cis-1,2-Dichloroethene	ND	27.5		µg/Kg	5	4/29/2006 10:28:00 AM
cis-1,3-Dichloropropene	ND	26.9		µg/Kg	5	4/29/2006 10:28:00 AM
Dibromochloromethane	ND	20.9		µg/Kg	5	4/29/2006 10:28:00 AM
Dibromomethane	ND	23.7		µg/Kg	5	4/29/2006 10:28:00 AM
Dichlorodifluoromethane	ND	32.9		µg/Kg	5	4/29/2006 10:28:00 AM
Ethylbenzene	ND	35.9		µg/Kg	5	4/29/2006 10:28:00 AM
Hexachlorobutadiene	ND	41.6		µg/Kg	5	4/29/2006 10:28:00 AM
Iodomethane	ND	28.2		µg/Kg	5	4/29/2006 10:28:00 AM
Isopropylbenzene	ND	36.8		µg/Kg	5	4/29/2006 10:28:00 AM
m,p-Xylene	ND	23.2		µg/Kg	5	4/29/2006 10:28:00 AM
Methyl tert-butyl ether	ND	25.0		µg/Kg	5	4/29/2006 10:28:00 AM
Methylene chloride	ND	22.0		µg/Kg	5	4/29/2006 10:28:00 AM
n-Butylbenzene	ND	38.5		µg/Kg	5	4/29/2006 10:28:00 AM
n-Propylbenzene	ND	37.2		µg/Kg	5	4/29/2006 10:28:00 AM
Naphthalene	ND	37.2		µg/Kg	5	4/29/2006 10:28:00 AM
o-Xylene	ND	33.0		µg/Kg	5	4/29/2006 10:28:00 AM
sec-Butylbenzene	ND	35.4		µg/Kg	5	4/29/2006 10:28:00 AM
Styrene	ND	29.2		µg/Kg	5	4/29/2006 10:28:00 AM
tert-Butylbenzene	ND	36.4		µg/Kg	5	4/29/2006 10:28:00 AM
Tetrachloroethene	ND	35.1		µg/Kg	5	4/29/2006 10:28:00 AM
Toluene	ND	32.7		µg/Kg	5	4/29/2006 10:28:00 AM
trans-1,2-Dichloroethene	ND	32.7		µg/Kg	5	4/29/2006 10:28:00 AM

Qualifiers: ND - Not Detected at the Reporting Limit S - Spike Recovery outside accepted recovery limits  
 J - Analyte detected below quantitation limits R - RPD outside accepted recovery limits  
 B - Analyte detected in the associated Method Blank E - Value above quantitation range  
 \* - Value exceeds Maximum Contaminant Level

CLIENT: Terracon  
 Lab Order: 0604101  
 Project:  
 Lab ID: 0604101-018A

Client Sample ID: Pit #4 (2')  
 Tag Number:  
 Collection Date: 4/11/2006  
 Matrix: SOLID

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
<b>VOLATILES BY GC/MS FOR SOLIDS</b>		<b>SW8260B</b>		Analyst: KH		
trans-1,3-Dichloropropene	ND	22.0		µg/Kg	5	4/29/2006 10:28:00 AM
Trichloroethene	ND	38.1		µg/Kg	5	4/29/2006 10:28:00 AM
Trichlorofluoromethane	ND	32.7		µg/Kg	5	4/29/2006 10:28:00 AM
Vinyl acetate	ND	233		µg/Kg	5	4/29/2006 10:28:00 AM
Vinyl chloride	ND	35.1		µg/Kg	5	4/29/2006 10:28:00 AM
Xylenes, Total	ND	50.8		µg/Kg	5	4/29/2006 10:28:00 AM
<b>TPH FOR SOLIDS</b>		<b>TX1005</b>		Analyst: JL		
TPH (C6 - C35)	5820	50.0		mg/Kg	1	4/19/2006
TPH (C6 - C12)	955	50.0		mg/Kg	1	4/19/2006
TPH (C12 - C35)	4860	50.0		mg/Kg	1	4/19/2006
<b>CHLORIDE</b>		<b>M4500-CL B</b>		Analyst: SB		
Chloride	15200	10.0		mg/Kg	1	4/27/2006 1:05:00 PM
<b>PH</b>		<b>9045C</b>		Analyst: SB		
pH	8.43	0		pH Units	1	4/27/2006

Qualifiers: ND - Not Detected at the Reporting Limit S - Spike Recovery outside accepted recovery limits  
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 \* - Value exceeds Maximum Contaminant Level

Anacon, Inc.  
730 FM 1959  
Houston, TX 77034  
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Fax: (281) 481-0089

4101-18 1006  
Page 1 of 1

<b>Terracon</b>	<b>ANACON NUMBER</b>	0604101
<b>11555 Clay Rd.</b>	<b>DATE COLLECTED</b>	04/11/06
<b>Houston, TX 77043</b>	<b>DATE RECEIVED</b>	04/13/06
<b>ATTN: Steve Neely</b>	<b>DATE OF REPORT</b>	04/30/06

