



# CITY OF LAREDO ENGINEERING DEPARTMENT ENVIRONMENTAL ENGINEERING DIVISION



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October 17, 1997

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CE

Ms. Angela Burckhalter  
U.S. Corps of Engineers  
Tulsa District  
P.O. Box 61  
Tulsa, OK 74121-0061

Re: Airport Fuel Farm UST removal.

Dear Ms. Burckhalter:

Attached is a copy of the UST removal report for the City of Laredo, airport fuel farm. As discussed yesterday, originals reports were sent to the Texas Natural Resources Conservation Commissions' Austin and Region 15 offices.

Please call if you have any questions or comments.

Sincerely,

A handwritten signature in black ink that appears to read "Brent Christian".

Brent Christian  
Hydrogeologist

**CITY OF LAREDO  
AIRPORT DIRECTOR'S OFFICE**

**UNITED STATES DEPARTMENT OF AGRICULTURE**

**LAREDO, TEXAS**

*Rec'd*

*Aug 04 97*



## UNDERGROUND STORAGE TANK REMOVAL REPORT

### PREPARED FOR

CITY OF LAREDO, TEXAS  
1110 HOUSTON ST.  
LAREDO, WEBB COUNTY, TEXAS  
LPST NO.: 95021

AES PROJECT NO. 265-00001-01

July 29, 1997

### PREPARED BY

APPLIED EARTH SCIENCES, INC.  
4455 SOUTH PADRE ISLAND DRIVE, SUITE 28  
CORPUS CHRISTI, TEXAS 78411

*Brent Balusek*

Brent Balusek  
Environmental Scientist II

*Bobby Hill*

Bobby Hill  
Office Manager CAPM #00783

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**PST Site Documentation form (TNRCC-0091)**  
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**TNRCC Construction Notification Form and Letter of Receipt with Tracking Number**  
**Amended TNRCC UST Registration Form**

## **1.0 Introduction**

At the request of the City of Laredo, Texas, a representative of Applied Earth Sciences, Inc. (AES) was onsite to provide oversight and collect soil samples during the removal of six (6) 25,000 gallon underground storage tanks (UST) and ancillary equipment at the City of Laredo International Airport Fuel Farm facility (Figures 1). The subject site became Leaking Petroleum Storage Tank (LPST) Fuel #095021 on March 13, 1990 after NAPL was discovered in a vapor monitor well. Two (2) product recovery wells were installed on April 10, 1990, for free product recovery. In addition, two LPST sites (LPST #104866 and LPST #106165) are located within three hundred (300) feet of the subject site as shown on Figure 2.

## **2.0 Underground Storage Tank System Preparation and Removal**

The underground storage tank (UST) system located at the subject site consisted of six (6) 25,000 gallon steel UST's, above ground and below ground product piping and valves, and ancillary equipment including fuel unloading pumps and filter vessels. Figure 3 depicts the UST system layout and orientation. UST Nos. 1, 2, 3, and 4 held Jet A fuel while Nos. 5 and 6 held Aviation Gas. Each tank measured 10 feet 6 inches in diameter and was 38 feet 9 inches long. UST Nos. 2, 4, and 5 had not been in use since April of 1991 while UST Nos. 1, 3, and 6 were last used in January 1997.

From May 31, 1997 to June 4, 1997, Gemini Technical Services, Inc. (GTSI) personnel removed the concrete vaults, product piping, valves, and structural remains of building #1370 from over the tanks. Approximately two (2) feet of overburden soil was then removed from the tops and sides of the UST's. The excavated soils were field screened, segregated, and stockpiled next to the excavation. One thousand two hundred and sixty (1,260) gallons of residual fuel and water were removed from the tanks by Movac Environmental Services. The tanks were then purged with air to remove any residual vapors and monitored for lower explosive limits (LEL).

UST Nos. 4, 5, and 6 were removed on June 5, 1997, and placed in the staging area located approximately 150 ft. southeast of the excavation. UST Nos. 1, 2, and 3 were removed on June 6, 1997 and transported to the staging area located approximately 200 ft. southwest of the excavation.

After removal, the tanks were inspected and found to be in poor condition. Two one-half inch holes were observed in UST No. 1. UST Nos. 2, 5 and 6 had one inch holes. Two holes measuring one inch and one-half inch were observed in UST No. 4. No holes were observed in UST No. 3. Extensive corrosion was also noted on each tank. The hole locations and corrosion were observed in areas of the tanks that would have been below the water table. Hydrocarbon staining was observed along the sidewalls of the excavation at approximately nine (9) feet below ground surface (bgs) and in the area separating the tanks.

Four (4) inch diameter steel product piping connected the UST's to the fuel loading area. Four (4) inch diameter fiberglass product piping connected the fuel unloading area to the unloading pumps and the unloading pumps to the UST's. All underground piping appeared to be in good condition.

### **3.0     Soil Sampling**

All soil samples were collected from locations as directed by Mr. Bill Morris of the Texas Natural Resource Conservation Commission (TNRCC) Region 15 field office and Mr. Brent Christian of the City of Laredo, Environmental Engineering Division. A copy of the PST Site Documentation form (TNRCC-0091) is attached. Soil sampling and handling protocol was in accordance with TNRCC regulations and US EPA document SW-846 entitled *Test Methods for Evaluating Solid Waste, Volume III*. All sampling equipment was decontaminated prior to each sample collection. The soil samples were field screened using an HNU Systems Inc. photoionization detector (PID) calibrated to benzene, placed in properly labeled glass jars, and placed on ice. The samples were then shipped under chain-of-custody documentation to AnalySys Inc. of Austin, Texas and analyzed for total petroleum hydrocarbons (TPH) by EPA method 418.1 and benzene, toluene, ethylbenzene, and xylenes (BTEX) by EPA method 8020. Additionally, the sample exhibiting the highest BTEX concentration (excluding stockpile soil samples) was analyzed for total lead.

A total of fourteen (14) soil samples were collected from the UST excavation in the locations depicted on Figure 3. The sidewall samples were collected at a depth of eight and one-half feet bgs (approximately six inches above the observed saturated zone).

Five (5) composite soil samples were collected from the pipe chase areas eighteen (18) inches into native soil approximately 15 ft. apart as depicted in Figure 3. A thirty (30) foot section of pipe running from the excavation to the fuel loading and unloading area located to the east of building #1367, was not sampled due to stockpiled soils located over the sampling zone.

Three (3) soil samples were collected from the fuel loading and unloading area eighteen (18) inches into native soil at the locations depicted in Figure 3. An additional soil sample was collected from nine (9) feet bgs at the west end of the excavated area.

Soil samples were collected beneath each of the former fuel unloading pump locations eighteen (18) inches into native soil as depicted in Figure 3. An additional soil sample was collected from beneath the pump no. 3 location (formerly), eight and one-half (8.5) feet bgs.

A total of thirteen (13), five (5) part composite soil samples were collected from the stockpiled soils (one for every 50 cubic yards) based on visual observations and field screening results (PID).

### **4.0     Analytical Results**

The soil sample analytical results are summarized in Table 1. TPH concentrations in native soils ranged from 17.5 mg/kg (P.C. #4) to 5,480 mg/kg (Pump #2). Benzene concentrations in native soils ranged from not detected (ND) to 12,400 µg/kg (N. Wall #1) while total BTEX concentrations ranged from ND to 176,690 µg/kg (N. Wall #4). The N. Wall #1 sample yielded a total lead concentration of 14.7 mg/kg. TPH concentrations in the stockpiled soils ranged from 335 mg/kg (STK #12) to 5,800 mg/kg (STK#2). Benzene concentrations in the stockpiled soils ranged from ND to 1,360 µg/kg (STK #11) while total BTEX concentrations ranged from ND to 85,260 µg/kg (STK #11).

## **5.0 Transportation, and Disposition of Tanks and Associated Wastes**

The tanks were transported to Stuart Hastedt Co. for destruction. Two hundred (200) gallons of water and one thousand sixty gallons (1,060) of residual fuel were removed from the tanks, transported, and disposed of by Movac Environmental Services of Laredo, Texas. Approximately nine hundred gallons of residual fuels removed from the product piping were recycled for use by Gemini Technologies, Inc. Copies of the tank destruction and water and residual fuel disposal manifests are attached.

## **6.0 Soil Management**

Following UST removal and soil sampling, the excavated soil was returned to the excavation and compacted. An additional nine hundred and sixty (960) cubic yards of clean fill was added to the excavation and compacted to grade.

**Release Report Form (TNRCC-0621)**

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**Texas Natural Resource Conservation Commission  
PETROLEUM STORAGE TANK DIVISION  
RELEASE DETERMINATION REPORT**

## **INTRODUCTION**

The PST Division has established a new process for expedited reporting of release determinations by Corrective Action Specialists (CAS), or by Licensed On-Site Supervisors (LOSS) if discovered during a tank removal from service or tank repair activity.

This process facilitates quick response from the TNRCC as to whether or not a release will be pursued as a Leaking Petroleum Storage Tank (LPST) site in order to ensure adequate opportunity to meet the corrective action deadlines stipulated in Title 30, Texas Administrative Code (TAC) §334.312. The TNRCC will rely on the professional documentation of the release determination by the CAS or LOSS, as appropriate, to identify LPST sites. Any release investigation not documented by a CAS or LOSS is not eligible for this expedited process. If the CAS or LOSS identifies a release and the contaminant levels exceed action levels, the site will be filed as an LPST site. If the release determination conducted by the CAS or LOSS does not identify a release or if the CAS or LOSS documents that the release has not resulted in contamination above action levels, then a letter will be provided which concurs with the CAS's or LOSS's findings that the site is not an LPST site. Unless the CAS or LOSS attests by signature to the release investigation results, such a letter will not be issued. The reported information will be randomly examined by the TNRCC for accuracy. Misrepresentations will be pursued as violations of 30 TAC, Chapter 334, Section §334.11 and Subchapters I and J as appropriate. The owner and operator are required to use this form to document suspected and confirmed releases, but participation in the expedited process (use of a CAS or LOSS) is optional, but encouraged.

## **SUSPECTED RELEASES**

There are two different situations that can be described as a suspected release. One situation is when there is an indication that a release may have occurred but there is no evidence of environmental contamination. An example of this situation is when a piping leak detector trips. The tank owner and operator must initiate an investigation to determine whether the equipment is functioning properly. If the equipment is found to be defective and no release has occurred, the owner and operator should comply with all applicable portions of 30 TAC §334.6 relating to Construction Notification and should complete repairs of the equipment. If the equipment is not faulty and it appears a release may have occurred, the tank owner and operator must report the suspected release to the TNRCC Region Office within 24 hours and must have a tightness test conducted on the tanks and piping to determine whether the system is tight. If the tests indicate that the system is tight and there is still no indication of environmental contamination, no further action is necessary. However, if the test indicates that a portion of the tank system is not tight, then the owner and operator must investigate the cause of the test failure to determine if there has been a release. If the tank and piping tests are valid, the leak must be found and the faulty part of the tank system repaired or replaced. A site check must also be conducted to evaluate the native soils and/or groundwater for evidence of a release. The site check must include sampling the native soils in places most likely to be contaminated (including the piping chase, under dispensers, and near or under the tanks) and may be conducted during repair operations or by sampling from borings installed near the potential source(s) of the release. If all likely source areas have been evaluated and contamination is not detected, complete and submit this form to both the TNRCC Office in Austin and to the local Region Office within 45 days after the first observation of the suspected release and indicate that the situation is only a suspected release. If contamination is detected, please refer to the section on Confirmed Releases.

The second type of suspected release involves an environmental impact but the source of the contamination is unknown. An example of this situation is when there is a vapor impact to a sewer line in a street intersection where there is one or more potential sources of contamination. In this situation, the owners and operators of all potential sources will be required to conduct a tightness test and a site check to determine: 1) the tightness status of the tanks and piping, 2) if there is any contamination at their facility, and 3) whether their facility is the source of the environmental impact. If no

contamination is detected, the owner and operator should submit this form to both the TNRCC Office in Austin and to the local Region Office (completing the Summary and Sections A, B, E, and G) within 45 days after the first observation of the problem to indicate that the situation was a suspected release and that contamination was not found. If contamination is detected, please refer to the section on Confirmed Releases.

This discussion is a brief description of the procedures for handling suspected releases. In order to ensure compliance, please review the applicable rules (Title 30, Texas Administrative Code §334.72-334.81) or contact the local Region Office for more information. Please also refer to the flow chart of procedures for handling suspected and confirmed releases included with this document.

## CONFIRMED RELEASES

### Reporting Requirements

All releases must be reported to the TNRCC. If an emergency exists, notify the TNRCC within 24 hours of discovery. If the situation is not an emergency, the release must be reported to the TNRCC within 24 hours of release confirmation (i.e., analytical results or presence of non-aqueous phase liquid).

### Second Set of Confirmation Samples

In situations where the release is discovered during a tank removal-from-service activity and analytical results indicate that the contaminant levels only slightly exceed the Action Levels, then even though the site is considered an LPST site (and should be indicated as such on the *Release Determination Report* form), a site assessment may not be warranted. Instead, the RP may be allowed, with concurrence from the TNRCC Region Office, to conduct additional investigative steps by collecting verification samples prior to a site assessment. This option is available only under the following conditions:

- The tank removal from service activities have just been completed and the tankhold and piping chases have not been filled. The second set of samples must be collected immediately after the results of the initial sampling are received when the sampling locations are easily accessible. However, the tankhold and piping chases must not be left open if they pose a safety hazard in any way;
- No more than two of the native soil samples collected for release determination purposes during a tank removal from service activity exceed action levels. This includes samples collected from the piping chases and from under the dispenser islands as well as samples from the tankhold;
- Verification samples are collected at a location a maximum of five feet vertically (or horizontally if only lateral migration has occurred) from the initial sampling points;
- Groundwater is not present in the excavation;
- Groundwater or surface water is not impacted or threatened;
- There is no indication that the release poses a threat to the public, and the extent (degree of spreading) of the contaminant is minimal;
- Non-aqueous phase liquid (NAPL) is not present in the excavation;
- The tank removal was not initiated in response to a documented impact to a sensitive receptor (water supply well, subsurface utility, spring, etc); and
- The case is not an apparent Priority 1, 2 or 3 (1.1 through 3.5);

If all the above conditions are met and the results of this second confirmation sampling indicates contaminant levels below action levels, the site may be closed.

### Action Levels

The following information provides guidance for determining when to consider a confirmed release as a Leaking Petroleum Storage Tank (LPST) site. The term **RELEASE** is defined in 30 TAC §334.2 as "any spilling including overfills, leaking emitting, discharging, escaping, leaching, or disposing from an underground storage tank into

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groundwater, surface water, or subsurface soils." Therefore, any amount of contamination (as determined by quantitative analytical results on soil or water samples or by the presence of non-aqueous phase liquid (NAPL)) is considered a release and must be reported within 24 hours of confirmation. However, the presence of contamination does not necessarily mean that action is necessary. To determine the need for additional corrective action (which includes assessment and/or remediation), compare the contaminant levels to the listed Action Levels. The term **ACTION LEVEL** indicates the concentration of constituents in the native soil or water at which some level of corrective action will be required. These action levels should not be used as cleanup levels; they are simply levels which signal LPST site determination and the need for additional site evaluation. In general, with the exception of the situation of NAPL in the tankhold, constituent levels in native soils and groundwater must exceed any of the listed action levels to be considered an LPST site. Based on actual site conditions, professional judgement should be used to determine the appropriate application of these levels.

When documentation of analytical results (utilizing the analytical methods specified in the pamphlet entitled *Soil and Groundwater Sampling and Analysis* (RG-14)) obtained from tank removal-from-service documentation or release determination information indicates that the constituent levels in the native soils and/or water exceed any of the action levels, then the site will be considered an LPST case and an LPST ID number will be assigned. There may be some situations where the benzene, ethylbenzene, toluene, and xylenes (BTEX) components are below the action levels and only the Total Petroleum Hydrocarbon (TPH) level exceeds the TPH screening level. In that case, the sample with the highest TPH level should be analyzed for Polynuclear Aromatic Hydrocarbons (PAH) as listed below (remember that PAH analyses have a 14-day holding time). The results should then be compared to the action levels. If the PAH levels (and the BTEX concentrations) do not exceed the action levels, the site will not be considered an LPST site.

Complete and submit this form within 20 days from the date of release confirmation. Typically the next step will be to conduct a Risk-Based Assessment to determine the degree of contamination present, unless a second set of confirmation samples confirmed limited migration of contaminants. A proposal for a risk-based assessment (or other appropriate activities) should be submitted with this form.

ACTION LEVELS AND SCREENING LEVELS			
CONSTITUENTS	SOIL ACTION LEVELS (mg/kg)		GROUNDWATER ACTION LEVELS (mg/l)
	Fine-Grained Soil*	Coarse-Grained Soil*	
Benzene	0.50	0.50	0.005
Ethylbenzene	70	10	0.70
Toluene	100	20	1.0
Total Xylenes	560	70	10
Acenaphthene	314	314	.010
Anthracene	13	13	.010
Benzo(a)anthracene	.877	.877	.010
Benzo(b)fluoranthene	.877	.877	.010
Benzo(k)fluoranthene	8.77	8.77	.010
Benzo(a)pyrene	.0877	.0877	.010
Chrysene	7.2	7.2	.010
Dibenz(a,h)anthracene	.0877	.0877	.010

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ACTION LEVELS AND SCREENING LEVELS			
Fluoranthene	156	156	.010
Fluorene	247	247	.010
Indeno(1,2,3-cd)pyrene	.877	.877	.010
Naphthalene	389	389	.010
Pyrene	99	99	.010
SCREENING LEVELS			
Total Petroleum Hydrocarbons (TPH) for Middle Distillate Releases**	500	500	5
Total Petroleum Hydrocarbons (TPH) for Gasoline Releases**	100	100	5

- \* Apply the fine-grained soil standard to sites dominated with clays and silts. Apply the coarse-grained soil standards to sites dominated with sands, gravels, and rock units.
- \*\* Apply the middle distillate TPH standard to diesel, kerosene, jet fuel, hydraulic oil, and waste oil releases. Apply the gasoline standard to gasoline and aviation gasoline releases. At sites where both gasoline and middle distillate releases have occurred in the same area or tank hold, the gasoline standard will apply.

The listed action levels do not apply when:

- surface water is known or suspected to be impacted by the release;
- a water well or surface water intake is impacted or threatened;
- buildings or utilities are impacted with vapors;
- there are nuisance conditions such as odors, or discoloration or taste degradation to water supplies; or
- NAPL is present, either in the tankhold or in the native soil or groundwater.

In any such instances, the site should be listed as an LPST site.

## PRIORITIZATION

For LPST sites, please review the risk-based prioritization system which starts on page 13. Based on the results of the release investigation and field observations, check any listed scenarios which are reasonably believed to be relevant to the site. Because a receptor survey is not needed to complete this form at this time, this is only for establishing a tentative priority. The actual priority will typically be determined following the completion of a receptor survey or subsequent site assessment.

## PREAPPROVAL OF CORRECTIVE ACTION ACTIVITIES

Written approval from the TNRCC is required for all corrective action activities prior to initiation, with the exception of initial emergency abatement measures for the first 48 hours and NAPL recovery, in order for the reimbursement claims for those activities to be processed in the order received. Claims submitted for activities which have not been preapproved will be processed only after all claims for preapproved activities have been processed and paid. A registered CAS and PM must submit the proposal which includes a work plan with a detailed description of technical tasks and cost proposal form(s). The format for the proposal is specified in the pamphlet entitled *Preapproval for Corrective Action Activities* (RG-111). For more information, please refer to the rules regarding reimbursement in 30 TAC §334.301-334.322.

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## **CORRECTIVE ACTION SPECIALISTS AND PROJECT MANAGERS**

The TNRCC requires that the services of a TNRCC-registered CAS and PM be employed to conduct corrective action services as outlined in Title 30, TAC, Section 334, Subchapter J. These corrective action services include all activities associated with site assessments, performance of risk evaluations, groundwater monitoring and remediation activities at sites at which a release has been confirmed. Corrective action services do not include activities associated with tank removals or repairs or with release determination activities. However, to take advantage of the expedited process and receive the letter concurring with the recommendations that the site is not an LPST site, the attached form must be signed by a LOSS, or CAS and PM as appropriate.

### **PRESENCE OF NON-AQUEOUS PHASE LIQUID**

If assessment activities reveal the presence of any non-aqueous phase liquid (NAPL), then you are required, pursuant to 30 TAC 334.79, to immediately implement a recovery program which effectively removes the product from all impacted monitor wells, the tankhold, the piping chase, etc., to the maximum extent practicable and to notify this Office immediately. Daily observations should be made and appropriate action pursued to ensure that all NAPL is continuously removed.

### **OFF-SITE MIGRATION OF CONTAMINATION**

Pursuant to 30 TAC Section 334.82(b), the owner and operator are required to notify all parties affected by the contamination. If contamination from the release has migrated off-site, or if the TNRCC requires further assessment or other corrective actions off-site, then the owner and operator are required to notify the affected landowner(s) within 30 days of documenting the impact. Please note that landowners may include the owner of the land on which the tanks are located and state and local owners of right-of-way properties. For the purpose of this requirement, notice shall be through any means described in §334.82(a). Please provide documentation that the affected landowner(s) has/have been notified within 30 days of the date notification is provided. Please note that failure to notify affected parties as required herein is grounds for formal enforcement proceedings.

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## RELEASE DETERMINATION REPORT FORM

Owners and operators must report releases by phone to the appropriate TNRCC Region Office within 24 hours of confirmation. The owner and operator should use this form to comply with the reporting requirements in Title 30, Texas Administrative Code §334.77(b). Submit the completed form within 20 days after release confirmation. EXCEPT IN EMERGENCIES, THE TNRCC WILL INITIATE ACTION ON THIS CASE ONLY WHEN THE COMPLETED FORM (pages 6 through 15) IS SUBMITTED WITH ATTACHMENTS TO BOTH THE APPROPRIATE TNRCC REGIONAL OFFICE AND TO THE CENTRAL OFFICE IN AUSTIN (PST Division, MC 137, P.O. Box 13087, Austin, Texas 78711-3087). DO NOT MODIFY THIS FORM IN ANY WAY. Complete all applicable blanks. Incomplete forms will be returned without review. All proposals for the next appropriate corrective action activity must be submitted by a CAS and PM in the format outlined in the guidance document entitled *Preapproval for Corrective Action Activities* (RG-111).

### SUMMARY

Based on the information obtained during this release determination and by comparing the contaminant levels to the stated action levels, check one of these four items as appropriate:

- This was a suspected release. No contamination was detected due to this suspected release.
- This site is an LPST site. Contaminant levels exceed action levels (or one of the other criteria applies).
- This site is not an LPST site. Contaminant levels do not exceed action levels (and none of the other criteria applies).
- This site is not an LPST site. No contamination was detected (and none of the other criteria applies).

IF THIS SITE IS AN LPST SITE, COMPLETE THE REMAINDER OF THIS FORM (except Section B). If this site is not an LPST site, stop here and complete Sections A, C, and G (and Section B if applicable) of the attached form.

- Check here if this site is an existing LPST case and this Release Determination Report is being submitted only as the tank removal-from-service documentation.

Answer the following questions in this Summary Section if this is an LPST case and if the CAS and PM sign the form in Section G. This section is to be completed by a CAS and PM only. If the form is completed by someone other than a CAS and PM, leave the rest of this Summary Section blank and go to Section A.

Is this case eligible for reimbursement of necessary corrective actions?  YES  NO If not, appropriate corrective action in accordance with applicable rules and guidance may continue without specific direction or approval from the PST Division, however, coordination with the PST Division is recommended. If the site is eligible for reimbursement, all corrective action activities, with the exception of NAPL recovery and emergency abatement activities, must be preapproved prior to initiation.

The next appropriate step for this site, if it is an LPST site, is (check one only):

- Case closure If checked, attach *Site Closure Request Form* (TNRCC-0028). Please be sure the site meets all requirements for closure prior to submitting the *Site Closure Request Form*. Are there costs associated with case closure?
  - YES  NO If YES, and if the site is eligible for reimbursement, attach a cost proposal and workplan with the *Site Closure Request Form*.
- Risk-Based Assessment The risk-based assessment is needed only when the existing assessment data is not an adequate basis for site closure. Please critically evaluate the need for additional assessment before selecting this option. Refer to pamphlet RG-175 for guidance on conducting the risk-based assessment.  
Attach a detailed workplan and proposal if the site is eligible for reimbursement. A proposal must be submitted with this form if the RP is financially able to undertake necessary corrective actions.
- Corrective action other than risk-based assessment Attach a detailed workplan and proposal if the site is eligible for reimbursement and the RP is financially able to undertake necessary corrective actions.

Is the responsible party financially able to complete the next appropriate step?  YES  NO If Yes, attach proposal as specified above. If No, contact the PST Division at 512/239-2200 to request information on the State-Lead option. Financial ability determination forms must be completed and submitted to document that the RP is financially unable to continue necessary corrective actions.

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### A. GENERAL INFORMATION

LPST ID No.: 095021  
(If known)

TNRCC Region: 15

Priority: 4.1  
(see pages 13-15)

Facility ID No.: 0009940 Required unless one of the following applies:

Check here if tank registration is not required for this site (per 30 TAC §334.7), and check one of the following as applicable:

- the tank(s) are partially excluded or exempted from jurisdiction under 30 TAC Chapter 334. Specify type or usage of tank(s): \_\_\_\_\_;
- the tank(s) were permanently removed from the ground before May 8, 1986 (provide date of removal \_\_\_\_\_);
- the tank(s) remained in the ground but were emptied, cleaned, and filled with inert substance before January 1, 1974 (provide date of activities: \_\_\_\_\_);
- the tank(s) were out of operation, their existence was unknown, and they were permanently removed from service within 60 days of their discovery (provide date of discovery: \_\_\_\_\_). Describe method of discovery: \_\_\_\_\_

Prior to this investigation, was this site ever an LPST site?  YES or  NO If yes, provide LPST ID number: 095021

Tank Owner: City of Laredo

Tank Owner Mailing Address: P.O. Box 579

Tank Owner City: Laredo State: TX Zip: 78042

Tank Owner Contact Person: Brent Christian Phone: (210) 795-2000 Fax no.: (210)795-2572

Tank Operator (if different from tank owner): \_\_\_\_\_

Tank Operator Mailing Address: \_\_\_\_\_

Tank Operator City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_

Tank Operator Contact Person: \_\_\_\_\_ Phone: \_\_\_\_\_ Fax no.: \_\_\_\_\_

Land Owner (if different from tank owner and operator): \_\_\_\_\_

Land Owner Mailing Address: \_\_\_\_\_

Land Owner City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_

Land Owner Contact Person: \_\_\_\_\_ Phone: \_\_\_\_\_ Fax no.: \_\_\_\_\_

If this site is an LPST site, which of these parties will oversee the corrective actions at this site?

Tank Owner  Tank Operator  Land Owner

Other (not the contractor or consultant): Name: \_\_\_\_\_

Address: \_\_\_\_\_

City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_ Contact person: \_\_\_\_\_

Phone: \_\_\_\_\_ Fax: \_\_\_\_\_

A representative of the party overseeing the corrective action must sign this form in Section G. Please note that no matter which party conducts corrective action, the tank owner and the tank operator are jointly responsible for the necessary corrective actions.

Facility Name: Laredo International Airport Fuel Farm

Facility Physical Address: Flightline Rd., Laredo International Airport

Facility City: Laredo County: Webb County Code (see p. 16): 240

INDICATE TYPE OF RELEASE: (check one)  Suspected  Confirmed but below action levels (not an LPST site)

Confirmed and above action levels (LPST site)  No evidence of contamination (all results below detection limits)

Please refer to flowchart and Title 30 Texas Administrative Code, §334.71 - 334.77 for descriptions and procedures for suspected and confirmed releases.

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#### A. GENERAL INFORMATION

Were copies of this **COMPLETED** form (excluding pages 1 through 5) **AND APPROPRIATE ATTACHMENTS**, including a proposal (if RP is financially able), sent to both the TNRCC Central Office and to the Region Office?  YES  NO (IF THE FORM IS NOT COMPLETE, THIS DOCUMENT WILL BE RETURNED WITHOUT REVIEW).

Indicate number of tanks currently and formerly located at this site (attach pages as necessary):

Type (UST/AST)	Product Type	Size (approx. gal)	Date Removed from Service
Current:			
Former:	UST	Jet A	June 6, 1997
	UST	Jet A	June 6, 1997
	UST	Aviation Gas	June 6, 1997
	UST	Aviation Gas	June 5, 1997
	UST	Aviation Gas	June 5, 1997
	UST	Aviation Gas	June 5, 1997

#### B. SUSPECTED RELEASE INFORMATION

Complete only this section and sections E through G as appropriate when the situation of a suspected release has occurred and it was documented that a release had not occurred.

