

**AP - 007**

**STAGE 1 & 2  
WORKPLANS**

**DATE:**

**July 2000**

## STAGE II ABATEMENT PLAN

AP-07

### DARR ANGELL NO. 4 SITE

Lea County, New Mexico

NW ¼ of the NE ¼ of Section 11, Township 15 South, Range 37 East

SW ¼ of the SE ¼ of Section 2, Township 15 South, Range 37 East

Latitude North 33° 02' 17.4"

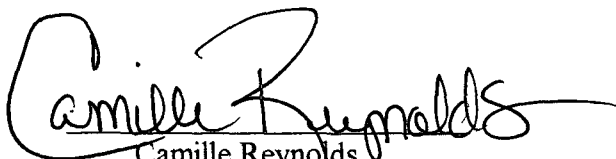
Longitude West 103° 10' 04.4"

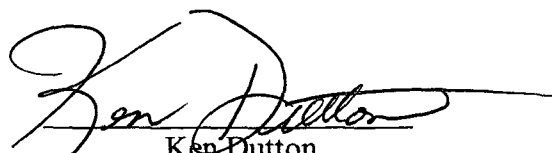
Prepared For:  
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ETGI Project # EO 2075

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July 2002

  
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## 1.0 INTRODUCTION AND SITE BACKGROUND

The site is located approximately 12.5 miles east of the town of Lovington, New Mexico on New Mexico State Highway 82 in the NW  $\frac{1}{4}$  of the NE  $\frac{1}{4}$  of Section 11, Township 15 South, Range 37 East and the SW  $\frac{1}{4}$  of the SE  $\frac{1}{4}$  of Section 2, Township 15 South, Range 37 East. For reference, a site location, site map and groundwater gradient map, are provided as Figures 1, 2, and 3, respectively. The contents of this report are intended to fulfill requirements in accordance with Rule 19.E (4) of the New Mexico Administrative Code (NMAC). On November 9, 1999, EOTT Energy Corp. (EOTT) personnel discovered that a release of crude oil had occurred from its pipeline (Darr Angell # 3). The on-site crude oil release was attributed to internal corrosion of the 8-inch steel pipeline operated by EOTT. As determined from the release report, an estimated 10 barrels of crude oil was released at the site, with no crude oil recovered. A subsequent release occurred on February 2, 2001, EOTT personnel discovered that a release of crude oil had occurred from its pipeline near the previously reported release area (Darr Angell #4). For reporting purposes these two sites while occurring in separate releases will be referred to as Darr Angell #4. The on-site crude oil release was attributed to structural failure due to internal corrosion of the 8-inch steel pipeline operated by EOTT. The C-141 leak report is included in Appendix A. As determined from the release report, an estimated 150 barrels of crude oil was released at the site with 95 barrels of crude oil recovered from the site. The leak was reported to the NMOCD on February 2, 2001. Prior to ETGI involvement, the line was repaired and an estimated 2,364 cubic yards of impacted soil was excavated and stock piled on an impermeable plastic barrier. An estimated 864 cubic yards of this soil was transported and disposed of at the Goo-Yea Landfarm.

A total of 13 groundwater monitor wells and 6 phase separated hydrocarbon (PSH) recovery wells are currently on-site. Three of the recovery wells, RW-1, RW-2, and RW-4, are currently involved with product recovery and are connected to an automated product recovery system (Figure 2). A one-mile water well search of the area was conducted and is included in Appendix B. Environmental Technology Group, Inc. (ETGI) is submitting this Stage II Abatement Plan to propose additional response actions designed to complete removal of PSH from the groundwater and achieve site closure as set forth by the State of New Mexico under NMAC Rule 19 standards. The regulatory basis for this Stage II Abatement Plan is NMAC Rule 19 and the NMOCD guidance document Guidelines for Remediation of Leaks, Spills, and Releases, (August 1993).

A review of the data existing for this site indicated the following:

- The soil column consisted primarily of loose to packed sand with caliche distributed intermittently and irregularly across the section; a discontinuous layer of well-indurated sandstone with calcareous cement occurs at depths of approximately 15 to 36 feet below grade surface (bgs) across the site;
- Groundwater at the site occurs at a depth of approximately 61 to 65 feet bgs as measured from the top of the well casings (Table 1);
- Soil impacted above regulatory levels was present in 2 soil borings, 6 recovery wells, 4 monitor wells, and 7 geoprobe locations with the highest contaminant level detected



at recovery well RW-3 (at a depth of approximately 28 to 30 feet bgs as indicated in Table 2)

- The groundwater gradient at the site as measured during the most current groundwater monitoring event is to the east-southeast at approximately 0.002 feet per foot;
- Dissolved phase hydrocarbon constituents were detected in 7 monitor wells and 1 recovery well, four of which (monitor wells MW-3, MW-8, MW-10, and MW-11) were above regulatory standards for benzene during the most current groundwater monitoring event as shown in Table 3, and;
- During the last groundwater monitoring event PSH was detected in 4 of the recovery wells RW-1, RW-2, RW-4, and RW-6 and monitor well MW-6, with the greatest thickness detected in recovery well RW-6 as indicated on Table 1. Gauging was not conducted on recovery well RW-3 due to inaccessibility created by site excavation activities.

## **2.0 SUMMARY OF RECENT FIELD ACTIVITIES**

On April 18, 2001 ETGI completed a total of 49 geoprobe borings to determine the lateral extent of subsurface impacts. The geoprobe locations are depicted on Figure 2 and the boring logs are provided as Appendix C. As indicated on the figure, the geoprobe borings were positioned to define the lateral extents of the shallow subsurface impacted area. These borings were completed to a maximum depth of 4 feet bgs. Of the 49 borings seven (GP-1, GP-17, GP-18, GP-19, GP-20, GP-39 and GP-44) were completed to a depth of 4 feet bgs, the remaining borings were completed to the point of physical refusal due to the subsurface presence of caliche. Continuous soil samples were collected during the installation of the geoprobe borings and field-screened with a Photoionization detector (PID) calibrated to a 100 parts per million (ppm) isobutylene standard. Each sample collected was visually inspected and described as to soil type, grain size, sorting characteristics, odor and staining present. The soil sample collected from geoprobe boring GP-45 exhibited an elevated PID reading of 1,064 parts per million (ppm) with moderate staining and odor. The soil sample collected from geoprobe boring GP-48 exhibited a slight odor with no visual staining or elevated PID reading. The soil samples collected from geoprobe borings GP-1 through GP-9, GP-11 through GP-14, GP-17, GP-18, GP-21, GP-25, GP-26, GP-27, GP-28, GP-30, GP-31, GP-35, GP-43, and GP-46 exhibited elevated PID readings with no visual signs of staining or olfactory evidence. The soil samples collected from the remaining geoprobe borings exhibited no elevated PID readings, visual staining or olfactory evidence. Following completion of each geoprobe boring, the boring was filled to the surface with bentonite pellets and activated with water as required by NMOCD guidelines. Selected geoprobe soil samples obtained during the initial site characterization activities were analyzed as required by the NMOCD *Guidelines for Remediation of Leaks, Spills and Releases*, (NMOCD, 1993).

On May 21, 2001 ETGI supervised the excavation of stained soil beginning in the area of recovery well RW-3. The excavation was extended outward, utilizing the analytical results from the geoprobe borings, until headspace readings from wall samples registered less than or equal to 10 ppm on a PID as depicted on Figure 2. Approximately 6,650 cubic yards of soil was generated during excavation activities. This soil and the 1,500 cubic yards of stockpiled soil were shredded and combined with nutrients, and stockpiled on-site. The lower limit of the excavation coincides with a very hard layer of caliche. Attempts to continue excavation

with a track hoe through this lower boundary layer were unsuccessful. As indicated in the "Request to Backfill Excavation" letter to the NMOCD dated March 12, 2002, the excavation was partially backfilled utilizing caliche rock that had been separated during the screening and shredding operation.

ETGI completed ten additional monitor wells, two recovery wells and one soil boring to further delineate the vertical and lateral extent of subsurface impact. Monitor/ recovery well and soil boring locations are depicted on Figure 2 and the boring logs are provided as Appendix C. These monitor and recovery wells were completed to a maximum depth of approximately 67 feet bgs; groundwater was encountered at a depth of approximately 55 to 58 feet bgs. Soil samples were collected at five-foot intervals utilizing either a split spoon sampling tool or a grab sampling technique. During installation of the monitor/recovery wells and soil boring samples were field-screened with a PID calibrated to 100 ppm isobutylene standard. Each sample collected was visually inspected and described as to soil type, grain size, sorting characteristics, odor and staining present. Selected soil and groundwater samples obtained during these field activities were analyzed as required by the NMOCD *Guidelines for Remediation of Leaks, Spills and Releases*, (NMOCD, 1993). All monitor/recovery wells and soil boring were completed so as to comply with all applicable NMOCD requirements regarding groundwater monitor wells and soil borings.

All soil samples submitted to the laboratory were analyzed for total petroleum hydrocarbons-gasoline range organics/diesel range organics (TPH-GRO/DRO) utilizing EPA Method SW 846-8015M, any sample producing a field reading over 100 ppm for Volatile Organic Compounds (VOC) with the PID was also tested for Benzene, Toluene, Ethylbenzene and total Xylenes (BTEX), utilizing EPA Method SW 846-8021B/5030. All groundwater samples were analyzed for BTEX constituent concentrations using EPA Methods 8021M/5030; poly aromatic hydrocarbons (PAH) using EPA Method 8270, total dissolved solids (TDS) using EPA Method 160.1, anions and cations using EPA Methods 375.4, 310.1 and 325.2; and RCRA Metals using Method 6010 and 200 series. Results of laboratory analysis of the soil and groundwater samples are summarized in Tables 2 and 3, respectively, and the laboratory reports are provided as Appendix D.

The groundwater monitor and recovery wells were developed on August 20, 2001, utilizing an electric Grundfos submersible pump. The development groundwater was pumped into a 300 gallon, trailer mounted, polystyrene tank and disposed of by Pate trucking, Hobbs, New Mexico or Vista Trucking of Eunice, New Mexico utilizing a licensed disposal facility (OCD AO SWD-730). The groundwater monitor and recovery wells were gauged and sampled on August 21, 2001.

ETGI has conducted quarterly groundwater monitoring and annual reporting at the site since July 2000. The automated PSH recovery system on-site is monitored on a weekly basis for scheduled operation and maintenance (O&M) tasks including recovery well and tank gauging, compressor condensate drainage, hose and fitting inspection and inspection of the general site appearance. The recovered product is evacuated as needed by ETGI field technicians, transported to the TNM 97-04 release site and transferred to a high 500-gallon tank for temporary storage. The PSH is then reintroduced into the EOTT transportation system. As of

June 10, 2002, the on-site automated recovery system has recovered approximately 1,654 gallons of PSH.

### **3.0 ABATEMENT OPTIONS**

#### **3.1 Soil Abatement Options**

Soil impacted above the applicable NMOCD regulatory standards at this site were identified at depth at the following locations: RW-1 (58'-60'), RW-2 (58'-60'), RW-3 (0'-35', 58'-65'), RW-4 (43'-65'), RW-5 (50'-67'), RW-6 (50'-67'), SB-7 (58'-60'), SB-9 (48'-50' and 58'-60'), MW-4 (35'-37'), MW-6 (60'-62'), MW-7 (55'-57'), MW-8 (25'-42'), GP-006 (0-18"), GP-016 (0-48"), GP-045 (0-4"), GP-46 (0-3"), GP-047 (0-12"), GP-048 (0-12"), and GP-49 (0-12") as indicated on Table 2. ETGI supervised the excavation of stained soil beginning in the area of recovery well RW-3 and extending outward utilizing the analytical results of the geoprobe soil samples until headspace readings from wall samples registered less than or equal to 10 parts per million on a PID. Approximately 6,650 cubic yards of soil was generated during excavation activities. This soil and the 1,500 cubic yards of stockpiled soil were shredded combined with nutrients and stockpiled on-site. The lower limit of the excavation coincides with a very hard layer of caliche. Attempts to continue excavation with a track hoe through this lower boundary layer were unsuccessful. As indicated in the "Request to Backfill Excavation" letter to the NMOCD dated March 12, 2002, (Appendix E) the excavation was partially backfilled utilizing caliche rock that had been separated during the screening and shredding operation. Unimpacted topsoil will be purchased from the landowner and utilized to complete the excavation backfilling process. Two of the groundwater remedial technologies addressed in Section 3.2 of this Abatement Plan will also affect impacted soil located at depth on-site.

Abatement of the excavated soil at the site is technically feasible using the following technologies:

- Off-site Disposal;
- On-site Land Farming.

The first available abatement technology considered for the excavated soil at this site is off-site disposal. There is approximately 8,150 cubic yards of excavated soil at this site. Given the site location and costs associated with transportation and disposal at an NMOCD approved land farm, it is estimated that the relative cost of this option makes it a non-viable solution for the excavated soil.

The second option considered for abatement of the excavated soil is on-site land farming. This option would consist of treating the soil ex-situ on-site until confirmation sampling indicated that remedial activities have achieved clean-up goals as determined for this site. Land farming in conjunction with nutrient enhancement activities will achieve site clean-up goals in a reasonable time frame. This treatment has proven successful when utilized at sites impacted by similar hydrocarbon releases. This is a viable option for the excavated soil stockpiled at this site.

### 3.2 Groundwater Abatement Options

The site is currently impacted by PSH in six of the on-site monitor/recovery wells, RW-1, RW-2, RW-3, RW-4, RW-6, and MW-6 (Figure 4). Recovery wells RW-1, RW-2, and RW-4 contain PSH skimming pumps that are connected to an automated product recovery system. A measurable amount of PSH was recorded in recovery well RW-6 during the third and fourth quarterly monitoring events conducted in 2001 and the first and second quarterly monitoring events in 2002. Measurable amounts of PSH were recorded in monitor well MW-6 during the first and second quarterly monitoring events conducted in 2002. PSH skimming pumps will be installed into these wells and incorporated into the existing recovery system (Figure 2). Recovery well RW-3 is currently inaccessible due to site excavation activities. Upon completion of excavation backfilling activities, recovery well RW-3 will be fitted with a PSH skimming pump and connected to the automated product recovery system. While PSH is being recovered from the site additional groundwater remediation technologies will not be enacted. Aquifer testing methods commonly utilized at NMOCD regulated sites, slug testing and steady state draw down pumping tests, cannot be conducted in the presence of PSH. Dissolved phase benzene concentrations exceeding NMOCD regulatory standards exist in the areas of groundwater monitor wells MW-3, MW-8, MW-10, and MW-11 (Figure 5). ETGI will install four additional monitor wells at the site to further delineate the dissolved phase benzene plume in the groundwater, the locations of the additional monitor wells are indicated on Figure 2. Once PSH recovery action has been completed on-site, groundwater sampling for BTEX constituents will begin or resume at these groundwater monitoring locations.

An accurate estimate of the hydraulic properties of the dissolved phase contaminated aquifer materials will require completion of a 24-hour steady state draw down test. Analysis of the data gathered from aquifer testing will enable reliable estimates of transmissive and storage properties needed as modeling parameters used to design and test groundwater treatment alternatives at the site. In order to assess the effectiveness of potential bioremediation alternatives at the site, sampling and analysis of the indigenous microbe colonies present in both the unsaturated and saturated zones will also be conducted.

Upon completion of PSH recovery action and aquifer testing, abatement of the impacted groundwater on-site is technically feasible using the following technologies:

- Groundwater Pump and Treat System;
- In-Situ Groundwater Bioremediation and Soil Vapor Extraction;
- Air Sparging and Soil Vapor Extraction, and;
- Human-Health Based Risk Assessment.

The pump and treat technology recommended at this site would employ an air stripping system to remove dissolved BTEX constituents from the groundwater. Hydraulic conductivity values expected from the loose, unconsolidated sands found in the area should support a relatively expanded range of groundwater withdrawal rates. As the project matures, withdrawal rates would be varied in response to shifting contaminants of concern (COC) concentration foci in an effort to maximize system utilization. The primary exclusion factors concerning this type of treatment technology are the extended length of system operation time

required to achieve both hydraulic control and site cleanup goals and the large quantities of effluent produced requiring disposal or possible treatment and subsequent injection back into the aquifer materials. Aerated effluent water would be injected back into the formation in up gradient locations to enhance aquifer-flushing action. The injected water would also carry oxygen to the subsurface, promoting biodegradation. Also, a condition referred to as rebound frequently occurs at pump and treat sites following system shut down. The process of obtaining hydraulic control at a site utilizing a pump and treat system necessarily entails a lowering of the water table on site. Hydrocarbon materials remain bound to the soil as the groundwater elevations are lowered. When groundwater levels recover following system shut down the residual hydrocarbon materials trapped in the soil are liberated by the rising water levels and reimpact the site groundwater.

The second option for remediation of impacted groundwater at this site involves the combination of two currently accepted treatment technologies. In-situ bioremediation (ISBIO) has been shown to be an effective groundwater remediation technology for the full range of dissolved phase petroleum hydrocarbons identified on-site. To increase the efficiency of site groundwater remediation, the ISBIO technology will be combined with soil vapor extraction technology (SVE). Utilizing these remedial technologies simultaneously will treat petroleum constituents in the capillary fringe and saturated zones. SVE treatment is a proven technology for BTEX constituents that can be reliably utilized at this site.

With a typical ISBIO remediation system, groundwater is extracted using one or more wells and, if necessary, treated to remove residual dissolved constituents. The treated groundwater is then mixed with an electron acceptor (oxygen and/or nitrogen) and nutrients, and other constituents if required, and re-injected upgradient of or within the contaminant source area. Infiltration galleries or injection wells may be used as re-injection methods. In an ideal configuration, a "closed-loop" system would be established. All water extracted would be re-injected without treatment and all remediation would occur in-situ. This ideal system would continuously circulate the water until cleanup levels have been achieved. Groundwater monitor wells in the area would be used to verify the success of the treatment process.

Data obtained from the 24-hour steady state draw down test will be used to determine the permeability, hydraulic conductivity, storage coefficient and transmissivity of the impacted aquifer materials. An accurate estimate of these parameters is necessary to estimate groundwater characteristics utilizing modeling routines. These characteristics will also be used to define the distribution of electron acceptors (oxygen and/or nitrogen) and nutrients introduced to the effected aquifer. Additional parameters required to determine if ISBIO technology is applicable at the site are the type and relative abundance of indigenous microorganisms, total dissolved solids, total organic carbon, biological oxygen demand, carbon dioxide and the pH of on-site groundwater. A review of field data obtained during quarterly groundwater sampling events on-site will be conducted in order to determine the relative pH of the groundwater.

If analysis of the steady-state draw down test and additional water quality data indicate that ISBIO and SVE technologies are appropriate at this site, pilot testing of both technologies will be conducted in the vicinity of the highest COC concentrations. Skid mounted treatment units will be employed during the pilot testing. If possible, existing groundwater monitoring wells

will be utilized as injection wells. All of the monitoring wells currently installed on-site are fitted with 2-inch Schedule 40 PVC well materials. Because of the increased annular capacity required by SVE extraction wells, additional wells will be installed and fitted with 4-inch schedule 40 PVC well materials prior to pilot testing. Location, spacing and depth parameters of the extraction wells will be determined from analysis of the draw down and pilot testing data. SVE extraction wells installed in this area will be used to determine/demonstrate the calculated and measured radius of influence of extraction wells in this substrate. Groundwater extraction rates, electron acceptor and nutrient injection rates and wellhead vacuum will be closely monitored, analyzed and varied over the duration of the test. Depending upon results achieved it is expected that the duration of the pilot testing program will be approximately 3 to 6 months. Analysis of the pilot testing results will be used to design and subsequently install a remediation system utilizing the ISBIO and SVE technologies. Installation of injection and extraction wells will be done incrementally to optimize the configuration. Details of system operation and maintenance requirements will be determined in the final system design process. The primary exclusion factor associated with this technology on-site is the impermeable sandstone unit located approximately 26 to 36 feet bgs throughout the site area. This unit could restrict vertical soil vapor movement within the vadose zone, promoting accumulation and lateral movement of vapor phase BTEX constituents that may have migrated through a zone of low or incomplete microbial action. Vapor monitoring and extraction wells could be positioned at this depth but the possibility of off-site migration of vapor phase BTEX constituents would exist.