<b>LAB ID:</b>	0604101-018A	<b>SAMPLE MATRIX:</b>	Solid
<b>SAMPLE ID:</b>	Pit #4 (2')		

### TOTAL PETROLEUM HYDROCARBONS (TPH) ANALYSIS

PARAMETER	METHOD	DATE ANALYZED	REPORTING LIMIT (mg/Kg)	RESULT (mg/Kg)
TPH (C6-C35)	TNRCC - 1006	04/25/06	50.0	5,820
ALIPHATIC (C6-C8)	TNRCC - 1006	04/25/06	5.00	<5.00
AROMATIC (C6-C8)	TNRCC - 1006	04/25/06	5.00	<5.00
ALIPHATIC (C8-C10)	TNRCC - 1006	04/25/06	5.00	189
AROMATIC (C8-C10)	TNRCC - 1006	04/25/06	5.00	<5.00
ALIPHATIC (C10-C12)	TNRCC - 1006	04/25/06	5.00	766
AROMATIC (C10-C12)	TNRCC - 1006	04/25/06	5.00	<5.00
ALIPHATIC (C12-C16)	TNRCC - 1006	04/25/06	5.00	2,700
AROMATIC (C12-C16)	TNRCC - 1006	04/25/06	5.00	79.0
ALIPHATIC (C16-C21)	TNRCC - 1006	04/25/06	5.00	1,540
AROMATIC (C16-C21)	TNRCC - 1006	04/25/06	5.00	107
ALIPHATIC (C21-C35)	TNRCC - 1006	04/25/06	5.00	372
AROMATIC (C21-C35)	TNRCC - 1006	04/25/06	5.00	<5.00

**Anacon, Inc.**

Date: 21-May-06

**CLIENT:** Terracon  
**Lab Order:** 0604101  
**Project:**  
**Lab ID:** 0604101-019A

**Client Sample ID:** Pit #5 (2')  
**Tag Number:**  
**Collection Date:** 4/11/2006  
**Matrix:** SOLID

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
<b>VOLATILES BY GC/MS FOR SOLIDS</b>		<b>SW8260B</b>				Analyst: KH
Benzene	ND	25.0		µg/Kg	5	4/25/2006 5:13:00 PM
Ethylbenzene	ND	35.9		µg/Kg	5	4/25/2006 5:13:00 PM
Toluene	ND	32.7		µg/Kg	5	4/25/2006 5:13:00 PM
Xylenes, Total	ND	50.8		µg/Kg	5	4/25/2006 5:13:00 PM
<b>TPH FOR SOLIDS</b>		<b>TX1005</b>				Analyst: JL
TPH (C6 - C35)	4230	50.0		mg/Kg	1	4/19/2006
TPH (C6 - C12)	553	50.0		mg/Kg	1	4/19/2006
TPH (C12 - C35)	3680	50.0		mg/Kg	1	4/19/2006

**Qualifiers:** ND - Not Detected at the Reporting Limit  
 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  
 R - RPD outside accepted recovery limits  
 E - Value above quantitation range

CLIENT: Terracon  
 Work Order: 0604101  
 Project:

ANALYTICAL QC SUMMARY REPORT  
 TestCode: 6020\_S

Sample ID: LCS 050106JRH	SampType: LCS	TestCode: 6020_S	Units: mg/Kg	Prep Date:	Run ID: ICP-MS #1_060501C
Client ID: ZZZZZ	Batch ID: R8655	TestNo: SW6020		Analysis Date: 5/1/2006	SeqNo: 99363

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	20.16	0.163	20	0.07136	100	75	125	0	0		
Barium	22.02	0.174	20	0.2506	109	75	125	0	0		
Cadmium	20.33	0.177	20	0	102	75	125	0	0		
Chromium	21.06	0.0950	20	0.06533	105	75	125	0	0		
Lead	20.71	0.323	20	0	104	75	125	0	0		
Mercury	0.1786	0.0620	0.2	0	89.3	75	125	0	0		
Selenium	17.93	0.136	20	0	89.7	75	125	0	0		
Silver	10.94	0.0670	10	0	109	75	125	0	0		

Sample ID: 0604136-002A-MS	SampType: MS	TestCode: 6020_S	Units: mg/Kg	Prep Date:	Run ID: ICP-MS #1_060501C
Client ID: ZZZZZ	Batch ID: R8655	TestNo: SW6020		Analysis Date: 5/1/2006	SeqNo: 99365

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	18.53	0.163	20	1.801	83.6	70	130	0	0		
Barium	41.16	0.174	20	23.1	90.3	70	130	0	0		
Cadmium	16.73	0.177	20	0.07102	83.3	70	130	0	0		
Chromium	21.88	0.0950	20	3.298	92.9	70	130	0	0		
Lead	20.78	0.323	20	4.793	79.9	70	130	0	0		
Mercury	0.1479	0.0620	0.2	0	74	70	130	0	0		
Selenium	13.7	0.136	20	0.09594	68	70	130	0	0		S
Silver	17.24	0.0670	20	0	86.2	70	130	0	0		