Date suspected release discovered: \_\_\_\_\_ Reason release suspected: \_\_\_\_\_

Date suspected release reported to TNRCC: \_\_\_\_\_ Reported to: \_\_\_\_\_

Possible source(s) of release: (check all that apply) Tanks:  USTs  ASTs  Piping  Overfills/spills  Unknown

Other: \_\_\_\_\_

Type of substance(s) suspected released: (check all that apply)  Gasoline  Diesel  Used Oil  Aviation Gasoline  
 Jet Fuel (type: \_\_\_\_\_)  Alcohol-blended fuel (Type and percentage of alcohol: \_\_\_\_\_)  
 Other: (be specific) \_\_\_\_\_

Were UST/AST system tank and/or line tightness tests performed?  YES or  NO (check one) If yes, attach test data and results.  
Did the tests indicate that all tanks and piping were tight?  YES or  NO (check one) If No, specify the portion of the tank system(s) that were found not to be tight: \_\_\_\_\_

Were any repairs conducted on the tank system(s)?  YES or  NO (check one) If yes, describe type(s) and location of repairs: \_\_\_\_\_

Were tightness tests performed after repairs were conducted?  YES or  NO (check one) If yes, attach test data and results.  
Did the tests indicate that the repaired items were tight?  YES or  NO If No, specify the portion of the tank system(s) that were found not to be tight: \_\_\_\_\_

Were any soil confirmation samples collected?  YES or  NO (check one) If yes, were all potential source areas investigated?  
 YES or  NO If samples were collected, attach descriptions of sample locations, collection methods, and laboratory results.

Were any groundwater confirmation samples collected?  YES or  NO (check one) If yes, were all potential source areas investigated?  
 YES or  NO If samples were collected, attach descriptions of sample locations, collection methods, aquifer name, and laboratory results. (Groundwater sampling is not required at this point unless there is reasonable suspicion of impact.)

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**C. CONFIRMED RELEASE INFORMATION**  
Complete this section only if a release was confirmed.

Date release confirmed: 3/12/90 Date release reported to TNRCC: 3/13/90 Reported to: Mr. William Morris

Is this the first release from a UST or AST discovered at this site?  YES  NO

Is there any other contamination or potential impacts to human health from any source other than the tank systems at this site?

YES  NO If yes, indicate type and location of contamination:

Reported to TNRCC by: Unknown

Representing: \_\_\_\_\_

Method of release discovery:

- |   |  |
|---|--|
| <input checked="" type="checkbox"/> Samples collected during tank removal-from-service activities | <input type="checkbox"/> Impact to utility line  |
| <input type="checkbox"/> Samples collected during other tank system construction activities       | <input type="checkbox"/> Impact to surface water |
| <input type="checkbox"/> Samples collected during release determination investigation             | <input type="checkbox"/> Impact to water well    |
| <input checked="" type="checkbox"/> Other: <u>NAPL impact in vapor monitor well (3/12/90)</u>     |  |

Method of release confirmation: (check all that apply)

Soil samples  Groundwater samples  Surface water samples  Documentation of presence of NAPL

Source(s) of release: (check all that apply) Tanks:  USTs  ASTs  Piping  Overfills/spills  Unknown

Other: Valves

Substance(s) released: (check all that apply)  Gasoline  Diesel  Used Oil  Aviation Gasoline

Alcohol-blended fuel (Type and percentage of alcohol: \_\_\_\_\_)

Jet Fuel (type: A)  Other: (be specific) \_\_\_\_\_

Amount of product released: \_\_\_\_\_ Chemical Abstract Service registry #: \_\_\_\_\_ (for hazardous substances)

Were any soil confirmation samples collected?  YES or  NO (check one) If yes, attach descriptions of sample locations, collection methods and laboratory results.

Type of native soil: (check one)  Clay or silt  Sand, gravel or rock

Were any groundwater confirmation samples collected?  YES or  NO (check one) If yes, attach descriptions of sample locations, collection methods, aquifer name, and laboratory results.

Known Impact(s): (check all that apply)  Soil  GW  Surface Water  Subsurface Utilities - type: \_\_\_\_\_

Buildings  Water wells  Other sensitive receptors: \_\_\_\_\_

Was the land owner (if different from the tank owner) notified of the contamination?  YES or  NO (check one) If Yes, attach copy of the letter which provided the notification. If No, documentation that notification was provided must be submitted within 30 days from the date the impact is discovered.

Possibly Threatened: (check all that apply)  GW  Surface Water  Subsurface Utilities - type: \_\_\_\_\_

Buildings  Water wells  Other sensitive receptors: \_\_\_\_\_

Was NAPL detected (greater than 0.01 feet)?  YES or  NO (check one) If yes, describe how and where it was detected, the thickness detected, and the recovery actions taken: NAPL (thickness unknown) was detected in a vapor monitor well on 3/12/90. Two (2) inches of NAPL was observed in RW-5 using an NAPL interface bailed prior to the destruction of the well during tank removal activities.

No NAPL was recovered from the open excavation.

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#### D. ABATEMENT MEASURES

Were abatement measures initiated to stop the release or to recover the released substance?  YES or  NO (check one) If yes, describe the abatement and/or recovery measures taken and the dates and duration of the activities: Two (2) NAPL recovery wells were installed 4/10/90 to recover free product

Were UST/AST system tank and/or line tightness tests performed?  YES or  NO (check one) If yes, attach test results. Did the tests indicate that all tanks and piping were tight?  YES or  NO If No, specify the portion of the tank system(s) that were found not to be tight:

Were any repairs conducted on the tank system(s)?  YES or  NO (check one) If yes, describe type(s) and location of repairs:

Were tightness tests performed after repairs were conducted?  YES or  NO (check one) If yes, attach test results. Did the tests indicate that the repaired items were tight?  YES or  NO If No, specify the portion of the tank system(s) that were found not to be tight:

#### E. FIRE/OTHER OFFICIALS

Were any other officials notified?  YES  NO (check one) If Yes, indicate:

Name	Representing	Phone number	Date(s) Notified
William Morris	TNRCC Region 15	(210) 791-7346	May 28, 1997
Eugene Moncivais	City of Laredo Fire Dept.	(210) 795-2153	May 29, 1997

Were any directives issued by the fire or other officials?  YES  NO If Yes, describe directives and actions taken in response to the directive: Soil sample locations were directed by Mr. William Morris. Soil samples were collected as per instructions.

#### F. WASTE DISPOSITION

Indicate the status of all wastes and other materials generated:

Type of waste (soil, water, product)	Quantity	Current location	Method and location of disposal or treatment
Steel UST's (25,000 gallon)	6	Stuart Hadstedt Co.	Destroyed by Stuart Hadstedt Co.
Residual Fluids (fuel and water)	1,260 gallons	Movac Environmental	Disposed of by Movac Environmental Services
Residual Fuel	900 gallons	Gemini Technologies Yard	Recycled by Gemini Technical Services

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## G. REPORT PREPARATION

A Licensed On-Site Supervisor may complete and sign this form when the supervisor is acting in an approved capacity for tank removal-from-service or tank system repair activities.

Licensed On-Site Supervisor: \_\_\_\_\_ ILP Reg. No.: \_\_\_\_\_ Exp. Date: \_\_\_\_\_

Company: \_\_\_\_\_

Telephone No.: \_\_\_\_\_ FAX No.: \_\_\_\_\_

Based on the results of the site investigation and the additional information presented herein, I certify that the site investigation activities performed either by me, or under my direct supervision, including subcontracted work, were conducted in accordance with accepted industry standards/practices and further, that all such tasks were conducted in compliance with applicable TNRCC published rules, guidelines and the laws of the State of Texas. I have reviewed the information included within this report, and consider it to be complete, accurate and representative of the conditions discovered during the site investigation. I acknowledge that if I intentionally or knowingly make false statements, representations, or certifications in this report, I may be subject to administrative, civil, and/or criminal penalties.

Signature: \_\_\_\_\_ Date: \_\_\_\_\_

**OR**

Project Manager: Robert V. Hill PM Reg. No.: 00783 Exp. Date: 10/29/97

Company: Applied Earth Sciences, Inc.

Telephone No.: (512) 854-9182 FAX No.: (512) 854-07034

Based on the results of the site investigation and the additional information presented herein, I certify that the site investigation activities performed either by me, or under my direct supervision, including subcontracted work, were conducted in accordance with accepted industry standards/practices and further, that all such tasks were conducted in compliance with applicable TNRCC published rules, guidelines and the laws of the State of Texas. I have reviewed the information included within this report, and consider it to be complete, accurate and representative of the conditions discovered during the site investigation. I acknowledge that if I intentionally or knowingly make false statements, representations, or certifications in this report, I may be subject to administrative, civil, and/or criminal penalties.

PM Signature: *Robert V. Hill* Date: 7/29/97

**AND**

CAS Representative: Brent Balusek CAS Reg. No.: 00089 Exp. Date: 10/4/97

Company: Applied Earth Sciences, Inc.

Telephone No.: (512) 854-9182 FAX No.: (512) 854-0734

By my signature affixed below, I certify that I am the duly authorized representative of the Correction Action Specialist named and that I have personally reviewed the site investigation results and other relevant information presented herein and considered them to be in accordance with accepted standards/practices and in compliance with the applicable TNRCC published rules, guidelines and the laws of the State of Texas. Further, that the information presented herein is considered complete, accurate and representative of the conditions discovered during the site investigation. I acknowledge that if I intentionally or knowingly make false statements, representations, or certifications in this report, I may be subject to administrative, civil, and/or criminal penalties.

Signature of CAS Representative: *Brent Balusek* Date: 7/29/97

If the CAS or On-Site Supervisor does not complete and sign this form, provide the following information on the person who has prepared the form:

Name: \_\_\_\_\_ Company: \_\_\_\_\_

Telephone No.: \_\_\_\_\_ FAX No.: \_\_\_\_\_

Signature: \_\_\_\_\_ Date: \_\_\_\_\_

Name of Tank Owner or Operator contact: Brent Christian

Telephone No.: (210) 791-7346 FAX No.: (210) 791-7496

By my signature affixed below, I certify that I have reviewed this report for accuracy and completeness of information regarding points of contact and the facility and storage tank system history and status. I acknowledge that if I intentionally or knowingly make false statements, representations, or certifications in this report related to the contact information, and the facility and storage tank system history and status information, I may be subject to administrative, civil, and/or criminal penalties. I attest that I have reviewed this report for accuracy and completeness. I understand that I am responsible for addressing this matter.

Signature: *Brent Christian P.G., CAPM 00565* Date: 08/11/97

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**ATTACHMENTS:**

The following information must be submitted with this document:

- Copy of letter notifying land owners of the existence of contamination (if applicable);
- Site diagram with location of the tank system(s), suspected or known point of release(s), and all sampling points;
- If borings were drilled, copies of the boring logs;
- Copies of the State of Texas Well Reports (form no. TNRCC-0199) for any installed monitor wells;
- List of analytical results and sample identification for all soil and water samples collected;
- Descriptions of sample collection and handling methods;
- Copies of signed laboratory reports and chain-of-custody documentation;
- Copies of most recent tank system tightness tests, if performed;
- Documentation of any tank system repairs or replacements; and
- Waste disposal, treatment, or recycling or reuse documentation, including manifests and signed receipts from the receiving facility for any wastes already generated.

Also include the following attachments (in addition to the applicable items listed above) if this form serves as the documentation as required by 30 TAC 334.55 for a tank removal-from-service:

- A written description of the tanks and/or piping at the time of their removal;
- A written description of the removal, transportation, and disposition of the tank(s), all substances removed from the tank, all contaminated soils and water, and all other associated wastes;
- A copy of the original Construction Notification form which was filed for the removal activity;
- The TNRCC Central Office tracking number for the removal activity. If unknown, then provide a copy of the TNRCC letter which acknowledged receipt of the original Construction Notification form;
- A copy of the amended TNRCC UST Registration form (form no. TNRCC-0724), signed by the owner or the owner's representative, showing the date the tank(s) was/were removed from the ground. **Submit the original registration form to the PST Division's Registration Section at the address listed on the form.** Submit a copy of the form with this document.
- A site map (drawn to scale) which portrays the following: the locations and types of USTs formerly in place; the locations of the former product lines and dispenser; the locations (with designation numbers) of all samples collected during the UST removal process; the final limits of excavation; a North arrow; and a legend and bar scale.
- The inclusion of photographs can be helpful when describing tank and/or piping conditions or the removal process. If photos are provided, they should be glued or taped to a letter-sized sheet of paper with a description of the view typed or printed beneath each photo.

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## LPST CASE PRIORITIZATION

The actions listed for each priority serve as a guide to assist the tank owner and operator in determining appropriate actions based on site conditions. Preapproval for corrective action activities should be obtained for sites eligible for reimbursement. Please refer to the applicable rules in Title 30, Texas Administrative Code, §334.72-334.81 and other TNRCC guidance for more detailed information.

### PRIORITY 1 SITES

Is NAPL (free product) present?  yes  no Utilize all known information on site soils, vapors, groundwater, surface water, and other impacts and mark all boxes which match site conditions. The lowest value is the site priority. If the answers to any statements are unknown, additional assessment, usually in the form of a Risk-Based Assessment (RBA), should be completed.

PRIORITY	ACTIONS
<input type="checkbox"/> 1.1	<p><b>Emergency Actions:</b> Notify appropriate authorities, property owners, and potentially affected parties. Mitigate vapor impact.</p> <p><b>Additional Actions:</b> Conduct receptor survey. Conduct assessment of contaminant plumes. Determine target cleanup levels. Conduct remediation as necessary.</p>
<input type="checkbox"/> 1.2	<p><b>Emergency Actions:</b> Notify appropriate authorities, well users, and property owners. Prevent further migration. Mitigate impact. Discontinue use of water supply.</p> <p><b>Additional Actions:</b> Provide alternative water source*. Conduct receptor survey. Conduct assessment of contaminant plumes in relation to water supply impact. Determine target cleanup levels. Conduct remediation as necessary.</p>
<input type="checkbox"/> 1.3	<p><b>Emergency Actions:</b> Notify appropriate authorities, well users, and property owners. Prevent further migration. Mitigate impact. Discontinue use of water supply.</p> <p><b>Additional Actions:</b> Provide alternative water source*. Conduct receptor survey. Conduct assessment of contaminant plumes in relation to water supply impact. Determine target cleanup levels. Conduct remediation as necessary.</p>
<input type="checkbox"/> 1.4	<p><b>Emergency Actions:</b> Notify appropriate authorities, property owners, and affected parties. Mitigate vapor impact.</p> <p><b>Additional Actions:</b> Conduct receptor survey. Conduct assessment of contaminant plumes. Determine target cleanup levels. Conduct remediation as necessary.</p>
<input type="checkbox"/> 1.5	<p><b>Emergency Actions:</b> Notify appropriate authorities, property owners, and affected parties. Secure area.</p> <p><b>Additional Actions:</b> Conduct free product removal activities. Prevent migration of free product. Conduct assessment in relation to impact. Conduct receptor survey. Determine target cleanup levels. Conduct remediation as necessary.</p>
<input type="checkbox"/> 1.6	<p><b>Emergency Actions:</b> Recover free product if present.</p> <p><b>Additional Actions:</b> Initiate assessment activities. Conduct assessment in relation to impact. Conduct receptor survey. Determine target cleanup levels. Conduct remediation as necessary. Determine if free product is present and, if so, conduct free product removal activities.</p>
<input type="checkbox"/> 1.7	<p><b>Emergency Actions:</b> Notify appropriate authorities, property owners, and affected parties. Mitigate immediate impacts.</p> <p><b>Additional Actions:</b> Conduct sufficient assessment to determine exposure pathways, receptor types and locations, and target cleanup goals. Determine if free product is present and, if so, conduct free product removal activities.</p>

\*Reimbursement for provision of alternative water supply is contingent upon 30 TAC 334.308 (c)(3).

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## PRIORITY 2 SITES

PRIORITY		ACTIONS
<input type="checkbox"/> 2.1	Soils or water contaminated by the release are exposed and unsecured from public access and dwellings, playgrounds, parks, day care centers, schools, or similar use facilities are located within 500 feet of those soils.	Remove, cover, or otherwise secure exposed soils or water. Fill open excavations. Conduct actions necessary to contain contamination or prevent impact or exposure.
<input type="checkbox"/> 2.2	A former vapor impact is associated with this site, or free product is present in close proximity to subsurface utilities or other natural or man-made conduit and there is potential for the accumulation of explosive vapors or vapors that could cause acute effects in a building or other structure.	Remediate/remove vapors, free product, or contaminated soils. Determine migration pathways and remove/prevent migration pathways. Conduct assessment of contaminant plumes in relation to the potential vapor pathway. Determine target cleanup levels. Conduct actions necessary to contain contamination or prevent impact or exposure.
<input type="checkbox"/> 2.3	A domestic water supply well or line, or a domestic surface water intake is impacted or immediately threatened by the release, but the user has access to another public or private water supply. (Ensure the user and the local TNRCC Region Office have been notified.)	Notify proper authorities, users, and property owners. Prevent migration to water intake. Provide alternative water supply if necessary. Conduct assessment to identify contaminant plumes and exposure pathways in relation to water intake. Determine appropriate target cleanup goals based on site conditions. Conduct actions necessary to contain contamination or prevent impact or exposure.
<input type="checkbox"/> 2.4	A non-public or non-domestic water supply well is impacted or immediately threatened. (Do not consider monitor wells.) (Ensure the user and the local TNRCC Region Office have been notified.)	Notify proper authorities, well users, and property owners. Prevent migration to water well. Provide alternative water supply if necessary. Plug water well if necessary. Conduct assessment to identify contaminant plumes and exposure pathways in relation to water well. Determine appropriate target cleanup goals based on site conditions. Conduct actions necessary to contain contamination or prevent impact or exposure.
<input type="checkbox"/> 2.5 <sup>1</sup>	Groundwater is impacted and a public or domestic water supply well is located within 0.25 miles of the UST/AST system or source area. (Answer yes if a well is present, but the well use is unknown). (See footnote 1 before responding.)	Determine completion data and usage of well(s) if not already known. Conduct receptor survey to locate additional wells and other potential receptors (if not already done). Evaluate well impact potential. Determine appropriate cleanup goals based on site conditions. Conduct actions necessary to contain contamination or prevent impact or exposure.
<input type="checkbox"/> 2.6	Groundwater or storm water runoff is impacted and discharges within 500 feet of the known extent of contamination to a surface water body used for human drinking water, contact recreation, habitat to a protected or listed endangered plant and animal species.	Conduct assessment which addresses the contaminant plumes in relation to the surface water. Determine target cleanup levels. Conduct actions necessary to contain contamination or prevent impact or exposure. Notify property owners if impact is documented.
<input type="checkbox"/> 2.7	A public or domestic water supply well that produces from a groundwater zone which is not impacted or threatened is located within the known extent of contamination. (Answer yes if a well is present, but the well use is unknown.)	Notify well users and property owners. Determine completion data and usage of water well(s). Conduct receptor survey to locate additional sensitive receptors. Investigate well impact or cross-contamination potential. Plug well(s) if necessary. Determine target cleanup levels. Conduct actions necessary to contain contamination or prevent impact or exposure. Monitor water well for groundwater quality.

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### PRIORITY 3 SITES

PRIORITY	ACTIONS
<input type="checkbox"/> 3.1 <sup>1</sup>	Determine completion data and usage of well(s) if not already known. Conduct receptor survey to locate additional wells and other potential receptors (if not already done). Evaluate well impact potential. Evaluate need for remediation.
<input type="checkbox"/> 3.2	Conduct assessment which evaluates potential to impact the surface water. Evaluate need for remediation.
<input type="checkbox"/> 3.3 <sup>1</sup>	Determine completion data and usage of well(s) if not already known. Conduct receptor survey to locate additional wells and other potential receptors (if not already done). Evaluate well impact potential contaminate. Evaluate need for remediation.
<input type="checkbox"/> 3.4	Notify well users and property owners. Determine completion data and usage of well(s) if not already known. Conduct receptor survey to locate additional wells and other potential receptors (if not already done). Investigate well impact or cross-contamination potential. Monitor water well for groundwater quality. Evaluate need for remediation.
<input type="checkbox"/> 3.5 <sup>2</sup>	Conduct assessment of soil and groundwater contaminant plumes in relation to major or minor aquifer. Conduct receptor survey and water well inventory. Evaluate need for remediation.

### PRIORITY 4 SITES

PRIORITY	ACTIONS
<input type="checkbox"/> 4.0	Conduct assessment of soil and/or groundwater contaminant plumes. Conduct receptor survey and water well inventory. Evaluate site conditions to determine need for additional corrective actions.
<input checked="" type="checkbox"/> 4.1	Conduct assessment of soil and groundwater contaminant plumes. Conduct receptor survey and water well inventory. Evaluate site conditions to determine need for additional corrective actions.
<input type="checkbox"/> 4.2	Conduct assessment of soil contaminant plume. Conduct receptor survey and water well inventory. Evaluate site conditions to determine need for additional corrective actions.

1. Consider only wells producing from the same interval as the impacted groundwater zone at the release site, wells which may provide a cross-contamination pathway, or wells where completion details are unknown.

2. Refer to Major and Minor Aquifers of Texas Maps prepared by Texas Water Development Board, September 1990. Do not consider the low permeability Beaumont clays of the Beaumont Formation for the Gulf Coast aquifer. Do not consider a perched groundwater zone overlaying the principal producing portion of the aquifer unless the two are hydrologically connected.

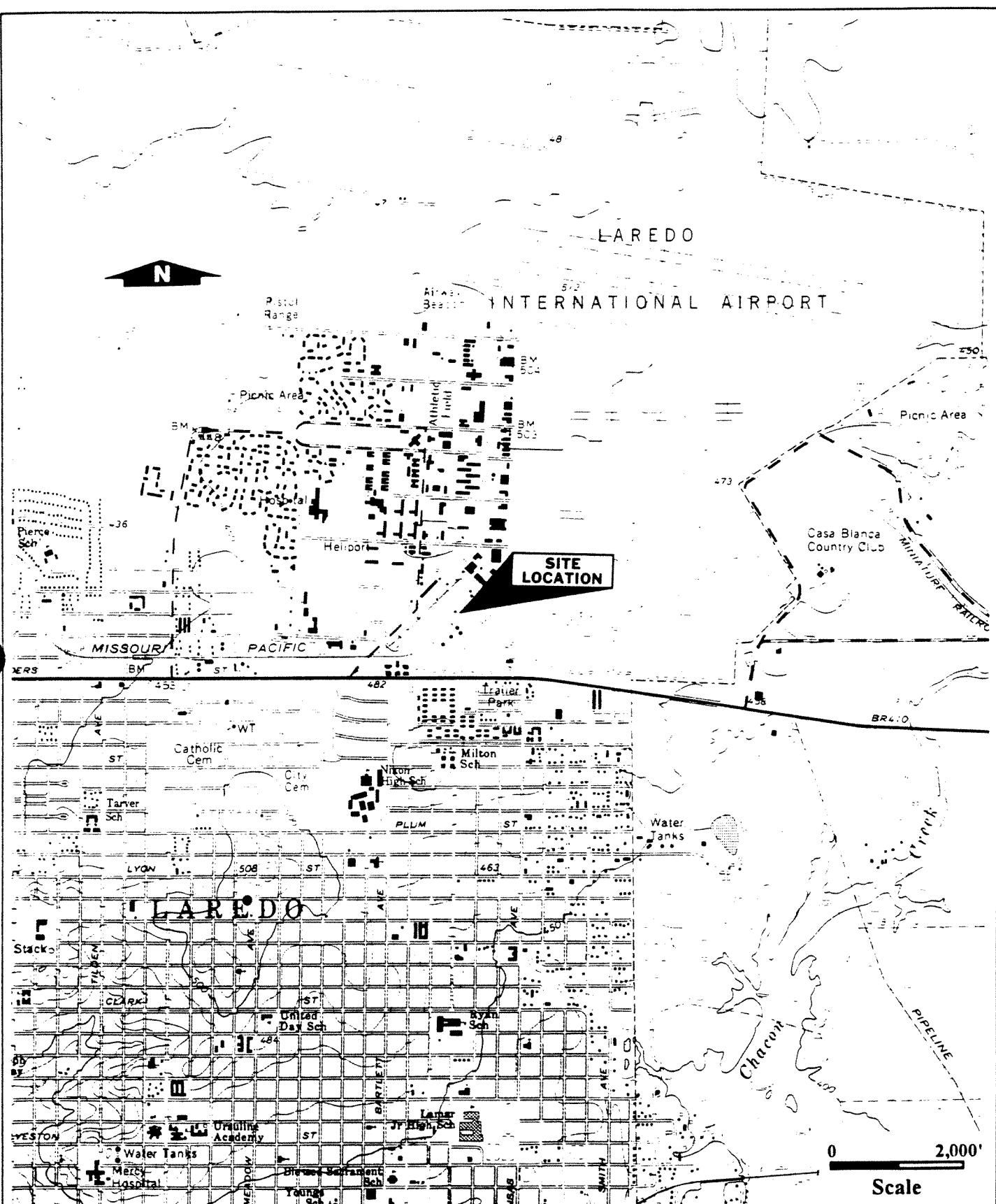
01873

**COUNTY CODE LIST**

1	Anderson	38	Childress	75	Fayette	112	Hopkins	149	Live Oak	186	Pecos	223	Terry
2	Andrews	39	Clay	76	Fisher	113	Houston	150	Llamb	187	Polk	224	Throckmorton
3	Angelina	40	Cochran	77	Floyd	114	Howard	151	Loving	188	Potter	225	Titus
4	Aransas	41	Coke	78	Foard	115	Hudspeth	152	Lubbock	189	Presidio	226	Tom Green
5	Archer	42	Coleman	79	Fort Bend	116	Hunt	153	Lynn	190	Rains	227	Travis
6	Armstrong	43	Collin	80	Franklin	117	Hutchinson	154	McCulloch	191	Randall	228	Trinity
7	Atascosa	44	Collingsworth	81	Freestone	118	Irion	155	McLennan	192	Reagan	229	Tyler
8	Austin	45	Colorado	82	Frio	119	Jack	156	McMullen	193	Real	230	Upshur
9	Bailey	46	Comal	83	Gaines	120	Jackson	157	Madison	194	Red River	231	Upton
10	Bandera	47	Comanche	84	Galveston	121	Jasper	158	Marion	195	Reeves	232	Uvalde
11	Bastrop	48	Concho	85	Garza	122	Jeff Davis	159	Martin	196	Refugio	233	Val Verde
12	Baylor	49	Cooke	86	Gillespie	123	Jefferson	160	Mason	197	Roberts	234	Van Zandt
13	Bee	50	Coryell	87	Glasscock	124	Jim Hogg	161	Matagorda	198	Robertson	235	Victoria
14	Bell	51	Cottle	88	Goliad	125	Jim Wells	162	Maverick	199	Rockwell	236	Walker
15	Bexar	52	Crane	89	Gonzales	126	Johnson	163	Medina	200	Runnels	237	Waller
16	Blanco	53	Crockett	90	Gray	127	Jones	164	Menard	201	Rusk	238	Ward
17	Borden	54	Crosby	91	Grayson	128	Karnes	165	Midland	202	Sabine	239	Washington
18	Bosque	55	Culberson	92	Gregg	129	Kaufman	166	Milan	203	San	240	Webb
19	Bowie	56	Dallam	93	Grimes	130	Kendall	167	Mills	204	San Jacinto	241	Wharton
20	Brazoria	57	Dallas	94	Guadalupe	131	Kenedy	168	Mitchell	205	San	242	Wheeler
21	Brazos	58	Dawson	95	Hale	132	Kent	169	Montague	206	San Saba	243	Wichita
22	Brewster	59	Deaf Smith	96	Hall	133	Kerr	170	Montgomery	207	Schleicher	244	Wilbarger
23	Briscoe	60	Delta	97	Hamilton	134	Kimble	171	Moore	208	Scurry	245	Willacy
24	Brooks	61	Denton	98	Hansford	135	King	172	Morris	209	Shackelford	246	Williamson
25	Brown	62	DeWitt	99	Hardeman	136	Kinney	173	Motley	210	Shelby	247	Wilson
26	Burleson	63	Dickens	100	Hardin	137	Kleberg	174	Nacogdoches	211	Sherman	248	Winkler
27	Burnet	64	Dimmit	101	Harris	138	Knox	175	Navarro	212	Smith	249	Wise
28	Caldwell	65	Donley	102	Harrison	139	Lamar	176	Newton	213	Somerville	250	Wood
29	Calhoun	66	Duval	103	Hartley	140	Lamb	177	Nolan	214	Starr	251	Yoakum
30	Callahan	67	Eastland	104	Haskell	141	Lampasas	178	Nueces	215	Stephens	252	Young
31	Cameron	68	Ector	105	Hays	142	La Salle	179	Ochiltree	216	Sterling	253	Zapata
32	Camp	69	Edwards	106	Hemphill	143	Lavaca	180	Oldham	217	Stonewall	254	Zavala
33	Carson	70	Ellis	107	Henderson	144	Lee	181	Orange	218	Sutton		
34	Cass	71	El Paso	108	Hidalgo	145	Leon	182	Palo Pinto	219	Swisher		
35	Castro	72	Erath	109	Hill	146	Liberty	183	Panola	220	Tarrant		
36	Chambers	73	Falls	110	Hockley	147	Limestone	184	Parker	221	Taylor		
37	Cherokee	74	Fannin	111	Hood	148	Lipscomb	185	Parmer	222	Terrell		

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**Figure 1**  
**(Site Location Map)**



Applied Earth Sciences, Inc.