The third remedial technology considered for this site is the utilization of the combination of Air Sparging and Vacuum/Vapor Extraction technologies (AS/VE). Air Sparging treats the groundwater by stripping or volatilizing the BTEX constituents out of the dissolved phase and also by increasing in-situ biodegradation by the addition of oxygen to the impacted groundwater. As BTEX constituents are liberated from the aqueous phase and enter the gas phase, they migrate to the capillary fringe and subsequently the vadose zone. Vacuum/Vapor Extraction wells installed at these depths induce pressure gradients in the vadose zone, capturing the gaseous phase BTEX constituents for removal and treatment on the surface. A long-term groundwater monitoring program would be conducted to monitor flux of dissolved phase BTEX constituents during site AS/VE treatment.

Air sparging injection wells and vapor extraction wells will be positioned as indicated on Figure 6. Installation of injection and extraction wells will be done incrementally to optimize the configuration. When possible, existing groundwater monitoring wells and/or recovery wells will be converted to either sparging wells or vapor extraction wells. The 2-inch, schedule 40 PVC injection wells will penetrate the saturated zone with approximately 10 to 15 feet of fully immersed, 0.020-inch slotted pipe. Air compressors will be utilized to generate the required air pressure for injection purposes. The vapor recovery (VR) well field design is analogous to that of the injection well configuration with the exception that the terminus of these wells will be located just above the approximate capillary fringe. Down-hole construction details of the VR wells includes an approximate 20 foot length of 4-inch, 0.020-inch slotted, schedule 40 PVC pipe connected to 4-inch PVC riser piping to the surface. On the surface the VR wells will be piped to an activated carbon filtering system for effluent gas treatment prior to atmospheric discharge. A moisture knock out pot will be installed down line of the effluent piping manifold to prevent moisture from entering the carbon

treatment unit. Surface piping will include effluent sampling ports, temperature gauges and flow shut-off valves on both sides of the carbon unit. The primary exclusion factor associated with this technology is similar to that of the ISBIO/SVE technology discussed above. The concentration of BTEX constituents migrating vertically in the vapor phase following sparging would be considerably higher than the concentration resulting from ISBIO technology. Possible accumulation and lateral movement of this concentrated vapor phase plume could promote off-site migration of the BTEX plume or possibly become a secondary source of shallow soil contamination.

The fourth remedial technology selected to meet NMOCD regulatory cleanup standards at this site is utilization of a Human-Health Based Risk Assessment technology. A site-specific approach will be employed to assess the probability of likely human exposure pathways with evaluations of the individual constituents of TPH concentrations present in the soil and BTEX constituents present in the groundwater. Analytical fate-and-transport modeling will provide a means of estimating exposure concentrations and developing risk-based soil and groundwater remediation standards. Under ASTM E-1739 "Standard Guide for Risk-Based Corrective Action Applied at Petroleum Release Sites," modeling is recommended as a conservative first step under Tiers 1 and 2 of the site evaluation process, prior to use of more complex numerical modeling methods under Tier 3.

In order to prevent subsequent unintended or accidental human exposure to petroleum hydrocarbon constituents remaining on-site following a risk based scenario, the specific site area will be deed restricted preventing future consideration of development or improvements in the county clerk office, Lovington, Lea County, New Mexico.

#### **4.0 SUMMARY AND CONCLUSIONS**

A total of 13 groundwater monitoring wells and 6 PSH recovery wells are currently installed on-site. Three of the recovery wells, RW-1, RW-2, and RW-4, have been fitted with PSH skimming pumps and are connected to an automated product recovery system. Recovery wells RW-5, RW-6 and monitoring well MW-6 will be fitted with PSH skimming pumps and incorporated into the existing automated product recovery system. Four groundwater monitor wells, MW-3, MW-8, MW-10, and MW-11, are currently impacted with a dissolved phase benzene concentration exceeding NMOCD regulatory standards. ETGI is submitting this Stage II Abatement Plan to provide additional response actions designed to complete removal of PSH from the aquifer and to achieve site closure as set forth by the State of New Mexico under NMAC Rule 19 standards.

ETGI recommends the removal of PSH on the groundwater at the site continue. At this time the PSH is being removed utilizing an automated PSH recovery system. Upon completion of the removal of PSH on the groundwater, the remediation of dissolved phase constituents in the groundwater will be addressed.

In order to abate the dissolved phase constituents to applicable NMOCD standards, ETGI recommends an Air Sparging and Vapor Extraction System be installed at the site. This system as described in Section 3.2 of this report will be utilized to reduce the concentrations of dissolved phase constituents in the groundwater and soils in the vadose zone to acceptable

levels as defined by the NMOCD *Guidelines for Remediation of Leaks, Spills and Releases*, dated August 1993.

Soils impacted above the applicable NMOCD regulatory standard for TPH exist at depths ranging from 25 feet bgs to 58 feet bgs at the site. These soils underlie the hard caliche layer found at the former excavation bottom and the discontinuous but indurated sand layer that occurs at depths ranging from 15 feet bgs to 36 feet bgs across the site; therefore no further excavation is planned for this site. An estimated 8,150 cubic yards of soil impacted above NMOCD regulatory standards have been excavated at this site. The soil was shredded, blended, nutrient enhancements were added and stockpiled on-site. As indicated in the "Request to Backfill Excavation" letter to the NMOCD dated March 12, 2002, the excavation was partially backfilled utilizing caliche rock that had been separated during the screening and shredding process. Unimpacted topsoil will be purchased from the landowner and utilized to complete the excavation backfilling process.

Utilization of on-site land farming is recommended for the stockpiled soil at this site. The impacted soil will be blended, nutrients added and spread on-site. Land farming and nutrient enhancement activities will continue until confirmation sampling indicates NMOCD regulatory standards has been achieved.

## **5.0 QA/QC PROCEDURES**

### **5.1 Soil Sampling**

Samples of subsurface soils were obtained utilizing either a split spoon sampler or grab sampling technique. Representative soil samples were divided into two separate portions using clean, disposable gloves and clean sampling tools. One portion of the soil sample was placed in a disposable sample bag. The bag was labeled and sealed for headspace analysis using a PID calibrated to a 100-ppm isobutylene standard. Each sample was allowed to volatilize for approximately thirty minutes at ambient temperature prior to conducting the analysis.

The other portion of the soil sample was placed in a sterile glass container equipped with a Teflon-lined lid furnished by the analytical laboratory. The container was filled to capacity to limit the amount of headspace present. Each container was labeled and placed on ice in an insulated cooler. Upon selection of samples for analysis, the cooler was sealed for shipment to the laboratory. Proper chain-of-custody documentation was maintained throughout the sampling process.

Soil samples were delivered to Environmental Lab of Texas, in Odessa, Texas and analyzed within fourteen days following the collection date for BTEX and TPH analyses using the methods described below:

- BTEX concentrations in accordance with EPA SW 846 Method 8021B, 5030, and;
- TPH concentrations in accordance with EPA SW 846 Method 8015M GRO/DRO.



## **5.2 Groundwater Sampling**

After purging the wells, groundwater samples were collected with a disposable Teflon sampler and polyethylene line by personnel wearing clean, disposable gloves. Groundwater sample containers were filled in the order of decreasing volatilization sensitivity (i.e., BTEX containers will be filled first and PAH containers second).

Groundwater samples collected for BTEX analysis were placed in 40 ml glass VOA vials equipped with Teflon lined caps, which had been provided by the analytical laboratory. The vials will be filled to a positive meniscus, sealed, and visually checked to ensure the absence of air bubbles.

The filled containers were labeled and placed on ice in an insulated cooler. The cooler was sealed for transportation to the analytical laboratory. Proper chain-of-custody documentation was maintained throughout the sampling process.

The groundwater samples were analyzed as follows:

- BTEX constituents using EPA Method SW 846-8260;
- Total Dissolved Solids (TDS) using EPA Method SW 846-160.1;
- N.M. Water Quality Control Commission Metals using EPA Method SW 846-6010, 200.7;
- Chlorides using EPA Methods SW 846-325.2 & 9251, SM2320, 375.4 & 9038, and;
- Cations and Anions using EPA Methods 375.4, 325.3 and 310

## **5.3 Decontamination Of Equipment**

Cleaning of drilling equipment was the responsibility of the drilling company. In general, the cleaning procedures consisted of using high-pressure steam to wash the drilling and sampling equipment prior to drilling and prior to starting each hole. Prior to use, the sampling equipment was cleaned with Liqui-Nox® detergent and rinsed with distilled water.

## **5.4 Laboratory Protocol**

The laboratory was responsible for proper QA/QC procedures after signing the chain-of-custody form. These procedures were either transmitted with the laboratory reports or are on file at the laboratory.

## **6.0 LIMITATIONS**

Environmental Technology Group, Inc. has prepared this Stage II Abatement Plan to the best of its ability. No other warranty, expressed or implied, is made or intended.

Environmental Technology Group, Inc. has examined and relied upon documents referenced in the report and has relied on oral statements made by certain individuals. Environmental Technology Group, Inc. has not conducted an independent examination of the facts contained

in referenced materials and statements. We have presumed the genuineness of the documents and that the information provided in documents or statements is true and accurate. Environmental Technology Group, Inc. has prepared this report in a professional manner, using the degree of skill and care exercised by similar environmental consultants. Environmental Technology Group, Inc. also notes that the facts and conditions referenced in this report may change over time and the conclusions and recommendations set forth herein are applicable only to the facts and conditions as described at the time of this report.

This report has been prepared for the benefit of EOTT. The information contained in this report, including all exhibits and attachments, may not be used by any other party without the express consent of Environmental Technology Group, Inc. and/or EOTT.

## 7.0 REFERENCES

Guidelines for Remediation of Leaks, Spills and Releases; August 1993 (NMOCD, 1993);

Title 19; New Mexico Administrative Code 15.A.19;

Ground-Water Report 6, Geology and Ground-Water Conditions in Southern Lea County, New Mexico; Alexander Nicholson, Jr. and Alfred Clebsch Jr.; United States Geological Survey, New Mexico State Bureau of Mines and Mineral Resources, 1961;

Ground Water Contamination, Transport and Remediation, 2 ed.; Bedient, Rifai and Newell, Prentice Hall, 1999;

Practical Techniques for Groundwater and Soil Remediation; Evan K. Nyer, CRC Press LLC, 1993;

Remediation of Petroleum Contaminated Soils; Eve-Riser-Roberts, Lewis Publishers, CRC Press, 1998, and

Parameter Estimation Guidelines for Risk-Based Corrective Action (RBCA) Modeling; Conner, Newell and Malander, Groundwater Services, Inc.; NGWA Petroleum Hydrocarbons Conference, Houston, Texas, November 1996.

## 8.0 DISTRIBUTION

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Quality Control Reviewer

## TABLES

TABLE 1

GROUND WATER ELEVATION  
HISTORICAL TABLEEOTT ENERGY CORPORATION  
DARR ANGELL 4  
LEA COUNTY, NEW MEXICO  
ETGI PROJECT # EO 2075

| WELL<br>NUMBER | DATE<br>MEASURED | CASING<br>WELL<br>ELEVATION | DEPTH TO<br>PRODUCT | DEPTH TO<br>WATER | PSH<br>THICKNESS | CORRECTED<br>GROUND WATER<br>ELEVATION |
|----------------|------------------|-----------------------------|---------------------|-------------------|------------------|----------------------------------------|
| MW - 1         | 07/31/00         | 3,800.66                    | -                   | 64.55             | 0.00             | 3,736.11                               |
|                | 09/13/00         | 3,800.66                    | -                   | 64.65             | 0.00             | 3,736.01                               |
|                | 11/15/00         | 3,800.66                    | -                   | 64.76             | 0.00             | 3,735.90                               |
|                | 02/14/01         | 3,800.66                    | -                   | 64.82             | 0.00             | 3,735.84                               |
|                | 04/24/01         | 3,800.66                    | -                   | 64.92             | 0.00             | 3,735.74                               |
|                | 08/21/01         | 3,800.66                    | -                   | 65.11             | 0.00             | 3,735.55                               |
|                | 10/30/01         | 3,800.66                    | -                   | 65.22             | 0.00             | 3,735.44                               |
|                | 02/18/02         | 3,800.66                    | -                   | 65.39             | 0.00             | 3,735.27                               |
|                | 06/19/02         | 3,800.66                    | -                   | 65.59             | 0.00             | 3,735.07                               |
| MW - 2         | 07/31/00         | 3,796.33                    | -                   | 60.55             | 0.00             | 3,735.78                               |
|                | 09/13/00         | 3,796.33                    | -                   | 60.66             | 0.00             | 3,735.67                               |
|                | 11/15/00         | 3,796.33                    | -                   | 60.76             | 0.00             | 3,735.57                               |
|                | 02/14/01         | 3,796.33                    | -                   | 60.74             | 0.00             | 3,735.59                               |
|                | 04/24/01         | 3,796.33                    | -                   | 60.90             | 0.00             | 3,735.43                               |
|                | 08/21/01         | 3,796.33                    | -                   | 61.10             | 0.00             | 3,735.23                               |
|                | 10/30/01         | 3,796.33                    | -                   | 61.20             | 0.00             | 3,735.13                               |
|                | 02/18/02         | 3,796.33                    | -                   | 61.31             | 0.00             | 3,735.02                               |
|                | 06/19/02         | 3,796.33                    | -                   | 61.57             | 0.00             | 3,734.76                               |
| MW - 3         | 07/31/00         | 3,798.10                    | -                   | 62.53             | 0.00             | 3,735.57                               |
|                | 09/13/00         | 3,798.10                    | -                   | 62.63             | 0.00             | 3,735.47                               |
|                | 11/15/00         | 3,798.10                    | -                   | 62.72             | 0.00             | 3,735.38                               |
|                | 02/14/01         | 3,798.10                    | -                   | 62.72             | 0.00             | 3,735.38                               |
|                | 04/24/01         | 3,798.10                    | -                   | 62.88             | 0.00             | 3,735.22                               |
|                | 08/21/01         | 3,798.10                    | -                   | 63.10             | 0.00             | 3,735.00                               |
|                | 10/30/01         | 3,798.10                    | -                   | 63.20             | 0.00             | 3,734.90                               |
|                | 02/18/02         | 3,798.10                    | -                   | 63.31             | 0.00             | 3,734.79                               |
|                | 06/19/02         | 3,798.10                    | -                   | 63.54             | 0.00             | 3,734.56                               |
| MW - 4         | 08/21/01         | 3,797.75                    | -                   | 62.34             | 0.00             | 3,735.41                               |
|                | 10/30/01         | 3,797.75                    | -                   | 62.45             | 0.00             | 3,735.30                               |
|                | 02/18/02         | 3,797.75                    | -                   | 62.63             | 0.00             | 3,735.12                               |
|                | 06/19/02         | 3,797.75                    | -                   | 62.81             | 0.00             | 3,734.94                               |
|                |                  |                             |                     |                   |                  |                                        |

TABLE 1 (CONT'D)

| WELL NUMBER | DATE MEASURED | CASING WELL ELEVATION | DEPTH TO PRODUCT | DEPTH TO WATER | PSH THICKNESS | CORRECTED GROUND WATER ELEVATION |
|-------------|---------------|-----------------------|------------------|----------------|---------------|----------------------------------|
| MW - 5      | 08/21/01      | 3,797.23              | -                | 61.87          | 0.00          | 3,735.36                         |
|             | 10/30/01      | 3,797.23              | -                | 61.86          | 0.00          | 3,735.37                         |
|             | 02/18/02      | 3,797.23              | -                | 62.03          | 0.00          | 3,735.20                         |
|             | 06/19/02      | 3,797.23              | -                | 62.21          | 0.00          | 3,735.02                         |
| MW - 6      | 08/21/01      | 3,796.51              | -                | 60.96          | 0.00          | 3,735.55                         |
|             | 10/30/01      | 3,796.51              | -                | 61.11          | 0.00          | 3,735.40                         |
|             | 02/18/02      | 3,796.51              | 61.28            | 61.47          | 0.19          | 3,735.20                         |
|             | 06/19/02      | 3,796.51              | 61.44            | 61.54          | 0.21          | 3,735.15                         |
| MW - 7      | 08/21/01      | 3,796.16              | -                | 60.60          | 0.00          | 3,735.56                         |
|             | 10/30/01      | 3,796.16              | -                | 60.73          | 0.00          | 3,735.43                         |
|             | 02/18/02      | 3,796.16              | -                | 60.83          | 0.00          | 3,735.33                         |
|             | 06/19/02      | 3,796.16              | -                | 61.08          | 0.00          | 3,735.08                         |
| MW - 8      | 08/21/01      | 3,795.89              | -                | 60.58          | 0.00          | 3,735.31                         |
|             | 10/30/01      | 3,795.89              | -                | 60.65          | 0.00          | 3,735.24                         |
|             | 02/18/02      | 3,795.89              | -                | 60.77          | 0.00          | 3,735.12                         |
|             | 06/19/02      | 3,795.89              | -                | 61.05          | 0.00          | 3,734.84                         |
| MW - 9      | 08/21/01      | 3,795.66              | -                | 60.68          | 0.00          | 3,734.98                         |
|             | 10/30/01      | 3,795.66              | -                | 60.80          | 0.00          | 3,734.86                         |
|             | 02/18/02      | 3,795.66              | -                | 60.92          | 0.00          | 3,734.74                         |
|             | 06/19/02      | 3,795.66              | -                | 61.15          | 0.00          | 3,734.51                         |
| MW - 10     | 08/21/01      | 3,796.23              | -                | 61.35          | 0.00          | 3,734.88                         |
|             | 10/30/01      | 3,796.23              | -                | 61.51          | 0.00          | 3,734.72                         |
|             | 02/18/02      | 3,796.23              | -                | 61.61          | 0.00          | 3,734.62                         |
|             | 06/19/02      | 3,796.23              | -                | 61.84          | 0.00          | 3,734.39                         |
| MW - 11     | 08/21/01      | 3,796.58              | -                | 61.80          | 0.00          | 3,734.78                         |
|             | 10/30/01      | 3,796.58              | -                | 61.92          | 0.00          | 3,734.66                         |
|             | 02/18/02      | 3,796.58              | -                | 62.08          | 0.00          | 3,734.50                         |
|             | 06/19/02      | 3,796.58              | -                | 62.28          | 0.00          | 3,734.30                         |
| MW - 12     | 08/21/01      | 3,798.03              | -                | 63.04          | 0.00          | 3,734.99                         |
|             | 10/30/01      | 3,798.03              | -                | 63.20          | 0.00          | 3,734.83                         |
|             | 02/18/02      | 3,798.03              | -                | 63.28          | 0.00          | 3,734.75                         |
|             | 06/19/02      | 3,798.03              | -                | 63.52          | 0.00          | 3,734.51                         |
| MW - 13     | 08/21/01      | 3,799.65              | -                | 64.51          | 0.00          | 3,735.14                         |
|             | 10/30/01      | 3,799.65              | -                | 64.63          | 0.00          | 3,735.02                         |
|             | 02/18/02      | 3,799.65              | -                | 64.73          | 0.00          | 3,734.92                         |
|             | 06/19/02      | 3,799.65              | -                | 64.97          | 0.00          | 3,734.68                         |