Sample ID: 0604136-002A-MSD	SampType: MSD	TestCode: 6020_S	Units: mg/Kg	Prep Date:	Run ID: ICP-MS #1_060501C
Client ID: ZZZZZ	Batch ID: R8655	TestNo: SW6020		Analysis Date: 5/1/2006	SeqNo: 99366

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	18.26	0.163	20	1.801	82.3	70	130	18.53	1.47	25	
Barium	41.89	0.174	20	23.1	94	70	130	41.16	1.76	25	
Cadmium	17.01	0.177	20	0.07102	84.7	70	130	16.73	1.66	25	

Qualifiers: ND - Not Detected at the Reporting Limit  
 S - Spike Recovery outside accepted recovery limits  
 B - Analyte detected in the associated Method Blank  
 J - Analyte detected below quantitation limits  
 R - RPD outside accepted recovery limits

CLIENT: Terracon  
 Work Order: 0604101

Project:

# ANALYTICAL QC SUMMARY REPORT

TestCode: 6020\_S

Sample ID: 0604136-002A-MSD	Sample Type: MSD	TestCode: 6020_S	Units: mg/Kg	Prep Date:	Run ID: ICP-MS #1_060501C
Client ID: ZZZZZ	Batch ID: R8655	TestNo: SW6020		Analysis Date: 5/1/2006	SeqNo: 99366

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium	21.34	0.0950	20	3.298	90.2	70	130	21.88	2.50	25	
Lead	21.42	0.323	20	4.793	83.1	70	130	20.78	3.03	25	
Mercury	0.08788	0.0620	0.2	0	43.9	70	130	0.1479	50.9	25	
Selenium	14.76	0.136	20	0.09594	73.3	70	130	13.7	7.45	25	
Silver	17.51	0.0670	20	0	87.6	70	130	17.24	1.55	25	

**Qualifiers:**

- ND - Not Detected at the Reporting Limit
- J - Analyte detected below quantitation limits
- S - Spike Recovery outside accepted recovery limits
- R - RPD outside accepted recovery limits
- B - Analyte detected in the associated Method Blank

CLIENT: Terracon  
 Work Order: 0604101  
 Project:

# ANALYTICAL QC SUMMARY REPORT

TestCode: 8270\_s

Sample ID: LCS1	Client ID: ZZZZZ	SampType: LCS	Batch ID: 752	TestCode: 8270_s	TestNo: SV8270C	Units: µg/Kg	Prep Date: 4/26/2006	Run ID: MS-ABN-1_060426C			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,2,4-Trichlorobenzene	408.3	197	666.7	0	61.3	-4.57	150	0	0		
1,4-Dichlorobenzene	353	148	666.7	0	53	-3.76	134	0	0		
2,4-Dinitrotoluene	452	230	666.7	0	67.8	-10.8	168	0	0		
2-Chlorophenol	364	147	666.7	0	54.6	-5.96	137	0	0		
4-Chloro-3-methylphenol	411.7	202	666.7	0	61.8	-13.7	170	0	0		
4-Nitrophenol	498.3	86.0	666.7	0	74.8	-11	152	0	0		
Acenaphthene	449.3	165	666.7	0	67.4	-3.66	155	0	0		
n-Nitrosodi-n-propylamine	403.7	158	666.7	0	60.6	-8.95	157	0	0		
Pentachlorophenol	296.7	240	666.7	0	44.4	-32	164	0	0		
Phenol	335.3	125	666.7	0	50.3	-8.5	147	0	0		
Pyrene	503	177	666.7	0	75.4	-0.95	185	0	0		
Surr: 2,4,6-Tribromophenol	462.3	6.00	666.7	0	69.4	10	123	0	0		
Surr: 2-Fluorobiphenyl	449	5.00	666.7	0	67.4	43	116	0	0		
Surr: 2-Fluorophenol	361.3	4.00	666.7	0	54.2	21	100	0	0		
Surr: Nitrobenzene-d5	453	4.00	666.7	0	68	35	114	0	0		
Surr: Phenol-d6	387.3	5.00	666.7	0	58.1	10	94	0	0		

Sample ID: MS1	Client ID: ZZZZZ	SampType: MS	Batch ID: 752	TestCode: 8270_s	TestNo: SV8270C	Units: µg/Kg	Prep Date: 4/26/2006	Run ID: MS-ABN-1_060426C			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,2,4-Trichlorobenzene	461.7	197	666.7	0	69.2	44	142	0	0		
1,4-Dichlorobenzene	420.7	148	666.7	0	63.1	20	124	0	0		
2,4-Dinitrotoluene	500.3	230	666.7	0	75	39	139	0	0		
2-Chlorophenol	437.3	147	666.7	0	65.6	23	134	0	0		
4-Chloro-3-methylphenol	537.7	202	666.7	0	80.6	22	147	0	0		
4-Nitrophenol	342.7	86.0	666.7	0	51.4	0	132	0	0		
Acenaphthene	484	165	666.7	0	72.6	47	145	0	0		
n-Nitrosodi-n-propylamine	482.7	158	666.7	0	72.4	0	230	0	0		
Pentachlorophenol	409.7	240	666.7	0	61.4	14	176	0	0		
Phenol	422	125	666.7	0	63.3	5	112	0	0		