Project No. 265-00001-01

**City of Laredo  
Airport Fuel Farm Facility  
Laredo, Texas**

## **Topographic Location**

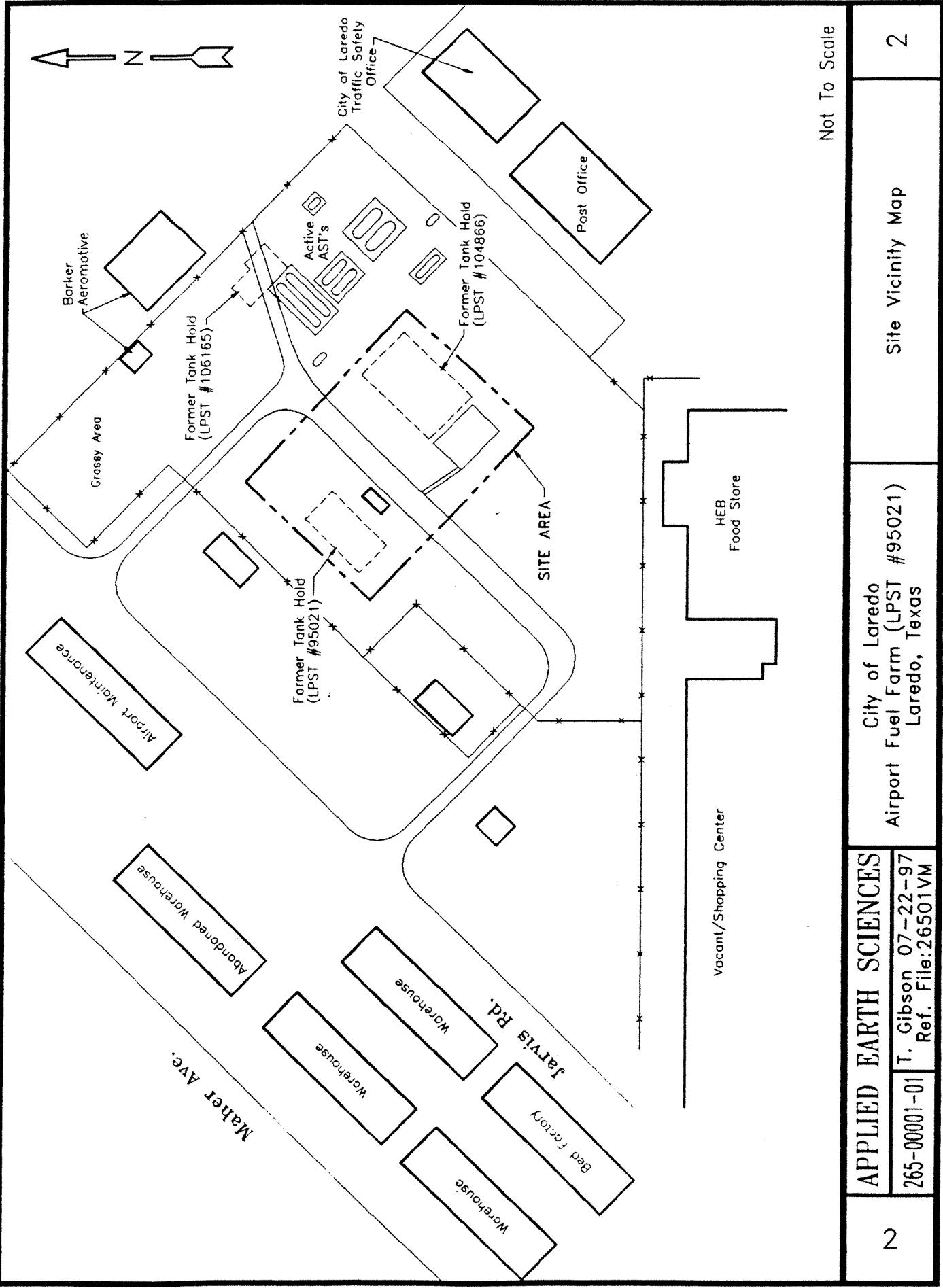
## Figure 1

01882

**Figure 2**

**(Site Vicinity Map)**

01883



APPLIED EARTH SCIENCES	City of Laredo Fuel Farm (LPST #95021) Laredo, Texas
265-00001-01	T. Gibson 07-22-97 Ref. File: 26501VM

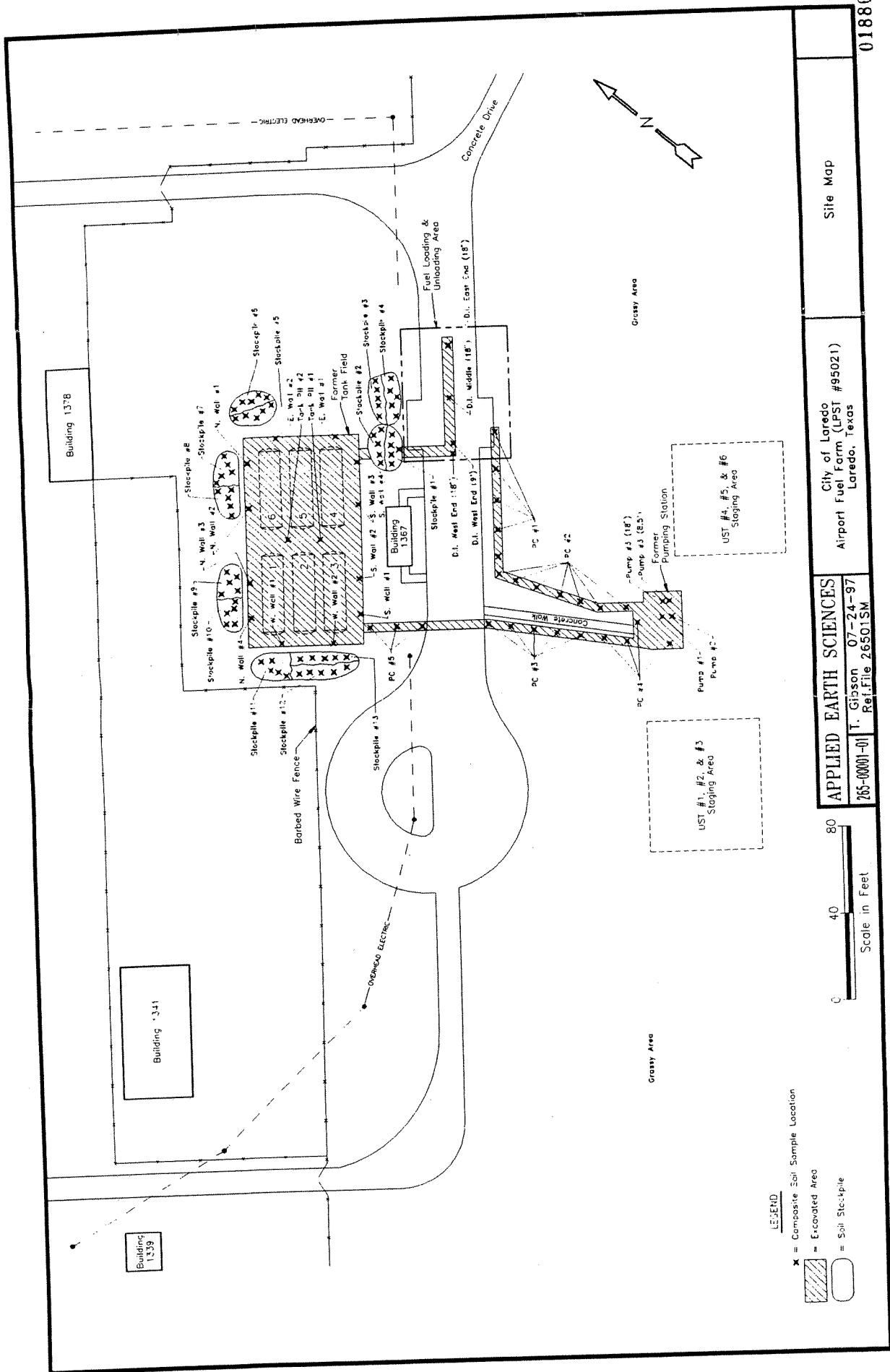
Site Vicinity Map

2

01884

**Figure 3**

**(Site Map)**



**PST Site Documentation form (TNRCC-0091)**

**01887**



# PST SITE DOCUMENTATION

SITE NAME Laredo International Airport Fuel Farm  
SITE ADDRESS 518 Flightline, Laredo

INSPECTION DATE 6-4 & 6-5-97

The purpose of this form is to document field communications made between the TNRCC and PST owners/operators/representatives.

FACILITY ID NO. 9940

LPST ID NO. 95021

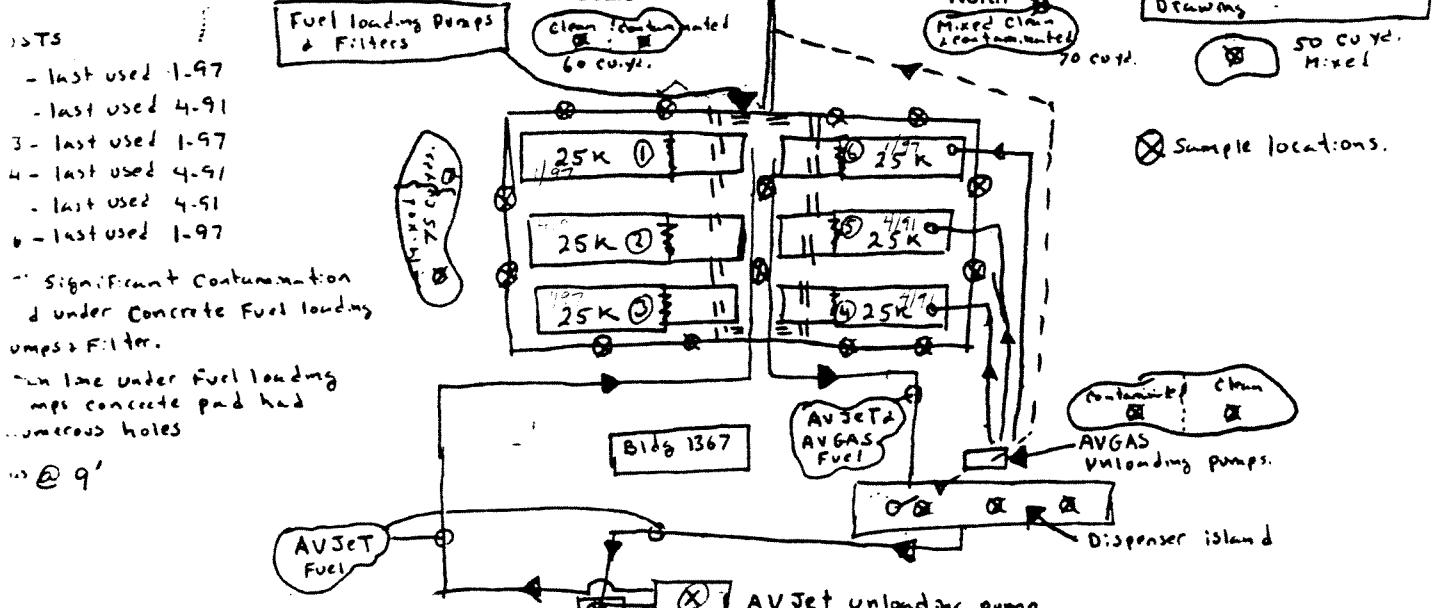
TRACKING NO. 970502028

INSPECTOR William F. Morris

Fuel Separator Tank

TYPE OF INSPECTION:  Construction  Corrective Action  Compliance Evaluation  Other

SITE DIAGRAM:



Show location(s) of original (replacement) tank(s), line(s), excavation, boring(s), monitor/observation well(s), etc.

DIRECTIVES: Due to GW in tank hole, sample 6" above GW level in interface zone. (2) pipe chase-Collect Sample every 15-20 FT, run Headspace, if appears clean, composite samples, if contamination observed, collect separate sample 18" below greasing. (3) AV JET unloading pumps, collect sample under each pump (18") (4) Dispenser Island, 3 samples @ 18" (5) return backfill to tank hole, bring to DIRECTIONS: grade with clean fill. (6) Fax lab results to R-15 with drawing or collection points.

Soil Samples to be analyzed for TPH + BTEX. Collect samples (2) under DUE DATE: \_\_\_\_\_

Concrete pad for fuel loading pumps & filters. Run Total lead on sample with highest BTEX.

This site documentation is intended to identify on-site directives, facility inspections, and release response activities. Regulatory guidances are available from the TNRCC throughout the course of all on-site activity.

This document reflects the assessment of site conditions by the TNRCC and is not intended to limit the scope of remediation necessary. In order to be reimbursed by TNRCC, an owner or operator must be eligible under TNRCC rules and the items performed must be allowable and reimbursable under the TNRCC rules. This document alone does not mean a person is eligible or that any costs incurred are allowable or reasonable.

William J. Morris  
TNRCC Field Inspector

6-5-97  
Date

Brent Balusek  
Received by Owner/Operator/Representative

6/5/97  
Date

01888

**Table 1**

**(Soil Sample Analyses)**

01880

Table 1

Soil Sample Analyses City of Laredo Airport Fuel Farm Facility Laredo, Texas LPST #95021										
<u>Sample ID</u>	<u>Date</u>	<u>Depth</u> (ft.bgs)	<u>Benzene</u> ( $\mu\text{g}/\text{kg}$ )	<u>Toluene</u> ( $\mu\text{g}/\text{kg}$ )	<u>benzene</u> ( $\mu\text{g}/\text{kg}$ )	<u>Xylenes</u> ( $\mu\text{g}/\text{kg}$ )	<u>BTEX</u> ( $\mu\text{g}/\text{kg}$ )	<u>TPH</u> ( $\text{mg}/\text{kg}$ )	<u>Lead</u> ( $\text{mg}/\text{kg}$ )	
TK Pit #1	06/05/97	2.5	554	29,700	4,750	24,180	59,184	2,040	NA	
TK Pit #2	06/05/97	2.5	628	20,100	2,070	11,370	34,168	3,880	NA	
E. Wall #1	06/05/97	8.5	<20	<20	371	<20	371	1,990	NA	
E. Wall #2	06/05/97	8.5	1,120	18,700	3,000	9,310	32,130	442	NA	
N. Wall #1	06/05/97	8.5	12,400	81,500	13,800	53,000	160,700	5,340	NA	
N. Wall #2	06/05/97	8.5	1,750	14,300	2,990	4,150	23,190	2,350	NA	
N. Wall #3	06/05/97	8.5	1,200	9,870	6,380	29,200	46,650	1,560	NA	
N. Wall #4	06/05/97	8.5	7,790	45,600	19,500	103,800	176,690	5,190	14.7	
W. Wall #1	06/05/97	8.5	5,630	36,700	16,000	79,100	137,430	2,740	NA	
W. Wall #2	06/05/97	8.5	7,120	34,600	18,500	107,300	167,520	2,430	NA	
S. Wall #1	06/05/97	8.5	28.2	1,610	2,330	7,100	11,068	2,580	NA	
S. Wall #2	06/05/97	8.5	<20	<20	<20	<20	<20	450	NA	
S. Wall #3	06/05/97	8.5	<20	1,160	391	438	1,989	2,040	NA	
S. Wall #4	06/05/97	8.5	<20	661	1,870	1,172	3,703	3,340	NA	
D.I. W. End	06/04/97	9	<20	<20	<20	<20	<20	1,010	NA	
	06/04/97	1.5	448	57,100	4,870	25,400	87,818	4,260	NA	
D. I. Middle	06/04/97	1.5	<20	23.2	48.3	<20	71.5	1,960	NA	
D.I. E. End	06/04/97	1.5	<20	291	1,950	1,422	3,663	2,610	NA	
Pump #1	06/05/97	2.5	<20	<20	60.9	<20	60.9	9,180	NA	
Pump #2	06/05/97	2.5	<20	<20	636	<20	636	5,480	NA	
Pump #3	06/05/97	8.5	<20	<20	76.2	<20	76.2	1,210	NA	
		1.5	<20	<20	2,000	<20	2,000	3,450	NA	
P.C. #1	06/04/97	3	<20	<20	<20	<20	<20	35.6	NA	

-- = not applicable

1 of 2

01890

Table 1

**Soil Sample Analyses  
City of Laredo  
Airport Fuel Farm Facility**

Laredo, Texas

LPST #95021

<u>Sample ID</u>	<u>Date</u>	<u>Depth</u> (ft.bgs)	<u>Benzene</u> ( $\mu\text{g}/\text{kg}$ )	<u>Toluene</u> ( $\mu\text{g}/\text{kg}$ )	<u>benzene</u> ( $\mu\text{g}/\text{kg}$ )	<u>Xylenes</u> ( $\mu\text{g}/\text{kg}$ )	<u>BTEX</u> ( $\mu\text{g}/\text{kg}$ )	<u>TPH</u> ( $\text{mg}/\text{kg}$ )	<u>Lead</u> ( $\text{mg}/\text{kg}$ )
P.C. #2	06/06/97	3	<20	<20	<20	<20	<20	36.4	NA
P.C. #3	06/06/97	3	<20	<20	<20	<20	<20	23.7	NA
P.C. #4	06/06/97	3	<20	<20	<20	<20	<20	17.5	NA
P.C. #5	06/06/97	3	<20	<20	<20	<20	<20	34	NA
STK #1	06/06/97	—	101	7,870	1,120	5,250	14,341	703	NA
STK #2	06/06/97	—	816	35,000	7,130	22,980	65,926	5,800	NA
STK #3	06/06/97	---	<20	250	28.4	986	1,264	364	NA
STK #4	06/06/97	---	<20	67.4	<20	830	897	522	NA
STK #5	06/06/97	---	<20	164	176	1,815	2,155	2,980	NA
STK #6	06/06/97	---	<20	27.2	<20	257	284	756	NA
STK #7	06/06/97	---	<20	2,820	585	2,990	6,395	2,910	NA
STK #8	06/06/97	---	807	25,200	3,420	17,160	46,587	2,170	NA
STK #9	06/06/97	---	<20	192	273	1,295	1,760	2,690	NA
STK #10	06/06/97	---	<20	<20	<20	79.5	79.5	708	NA
STK #11	06/06/97	---	1,360	17,600	10,100	56,200	85,260	2,540	NA
STK #12	06/06/97	---	<20	<20	<20	358	358	335	NA
STK #13	06/06/97	---	<20	<20	<20	<20	<20	358	NA

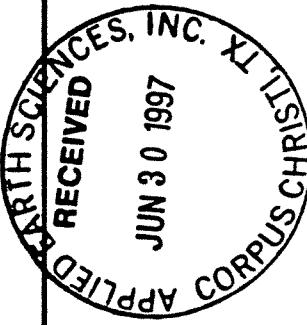
— = not applicable

**Laboratory Analtical Report**

01892

**ANALYSES**

Client: Applied Earth Sciences  
 Attn: Brent Balusek  
 Address: 4455 South Padre Island Dr. STE 28  
 Corpus Christi, TX 78411  
 Phone: (512) 854-9182 FAX: (512) 854-0734



**REPORT OF ANALYSIS**

Parameter	Result	Units	RQL <sup>5</sup>	Blank	Date	Method	Prec. <sup>2</sup>	Recov. <sup>3</sup>	CCV <sup>4</sup>	LCS <sup>4</sup>
Petroleum hydrocarbons	703	mg/Kg	10	<10	6/11/97	418.1	0.87	74.3	105.13	86.13
Volatile organics-BTEX/602	---				6/16/97	602 & 8020	--	--	--	--
Benzene	101	µg/Kg	20	<1	6/16/97	602 & 8020	3.8	76.8	95.4	99.3
Ethylbenzene	1120	µg/Kg	20	<1	6/16/97	602 & 8020	7.1	80.5	102.4	109.6
m,p-Xylenes	3210	µg/Kg	20	<1	6/16/97	602 & 8020	8.6	77	96.9	102.7
o-Xylene	2040	µg/Kg	20	<1	6/16/97	602 & 8020	7.4	78.7	100.4	105.7
Toluene	7870	µg/Kg	20	<1	6/16/97	602 & 8020	7.2	79.6	101.8	106.5

**QUALITY ASSURANCE DATA<sup>1</sup>**

Report #/Lab ID#: 204588	Report Date: 6/18/97
Project ID: 265-00001-01	
Sample Name: STK #1	
Sample Matrix: soil	
Date Received: 6/7/97	Time: 14:45:00
Date Sampled: 6/6/97	Time: 14:51:00

1. Quality assurance data reported is for the lot analyzed which included this sample.
2. Precision (Prec.) is the absolute value of the relative percent (%) difference between duplicate measurements.
3. Recovery (Recov.) is the percent (%) of analyte recovered from a spiked sample.
4. Calibration Verification (CCV) and Lab Control Sample (LCS) results expressed as the percent (%) recovery of analyte from a known standard.
5. Reporting Quantitation Limit. The Practical Quantitation Limit (PQL) or the Method Detection Limit (MDL) reported for the analyte.
6. Method numbers typically denote USEPA procedures. Less than ("<") values reflect nominal quantitation limits, adjusted for any required dilution.

Respectfully Submitted,  
*Hopkins Haden*  
 Hopkins Haden

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**QIULTRATE INC.**

**Client:** Applied Earth Sciences  
**Attn:** Brent Balusek  
**Address:** 4455 South Padre Island Dr. STE 28  
Corpus Christi, TX 78411  
**Phone:** (512) 854-9182 **FAX:**(512) 854-0734

Report #/Lab ID#:204588	Report Date:6/18/97
Project ID: 265-00001-01	
Sample Name: STK #1	
Sample Matrix: soil	
Date Received:06/07/97	Time: 14:45:00
Date Sampled: 6/6/97	Time: 14:51:00

**Surrogate Recoveries**

Surrogate Compound	Method	Recovery	Recovery Limits
Chlorobenzene-d5	602 & 8020	97.3	80-120

**Applied Earth Sciences**

Client: Applied Earth Sciences  
 Attn: Brent Balusek  
 Address: 4455 South Padre Island Dr. STE 28  
 Corpus Christi, TX 78411  
 Phone: (512) 854-9182 FAX: (512) 854-0734

**REPORT OF ANALYSIS**

Parameter	Result	Units	RQL <sup>5</sup>	Blank	Date	Method	Prec. <sup>2</sup>	Recov. <sup>3</sup>	CCV <sup>4</sup>	LCS <sup>4</sup>
Petroleum hydrocarbons	5800	mg/Kg	500	<10	6/11/97	418.1	0.87	74.13	105.13	86.13
Volatile organics-BTEX/602	---				6/16/97	602 & 8020				
Benzene	816	µg/Kg	100	<1	6/16/97	602 & 8020	3.8	76.8	95.4	99.3
Ethylbenzene	7130	µg/Kg	100	<1	6/16/97	602 & 8020	7.1	80.5	102.4	109.6
m,p-Xylenes	14800	µg/Kg	100	<1	6/16/97	602 & 8020	8.6	77	96.9	102.7
o-Xylene	8180	µg/Kg	100	<1	6/16/97	602 & 8020	7.4	78.7	100.4	105.7
Toluene	35000	µg/Kg	100	<1	6/16/97	602 & 8020	7.2	79.6	101.8	106.5

**QUALITY ASSURANCE DATA<sup>1</sup>**

Report #/Lab ID#: 204589	Report Date: 6/18/97
Project ID: 265-00001-01	
Sample Name: STK #2	
Sample Matrix: soil	
Date Received: 6/7/97	Time: 14:45:00
Date Sampled: 6/6/97	Time: 15:01:00

1. Quality assurance data reported is for the lot analyzed which included this sample.
2. Precision (Prec.) is the absolute value of the relative percent (%) difference between duplicate measurements.
3. Recovery (Recov.) is the percent (%) of analyte recovered from a spiked sample.
4. Calibration Verification (CCV) and Lab Control Sample (LCS) results expressed as the percent (%) recovery of analyte from a known standard.
5. Reporting Quantitation Limit. The Practical Quantitation Limit (PQL) or the Method Detection Limit (MDL) reported for the analyte.
6. Method numbers typically denote USEPA procedures. Less than ("<") values reflect nominal quantitation limits, adjusted for any required dilution.

*Hopkins Haden*  
Hopkins Haden

**QULUS INC.**

Client:	Applied Earth Sciences
Attn:	Brent Balusek
Address:	4455 South Padre Island Dr. STE 28 Corpus Christi, TX 78411
Phone:	(512) 854-9182 FAX:(512) 854-0734

Report #/Lab ID#:	204589	Report Date:	6/18/97
Project ID:	265-00001-01		
Sample Name:	STK #2		
Sample Matrix:	soil		
Date Received:	06/07/97	Time:	14:45:00
Date Sampled:	6/6/97	Time:	15:01:00

**Surrogate Recoveries**

Surrogate Compound	Method	Recovery	Recovery Limits
Chlorobenzene-d5	602 & 8020	103	80-120

**Quality Sciences Inc.**

21 rich , Su 90, n, 1 78/4  
& 9320 Up River Road, Corpus Christi, TX 78409  
(512) 444-5896 • FAX (512) 447-4766

Client: Applied Earth Sciences  
Attn: Brent Balusek  
Address: 4455 South Padre Island Dr. STE 28  
Corpus Christi, TX 78411  
Phone: (512) 854-9182 FAX: (512) 854-0734

**REPORT OF ANALYSIS**

Parameter	Result	Units	RQL <sup>5</sup>	Blank	Date	Method	Prec. <sup>2</sup>	Recov. <sup>3</sup>	CCV <sup>4</sup>	LCS <sup>4</sup>
Petroleum hydrocarbons	364	mg/Kg	10	<10	6/11/97	418.1	0.87	74.13	105.13	86.13
Volatile organics-BTEX/602	---				6/13/97	602 & 8020				
Benzene	<20	µg/Kg	20	<1	6/13/97	602 & 8020	6.2	69.5	100	101.6
Ethylbenzene	28.4	µg/Kg	20	<1	6/13/97	602 & 8020	5.1	77.2	103.1	108
m,p-Xylenes	593	µg/Kg	20	<1	6/13/97	602 & 8020	7.2	73.1	100.7	100.1
o-Xylene	393	µg/Kg	20	<1	6/13/97	602 & 8020	6.7	75.9	104.2	105
Toluene	250	µg/Kg	20	<1	6/13/97	602 & 8020	7.3	74.9	105.2	101.9

**QUALITY ASSURANCE DATA<sup>1</sup>**

Report #/Lab ID#:204590	Report Date:6/16/97
Project ID: 265-00001-01	
Sample Name: STK #3	
Sample Matrix: soil	
Date Received: 5/7/97	Time: 14:45:00
Date Sampled: 6/6/97	Time: 15:08:00

1. Quality assurance data reported is for the lot analyzed which included this sample.
2. Precision (Prec.) is the absolute value of the relative percent (%) difference between duplicate measurements.
3. Recovery (Recov.) is the percent (%) of analyte recovered from a spiked sample.
4. Calibration Verification (CCV) and Lab Control Sample (LCS) results expressed as the percent (%) recovery of analyte from a known standard.
5. Reporting Quantitation Limit (PQL) or the Method Detection Limit (MDL) reported for the analyte.
6. Method numbers typically denote USEPA procedures. Less than ("<") values reflect nominal quantitation limits, adjusted for any required dilution.