TABLE 1 (CONT'D)

| WELL NUMBER | DATE MEASURED | CASING WELL ELEVATION | DEPTH TO PRODUCT | DEPTH TO WATER | PSH THICKNESS | CORRECTED GROUND WATER ELEVATION |
|-------------|---------------|-----------------------|------------------|----------------|---------------|----------------------------------|
| RW - 1      | 07/31/00      | 3,797.66              | -                | 61.76          | 0.00          | 3,735.90                         |
|             | 09/13/00      | 3,797.66              | -                | 61.86          | 0.00          | 3,735.80                         |
|             | 11/15/00      | 3,797.66              | -                | 61.94          | 0.00          | 3,735.72                         |
|             | 02/14/01      | 3,797.66              | -                | 61.95          | 0.00          | 3,735.71                         |
|             | 04/24/01      | 3,797.66              | 62.06            | 62.50          | 0.44          | 3,735.53                         |
|             | 08/21/01      | 3,797.66              | 62.31            | 63.18          | 0.87          | 3,735.22                         |
|             | 10/30/01      | 3,797.66              | 62.43            | 63.00          | 0.57          | 3,735.14                         |
|             | 02/18/02      | 3,797.66              | 62.20            | 64.53          | 2.33          | 3,735.11                         |
|             | 06/19/02      | 3,797.66              | 62.87            | 62.94          | 0.07          | 3,734.78                         |
| RW - 2      | 07/31/00      | 3,797.60              | 61.53            | 62.45          | 0.92          | 3,735.93                         |
|             | 09/13/00      | 3,797.60              | 61.13            | 64.52          | 3.39          | 3,735.96                         |
|             | 11/15/00      | 3,797.60              | 61.01            | 65.91          | 4.90          | 3,735.86                         |
|             | 02/14/01      | 3,797.60              | 61.04            | 66.80          | 5.76          | 3,735.70                         |
|             | 04/24/01      | 3,797.60              | 60.26            | 66.21          | 5.95          | 3,736.45                         |
|             | 08/21/01      | 3,797.60              | 61.47            | 67.22          | 5.75          | 3,735.27                         |
|             | 10/30/01      | 3,797.60              | 61.58            | 66.25          | 4.67          | 3,735.32                         |
|             | 02/18/02      | 3,797.60              | 61.42            | 67.68          | 6.26          | 3,735.24                         |
|             | 06/19/02      | 3,797.60              | 62.86            | 62.93          | 0.07          | 3,734.73                         |
| RW - 3      | 07/31/00      | 3,798.81              | 61.35            | 37.81          | 6.46          | 3,766.49                         |
|             | 09/13/00      | 3,798.81              | 61.77            | 67.82          | 6.35          | 3,736.39                         |
|             | 11/15/00      | 3,798.81              | 61.65            | 67.81          | 6.16          | 3,736.24                         |
|             | 02/14/01      | 3,798.81              | 61.88            | 67.80          | 5.92          | 3,736.04                         |
|             | 04/24/01      | 3,798.81              | 61.97            | 67.84          | 5.87          | 3,735.96                         |
|             | 08/21/01      | 3,798.81              | 62.20            | 67.87          | 5.47          | 3,735.59                         |
|             | 10/30/01      | 3,798.81              | 62.30            | 65.70          | 3.40          | 3,736.00                         |
|             | 02/18/02      | 3,798.81              | *                | *              | *             | *                                |
|             | 06/19/02      | 3,798.81              | *                | *              | *             | *                                |
| RW - 4      | 07/31/00      | 3,798.34              | 61.95            | 64.92          | 2.97          | 3,735.94                         |
|             | 09/13/00      | 3,798.34              | 61.33            | 68.18          | 6.85          | 3,735.98                         |
|             | 11/15/00      | 3,798.34              | 61.44            | 68.41          | 6.97          | 3,735.85                         |
|             | 02/14/01      | 3,798.34              | 61.65            | 68.47          | 6.82          | 3,735.67                         |
|             | 04/24/01      | 3,798.34              | 61.75            | 68.51          | 6.76          | 3,735.58                         |
|             | 08/21/01      | 3,798.34              | 62.05            | 66.26          | 4.21          | 3,735.66                         |
|             | 10/30/01      | 3,798.34              | 62.14            | 64.00          | 1.85          | 3,735.91                         |
|             | 02/18/02      | 3,798.34              | 62.14            | 68.81          | 6.67          | 3,735.20                         |
|             | 06/19/02      | 3,798.34              | 63.87            | 63.92          | 0.05          | 3,734.46                         |
| RW - 5      | 08/21/01      | 3,797.60              | 62.22            | 62.22          | 0.00          | 3,735.38                         |
|             | 10/30/01      | 3,797.60              | 62.35            | 62.35          | 0.00          | 3,735.25                         |
|             | 02/18/02      | 3,797.60              | -                | 62.50          | 0.00          | 3,735.10                         |
|             | 06/19/02      | 3,797.60              | -                | 62.69          | 0.00          | 3,734.91                         |
| RW - 6      | 08/21/01      | 3,797.28              | 61.88            | 61.89          | 0.01          | 3,735.40                         |
|             | 10/30/01      | 3,797.28              | 62.01            | 62.04          | 0.03          | 3,735.27                         |
|             | 02/18/02      | 3,797.28              | 62.13            | 62.40          | 0.27          | 3,735.11                         |
|             | 06/19/02      | 3,797.28              | 62.26            | 62.81          | 0.55          | 3,734.94                         |

\*\* Could not gauge due to excavation



TABLE 2

## HISTORICAL SOIL CHEMISTRY

EOTT ENERGY CORPORATION

DARR ANGELL # 4

LEA COUNTY, NEW MEXICO

ETGI PROJECT # EO2075

| SAMPLE LOCATION | SAMPLE DATE | SAMPLE DEPTH | METHODS: 8260b/BTEX |                    |                              |                              | Method: 8015m  |                |
|-----------------|-------------|--------------|---------------------|--------------------|------------------------------|------------------------------|----------------|----------------|
|                 |             |              | BENZENE<br>(mg/Kg)  | TOLUENE<br>(mg/Kg) | ETHYL-<br>BENZENE<br>(mg/Kg) | m,p,o-<br>XYLENES<br>(mg/Kg) | GRO<br>(mg/Kg) | DRO<br>(mg/Kg) |
| SB-1            | 07/03/00    | 3-5' C       |                     |                    |                              |                              | <10            | <10            |
|                 |             | 8-10' C      |                     |                    |                              |                              | <10            | <10            |
|                 |             | 13-15' C     |                     |                    |                              |                              | <10            | <10            |
|                 |             | 18-20' C     |                     |                    |                              |                              | <10            | <10            |
|                 |             | 23-25' C     |                     |                    |                              |                              | <10            | <10            |
|                 |             | 28-30' SS    |                     |                    |                              |                              | <10            | <10            |
|                 |             | 33-35' SS    |                     |                    |                              |                              | <10            | <10            |
|                 |             | 38-40' SS    |                     |                    |                              |                              | <10            | <10            |
|                 |             | 43-45' SS    |                     |                    |                              |                              | <10            | <10            |
|                 |             | 48-50' SS    |                     |                    |                              |                              | <10            | <10            |
|                 |             | 53-55' SS    |                     |                    |                              |                              | <10            | <10            |
| SB-2/RW-1       | 07/05/00    | 58-60' SS    |                     |                    |                              |                              | <10            | <10            |
|                 |             | 0-2' C       |                     |                    |                              |                              | <10            | <10            |
|                 |             | 3-5' C       |                     |                    |                              |                              | <10            | <10            |
|                 |             | 8-10' C      |                     |                    |                              |                              | <10            | <10            |
|                 |             | 13-15' C     |                     |                    |                              |                              | <10            | <10            |
|                 |             | 18-20' C     |                     |                    |                              |                              | <10            | <10            |
|                 |             | 23-25' SS    |                     |                    |                              |                              | <10            | <10            |
|                 |             | 28-30' C     |                     |                    |                              |                              | <10            | <10            |
|                 |             | 33-35' C     |                     |                    |                              |                              | <10            | <10            |
|                 |             | 38-40' SS    |                     |                    |                              |                              | <10            | <10            |
|                 |             | 43-45' SS    |                     |                    |                              |                              | <10            | <10            |
|                 |             | 48-50' SS    |                     |                    |                              |                              | <10            | <10            |
|                 |             | 53-55' SS    |                     |                    |                              |                              | <10            | <10            |
|                 |             | 58-60' SS    | <0.100              | 7.55               | 3.64                         | 18.11                        | 562            | 1007           |
|                 |             | 63-65' C     |                     |                    |                              |                              | <10            | <10            |
|                 |             | 68-70' C     |                     |                    |                              |                              | <10            | <10            |
| SB-3            | 07/06/00    | 0-2' C       |                     |                    |                              |                              | <10            | <10            |
|                 |             | 3-5' C       |                     |                    |                              |                              | <10            | <10            |
|                 |             | 8-10' C      |                     |                    |                              |                              | <10            | <10            |
|                 |             | 13-15' C     |                     |                    |                              |                              | <10            | <10            |
|                 |             | 18-20' C     |                     |                    |                              |                              | <10            | <10            |
|                 |             | 23-25' C     |                     |                    |                              |                              | <10            | <10            |
|                 |             | 28-30' C     |                     |                    |                              |                              | <10            | <10            |
|                 |             | 33-35' C     |                     |                    |                              |                              | <10            | <10            |
|                 |             | 38-40' SS    |                     |                    |                              |                              | <10            | <10            |
|                 |             | 43-45' SS    |                     |                    |                              |                              | <10            | <10            |
|                 |             | 48-50' SS    |                     |                    |                              |                              | <10            | <10            |
| SB-4/RW-2       | 07/06/00    | 53-55' SS    |                     |                    |                              |                              | <10            | <10            |
|                 |             | 58-60' SS    |                     |                    |                              |                              | <10            | <10            |
|                 |             | 0-2' C       |                     |                    |                              |                              | <10            | <10            |
|                 |             | 3-5' C       |                     |                    |                              |                              | <10            | <10            |
|                 |             | 8-10' C      |                     |                    |                              |                              | <10            | <10            |
|                 |             | 13-15' C     |                     |                    |                              |                              | <10            | <10            |
|                 |             | 18-20' C     |                     |                    |                              |                              | <10            | <10            |
|                 |             | 23-25' C     |                     |                    |                              |                              | <10            | <10            |
|                 |             | 28-30' C     |                     |                    |                              |                              | <10            | <10            |
|                 |             | 33-35' C     |                     |                    |                              |                              | <10            | <10            |
|                 |             | 38-40' C     |                     |                    |                              |                              | <10            | <10            |
|                 |             | 43-45' C     |                     |                    |                              |                              | <10            | <10            |
|                 |             | 48-50' C     |                     |                    |                              |                              | <10            | <10            |
|                 |             | 53-55' C     |                     |                    |                              |                              | <10            | <10            |
|                 |             | 58-60' SS    | <0.100              | 0.739              | 0.530                        | 3.449                        | <10            | 137            |

TABLE 2 (Cont')

| SAMPLE LOCATION | SAMPLE DATE | SAMPLE DEPTH | METHODS: 8260b/BTEX |                    |                              |                              | Method: 8015m  |                |
|-----------------|-------------|--------------|---------------------|--------------------|------------------------------|------------------------------|----------------|----------------|
|                 |             |              | BENZENE<br>(mg/Kg)  | TOLUENE<br>(mg/Kg) | ETHYL-<br>BENZENE<br>(mg/Kg) | m,p,o-<br>XYLENES<br>(mg/Kg) | GRO<br>(mg/Kg) | DRO<br>(mg/Kg) |
| SB-5            | 07/07/00    | 0-2' C       |                     |                    |                              |                              | <10            | <10            |
|                 |             | 3-5' C       |                     |                    |                              |                              | <10            | <10            |
|                 |             | 8-10' C      |                     |                    |                              |                              | <10            | <10            |
|                 |             | 13-15' C     |                     |                    |                              |                              | <10            | <10            |
|                 |             | 18-20' C     |                     |                    |                              |                              | <10            | <10            |
|                 |             | 23-25' C     |                     |                    |                              |                              | <10            | <10            |
|                 |             | 28-30' C     |                     |                    |                              |                              | <10            | <10            |
|                 |             | 33-35' C     |                     |                    |                              |                              | <10            | <10            |
|                 |             | 38-40' C     |                     |                    |                              |                              | <10            | <10            |
|                 |             | 43-45' C     |                     |                    |                              |                              | <10            | <10            |
|                 |             | 48-50' C     |                     |                    |                              |                              | <10            | <10            |
|                 |             | 53-55' C     |                     |                    |                              |                              | <10            | <10            |
| SB-6            | 07/07/00    | 58-60' C     |                     |                    |                              |                              | <10            | <10            |
|                 |             | 0-2' C       |                     |                    |                              |                              | <10            | <10            |
|                 |             | 3-5' C       |                     |                    |                              |                              | <10            | <10            |
|                 |             | 8-10' C      |                     |                    |                              |                              | <10            | <10            |
|                 |             | 13-15' C     |                     |                    |                              |                              | <10            | <10            |
|                 |             | 18-20' C     |                     |                    |                              |                              | <10            | <10            |
|                 |             | 23-25' C     |                     |                    |                              |                              | <10            | <10            |
|                 |             | 28-30' C     |                     |                    |                              |                              | <10            | <10            |
|                 |             | 33-35' C     |                     |                    |                              |                              | <10            | <10            |
|                 |             | 38-40' C     |                     |                    |                              |                              | <10            | <10            |
|                 |             | 43-45' C     |                     |                    |                              |                              | <10            | <10            |
|                 |             | 48-50' C     |                     |                    |                              |                              | <10            | <10            |
| SB-7            | 07/07/00    | 53-55' C     |                     |                    |                              |                              | <10            | <10            |
|                 |             | 58-60' SS    |                     |                    |                              |                              | <10            | <10            |
|                 |             | 0-2' C       |                     |                    |                              |                              | <10            | <10            |
|                 |             | 3-5' C       |                     |                    |                              |                              | <10            | <10            |
|                 |             | 8-10' C      |                     |                    |                              |                              | <10            | <10            |
|                 |             | 13-15' C     |                     |                    |                              |                              | <10            | <10            |
|                 |             | 18-20' C     |                     |                    |                              |                              | <10            | <10            |
|                 |             | 23-25' C     |                     |                    |                              |                              | <10            | <10            |
|                 |             | 28-30' C     |                     |                    |                              |                              | <10            | <10            |
|                 |             | 33-35' C     |                     |                    |                              |                              | <10            | <10            |
|                 |             | 38-40' C     |                     |                    |                              |                              | <10            | <10            |
|                 |             | 43-45' C     |                     |                    |                              |                              | <10            | <10            |
| SB-8            | 07/11/00    | 48-50' C     |                     |                    |                              |                              | <10            | <10            |
|                 |             | 53-55' C     |                     |                    |                              |                              | <10            | <10            |
|                 |             | 58-60' SS    |                     |                    |                              |                              | 87             | 730            |
|                 |             | 60-62' SS    | <0.100              | <0.100             | <0.100                       | 0.158                        | <10            | <10            |
|                 |             | 0-2'         |                     |                    |                              |                              | <10            | <10            |
|                 |             | 3-5'         |                     |                    |                              |                              | <10            | <10            |
|                 |             | 8-10'        |                     |                    |                              |                              | <10            | <10            |
|                 |             | 13-15'       |                     |                    |                              |                              | <10            | <10            |
|                 |             | 18-20'       |                     |                    |                              |                              | <10            | <10            |
|                 |             | 23-25'       |                     |                    |                              |                              | <10            | <10            |
|                 |             | 28-30'       |                     |                    |                              |                              | <10            | <10            |
|                 |             | 33-35'       |                     |                    |                              |                              | <10            | <10            |
|                 |             | 38-40'       |                     |                    |                              |                              | <10            | <10            |
|                 |             | 43-45'       |                     |                    |                              |                              | <10            | <10            |
|                 |             | 48-50'       |                     |                    |                              |                              | <10            | <10            |
|                 |             | 53-55'       |                     |                    |                              |                              | <10            | <10            |
|                 |             | 58-60'       |                     |                    |                              |                              | <10            | 70             |
|                 |             | 63-65'       |                     |                    |                              |                              | <10            | <10            |

TABLE 2 (Cont')

| SAMPLE LOCATION | SAMPLE DATE | SAMPLE DEPTH | METHODS: 8260b/BTEX |                 |                       |                       | Method: 8015m |             |
|-----------------|-------------|--------------|---------------------|-----------------|-----------------------|-----------------------|---------------|-------------|
|                 |             |              | BENZENE (mg/Kg)     | TOLUENE (mg/Kg) | ETHYL-BENZENE (mg/Kg) | m,p,o-XYLENES (mg/Kg) | GRO (mg/Kg)   | DRO (mg/Kg) |
| SB-9            | 07/14/00    | 0-2'         |                     |                 |                       |                       | <10           | <10         |
|                 |             | 3-5'         |                     |                 |                       |                       | <10           | <10         |
|                 |             | 8-10'        |                     |                 |                       |                       | <10           | <10         |
|                 |             | 13-15'       |                     |                 |                       |                       | <10           | <10         |
|                 |             | 18-20'       |                     |                 |                       |                       | <10           | <10         |
|                 |             | 23-25'       |                     |                 |                       |                       | <10           | <10         |
|                 |             | 28-30'       |                     |                 |                       |                       | <10           | <10         |
|                 |             | 33-35'       |                     |                 |                       |                       | <10           | <10         |
|                 |             | 38-40'       |                     |                 |                       |                       | <10           | <10         |
|                 |             | 43-45'       |                     |                 |                       |                       | <10           | <10         |
|                 |             | 48-50'       |                     |                 |                       |                       | <10           | 328         |
|                 |             | 53-55'       |                     |                 |                       |                       | <10           | 92          |
|                 |             | 58-60'       |                     |                 |                       |                       | <10           | 396         |
| SB - 10         | 05/10/02    | 60'          |                     |                 |                       |                       | <5            | 10.8        |
| RW-3            | 07/12/00    | 0-2'         |                     |                 |                       |                       | 465           | 1228        |
|                 |             | 3-5'         | <0.100              | <0.100          | 3.45                  | 21.65                 | 503           | 1803        |
|                 |             | 8-10'        | <0.100              | 5.06            | 3.89                  | 20.22                 | 2221          | 5575        |
|                 |             | 13-15'       | 1.16                | 22.8            | 13.6                  | 62.2                  | 2267          | 5757        |
|                 |             | 18-20'       | <0.100              | 3.59            | 2.36                  | 11.61                 | 1665          | 4875        |
|                 |             | 23-25'       | 5.37                | 38.6            | 17.3                  | 92.2                  | 3071          | 5147        |
|                 |             | 28-30'       | 2.52                | 25.8            | 14.6                  | 77.4                  | 3818          | 12533       |
|                 |             | 33-35'       |                     |                 |                       |                       | <10           | 714         |
|                 |             | 38-40'       |                     |                 |                       |                       | <10           | 78          |
|                 |             | 43-45'       |                     |                 |                       |                       | <10           | 27          |
|                 |             | 48-50'       |                     |                 |                       |                       | <10           | 11          |
|                 |             | 53-55'       |                     |                 |                       |                       | <10           | <10         |
|                 |             | 58-60'       | 1.29                | 20.2            | 13.8                  | 66.4                  | 1720          | 5501        |
|                 |             | 63-65'       | <0.100              | 0.635           | 0.585                 | 3.201                 | 47            | 1050        |
| RW-4            | 07/13/00    | 0-2'         |                     |                 |                       |                       | <10           | <10         |
|                 |             | 3-5'         |                     |                 |                       |                       | <10           | <10         |
|                 |             | 8-10'        |                     |                 |                       |                       | <10           | <10         |
|                 |             | 13-15'       |                     |                 |                       |                       | <10           | <10         |
|                 |             | 18-20'       |                     |                 |                       |                       | <10           | <10         |
|                 |             | 23-25'       |                     |                 |                       |                       | <10           | <10         |
|                 |             | 28-30'       |                     |                 |                       |                       | <10           | <10         |
|                 |             | 33-35'       |                     |                 |                       |                       | <10           | <10         |
|                 |             | 38-40'       |                     |                 |                       |                       | <10           | <10         |
|                 |             | 43-45'       | <0.100              | 0.156           | <0.100                | 0.141                 | <10           | 233         |
|                 |             | 48-50'       | <0.100              | 0.106           | <0.100                | 0.167                 | 34            | 699         |
|                 |             | 53-55'       | <0.100              | 0.305           | 0.165                 | 0.89                  | 37            | 492         |
|                 |             | 58-60'       | <0.100              | 1.20            | 1.18                  | 5.98                  | 253           | 1796        |
|                 |             | 63-65'       |                     |                 |                       |                       | <10           | 342         |
| RW-5            | 07/16/01    | 0-2'         |                     |                 |                       |                       | <5            | 3.16        |
|                 |             | 5'-7'        |                     |                 |                       |                       | <5            | <1          |
|                 |             | 10'-12'      |                     |                 |                       |                       | <5            | 13.3        |
|                 |             | 15'-17'      |                     |                 |                       |                       | <5            | 6.43        |
|                 |             | 20'-22'      |                     |                 |                       |                       | <5            | 2.44        |
|                 |             | 25'-27'      |                     |                 |                       |                       | <5            | 1.39        |
|                 |             | 30'-32'      |                     |                 |                       |                       | <5            | <1          |
|                 |             | 35'-37'      |                     |                 |                       |                       | <5            | 1.45        |
|                 |             | 40'-42'      |                     |                 |                       |                       | <5            | 2.23        |
|                 |             | 45'-47'      |                     |                 |                       |                       | <5            | 3.34        |
|                 |             | 50'-52'      | 0.084               | <0.020          | 0.043                 | 0.152                 | 33.1          | 390         |
|                 |             | 55'-57'      | 0.023               | <0.020          | <0.020                | 0.033                 | 38.4          | 490         |
|                 |             | 60'-62'      | 0.025               | 0.043           | 0.112                 | 0.068                 | 38            | 99.2        |
|                 |             | 65'-67'      |                     |                 |                       |                       | 25.7          | 288         |