Qualifiers: ND - Not Detected at the Reporting Limit      S - Spike Recovery outside accepted recovery limits      B - Analyte detected in the associated Method Blank

J - Analyte detected below quantitation limits      R - RPD outside accepted recovery limits

CLIENT: Terracon  
 Work Order: 0604101  
 Project:

ANALYTICAL QC SUMMARY REPORT

TestCode: 8270\_s

Sample ID: MS1	Batch ID: 752	Client ID: ZZZZZ	SampType: MS	Batch ID: 752	TestCode: 8270_s	TestNo: SV8270C	Units: µg/Kg	Prep Date: 4/26/2006	Run ID: MS-ABN-1_060426C
Pyrene	596.3	177	666.7	0	89.4	52	115	0	0
Surr: 2,4,6-Tribromophenol	511	6.00	666.7	0	76.6	10	123	0	0
Surr: 2-Fluorobiphenyl	490	5.00	666.7	0	73.5	43	116	0	0
Surr: 2-Fluorophenol	427.7	4.00	666.7	0	64.2	21	100	0	0
Surr: Nitrobenzene-d5	488.7	4.00	666.7	0	73.3	35	114	0	0
Surr: Phenol-d6	447.3	5.00	666.7	0	67.1	10	94	0	0

Sample ID: MSD1	Batch ID: 752	Client ID: ZZZZZ	SampType: MSD	Batch ID: 752	TestCode: 8270_s	TestNo: SV8270C	Units: µg/Kg	Prep Date: 4/26/2006	Run ID: MS-ABN-1_060426C
1,2,4-Trichlorobenzene	365.7	197	666.7	0	54.8	44	142	461.7	23.2
1,4-Dichlorobenzene	341.3	148	666.7	0	51.2	20	124	420.7	20.8
2,4-Dinitrotoluene	489.7	230	666.7	0	73.5	39	139	500.3	2.15
2-Chlorophenol	368.7	147	666.7	0	55.3	23	134	437.3	17.0
4-Chloro-3-methylphenol	445.7	202	666.7	0	66.8	22	147	537.7	18.7
4-Nitrophenol	530.3	86.0	666.7	0	79.6	0	132	342.7	43.0
Acenaphthene	429.7	165	666.7	0	64.4	47	145	484	11.9
n-Nitrosodi-n-propylamine	409.3	158	666.7	0	61.4	0	230	482.7	16.4
Pentachlorophenol	337.7	240	666.7	0	50.6	14	176	409.7	19.3
Phenol	338.3	125	666.7	0	50.8	5	112	422	22.0
Pyrene	595.7	177	666.7	0	89.4	52	115	596.3	0.112
Surr: 2,4,6-Tribromophenol	438	6.00	666.7	0	65.7	10	123	0	0
Surr: 2-Fluorobiphenyl	429	5.00	666.7	0	64.4	43	116	0	0
Surr: 2-Fluorophenol	348.3	4.00	666.7	0	52.2	21	100	0	0
Surr: Nitrobenzene-d5	395.7	4.00	666.7	0	59.4	35	114	0	0
Surr: Phenol-d6	382.3	5.00	666.7	0	57.4	10	94	0	0

Qualifiers: NID - Not Detected at the Reporting Limit  
 S - Spike Recovery outside accepted recovery limits  
 B - Analyte detected in the associated Method Blank

J - Analyte detected below quantitation limits

R - RPD outside accepted recovery limits



Anacon, Inc.  
730 FM 1959  
Houston, TX 77034

Date 04/27/06

QA/QC REPORT - MS/MSD

Sample ID: 0604101-12  
Anacon Number: 0604101

MS/MSD

Matrix:  
Units

Solid  
mg/kg

Analyte/Method	Numb	Blank	Sample	Spike Level	MS	% REC	MSD	% REC	RPD	QC LIMITS	
										RPD	% REC
Chloride- 5600CL-B	< 10	2899.1	2000.00	4799.0	95.0	4948.0	102.45	3.06	10	80-120	

MS/MSD Advisory Limits

RPD: 0 out of 1 outside of QC limits  
REC: 0 out of 2 outside of QC limits

\* Matrix Interference

\*\* Sample too concentrated to spike

QA/QC Manager

McKnight



Anacon, Inc.  
 730 FM 1959  
 Houston, TX 77034

QA/QC REPORT - MS/MSD

Sample ID: MS/MSD  
 Anacon Number: 4101, 02

Matrix: Soil  
 Units mg/kg

Analyte/Method Number	Blank	Sample	Spike Level	MS	% REC	MSD	% REC	RPD	QC LIMITS	
									RPD	% REC
TPH C6-C12	< 50.0	< 50.0	500	513	102.6	536	107.2	4.4	25	70-120
TPH C12-C35	< 50.0	< 50.0	500	491	98.2	521	104.2	5.9	25	70-120

\*Matrix Interference

\*\*Sample too Concentrated for spiked amount

MS/MSD Advisory Limits

RPD: 0 out of 2 outside of QC limits  
 REC: 0 out of 4 outside of QC limits

\* Matrix Interference

\*\* Sample too concentrated to spike

QA/QC Manager M Knight





ANACON, INC.