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Respectfully Submitted,

*Markins Haden*  
Markins Haden  
Hopkins Haden

# Q1Lr5Y2

Client: Applied Earth Sciences  
Attn: Brent Balusck  
Address: 4455 South Padre Island Dr. STE 28  
Corpus Christi, TX 78411  
Phone: (512) 854-9182 FAX: (512) 854-0734

Report #/Lab ID#:204590 Report Date:6/16/97  
Project ID:265-00001-01  
Sample Name:STK #3  
Sample Matrix:soil  
Date Received:06/07/97 Time: 14:45:00  
Date Sampled: 6/6/97 Time: 15:08:00

## Surrogate Recoveries

Surrogate	Compound	Method	Recovery	Recovery Limits
	Chlorobenzene-d5	602 & 8020	94.5	80-120

# Applied Earth Sciences

Client: Applied Earth Sciences  
Attn: Brent Balusek  
Address: 4455 South Padre Island Dr. STE 28  
Corpus Christi, TX 78411  
Phone: (512) 854-9182 FAX: (512) 854-0734

## REPORT OF ANALYSIS

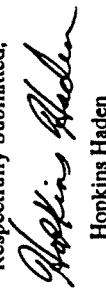
Parameter	Result	Units	RQL <sup>5</sup>	Blank	Date	Method	Prec. <sup>2</sup>	Recov. <sup>3</sup>	CCV <sup>4</sup>	LCS <sup>6</sup>
Petroleum hydrocarbons	522	mg/Kg	10	<10	6/11/97	418.1	0.87	74.13	105.13	86.13
Volatile organics-BTEX/602	---				6/13/97	602 & 8020				
Benzene	<20	µg/Kg	20	<1	6/13/97	602 & 8020	6.2	69.5	100	101.6
Ethylbenzene	<20	µg/Kg	20	<1	6/13/97	602 & 8020	5.1	77.2	103.1	108
m,p-Xylenes	505	µg/Kg	20	<1	6/13/97	602 & 8020	7.2	73.1	100.7	100.1
o-Xylene	325	µg/Kg	20	<1	6/13/97	602 & 8020	6.7	75.9	104.2	105
Toluene	67.4	µg/Kg	20	<1	6/13/97	602 & 8020	7.3	74.9	105.2	101.9

## QUALITY ASSURANCE DATA<sup>1</sup>

Report #/Lab ID#:204591	Report Date:6/16/97
Project ID:265-00001-01	
Sample Name:STK #4	
Sample Matrix:soil	
Date Received:6/7/97	Time: 14:45:00
Date Sampled: 6/6/97	Time: 15:12:00

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Respectfully Submitted,

  
Hopkins Hadden  
Hopkins Hadden

1. Quality assurance data reported is for the lot analyzed which included this sample.
2. Precision (Prec.) is the absolute value of the relative percent (%) difference between duplicate measurements.
3. Recovery (Recov.) is the percent (%) of analyte recovered from a spiked sample.
4. Calibration Verification (CCV) and Lab Control Sample (LCS) results expressed as the percent (%) recovery of analyte from a known standard.
5. Reporting Quantitation Limit. The Practical Quantitation Limit (PQL) or the Method Detection Limit (MDL) reported for the analyte.
6. Method numbers typically denote USEPA procedures. Less than ("<") values reflect nominal quantitation limits, adjusted for any required dilution.

**QJL, Inc.**

<b>Client:</b> Applied Earth Sciences
Attn: Brent Balusek
<b>Address:</b> 4455 South Padre Island Dr. STE 28
Corpus Christi, TX 78411
<b>Phone:</b> (512) 854-9182 <b>FAX:</b> (512) 854-0734

<b>Report #/Lab ID#:</b> 204591	<b>Report Date:</b> 6/16/97
<b>Project ID:</b> 265-00001-01	
<b>Sample Name:</b> STK #4	
<b>Sample Matrix:</b> soil	
<b>Date Received:</b> 06/07/97	<b>Time:</b> 14:45:00
<b>Date Sampled:</b> 6/6/97	<b>Time:</b> 15:12:00

**Surrogate Recoveries**

Surrogate	Compound	Method	Recovery	Recovery Limits
	Chlorobenzene-d5	602 & 8020	93.2	80-120

Anal. Sci. Inc.

rich, St. 90, n, 1  
& 9320 Up River Road, Corpus Christi, TX 78409  
(512) 444-5896 • FAX (512) 447-4766

Client: Applied Earth Sciences  
Attn: Brent Balusek  
Address: 4455 South Padre Island Dr. STE 28  
Corpus Christi, TX 78411  
Phone: (512) 854-9182 FAX: (512) 854-0734

REPORT OF ANALYSIS

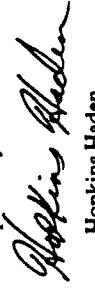
Parameter	Result	Units	RQL <sup>5</sup>	Blank	Date	Method	Prec. <sup>2</sup>	Recov. <sup>3</sup>	CCV <sup>4</sup>	LCS <sup>4</sup>
Petroleum hydrocarbons	2980	mg/Kg	500	<10	6/11/97	418.1	4.48	111.2	106.48	83.43
Volatile organics-BTEX/602	---				6/13/97	602 & 8020	--	--	--	--
Benzene	<20	µg/Kg	20	<1	6/13/97	602 & 8020	6.2	69.5	100	101.6
Ethylbenzene	176	µg/Kg	20	<1	6/13/97	602 & 8020	5.1	77.2	103.1	108
m,p-Xylenes	1060	µg/Kg	20	<1	6/13/97	602 & 8020	7.2	73.1	100.7	100.1
o-Xylene	755	µg/Kg	20	<1	6/13/97	602 & 8020	6.7	75.9	104.2	105
Toluene	164	µg/Kg	20	<1	6/13/97	602 & 8020	7.3	74.9	105.2	101.9

QUALITY ASSURANCE DATA<sup>1</sup>

Report #/Lab ID#:	204592	Report Date:	6/16/97
Project ID:	265-00001-01		
Sample Name:	STK #5		
Sample Matrix:	soil		
Date Received:	6/7/97		
Date Sampled:	6/6/97		
		Time: 14:45:00	
		Time: 15:20:00	

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Respectfully Submitted,

  
Hopkins Hadden

Hopkins Hadden

1. Quality assurance data reported is for the lot analyzed which included this sample.
2. Precision (Prec.) is the absolute value of the relative percent (%) difference between duplicate measurements.
3. Recovery (Recov.) is the percent (%) of analyte recovered from a spiked sample.
4. Calibration Verification (CCV) and Lab Control Sample (LCS) results expressed as the percent (%) recovery of analyte from a known standard.
5. Reporting Quantitation Limit. The Practical Quantitation Limit (PQL) or the Method Detection Limit (MDL) reported for the analyte.
6. Method numbers typically denote USEPA procedures. Less than ("<") values reflect nominal quantitation limits, adjusted for any required dilution.

QJL · Sinc.

Client: Applied Earth Sciences  
Attn: Brent Balusek  
Address: 4455 South Padre Island Dr. STE 28  
Corpus Christi, TX 78411  
Phone: (512) 854-9182 FAX: (512) 854-0734

Report #/Lab ID#: 204592	Report Date: 6/16/97
Project ID: 265-00001-01	
Sample Name: STK #5	
Sample Matrix: soil	
Date Received: 06/07/97	Time: 14:45:00
Date Sampled: 6/6/97	Time: 15:20:00

**Surrogate Recoveries**

Surrogate Compound	Method	Recovery	Recovery Limits
Chlorobenzene-d5	602 & 8020	95.7	80-120

**AnalySys**  
INC.

\*221 Friedrich Lane, Suite 190, Austin, TX 78744  
& 9320 Up River Road, Corpus Christi, TX 78409  
(512) 444-5896 • FAX (512) 447-4766

Client: Applied Earth Sciences  
Attn: Brent Balusek  
Address: 4455 South Padre Island Dr. STE 28  
Corpus Christi, TX 78411  
Phone: (512) 854-9182 FAX:(512) 854-0734

#### REPORT OF ANALYSIS

Parameter	Result	Units	RQL <sup>5</sup>	Blank	Date	Method	Prec. <sup>2</sup>	Recov. <sup>3</sup>	CCV <sup>4</sup>	LCS <sup>4</sup>
Petroleum hydrocarbons	756	mg/Kg	10	<10	6/11/97	418.1	4.48	111.2	106.48	83.43
Volatile organics-BTEX/602	---				6/13/97	602 & 8020				
Benzene	<20	µg/Kg	20	<1	6/13/97	602 & 8020	6.2	69.5	100	101.6
Ethylbenzene	<20	µg/Kg	20	<1	6/13/97	602 & 8020	5.1	77.2	103.1	108
m,p-Xylenes	137	µg/Kg	20	<1	6/13/97	602 & 8020	7.2	73.1	100.7	100.1
o-Xylene	120	µg/Kg	20	<1	6/13/97	602 & 8020	6.7	75.9	104.2	105
Toluene	27.2	µg/Kg	20	<1	6/13/97	602 & 8020	7.3	74.9	105.2	101.9

#### QUALITY ASSURANCE DATA<sup>1</sup>

1. Quality assurance data reported is for the lot analyzed which included this sample.
2. Precision (Prec.) is the absolute value of the relative percent (%) difference between duplicate measurements.
3. Recovery (Recov.) is the percent (%) of analyte recovered from a spiked sample.
4. Calibration Verification (CCV) and Lab Control Sample (LCS) results expressed as the percent (%) recovery of analyte from a known standard.
5. Reporting Quantitation Limit. The Practical Quantitation Limit (PQL) or the Method Detection Limit (MDL) reported for the analyte.
6. Method numbers typically denote USEPA procedures. Less than ("<") values reflect nominal quantitation limits, adjusted for any required dilution.

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Respectfully Submitted,

*Hopkins Hadden*  
Hopkins Hadden

**D.L.L. • S<sup>+</sup> inc.**

Client:	Applied Earth Sciences
Attn:	Brent Balusek
Address:	4455 South Padre Island Dr. STE 28 Corpus Christi, TX 78411
Phone:	(512) 854-9182 FAX:(512) 854-0734

Report #/Lab ID#:204593	Report Date:6/16/97
Project ID: 265-00001-01	
Sample Name: STK #6	
Sample Matrix: soil	
Date Received: 06/07/97	Time: 14:45:00
Date Sampled: 6/6/97	Time: 15:28:00

**Surrogate Recoveries**

Surrogate Compound	Method	Recovery	Recovery Limits
Chlorobenzene-d5	602 & 8020	94.5	80-120

**DL : 5 inc.**

111 111 111 111 111 111  
111 111 111 111 111 111  
111 111 111 111 111 111  
**& 9320 Up River Road, Corpus Christi, TX 78409**  
**(512) 44-5896 • FAX (512) 447-3766**

**Client:** Applied Earth Sciences  
**Attn:** Brent Balusek  
**Address:** 4455 South Padre Island Dr. STE 28  
 Corpus Christi, TX 78411  
**Phone:** (512) 854-9182 **FAX:** (512) 854-0734

#### REPORT OF ANALYSIS

Parameter	Result	Units	RQL <sup>5</sup>	Blank	Date	Method	Prec. <sup>2</sup>	Recov. <sup>3</sup>	CCV <sup>4</sup>	LCS <sup>6</sup>
Petroleum hydrocarbons	2910	mg/Kg	500	<10	6/11/97	418.1	4.48	111.2	106.48	83.43
Volatile organics-BTEX/602	---				6/13/97	602 & 8020	--	--	--	--
Benzene	<20	µg/Kg	20	<1	6/13/97	602 & 8020	6.2	69.5	100	101.6
Ethylbenzene	585	µg/Kg	20	<1	6/13/97	602 & 8020	5.1	77.2	103.1	108
m,p-Xylenes	1800	µg/Kg	20	<1	6/13/97	602 & 8020	7.2	73.1	100.7	100.1
o-Xylene	1190	µg/Kg	20	<1	6/13/97	602 & 8020	6.7	75.9	104.2	105
Toluene	2820	µg/Kg	20	<1	6/13/97	602 & 8020	7.3	74.9	105.2	101.9

#### QUALITY ASSURANCE DATA<sup>1</sup>

1. Quality assurance data reported is for the lot analyzed which included this sample.
2. Precision (Prec.) is the absolute value of the relative percent (%) difference between duplicate measurements.
3. Recovery (Recov.) is the percent (%) of analytic recovered from a spiked sample.
4. Calibration Verification (CCV) and Lab Control Sample (LCS) results expressed as the percent (%) recovery of analyte from a known standard.
5. Reporting Quantitation Limit. The Practical Quantitation Limit (PQL) or the Method Detection Limit (MDL) reported for the analyte.
6. Method numbers typically denote USEPA procedures. Less than ("<") values reflect nominal quantitation limits, adjusted for any required dilution.

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Hopkins Hadden

**Q'ntLrS'r<sup>2</sup>**  
Inc.

**Client:** Applied Earth Sciences  
**Attn:** Brent Balusek  
**Address:** 4455 South Padre Island Dr. STE 28  
Corpus Christi, TX 78411  
**Phone:** (512) 854-9182 **FAX:** (512) 854-0734

Report #/Lab ID#: 204594	Report Date: 6/16/97
Project ID: 265-00001-01	
Sample Name: STK #7	
Sample Matrix: soil	
Date Received: 06/07/97	Time: 14:45:00
Date Sampled: 6/6/97	Time: 15:34:00

**Surrogate Recoveries**

Surrogate Compound	Method	Recovery	Recovery Limits
Chlorobenzene-d5	602 & 8020	97.1	80-120

**Applied Earth Sciences**  
Inc.

Client: Applied Earth Sciences  
Attn: Brent Balusek  
Address: 4455 South Padre Island Dr. STE 28  
Corpus Christi,  
TX 78411  
Phone: (512) 854-9182 FAX: (512) 854-0734

**REPORT OF ANALYSIS**

Parameter	Result	Units	RQL <sup>5</sup>	Blank	Date	Method	Prec. <sup>2</sup>	Recov. <sup>3</sup>	CCV <sup>4</sup>	LCS <sup>4</sup>
Petroleum hydrocarbons	2170	mg/Kg	500	<10	6/11/97	418.1	4.48	1111.2	106.48	83.43
Volatile organics-BTEX/602	---				6/16/97	602 & 8020				
Benzene	807	µg/Kg	100	<1	6/16/97	602 & 8020	3.8	76.8	95.4	99.3
Ethylbenzene	3420	µg/Kg	100	<1	6/16/97	602 & 8020	7.1	80.5	102.4	109.6
m,p-Xylenes	10300	µg/Kg	100	<1	6/16/97	602 & 8020	8.6	77	96.9	102.7
o-Xylene	6860	µg/Kg	100	<1	6/16/97	602 & 8020	7.4	78.7	100.4	105.7
Toluene	25200	µg/Kg	100	<1	6/16/97	602 & 8020	7.2	79.6	101.8	106.5

**QUALITY ASSURANCE DATA<sup>1</sup>**

Report #/Lab ID#:204595	Report Date:6/18/97
Project ID:265-00001-01	
Sample Name:STK #8	
Sample Matrix:soil	
Date Received:6/7/97	Time: 14:45:00
Date Sampled: 6/6/97	Time: 15:39:00

1. Quality assurance data reported is for the lot analyzed which included this sample.
2. Precision (Prec.) is the absolute value of the relative percent (%) difference between duplicate measurements.
3. Recovery (Recov.) is the percent (%) of analyte recovered from a spiked sample.
4. Calibration Verification (CCV) and Lab Control Sample (LCS) results expressed as the percent (%) recovery of analyte from a known standard.
5. Reporting Quantitation Limit. The Practical Quantitation Limit (PQL) or the Method Detection Limit (MDL) reported for the analyte.
6. Method numbers typically denote USEPA procedures. Less than ("<") values reflect nominal quantitation limits, adjusted for any required dilution

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*Hopkins Haden*  
Hopkins Haden

**APPLIED SCIENCES**  
INC.

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**Attn:** Brent Balusek  
**Address:** 4455 South Padre Island Dr. STE 28  
Corpus Christi, TX 78411  
**Phone:** (512) 854-9182 **FAX:** (512) 854-0734

**Report #/Lab ID#:** 204595   **Report Date:** 6/18/97  
**Project ID:** 265-00001-01  
**Sample Name:** STK #8  
**Sample Matrix:** soil  
**Date Received:** 06/07/97   **Time:** 14:45:00  
**Date Sampled:** 6/6/97   **Time:** 15:39:00

**Surrogate Recoveries**

Surrogate	Compound	Method	Recovery	Recovery Limits
	Chlorobenzene-d5	602 & 8020	106	80-120

**Analytical Services Inc.**

**Client:** Applied Earth Sciences  
**Attn:** Brent Balusek  
**Address:** 4455 South Padre Island Dr. STE 28  
Corpus Christi, TX 78411  
**Phone:** (512) 854-9182 **FAX:** (512) 854-0734

**REPORT OF ANALYSIS**

Parameter	Result	Units	RQL <sup>5</sup>	Blank	Date	Method	Prec. <sup>2</sup>	Recov. <sup>3</sup>	CCV <sup>4</sup>	LCS <sup>4</sup>
Petroleum hydrocarbons	2690	mg/Kg	500	<10	6/11/97	418.1	4.48	111.2	106.48	83.43
Volatile organics-BTEX/602	---				6/13/97	602 & 8020				
Benzene	<20	µg/Kg	20	<1	6/13/97	602 & 8020	6.2	69.5	100	101.6
Ethylbenzene	273	µg/Kg	20	<1	6/13/97	602 & 8020	5.1	77.2	103.1	108
m,p-Xylenes	811	µg/Kg	20	<1	6/13/97	602 & 8020	7.2	73.1	100.7	100.1
o-Xylene	484	µg/Kg	20	<1	6/13/97	602 & 8020	6.7	75.9	104.2	105
Toluene	192	µg/Kg	20	<1	6/13/97	602 & 8020	7.3	74.9	105.2	101.9

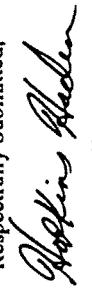
**QUALITY ASSURANCE DATA<sup>1</sup>**

Report #/Lab ID#:204596	Report Date:6/16/97
Project ID: 265-00001-01	
Sample Name: STK #9	
Sample Matrix: soil	
Date Received: 6/7/97	Time: 14:45:00
Date Sampled: 6/6/97	Time: 15:42:00

1. Quality assurance data reported is for the lot analyzed which included this sample.
2. Precision (Prec.) is the absolute value of the relative percent (%) difference between duplicate measurements.
3. Recovery (Recov.) is the percent (%) of analyte recovered from a spiked sample.
4. Calibration Verification (CCV) and Lab Control Sample (LCS) results expressed as the percent (%) recovery of analyte from a known standard.
5. Reporting Quantitation Limit. The Practical Quantitation Limit (PQL) or the Method Detection Limit (MDL) reported for the analyte.
6. Method numbers typically denote USEPA procedures. Less than ("<") values reflect nominal quantitation limits, adjusted for any required dilution.

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Hopkins Haden

Hopkins Haden

# Quality Control

Client:	Applied Earth Sciences
Attn:	Brent Balusek
Address:	4455 South Padre Island Dr. STE 28 Corpus Christi, TX 78411
Phone:	(512) 854-9182 FAX: (512) 854-0734

Report #/Lab ID#:204596	Report Date:6/16/97
Project ID:265-00001-01	
Sample Name:STK #9	
Sample Matrix:soil	
Date Received:06/07/97	Time:14:45:00
Date Sampled: 6/6/97	Time: 15:42:00

## Surrogate Recoveries

Surrogate Compound	Method	Recovery	Recovery Limits
Chlorobenzene-d5	602 & 8020	95.1	80-120

**Q uality Systems Inc.**

:21 rich , Su 90, n, I /8/4  
 & 9320 Up River Road, Corpus Christi, TX 78409  
 (512) 444-5896 • FAX (512) 447-4766

<b>Client:</b> Applied Earth Sciences
<b>Attn:</b> Brent Balusek
<b>Address:</b> 4455 South Padre Island Dr. STE 28
Corpus Christi, TX 78411
<b>Phone:</b> (512) 854-9182 <b>FAX:</b> (512) 854-0734

#### REPORT OF ANALYSIS

Parameter	Result	Units	RQL <sup>5</sup>	Blank	Date	Method	Prec. <sup>2</sup>	Recov. <sup>3</sup>	CCV <sup>4</sup>	LCS <sup>4</sup>
Petroleum hydrocarbons	708	mg/Kg	10	<10	6/11/97	418.1	4.48	111.2	106.48	83.43
Volatile organics-BTEX/602	---				6/13/97	602 & 8020	...	...	...	...
Benzene	<20	µg/Kg	20	<1	6/13/97	602 & 8020	6.2	69.5	100	101.6
Ethylbenzene	<20	µg/Kg	20	<1	6/13/97	602 & 8020	5.1	77.2	103.1	108
m,p-Xylenes	79.5	µg/Kg	20	<1	6/13/97	602 & 8020	7.2	73.1	100.7	100.1
o-Xylene	<20	µg/Kg	20	<1	6/13/97	602 & 8020	6.7	75.9	104.2	105
Toluene	<20	µg/Kg	20	<1	6/13/97	602 & 8020	7.3	74.9	105.2	101.9

#### QUALITY ASSURANCE DATA<sup>1</sup>

Report #/Lab ID#:204597	Report Date: 6/16/97
Project ID: 265-00001-01	
Sample Name: STK #10	
Sample Matrix: soil	
Date Received: 6/7/97	Time: 14:45:00
Date Sampled: 6/6/97	Time: 15:45:00

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Respectfully Submitted,

Hopkins Hadden

1. Quality assurance data reported is for the lot analyzed which included this sample.
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3. Recovery (Recov.) is the percent (%) of analyte recovered from a spiked sample.
4. Calibration Verification (CCV) and Lab Control Sample (LCS) results expressed as the percent (%) recovery of analyte from a known standard.
5. Reporting Quantitation Limit. The Practical Quantitation Limit (PQL) or the Method Detection Limit (MDL) reported for the analyte.
6. Method numbers typically denote USEPA procedures. Less than ("<") values reflect nominal quantitation limits, adjusted for any required dilution.

**DLT** Inc.

**Client:** Applied Earth Sciences  
**Attn:** Brent Balusek  
**Address:** 4455 South Padre Island Dr. STE 28  
Corpus Christi, TX 78411  
**Phone:** (512) 854-9182 **FAX:**(512) 854-0734

Report #/Lab ID#:204597	Report Date:6/16/97
Project ID: 265-00001-01	
Sample Name: STK #10	
Sample Matrix: soil	
Date Received:06/07/97	Time: 14:45:00
Date Sampled: 6/6/97	Time: 15:45:00

**Surrogate Recoveries**

Surrogate	Compound	Method	Recovery	Recovery Limits
	Chlorobenzene-d5	602 & 8020	97.3	80-120

**Hopkins Haden**

21 | 1st , Su 90, n, T 1874  
& 9320 Up River Road, Corpus Christi, TX 78409  
(512) 444-5896 • FAX (512) 447-4766

Client:	Applied Earth Sciences
Attn:	Brent Balusek
Address:	4455 South Padre Island Dr. STE 28
	Corpus Christi, TX 78411
Phone:	(512) 854-9182 FAX: (512) 854-0734

#### REPORT OF ANALYSIS

Parameter	Result	Units	RQL <sup>5</sup>	Blank	Date	Method	Prec. <sup>2</sup>	Recov. <sup>3</sup>	CCV <sup>4</sup>	LCS <sup>6</sup>
Petroleum hydrocarbons	2540	mg/Kg	500	<10	6/11/97	418.1	4.48	111.2	106.48	83.43
Volatile organics-BTEX/602	--				6/16/97	602 & 8020	--	--	--	--
Benzene	1360	µg/Kg	100	<1	6/16/97	602 & 8020	3.8	76.8	95.4	99.3
Ethylbenzene	10100	µg/Kg	100	<1	6/16/97	602 & 8020	7.1	80.5	102.4	109.6
m,p-Xylenes	37800	µg/Kg	100	<1	6/16/97	602 & 8020	8.6	77	96.9	102.7
o-Xylene	18400	µg/Kg	100	<1	6/16/97	602 & 8020	7.4	78.7	100.4	105.7
Toluene	17600	µg/Kg	100	<1	6/16/97	602 & 8020	7.2	79.6	101.8	106.5

#### QUALITY ASSURANCE DATA<sup>1</sup>

Report #/Lab ID#:204598	Report Date:6/18/97
Project ID: 265-00001-01	
Sample Name:STK #11	
Sample Matrix: soil	
Date Received: 6/7/97	Time: 14 hours 45
Date Sampled: 6/6/97	Time: 15:47:00

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3. Recovery (Recov.) is the percent (%) of analyte recovered from a spiked sample.
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5. Reporting Quantitation Limit. The Practical Quantitation Limit (PQL) or the Method Detection Limit (MDL) reported for the analyte.
6. Method numbers typically denote USEPA procedures. Less than ("<") values reflect nominal quantitation limits, adjusted for any required dilution.

# Quality Services

**Client:** Applied Earth Sciences  
**Attn:** Brent Balusek  
**Address:** 4455 South Padre Island Dr. STE 28  
Corpus Christi,  
TX 78411  
**Phone:** (512) 854-9182 **FAX:** (512) 854-0734

**Report #/Lab ID#: 204598** **Report Date: 6/18/97**  
**Project ID: 265-00001-01**  
**Sample Name: STK #11**  
**Sample Matrix: soil**  
**Date Received: 06/07/97** **Time: 14:45:00**  
**Date Sampled: 6/6/97** **Time: 15:47:00**

## Surrogate Recoveries

Surrogate Compound	Method	Recovery	Recovery Limits
Chlorobenzene-d5	602 & 8020	104	80-120

**Quality Solutions Inc.**

21 Rich Su 90, 1-874  
& 9320 Up River Road, Corpus Christi, TX 78409  
(512) 444-5896 • FAX (512) 447-4766

Client: Applied Earth Sciences  
Attn: Brent Balusek  
Address: 4455 South Padre Island Dr. STE 28  
Corpus Christi, TX 78411  
Phone: (512) 854-9182 FAX: (512) 854-0734

#### REPORT OF ANALYSIS

Parameter	Result	Units	RQL <sup>5</sup>	Blank	Date	Method	Prec. <sup>2</sup>	Recov. <sup>3</sup>	CCV <sup>4</sup>	LCS <sup>6</sup>
Petroleum hydrocarbons	335	mg/Kg	10	<10	6/11/97	418.1	4.48	111.2	106.48	83.43
Volatile organics-BTEX/602	---				6/13/97	602 & 8020				
Benzene	<20	µg/Kg	20	<1	6/13/97	602 & 8020	6.2	69.5	100	101.6
Ethylbenzene	<20	µg/Kg	20	<1	6/13/97	602 & 8020	5.1	77.2	103.1	108
m,p-Xylenes	158	µg/Kg	20	<1	6/13/97	602 & 8020	7.2	73.1	100.7	100.1
o-Xylene	200	µg/Kg	20	<1	6/13/97	602 & 8020	6.7	75.9	104.2	105
Toluene	<20	µg/Kg	20	<1	6/13/97	602 & 8020	7.3	74.9	105.2	101.9

#### QUALITY ASSURANCE DATA<sup>1</sup>

Report #/Lab ID#: 204599	Report Date: 6/16/97
Project ID: 265-00001-01	
Sample Name: STK #12	
Sample Matrix: soil	
Date Received: 6/7/97	Time: 14:45:00
Date Sampled: 6/6/97	Time: 15:51:00

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Hopkins Hadden

Page# : 1

01916

1. Quality assurance data reported is for the lot analyzed which included this sample.
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3. Recovery (Recov.) is the percent (%) of analyte recovered from a spiked sample.
4. Calibration Verification (CCV) and Lab Control Sample (LCS) results expressed as the percent (%) recovery of analyte from a known standard.
5. Reporting Quantitation Limit. The Practical Quantitation Limit (PQL) or the Method Detection Limit (MDL) reported for the analyte.
6. Method numbers typically denote USEPA procedures. Less than ("<") values reflect nominal quantitation limits, adjusted for any required dilution.

*CJL*: *SL*: *5inc.*

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Attn:	Brent Balusek
Address:	4455 South Padre Island Dr. STE 28 Corpus Christi, TX 78411
Phone:	(512) 854-9182 FAX: (512) 854-0734

Report #/Lab ID#:	204599	Report Date:	6/16/97
Project ID:	265-00001-01		
Sample Name:	STK #12		
Sample Matrix:	soil		
Date Received:	06/07/97	Time:	14:45:00
Date Sampled:	6/6/97	Time:	15:51:00

**Surrogate Recoveries**

Surrogate Compound	Method	Recovery	Recovery Limits
Chlorobenzene-d5	602 & 8020	93.6	80-120

**Client:** Applied Earth Sciences  
**Attn:** Brent Balusek  
**Address:** 4455 South Padre Island Dr. STE 28  
 Corpus Christi, TX 78411  
**Phone:** (512) 854-9182 **FAX:** (512) 854-0734

#### REPORT OF ANALYSIS

Parameter	Result	Units	RQL <sup>5</sup>	Blank	Date	Method	Prec. <sup>2</sup>	Recov. <sup>3</sup>	CCV <sup>4</sup>	LCS <sup>6</sup>
Petroleum hydrocarbons	358	mg/Kg	10	<10	6/11/97	418.1	4.48	111.2	106.48	83.43
Volatile organics-BTEX/602	---				6/13/97	602 & 8020				
Benzene	<20	µg/Kg	20	<1	6/13/97	602 & 8020	6.2	69.5	100	101.6
Ethylbenzene	<20	µg/Kg	20	<1	6/13/97	602 & 8020	5.1	77.2	103.1	108
m,p-Xylenes	<20	µg/Kg	20	<1	6/13/97	602 & 8020	7.2	73.1	100.7	100.1
o-Xylene	<20	µg/Kg	20	<1	6/13/97	602 & 8020	6.7	75.9	104.2	105
Toluene	<20	µg/Kg	20	<1	6/13/97	602 & 8020	7.3	74.9	105.2	101.9

#### QUALITY ASSURANCE DATA<sup>1</sup>

Report #/Lab ID#: 204600	Report Date: 6/16/97
Project ID: 265-00001-01	
Sample Name: STK #13	
Sample Matrix: soil	
Date Received: 6/7/97	Time: 14:45:00
Date Sampled: 6/6/97	Time: 15:57:00

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Respectfully Submitted,

Hopkins Hadden  
 Hopkins Hadden

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2. Precision (Prec.) is the absolute value of the relative percent (%) difference between duplicate measurements.
3. Recovery (Recov.) is the percent (%) of analyte recovered from a spiked sample.
4. Calibration Verification (CCV) and Lab Control Sample (LCS) results expressed as the percent (%) recovery of analyte from a known standard.
5. Reporting Quantitation Limit. The Practical Quantitation Limit (PQL) or the Method Detection Limit (MDL) reported for the analyte.
6. Method numbers typically denote USEPA procedures. Less than ("<") values reflect nominal quantitation limits, adjusted for any required dilution.