TABLE 2 (Cont')

| SAMPLE LOCATION | SAMPLE DATE | SAMPLE DEPTH | METHODS: 8260b/BTEX |                    |                              |                              | Method: 8015m  |                |
|-----------------|-------------|--------------|---------------------|--------------------|------------------------------|------------------------------|----------------|----------------|
|                 |             |              | BENZENE<br>(mg/Kg)  | TOLUENE<br>(mg/Kg) | ETHYL-<br>BENZENE<br>(mg/Kg) | m,p,o-<br>XYLENES<br>(mg/Kg) | GRO<br>(mg/Kg) | DRO<br>(mg/Kg) |
| RW-6            | 07/27/01    | 5-7'         |                     |                    |                              |                              | <5             | 2.96           |
|                 |             | 10-12'       |                     |                    |                              |                              | <5             | 8.93           |
|                 |             | 15-16'       |                     |                    |                              |                              | <5             | 2.35           |
|                 |             | 20-22'       |                     |                    |                              |                              | <5             | 1.74           |
|                 |             | 24-26'       |                     |                    |                              |                              | <5             | 2.94           |
|                 |             | 30-32'       |                     |                    |                              |                              | <5             | 17.8           |
|                 |             | 35-37'       |                     |                    |                              |                              | <5             | 3.38           |
|                 |             | 40-42'       |                     |                    |                              |                              | <5             | 8.51           |
|                 |             | 45-47'       |                     |                    |                              |                              | <5             | 14.6           |
|                 |             | 50-52'       |                     |                    |                              |                              | 28.2           | 566            |
|                 |             | 55-57'       |                     |                    |                              |                              | 70.6           | 1190           |
|                 |             | 60-62'       |                     |                    |                              |                              | 31.8           | 660            |
|                 |             | 65-67'       |                     |                    |                              |                              | 20.3           | 386            |
| MW-1            | 07/13/00    | 0-2'         |                     |                    |                              |                              | <10            | 75             |
|                 |             | 3-5'         |                     |                    |                              |                              | <10            | <10            |
|                 |             | 8-10'        |                     |                    |                              |                              | <10            | <10            |
|                 |             | 13-15'       |                     |                    |                              |                              | <10            | <10            |
|                 |             | 18-20'       |                     |                    |                              |                              | <10            | <10            |
|                 |             | 23-25'       |                     |                    |                              |                              | <10            | <10            |
|                 |             | 28-30'       |                     |                    |                              |                              | <10            | <10            |
|                 |             | 33-35'       |                     |                    |                              |                              | <10            | <10            |
|                 |             | 38-40'       |                     |                    |                              |                              | <10            | <10            |
|                 |             | 43-45'       |                     |                    |                              |                              | <10            | <10            |
|                 |             | 48-50'       |                     |                    |                              |                              | <10            | <10            |
|                 |             | 53-55'       |                     |                    |                              |                              | <10            | <10            |
|                 |             | 58-60'       |                     |                    |                              |                              | <10            | <10            |
| MW-2            | 07/14/00    | 0-2'         |                     |                    |                              |                              | <10            | <10            |
|                 |             | 3-5'         |                     |                    |                              |                              | <10            | <10            |
|                 |             | 8-10'        |                     |                    |                              |                              | <10            | <10            |
|                 |             | 13-15'       |                     |                    |                              |                              | <10            | <10            |
|                 |             | 18-20'       |                     |                    |                              |                              | <10            | <10            |
|                 |             | 23-25'       |                     |                    |                              |                              | <10            | <10            |
|                 |             | 28-30'       |                     |                    |                              |                              | <10            | <10            |
|                 |             | 33-35'       |                     |                    |                              |                              | <10            | <10            |
|                 |             | 38-40'       |                     |                    |                              |                              | <10            | <10            |
|                 |             | 43-45'       |                     |                    |                              |                              | <10            | <10            |
|                 |             | 48-50'       |                     |                    |                              |                              | <10            | <10            |
|                 |             | 53-55'       |                     |                    |                              |                              | <10            | <10            |
|                 |             | 58-60'       |                     |                    |                              |                              | <10            | <10            |
|                 |             | 63-65'       |                     |                    |                              |                              | <10            | <10            |
| MW-3            | 07/17/00    | 0-2'         |                     |                    |                              |                              | <10            | <10            |
|                 |             | 3-5'         |                     |                    |                              |                              | <10            | <10            |
|                 |             | 8-10'        |                     |                    |                              |                              | <10            | <10            |
|                 |             | 13-15'       |                     |                    |                              |                              | <10            | <10            |
|                 |             | 18-20'       |                     |                    |                              |                              | <10            | <10            |
|                 |             | 23-25'       |                     |                    |                              |                              | <10            | <10            |
|                 |             | 28-30'       |                     |                    |                              |                              | <10            | <10            |
|                 |             | 33-35'       |                     |                    |                              |                              | <10            | <10            |
|                 |             | 38-40'       |                     |                    |                              |                              | <10            | <10            |
|                 |             | 43-45'       |                     |                    |                              |                              | <10            | <10            |
|                 |             | 48-50'       |                     |                    |                              |                              | <10            | <10            |
|                 |             | 53-55'       |                     |                    |                              |                              | <10            | <10            |
|                 |             | 58-60'       |                     |                    |                              |                              | <10            | <10            |
|                 |             | 63-65'       |                     |                    |                              |                              | <10            | <10            |

TABLE 2 (Cont')

| SAMPLE LOCATION | SAMPLE DATE | SAMPLE DEPTH | METHODS: 8260b/BTEX |                 |                       |                       | Method: 8015m |             |
|-----------------|-------------|--------------|---------------------|-----------------|-----------------------|-----------------------|---------------|-------------|
|                 |             |              | BENZENE (mg/Kg)     | TOLUENE (mg/Kg) | ETHYL-BENZENE (mg/Kg) | m,p,o-XYLENES (mg/Kg) | GRO (mg/Kg)   | DRO (mg/Kg) |
| MW-4            | 07/13/01    | 0-2'         |                     |                 |                       |                       | <5            | 9.7         |
|                 |             | 5-7'         |                     |                 |                       |                       | <5            | 32.6        |
|                 |             | 10-12'       |                     |                 |                       |                       | <5            | 10          |
|                 |             | 15-17'       |                     |                 |                       |                       | <5            | 9.94        |
|                 | 07/16/01    | 20-22'       |                     |                 |                       |                       | <5            | 4.13        |
|                 |             | 25-27'       |                     |                 |                       |                       | <5            | 2.81        |
|                 |             | 30-32'       |                     |                 |                       |                       | <5            | 17.4        |
|                 |             | 35-37'       |                     |                 |                       |                       | <5            | 118         |
|                 |             | 40-42'       |                     |                 |                       |                       | <5            | 5.01        |
|                 |             | 45-47'       |                     |                 |                       |                       | <5            | <1          |
|                 |             | 50-52'       |                     |                 |                       |                       | <5            | 1.1         |
|                 |             | 55-57'       |                     |                 |                       |                       | <5            | <1          |
|                 |             | 60-62'       |                     |                 |                       |                       | <5            | 2.87        |
|                 |             | 65-67'       |                     |                 |                       |                       | <5            | 1.2         |
| MW-5            | 07/30/01    | 0-2'         |                     |                 |                       |                       | <1            | <50         |
|                 |             | 5-7'         |                     |                 |                       |                       | <1            | <50         |
|                 |             | 10-12'       |                     |                 |                       |                       | <1            | <50         |
|                 |             | 15-17'       |                     |                 |                       |                       | <1            | <50         |
|                 |             | 20-22'       |                     |                 |                       |                       | <1            | <50         |
|                 |             | 25-27'       |                     |                 |                       |                       | <1            | <50         |
|                 |             | 30-32'       |                     |                 |                       |                       | <1            | <50         |
|                 |             | 35-37'       |                     |                 |                       |                       | <1            | <50         |
|                 |             | 40-42'       |                     |                 |                       |                       | <1            | <50         |
|                 |             | 45-47'       |                     |                 |                       |                       | <1            | <50         |
|                 |             | 50-52'       |                     |                 |                       |                       | 1.53          | <50         |
|                 |             | 55-57'       |                     |                 |                       |                       | <1            | <50         |
|                 |             | 60-62'       |                     |                 |                       |                       | <1            | <50         |
|                 |             | 65-67'       |                     |                 |                       |                       | <1            | <50         |
| MW-6            | 07/31/01    | 0-2'         |                     |                 |                       |                       | <1            | <50         |
|                 |             | 5-7'         |                     |                 |                       |                       | <1            | <50         |
|                 |             | 10-12'       |                     |                 |                       |                       | <1            | <50         |
|                 |             | 15-17'       |                     |                 |                       |                       | <1            | <50         |
|                 |             | 20-22'       |                     |                 |                       |                       | <1            | <50         |
|                 |             | 25-27'       |                     |                 |                       |                       | <1            | <50         |
|                 |             | 30-32'       |                     |                 |                       |                       | <1            | <50         |
|                 |             | 35-37'       |                     |                 |                       |                       | <1            | <50         |
|                 |             | 40-42'       |                     |                 |                       |                       | <1            | <50         |
|                 |             | 45-47'       |                     |                 |                       |                       | <1            | <50         |
|                 |             | 50-52'       |                     |                 |                       |                       | <1            | <50         |
|                 |             | 55-57'       |                     |                 |                       |                       | <1            | <50         |
|                 |             | 60-62'       |                     |                 |                       |                       | <1            | 162         |
|                 |             | 65-67'       |                     |                 |                       |                       | 1.23          | 78.8        |
| MW-7            | 07/31/01    | 0-2'         |                     |                 |                       |                       | <1            | <50         |
|                 |             | 5-7'         |                     |                 |                       |                       | <1            | <50         |
|                 |             | 10-12'       |                     |                 |                       |                       | <1            | <50         |
|                 |             | 15-17'       |                     |                 |                       |                       | <1            | <50         |
|                 |             | 20-22'       |                     |                 |                       |                       | <1            | <50         |
|                 |             | 25-27'       |                     |                 |                       |                       | <1            | <50         |
|                 |             | 30-32'       |                     |                 |                       |                       | <1            | <50         |
|                 |             | 35-37'       |                     |                 |                       |                       | <1            | <50         |
|                 |             | 40-42'       |                     |                 |                       |                       | <1            | <50         |
|                 |             | 45-47'       |                     |                 |                       |                       | <1            | <50         |
|                 |             | 50-52'       |                     |                 |                       |                       | <1            | <50         |
|                 |             | 55-57'       |                     |                 |                       |                       | <1            | 276         |
|                 |             | 60-62'       |                     |                 |                       |                       | <1            | <50         |

TABLE 2 (Cont')

| SAMPLE LOCATION | SAMPLE DATE | SAMPLE DEPTH | METHODS: 8260b/BTEX |                    |                              |                              | Method: 8015m  |                |
|-----------------|-------------|--------------|---------------------|--------------------|------------------------------|------------------------------|----------------|----------------|
|                 |             |              | BENZENE<br>(mg/Kg)  | TOLUENE<br>(mg/Kg) | ETHYL-<br>BENZENE<br>(mg/Kg) | m,p,o-<br>XYLENES<br>(mg/Kg) | GRO<br>(mg/Kg) | DRO<br>(mg/Kg) |
| MW-8            | 08/01/01    | 0-2'         |                     |                    |                              |                              | <1             | <50            |
|                 |             | 5-7'         |                     |                    |                              |                              | <1             | <50            |
|                 |             | 10-12'       |                     |                    |                              |                              | <1             | <50            |
|                 |             | 15-17'       |                     |                    |                              |                              | <1             | <50            |
|                 |             | 20-22'       |                     |                    |                              |                              | <1             | <50            |
|                 |             | 25-27'       |                     |                    |                              |                              | <1             | 568            |
|                 |             | 30-32'       |                     |                    |                              |                              | <1             | 369            |
|                 |             | 35-37'       |                     |                    |                              |                              | <1             | 333            |
|                 |             | 40-42'       |                     |                    |                              |                              | <1             | 124            |
|                 |             | 45-47'       |                     |                    |                              |                              | <1             | <50            |
|                 |             | 50-52'       |                     |                    |                              |                              | <1             | <50            |
|                 |             | 55-57'       |                     |                    |                              |                              | <1             | <50            |
|                 |             | 60-62'       |                     |                    |                              |                              | <1             | <50            |
|                 |             | 65-67'       |                     |                    |                              |                              | <1             | <50            |
| MW-9            | 08/09/01    | 0-2'         |                     |                    |                              |                              | <5             | 18             |
|                 |             | 5-7'         |                     |                    |                              |                              | <5             | 15.4           |
|                 |             | 10-12'       |                     |                    |                              |                              | <5             | 5.08           |
|                 |             | 15-17'       |                     |                    |                              |                              | <5             | 4.61           |
|                 |             | 20-22'       |                     |                    |                              |                              | <5             | 1.83           |
|                 |             | 25-27'       |                     |                    |                              |                              | <5             | 5.1            |
|                 |             | 30-32'       |                     |                    |                              |                              | <5             | 14.6           |
|                 |             | 35-37'       |                     |                    |                              |                              | <5             | <1             |
|                 |             | 40-42'       |                     |                    |                              |                              | <5             | <1             |
|                 |             | 45-47'       |                     |                    |                              |                              | <5             | 5.58           |
|                 |             | 50-52'       |                     |                    |                              |                              | <5             | 1.48           |
|                 |             | 55-57'       |                     |                    |                              |                              | <5             | 2.86           |
|                 |             | 60-62'       |                     |                    |                              |                              | <5             | 2.51           |
|                 |             | 65-67'       |                     |                    |                              |                              | <5             | 16.3           |
| MW-10           | 08/10/01    | 0-2'         |                     |                    |                              |                              | <5             | 17             |
|                 |             | 5-7'         |                     |                    |                              |                              | <5             | 4.81           |
|                 |             | 10-12'       |                     |                    |                              |                              | <5             | 3.89           |
|                 |             | 15-17'       |                     |                    |                              |                              | <5             | 2.65           |
|                 |             | 20-22'       |                     |                    |                              |                              | <5             | <1             |
|                 |             | 25-27'       |                     |                    |                              |                              | <5             | 6.57           |
|                 |             | 30-32'       |                     |                    |                              |                              | <5             | <1             |
|                 |             | 35-37'       |                     |                    |                              |                              | <5             | <1             |
|                 |             | 40-42'       |                     |                    |                              |                              | <5             | 3.5            |
|                 |             | 45-47'       |                     |                    |                              |                              | <5             | 2.34           |
|                 |             | 50-52'       |                     |                    |                              |                              | <5             | 1.41           |
|                 |             | 55-57'       |                     |                    |                              |                              | <5             | 1.92           |
|                 |             | 60-62'       |                     |                    |                              |                              | <5             | 1.04           |
|                 |             | 65-67'       |                     |                    |                              |                              | <5             | 2.09           |
| MW-11           | 08/13/01    | 0-2'         |                     |                    |                              |                              | <5             | 1.72           |
|                 |             | 5-7'         |                     |                    |                              |                              | <5             | 1.96           |
|                 |             | 10-12'       |                     |                    |                              |                              | <5             | 2.2            |
|                 |             | 15-17'       |                     |                    |                              |                              | <5             | 1.27           |
|                 |             | 20-22'       |                     |                    |                              |                              | <5             | 4.64           |
|                 |             | 25-27'       |                     |                    |                              |                              | <5             | 6.58           |
|                 |             | 30-32'       |                     |                    |                              |                              | <5             | 6.9            |
|                 |             | 35-37'       |                     |                    |                              |                              | <5             | 5.84           |
|                 |             | 40-42'       |                     |                    |                              |                              | <5             | <1             |
|                 |             | 45-47'       |                     |                    |                              |                              | <5             | 7.13           |
|                 |             | 50-52'       |                     |                    |                              |                              | <5             | 5.82           |
|                 |             | 55-57'       |                     |                    |                              |                              | <5             | 2.17           |
|                 |             | 60-62'       |                     |                    |                              |                              | <5             | 1.47           |
|                 |             | 65-67'       |                     |                    |                              |                              | <5             | 2.91           |

TABLE 2 (Cont')

| SAMPLE LOCATION | SAMPLE DATE | SAMPLE DEPTH | METHODS: 8260b/BTEX |                    |                              |                             | Method: 8015m  |                |
|-----------------|-------------|--------------|---------------------|--------------------|------------------------------|-----------------------------|----------------|----------------|
|                 |             |              | BENZENE<br>(mg/Kg)  | TOLUENE<br>(mg/Kg) | ETHYL-<br>BENZENE<br>(mg/Kg) | TOTAL<br>XYLENES<br>(mg/Kg) | GRO<br>(mg/Kg) | DRO<br>(mg/Kg) |
| MW-12           | 08/13/01    | 0-2'         |                     |                    |                              |                             | <5             | 2.05           |
|                 |             | 5-7'         |                     |                    |                              |                             | <5             | <1             |
|                 |             | 10-12'       |                     |                    |                              |                             | <5             | 13             |
|                 |             | 15-17'       |                     |                    |                              |                             | <5             | <1             |
|                 |             | 20-22'       |                     |                    |                              |                             | <5             | 6.29           |
|                 |             | 25-27'       |                     |                    |                              |                             | <5             | 5.68           |
|                 |             | 30-32'       |                     |                    |                              |                             | <5             | 1.56           |
|                 |             | 35-37'       |                     |                    |                              |                             | <5             | 11.2           |
|                 |             | 40-42'       |                     |                    |                              |                             | <5             | 1.92           |
|                 |             | 45-47'       |                     |                    |                              |                             | <5             | 1.27           |
|                 |             | 50-52'       |                     |                    |                              |                             | <5             | 5.47           |
|                 |             | 55-57'       |                     |                    |                              |                             | <5             | <1             |
|                 |             | 60-62'       |                     |                    |                              |                             | <5             | 6.01           |
|                 |             | 65-67'       |                     |                    |                              |                             | <5             | 11.1           |
| MW-13           | 08/14/01    | 0-2'         |                     |                    |                              |                             | <5             | 14.6           |
|                 |             | 5-7'         |                     |                    |                              |                             | <5             | 1.53           |
|                 |             | 10-12'       |                     |                    |                              |                             | <5             | 4.39           |
|                 |             | 15-17'       |                     |                    |                              |                             | <5             | 8.12           |
|                 |             | 20-22'       |                     |                    |                              |                             | <5             | 7.19           |
|                 |             | 25-27'       |                     |                    |                              |                             | <5             | 6.44           |
|                 |             | 30-32'       |                     |                    |                              |                             | <5             | 8.42           |
|                 |             | 35-37'       |                     |                    |                              |                             | <5             | 23.4           |
|                 |             | 40-42'       |                     |                    |                              |                             | <5             | 1.94           |
|                 |             | 45-47'       |                     |                    |                              |                             | <5             | 5.82           |
|                 |             | 50-52'       |                     |                    |                              |                             | <5             | 5.66           |
|                 |             | 55-57'       |                     |                    |                              |                             | <5             | 2.47           |
|                 |             | 60-62'       |                     |                    |                              |                             | <5             | 5.25           |
|                 |             | 65-67'       |                     |                    |                              |                             | <5             | 6.34           |
| GP-001          | 04/18/01    | 0-48"        | <0.025              | <0.025             | <0.025                       | <0.025                      | <10            | <10            |
| GP-002          | 04/18/01    | 0-24"        | <0.025              | <0.025             | <0.025                       | <0.025                      | <10            | <10            |
| GP-003          | 04/18/01    | 0-24"        | <0.025              | <0.025             | <0.025                       | <0.025                      | <10            | <10            |
| GP-004          | 04/18/01    | 0-24"        | <0.025              | <0.025             | <0.025                       | <0.025                      | <10            | <10            |
| GP-005          | 04/18/01    | 0-24"        | <0.025              | <0.025             | <0.025                       | <0.025                      | <10            | <10            |
| GP-006          | 04/18/01    | 0-18"        | <0.025              | <0.025             | <0.025                       | <0.025                      | <10            | 213            |
| GP-007          | 04/18/01    | 0-24"        | <0.025              | <0.025             | <0.025                       | <0.025                      | <10            | <10            |
| GP-008          | 04/18/01    | 0-15"        | <0.025              | <0.025             | <0.025                       | <0.025                      | <10            | <10            |
| GP-009          | 04/18/01    | 0-24"        | <0.025              | <0.025             | <0.025                       | <0.025                      | <10            | <10            |
| GP-010          | 04/18/01    | 0-24"        |                     |                    |                              |                             | <10            | <10            |
| GP-011          | 04/18/01    | 0-24"        | <0.025              | <0.025             | <0.025                       | <0.025                      | <10            | <10            |
| GP-012          | 04/18/01    | 0-18"        | <0.025              | <0.025             | <0.025                       | <0.025                      | <10            | <10            |
| GP-013          | 04/18/01    | 0-24"        | <0.025              | <0.025             | <0.025                       | <0.025                      | <10            | <10            |
| GP-014          | 04/18/01    | 0-12"        | <0.025              | <0.025             | <0.025                       | <0.025                      | <10            | <10            |
| GP-015          | 04/18/01    | 0-18"        | <0.025              | <0.025             | <0.025                       | <0.025                      | <10            | <10            |
| GP-016          | 04/18/01    | 0-48"        |                     |                    |                              |                             | <10            | 1193           |
| GP-017          | 04/18/01    | 0-48"        | <0.025              | <0.025             | <0.025                       | <0.025                      | <10            | <10            |
| GP-018          | 04/18/01    | 0-48"        | <0.025              | <0.025             | <0.025                       | <0.025                      | <10            | <10            |
| GP-019          | 04/18/01    | 0-48"        |                     |                    |                              |                             | <10            | <10            |
| GP-020          | 04/18/01    | 0-48"        |                     |                    |                              |                             | <10            | <10            |
| GP-021          | 04/18/01    | 0-12"        | <0.025              | <0.025             | <0.025                       | <0.025                      | <10            | <10            |
| GP-022          | 04/18/01    | 0-12"        |                     |                    |                              |                             | <10            | <10            |
| GP-023          | 04/18/01    | 0-12"        |                     |                    |                              |                             | <10            | <10            |
| GP-024          | 04/18/01    | 0-12"        |                     |                    |                              |                             | <10            | <10            |
| GP-025          | 04/18/01    | 0-12"        | <0.025              | <0.025             | <0.025                       | <0.025                      | <10            | <10            |
| GP-026          | 04/18/01    | 0-36"        | <0.025              | <0.025             | <0.025                       | <0.025                      | <10            | <10            |
| GP-027          | 04/18/01    | 0-12"        | <0.025              | <0.025             | <0.025                       | <0.025                      | <10            | <10            |
| GP-028          | 04/18/01    | 0-12"        | <0.025              | <0.025             | <0.025                       | <0.025                      | <10            | <10            |
| GP-029          | 04/18/01    | 0-12"        |                     |                    |                              |                             | <10            | <10            |