730 FM 1959  
HOUSTON, TX 77034



ANALYTICAL AND CONSULTING LABORATORIES

PHONE: (281) 922-7000 • FAX (281) 481-0089

May 22, 2006

KP Jonnalagadda  
Terracon  
11555 Clay Road  
Houston, TX 77043  
TEL: (713) 690-8989  
FAX (713) 690-8787  
RE:

Dear KP Jonnalagadda:

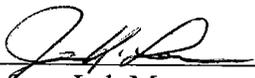
Order No.: 0604102

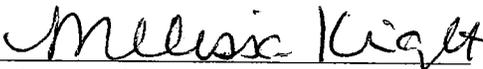
Anacon, Inc. received 6 samples on 4/13/2006 for the analyses presented in the following report.

Analyses are performed with method-required QA/QC samples. These data are provided along with the sample results. There were no problems with the analyses unless noted in a Case Narrative.

If you have any questions regarding these tests results, please feel free to call.

Sincerely,

  
James Lee, Lab Manager

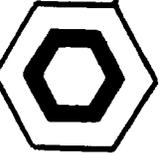
  
Melissa Knight, QA/QC Manager

Total Number of Pages 013  
(Including Data Package Cover Sheet)



This report shall not be reproduced, except in full, without the written approval of this laboratory.  
Reported results represent only the sample tested.

REC'D MAY 25 2006



Chain of Custody Record

ORIGINAL

Page 1 of 1

Client: TERRACON  
11555 Clay Rd, Houston, TX

Contact Person: K P Tom Alagadda  
Phone Number: 713-690-8989  
Fax Number: 713-690-8287

Anacon Log Number: 0004102  
Due Date: 04/13/06  
Turn Around Time: \_\_\_\_\_

Delivered By: Client  
Custody Seal (Y/N): YES  
Temperature: ON ICE

Sampled By: Krishna Tomalagadda  
Please Print

Type of Analysis Requested

Log Number	Sample Matrix	Date/Time Collected	Number of Containers	Client Sample ID	Type of Analysis Requested					pH	Remarks		
					IPH	BTEX	EC	SAR	Chloride				
01	SW/soil	9/1/02	3	B-9 (61)			X	X	X				
02		9/1/02	3	B-10 (71)	X	X	X	X	X				
03		10/1/02	3	B-11 (81)	X	X							
04		10/1/02	3	B-12 (5-61)			X	X	X				
05		10/1/02	3	B-13 (2-31)			X	X	X				
06		12/1/05	2	TSP-1 (301)	X	X							
Relinquished By: <u>Krishna Tomalagadda</u>					Relinquished By:	Date:	Time:						
Accepted By: <u>Shawn</u>					Accepted By:	Date:	Time:						
Relinquished By:					Relinquished By:	Date:	Time:						
Accepted By:					Accepted By:	Date:	Time:						

Hold all analysis  
Samples collected on 04/12/06



Anacon, Inc.

Date: 21-May-06

CLIENT: Terracon  
Lab Order: 0604102  
Project:  
Lab ID: 0604102-001A

Client Sample ID: B-9 (6)  
Tag Number:  
Collection Date:  
Matrix: SOLID

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
<b>CHLORIDE</b>						Analyst: SB
Chloride	3450	10.0		mg/Kg	1	4/24/2006 7:10:00 AM
<b>SPECIFIC CONDUCTANCE</b>						Analyst: SB
Conductivity	5500	1.00		µmhos/cm	1	4/21/2006 6:50:00 AM
<b>PH</b>						Analyst: SB
pH	7.56	0		pH Units	1	4/20/2006
<b>SODIUM ABSORPTION RATIO</b>						Analyst: HN
SAR	19.7	0			1	5/5/2006

Qualifiers: ND - Not Detected at the Reporting Limit  
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  
R - RPD outside accepted recovery limits  
E - Value above quantitation range

CLIENT: Terracon  
 Lab Order: 0604102  
 Project:  
 Lab ID: 0604102-002A

Client Sample ID: B-10 (7)  
 Tag Number:  
 Collection Date:  
 Matrix: SOLID

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
<b>CHLORIDE</b>		<b>M4500-CL B</b>				Analyst: <b>SB</b>
Chloride	2650	10.0		mg/Kg	1	4/24/2006 7:10:00 AM
<b>SPECIFIC CONDUCTANCE</b>		<b>E120.1</b>				Analyst: <b>SB</b>
Conductivity	5430	1.00		µmhos/cm	1	4/21/2006 6:50:00 AM
<b>PH</b>		<b>9045C</b>				Analyst: <b>SB</b>
pH	8.31	0		pH Units	1	4/20/2006
<b>SODIUM ABSORPTION RATIO</b>		<b>AG HANDBOOK #60</b>				Analyst: <b>HN</b>
SAR	30.8	0			1	5/5/2006

Qualifiers: ND - Not Detected at the Reporting Limit  
 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  
 R - RPD outside accepted recovery limits  
 E - Value above quantitation range