# Applied Earth Sciences

Client: Applied Earth Sciences  
Attn: Bret Balusek  
Address: 4455 South Padre Island Dr. STE 28  
Corpus Christi, TX 78411  
Phone: (512) 854-9182 FAX: (512) 854-0734

Report #/Lab ID#: 204600 Report Date: 6/16/97  
Project ID: 265-00001-01  
Sample Name: STK #13  
Sample Matrix: soil  
Date Received: 06/07/97 Time: 14:45:00  
Date Sampled: 6/6/97 Time: 15:57:00

## Surrogate Recoveries

Surrogate	Compound	Method	Recovery	Recovery Limits
	Chlorobenzene-d5	602 & 8020	93.9	80-120

**DL, SH, Hopkins Haden**

221 Rich Ln,  
9320 Up River Road, Corpus Christi, TX 78409  
(512) 444-5896 • FAX (512) 447-4766

Client: Applied Earth Sciences  
Attn: Brent Balusek  
Address: 4455 South Padre Island Dr. STE 28  
Corpus Christi, TX 78411  
Phone: (512) 854-9182 FAX: (512) 854-0734

#### REPORT OF ANALYSIS

Parameter	Result	Units	RQL <sup>5</sup>	Blank	Date	Method	Prec. <sup>2</sup>	Recov. <sup>3</sup>	CCV <sup>4</sup>	LCS <sup>6</sup>
Petroleum hydrocarbons	4260	mg/Kg	500	<10	6/11/97	418.1	4.48	111.2	106.48	83.43
Volatile organics-BTEX/602	---				6/12/97	602 & 8020	--	--	--	--
Benzene	448	µg/Kg	200	<1	6/12/97	602 & 8020	1	74.8	95	99.2
Ethylbenzene	4870	µg/Kg	200	<1	6/12/97	602 & 8020	0.2	77.2	100.9	112.2
m,p-Xylenes	17300	µg/Kg	200	<1	6/12/97	602 & 8020	2	76	95.8	103.9
o-Xylene	8100	µg/Kg	200	<1	6/12/97	602 & 8020	3.2	74.9	96.8	110.6
Toluene	57100	µg/Kg	200	<1	6/12/97	602 & 8020	0.6	76.7	97.2	105.5

#### QUALITY ASSURANCE DATA<sup>1</sup>

Report #/Lab ID#: 204601 Report Date: 6/18/97  
Project ID: 265-00001-01  
Sample Name: "D.I. W. End 18"""  
Sample Matrix: soil  
Date Received: 6/7/97 Time: 14:45:00  
Date Sampled: 6/4/97 Time: 16:26:00

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Respectfully Submitted,

*Hopkins Haden*  
Hopkins Haden

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6. Method numbers typically denote USEPA procedures. Less than ("<") values reflect nominal quantitation limits, adjusted for any required dilution.

*D*, *DL*, *S*, *nC*.

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**Attn:** Brent Balusek  
**Address:** 4455 South Padre Island Dr. STE 28  
Corpus Christi, TX 78411  
**Phone:** (512) 854-9182 **FAX:** (512) 854-0734

**Report #/Lab ID#:** 204601 **Report Date:** 6/18/97  
**Project ID:** 265-00001-01  
**Sample Name:** "D.J. W. End 18"""  
**Sample Matrix:** soil  
**Date Received:** 06/07/97 **Time:** 14:45:00  
**Date Sampled:** 6/4/97 **Time:** 16:26:00

**Surrogate Recoveries**

Surrogate Compound	Method	Recovery	Recovery Limits
Chlorobenzene-d5	602 & 8020	102	80-120

**Hopkins Haden**

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 Attn: Brent Balusek  
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 Corpus Christi, TX 78411  
 Phone: (512) 854-9182 FAX: (512) 854-0734

**REPORT OF ANALYSIS**

Parameter	Result	Units	RQL <sup>5</sup>	Blank	Date	Method	Prec. <sup>2</sup>	Recov. <sup>3</sup>	CCV <sup>4</sup>	LCS <sup>4</sup>
Petroleum hydrocarbons	1010	mg/Kg	10	<10	6/11/97	418.1	4.48	111.2	106.48	83.43
Volatile organics-BTEX/602	---				6/12/97	602 & 8020	--	--	--	--
Benzene	<20	µg/Kg	20	<1	6/12/97	602 & 8020	1	74.8	95	99.2
Ethylbenzene	<20	µg/Kg	20	<1	6/12/97	602 & 8020	0.2	77.2	100.9	112.2
m,p-Xylenes	<20	µg/Kg	20	<1	6/12/97	602 & 8020	2	76	95.8	103.9
o-Xylene	<20	µg/Kg	20	<1	6/12/97	602 & 8020	3.2	74.9	96.8	110.6
Toluene	<20	µg/Kg	20	<1	6/12/97	602 & 8020	0.6	76.7	97.2	105.5

**QUALITY ASSURANCE DATA<sup>1</sup>**

Report #/Lab ID#:204602	Report Date:6/18/97
Project ID:265-00001-01	
Sample Name:"D.I. W. End 9""	
Sample Matrix:soil	
Date Received:6/7/97	Time: 14:45:00
Date Sampled: 6/4/97	Time: 16:43:00

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*Hopkins Haden*

Hopkins Haden

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6. Method numbers typically denote USEPA procedures. Less than ("<") values reflect nominal quantitation limits, adjusted for any required dilution.

*Grind* • *Surveillance*

Client: Applied Earth Sciences  
Attn: Brent Balusek  
Address: 4455 South Padre Island Dr. STE 28  
Corpus Christi, TX 78411  
Phone: (512) 854-9182 FAX: (512) 854-0734

Report #/Lab ID#:204602 Report Date:6/18/97  
Project ID: 265-00001-01  
Sample Name: "D.I. W. End 9"""  
Sample Matrix: soil  
Date Received:06/07/97 Time: 14:45:00  
Date Sampled: 6/4/97 Time: 16:43:00

Surrogate Recoveries

Surrogate Compound	Method	Recovery	Recovery Limits
Chlorobenzene-d5	602 & 8020	65.8	80-120

*Hopkins Hadden*

Client: Applied Earth Sciences  
 Attn: Brent Balusck  
 Address: 4455 South Padre Island Dr. STE 28  
 Corpus Christi, TX 78411  
 Phone: (512) 854-9182 FAX: (512) 854-0734

#### REPORT OF ANALYSIS

Parameter	Result	Units	RQL <sup>5</sup>	Blank	Date	Method	Prec. <sup>2</sup>	Recov. <sup>3</sup>	CCV <sup>4</sup>	LCS <sup>4</sup>
Petroleum hydrocarbons	1960	mg/Kg	10	<10	6/11/97	418.1	4.48	111.2	106.48	83.43
Volatile organics-BTEX/602	---				6/12/97	602 & 8020	-	-	-	-
Benzene	<20	µg/Kg	20	<1	6/12/97	602 & 8020	1	74.8	95	99.2
Ethylbenzene	48.3	µg/Kg	20	<1	6/12/97	602 & 8020	0.2	77.2	100.9	112.2
m,p-Xylenes	<20	µg/Kg	20	<1	6/12/97	602 & 8020	2	76	95.8	103.9
o-Xylene	<20	µg/Kg	20	<1	6/12/97	602 & 8020	3.2	74.9	96.8	110.6
Toluene	23.2	µg/Kg	20	<1	6/12/97	602 & 8020	0.6	76.7	97.2	105.5

#### QUALITY ASSURANCE DATA<sup>1</sup>

Report #/Lab ID#:	204603	Report Date:	6/18/97
Project ID:	265-00001-01		
Sample Name:	"D.I. Mid 18"		
Sample Matrix:	soil		
Date Received:	6/7/97	Time:	14:45:00
Date Sampled:	6/4/97	Time:	17:03:00

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*Hopkins Hadden*

Hopkins Hadden

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6. Method numbers typically denote USEPA procedures. Less than ("<") values reflect nominal quantitation limits, adjusted for any required dilution.

# CHROMS INC.

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Address: 4455 South Padre Island Dr. STE 28  
Corpus Christi,  
TX 78411  
Phone: (512) 854-9182 FAX: (512) 854-0734

Report #/Lab ID#:204603	Report Date:6/18/97
Project ID:265-00001-01	
Sample Name: "D.J. Mid 18"""	
Sample Matrix:soil	
Date Received:06/07/97	Time: 14:45:00
Date Sampled: 6/4/97	Time: 17:03:00

## Surrogate Recoveries

Surrogate Compound	Method	Recovery	Recovery Limits
Chlorobenzene-d5	602 & 8020	67.1	80-120

**Analytical Services Inc.**

4421 Park Lane  
9320 Up River Road, Corpus Christi, TX 78409  
(512) 444-5896 • FAX (512) 447-4766

**Client:** Applied Earth Sciences  
**Attn:** Brent Balusek  
**Address:** 4455 South Padre Island Dr. STE 28  
Corpus Christi, TX 78411  
**Phone:** (512) 854-9182 **FAX:** (512) 854-0734

#### REPORT OF ANALYSIS

#### QUALITY ASSURANCE DATA<sup>1</sup>

Parameter	Result	Units	RQL <sup>5</sup>	Blank	Date	Method	Prec. <sup>2</sup>	Recov. <sup>3</sup>	CCV <sup>4</sup>	LCS <sup>4</sup>
Petroleum hydrocarbons	2610	mg/Kg	500	<10	6/11/97	418.1	4.48	111.2	106.48	83.43
Volatile organics-BTEX/602	---				6/12/97	602 & 8020	-	-	-	-
Benzene	<20	µg/Kg	20	<1	6/12/97	602 & 8020	1	74.8	95	99.2
Ethylbenzene	1950	µg/Kg	20	<1	6/12/97	602 & 8020	0.2	77.2	100.9	112.2
m,p-Xylenes	657	µg/Kg	20	<1	6/12/97	602 & 8020	2	76	95.8	103.9
o-Xylene	765	µg/Kg	20	<1	6/12/97	602 & 8020	3.2	74.9	96.8	110.6
Toluene	291	µg/Kg	20	<1	6/12/97	602 & 8020	0.6	76.7	97.2	105.5

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*Hopkins Haden*  
Hopkins Haden

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**CHLORINATED  
ORGANIC COMPOUNDS**

**Client:** Applied Earth Sciences  
**Attn:** Brent Balusek  
**Address:** 4455 South Padre Island Dr. STE 28  
Corpus Christi, TX 78411  
**Phone:** (512) 854-9182 **FAX:** (512) 854-0734

Report #/Lab ID#:204623	Report Date:6/18/97
Project ID:265-00001-01	
Sample Name:P.C. #1	
Sample Matrix:soil	
Date Received:06/07/97	Time: 14:45:00
Date Sampled: 6/4/97	Time: 18:28:00

**Surrogate Recoveries**

Surrogate Compound	Method	Recovery	Recovery Limits
Chlorobenzene-d5	602 & 8020	95.2	80-120

DLI-57mC.

Client: Applied Earth Sciences  
Attn: Brent Balusek  
Address: 4455 South Padre Island Dr. STE 28  
Corpus Christi, TX 78411  
Phone: (512) 854-9182 FAX: (512) 854-0734

**REPORT OF ANALYSIS**

Parameter	Result	Units	RQL <sup>5</sup>	Blank	Date	Method
Petroleum hydrocarbons	36.4	mg/Kg	10	<10	6/11/97	418.1
Volatile organics-BTEX/602	---				6/13/97	602 & 8020
Benzene	<20	µg/Kg	20	<1	6/13/97	602 & 8020
Ethylbenzene	<20	µg/Kg	20	<1	6/13/97	602 & 8020
m,p-Xylenes	<20	µg/Kg	20	<1	6/13/97	602 & 8020
o-Xylene	<20	µg/Kg	20	<1	6/13/97	602 & 8020
Toluene	<20	µg/Kg	20	<1	6/13/97	602 & 8020

**QUALITY ASSURANCE DATA<sup>1</sup>**

	Prec. <sup>2</sup>	Recov. <sup>3</sup>	CCV <sup>4</sup>	LCS <sup>4</sup>
	0.87	74.13	105.13	86.13

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# QIOLYSY INC.

Client:	Applied Earth Sciences
Attn:	Brent Balusek
Address:	4455 South Padre Island Dr. STE 28 Corpus Christi, TX 78411
Phone:	(512) 854-9182 FAX: (512) 854-0734

Report #/Lab ID#:	204604	Report Date:	6/18/97
Project ID:	265-00001-01		
Sample Name:	"D.I. E. End 18"		
Sample Matrix:	soil		
Date Received:	06/07/97	Time:	14:45:00
Date Sampled:	6/4/97	Time:	17:23:00

## Surrogate Recoveries

Surrogate Compound	Method	Recovery	Recovery Limits
Chlorobenzene-d5	602 & 8020	68.9	80-120

*Hopkins Haden*

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 Attn: Brent Balusck  
 Address: 4455 South Padre Island Dr. STE 28  
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#### REPORT OF ANALYSIS

Parameter	Result	Units	RQL <sup>5</sup>	Blank	Date	Method	Prec. <sup>2</sup>	Recov. <sup>3</sup>	CCV <sup>4</sup>	LCS <sup>6</sup>
Petroleum hydrocarbons	3450	mg/Kg	500	<10	6/11/97	418.1	4.48	111.2	106.48	83.43
Volatile organics-BTEX/602	---				6/13/97	602 & 8020				
Benzene	<20	µg/Kg	20	<1	6/13/97	602 & 8020	6.2	69.5	100	101.6
Ethylbenzene	2000	µg/Kg	20	<1	6/13/97	602 & 8020	5.1	77.2	103.1	108
m,p-Xylenes	<20	µg/Kg	20	<1	6/13/97	602 & 8020	7.2	73.1	100.7	100.1
o-Xylene	<20	µg/Kg	20	<1	6/13/97	602 & 8020	6.7	75.9	104.2	105
Toluene	<20	µg/Kg	20	<1	6/13/97	602 & 8020	7.3	74.9	105.2	101.9

#### QUALITY ASSURANCE DATA<sup>1</sup>

Report #/Lab ID#: 204605	Report Date: 6/18/97
Project ID: 265-00001-01	
Sample Name: Pump #3 18"	
Sample Matrix: soil	
Date Received: 6/7/97	Time: 14:45:00
Date Sampled: 6/5/97	Time: 19:39:00

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# CHIQUIS INC.

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Address:	4455 South Padre Island Dr. STE 28 Corpus Christi, TX 78411
Phone:	(512) 854-9182 FAX: (512) 854-0734

Report #/Lab ID#:	204605	Report Date:	6/18/97
Project ID:	265-00001-01		
Sample Name:	Pump #3 18"		
Sample Matrix:	soil		
Date Received:	06/07/97	Time:	14:45:00
Date Sampled:	6/5/97	Time:	19:39:00

## Surrogate Recoveries

Surrogate Compound	Method	Recovery	Recovery Limits
Chlorobenzene-d5	602 & 8020	102	80-120

**DL, S, Inc.**

**Client:** Applied Earth Sciences  
**Attn:** Brent Balusek  
**Address:** 4455 South Padre Island Dr. STE 28  
 Corpus Christi, TX 78411  
**Phone:** (512) 854-9182 **FAX:**(512) 854-0734

**REPORT OF ANALYSIS**

Parameter	Result	Units	RQL <sup>5</sup>	Blank	Date	Method	Prec. <sup>2</sup>	Recov. <sup>3</sup>	CCV <sup>4</sup>	LCS <sup>4</sup>
Petroleum hydrocarbons	1210	mg/Kg	10	<10	6/11/97	418.1	4.48	111.2	106.48	83.43
Volatile organics-BTEX/602	---				6/12/97	602 & 8020				
Benzene	<20	µg/Kg	20	<1	6/12/97	602 & 8020	1	74.6	95	99.2
Ethylbenzene	76.2	µg/Kg	20	<1	6/12/97	602 & 8020	0.2	77.2	100.9	112.2
m,p-Xylenes	<20	µg/Kg	20	<1	6/12/97	602 & 8020	2	76	95.8	103.9
o-Xylene	<20	µg/Kg	20	<1	6/12/97	602 & 8020	3.2	74.9	96.8	110.6
Toluene	<20	µg/Kg	20	<1	6/12/97	602 & 8020	0.6	76.7	97.2	105.5

**QUALITY ASSURANCE DATA<sup>1</sup>**

Report #/Lab ID#: 204606	Report Date: 6/18/97
Project ID: 265-00001-01	
Sample Name: Pump #3 8.5'	
Sample Matrix: soil	
Date Received: 6/7/97	Time: 14:45:00
Date Sampled: 6/5/97	Time: 19:55:00

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*DJ-L-S inc.*

Client:	Applied Earth Sciences
Attn:	Brent Balusek
Address:	4455 South Padre Island Dr. STE 28 Corpus Christi, TX 78411
Phone:	(512) 854-9182 FAX: (512) 854-0734

**Surrogate Recoveries**

Surrogate	Compound	Method	Recovery	Recovery Limits
	Chlorobenzene-d5	602 & 8020	94.2	80-120

Report #/Lab ID#:204606	Report Date:6/18/97
Project ID:265-00001-01	
Sample Name:Pump #3 8.5'	
Sample Matrix:soil	
Date Received:06/07/97	Time: 14:45:00
Date Sampled: 6/5/97	Time: 19:55:00

**CH<sub>3</sub>Cl<sub>2</sub> S Tr<sup>2</sup>**

221 rich e, Si 190, In, 7874  
& 9320 Up River Road, Corpus Christi, TX 78409  
(512) 443 5896 • FAX (512) 447-4766

<b>Client:</b> Applied Earth Sciences
Attn: Brent Balusck
<b>Address:</b> 4455 South Padre Island Dr. STE 28
Corpus Christi, TX 78411
<b>Phone:</b> (512) 854-9182 <b>FAX:</b> (512) 854-0734

#### REPORT OF ANALYSIS

Parameter	Result	Units	RQL <sup>5</sup>	Blank	Date	Method	Prec. <sup>2</sup>	Recov. <sup>3</sup>	CCV <sup>4</sup>	LCS <sup>4</sup>
Petroleum hydrocarbons	5480	mg/Kg	500	<10	6/11/97	418.1	4.48	111.2	106.48	83.43
Volatile organics-BTEX/602	---				6/12/97	602 & 8020	--	--	--	--
Benzene	<20	µg/Kg	20	<1	6/12/97	602 & 8020	1	74.8	95	99.2
Ethylbenzene	636	µg/Kg	20	<1	6/12/97	602 & 8020	0.2	77.2	100.9	112.2
m,p-Xylenes	<20	µg/Kg	20	<1	6/12/97	602 & 8020	2	76	95.8	103.9
o-Xylene	<20	µg/Kg	20	<1	6/12/97	602 & 8020	3.2	74.9	96.8	110.6
Toluene	<20	µg/Kg	20	<1	6/12/97	602 & 8020	0.6	76.7	97.2	105.5

#### QUALITY ASSURANCE DATA<sup>1</sup>

Report #/Lab ID#: 204607	Report Date: 6/18/97
Project ID: 265-00001-01	
Sample Name: Pump #2	
Sample Matrix: soil	
Date Received: 6/7/97	Time: 14:45:00
Date Sampled: 6/5/97	Time: 19:44:00

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Respectfully Submitted,

Hopkins Haden

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4. Calibration Verification (CCV) and Lab Control Sample (LCS) results expressed as the percent (%) recovery of analyte from a known standard.
5. Reporting Quantitation Limit. The Practical Quantitation Limit (PQL) or the Method Detection Limit (MDL) reported for the analyte.
6. Method numbers typically denote USEPA procedures. Less than ("<") values reflect nominal quantitation limits, adjusted for any required dilution.

CHLORINATED

Client: Applied Earth Sciences  
Attn: Brent Balusek  
Address: 4455 South Padre Island Dr. STE 28  
Corpus Christi, TX 78411  
Phone: (512) 854-9182 FAX: (512) 854-0734

Report #/Lab ID#:	204607	Report Date:	6/18/97
Project ID:	265-00001-01		
Sample Name:	Pump #2		
Sample Matrix:	soil		
Date Received:	06/07/97	Time:	14:45:00
Date Sampled:	6/5/97	Time:	19:44:00

Surrogate Recoveries

Surrogate Compound	Method	Recovery	Recovery Limits
Chlorobenzene-d5	602 & 8020	100	80-120

CLL-5inC.

'21 Rich St. 90, .....n, 1.. 7874.  
& 9320 UP River Road, Corpus Christi, TX 78409  
(512) 444-5896 • FAX (512) 447-4766

Client: Applied Earth Sciences  
Attn: Brent Balusek  
Address: 4455 South Padre Island Dr. STE 28  
Corpus Christi, TX 78411  
Phone: (512) 854-9182 FAX: (512) 854-0734

REPORT OF ANALYSIS

Parameter	Result	Units	RQL <sup>5</sup>	Blank	Date	Method	Prec. <sup>2</sup>	Recov. <sup>3</sup>	CCV <sup>4</sup>	LCS <sup>4</sup>
Petroleum hydrocarbons	9180	mg/Kg	500	<10	6/11/97	418.1	4.48	111.2	106.48	83.43
Volatile organics-BTEX/602	---				6/12/97	602 & 8020	-	-	-	-
Benzene	<20	µg/Kg	20	<1	6/12/97	602 & 8020	1	74.8	95	99.2
Ethylbenzene	60.9	µg/Kg	20	<1	6/12/97	602 & 8020	0.2	77.2	100.9	112.2
m,p-Xylenes	<20	µg/Kg	20	<1	6/12/97	602 & 8020	2	76	95.8	103.9
o-Xylene	<20	µg/Kg	20	<1	6/12/97	602 & 8020	3.2	74.9	96.8	110.6
Toluene	<20	µg/Kg	20	<1	6/12/97	602 & 8020	0.6	76.7	97.2	105.5

QUALITY ASSURANCE DATA<sup>1</sup>

Report #/Lab ID#:204608	Report Date: 6/18/97
Project ID: 265-00001-01	
Sample Name: Pump #1	
Sample Matrix: soil	
Date Received: 6/7/97	Time: 14:45:00
Date Sampled: 6/5/97	Time: 19:47:00

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Respectfully Submitted,

  
Hopkins Haden

Hopkins Haden

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6. Method numbers typically denote USEPA procedures. Less than ("<") values reflect nominal quantitation limits, adjusted for any required dilution.

**Q1, QL, S<sup>1</sup> inc.**

<b>Client:</b>	Applied Earth Sciences
<b>Attn:</b>	Brent Balusek
<b>Address:</b>	4455 South Padre Island Dr. STE 28 Corpus Christi, TX 78411
<b>Phone:</b>	(512) 854-9182 FAX: (512) 854-0734

<b>Report #/Lab ID#:</b> 204608	<b>Report Date:</b> 6/18/97
<b>Project ID:</b> 265-00001-01	
<b>Sample Name:</b> Pump #1	
<b>Sample Matrix:</b> soil	
<b>Date Received:</b> 06/07/97	<b>Time:</b> 14:45:00
<b>Date Sampled:</b> 6/5/97	<b>Time:</b> 19:47:00

**Surrogate Recoveries**

Surrogate	Compound	Method	Recovery	Recovery Limits
	Chlorobenzene-d5	602 & 8020	97.7	80-120

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& 9320 Up River Road, Corpus Christi, TX 78409  
(512) 444-5896 • FAX (512) 447-4766

FRIL : Sinc.

Client: Applied Earth Sciences  
Attn: Brent Balusek  
Address: 4455 South Padre Island Dr. STE 28  
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TX 78411  
Phone: (512) 854-9182 FAX: (512) 854-0734

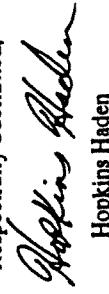
#### REPORT OF ANALYSIS

Parameter	Result	Units	RQL <sup>5</sup>	Blank	Date	Method	Prec. <sup>2</sup>	Recov. <sup>3</sup>	CCV <sup>4</sup>	LCS <sup>4</sup>
Petroleum hydrocarbons	2580	mg/Kg	500	<10	6/11/97	418.1	4.48	111.2	106.48	83.43
Volatile organics-BTEX/602	---				6/13/97	602 & 8020	--	--	--	--
Benzene	28.2	µg/Kg	20	<1	6/13/97	602 & 8020	1	74.8	95	99.2
Ethylbenzene	2330	µg/Kg	20	<1	6/13/97	602 & 8020	0.2	77.2	100.9	112.2
m,p-Xylenes	4660	µg/Kg	20	<1	6/13/97	602 & 8020	2	76	95.8	103.9
o-Xylene	2440	µg/Kg	20	<1	6/13/97	602 & 8020	3.2	74.9	96.8	110.6
Toluene	1610	µg/Kg	20	<1	6/13/97	602 & 8020	0.6	76.7	97.2	105.5

#### QUALITY ASSURANCE DATA<sup>1</sup>

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6. Method numbers typically denote USEPA procedures. Less than ("<") values reflect nominal quantitation limits, adjusted for any required dilution.

**DLI • DLI • DLI**

<b>Client:</b>	Applied Earth Sciences
<b>Attn:</b>	Brent Balusck
<b>Address:</b>	4455 South Padre Island Dr. STE 28 Corpus Christi, TX 78411
<b>Phone:</b>	(512) 854-9182 FAX: (512) 854-0734

**Surrogate Recoveries**

Surrogate Compound	Method	Recovery	Recovery Limits
Chlorobenzene-d5	602 & 8020	95.8	80-120

Report #/Lab ID#:204609	Report Date:6/18/97
Project ID:265-00001-01	
Sample Name: S. Wall #1	
Sample Matrix: soil	
Date Received:06/07/97	Time: 14:45:00
Date Sampled: 6/5/97	Time: 19:03:00

**UL-517**

21 Ich Sui '0, Ich T.  
8744  
& 9320 Up River Road, Corpus Christi, TX 78409  
(512) 444-5896 • FAX (512) 447-4766

Client:	Applied Earth Sciences
Attn:	Brent Bahusek
Address:	4455 South Padre Island Dr. STE 28 Corpus Christi, TX 78411
Phone:	(512) 854-9182 FAX:(512) 854-0734

#### REPORT OF ANALYSIS

Parameter	Result	Units	RQL <sup>5</sup>	Blank	Date	Method	Prec. <sup>2</sup>	Recov. <sup>3</sup>	CCV <sup>4</sup>	LCS <sup>6</sup>
Petroleum hydrocarbons	450	mg/Kg	10	<10	6/11/97	418.1	4.48	111.2	106.48	83.43
Volatile organics-BTEX/602	---				6/12/97	602 & 8020	-	-	-	-
Benzene	<20	µg/Kg	20	<1	6/12/97	602 & 8020	1	74.8	95	99.2
Ethylbenzene	<20	µg/Kg	20	<1	6/12/97	602 & 8020	0.2	77.2	100.9	112.2
m,p-Xylenes	<20	µg/Kg	20	<1	6/12/97	602 & 8020	2	76	95.8	103.9
o-Xylene	<20	µg/Kg	20	<1	6/12/97	602 & 8020	3.2	74.9	96.8	110.6
Toluene	<20	µg/Kg	20	<1	6/12/97	602 & 8020	0.6	76.7	97.2	105.5

#### QUALITY ASSURANCE DATA<sup>1</sup>

Report #/Lab ID#:204610	Report Date: 6/18/97
Project ID: 265-00001-01	
Sample Name: S.Wall #2	
Sample Matrix: soil	
Date Received: 6/7/97	Time: 14:45:00
Date Sampled: 6/5/97	Time: 19:12:00

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4. Calibration Verification (CCV) and Lab Control Sample (LCS) results expressed as the percent (%) recovery of analyte from a known standard.
5. Reporting Quantitation Limit. The Practical Quantitation Limit (PQL) or the Method Detection Limit (MDL) reported for the analyte.
6. Method numbers typically denote USEPA procedures. Less than ("<") values reflect nominal quantitation limits, adjusted for any required dilution.