TABLE 2 (Cont')

| SAMPLE LOCATION | SAMPLE DATE | SAMPLE DEPTH | METHODS: 8260b/BTEX |                    |                              |                             | Method: 8015m  |                |
|-----------------|-------------|--------------|---------------------|--------------------|------------------------------|-----------------------------|----------------|----------------|
|                 |             |              | BENZENE<br>(mg/Kg)  | TOLUENE<br>(mg/Kg) | ETHYL-<br>BENZENE<br>(mg/Kg) | TOTAL<br>XYLENES<br>(mg/Kg) | GRO<br>(mg/Kg) | DRO<br>(mg/Kg) |
| GP-030          | 04/18/01    | 0-12"        | <0.025              | <0.025             | <0.025                       | <0.025                      | <10            | <10            |
| GP-031          | 04/18/01    | 3-36"        |                     |                    |                              |                             | <10            | <10            |
| GP-032          | 04/18/01    | 0-12"        |                     |                    |                              |                             | <10            | <10            |
| GP-033          | 04/18/01    | 0-12"        |                     |                    |                              |                             | <10            | <10            |
| GP-034          | 04/18/01    | 0-12"        |                     |                    |                              |                             | <10            | <10            |
| GP-035          | 04/18/01    | 0-12"        | <0.025              | <0.025             | <0.025                       | <0.025                      | <10            | <10            |
| GP-036          | 04/18/01    | 0-12"        |                     |                    |                              |                             | <10            | <10            |
| GP-037          | 04/18/01    | 0-15"        |                     |                    |                              |                             | <10            | <10            |
| GP-038          | 04/18/01    | 0-12"        |                     |                    |                              |                             | <10            | <10            |
| GP-039          | 04/18/01    | 0-48"        |                     |                    |                              |                             | <10            | <10            |
| GP-040          | 04/18/01    | 0-12"        |                     |                    |                              |                             | <10            | <10            |
| GP-041          | 04/18/01    | 0-12"        |                     |                    |                              |                             | <10            | <10            |
| GP-042          | 04/18/01    | 0-12"        |                     |                    |                              |                             | <10            | <10            |
| GP-043          | 04/18/01    | 0-15"        | <0.025              | <0.025             | <0.025                       | <0.025                      | <10            | <10            |
| GP-044          | 04/18/01    | 0-36"        |                     |                    |                              |                             | <10            | <10            |
| GP-045          | 04/18/01    | 0-4"         | 5.49                | 144                | 76                           | 302.8                       | 9059           | 18868          |
| GP-046          | 04/18/01    | 0-3"         | <0.025              | <0.025             | <0.025                       | <0.025                      | <10            | 381            |
| GP-047          | 04/18/01    | 0-12"        |                     |                    |                              |                             | <10            | 185            |
| GP-048          | 04/18/01    | 0-12"        |                     |                    |                              |                             | 70             | 2615           |
| GP-049          | 04/18/01    | 0-12"        |                     |                    |                              |                             | 45             | 1303           |
|                 |             |              |                     |                    |                              |                             |                |                |



TABLE 3

GROUND WATER CHEMISTRY  
HISTORICAL TABLEEOTT ENERGY CORPORATION  
DARR ANGEL 4  
LEA COUNTY, NEW MEXICO  
ETGI PROJECT # EO 2075*All Concentrations are in mg/L*

| SAMPLE LOCATION | SAMPLE DATE | SW 846-8021B, 5030 |         |               |               |
|-----------------|-------------|--------------------|---------|---------------|---------------|
|                 |             | BENZENE            | TOLUENE | ETHYL-BENZENE | TOTAL XYLENES |
| MW - 1          | 09/14/00    | <0.001             | <0.001  | <0.001        | <0.001        |
|                 | 11/15/00    | <0.001             | <0.001  | <0.001        | <0.001        |
|                 | 02/14/01    | <0.001             | <0.001  | <0.001        | <0.001        |
|                 | 04/24/01    | <0.005             | <0.005  | <0.005        | <0.005        |
|                 | 08/21/01    | 0.002              | <0.001  | <0.001        | <0.001        |
|                 | 10/30/01    | <0.001             | <0.001  | <0.001        | <0.001        |
|                 | 02/18/02    | 0.002              | <0.001  | <0.001        | <0.001        |
|                 | 06/19/02    | 0.006              | <0.001  | 0.002         | <0.001        |
| MW - 2          | 09/14/00    | <0.001             | <0.001  | <0.001        | <0.001        |
|                 | 11/15/00    | <0.001             | <0.001  | <0.001        | <0.001        |
|                 | 02/14/01    | <0.001             | <0.001  | <0.001        | <0.001        |
|                 | 04/24/01    | <0.005             | <0.005  | <0.005        | <0.005        |
|                 | 08/21/01    | <0.001             | <0.001  | <0.001        | <0.001        |
|                 | 10/30/01    | 0.002              | <0.001  | <0.001        | <0.001        |
|                 | 02/18/02    | <0.001             | <0.001  | <0.001        | <0.001        |
|                 | 06/19/02    | <0.001             | <0.001  | <0.001        | <0.001        |
| MW - 3          | 09/14/00    | 0.159              | 0.001   | <0.001        | 0.025         |
|                 | 11/15/00    | 0.431              | <0.001  | <0.001        | 0.074         |
|                 | 02/14/01    | 0.553              | 0.001   | <0.001        | 0.087         |
|                 | 04/24/01    | 0.683              | <0.005  | <0.005        | 0.915         |
|                 | 08/21/01    | 0.953              | <0.001  | <0.001        | 0.085         |
|                 | 10/30/01    | 0.071              | <0.001  | <0.001        | 0.005         |
|                 | 02/18/02    | 0.713              | <0.001  | <0.001        | 0.057         |
|                 | 06/19/02    | 0.395              | <0.001  | <0.001        | 0.053         |
| MW - 4          | 08/21/01    | 0.001              | <0.001  | <0.001        | <0.001        |
|                 | 10/30/01    | <0.001             | <0.001  | <0.001        | <0.001        |
|                 | 02/18/02    | <0.001             | <0.001  | <0.001        | <0.001        |
|                 | 06/19/02    | <0.001             | <0.001  | <0.001        | <0.001        |
| MW - 5          | 08/21/01    | <0.001             | <0.001  | <0.001        | <0.001        |
|                 | 10/30/01    | <0.001             | <0.001  | <0.001        | <0.001        |
|                 | 02/18/01    | <0.001             | <0.001  | <0.001        | <0.001        |
|                 | 06/19/02    | <0.001             | <0.001  | <0.001        | <0.001        |
| MW - 6          | 08/21/01    | <0.001             | 0.038   | 0.060         | 0.295         |
|                 | 10/30/01    | <0.001             | 0.006   | 0.025         | 0.115         |
|                 |             |                    |         |               |               |

TABLE 3 (CONTINUED)

All Concentrations are in mg/L

| SAMPLE LOCATION | SAMPLE DATE | SW 846-8021B, 5030 |         |               |               |
|-----------------|-------------|--------------------|---------|---------------|---------------|
|                 |             | BENZENE            | TOLUENE | ETHYL-BENZENE | TOTAL XYLENES |
| MW - 7          | 08/21/01    | <0.001             | <0.001  | <0.001        | <0.001        |
|                 | 10/30/01    | <0.001             | <0.001  | <0.001        | <0.001        |
|                 | 02/18/02    | <0.001             | <0.001  | <0.001        | <0.001        |
|                 | 06/19/02    | <0.001             | <0.001  | <0.001        | <0.001        |
| MW - 8          | 08/21/01    | 0.009              | 0.004   | 0.032         | 0.087         |
|                 | 10/30/01    | 0.008              | <0.001  | 0.044         | 0.035         |
|                 | 02/18/02    | 0.009              | <0.001  | 0.063         | 0.014         |
|                 | 06/19/02    | 0.016              | <0.001  | 0.205         | 0.036         |
| MW - 9          | 08/21/01    | <0.001             | <0.001  | <0.001        | <0.001        |
|                 | 10/30/01    | <0.001             | <0.001  | <0.001        | <0.001        |
|                 | 02/18/02    | 0.001              | <0.001  | <0.001        | <0.001        |
|                 | 06/19/02    | <0.001             | <0.001  | <0.001        | <0.001        |
| MW - 10         | 08/21/01    | 0.360              | <0.001  | 0.002         | 0.022         |
|                 | 10/30/01    | 0.596              | <0.001  | 0.002         | 0.071         |
|                 | 02/18/02    | 0.981              | <0.001  | 0.002         | 0.051         |
|                 | 06/19/02    | 0.629              | <0.001  | 0.004         | 0.067         |
| MW - 11         | 08/21/01    | 0.003              | <0.001  | <0.001        | <0.001        |
|                 | 10/30/01    | 0.004              | <0.001  | <0.001        | <0.001        |
|                 | 02/18/02    | <0.001             | <0.001  | <0.001        | <0.001        |
|                 | 06/19/02    | 0.017              | <0.001  | <0.001        | <0.001        |
| MW - 12         | 08/21/01    | 0.001              | <0.001  | <0.001        | <0.001        |
|                 | 10/30/01    | 0.002              | <0.001  | <0.001        | <0.001        |
|                 | 02/18/02    | <0.001             | <0.001  | <0.001        | <0.001        |
|                 | 06/19/02    | <0.001             | <0.001  | <0.001        | <0.001        |
| MW - 13         | 08/21/01    | 0.002              | <0.001  | <0.001        | <0.001        |
|                 | 10/30/01    | 0.003              | <0.001  | <0.001        | <0.001        |
|                 | 02/18/02    | 0.013              | <0.001  | <0.001        | <0.001        |
|                 | 06/19/02    | 0.008              | <0.001  | <0.001        | <0.001        |
| RW - 1          | 09/14/00    | 0.007              | 0.004   | <0.001        | 0.011         |
|                 | 11/15/00    | 0.022              | 0.021   | 0.005         | 0.010         |
|                 | 02/14/01    | 0.016              | 0.014   | 0.005         | 0.010         |
| RW - 5          | 08/21/01    | 0.007              | 0.027   | 0.014         | 0.060         |
|                 | 02/18/02    | 0.007              | 0.001   | 0.019         | 0.027         |
|                 | 06/19/02    | 0.006              | 0.015   | 0.012         | 0.024         |
| SB - 10         | 05/10/02    | <0.001             | <0.001  | <0.001        | <0.001        |
|                 |             |                    |         |               |               |

TABLE 3 CONTINUED

GROUND WATER CHEMISTRY TABLE

EOTT ENERGY CORP.

DARR ANGELL #4

LEA COUNTY, NM

ETGI Project # EO 2075

*All concentrations are in mg/l.*

| SAMPLE<br>LOCATION | SAMPLE<br>DATE | Methods: EPA 375.4, 325.2, 310.1, 160.1 |          |                      |     |
|--------------------|----------------|-----------------------------------------|----------|----------------------|-----|
|                    |                | Sulfate                                 | Chloride | Alkalinity,<br>total | TDS |
| MW - 4             | 08/21/01       | 91.5                                    | 53.8     | 680                  | 460 |
| MW - 5             | 08/21/01       | 115                                     | 59.6     | 1400                 | 504 |
| MW - 6             | 08/21/01       | 112                                     | 55.9     | 680                  | 570 |
| MW - 7             | 08/21/01       | 99.9                                    | 58       | 2000                 | 533 |
| MW - 8             | 08/21/01       | 89.6                                    | 223      | 1200                 | 806 |
| MW - 9             | 08/21/01       | 118                                     | 71.2     | 720                  | 687 |
| MW - 10            | 08/21/01       | 114                                     | 59.6     | 600                  | 551 |
| MW - 11            | 08/21/01       | 109                                     | 57.1     | 520                  | 478 |
| MW - 12            | 08/21/01       | 126                                     | 57.5     | 1000                 | 551 |
| MW - 13            | 08/21/01       | 119                                     | 55.5     | 640                  | 570 |
| RW - 5             | 08/21/01       | 118                                     | 57.5     | 200                  | 543 |
|                    |                |                                         |          |                      |     |

TABLE 3 CONTINUED

## CONCENTRATIONS OF METALS IN GROUNDWATER

EOTT ENERGY CORP.  
DARR ANGELL #4  
LEA COUNTY, NM  
ETGI Project # EO 2075C

All water concentrations are in mg/L

| SAMPLE LOCATION                                         | SAMPLE DATE | SAMPLE TYPE | Aluminum | Arsenic | Barium | Boron | Cadmium | Calcium | Chromium | Cobalt | Copper | Iron   | Lead  | Magnesium | Manganese | Mercury | Molybdenum | Nickel | Potassium | Selenium | Silver | Sodium | Zinc   |
|---------------------------------------------------------|-------------|-------------|----------|---------|--------|-------|---------|---------|----------|--------|--------|--------|-------|-----------|-----------|---------|------------|--------|-----------|----------|--------|--------|--------|
| EPA SW846-6010B, 7470, 7761, 200.7, 245.1, 258.1, 272.2 |             |             |          |         |        |       |         |         |          |        |        |        |       |           |           |         |            |        |           |          |        |        |        |
| MW - 4                                                  | 08/21/01    | WATER       | 8.52     | <0.05   | 0.278  | 0.156 | <0.005  | 258     | 0.0172   | <0.02  | <0.02  | 7.37   | <0.02 | 16.8      | 0.167     | <0.0002 | <0.02      | <0.02  | 5.19      | <0.05    | <0.002 | 41.7   | 0.0288 |
| MW - 5                                                  | 08/21/01    | WATER       | 13.2     | <0.05   | 0.325  | 0.146 | <0.005  | 744     | 0.0296   | 0.0221 | 0.0525 | 8.27   | <0.02 | 32        | 0.379     | <0.0002 | <0.02      | 0.0333 | 6.17      | <0.05    | 0.0028 | 41.4   | 0.112  |
| MW - 6                                                  | 08/21/01    | WATER       | <0.2     | <0.05   | 0.115  | 0.165 | <0.005  | 303     | <0.01    | <0.02  | <0.02  | 0.0559 | <0.02 | 12.2      | 0.108     | <0.0002 | <0.02      | <0.02  | 3.84      | <0.05    | 0.0154 | 43.6   | <0.01  |
| MW - 7                                                  | 08/21/01    | WATER       | 1.08     | <0.05   | 0.104  | 0.152 | <0.005  | 527     | <0.01    | <0.02  | <0.02  | 0.612  | <0.02 | 10.5      | 0.0634    | <0.0002 | <0.02      | <0.02  | 3.73      | <0.05    | <0.002 | 41.9   | <0.01  |
| MW - 8                                                  | 08/21/01    | WATER       | <0.2     | <0.05   | 0.133  | 0.159 | <0.005  | 290     | <0.01    | <0.02  | <0.02  | <0.05  | <0.02 | 12        | 0.116     | <0.0002 | <0.02      | <0.02  | 4.03      | <0.05    | <0.002 | 109    | <0.01  |
| MW - 9                                                  | 08/21/01    | WATER       | <0.2     | <0.05   | 0.112  | 0.163 | <0.005  | 293     | <0.01    | <0.02  | <0.02  | <0.05  | <0.02 | 13.2      | 0.067     | <0.0002 | <0.02      | <0.02  | 4.33      | <0.05    | <0.002 | 71.7   | <0.01  |
| MW - 10                                                 | 08/21/01    | WATER       | <0.2     | <0.05   | 0.125  | 0.183 | <0.005  | 512     | <0.01    | <0.02  | <0.02  | <0.05  | <0.02 | 11        | 0.123     | <0.0002 | <0.02      | <0.02  | 3.77      | <0.05    | <0.002 | 46.7   | 0.0102 |
| MW - 11                                                 | 08/21/01    | WATER       | 0.485    | <0.05   | 0.0939 | 0.145 | <0.005  | 554     | <0.01    | <0.02  | <0.02  | 0.148  | <0.02 | 10.6      | 0.122     | <0.0002 | <0.02      | <0.02  | 3.73      | <0.05    | <0.002 | 42.3   | 0.0233 |
| MW - 12                                                 | 08/21/01    | WATER       | <0.2     | <0.05   | 0.106  | 0.148 | <0.005  | 619     | <0.01    | <0.02  | <0.02  | 0.0576 | <0.02 | 10.4      | 0.0917    | <0.0002 | <0.02      | <0.02  | 3.88      | <0.05    | <0.002 | 42.7   | 0.0105 |
| MW - 13                                                 | 08/21/01    | WATER       | 0.454    | <0.05   | 0.116  | 0.163 | <0.005  | 572     | <0.01    | <0.02  | <0.02  | 0.277  | <0.02 | 11.6      | 0.116     | <0.0002 | <0.02      | <0.02  | 3.99      | <0.05    | <0.002 | 47.8   | 0.0221 |
| RW - 5                                                  | 08/21/01    | WATER       | <0.2     | <0.05   | 0.106  | 0.134 | <0.005  | 408     | <0.01    | <0.02  | <0.02  | <0.05  | <0.02 | 10.8      | 0.0843    | <0.0002 | <0.02      | <0.02  | 2.47      | <0.05    | <0.002 | 38     | <0.01  |

TABLE 3 CONTINUED

## CONCENTRATIONS OF SEMI-VOLATILES IN GROUNDWATER

EOTT ENERGY CORP.