CLIENT: Terracon  
 Lab Order: 0604102  
 Project:  
 Lab ID: 0604102-003A

Client Sample ID: B-11 (8)  
 Tag Number:  
 Collection Date:  
 Matrix: SOLID

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
<b>VOLATILES BY GC/MS FOR SOLIDS</b>		<b>SW8260B</b>				Analyst: KH
Benzene	ND	25.0		µg/Kg	5	4/25/2006 5:42:00 PM
Ethylbenzene	ND	35.9		µg/Kg	5	4/25/2006 5:42:00 PM
Toluene	ND	32.7		µg/Kg	5	4/25/2006 5:42:00 PM
Xylenes, Total	ND	50.8		µg/Kg	5	4/25/2006 5:42:00 PM
Surr: 1,2-Dichloroethane-d4	108	80-120		%REC	5	4/25/2006 5:42:00 PM
Surr: 4-Bromofluorobenzene	107	74-121		%REC	5	4/25/2006 5:42:00 PM
Surr: Dibromofluoromethane	108	80-120		%REC	5	4/25/2006 5:42:00 PM
Surr: Toluene-d8	89.5	81-117		%REC	5	4/25/2006 5:42:00 PM
<b>TPH FOR SOLIDS</b>		<b>TX1005</b>				Analyst: JL
TPH (C6 - C35)	ND	50.0		mg/Kg	1	4/19/2006
TPH (C6 - C12)	ND	50.0		mg/Kg	1	4/19/2006
TPH (C12 - C35)	ND	50.0		mg/Kg	1	4/19/2006

**Qualifiers:** ND - Not Detected at the Reporting Limit S - Spike Recovery outside accepted recovery limits  
 J - Analyte detected below quantitation limits R - RPD outside accepted recovery limits  
 B - Analyte detected in the associated Method Blank E - Value above quantitation range  
 \* - Value exceeds Maximum Contaminant Level

**Anacon, Inc.**

Date: 21-May-06

**CLIENT:** Terracon  
**Lab Order:** 0604102  
**Project:**  
**Lab ID:** 0604102-005A

**Client Sample ID:** B-13 (2-3)  
**Tag Number:**  
**Collection Date:**  
**Matrix:** SOLID

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
<b>CHLORIDE</b>		<b>M4500-CL B</b>				Analyst: SB
Chloride	3350	10.0		mg/Kg	1	4/24/2006 7:10:00 AM
<b>SPECIFIC CONDUCTANCE</b>		<b>E120.1</b>				Analyst: SB
Conductivity	4940	1.00		µmhos/cm	1	4/21/2006 6:50:00 AM
<b>PH</b>		<b>9045C</b>				Analyst: SB
pH	8.98	0		pH Units	1	4/20/2006
<b>SODIUM ABSORPTION RATIO</b>		<b>AG HANDBOOK #60</b>				Analyst: HN
SAR	30.2	0			1	5/5/2006

**Qualifiers:** ND - Not Detected at the Reporting Limit  
 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  
 R - RPD outside accepted recovery limits  
 E - Value above quantitation range

CLIENT: Terracon  
 Lab Order: 0604102  
 Project:  
 Lab ID: 0604102-006A

Client Sample ID: TSP-1 (30)  
 Tag Number:  
 Collection Date:  
 Matrix: SOLID

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
<b>VOLATILES BY GC/MS FOR SOLIDS</b>		<b>SW8260B</b>				Analyst: KH
Benzene	ND	25.0		µg/Kg	5	4/25/2006 6:10:00 PM
Ethylbenzene	ND	35.9		µg/Kg	5	4/25/2006 6:10:00 PM
Toluene	ND	32.7		µg/Kg	5	4/25/2006 6:10:00 PM
Xylenes, Total	ND	50.8		µg/Kg	5	4/25/2006 6:10:00 PM
Surr: 1,2-Dichloroethane-d4	111	80-120		%REC	5	4/25/2006 6:10:00 PM
Surr: 4-Bromofluorobenzene	102	74-121		%REC	5	4/25/2006 6:10:00 PM
Surr: Dibromofluoromethane	111	80-120		%REC	5	4/25/2006 6:10:00 PM
Surr: Toluene-d8	86.2	81-117		%REC	5	4/25/2006 6:10:00 PM
<b>TPH FOR SOLIDS</b>		<b>TX1005</b>				Analyst: JL
TPH (C6 - C35)	ND	50.0		mg/Kg	1	4/19/2006
TPH (C6 - C12)	ND	50.0		mg/Kg	1	4/19/2006
TPH (C12 - C35)	ND	50.0		mg/Kg	1	4/19/2006

**Qualifiers:** ND - Not Detected at the Reporting Limit  
 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  
 R - RPD outside accepted recovery limits  
 E - Value above quantitation range

CLIENT: Terracon  
 Work Order: 0604102  
 Project:

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260\_S

Sample ID: lcs, 50 ppb	SamplType: LCS	TestCode: 8260_S	Units: µg/Kg	Prep Date:	Run ID: MS-VOA-1_060428A
Client ID: ZZZZZ	Batch ID: R8649	TestNo: SW8260B		Analysis Date: 4/28/2006	SeqNo: 99604