**QI - PI - QC**

**Client:** Applied Earth Sciences  
**Attn:** Brent Balusek  
**Address:** 4455 South Padre Island Dr. STE 28  
Corpus Christi, TX 78411  
**Phone:** (512) 854-9182 **FAX:** (512) 854-0734

**Report #/Lab ID#:204610 Report Date: 6/18/97**  
**Project ID:** 265-00001-01  
**Sample Name:** S. Wall #2  
**Sample Matrix:** soil  
**Date Received:** 06/07/97 **Time:** 14:45:00  
**Date Sampled:** 6/5/97 **Time:** 19:12:00

**Surrogate Recoveries**

Surrogate Compound	Method	Recovery	Recovery Limits
Chlorobenzene-d5	602 & 8020	98.5	80-120

**Hopkins Haden**

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& 9320 Up River Road, Corpus Christi, TX 78409  
(512) 444-5896 • FAX (512) 447-4766

Client:	Applied Earth Sciences
Attn:	Brent Balusek
Address:	4455 South Padre Island Dr. STE 28
	Corpus Christi, TX 78411
Phone:	(512) 854-9182 FAX:(512) 854-0734

#### REPORT OF ANALYSIS

#### QUALITY ASSURANCE DATA<sup>1</sup>

Parameter	Result	Units	RQL <sup>5</sup>	Blank	Date	Method	Prec. <sup>2</sup>	Recover. <sup>3</sup>	CCV <sup>4</sup>	LCS <sup>6</sup>
Petroleum hydrocarbons	2040	mg/Kg	500	<10	6/11/97	418.1	4.48	111.2	106.48	83.43
Volatile organics-BTEX/602	---				6/13/97	602 & 8020	--	--	--	
Benzene	<20	µg/Kg	20	<1	6/13/97	602 & 8020	1	74.8	95	99.2
Ethylbenzene	1160	µg/Kg	20	<1	6/13/97	602 & 8020	0.2	77.2	100.9	112.2
m,p-Xylenes	438	µg/Kg	20	<1	6/13/97	602 & 8020	2	76	95.8	103.9
o-Xylene	<20	µg/Kg	20	<1	6/13/97	602 & 8020	3.2	74.9	96.8	110.6
Toluene	391	µg/Kg	20	<1	6/13/97	602 & 8020	0.6	76.7	97.2	105.5

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Hopkins Haden  
Hopkins Haden

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**Surveillance Inc.**

**Client:** Applied Earth Sciences  
**Attn:** Brent Balusek  
**Address:** 4455 South Padre Island Dr. STE 28  
Corpus Christi, TX 78411  
**Phone:** (512) 854-9182 **FAX:** (512) 854-0734

**Report #/Lab ID#:204611 Report Date:6/18/97**

**Project ID:265-00001-01**  
**Sample Name: S. Wall #3**  
**Sample Matrix: soil**  
**Date Received:06/07/97 Time: 14:45:00**  
**Date Sampled: 6/5/97 Time: 19:21:00**

**Surrogate Recoveries**

<b>Surrogate Compound</b>	<b>Method</b>	<b>Recovery</b>	<b>Recovery Limits</b>
Chlorobenzene-d5	602 & 8020	96.6	80-120

**Client:** Applied Earth Sciences  
**Attn:** Brent Balusek  
**Address:** 4455 South Padre Island Dr. STE 28  
 Corpus Christi, TX 78411  
**Phone:** (512) 854-9182 **FAX:** (512) 854-0734

**REPORT OF ANALYSIS**

Parameter	Result	Units	RQL <sup>5</sup>	Blank	Date	Method	Prec. <sup>2</sup>	Recov. <sup>3</sup>	CCV <sup>4</sup>	LCS <sup>6</sup>
Petroleum hydrocarbons	3340	mg/Kg	500	<10	6/10/97	418.1	0.71	84.29	109.17	83.83
Volatile organics-BTEX/602	---				6/16/97	602 & 8020	--	--	--	--
Benzene	<20	µg/Kg	20	<1	6/16/97	602 & 8020	3.8	76.8	95.4	99.3
Ethylbenzene	1870	µg/Kg	20	<1	6/16/97	602 & 8020	7.1	80.5	102.4	109.6
m,p-Xylenes	691	µg/Kg	20	<1	6/16/97	602 & 8020	8.6	77	96.9	102.7
o-Xylene	481	µg/Kg	20	<1	6/16/97	602 & 8020	7.4	78.7	100.4	105.7
Toluene	661	µg/Kg	20	<1	6/16/97	602 & 8020	7.2	79.6	101.8	106.5

**QUALITY ASSURANCE DATA<sup>1</sup>**

Report #/Lab ID#: 204612	Report Date: 6/18/97
Project ID: 265-00001-01	
Sample Name: S. Wall #4	
Sample Matrix: soil	
Date Received: 6/7/97	Time: 14:45:00
Date Sampled: 6/5/97	Time: 19:27:00

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Hopkins Haden

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**DLT, Inc.**

**Client:** Applied Earth Sciences  
**Attn:** Brent Balusek  
**Address:** 4455 South Padre Island Dr. STE 28  
Corpus Christi, TX 78411  
**Phone:** (512) 854-9182 **FAX:** (512) 854-0734

**Report #/Lab ID#:204612 Report Date:6/18/97**  
**Project ID:265-00001-01**  
**Sample Name:S. Wall #4**  
**Sample Matrix:soil**  
**Date Received:06/07/97 Time: 14:45:00**  
**Date Sampled: 6/5/97 Time: 19:27:00**

**Surrogate Recoveries**

<b>Surrogate Compound</b>	<b>Method</b>	<b>Recovery</b>	<b>Recovery Limits</b>
Chlorobenzene-d5	602 & 8020	99.6	80-120

**Q-L-S Inc.**

Client: Applied Earth Sciences  
 Attn: Brent Balusek  
 Address: 4455 South Padre Island Dr. STE 28  
 Corpus Christi, TX 78411  
 Phone: (512) 854-9182 FAX: (512) 854-0734

#### REPORT OF ANALYSIS

Parameter	Result	Units	RQL <sup>5</sup>	Blank	Date	Method	Prec. <sup>2</sup>	Recov. <sup>3</sup>	CCV <sup>4</sup>	LCS <sup>4</sup>
Petroleum hydrocarbons	2040	mg/Kg	500	<10	6/10/97	418.1	0.71	84.29	109.17	83.83
Volatile organics-BTEX/602	---				6/16/97	602 & 8020	—	—	—	—
Benzene	554	µg/Kg	100	<1	6/16/97	602 & 8020	3.8	76.8	95.4	99.3
Ethylbenzene	4750	µg/Kg	100	<1	6/16/97	602 & 8020	7.1	80.5	102.4	109.6
m,p-Xylenes	16000	µg/Kg	100	<1	6/16/97	602 & 8020	8.6	77	96.9	102.7
o-Xylene	8180	µg/Kg	100	<1	6/16/97	602 & 8020	7.4	78.7	100.4	105.7
Toluene	29700	µg/Kg	100	<1	6/16/97	602 & 8020	7.2	79.6	101.8	106.5

#### QUALITY ASSURANCE DATA<sup>1</sup>

Report #/Lab ID#:204613	Report Date:6/18/97
Project ID: 265-00001-01	
Sample Name: TK Pit #1	
Sample Matrix: soil	
Date Received: 6/7/97	Time: 14:45:00
Date Sampled: 6/5/97	Time: 10:31:00

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**Q-Lab, Inc.**

**Client:** Applied Earth Sciences  
**Attn:** Brent Balusek  
**Address:** 4455 South Padre Island Dr. STE 28  
Corpus Christi, TX 78411  
**Phone:** (512) 854-9182 **FAX:** (512) 854-0734

<b>Report #/Lab ID#:</b> 204613	<b>Report Date:</b> 6/18/97
<b>Project ID:</b> 265-00001-01	
<b>Sample Name:</b> TK Pit #1	
<b>Sample Matrix:</b> soil	
<b>Date Received:</b> 06/07/97	<b>Time:</b> 14:45:00
<b>Date Sampled:</b> 6/5/97	<b>Time:</b> 10:31:00

**Surrogate Recoveries**

<b>Surrogate Compound</b>	<b>Method</b>	<b>Recovery</b>	<b>Recovery Limits</b>
Chlorobenzene-d5	602 & 8020	98	80-120

**DLI, INC.**

21 Ich ... Su... -20, .....  
& 9320 Up River Road, Corpus Christi, TX 78409  
(512) 444-5896 • FAX (512) 447-4766

Client:	Applied Earth Sciences
Attn:	Brent Balusick
Address:	4455 South Padre Island Dr. STE 28 Corpus Christi, TX 78411
Phone:	(512) 854-9182 FAX: (512) 854-0734

Report #/Lab ID# 204614 Report Date: 6/18/97

Project ID: 265-00001-01  
Sample Name: TK Pit #2  
Sample Matrix: soil  
Date Received: 6/7/97 Time: 14:45:0  
Date Sampled: 6/5/97 Time: 10:33:00

#### REPORT OF ANALYSIS

Parameter	Result	Units	RQL <sup>5</sup>	Blank	Date	Method	Prec. <sup>2</sup>	Recov. <sup>3</sup>	CCV <sup>4</sup>	LCS <sup>6</sup>
Petroleum hydrocarbons	3880	mg/Kg	500	<10	6/10/97	418.1	0.71	84.29	109.17	83.83
Volatile organics-BTEX/602	---				6/16/97	602 & 8020				
Benzene	628	µg/Kg	100	<1	6/16/97	602 & 8020	3.8	76.8	95.4	99.3
Ethylbenzene	2070	µg/Kg	100	<1	6/16/97	602 & 8020	7.1	80.5	102.4	109.6
m,p-Xylenes	7140	µg/Kg	100	<1	6/16/97	602 & 8020	8.6	77	96.9	102.7
o-Xylene	4230	µg/Kg	100	<1	6/16/97	602 & 8020	7.4	78.7	100.4	105.7
Toluene	20100	µg/Kg	100	<1	6/16/97	602 & 8020	7.2	79.6	101.8	106.5

#### QUALITY ASSURANCE DATA<sup>1</sup>

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DL, JL, S/mC.

<b>Client:</b>	Applied Earth Sciences
<b>Attn:</b>	Brent Balusek
<b>Address:</b>	4455 South Padre Island Dr. STE 28 Corpus Christi, TX 78411
<b>Phone:</b>	(512) 854-9182 FAX:(512) 854-0734

<b>Report #/Lab ID#:</b> 204614	<b>Report Date:</b> 6/18/97
<b>Project ID:</b> 265-00001-01	
<b>Sample Name:</b> TK Pit #2	
<b>Sample Matrix:</b> soil	
<b>Date Received:</b> 06/07/97	<b>Time:</b> 14:45:00
<b>Date Sampled:</b> 6/5/97	<b>Time:</b> 10:33:00

#### Surrogate Recoveries

Surrogate Compound	Method	Recovery	Recovery Limits
Chlorobenzene-d5	602 & 8020	101	80-120

**HL, LLC**

211 Ich Sun '90, T 8744  
8 & 9320 Up River Road, Corpus Christi, TX 78409  
(512) 444-5896 • FAX (512) 447-4766

**Client:** Applied Earth Sciences  
**Attn:** Brent Balusek  
**Address:** 4455 South Padre Island Dr. STE 28  
 Corpus Christi,  
 TX 78411  
**Phone:** (512) 854-9182 **FAX:** (512) 854-0734

#### REPORT OF ANALYSIS

Parameter	Result	Units	RQL <sup>5</sup>	Blank	Date	Method	Prec. <sup>2</sup>	Recov. <sup>3</sup>	CCV <sup>4</sup>	LCS <sup>4</sup>
Petroleum hydrocarbons	1990	mg/Kg	<10	6/10/97	418.1		0.71	84.29	109.17	83.83
Volatile organics-BTEX/602	---			6/13/97	602 & 8020					
Benzene	<20	µg/Kg	20	<1	6/13/97	602 & 8020	6.2	69.5	100	101.6
Ethylbenzene	371	µg/Kg	20	<1	6/13/97	602 & 8020	5.1	77.2	103.1	108
m,p-Xylenes	<20	µg/Kg	20	<1	6/13/97	602 & 8020	7.2	73.1	100.7	100.1
o-Xylene	<20	µg/Kg	20	<1	6/13/97	602 & 8020	6.7	75.9	104.2	105
Toluene	<20	µg/Kg	20	<1	6/13/97	602 & 8020	7.3	74.9	105.2	101.9

#### QUALITY ASSURANCE DATA<sup>1</sup>

Report #/Lab ID#:204615	Report Date:6/18/97
Project ID: 265-00001-01	
Sample Name: E. Wall #1	
Sample Matrix: soil	
Date Received: 6/7/97	Time: 14:45:00
Date Sampled: 6/5/97	Time: 17:53:00

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Respectfully Submitted,

  
Hopkins Haden

Hopkins Haden

1. Quality assurance data reported is for the lot analyzed which included this sample.
2. Precision (Prec.) is the absolute value of the relative percent (%) difference between duplicate measurements.
3. Recovery (Recov.) is the percent (%) of analyte recovered from a spiked sample.
4. Calibration Verification (CCV) and Lab Control Sample (LCS) results expressed as the percent (%) recovery of analyte from a known standard.
5. Reporting Quantitation Limit. The Practical Quantitation Limit (PQL) or the Method Detection Limit (MDL) reported for the analyte.
6. Method numbers typically denote USEPA procedures. Less than ("<") values reflect nominal quantitation limits, adjusted for any required dilution.

**Q'JLrS<sup>2</sup>/nC.**

<b>Client:</b>	Applied Earth Sciences
<b>Attn:</b>	Brent Balusek
<b>Address:</b>	4455 South Padre Island Dr. STE 28 Corpus Christi, TX 78411
<b>Phone:</b>	(512) 854-9182 FAX:(512) 854-0734

**Surrogate Recoveries**

Surrogate Compound	Method	Recovery	Recovery Limits
Chlorobenzene-d5	602 & 8020	71	80-120

<b>Report #/Lab ID#:</b> 204615 <b>Report Date:</b> 6/18/97
<b>Project ID:</b> 265-00001-01
<b>Sample Name:</b> E. Wall #1
<b>Sample Matrix:</b> soil
<b>Date Received:</b> 06/07/97 <b>Time:</b> 14:45:00
<b>Date Sampled:</b> 6/5/97 <b>Time:</b> 17:53:00

7L, 5in

& 9320 Up River Road, Corpus Christi, TX 78409  
(512) 444-5896 • FAX (512) 447-4766

Client: Applied Earth Sciences  
Attn: Brent Balusek  
Address: 4459 South Padre Island Dr. STE 28  
Corpus Christi, TX 78411  
Phone: (512) 854-9182 FAX:(512) 854-0734

#### REPORT OF ANALYSIS

##### Parameter

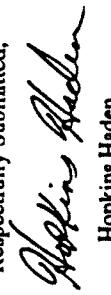
Parameter	Result	Units	RQL <sup>5</sup>	Blank	Date	Method	Prec. <sup>2</sup>	Recov. <sup>3</sup>	CCV <sup>4</sup>	LCS <sup>4</sup>
Petroleum hydrocarbons	442	mg/Kg	10	<10	6/11/97	418.1	0.87	74.13	105.13	86.13
Volatile organics-BTEX/602	---				6/16/97	602 & 8020	—	—	—	—
Benzene	1120	µg/Kg	100	<1	6/16/97	602 & 8020	3.8	76.8	95.4	99.3
Ethylbenzene	3000	µg/Kg	100	<1	6/16/97	602 & 8020	7.1	80.5	102.4	109.6
m,p-Xylenes	5770	µg/Kg	100	<1	6/16/97	602 & 8020	8.6	77	96.9	102.7
o-Xylene	3540	µg/Kg	100	<1	6/16/97	602 & 8020	7.4	78.7	100.4	105.7
Toluene	18700	µg/Kg	100	<1	6/16/97	602 & 8020	7.2	79.6	101.8	106.5

#### QUALITY ASSURANCE DATA

Report #/Lab ID#: 204616 Report Date: 6/18/97  
Project ID: 265-00001-01  
Sample Name: E. Wall #2  
Sample Matrix: soil  
Date Received: 6/7/97 Time: 14:45:00  
Date Sampled: 6/5/97 Time: 18:04:00

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Respectfully Submitted,

  
Hopkins Haden

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2. Precision (Prec.) is the absolute value of the relative percent (%) difference between duplicate measurements.
3. Recovery (Recov.) is the percent (%) of analyte recovered from a spiked sample.
4. Calibration Verification (CCV) and Lab Control Sample (LCS) results expressed as the percent (%) recovery of analyte from a known standard.
5. Reporting Quantitation Limit. The Practical Quantitation Limit (PQL) or the Method Detection Limit (MDL) reported for the analytic.
6. Method numbers typically denote USEPA procedures. Less than ("<") values reflect nominal quantitation limits, adjusted for any required dilution.

דילן סינס

**Client:** Applied Earth Sciences  
**Attn:** Brent Balusek  
**Address:** 4455 South Padre Island Dr. STE 28  
Corpus Christi, TX 78411  
**Phone:** (512) 854-9182 **FAX:** (512) 854-0734

Report #/Lab ID#:204616	Report Date:6/18/97
Project ID: 265-00001-01	
Sample Name: E. Wall #2	
Sample Matrix: soil	
Date Received:06/07/97	Time: 14:45:0
Date Sampled: 6/5/97	Time: 18:04:00

Surrogate Recoveries	Surrogate Compound	Method	Recovery	Recovery Limits
	Chlorobenzene-d5	602 & 8020	97.4	80-120

01953

**Client:** Applied Earth Sciences  
**Attn:** Brent Balusek  
**Address:** 4455 South Padre Island Dr. STE 28  
 Corpus Christi, TX 78411  
**Phone:** (512) 854-9182 **FAX:** (512) 854-0734

**REPORT OF ANALYSIS**

Parameter	Result	Units	RQL <sup>5</sup>	Blank	Date	Method	Prec. <sup>2</sup>	Recov. <sup>3</sup>	CCV <sup>4</sup>	LCS <sup>4</sup>
Petroleum hydrocarbons	5340	mg/Kg	<10	6/11/97	418.1		0.87	74.13	105.13	86.13
Volatile organics-BTEX/600	---			6/16/97	602 & 8020					
Benzene	12400	µg/Kg	500	<1	6/16/97	602 & 8020	3.8	76.8	95.4	99.3
Ethylbenzene	13800	µg/Kg	500	<1	6/16/97	602 & 8020	7.1	80.5	102.4	109.6
m,p-Xylenes	34000	µg/Kg	500	<1	6/16/97	602 & 8020	8.6	77	96.9	102.7
o-Xylene	19000	µg/Kg	500	<1	6/16/97	602 & 8020	7.4	78.7	100.4	105.7
Toluene	81500	µg/Kg	500	<1	6/16/97	602 & 8020	7.2	79.6	101.8	106.5

**QUALITY ASSURANCE DATA<sup>1</sup>**

Report #/Lab ID#:204617	Report Date: 6/18/97
Project ID: 265-00001-01	
Sample Name: N. Wall #1	
Sample Matrix: soil	
Date Received: 6/7/97	Time: 14:45:00
Date Sampled: 6/5/97	Time: 18:21:00

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Respectfully Submitted,

*Hopkins Haden*  
Hopkins Haden

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2. Precision (Prec.) is the absolute value of the relative percent (%) difference between duplicate measurements.
3. Recovery (Recov.) is the percent (%) of analyte recovered from a spiked sample.
4. Calibration Verification (CCV) and Lab Control Sample (LCS) results expressed as the percent (%) recovery of analyte from a known standard.
5. Reporting Quantitation Limit. The Practical Quantitation Limit (PQL) or the Method Detection Limit (MDL) reported for the analyte.
6. Method numbers typically denote USEPA procedures. '*<*' less than ('<') values reflect nominal quantitation limits, adjusted for any required dilution.

**QJL, Inc.**

**Client:** Applied Earth Sciences  
**Attn:** Brent Balusek  
**Address:** 4455 South Padre Island Dr. STE 28  
Corpus Christi, TX 78411  
**Phone:** (512) 854-9182 **FAX:** (512) 854-0734

Report #/Lab ID#:204617	Report Date:6/18/97
Project ID: 265-00001-01	
Sample Name: N. Wall #1	
Sample Matrix: soil	
Date Received: 06/07/97	Time: 14:45:00
Date Sampled: 6/5/97	Time: 18:21:00

**Surrogate Recoveries**

Surrogate Compound	Method	Recovery	Recovery Limits
Chlorobenzene-d5	602 & 8020	97.3	80-120

**Drillrite Inc.**

1 F ch 1 Sub 0, A T  
3744  
& 9320 Up River Road, Corpus Christi, TX 78409  
(512) 444-5396 • FAX (512) 447-4766

**REPORT OF ANALYSIS**

Client: Applied Earth Sciences  
Attn: Brent Balusek  
Address: 4455 South Padre Island Dr. STE 28  
Corpus Christi, TX 78411  
Phone: (512) 854-9182 FAX:(512) 854-0734

**REPORT OF ANALYSIS**

Parameter	Result	Units	RQL <sup>5</sup>	Blank	Date	Method	Prec. <sup>2</sup>	Recov. <sup>3</sup>	CCV <sup>4</sup>	LCS <sup>4</sup>
Petroleum hydrocarbons	2350	mg/Kg	500	<10	6/11/97	418.1	0.87	74.13	105.13	86.13
Volatile organics-BTEX/602	---				6/13/97	602 & 8020	1	74.8	95	99.2
Benzene	1750	µg/Kg	100	<1	6/13/97	602 & 8020	0.2	77.2	100.9	112.2
Ethylbenzene	2990	µg/Kg	100	<1	6/13/97	602 & 8020	2	76	95.8	103.9
m,p-Xylenes	2050	µg/Kg	100	<1	6/13/97	602 & 8020	3.2	74.9	96.8	110.6
o-Xylene	2100	µg/Kg	100	<1	6/13/97	602 & 8020	0.6	76.7	97.2	105.5
Toluene	14300	µg/Kg								

**QUALITY ASSURANCE DATA<sup>1</sup>**

Report #/Lab ID#:204618	Report Date:6/18/97
Project ID: 265-00001-01	
Sample Name: N. Wall #2	
Sample Matrix: soil	
Date Received: 6/7/97	Time: 14:45:00
Date Sampled: 6/5/97	Time: 18:26:00

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Respectfully Submitted,

*Hopkins Haden*

Hopkins Haden

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2. Precision (Prec.) is the absolute value of the relative percent (%) difference between duplicate measurements.
3. Recovery (Recov.) is the percent (%) of analyte recovered from a spiked sample.
4. Calibration Verification (CCV) and Lab Control Sample (LCS) results expressed as the percent (%) recovery of analyte from a known standard.
5. Reporting Quantitation Limit (PQL) or the Method Detection Limit (MDL) reported for the analyte.
6. Method numbers typically denote USEPA procedures. Less than ("<") values reflect nominal quantitation limits, adjusted for any required dilution.

**DLI, LLC, INC.**

<b>Client:</b>	Applied Earth Sciences
<b>Attn:</b>	Brent Balusek
<b>Address:</b>	4455 South Padre Island Dr. STE 28 Corpus Christi, TX 78411
<b>Phone:</b>	(512) 854-9182 FAX:(512) 854-0734

<b>Report #/Lab ID#:</b> 204618	<b>Report Date:</b> 6/18/97
Project ID: 265-00001-01	
Sample Name: N. Wall #2	
Sample Matrix: soil	
Date Received: 06/07/97	Time: 14:45:00
Date Sampled: 6/5/97	Time: 18:26:00

**Surrogate Recoveries**

Surrogate Compound	Method	Recovery	Recovery Limits
Chlorobenzene-d5	602 & 8020	99.5	80-120

**Hopkins Haden**

1 F ch 1 Sul 0, A T 3744  
& 9320 Up River Road, Corpus Christi, TX 78409  
(512) 444-5896 • FAX (512) 447-4766

**Client:** Applied Earth Sciences  
**Attn:** Brent Balusek  
**Address:** 4455 South Padre Island Dr. STE 28  
Corpus Christi, TX 78411  
**Phone:** (512) 854-9182 **FAX:** (512) 854-0734

#### REPORT OF ANALYSIS

Parameter	Result	Units	RQL <sup>5</sup>	Blank	Date	Method	Prec. <sup>2</sup>	Recov. <sup>3</sup>	CCV <sup>4</sup>	LCS <sup>4</sup>
Petroleum hydrocarbons	1560	mg/Kg	500	<10	6/11/97	418.1	0.87	74.13	105.13	86.13
Volatile organics-BTEX/602	---				6/12/97	602 & 8020	--	--	--	--
Benzene	1200	µg/Kg	100	<1	6/12/97	602 & 8020	1	74.8	95	99.2
Ethylbenzene	6380	µg/Kg	100	<1	6/12/97	602 & 8020	0.2	77.2	100.9	112.2
m,p-Xylenes	19000	µg/Kg	100	<1	6/12/97	602 & 8020	2	76	95.8	103.9
o-Xylene	10200	µg/Kg	100	<1	6/12/97	602 & 8020	3.2	74.9	96.8	110.6
Toluene	9870	µg/Kg	100	<1	6/12/97	602 & 8020	0.6	76.7	97.2	105.5

#### QUALITY ASSURANCE DATA<sup>1</sup>

Report #/Lab ID#:204619 Report Date:6/18/97  
 Project ID: 265-00001-01  
 Sample Name: N. Wall #3  
 Sample Matrix: soil  
 Date Received: 6/7/97  
 Date Sampled: 6/5/97  
 Time: 2:45 PM  
 Time: 18:35:00

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Respectfully Submitted,

*Hopkins Haden*

Hopkins Haden

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3. Recovery (Recov.) is the percent (%) of analyte recovered from a spiked sample.
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5. Reporting Quantitation Limit. The Practical Quantitation Limit (PQL) or the Method Detection Limit (MDL) reported for the analyte.
6. Method numbers typically denote USEPA procedures. Less than ("<") values reflect nominal quantitation limits, adjusted for any required dilution.

**Hopkins Haden**

221 French Lane, Suite 10, Corpus Christi, TX 78444  
& 9320 Up River Road, Corpus Christi, TX 78409  
(512) 444-5896 • FAX (512) 447-4766

**Client:** Applied Earth Sciences  
**Attn:** Brent Balusek  
**Address:** 4455 South Padre Island Dr. STE 28  
TX 78411  
**Phone:** (512) 854-9182 **FAX:** (512) 854-0734

#### REPORT OF ANALYSIS

Parameter	Result	Units	RQL <sup>5</sup>	Blank	Date	Method	Prec. <sup>2</sup>	Recov. <sup>3</sup>	CCV <sup>4</sup>	LCS <sup>4</sup>
Petroleum hydrocarbons	35.6	mg/Kg	10	<10	6/11/97	418.1	0.87	74.13	105.13	86.13
Volatile organics-BTEX/602	---				6/12/97	602 & 8020	-	-	-	-
Benzene	<20	µg/Kg	20	<1	6/12/97	602 & 8020	1	74.8	95	99.2
Ethylbenzene	<20	µg/Kg	20	<1	6/12/97	602 & 8020	0.2	77.2	100.9	112.2
m,p-Xylenes	<20	µg/Kg	20	<1	6/12/97	602 & 8020	2	76	95.8	103.9
o-Xylene	<20	µg/Kg	20	<1	6/12/97	602 & 8020	3.2	74.9	96.8	110.6
Toluene	<20	µg/Kg	20	<1	6/12/97	602 & 8020	0.6	76.7	97.2	105.5

#### QUALITY ASSURANCE DATA<sup>1</sup>

Report #/Lab ID#:	204623	Report Date:	6/18/97
Project ID:	265-00001-01		
Sample Name:	P.C. #1		
Sample Matrix:	soil		
Date Received:	6/7/97	Time:	14:45:00
Date Sampled:	6/4/97	Time:	18:28:00

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Hopkins Haden

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4. Calibration Verification (CCV) and Lab Control Sample (LCS) results expressed as the percent (%) recovery of analyte from a known standard.
5. Reporting Quantitation Limit. The Practical Quantitation Limit (PQL) or the Method Detection Limit (MDL) reported for the analyte.
6. Method numbers typically denote USEPA procedures. Less than ("<") values reflect nominal quantitation limits, adjusted for any required dilution.

CHIULY INC.