DARR ANGELL #4

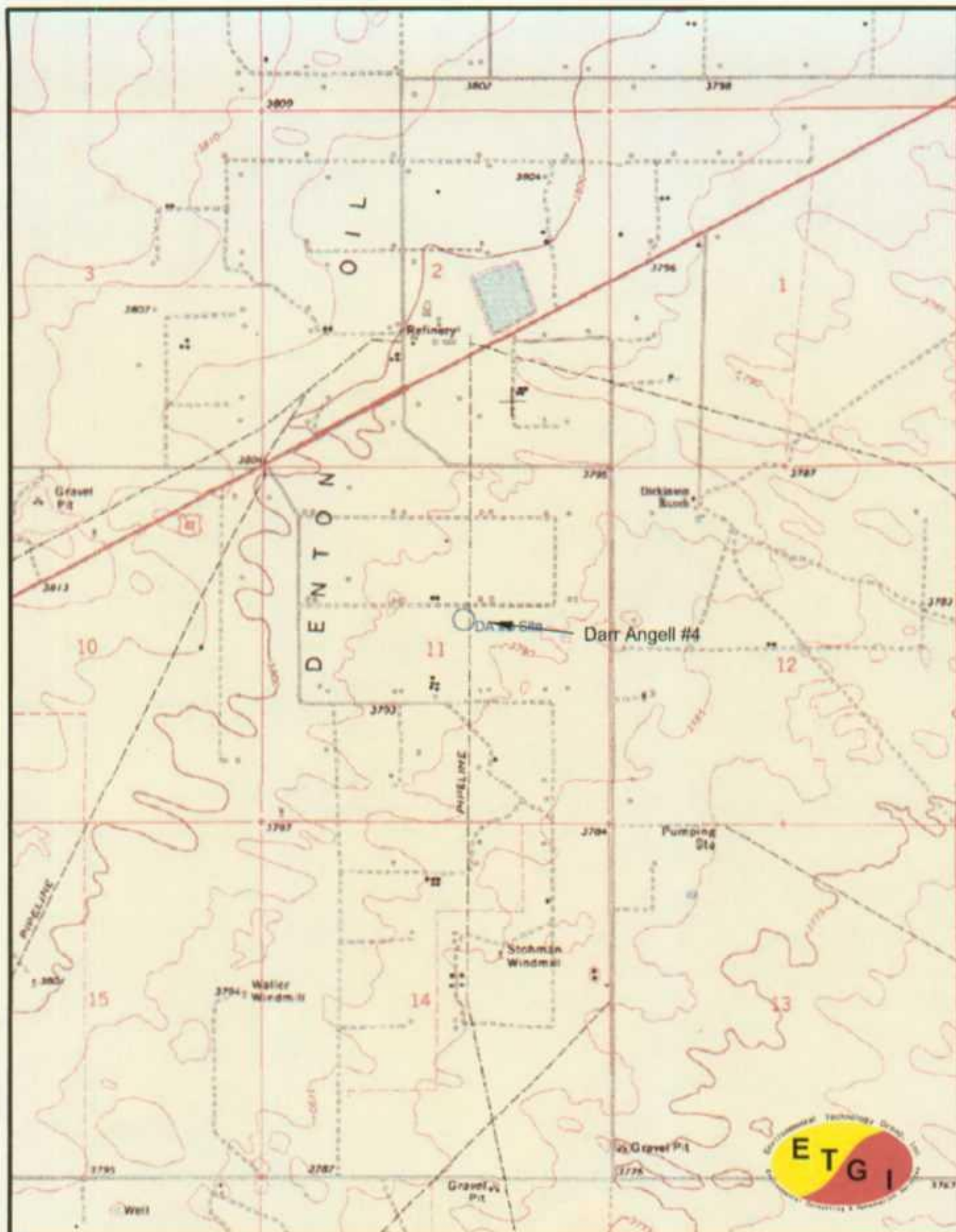
LEA COUNTY, NM

ETGI PROJECT # EO 2075

*All water concentrations are in mg/L*

| SAMPLE LOCATION        | SAMPLE DATE | SAMPLE TYPE | EPA SW846-8270C |                |            |                    |                |                |                      |                      |                    |                       |              |                        |             |              |        |
|------------------------|-------------|-------------|-----------------|----------------|------------|--------------------|----------------|----------------|----------------------|----------------------|--------------------|-----------------------|--------------|------------------------|-------------|--------------|--------|
|                        |             |             | Acenaphthene    | Acenaphthylene | Anthracene | Benzo[a]anthracene | Benzo[a]pyrene | Benzo[a]pyrene | Benzo[g,h,i]perylene | Benzo[k]fluoranthene | Benzo[a]anthracene | Dibenz[a,h]anthracene | Fluoranthene | Indeno(1,2,3-cd)pyrene | Naphthalene | Phenanthrene | Pyrene |
| Analyt Reporting Limit |             |             | 0.05            | 0.05           | 0.05       | 0.05               | 0.05           | 0.05           | 0.05                 | 0.05                 | 0.05               | 0.05                  | 0.05         | 0.05                   | 0.05        | 0.05         | 0.05   |
| MW - 4                 | 08/21/02    | WATER       | <0.05           | <0.05          | <0.05      | <0.05              | <0.05          | <0.05          | <0.05                | <0.05                | <0.05              | <0.05                 | <0.05        | <0.05                  | <0.05       | <0.05        | <0.05  |
| MW - 5                 | 08/21/01    | WATER       | <0.05           | <0.05          | <0.05      | <0.05              | <0.05          | <0.05          | <0.05                | <0.05                | <0.05              | <0.05                 | <0.05        | <0.05                  | <0.05       | <0.05        | <0.05  |
| MW - 6                 | 08/21/01    | WATER       | 0.096           | <0.05          | <0.05      | <0.05              | <0.05          | <0.05          | <0.05                | <0.05                | <0.05              | <0.05                 | <0.05        | 0.695                  | <0.05       | 7.31         | 0.526  |
| MW - 7                 | 08/21/01    | WATER       | <0.05           | <0.05          | <0.05      | <0.05              | <0.05          | <0.05          | <0.05                | <0.05                | <0.05              | <0.05                 | <0.05        | <0.05                  | <0.05       | <0.05        | <0.05  |
| MW - 8                 | 08/21/01    | WATER       | <0.05           | <0.05          | <0.05      | <0.05              | <0.05          | <0.05          | <0.05                | <0.05                | <0.05              | <0.05                 | <0.05        | <0.05                  | <0.05       | 1.06         | <0.05  |
| MW - 9                 | 08/21/01    | WATER       | <0.05           | <0.05          | <0.05      | <0.05              | <0.05          | <0.05          | <0.05                | <0.05                | <0.05              | <0.05                 | <0.05        | <0.05                  | <0.05       | <0.05        | <0.05  |
| MW - 10                | 08/21/01    | WATER       | <0.05           | <0.05          | <0.05      | <0.05              | <0.05          | <0.05          | <0.05                | <0.05                | <0.05              | <0.05                 | <0.05        | <0.05                  | <0.05       | <0.05        | <0.05  |
| MW - 11                | 08/21/01    | WATER       | <0.05           | <0.05          | <0.05      | <0.05              | <0.05          | <0.05          | <0.05                | <0.05                | <0.05              | <0.05                 | <0.05        | <0.05                  | <0.05       | <0.05        | <0.05  |
| MW - 12                | 08/21/01    | WATER       | <0.05           | <0.05          | <0.05      | <0.05              | <0.05          | <0.05          | <0.05                | <0.05                | <0.05              | <0.05                 | <0.05        | <0.05                  | <0.05       | <0.05        | <0.05  |
| MW - 13                | 08/21/01    | WATER       | <0.05           | <0.05          | <0.05      | <0.05              | <0.05          | <0.05          | <0.05                | <0.05                | <0.05              | <0.05                 | <0.05        | <0.05                  | <0.05       | <0.05        | <0.05  |
| RW - 5                 | 08/21/01    | WATER       | <0.05           | <0.05          | <0.05      | <0.05              | <0.05          | <0.05          | <0.05                | <0.05                | <0.05              | <0.05                 | <0.05        | 0.101                  | <0.05       | 0.07         | <0.05  |

## FIGURES



**Site Location**

33° 02' 17.4" N 103° 10' 04.4" W

NW 1/4 NE 1/4 Sec 11 T15S R37E

SW 1/4 SE 1/4 Sec 2 T15S R37E

**Figure 1**  
**Site Location Map**

EOTT Energy Corp.  
Darri Angell #4  
Lea County, NM

**Environmental Technology**  
**Group, INC.**

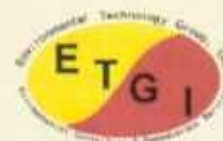
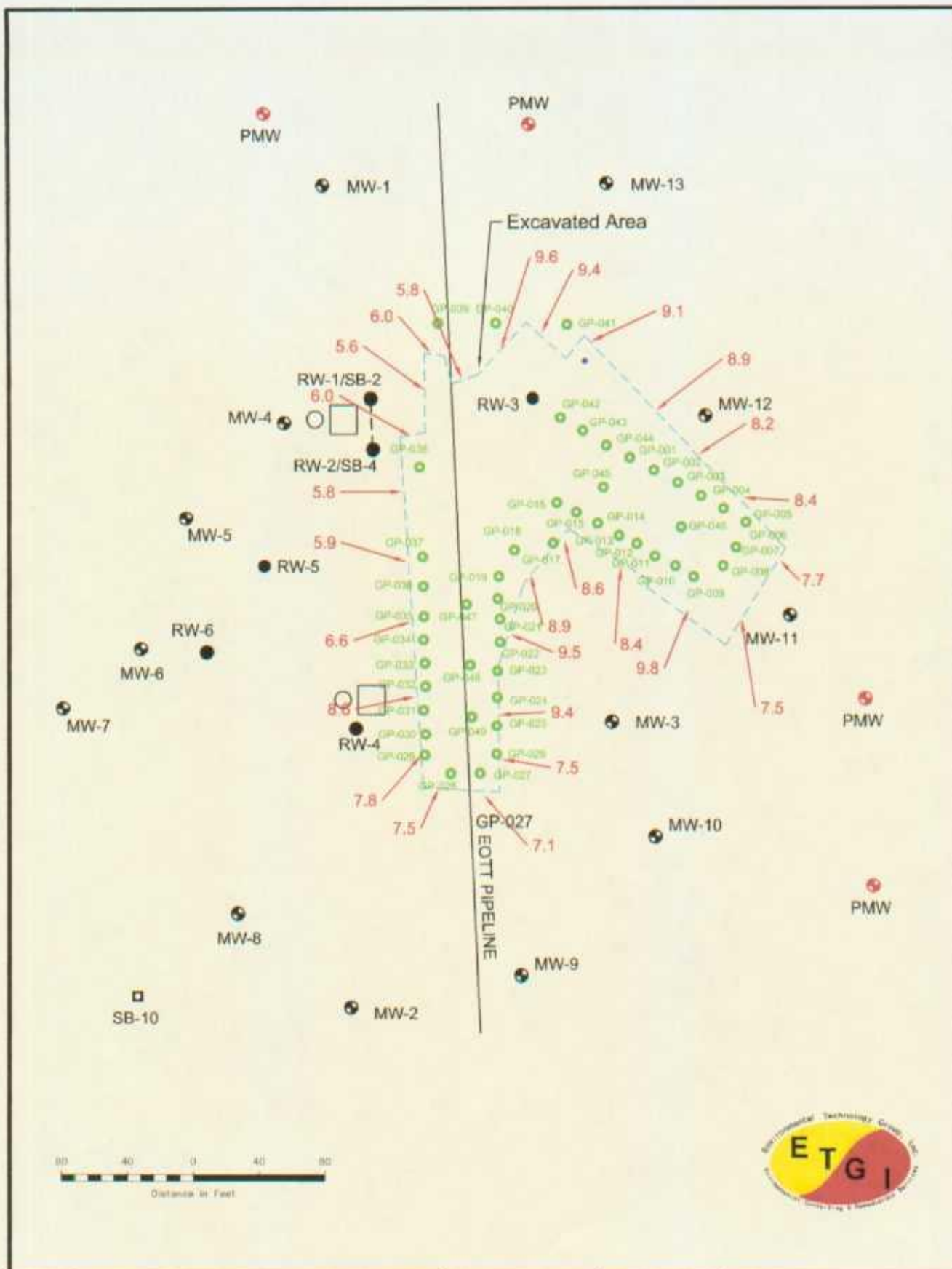
Scale: 1"=2000'

Prep By: JGJ

Checked By: RE

March 11, 2002

ETIG Project # EOT2075C



**LEGEND:**

- Monitor Well Location
- Recovery Well Location
- Product Recovery Line

- Poly Tank
- Shed
- GroundProbe Sample Point

7.1 Readings taken in core obtained with a probe-injection detector

Site Location:  
 37° 02' 11.4" N, 102° 10' 36.4" W  
 NW 1/4 Sec 14, T14N, R10E  
 SW 1/4 Sec 14, T14N, R10E

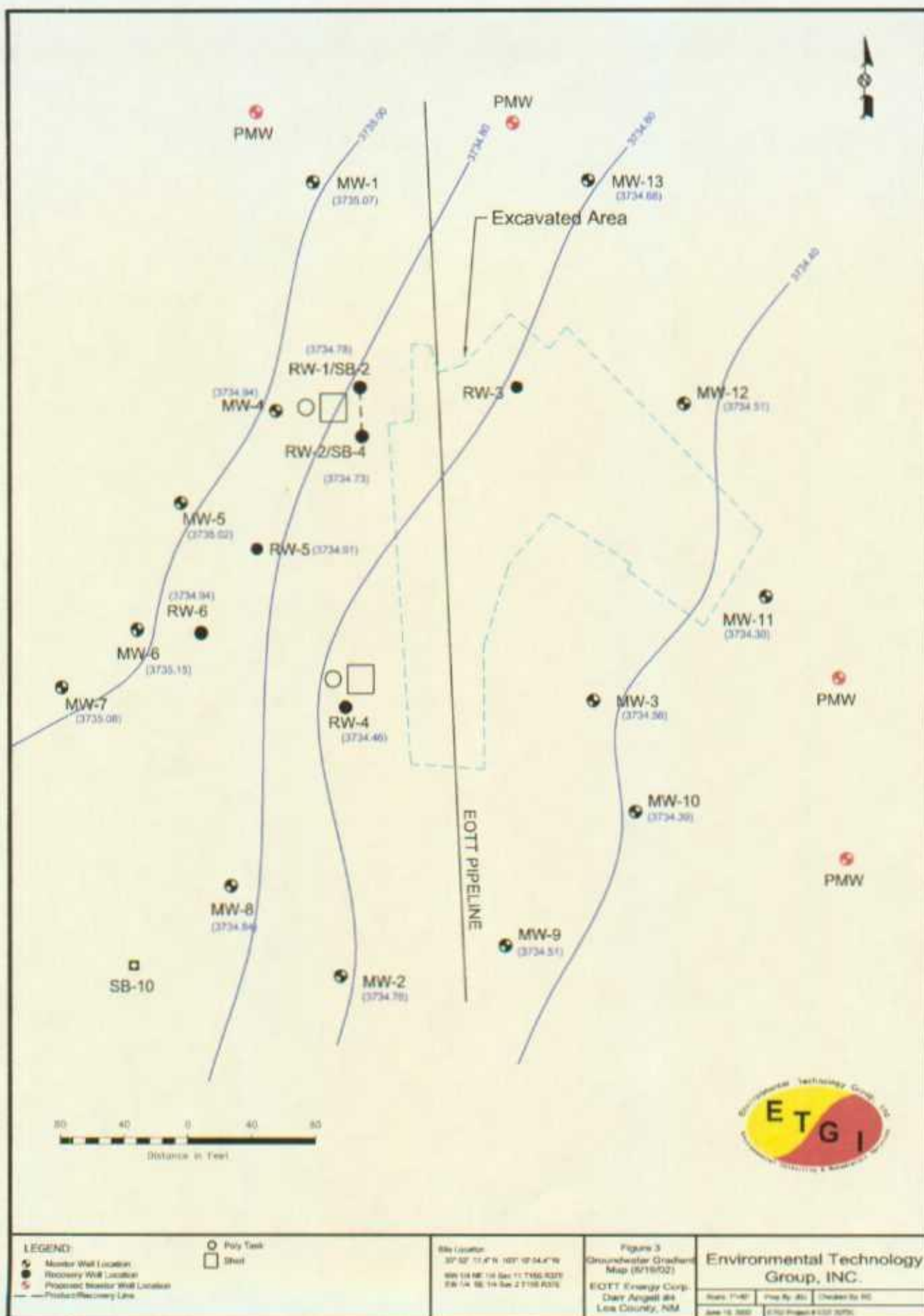
**Figure 2  
Site Map**

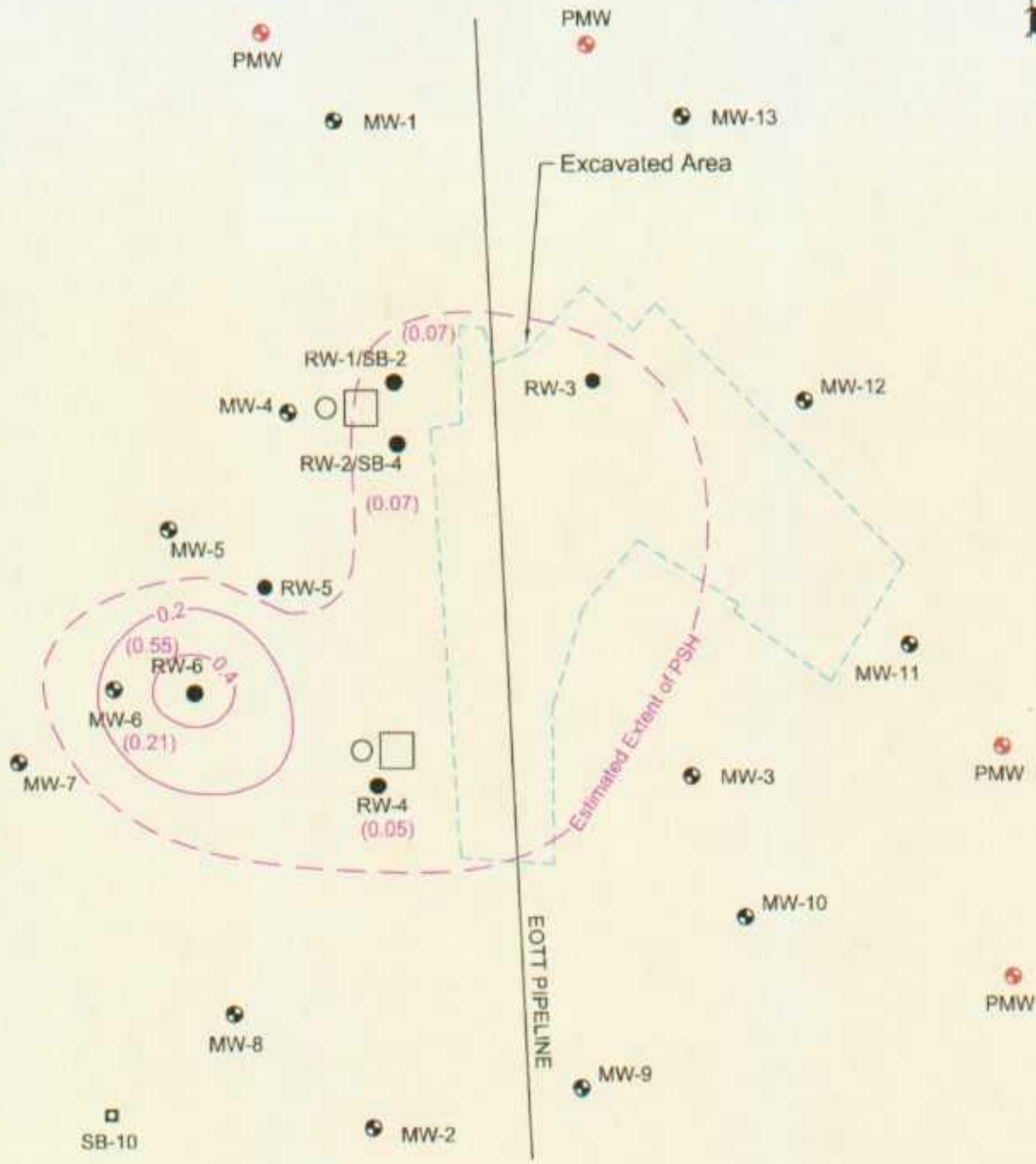
EOTT Energy Corp.  
 Dan Angel #4  
 Lee County, NM