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene	60.1	6.47	50	0	120	74	127	0	0		
Benzene	50.02	5.00	50	0	100	80	120	0	0		
Chlorobenzene	51.06	6.15	50	0	102	80	120	0	0		
Toluene	41.4	6.55	50	0	82.8	80	120	0	0		
Trichloroethene	54.99	7.62	50	0	110	80	120	0	0		
Surr: 1,2-Dichloroethane-d4	108.4	20.1	100	0	108	80	120	0	0		
Surr: 4-Bromofluorobenzene	97.05	7.21	100	0	97	74	121	0	0		
Surr: Dibromofluoromethane	115.4	11.1	100	0	115	80	120	0	0		

Qualifiers:

NID - Not Detected at the Reporting Limit  
 J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits  
 R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank



Anacon, Inc.  
730 FM 1959  
Houston, TX 77034

Date 04/24/06

QA/QC REPORT - MS/MSD

Sample ID: 0604102-01

MS/MSD

Matrix:

Solid

Anacon Number: 0604102,096

Units

mg/kg

Analyte/Method Numb	Blank	Sample	Spike Level	MS	% REC	MSD	% REC	RPD	QC LIMITS	
									RPD	% REC
Chloride- 5600CL-B	< 10	3448.9	2000.00	5698.0	112.5	5298.0	92.454	7.28	10	80-120

MS/MSD Advisory Limits

RPD: 0 out of 1 outside of QC limits  
REC: 0 out of 2 outside of QC limits

\* Matrix Interference

\*\* Sample too concentrated to spike

QA/QC Manager

M. Wright

Anacon, Inc.  
730 FM 1959  
Houston, TX 77034

QA/QC REPORT - LCS

Sample ID: Lcs Matrix: Soil  
Anacon Number: 4101,02 Units mg/kg

Analyte / Method Number	Blk. Value	Spike Conc.	LCS Conc.	% Recovery	Recovery Limits
TPH C6-C12	<50.0	500	520	104.0	70-120
TPH C12-C35	<50.0	500	510	102.0	70-120

LCS Advisory Limits

REC. 0 out of 2 outside of QC limits

\*Matrix interference

\*\*Sample too concentrated to spike

QA/QC Manager M. Wright

Anacon, Inc.  
 730 FM 1959  
 Houston, TX 77034

QA/QC REPORT - MS/MSD

Sample ID: MS/MSD  
 Anacon Number: 4101, 02

Matrix: Soil  
 Units mg/kg

Analyte/Method Number	Blank	Sample	Spike Level	MS	% REC	MSD	% REC	RPD	QC LIMITS	
									RPD	% REC
TPH C6-C12	< 50.0	< 50.0	500	513	102.6	536	107.2	4.4	25	70-120
TPH C12-C35	< 50.0	< 50.0	500	491	98.2	521	104.2	5.9	25	70-120

\*Matrix Interference

\*\*Sample too Concentrated for spiked amount

MS/MSD Advisory Limits

RPD: 0 out of 2 outside of QC limits  
 REC: 0 out of 4 outside of QC limits

\* Matrix Interference

\*\* Sample too concentrated to spike

QA/QC Manager McKnight

**CALCULATION OF TIER 1 TPH MIXTURE PCL**

This spreadsheet is used to calculate **Tier 1 Total Petroleum Hydrocarbon (TPH) Mixture Cleanup Levels** where TPH concentrations have been measured with Method TX1006

This spreadsheet will calculate TPH Mixture cleanup levels for both **residential** and **commercial/industrial** land use assumptions, and for both **< 0.5 acres** and **> 0.5 acres** source areas.

To use this spreadsheet, please input “y” for yes, or “n” for no after each question listed below. Then, in the box labeled “**TPH Data**”, for the appropriate medium (soil or groundwater) please input the total TPH concentration (for C6-C35) and the individual concentrations from TX1006 analysis for each TPH aliphatic and aromatic fraction.

The results will appear in the columns to the right in the appropriate box, depending on land use assumptions and source area size. A value of "Max HI < 10" next to <sup>GW</sup>Soil<sub>ing</sub> indicates that the leaching to groundwater pathway is effectively incomplete due to the relatively low solubility of the particular TPH mixture.

- Is the affected property a residential area?
- Is the affected property commercial/industrial land?
- Is the affected property larger than 0.5 acres?

y
n
n

**TPH Data**

	Soil mg/kg	Groundwater mg/L
Total TPH C6-C35	5820	--
<b>TX 1006 Data</b>		
6 C aliphatics	0	--
>6-8 C aliphatics	0	--
>8-10 C aliphatics	189	--
>10-12 C aliphatics	766	--
>12-16 C aliphatics	2700	--
>16-21 C aliphatics	1540	--
>C21-C35 aliphatics	372	--
>7-8 C aromatics	0	--
>8-10 C aromatics	0	--
>10-12 C aromatics	0	--
>12-16 C aromatics	79	--
>16-21 C aromatics	107	--
>21-35 C aromatics	0	--