Client: Applied Earth Sciences  
Attn: Brent Balusek  
Address: 4455 South Padre Island Dr. STE 28  
Corpus Christi, TX 78411  
Phone: (512) 854-9182 FAX: (512) 854-0734

Surrogate Recoveries

Surrogate Compound	Method	Recovery	Recovery Limits
Chlorobenzene-d5	602 & 8020	95.8	80-120

Report #/Lab ID#:204628 Report Date:6/18/97  
Project ID: 265-00001-01  
Sample Name: P.C. #2  
Sample Matrix: soil  
Date Received: 06/07/97 Time: 14:45:00  
Date Sampled: 6/6/97 Time: 10:12:00

**ANALYSYS**

21 1 1ch , Su 10, 1, 1 874  
A 9320 Up River Road, Corpus Christi, TX 78409  
(512) 444-5896 • FAX (512) 447-4766

<b>Client:</b>	Applied Earth Sciences
<b>Attn:</b>	Brent Balusek
<b>Address:</b>	4455 South Padre Island Dr. STE 28
	Corpus Christi, TX 78411
<b>Phone:</b>	(512) 854-9182 FAX: (512) 854-0734

#### REPORT OF ANALYSIS

Parameter	Result	Units	RQI, <sup>5</sup>	Blank	Date	Method	Prec. <sup>2</sup>	Recov. <sup>3</sup>	CCV <sup>4</sup>	LCS <sup>4</sup>
Petroleum hydrocarbons	23.7	mg/Kg	10	<10	6/11/97	418.1	0.87	74.13	105.13	86.13
Volatile organics-BTEX/602	---			6/16/97	602 & 8020					
Benzene	<20	µg/Kg	20	<1	6/16/97	602 & 8020	3.8	76.8	95.4	99.3
Ethylbenzene	<20	µg/Kg	20	<1	6/16/97	602 & 8020	7.1	80.5	102.4	109.6
m,p-Xylenes	<20	µg/Kg	20	<1	6/16/97	602 & 8020	8.6	77	96.9	102.7
o-Xylene	<20	µg/Kg	20	<1	6/16/97	602 & 8020	7.4	78.7	100.4	105.7
Toluene	<20	µg/Kg	20	<1	6/16/97	602 & 8020	7.2	79.6	101.8	106.5

#### QUALITY ASSURANCE DATA<sup>1</sup>

Report #/Lab ID#:204629	Report Date:6/18/97
Project ID:265-00001-01	
Sample Name:P.C. #3	
Sample Matrix:soil	
Date Received:6/7/97	Time: 14:45:00
Date Sampled: 6/6/97	Time: 10:58:00

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Hopkins Haden

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3. Recovery (Recov.) is the percent (%) of analyte recovered from a spiked sample.
4. Calibration Verification (CCV) and Lab Control Sample (LCS) results expressed as the percent (%) recovery of analyte from a known standard.
5. Reporting Quantitation Limit. The Practical Quantitation Limit (PQL) or the Method Detection Limit (MDL) reported for the analyte.
6. Method numbers typically denote USEPA procedures. Less than ("<") values reflect nominal quantitation limits, adjusted for any required dilution.

**Q'nlry5y<sup>2</sup>**

Client:	Applied Earth Sciences
Attn:	Brent Balusek
Address:	4455 South Padre Island Dr. STE 28 Corpus Christi, TX 78411
Phone:	(512) 854-9182 FAX: (512) 854-0734

Report #/Lab ID#:204629	Report Date:6/18/97
Project ID:265-00001-01	
Sample Name:P.C. #3	
Sample Matrix:soil	
Date Received:06/07/97	Time:14:45:00
Date Sampled: 6/6/97	Time:10:58:00

**Surrogate Recoveries**

Surrogate Compound	Method	Recovery	Recovery Limits
Chlorobenzene-d5	602 & 8020	99.4	80-120

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& 9320 Up River Road, Corpus Christi, TX 78409  
(512) 444-5896 • FAX (512) 447-4766

Client: Applied Earth Sciences  
Attn: Brent Balusek  
Address: 4455 South Padre Island Dr. STE 28  
Corpus Christi, TX 78411  
Phone: (512) 854-9182 FAX: (512) 854-0734

#### REPORT OF ANALYSIS

Parameter	Result	Units	RQL <sup>5</sup>	Blank	Date	Method	Prec. <sup>2</sup>	Recov. <sup>3</sup>	CCV <sup>4</sup>	LCS <sup>4</sup>
Petroleum hydrocarbons	17.5	mg/Kg	10	<10	6/16/97	418.1	0.87	74.13	105.13	86.13
Volatile organics-BTEX/602	---				6/16/97	602 & 8020	--	--	--	--
Benzene	<20	µg/Kg	20	<1	6/16/97	602 & 8020	3.8	76.8	95.4	99.3
Ethylbenzene	<20	µg/Kg	20	<1	6/16/97	602 & 8020	7.1	80.5	102.4	109.6
m,p-Xylenes	<20	µg/Kg	20	<1	6/16/97	602 & 8020	8.6	77	96.9	102.7
o-Xylene	<20	µg/Kg	20	<1	6/16/97	602 & 8020	7.4	78.7	100.4	105.7
Toluene	<20	µg/Kg	20	<1	6/16/97	602 & 8020	7.2	79.6	101.8	106.5

#### QUALITY ASSURANCE DATA<sup>1</sup>

Report #/Lab ID#:	204630	Report Date:	6/18/97
Project ID:	265-00001-01		
Sample Name:	P.C. #4		
Sample Matrix:	soil		
Date Received:	6/7/97	Time:	14:45:00
Date Sampled:	6/6/97	Time:	11:15:00

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Respectfully Submitted,  
*Hopkins Haden*  
Hopkins Haden

1. Quality assurance data reported is for the lot analyzed which included this sample.
2. Precision (Prec.) is the absolute value of the relative percent (%) difference between duplicate measurements.
3. Recovery (Recov.) is the percent (%) of analyte recovered from a spiked sample.
4. Calibration Verification (CCV) and Lab Control Sample (LCS) results expressed as the percent (%) recovery of analyte from a known standard.
5. Reporting Quantitation Limit. The Practical Quantitation Limit (PQL) or the Method Detection Limit (MDL) reported for the analyte.
6. Method numbers typically denote USEPA procedures. Less than ("<") values reflect nominal quantitation limits, adjusted for any required dilution.

**Enviro, Inc.**

**Client:** Applied Earth Sciences  
**Attn:** Brent Balusck  
**Address:** 4455 South Padre Island Dr. STE 28  
Corpus Christi, TX 78411  
**Phone:** (512) 854-9182 **FAX:** (512) 854-0734

**Surrogate Recoveries**

Surrogate Compound	Method	Recovery	Recovery Limits
Chlorobenzene-d5	602 & 8020	98.5	80-120

**Report #/Lab ID#: 204619      Report Date: 6/18/97**  
**Project ID: 265-00001-01**  
**Sample Name: N\_Wall #3**  
**Sample Matrix: soil**  
**Date Received: 06/07/97      Time: 14:45:00**  
**Date Sampled: 6/5/97      Time: 18:35:00**

**Hopkins Haden**

1 F.....ch L...., Sub. ..0, Austin, TX .3744  
& 9320 Up River Road, Corpus Christi, TX 78409  
(512) 444-5806 • FAX (512) 447-4766

**Client:** Applied Earth Sciences  
**Attn:** Brent Bahnsck  
**Address:** 4459 South Padre Island Dr. STE 28  
 Corpus Christi, TX 78411  
**Phone:** (512) 854-9182 **FAX:**(512) 854-0734

**REPORT OF ANALYSIS**

Parameter	Result	Units	RQL <sup>5</sup>	Blank	Date	Method	Prec. <sup>2</sup>	Recov. <sup>3</sup>	CCV <sup>4</sup>	LCS <sup>4</sup>
Metals Dig.-HNO <sub>3</sub>	---	mg/Kg	500	<10	6/17/97	3051				
Petroleum hydrocarbons	5190	mg/Kg	500	6/11/97	418.1		0.87	74.13	105.13	86.13
Lead/ICP	14.7	mg/Kg	5	<0.1	6/19/97	6010 & 200.7	20.28	69.39	98.87	99.77
Volatile organics-BTEX/602	---				6/13/97	602 & 8020				
Benzene	7790	µg/Kg	500	<1	6/13/97	602 & 8020	1	74.8	95	99.2
Ethylbenzene	19500	µg/Kg	500	<1	6/13/97	602 & 8020	0.2	77.2	100.9	112.2
m,p-Xylenes	69900	µg/Kg	500	<1	6/13/97	602 & 8020	2	76	95.8	103.9
o-Xylene	33900	µg/Kg	500	<1	6/13/97	602 & 8020	3.2	74.9	96.8	110.6
Toluene	45600	µg/Kg	500	<1	6/13/97	602 & 8020	0.6	76.7	97.2	105.5

**QUALITY ASSURANCE DATA<sup>1</sup>**

Report #/Lab ID#:204620 Report Date:6/23/97  
 Project ID: 265-00001-01  
 Sample Name:N. Wall #4  
 Sample Matrix: soil  
 Date Received: 6/7/97 Time: 14:45:00  
 Date Sampled: 6/5/97 Time: 18:46:00

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Respectfully Submitted,

*Hopkins Haden*

Hopkins Haden

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3. Recovery (Recov.) is the percent (%) of analyte recovered from a spiked sample.
4. Calibration Verification (CCV) and Lab Control Sample (LCS) results expressed as the percent (%) recovery of analyte from a known standard.
5. Reporting Quantitation Limit (PQL) or the Method Detection Limit (MDL) reported for the analyte.
6. Method numbers typically denote USEPA procedures. Less than ("<") values reflect nominal quantitation limits, adjusted for any required dilution.

DLT INC.

**Client:** Applied Earth Sciences  
**Attn:** Brent Bausek  
**Address:** 4455 South Padre Island Dr. STE 28  
Corpus Christi,  
TX 78411  
**Phone:** (512) 854-9182 **FAX:** (512) 854-0734

**Report #/Lab ID#:** 204620 **Report Date:** 6/23/97  
**Project ID:** 265-00001-01  
**Sample Name:** N Wall #4  
**Sample Matrix:** soil  
**Date Received:** 06/07/97 **Time:** 14:45:00  
**Date Sampled:** 6/5/97 **Time:** 18:46:00

**Surrogate Recoveries**

Surrogate Compound	Method	Recovery	Recovery Limits
Chlorobenzene-d5	602 & 8020	103	80-120

Quality Assurance  
Inc.

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& 9320 Up River Road, Corpus Christi, TX 78409  
(512) 444-5896 • FAX (512) 447-4766

Client: Applied Earth Sciences  
Attn: Brent Balusek  
Address: 4455 South Padre Island Dr. STE 28  
Corpus Christi, TX 78411  
Phone: (512) 854-9182 FAX: (512) 854-0734

#### REPORT OF ANALYSIS

Parameter	Result	Units	RQI <sup>5</sup>	Blank	Date	Method	Prec. <sup>2</sup> /Recov. <sup>3</sup>	CCV <sup>4</sup>	LCS <sup>4</sup>
Petroleum hydrocarbons	2740	mg/Kg	500	<10	6/11/97	418.1	0.87	74.13	105.13
Volatile organics-BTEX/602	---				6/13/97	602 & 8020			
Benzene	5630	µg/Kg	100	<1	6/13/97	602 & 8020	1	74.8	95
Ethylbenzene	16000	µg/Kg	100	<1	6/13/97	602 & 8020	0.2	77.2	100.9
m,p-Xylenes	54200	µg/Kg	100	<1	6/13/97	602 & 8020	2	76	95.8
o-Xylene	24900	µg/Kg	100	<1	6/13/97	602 & 8020	3.2	74.9	96.8
Toluene	36700	µg/Kg	100	<1	6/13/97	602 & 8020	0.6	76.7	97.2

#### QUALITY ASSURANCE DATA<sup>1</sup>

Report #/Lab ID#:	204621	Report Date:	6/18/97
Project ID#:	265-00001-01		
Sample Name:	W. Wall #1		
Sample Matrix:	soil		
Date Received:	6/7/97	Time:	14:45:00
Date Sampled:	6/5/97	Time:	18:52:00

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Respectfully Submitted,

*Hopkins Haden*

Hopkins Haden

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4. Calibration Verification (CCV) and Lab Control Sample (LCS) results expressed as the percent (%) recovery of analyte from a known standard.
5. Reporting Quantitation Limit. The Practical Quantitation Limit (PQL) or the Method Detection Limit (MDL) reported for the analyte.
6. Method numbers typically denote USEPA procedures. Less than ("<") values reflect nominal quantitation limits, adjusted for any required dilution.

DRI Testing Inc.

**Client:** Applied Earth Sciences  
**Attn:** Brent Balusck  
**Address:** 4455 South Padre Island Dr. STE 28  
Corpus Christi, TX 78411  
**Phone:** (512) 854-9182 **FAX:** (512) 854-0734

**Surrogate Recoveries**

Surrogate Compound	Method	Recovery	Recovery Limits
Chlorobenzene-d5	602 & 8020	101	80-120

**Report #/Lab ID#:** 204621    **Report Date:** 6/18/97  
**Project ID:** 265-00001-01  
**Sample Name:** W. Wall #1  
**Sample Matrix:** soil  
**Date Received:** 06/07/97    **Time:** 14:45:00  
**Date Sampled:** 6/5/97    **Time:** 18:52:00

01968

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 & 9320 Up River Road, Corpus Christi, TX      78409  
 (512) 444-5896 • FAX (512) 447-4766

**Client:** Applied Earth Sciences  
**Alt:** Brent Balusek  
**Address:** 4455 South Padre Island Dr. STE 28  
 Corpus Christi, TX 78411  
**Phone:** (512) 854-9182    **FAX:** (512) 854-0734

#### REPORT OF ANALYSIS

#### QUALITY ASSURANCE DATA<sup>1</sup>

Parameter	Result	Units	RQL <sup>5</sup>	Blank	Date	Method	Prec. <sup>2</sup>	Recovery <sup>3</sup>	CCV <sup>4</sup>	LCS <sup>4</sup>
Petroleum hydrocarbons	2430	mg/Kg	500	<10	6/11/97	418.1	0.87	74.13	105.13	86.13
Volatile organics-BTEX/602	---				6/13/97	602 & 8020				
Benzene	7120	µg/Kg	500	<1	6/13/97	602 & 8020	1	74.8	95	99.2
Ethylbenzene	18500	µg/Kg	500	<1	6/13/97	602 & 8020	0.2	77.2	100.9	112.2
m,p-Xylenes	72600	µg/Kg	500	<1	6/13/97	602 & 8020	2	76	95.8	103.9
o-Xylene	34700	µg/Kg	500	<1	6/13/97	602 & 8020	3.2	74.9	96.8	110.6
Toluene	34600	µg/Kg	500	<1	6/13/97	602 & 8020	0.6	76.7	97.2	105.5

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Respectfully Submitted,

*Hopkins Haden*  
Hopkins Haden

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3. Recovery (Recovery) is the percent (%) of analyte recovered from a spiked sample.
4. Calibration Verification (CCV) and Lab Control Sample (LCS) results expressed as the percent (%) recovery of analyte from a known standard.
5. Reporting Quantitation Limit (PQL) or the Method Detection Limit (MDL) reported for the analyte.
6. Method numbers typically denote USEPA procedures. Less than ("<") values reflect nominal quantitation limits, adjusted for any required dilution.

**Applied Earth Sciences**  
INC.

Client: Applied Earth Sciences  
Attn: Brent Balusek  
Address: 4455 South Padre Island Dr. STE 28  
Corpus Christi, TX 78411  
Phone: (512) 854-9182 FAX: (512) 854-0734

Report #/Lab ID#:204622 Report Date:6/18/97  
Project ID:265-00001-01  
Sample Name: W. Wall #2  
Sample Matrix: soil  
Date Received:06/07/97 Time: 14:45:00  
Date Sampled: 6/5/97 Time: 18:57:00

**Surrogate Recoveries**

Surrogate Compound	Method	Recovery	Recovery Limits
Chlorobenzene-d5	602 & 8020	102	80-120

01970

DLI, LLC.

Client: Applied Earth Sciences  
Attn: Brent Balusek  
Address: 4455 South Padre Island Dr. STE 28  
Corpus Christi, TX 78411  
Phone: (512) 854-9182 FAX: (512) 854-0734

Report #/Lab ID#:204630	Report Date:6/18/97
Project ID:265.00001-01	
Sample Name:P.C. #4	
Sample Matrix:soil	
Date Received:06/07/97	Time: 14:45:00
Date Sampled: 6/6/97	Time: 11:15:00

Surrogate Recoveries

Surrogate Compound	Method	Recovery	Recovery Limits
Chlorobenzene-d5	602 & 8020	92.3	80-120

01971

11 F Ich Sui '0, A 'T  
& 9320 Up River Road, Corpus Christi, TX 78409  
(512) 444-5896 • FAX (512) 447-4766

Client: Applied Earth Sciences  
Attn: Brent Balusck  
Address: 4455 South Padre Island Dr. STE 28  
Corpus Christi, TX 78411  
Phone: (512) 854-9182 FAX: (512) 854-0734

#### REPORT OF ANALYSIS

#### QUALITY ASSURANCE DATA

Parameter	Result	Units	RQL <sup>5</sup>	Blank	Date	Method	Prec. <sup>2</sup>	Recovery <sup>3</sup>	CCV <sup>4</sup>	LCS <sup>4</sup>
Petroleum hydrocarbons	34	mg/Kg	10	<10	6/11/97	418.1	0.87	74.13	105.13	86.13
Volatile organics-BTEX/602	---				6/16/97	602 & 8020	--	--	--	--
Benzene	<20	µg/Kg	20	<1	6/16/97	602 & 8020	3.8	76.8	95.4	99.3
Ethylbenzene	<20	µg/Kg	20	<1	6/16/97	602 & 8020	7.1	80.5	102.4	109.6
m,p-Xylenes	<20	µg/Kg	20	<1	6/16/97	602 & 8020	8.6	77	96.9	102.7
o-Xylene	<20	µg/Kg	20	<1	6/16/97	602 & 8020	7.4	78.7	100.4	105.7
Toluene	<20	µg/Kg	20	<1	6/16/97	602 & 8020	7.2	79.6	101.8	106.5

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5. Reporting Quantitation Limit (PQL) or the Method Detection Limit (MDL) reported for the analyte.
6. Method numbers typically denote USEPA procedures. Less than ("<") values reflect nominal quantitation limits, adjusted for any required dilution.

Applied Earth Sciences

Client: Applied Earth Sciences  
Attn: Brent Balusek  
Address: 4455 South Padre Island Dr. STE 28  
Corpus Christi, TX 78411  
Phone: (512) 854-9182 FAX: (512) 854-0734

Report #/Lab ID#:204631	Report Date:6/18/97
Project ID:265-00001-01	
Sample Name:P.C. #5	
Sample Matrix:soil	
Date Received:06/07/97	Time: 14:45:00
Date Sampled: 6/6/97	Time: 11:28:00

Surrogate Recoveries

Surrogate Compound	Method	Recovery	Recovery Limits
Chlorobenzene-d5	602 & 8020	93.2	80-120

01973

## HAIN-OFF-CUSTODY

id Reports To: Company Name A&S Inc  
 Address 4455 S P I.D. #28  
City State TX Zip 78411  
 ATTN: BENJAMIN BRUNSTAD  
 Phone (512) 854-9162 Fax (512) 854-0134

In Status (must be confirmed with lab mgr.):  
 Job Name/PO#: 265-ccoc1-c1 Sampler: BRENT BRUNSTAD

### BILL TO (if different):

Company Name \_\_\_\_\_  
 Address \_\_\_\_\_  
 City \_\_\_\_\_ State \_\_\_\_\_ Zip \_\_\_\_\_  
 ATTN: \_\_\_\_\_  
 Phone \_\_\_\_\_ Fax \_\_\_\_\_

4221 Friedrich Lane, Suite 190, Austin, TX 78744  
 (512) 444-5896

**Analyses Requested (1)**  
 Please attach explanatory information as required

Client Sample No. Description/Identification	Date Sampled	Time Sampled	No. of Containers	Soil	Water/Waste	Lab I.D. # (Lab only)	Comments
K #1	6/6/97	14:51	1	✓		204588	✓
K #2		15:01	1	✓		204589	✓
K #3		15:08	1	✓		204590	✓
K #4		15:12	1	✓		204591	✓
K #5		15:20	1	✓		204592	✓
K #6		15:23	1	✓		204593	✓
K #7		15:37	1	✓		204594	✓
K #8		15:39	1	✓		204595	✓
K #9		15:42	1	✓		204596	✓
K #10		15:45	1	✓		204597	✓

is specifically requested otherwise on this Chain-of-custody and/or attached documentation, all analyses will be conducted using ASI's method of choice and all data will be reported to ASI's normal reporting ADL/PLQ). For GC/MS volatiles and extractables, unless specific analytical parameter lists are specified on this chain-of-custody or attached to this chain-of-custody, ASI will default to Priority Pollutants or SL list at ASI's option. Specific compound lists must be supplied for all GC procedures.

Sample Relinquished By			Sample Received By		
Name	Affiliation	Date	Name	Affiliation	Date
<u>BENJAMIN BRUNSTAD</u>	<u>A&amp;S INC</u>	<u>6/7/97</u>	<u>B. Morris</u>	<u>ASL</u>	<u>6/7/97</u>
			<u>Willie Whittlefield</u>	<u>ASL</u>	<u>6/10/97</u>
					<u>6/10/97</u>

Bring of above described samples to AnalySys, Inc. for analytical testing constitutes agreement by buyer/sampler to AnalySys, Inc.'s standard terms 1









# IAIN-OF-CUSTODY

## 1. Reports To:

Company Name ASL INC.  
 Address 4455 S. R. 1. P. # 28  
 City State TX Zip 78411  
 ATTN: Brent Baucus  
 n(512)554-9182 Fax(512) 854-0734  
 h Status (must be confirmed with lab mgr.):  
 ect Name/PO#: 245-0001-01 Sampler: BRENT BAUCUS

## Bill to (if different):

Company Name \_\_\_\_\_  
 Address \_\_\_\_\_  
 City \_\_\_\_\_ State \_\_\_\_\_ Zip \_\_\_\_\_  
 ATTN: \_\_\_\_\_  
 Phone \_\_\_\_\_ Fax \_\_\_\_\_  
 Please attach explanatory information as required

4221 Freidrich Lane, Suite 190, Austin, TX 78744  
 (512) 444-5896

Client Sample No. scription/Identification	Date Sampled	Time Sampled	No. of Containers	Soil	Water Waste	Lab I.D. # (Lab only)	Comments
# 1	6/4/97	18:29	1	/	/	204623	PLEASE
# 1	6/4/97	18:33	1	/	/	204624	COMPOSITE
# 1	6/4/97	18:43	1	/	/	204625	ONE (1) SAMPLE
# 1	6/4/97	18:47	1	/	/	204626	AT LAB
# 1	6/4/97	18:54	1	/	/	204627	
# 2	6/6/97	10:12	2	/	/	204628	PLEASE COMPOSITE INTO ONE SAMPLE
# 3	6/6/97	10:58	2	/	/	204629	PLEASE
# 4	6/6/97	11:15	1	/	/	204630	COMPOSITE INTO ONE SAMPLE
# 5	6/6/97	11:28	1	/	/	204631	AT LAB
							ON HIGHEST BTX
							EXCEPT BTX #1-3 COMPOSITE C.O.S.

\* specifically requested otherwise on this Chain-of-custody and/or attached documentation, all analyses will be conducted using ASI's method of choice and all data will be reported to ASI's normal reporting ID/PQL. For GC/MS volatiles and extractables, unless specific analytical parameter lists are specified on this chain-of-custody or attached to this chain-of-custody, ASI will default to Priority Pollutants or 1. list at ASI's option. Specific compound lists must be supplied for all GC procedures.

## 2. Sample Relinquished By

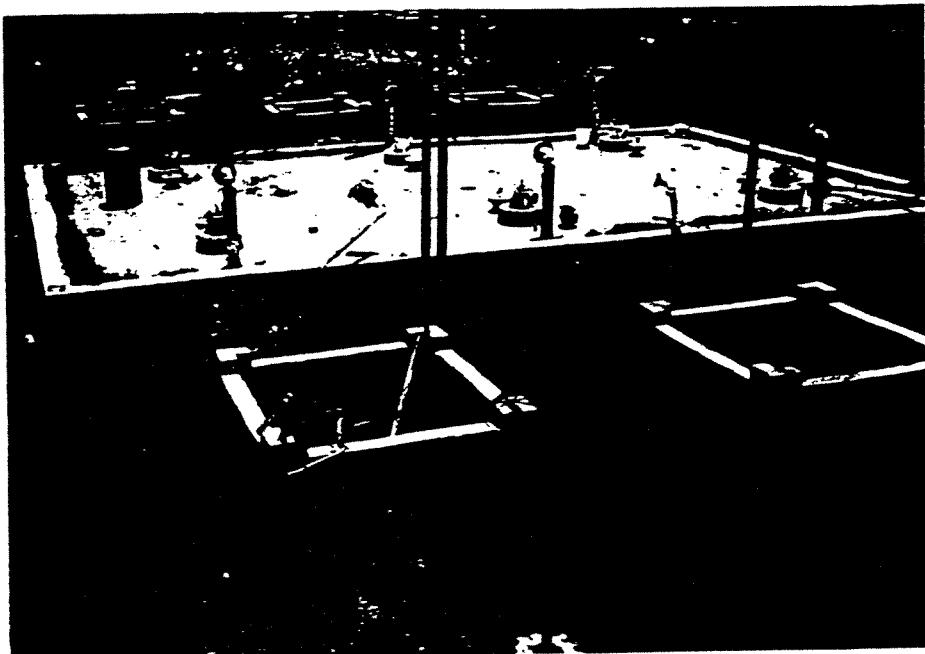
Name	Affiliation	Date	Time	Name	Affiliation	Date	Time
<u>Brent Baucus</u>	<u>ASL INC.</u>	<u>6/7/97</u>	<u>14:45</u>	<u>B. Baucus</u>	<u>ASL</u>	<u>6/7/97</u>	<u>14:45</u>

ring of above described samples to AnalySys, Inc. for analytical testing constitutes agreement by buyer/sampler to AnalySys, Inc.'s standard terms.)

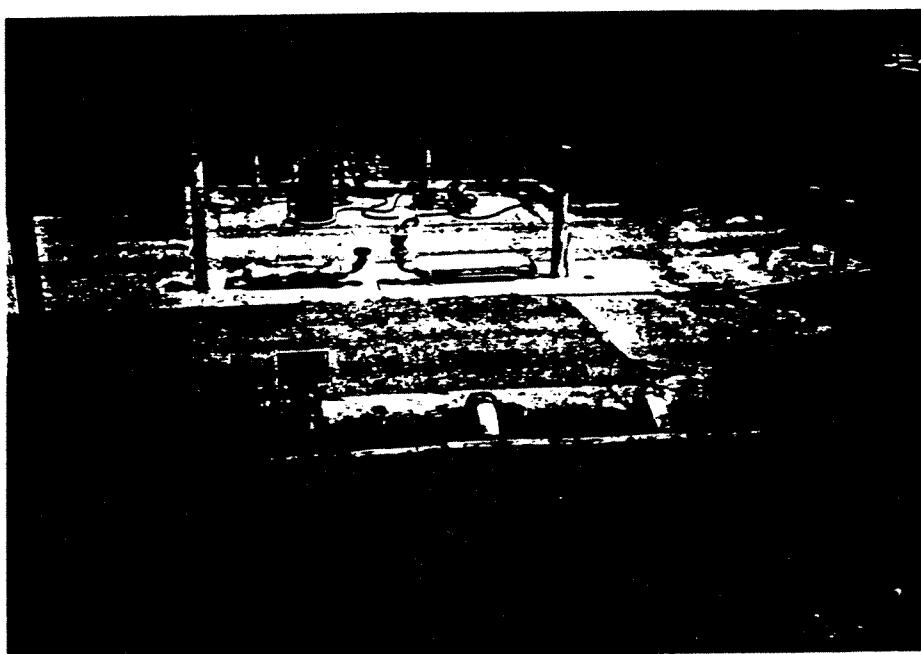
**Photographic Documentation**

**01980**

**Photographic Documentation  
Fuel Farm Facility LPST #95021  
Laredo International Airport, Laredo, Texas  
AES Project # 265-00001-01**



Photograph #1. View of UST locations prior to removal facing west. Photograph taken by Mark Lewis 5/30/97.



Photograph #2. View of fuel loading and unloading area prior to equipment and underground pipe removal facing southeast. Photograph taken by Mark Lewis 5/30/97.