**Environmental Technology Group, Inc.**

|                  |                          |                |
|------------------|--------------------------|----------------|
| Scale: 1"=50'    | Prep By: JLC             | Checked By: RB |
| January 23, 2003 | ETGI Project # 807 2003C |                |







**LEGEND:**

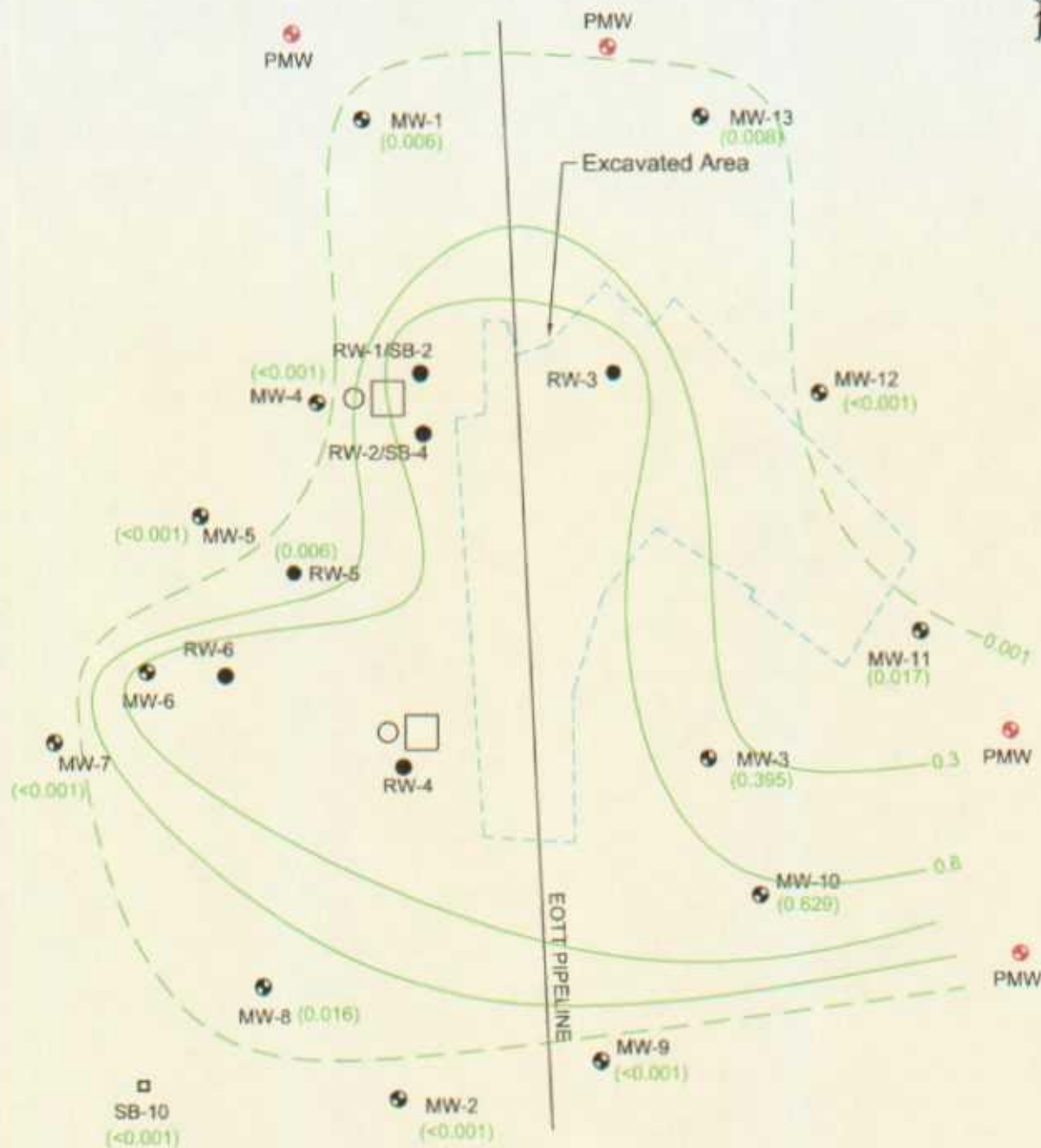
- Monitor Well Location
- Recovery Well Location
- Proposed Monitor Well Location
- Proposed Recovery Line
- Prod Tank
- Shed
- PSH Thickness (in Feet)

Site Location  
32° 52' 11.4" N 102° 10' 24.4" W  
480' 14" NE 1/4 Sec 11 T15S R27E  
32° 14' 32" 1/4 Sec 1 T15S R27E

Figure 4  
Inspect PSH  
Thickness (8/19/02)  
EDT Energy Corp.  
Darr Angell #4  
Lee County, NM

**Environmental Technology Group, INC.**

|               |                         |                |
|---------------|-------------------------|----------------|
| Scale: 1"=80' | Prep By: JGJ            | Checked By: RE |
| June 15, 2002 | ETG Project # DYT 2076C |                |



**LEGEND:**

- Monitor Well Location
- Recovery Well Location
- Proposed Monitor Well Location
- Product Recovery Line

- Poly Tank
- Shed

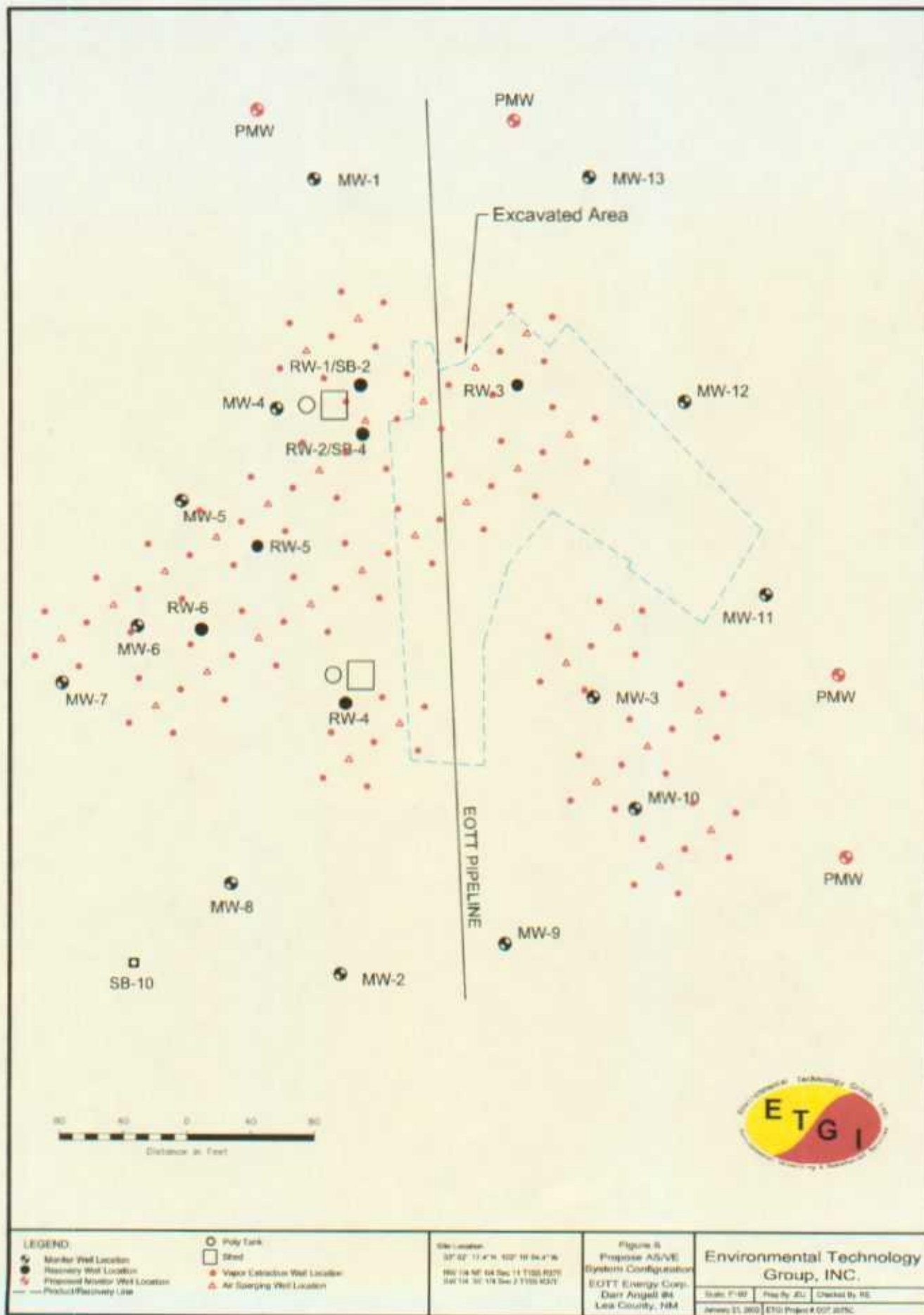
(0.38) Benzene Concentrations in mg/L

Site Location:  
32° 52' 17.4" N 103° 30' 54.6" W  
NAD 83 UTM 14 S, 56 11 1159 8029  
14S 56 11 1159 8029

Figure 5  
Benzene Concentrations  
in Groundwater (5/10/02)  
EOTT Energy Corp.  
Darr Angel #4  
Lea County, NM

**Environmental Technology  
Group, INC.**

Scale: 1"=80' Plot By: JSC Checked By: ME  
June 10, 2002 ETTG Project # EOTT 2075C



## **APPENDIX**

## **APPENDICES**

**APPENDIX A**  
**C-141 LEAK REPORT**

Artesia, NM 88210  
District III - (505) 334-6178  
1000 Rio Brazos Road  
Artesia, NM 87410  
District IV - (505) 827-7131

2040 South Pacheco Street  
Santa Fe, New Mexico 87505  
(505) 827-7131

Submit 2 copies  
Appropriate District  
Office in accordance  
with Rule 116  
back side of form

Release Notification and Corrective Action

OPERATOR

☒ Initial Report ☐ Final Report

|               |                               |               |              |
|---------------|-------------------------------|---------------|--------------|
| Name          | EOTT Energy Pipeline          | Contact       | Lennah Frost |
| Address       | PO Box 1660, Midland Tx 79702 | Telephone No  | 915/6843467  |
| Facility Name | Denton Gathering System       | Facility Type | Pipeline     |
| Surface Owner | Darr Angell                   | Mineral Owner |              |
| Lease No.     |                               |               |              |

LOCATION OF RELEASE

|            |         |          |       |               |                  |               |                |        |
|------------|---------|----------|-------|---------------|------------------|---------------|----------------|--------|
| Lot/Letter | Section | Township | Range | Feet from the | North/South Line | Feet from the | East/West Line | County |
|            | 11      | 15S      | 37E   |               |                  |               |                | Lea    |

NATURE OF RELEASE

|                             |                                                                                                           |                                           |                      |                            |                |
|-----------------------------|-----------------------------------------------------------------------------------------------------------|-------------------------------------------|----------------------|----------------------------|----------------|
| Type of Release             | Crude oil                                                                                                 | Volume of Release                         | 10 bbl/s             | Volume Recovered           | 0              |
| Source of Release           | Pipeline                                                                                                  | Date and Hour of Occurrence               | Unknown              | Date and Hour of Discovery | 11/9/99 1:30pm |
| Was Immediate Notice Given? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required | If YES, To Whom?                          | Sylvia - voice mail  |                            |                |
| By Whom?                    | Lennah Frost                                                                                              | Date and Hour                             | 11/9/99 - 2:25pm CDT |                            |                |
| Was a Watercourse Reached?  | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No                                       | If YES, Volume Inspecting the Watercourse |                      |                            |                |

If a Watercourse was Inspected, Describe Fully (Attach Additional Sheets If Necessary)

Describe Cause of Problem and Remedial Action Taken (Attach Additional Sheets If Necessary)

Pipeline Corrosion. Leak was clamped off & well  
he repaired ASAP.

Describe Area Affected and Cleanup Action Taken (Attach Additional Sheets If Necessary)

There was only a small surface stain but encountered  
more contamination while digging out line to  
repair leak. Waiting on landowner to proceed.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

|                        |               |                           |                          |
|------------------------|---------------|---------------------------|--------------------------|
| Signature              | Lennah Frost  | OIL CONSERVATION DIVISION |                          |
| Printed Name           | Lennah Frost  | Approved by               | District Supervisor:     |
| Title                  | SR. ENV. Eng. | Approval Date:            | Expiration Date:         |
| Date                   | 11-10-99      | Phone                     | 915/6843467              |
| Condition of Approval: |               | Attached                  | <input type="checkbox"/> |

56



District I  
1625 N. French Dr., Hobbs, NM 88240  
District II  
1301 W. Grand Avenue, Artesia, NM 88210  
District III  
1000 Rio Brazos Road, Aztec, NM 87410  
District IV  
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico  
Energy Minerals and Natural Resources

Oil Conservation Division  
1220 South St. Francis Dr.  
Santa Fe, NM 87505

Form C-141  
Revised March 17, 1999

Submit 2 Copies to appropriate  
District Office in accordance  
with Rule 116 on back  
side of form

**Release Notification and Corrective Action**

**OPERATOR "INFORMATION ONLY NON-REPORTABLE"** ☒ Initial Report ☐ Final Report

|                                                                    |                                        |
|--------------------------------------------------------------------|----------------------------------------|
| Name of Company<br>EOTT Energy Pipeline                            | Contact<br>Frank Hernandez             |
| Address<br>5805 East Highway 80 / P.O. Box 1660, Midland, TX 79703 | Telephone No.<br>915.638.3799          |
| Facility Name<br>Darr Angell #4 #2001-101876                       | Facility Type<br>8" Crude Oil Pipeline |

|                              |               |           |
|------------------------------|---------------|-----------|
| Surface Owner<br>Darr Angell | Mineral Owner | Lease No. |
|------------------------------|---------------|-----------|

**LOCATION OF RELEASE**

|                  |               |                 |              |               |                  |               |                |                                                    |
|------------------|---------------|-----------------|--------------|---------------|------------------|---------------|----------------|----------------------------------------------------|
| Unit Letter<br>B | Section<br>11 | Township<br>15S | Range<br>37E | Feet from the | North/South Line | Feet from the | East/West Line | County: Lea<br>Lat.: 32°02'20"N<br>Lon: 103°10'3"W |
|------------------|---------------|-----------------|--------------|---------------|------------------|---------------|----------------|----------------------------------------------------|

**NATURE OF RELEASE**

|                                                                                                                                          |                                                          |                                                |
|------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------|------------------------------------------------|
| Type of Release<br>Crude Oil                                                                                                             | Volume of Release<br>150 bbls                            | Volume Recovered<br>95 bbls                    |
| Source of Release<br>8" Steel Pipeline                                                                                                   | Date and Hour of Occurrence<br>Prior to 2-2-2001 5:20 AM | Date and Hour of Discovery<br>2-2-2001 5:20 AM |
| Was Immediate Notice Given?<br><input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required | If YES, To Whom?<br>Sylvia Dickey, Hobbs NMOCD           |                                                |
| By Whom?<br>Wayne Brunette EOTT DES                                                                                                      | Date and Hour<br>2-2-01 8:00 AM                          |                                                |
| Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No                                           | If YES, Volume Impacting the Watercourse.                |                                                |

If a Watercourse was Impacted, Describe Fully.\*

Describe Cause of Problem and Remedial Action Taken.\*

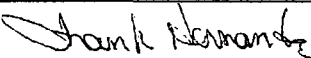
The cause of the release was internal corrosion. A pipe repair clamp was installed, liquids were recovered, and the near surface soil stockpiled on a plastic barrier. Ground water at this site was impacted by a prior leak and is being remediated at this site.

Describe Area Affected and Cleanup Action Taken.\*

Spill Area = ~12,702 ft<sup>2</sup>. ~80' X ~150' Near surface soil has been characterized in accordance with 40 CFR 261 and disposed of in the Goo-Yea Landfarm NMOCD approved facility.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

**OIL CONSERVATION DIVISION**

|                                                                                                |                                  |                                   |
|------------------------------------------------------------------------------------------------|----------------------------------|-----------------------------------|
| Signature:  | Approved by District Supervisor: |                                   |
| Printed Name: Frank Hernandez                                                                  |                                  |                                   |
| Title: District Environmental Supervisor                                                       | Approval Date:                   | Expiration Date:                  |
| Date: September 11, 2002 Phone: 915.638.3799                                                   | Conditions of Approval:          | Attached <input type="checkbox"/> |

\* Attach Additional Sheets If Necessary

**APPENDIX B**  
**WATER WELL SEARCH SURVEY**

Township: 15S    Range: 37E    Sections: 13,14,15

NAD27   X:    Y:    Zone:    Search Radius:

County:    Basin:    Number:    Suffix:

Owner Name: (First)    (Last)    ☐ Non-Domestic    ☐ Domestic    ☒ All

Well / Surface Data Report

Clear Form

Avg Depth to Water Report

Water Column Report

WATERS Menu

Help

WELL / SURFACE DATA REPORT 09/19/2002

| (acre ft per annum) |     |          |                               | (quarters are 1=NW 2=NE 3=SW 4=SE)<br>(quarters are biggest to smallest) |         |     |     |     |   |   |   | X Y are in Feet |   | UTM are in Meters) |          |         | Sta      |     |
|---------------------|-----|----------|-------------------------------|--------------------------------------------------------------------------|---------|-----|-----|-----|---|---|---|-----------------|---|--------------------|----------|---------|----------|-----|
| DB File Nbr         | Use | Division | Owner                         | Well Number                                                              | Source  | Tws | Rng | Sec | q | q | q | Zone            | X | Y                  | UTM Zone | Easting | Northing | Dat |
| L 00956             | PRO | 3        | MCALESTER FUEL AND OIL CO.    | L 00956                                                                  | Shallow | 15S | 37E | 15  | 2 | 2 |   |                 |   |                    | 13       | 669877  | 3655089  | 10/ |
| L 01045             | PRO | 3        | GUY FOR MCALESTER FUEL C BOYD | L 01045                                                                  | Shallow | 15S | 37E | 14  | 2 | 3 | 1 |                 |   |                    | 13       | 670996  | 3654802  | 10/ |
|                     |     |          |                               | L 01045 APPRO                                                            | Shallow | 15S | 37E | 14  | 2 | 3 | 1 |                 |   |                    | 13       | 670996  | 3654802  | 10/ |
| L 01080             | PRO | 3        | MCALESTER FUEL CO.            | L 01080 APPRO                                                            | Shallow | 15S | 37E | 14  | 2 | 2 | 1 |                 |   |                    | 13       | 671392  | 3655209  | 03/ |
| L 01110             | PRO | 3        | GULF OIL CORPORATION          | L 01110 APPRO                                                            | Shallow | 15S | 37E | 14  | 2 | 1 | 1 |                 |   |                    | 13       | 670988  | 3655204  | 10/ |
|                     |     |          |                               | L 01110 CLW                                                              | Shallow | 15S | 37E | 14  | 2 | 1 | 1 |                 |   |                    | 13       | 670988  | 3655204  | 10/ |
| L 01199             | PRO | 3        | GULF OIL CORP.                | L 01199 APPRO                                                            | Shallow | 15S | 37E | 14  | 1 | 4 | 2 |                 |   |                    | 13       | 670792  | 3654797  | 07/ |
| L 01207             | PRO | 0        | PARKER DRILLING CO.           | L 01207 APPRO                                                            | Shallow | 15S | 37E | 15  | 2 | 2 |   |                 |   |                    | 13       | 669877  | 3655089  | 07/ |
| L 01237             | PRO | 3        | PARKER DRILLING CO.           | L 01237 APPRO                                                            | Shallow | 15S | 37E | 15  | 2 | 2 |   |                 |   |                    | 13       | 669877  | 3655089  | 10/ |
| L 02382             | DOM | 3        | GULF REFINING COMPANY         | L 02382                                                                  | Shallow | 15S | 37E | 14  | 2 | 4 |   |                 |   |                    | 13       | 671501  | 3654708  | 11/ |
|                     |     |          |                               | L 02382 APPRO                                                            | Shallow | 15S | 37E | 14  | 2 | 4 |   |                 |   |                    | 13       | 671501  | 3654708  | 11/ |
| L 07953             | STK | 3        | JOE MCFALLS                   | L 07953                                                                  | Shallow | 15S | 37E | 15  | 1 | 4 | 3 |                 |   |                    | 13       | 668976  | 3654574  | 09/ |

Record Count: 12

Back

DB File Nbr: L 00956

Primary Purpose: PRO 72-12-1 PROSPECTING OR DEVELOPMENT OF NATURAL RESOURCE

Primary Status: PMT Permit

Total Acres: 0

Total Diversion: 3

Owner: MCALISTER FUEL AND OIL CO.