**TPH Mixture PCLs Resident < 0.5 acre**

Soil	mg/kg	Groundwater	mg/L
<sup>Tot</sup> Soil <sub>Comb</sub>	1.1E+04	GW <sub>ing</sub>	#VALUE!
<sup>Air</sup> Soil <sub>Inh-v</sub>	5.2E+04	GW <sub>class3</sub>	#VALUE!
<sup>GW</sup> Soil <sub>ing</sub>	Max HI < 10		

**TPH Mixture PCLs Resident > 0.5 acre**

Soil	mg/kg	Groundwater	mg/L
<sup>Tot</sup> Soil <sub>Comb</sub>	--	GW <sub>ing</sub>	--
<sup>Air</sup> Soil <sub>Inh-v</sub>	--	GW <sub>class3</sub>	--
<sup>GW</sup> Soil <sub>ing</sub>	--		

**TPH Mixture PCLs Industrial < 0.5 acre**

Soil	mg/kg	Groundwater	mg/L
<sup>Tot</sup> Soil <sub>Comb</sub>	--	GW <sub>ing</sub>	--
<sup>Air</sup> Soil <sub>Inh-v</sub>	--	GW <sub>class3</sub>	--
<sup>GW</sup> Soil <sub>ing</sub>	--		

**TPH Mixture PCLs Industrial > 0.5 acre**

Soil	mg/kg	Groundwater	mg/L
<sup>Tot</sup> Soil <sub>Comb</sub>	--	GW <sub>ing</sub>	--
<sup>Air</sup> Soil <sub>Inh-v</sub>	--	GW <sub>class3</sub>	--
<sup>GW</sup> Soil <sub>ing</sub>	--		

**CALCULATION OF TIER 1 TPH MIXTURE PCL**

This spreadsheet is used to calculate **Tier 1 Total Petroleum Hydrocarbon (TPH) Mixture Cleanup Levels** where TPH concentrations have been measured with Method TX1006

This spreadsheet will calculate TPH Mixture cleanup levels for both **residential** and **commercial/industrial** land use assumptions, and for both **< 0.5 acres** and **> 0.5 acres** source areas.

To use this spreadsheet, please input “y” for yes, or “n” for no after each question listed below. Then, in the box labeled “**TPH Data**”, for the appropriate medium (soil or groundwater) please input the total TPH concentration (for C6-C35) and the individual concentrations from TX1006 analysis for each TPH aliphatic and aromatic fraction.

The results will appear in the columns to the right in the appropriate box, depending on land use assumptions and source area size. A value of "Max HI < 10" next to <sup>GW</sup>Soil<sub>ing</sub> indicates that the leaching to groundwater pathway is effectively incomplete due to the relatively low solubility of the particular TPH mixture.

- Is the affected property a residential area?
- Is the affected property commercial/industrial land?
- Is the affected property larger than 0.5 acres?

y
n
n

**TPH Data**

	Soil mg/kg	Groundwater mg/L
Total TPH C6-C35	34700	--
<b>TX 1006 Data</b>		
6 C aliphatics	0	--
>6-8 C aliphatics	0	--
>8-10 C aliphatics	904	--
>10-12 C aliphatics	3870	--
>12-16 C aliphatics	13900	--
>16-21 C aliphatics	9260	--
>C21-C35 aliphatics	2290	--
>7-8 C aromatics	0	--
>8-10 C aromatics	0	--
>10-12 C aromatics	156	--
>12-16 C aromatics	2000	--
>16-21 C aromatics	2070	--
>21-35 C aromatics	323	--

**TPH Mixture PCLs Resident < 0.5 acre**

Soil	mg/kg	Groundwater	mg/L
<sup>Tot</sup> Soil <sub>Comb</sub>	1.3E+04	GW <sub>ing</sub>	#VALUE!
<sup>Air</sup> Soil <sub>Inh-v</sub>	6.0E+04	GW <sub>class3</sub>	#VALUE!
<sup>GW</sup> Soil <sub>ing</sub>	Max HI < 10		

**TPH Mixture PCLs Resident > 0.5 acre**

Soil	mg/kg	Groundwater	mg/L
<sup>Tot</sup> Soil <sub>Comb</sub>	--	GW <sub>ing</sub>	--
<sup>Air</sup> Soil <sub>Inh-v</sub>	--	GW <sub>class3</sub>	--
<sup>GW</sup> Soil <sub>ing</sub>	--		

**TPH Mixture PCLs Industrial < 0.5 acre**

Soil	mg/kg	Groundwater	mg/L
<sup>Tot</sup> Soil <sub>Comb</sub>	--	GW <sub>ing</sub>	--
<sup>Air</sup> Soil <sub>Inh-v</sub>	--	GW <sub>class3</sub>	--
<sup>GW</sup> Soil <sub>ing</sub>	--		

**TPH Mixture PCLs Industrial > 0.5 acre**

Soil	mg/kg	Groundwater	mg/L
<sup>Tot</sup> Soil <sub>Comb</sub>	--	GW <sub>ing</sub>	--
<sup>Air</sup> Soil <sub>Inh-v</sub>	--	GW <sub>class3</sub>	--
<sup>GW</sup> Soil <sub>ing</sub>	--		