01981

# STUART HASTEDT COMPANY

P. O. BOX 217  
COLUMBUS, TEXAS 78934  
(409) 732-2222 • FAX (409) 732-5212

No. 5557

## Disposal Certificate for Underground Fuel Tank

This 25000 gallon steel underground storage tank  
was removed from facility # \_\_\_\_\_ located at:

City of Laredo

Laredo International Airport

Laredo, TX

The tank was removed on June 06, 1997 and transported to:

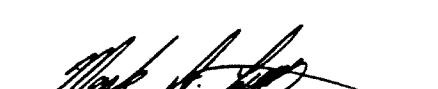
Stuart Hastedt Company

200 Burford Dr.

Columbus, TX 78934

The receiving agency will destroy this tank by:

June 16, 1997

  
\_\_\_\_\_  
Gemini - Removal Contractor

06-06-97  
Date

  
\_\_\_\_\_  
Stuart Hastedt Company - Receiving Agency

06-06-97  
Date

01988

Gate #3

No. 5067



## NON-HAZARDOUS SPECIAL WASTE MANIFEST

## GENERATOR

CHRISTI

Authorized Agent GEMINI TECHNICAL SVCS, INC., Generating Location ~~TX~~ LAREDO AIRPORT

Address P.O. Box 260175

Address FUEL FARM

CORPUS CHRISTI, TX 78426

Phone No. 512 - 3878035

Phone No. 512 - 3878035  
210 795-2025

Waste Code

--	--	--	--	--	--	--	--

Description of Waste

Quantity - Gallons

200 GAL. PURGE WATER

1260

1060 GAL. RESIDUAL FUELS

--	--	--	--

--	--	--	--

 Open Hole Inside U.S.T. 55 Gal. Drums Other

I hereby certify that the above named material is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations.

MARK A. LEWIS

Generator Authorized Agent - Print

Mark A. Lewis

Signature

060497

Shipment Date

## TRANSPORTER

RCC Sludge &amp; Waste Water 21955 E.P.A.-I.D.-TXD 006801360 TNRCC-Transporter #23036

Truck No. 362-87

Phone No. 1-800-299-7745

Transporter Name MOVAC ENVIRONMENTAL

Driver Name (Print) Reynaldo Rangel

Address P.O. BOX 4078

Vehicle License No./State 2BT-608

McAllen, TX 78502

Vehicle Certification MCL307

I hereby certify that the above named material was picked up  
at the generator site listed above.

Reynaldo Rangel

Driver Signature

060497

Shipment Date

060497

Delivery Date

## DESTINATION

Name Movac Environmental

Phone No. 210-7261152

Address Hwy 359 Route #3 Laredo TX 78044

Mavis A. Gonzalez

Name of Authorized Agent - Print

Signature

060497

Receipt Date 01989

I hereby certify that the above named material has been accepted and to the best of my knowledge the foregoing is true and accurate.

**TNRCC Construction Notification Form  
and  
TNRCC Letter of Receipt**

01990

**Texas Natural Resource Conservation Commission**  
**UNDERGROUND & ABOVEGROUND STORAGE TANK**  
**CONSTRUCTION NOTIFICATION FORM**

1. <input checked="" type="checkbox"/> Underground Storage Tank (UST)	<input type="checkbox"/> Aboveground Storage Tank (AST)
2. <input type="checkbox"/> Stage I	<input type="checkbox"/> Stage II (Vapor Recovery)
3. TYPE OF CONSTRUCTION: (Indicate all that apply)	
<input type="checkbox"/> Installation	<input type="checkbox"/> Replacement
<input checked="" type="checkbox"/> Removal	<input type="checkbox"/> Abandonment
5. OWNER INFORMATION:	
Facility Name <u>City of Laredo-Airport</u>	
Fuel Farm	
Address/Location: (No P.O. Box) <u>City of Laredo</u>	
<u>Airport</u>	
County: <u>Webb</u>	City: <u>Laredo</u>
Facility No.: <u>9940</u>	
Telephone: <u>(210) 791-7496</u>	
6. CONSULTANT INFORMATION:	
Company <u>Applied Earth Sciences, Inc.</u>	
Representative: <u>Brent Balusek</u>	
Address: <u>4455 S.P.I.D. #28</u>	
City/State/Zip: <u>Corpus Christi, TX 78411</u>	
7. CONTRACTOR INFORMATION:	
Company: <u>Gemini Technical Services, Inc.</u>	
Representative: <u>Mark Lewis</u>	
Address: <u>5464 County Rd. 75</u>	
City/State/Zip: <u>Robstown, TX 78380</u>	
CRP#: <u>001169</u> ILP#: <u>001487</u>	
8. GENERAL DESCRIPTION OF PROPOSED UST/AST ACTIVITY:	
<u>Permanent removal of six (6), 25,000 gallon UST's and ancillary equipment.</u>	
<u>Collection of soil samples from tankhold and associated pipe chases</u>	
9. SCHEDULE/DATES FOR PROPOSED CONSTRUCTION:	
<u>June 2-6, 1997</u>	
10. SUBMITTED BY (SIGNATURE) <u>Brent Balusek</u>	
Title & Company <u>Environmental Scientist II-AES, Inc.</u>	
11. MAIL COMPLETED FORM TO:	
Texas Natural Resource Conservation Commission Petroleum Storage Tank Division P.O. Box 13087 Austin, Texas 78711-3087	

**TNRCC STAFF USE ONLY**

Date Rec'd: _____
Region: _____
Remarks: _____
Tracking No.: _____
Logged By: _____

DMT-21-91 TUE 12:18

CITY OF LAREDO-ENG DEPT

FHA NO. C107191+1490

P.U.

Cty of Laredo - Jars

S-00001-01

Berry R. McBee, Chairman  
R. B. "Ralph" Marquez, Commissioner  
John M. Baker, Commissioner  
Dan Pearson, Executive Director



Post-it brand fax transmittal memo 7671		of pages /
To: Brent	From: Brent	
Co: AES	Co/City of Laredo	
Dept:	Phone:	
Fax #	Fax #	

## TEXAS NATURAL RESOURCE C

Protecting Texas by Reducing

May 9, 1997

Brent Full  
Dally  
PAS  
052297

MR RAJ GUNTNUR  
CITY OF LAREDO  
1110 HOUSTON ST  
LAREDO, TX 74042

Re: UST removal at City of Laredo, City of Laredo Airport, Laredo, Texas; Activity scheduled on June 2, 1997; TNRCC UST Facility No. 09940; Notification received by TNRCC on May 2, 1997.

Dear Mr. Guntnur:

This letter acknowledges receipt by the Texas Natural Resource Conservation Commission (TNRCC) of notification for the above-referenced underground storage tank (UST) construction activity, as required by 30 TAC 334.6.

This letter does not constitute an official approval, permit, or endorsement for the referenced activity or for any associated construction methods or equipment. A copy of your notification has been sent to the TNRCC regional office indicated below. The time and scope of this activity must be confirmed with the regional UST personnel 24 to 72 hours before the activity in order to arrange an inspection. Any rescheduling of the proposed construction must be coordinated and/or approved by authorized regional personnel.

Technical requirements which apply to various UST construction activities are included in 30 TAC 334, Subchapter C. Also, all UST installations, repairs, and removals must be conducted by a registered UST contractor who has a licensed installer or on-site supervisor at the site during all critical junctures, as required by 30 TAC 334, Subchapter I.

Upon completion of construction, the attached UST registration form must be completed and returned to the referenced address on the registration form. For further assistance, please contact the Technical Services Section, Petroleum Storage Tank Division, at (512) 239-2182, or the TNRCC regional UST personnel indicated below.

Sincerely,

*Debbie Williamson*  
for Margy Moore-Pizarro  
Technical Services Section  
Petroleum Storage Tank Division

Enclosure: TNRCC UST Registration Form

970502028/on-time

Regional Representative: Mr. Bill Morris, TNRCC Region 15 Office, 134 East Van Buren, Ste. #301, Harlingen, Texas 78550; Telephone: (210) 425-6010.

P.O. Box 13087 • Austin, Texas 78711-3087 • 512/239-1000 • Internet address: www.tnrc.state.tx.us

printed on recycled paper using soy-based ink

01992

**Amended TNRCC UST Registration Form**

01993

For Use  
in  
TEXAS



TEXAS  
NATURAL  
RESOURCE  
CONSERVATION  
COMMISSION

Please mail completed form to:

Registration Section, PST Division, MC 138  
Texas Natural Resource Conservation Commission  
P.O. Box 13087  
Austin, TX 78711-3087 (512) 239-2160

Facility ID Number (if known)

9940

Owner ID Number (if known)

Tax ID Number (Optional)

Owner Name  
**City of Laredo, Texas**

Facility Name  
**Airport Fuel Farm**

Mailing Address  
**Post Office Box 579**

Physical Address  
**1 Flightline**

City  
**Laredo**

City  
**Laredo**

County  
**Webb County**

County  
**Webb County**

Contact Person  
**Jose Flores**

Telephone  
**(210) 795-2000**

Contact Person  
**Jose Flores**

Telephone  
**(210) 795-2000**

I TYPE OF OWNER

- Private or Corporate       State Government  
 Local Government       Federal Government

TYPE OF FACILITY (Mark all that apply)

- Retail       Farm or Residential       Wholesale  
 Fleet Refueling       Aircraft Refueling       Indian Land  
 Indus./Chem./Mfr. Plnt.  
 Other (please specify) \_\_\_\_\_

I Location of Records (if off-site)

**Laredo International Airport**

Number of aboveground  
storage tanks at this facility **0**

Number of underground  
storage tanks at this facility **0**

I REASON FOR SUBMITTING FORM (Mark all that apply)

- Original Form       Ownership Change (effective date       /      /      )       Owner Information Update  
 Facility Information Update       Tank Information Update (please complete back side of form)  
 Other (please specify) \_\_\_\_\_

Does this facility meet financial responsibility requirements for corrective action?  Yes       No

Does this facility meet 3rd party liability requirements?  Yes       No

If yes, please specify mechanism (Mark all that apply)

- Letter of Credit       Trust Fund       Insurance or Risk Retention Group       PST Remediation Fund\*       Standby Trust Fund  
 Guarantee       Financial Test       Surety Bond       Bond Rating Test\*\*       Local Gov. Fund\*\*

\* Only an acceptable mechanism for Financial Assurance until September 1, 2001. \*\* For local government only.

NOTE: This section must be completed and signed by the Installer. Leave blank if no tank installation activity is involved.

I certify that the information provided concerning recent installations is true to the best of my belief and knowledge:

Was tank testing completed during and after installation?  Yes       No

Installation Company Name (print) \_\_\_\_\_

Contractor's Registration Number **CRP**

Installer's Name (print) \_\_\_\_\_

Installer's License Number **ILP**

Installer Signature \_\_\_\_\_

Date Signed \_\_\_\_\_

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this and all attached documents, and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the submitted information is true, accurate, and complete.

Owner or Owner's Authorized  
(representative) (print) **Brent Balwach**

Title (print) **ENVIRONMENTAL SCIENTIST**

Signature **Brent Balwach**

Date Signed **7/29/97**

Tank ID (e.g. 1, 2, 3 or A, B, C)	2	3	4	5
<b>TANK STATUS</b>				
Tank Installation Date ( <i>month/day/year</i> )	01 / 01 / 51	01 / 01 / 51	01 / 01 / 51	01 / 01 / 51
Tank Capacity ( <i>gallons</i> )	25,000	25,000	25,000	25,000
1. Currently in Use	1. <input type="checkbox"/>	1. <input type="checkbox"/>	1. <input type="checkbox"/>	1. <input type="checkbox"/>
2. Temporarily Out of Service ( <i>date</i> ) Emptied ( <i>Yes/No</i> )	2. <input type="checkbox"/> / <input type="checkbox"/> <input type="checkbox"/> Y <input type="checkbox"/> N	2. <input type="checkbox"/> / <input type="checkbox"/> <input type="checkbox"/> Y <input type="checkbox"/> N	2. <input type="checkbox"/> / <input type="checkbox"/> <input type="checkbox"/> Y <input type="checkbox"/> N	2. <input type="checkbox"/> / <input type="checkbox"/> <input type="checkbox"/> Y <input type="checkbox"/> N
3. Permanently Abandoned in-place ( <i>date</i> ) (must be filled with sand or concrete, etc.)	3. <input type="checkbox"/> / <input type="checkbox"/>			
4. Permanently Removed from the Ground ( <i>date</i> )	4. 06 / 05 / 97	4. 06 / 06 / 97	4. 06 / 06 / 97	4. 06 / 06 / 97
<b>SUBSTANCE STORED</b>				
1. Gasoline	1. <input type="checkbox"/>	1. <input type="checkbox"/>	1. <input type="checkbox"/>	1. <input type="checkbox"/>
2. Diesel	2. <input type="checkbox"/>	2. <input type="checkbox"/>	2. <input type="checkbox"/>	2. <input type="checkbox"/>
3. Kerosene	3. <input type="checkbox"/>	3. <input type="checkbox"/>	3. <input type="checkbox"/>	3. <input type="checkbox"/>
6. Other Petroleum Substance ( <i>please specify</i> )	6. <u>AV GAS</u>	6. <u>AV GAS</u>	6. <u>AV GAS</u>	6. <u>AV GAS</u>
7. Hazardous Substance	7.	7.	7.	7.
a. Name of Principal CERCLA Substance	a. _____	a. _____	a. _____	a. _____
b. Chemical Abstract Service (CAS) No.	b. _____	b. _____	b. _____	b. _____
c. Mixture of Hazardous Substances ( <i>please specify</i> )	c. _____	c. _____	c. _____	c. _____
8. Mixture of Petroleum & Hazardous Substance	8. <input type="checkbox"/>	8. <input type="checkbox"/>	8. <input type="checkbox"/>	8. <input type="checkbox"/>
9. Other ( <i>please specify</i> )	9. _____	9. _____	9. _____	9. _____
<b>UST CONSTRUCTION AND CONTAINMENT</b>				
1. Single Wall (Mark all that apply) <input checked="" type="checkbox"/>	1. <input type="checkbox"/> <input type="checkbox"/>	1. <input type="checkbox"/> <input type="checkbox"/>	1. <input type="checkbox"/> <input type="checkbox"/>	1. <input type="checkbox"/> <input type="checkbox"/>
2. Double Wall	2. <input type="checkbox"/> <input type="checkbox"/>			
3. External Jacket System	3. <input type="checkbox"/> <input type="checkbox"/>			
4. Excavation/Trench Liner System	4. <input type="checkbox"/> <input type="checkbox"/>			
5. Piping System:	5.	a. <input type="checkbox"/> b. <input type="checkbox"/> c. <input type="checkbox"/>	a. <input type="checkbox"/> b. <input type="checkbox"/> c. <input type="checkbox"/>	a. <input type="checkbox"/> b. <input type="checkbox"/> c. <input type="checkbox"/>
a. Pressurized	6. _____	a. <input type="checkbox"/>	6. _____	a. <input type="checkbox"/>
b. Suction	6. _____	b. <input type="checkbox"/>	6. _____	b. <input type="checkbox"/>
c. Gravity	6. _____	c. <input type="checkbox"/>	6. _____	c. <input type="checkbox"/>
6. Other ( <i>please specify</i> )	6. _____	6. _____	6. _____	6. _____
<b>MATERIAL OF CONSTRUCTION</b>				
1. Steel	1. <input type="checkbox"/> <input type="checkbox"/>			
2. Fiberglass-Reinforced Plastic (FRP)	2. <input type="checkbox"/> <input type="checkbox"/>			
3. Composite (steel w/FRP laminate)	3. <input type="checkbox"/> <input type="checkbox"/>			
4. Concrete	4. <input type="checkbox"/> <input type="checkbox"/>			
5. Other ( <i>please specify</i> )	5. _____	5. _____	5. _____	5. _____
<b>RELEASE DETECTION</b> (Mark all that apply) <input checked="" type="checkbox"/>				
1. Vapor Monitoring	1. <input type="checkbox"/> <input type="checkbox"/>			
2. Groundwater Monitoring	2. <input type="checkbox"/> <input type="checkbox"/>			
3. Monitoring Above Excavation Liner	3. <input type="checkbox"/> <input type="checkbox"/>			
4. Automatic In-Tank Monitoring & Inventory Control	4. <input type="checkbox"/> <input type="checkbox"/>			
5. Interstitial Monitoring for Double Wall UST's	5. <input type="checkbox"/> <input type="checkbox"/>			
6. Tightness Testing	6. <input type="checkbox"/> <input type="checkbox"/>			
7. Inventory Control	7. <input type="checkbox"/> <input type="checkbox"/>			
8. Statistical Inventory Reconciliation (SIR)	8. <input type="checkbox"/> <input type="checkbox"/>			
9. None	9. <input type="checkbox"/> <input type="checkbox"/>			
10. Line Leak Detectors	10. <input type="checkbox"/> <input type="checkbox"/>			
11. Other ( <i>please specify</i> )	11. _____	11. _____	11. _____	11. _____
<b>CORROSION PROTECTION</b>				
1. External Dielectric (Mark all that apply) <input checked="" type="checkbox"/>	1. <input type="checkbox"/> <input type="checkbox"/>	1. <input type="checkbox"/> <input type="checkbox"/>	1. <input type="checkbox"/> <input type="checkbox"/>	1. <input type="checkbox"/> <input type="checkbox"/>
Coating/Laminate/Tape/Wrap	2. <input type="checkbox"/> <input type="checkbox"/>			
2. Cathodic Protection - Installation: <input type="checkbox"/> Factory <input type="checkbox"/> Field	3. <input type="checkbox"/> <input type="checkbox"/>			
3. Composite Tank (steel w/FRP cladding)	4. <input type="checkbox"/> <input type="checkbox"/>			
4. Noncorroductive Material (e.g., FRP)	5. <input type="checkbox"/> <input type="checkbox"/>			
5. Electrical Isolation	6. <input type="checkbox"/> <input type="checkbox"/>			
6. None	7. <input type="checkbox"/> <input type="checkbox"/>			
7. Other ( <i>please specify</i> )	7. _____	7. _____	7. _____	7. _____
<b>SPILL AND OVERFILL PREVENTION</b>				
1. Tight-Fill Fitting (Mark all that apply) <input checked="" type="checkbox"/>	1. <input type="checkbox"/> <input type="checkbox"/>	1. <input type="checkbox"/> <input type="checkbox"/>	1. <input type="checkbox"/> <input type="checkbox"/>	1. <input type="checkbox"/> <input type="checkbox"/>
2. Spill Container/Liquid-Tight Sump	2. <input type="checkbox"/> <input type="checkbox"/>			
3. Automatic Overfill Device:	3.	3.	3.	3.
a. Shut-Off Valve	a. <input type="checkbox"/> <input type="checkbox"/>			
b. Flow Restrictor Valve	b. <input type="checkbox"/> <input type="checkbox"/>			
c. Alarm with a. or b.	c. <input type="checkbox"/> <input type="checkbox"/>			
4. None	4. <input type="checkbox"/> <input type="checkbox"/>			
Indicate VAPOR RECOVERY EQUIPMENT STATUS if gasoline is stored and dispensed at this facility, and if facility is located in an ozone nonattainment area: <input type="checkbox"/> Stage II equipment installation date: <u>  /  /  </u> <input type="checkbox"/> No Stage II equipment <input type="checkbox"/> Exempt <input type="checkbox"/> Qualified for ISBMG extension				

01995

For Use  
in  
**TEXAS**



**TEXAS  
NATURAL  
RESOURCE  
CONSERVATION  
COMMISSION**

Please mail completed form to:

Registration Section, PST Division, MC 138  
Texas Natural Resource Conservation Commission  
P.O. Box 13087  
Austin, TX 78711-3087 (512) 239-2160

Facility ID Number (If known)

9940

Owner ID Number (If known)

Tax ID Number (Optional)

Owner Name  
**City of Laredo, Texas**

Mailing Address  
**Post Office Box 579**

City  
**Laredo** State  
**TX** Zip Code  
**78042**

County  
**Webb County**

Contact Person  
**Jose Flores** Telephone  
**(210) 795-2000**

**TYPE OF OWNER**  
 Private or Corporate       State Government  
 Local Government       Federal Government

Location of Records (if off-site)  
**Laredo International Airport**

Address, City, State  
**4719 Maher, Laredo, Texas**

Contact Person  
**Jose Flores** Telephone  
**(210) 795-2000**

Facility Name  
**Airport Fuel Farm**

Physical Address  
**1 Flightline**

City  
**Laredo** State  
**TX** Zip Code  
**78041**

County  
**Webb County**

Contact Person  
**Jose Flores** Telephone  
**(210) 795-2000**

**TYPE OF FACILITY (Mark all that apply)**  
 Retail       Farm or Residential       Wholesale  
 Fleet Refueling       Aircraft Refueling       Indian Land  
 Indus./Chem./Mfr. Pint.  
 Other (please specify) \_\_\_\_\_

Number of aboveground storage tanks at this facility **0** Number of underground storage tanks at this facility **0**

**REASON FOR SUBMITTING FORM (Mark all that apply)**

- Original Form       Ownership Change (effective date \_\_\_\_\_/\_\_\_\_\_/\_\_\_\_\_)       Owner Information Update  
 Facility Information Update       Tank Information Update (please complete back side of form)  
 Other (please specify) \_\_\_\_\_

Does this facility meet financial responsibility requirements for corrective action?  Yes       No

Does this facility meet 3rd party liability requirements?  Yes       No

If yes, please specify mechanism (Mark all that apply)

- Letter of Credit       Trust Fund       Insurance or Risk Retention Group       PST Remediation Fund\*       Standby Trust Fund  
 Guarantee       Financial Test       Surety Bond       Bond Rating Test\*\*       Local Gov. Fund\*\*

\* Only an acceptable mechanism for Financial Assurance until September 1, 2001. \*\* For local government only.

**NOTE: This section must be completed and signed by the Installer. Leave blank if no tank installation activity is involved.**

I certify that the information provided concerning recent installations is true to the best of my belief and knowledge:

Was tank testing completed during and after installation?  Yes       No

Installation Company Name (print) \_\_\_\_\_ Contractor's Registration Number **CRP** \_\_\_\_\_

Installer's Name (print) \_\_\_\_\_ Installer's License Number **ILP** \_\_\_\_\_

Installer Signature \_\_\_\_\_ Date Signed \_\_\_\_\_

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this and all attached documents, and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the submitted information is true, accurate, and complete.

Owner or Owner's Authorized Representative (print) **Brent B. Cusek** Title (print) **Environmental Scientist 4**

Signature **Brent B. Cusek** Date Signed **7/29/97**

Tank ID (e.g. 1, 2, 3 or A, B, C)	6	7		
<b>TANK STATUS</b>				
Tank Installation Date (month/day/year)	01 / 01 / 51	01 / 01 / 51	/ /	/ /
Tank Capacity (gallons)				
1. Currently in Use	1. <input type="checkbox"/>	1. <input type="checkbox"/>	1. <input type="checkbox"/>	1. <input type="checkbox"/>
2. Temporarily Out of Service (date) Emptied (Yes/No)	2. <input type="checkbox"/> <input checked="" type="checkbox"/> Y <input type="checkbox"/> N	2. <input type="checkbox"/> <input checked="" type="checkbox"/> Y <input type="checkbox"/> N	2. <input type="checkbox"/> <input checked="" type="checkbox"/> Y <input type="checkbox"/> N	2. <input type="checkbox"/> <input checked="" type="checkbox"/> Y <input type="checkbox"/> N
3. Permanently Abandoned In-place (date) (must be filled with sand or concrete, etc.)	3. <input type="checkbox"/> <input type="checkbox"/>			
4. Permanently Removed from the Ground (date)	4. 06 / 05 / 97	4. 06 / 05 / 97	4. <input type="checkbox"/> <input type="checkbox"/>	4. <input type="checkbox"/> <input type="checkbox"/>
<b>SUBSTANCE STORED</b>				
1. Gasoline	1. <input type="checkbox"/>	4. <input type="checkbox"/>	1. <input type="checkbox"/>	4. <input type="checkbox"/>
2. Diesel	2. <input type="checkbox"/>	5. <input type="checkbox"/>	2. <input type="checkbox"/>	5. <input type="checkbox"/>
3. Kerosene	3. <input type="checkbox"/>		3. <input type="checkbox"/>	
6. Other Petroleum Substance (please specify)	6. Jet A		6. Jet A	
7. Hazardous Substance	7.			
a. Name of Principal CERCLA Substance	a. _____		a. _____	
b. Chemical Abstract Service (CAS) No.	b. _____		b. _____	
c. Mixture of Hazardous Substances (please specify)	c. _____		c. _____	
8. Mixture of Petroleum & Hazardous Substance	8. <input type="checkbox"/>		8. <input type="checkbox"/>	
9. Other (please specify)	9. _____		9. _____	
<b>UST CONSTRUCTION AND CONTAINMENT</b>				
1. Single Wall	1. <input type="checkbox"/>	Tank Piping	1. <input type="checkbox"/>	Tank Piping
2. Double Wall	2. <input type="checkbox"/>		2. <input type="checkbox"/>	
3. External Jacket System	3. <input type="checkbox"/>		3. <input type="checkbox"/>	
4. Excavation/Trench Liner System	4. <input type="checkbox"/>		4. <input type="checkbox"/>	
5. Piping System:	5. <input type="checkbox"/>		5. <input type="checkbox"/>	
a. Pressurized	a. <input type="checkbox"/>		a. <input type="checkbox"/>	
b. Suction	b. <input type="checkbox"/>		b. <input type="checkbox"/>	
c. Gravity	c. <input type="checkbox"/>		c. <input type="checkbox"/>	
6. Other (please specify)	6. _____		6. _____	
<b>MATERIAL OF CONSTRUCTION</b>				
1. Steel	1. <input type="checkbox"/>	Tank Piping	1. <input type="checkbox"/>	Tank Piping
2. Fiberglass-Reinforced Plastic (FRP)	2. <input type="checkbox"/>		2. <input type="checkbox"/>	
3. Composite (steel w/FRP laminate)	3. <input type="checkbox"/>		3. <input type="checkbox"/>	
4. Concrete	4. <input type="checkbox"/>		4. <input type="checkbox"/>	
5. Other (please specify)	5. _____		5. _____	
<b>RELEASE DETECTION</b> (Mark all that apply) <input checked="" type="checkbox"/>				
1. Vapor Monitoring	1. <input type="checkbox"/>	Tank Piping	1. <input type="checkbox"/>	Tank Piping
2. Groundwater Monitoring	2. <input type="checkbox"/>		2. <input type="checkbox"/>	
3. Monitoring Above Excavation Liner	3. <input type="checkbox"/>		3. <input type="checkbox"/>	
4. Automatic In-Tank Monitoring & Inventory Control	4. <input type="checkbox"/>		4. <input type="checkbox"/>	
5. Interstitial Monitoring for Double Wall UST's	5. <input type="checkbox"/>		5. <input type="checkbox"/>	
6. Tightness Testing	6. <input type="checkbox"/>		6. <input type="checkbox"/>	
7. Inventory Control	7. <input type="checkbox"/>		7. <input type="checkbox"/>	
8. Statistical Inventory Reconciliation (SIR)	8. <input type="checkbox"/>		8. <input type="checkbox"/>	
9. None	9. <input type="checkbox"/>		9. <input type="checkbox"/>	
10. Line Leak Detectors	10. <input type="checkbox"/>		10. <input type="checkbox"/>	
11. Other (please specify)	11. _____		11. _____	
<b>CORROSION PROTECTION</b>				
1. External Dielectric	1. <input type="checkbox"/>	Tank Piping	1. <input type="checkbox"/>	Tank Piping
(Mark all that apply) <input checked="" type="checkbox"/>				
Coating/Laminate/Tape/Wrap	2. <input type="checkbox"/>		2. <input type="checkbox"/>	
2. Cathodic Protection - Installation: <input type="checkbox"/> Factory <input type="checkbox"/> Field	3. <input type="checkbox"/>		3. <input type="checkbox"/>	
3. Composite Tank (steel w/FRP cladding)	4. <input type="checkbox"/>		4. <input type="checkbox"/>	
4. Noncorrodible Material (e.g., FRP)	5. <input type="checkbox"/>		5. <input type="checkbox"/>	
5. Electrical Isolation	6. <input type="checkbox"/>		6. <input type="checkbox"/>	
6. None	7. <input type="checkbox"/>		7. <input type="checkbox"/>	
7. Other (please specify)				
<b>SPILL AND OVERFILL PREVENTION</b>				
1. Tight-Fill Fitting	1. <input type="checkbox"/>		1. <input type="checkbox"/>	
(Mark all that apply) <input checked="" type="checkbox"/>				
2. Spill Container/Liquid-Tight Sump	2. <input type="checkbox"/>		2. <input type="checkbox"/>	
3. Automatic Overfill Device:	3. <input type="checkbox"/>		3. <input type="checkbox"/>	
a. Shut-Off Valve	a. <input type="checkbox"/>		a. <input type="checkbox"/>	
b. Flow Restrictor Valve	b. <input type="checkbox"/>		b. <input type="checkbox"/>	
c. Alarm with a. or b.	c. <input type="checkbox"/>		c. <input type="checkbox"/>	
4. None	4. <input type="checkbox"/>		4. <input type="checkbox"/>	
Indicate VAPOR RECOVERY EQUIPMENT STATUS if gasoline is stored and dispensed at this facility, and if facility is located in an ozone nonattainment area: <input type="checkbox"/> Stage II equipment installation date: _____ <input type="checkbox"/> No Stage II equipment <input type="checkbox"/> Exempt <input type="checkbox"/> Qualified for ISBMG extension				

01997