Documents on File

| Doc   | File/Act   | Status      | 1 | 2     | 3 | Trans Desc | From/To | Acres | Diversion | Consumptive |
|-------|------------|-------------|---|-------|---|------------|---------|-------|-----------|-------------|
| 72121 | 11/03/1949 | PMT LOG ABS | L | 00956 |   |            | T       |       |           | 3           |

(qtr are 1=NW 2=NE 3=SW 4=SE)

Point of Diversion

| POD Number | Source  | Tws | Rng | Sec | q | q | q | Zone | X | Y | UTM Zone | Easting | Northing | Latitude | Longitude | Other Location Description |
|------------|---------|-----|-----|-----|---|---|---|------|---|---|----------|---------|----------|----------|-----------|----------------------------|
| L 00956    | Shallow | 15S | 37E | 15  | 2 | 2 |   |      |   |   | 13       | 669877  | 3655089  | 33       | 1 15.57   | 103 11 .15                 |

New Mexico Office of the State Engineer  
Water Right Summary

Back

DB File Nbr: L 01045

Primary Purpose: PRO 72-12-1 PROSPECTING OR DEVELOPMENT OF NATURAL RESOURCE

Primary Status: PMT Permit

Total Acres:

Total Diversion: 3

Owner: GUY FOR MCALESTER FUEL C BOYD

Documents on File

| Doc   | File/Act   | Status      | 1 | 2     | 3 | Trans | Desc | From/To | Acres | Diversion | Consumptive |
|-------|------------|-------------|---|-------|---|-------|------|---------|-------|-----------|-------------|
| 72121 | 10/30/1950 | PMT LOG ABS | L | 01045 |   |       |      | T       |       | 3         |             |

(qtr are 1=NW 2=NE 3=SW 4=SE)

(qtr are biggest to smallest

| Point of Diversion | Source  | Tws | Rng | Sec | q | q | q |
|--------------------|---------|-----|-----|-----|---|---|---|
| L 01045            | Shallow | 15S | 37E | 14  | 2 | 3 | 1 |
| L 01045 APPRO      | Shallow | 15S | 37E | 14  | 2 | 3 | 1 |

UTM are in Meters)

| UTM Zone | Easting | Northing | Latitude  | Longitude    | Other Location Description |
|----------|---------|----------|-----------|--------------|----------------------------|
| 13       | 670996  | 3654802  | 33 1 2.33 | 103 10 13.43 |                            |
| 13       | 670996  | 3654802  | 33 1 2.33 | 103 10 13.43 |                            |

New Mexico Office of the State Engineer  
Water Right Summary

Back

DB File Nbr: L 01080  
Primary Purpose: PRO 72-12-1 PROSPECTING OR DEVELOPMENT OF NATURAL RESOURCE  
Primary Status: PMT Permit  
Total Acres:  
Total Diversion: 3  
Owner: MCALESTER FUEL CO.

| Documents on File                                               |            |             |     |       |   |            |         |       |                            |
|-----------------------------------------------------------------|------------|-------------|-----|-------|---|------------|---------|-------|----------------------------|
| Doc                                                             | File/Act   | Status      | 1   | 2     | 3 | Trans Desc | From/To | Acres | Diversion Consumptive      |
| 72121                                                           | 03/07/1951 | PMT LOG ABS | L   | 01080 |   |            | T       |       | 3                          |
| (qtr are 1=NW 2=NE 3=SW 4=SE)                                   |            |             |     |       |   |            |         |       |                            |
| (qtr are biggest to smallest X Y are in Feet UTM are in Meters) |            |             |     |       |   |            |         |       |                            |
| Point of Diversion                                              | Source     | Tws         | Rng | Sec   | q | q          | q       | Zone  | X Y                        |
| POD Number                                                      | Shallow    | 15S         | 37E | 14    | 2 | 2          | 1       | 13    | 671392                     |
| L 01080 APPRO                                                   |            |             |     |       |   |            |         |       | 3655209                    |
|                                                                 |            |             |     |       |   |            |         |       | 671392                     |
|                                                                 |            |             |     |       |   |            |         |       | 33                         |
|                                                                 |            |             |     |       |   |            |         |       | 1                          |
|                                                                 |            |             |     |       |   |            |         |       | 15.33                      |
|                                                                 |            |             |     |       |   |            |         |       | 103                        |
|                                                                 |            |             |     |       |   |            |         |       | 9                          |
|                                                                 |            |             |     |       |   |            |         |       | 57.89                      |
|                                                                 |            |             |     |       |   |            |         |       | Other Location Description |

New Mexico Office of the State Engineer  
Water Right Summary

Back

DB File Nbr: L 01110  
Primary Purpose: PRO 72-12-1 PROSPECTING OR DEVELOPMENT OF NATURAL RESOURCE  
Primary Status: PMT Permit  
Total Acres:  
Total Diversion: 3  
Owner: GULF OIL CORPORATION

Documents on File

| Doc   | File/Act   | Status | 1   | 2   | 3 | Trans | Desc | From/To | Acres | Diversion | Consumptive |
|-------|------------|--------|-----|-----|---|-------|------|---------|-------|-----------|-------------|
| 72121 | 08/24/1953 | PMT    | APR | ABS | L | 01110 |      | T       |       |           | 3           |
| 72121 | 04/24/1951 | PMT    | LOG | ABS | L | 01110 |      | T       |       |           | 3           |

(qtr are 1=NW 2=NE 3=SW 4=SE)

| Point of Diversion |         |     |     | (qtr are biggest to smallest) |   |   |   | X Y are in Feet |   | UTM are in Meters) |          | Latitude | Longitude | Other Location Description |
|--------------------|---------|-----|-----|-------------------------------|---|---|---|-----------------|---|--------------------|----------|----------|-----------|----------------------------|
| POD Number         | Source  | Tws | Rng | Sec                           | q | q | q | Zone            | X | Y                  | UTM Zone | Eastings | Northings |                            |
| L 01110 APPRO      | Shallow | 15S | 37E | 14                            | 2 | 1 | 1 |                 |   |                    | 13       | 670988   | 3655204   | 33 1 15.39 103 10 13.46    |
| L 01110 CLW        | Shallow | 15S | 37E | 14                            | 2 | 1 | 1 |                 |   |                    | 13       | 670988   | 3655204   | 33 1 15.39 103 10 13.46    |





New Mexico Office of the State Engineer  
Water Right Summary

Back

DB File Nbr: L 01207

Primary Purpose: PRO 72-12-1 PROSPECTING OR DEVELOPMENT OF NATURAL RESOURCE

Primary Status: PMT Permit

Total Acres:

Total Diversion: 0

Owner: PARKER DRILLING CO.

Documents on File

| Doc   | File/Act   | Status      | 1 | 2     | 3 | Trans Desc | From/To | Acres | Diversion | Consumptive |
|-------|------------|-------------|---|-------|---|------------|---------|-------|-----------|-------------|
| 72121 | 09/04/1951 | PMT LOG ABS | L | 01207 |   |            | T       |       |           | 3           |

(qtr are 1=NW 2=NE 3=SW 4=SE)

|                    |         |     |     |     |   |   |   |   |   |          |         |          |          |           |                            |
|--------------------|---------|-----|-----|-----|---|---|---|---|---|----------|---------|----------|----------|-----------|----------------------------|
| Point of Diversion | Source  | Tws | Rng | Sec | q | q | q | X | Y | UTM Zone | Easting | Northing | Latitude | Longitude | Other Location Description |
| L 01207 APPRO      | Shallow | 15S | 37E | 15  | 2 | 2 |   |   |   | 13       | 669877  | 3655089  | 33       | 1 15.57   | 103 11 .15                 |

New Mexico Office of the State Engineer  
Water Right Summary

Back

DB File Nbr: L 01237  
Primary Purpose: PRO 72-12-1 PROSPECTING OR DEVELOPMENT OF NATURAL RESOURCE  
Primary Status: PMT Permit  
Total Acres:  
Total Diversion: 3  
Owner: PARKER DRILLING CO.

Documents on File

| Doc   | File/Act   | Status      | 1 | 2     | 3 | Trans | Desc | From/To | Acres | Diversion | Consumptive |
|-------|------------|-------------|---|-------|---|-------|------|---------|-------|-----------|-------------|
| 72121 | 10/16/1951 | PMT LOG ABS | L | 01237 |   |       |      | T       |       |           | 3           |

(qtr are 1=NW 2=NE 3=SW 4=SE)

Point of Diversion

| POD Number    | Source  | Tws | Rng | Sec | q | q | q | q | X    | Y | are in Feet | UTM Zone | Easting | Northing | Latitude | Longitude | Other Location Description |     |
|---------------|---------|-----|-----|-----|---|---|---|---|------|---|-------------|----------|---------|----------|----------|-----------|----------------------------|-----|
| L 01237 APPRO | Shallow | 15S | 37E | 15  | 2 | 2 |   |   | Zone | X |             | 13       | 669877  | 3655089  | 33       | 1 15.57   | 103 11                     | .15 |

New Mexico Office of the State Engineer  
Water Right Summary

Back

DB File Nbr: L 02382  
Primary Purpose: DOM 72-12-1 DOMESTIC ONE HOUSEHOLD  
Primary Status: PMT Permit  
Total Acres:  
Total Diversion: 3  
Owner: GULF REFINING COMPANY

Documents on File

| Doc   | File/Act   | Status      | 1 | 2     | 3 | Trans | Desc | From/To | Acres | Diversion | Consumptive |
|-------|------------|-------------|---|-------|---|-------|------|---------|-------|-----------|-------------|
| 72121 | 10/15/1953 | PMT LOG ABS | L | 02382 |   |       |      | T       |       |           | 3           |

(qtr are 1=NW 2=NE 3=SW 4=SE)

| Point of Diversion | Source  | Tws | Rng | Sec | q | q | q | X | Y | UTM Zone | Easting | Northing | Latitude  | Longitude   | Other Location Description |
|--------------------|---------|-----|-----|-----|---|---|---|---|---|----------|---------|----------|-----------|-------------|----------------------------|
| L 02382            | Shallow | 15S | 37E | 14  | 2 | 4 |   | X |   | 13       | 671501  | 3654708  | 33 1 2.27 | 103 9 57.86 |                            |
| L 02382 APPRO      | Shallow | 15S | 37E | 14  | 2 | 4 |   |   |   | 13       | 671501  | 3654708  | 33 1 2.27 | 103 9 57.86 |                            |

New Mexico Office of the State Engineer  
Water Right Summary

Back

DB File Nbr: L 07953  
Primary Purpose: STK 72-12-1 LIVESTOCK WATERING  
Primary Status: PMT Permit  
Total Acres:  
Total Diversion: 3  
Owner: JOE MCFALLS

Documents on File

| Doc   | File/Act   | Status      | 1          | 2 | 3   | Trans Desc | From/To | Acres | Diversion | Consumptive |
|-------|------------|-------------|------------|---|-----|------------|---------|-------|-----------|-------------|
| 72121 | 07/26/1978 | PMT APR CNV | CONVERSION | L | 079 | T          |         |       |           | 3           |

Point of Diversion  
POD Number  
L 07953

(qtr are 1=NW 2=NE 3=SW 4=SE)  
(qtr are biggest to smallest  
Source Tws Rng Sec q q q  
Shallow 15S 37E 15 1 4 3

X Y are in Feet  
Zone X  
UTM are in Meters)  
UTM Zone Easting Northing Latitude Longitude  
13 668976 3654574 33 1 2.58 103 11 31.26  
Other Location Description





**Back**

72-12-1 PROSPECTING OR DEVELOPMENT OF NATURAL RESOURCE

Total Diversion: 3

Documents on File

(qtr are 1=NW 2=NE 3=SW 4=SE)

| Point of Diversion |         | (qtr are biggest to smallest |     |     |       |      | X Y are in Feet |   | UTM are in Meters) |        |          |          | Other Location Description |  |
|--------------------|---------|------------------------------|-----|-----|-------|------|-----------------|---|--------------------|--------|----------|----------|----------------------------|--|
| POD Number         | Source  | Tws                          | Rng | Sec | q q q | Zone | X               | Y | UTM_Zone           | Eastng | Northing | Latitude | Longitude                  |  |
| L 01117            | Shallow | 15S                          | 37E | 11  | 2 4 3 |      |                 |   | 13                 | 671368 | 3656215  | 33       | 1 54.49 103 9 57.98        |  |
| L 01117 APPRO      | Shallow | 15S                          | 37E | 11  | 2 4 3 |      |                 |   | 13                 | 671368 | 3656215  | 33       | 1 54.49 103 9 57.98        |  |

New Mexico Office of the State Engineer  
Water Right Summary

Back

DB File Nbr: L 01182  
Primary Purpose: DOM 72-12-1 DOMESTIC ONE HOUSEHOLD  
Primary Status: PMT Permdt  
Total Acres:  
Total Diversion: 3  
Owner: PHILLIPS PETROLEUM COMPANY

Documents on File

| Doc   | File/Act   | Status      | 1 | 2     | 3 | Trans_Desc | From/To | Acres | Diversion | Consumptive |
|-------|------------|-------------|---|-------|---|------------|---------|-------|-----------|-------------|
| 72121 | 08/07/1951 | PMT LOG ABS | L | 01182 |   |            | T       |       |           | 3           |

(qtr are 1=NW 2=NE 3=SW 4=SE)  
(qtr are biggest to smallest)  
Point of Diversion  
POD Number  
L 01182 APPRO  
Source  
Shallow  
Tws  
15S  
Rng  
37E  
Sec  
11  
q  
1  
q  
1  
q  
1

X Y are in Feet  
Zone  
X  
UTM are in Meters  
UTM Zone  
13  
Easting  
670149  
Northing  
3656804  
Latitude  
33 2 7.79  
Longitude  
103 10 44.7  
Other Location Description



New Mexico Office of the State Engineer  
Water Right Summary

Back

DB File Nbr: L 01283

Primary Purpose: PRO 72-12-1 PROSPECTING OR DEVELOPMENT OF NATURAL RESOURCE

Primary Status: PMT Permit

Total Acres:

Total Diversion: 3

Owner: PHILLIPS PETROLEUM COMPANY

Documents on File

| Doc                           | File/Act   | Status      | 1   | 2     | 3 | Trans | Desc | From/To | Acres | Diversion | Consumptive | UTM are in Meters) | UTM Zone | Easting | Northing | Latitude   | Longitude    | Other Location Description |
|-------------------------------|------------|-------------|-----|-------|---|-------|------|---------|-------|-----------|-------------|--------------------|----------|---------|----------|------------|--------------|----------------------------|
| 72121                         | 10/24/1951 | PMT LOG ABS | L   | 01283 |   |       |      | T       |       |           | 3           |                    | 13       | 671066  | 3656312  | 33 1 54.57 | 103 10 13.55 |                            |
| (qtr are 1=NW 2=NE 3=SW 4=SE) |            |             |     |       |   |       |      |         |       |           |             |                    |          |         |          |            |              |                            |
| (qtr are biggest to smallest  |            |             |     |       |   |       |      |         |       |           |             |                    |          |         |          |            |              |                            |
| Point of Diversion            | Source     | Tw          | Rng | Sec   | q | q     | q    | X       | Y     | Zone      | X           | Y                  | Zone     | X       | Y        | Zone       | X            | Y                          |
| POD Number                    | Shallow    | 15S         | 37E | 11    | 2 | 3     |      |         |       |           |             |                    |          |         |          |            |              |                            |
| L 01283 APPRO                 |            |             |     |       |   |       |      |         |       |           |             |                    |          |         |          |            |              |                            |

New Mexico Office of the State Engineer  
Water Right Summary

Back

DB File Nbr: L 01320  
Primary Purpose: PRO 72-12-1 PROSPECTING OR DEVELOPMENT OF NATURAL RESOURCE  
Primary Status: PMT Permit  
Total Acres:  
Total Diversion: 3  
Owner: BIG CHIEF DRILLING CO.

Documents on File

| Doc   | File/Act   | Status | 1   | 2   | 3 | Trans_Desc | From/To | Acres | Diversion | Consumptive |
|-------|------------|--------|-----|-----|---|------------|---------|-------|-----------|-------------|
| 72121 | 01/07/1952 | PMT    | APR | ABS | L | 01320      | T       |       |           | 3           |

Point of Diversion  
POD Number  
L 01320 APPRO

(qtr are 1=NW 2=NE 3=SW 4=SE)  
(qtr are biggest to smallest  
Source  
15S 37E 11 4 3

X Y are in Feet  
Zone X  
UTM are in Meters)  
UTM Zone Easting Northing Latitude Longitude  
13 671081 3655507 33 1 28.45 103 10 13.49

New Mexico Office of the State Engineer  
Water Right Summary

Back

DB File Nbr: L 01321  
Primary Purpose: PRO 72-12-1 PROSPECTING OR DEVELOPMENT OF NATURAL RESOURCE  
Primary Status: PMT Permit  
Total Acres:  
Total Diversion: 3  
Owner: LLANO DRILLING CO.

Documents on File

| Doc   | File/Act   | Status      | 1 | 2     | 3 | Trans_Desc | From/To | Acres | Diversion | Consumptive |
|-------|------------|-------------|---|-------|---|------------|---------|-------|-----------|-------------|
| 72121 | 01/07/1952 | PMT LOG ABS | L | 01321 |   |            | T       |       |           | 3           |

(qtr are 1=NW 2=NE 3=SW 4=SE)

| Point of Diversion | Source  | Tw  | Rng | Sec | q | q | q | X | Y | UTM Zone | Easting | Northing | Latitude   | Longitude   | Other Location Description |
|--------------------|---------|-----|-----|-----|---|---|---|---|---|----------|---------|----------|------------|-------------|----------------------------|
| L 01321 APPRO      | Shallow | 15S | 37E | 11  | 2 | 4 |   |   |   | 13       | 671469  | 3656316  | 33 1 54.49 | 103 9 57.98 |                            |

Back

DB File Nbr: L 01322  
Primary Purpose: PRO 72-12-1 PROSPECTING OR DEVELOPMENT OF NATURAL RESOURCE  
Primary Status: PMT Permit  
Total Acres:  
Total Diversion: 3  
Owner: CORBETT DRILLING CO.

Documents on File

| Doc   | File/Act   | Status      | 1 | 2     | 3 | Trans_Desc | From/To | Acres | Diversion | Consumptive |
|-------|------------|-------------|---|-------|---|------------|---------|-------|-----------|-------------|
| 72121 | 01/07/1952 | PMT LOG ABS | L | 01322 |   |            | T       |       |           | 3           |

(qtr are 1=NW 2=NE 3=SW 4=SE)  
(qtr are biggest to smallest)  
Source      Tws      Rng      Sec      q      q      q  
Shallow      15S      37E      11      1      1      2

Point of Diversion      (qtr are in Meters)  
POD Number      Y      UTM\_Zone      Easting      Northing      Latitude      Longitude      Other Location Description  
L 01322 APPRO      13      670349      3656804      33      2      7.79      103 10      44.7

Back

DB File Nbr: L 01323  
Primary Purpose: PRO 72-12-1 PROSPECTING OR DEVELOPMENT OF NATURAL RESOURCE  
Primary Status: PMT Permit  
Total Acres:  
Total Diversion: 3  
Owner: LLANO DRILLING CO.

Documents on File

| Doc   | File/Act   | Status      | 1 | 2     | 3 | Trans_Desc | From/To | Acres | Diversion | Consumptive |
|-------|------------|-------------|---|-------|---|------------|---------|-------|-----------|-------------|
| 72121 | 01/07/1952 | PMT LOG ABS | L | 01323 |   |            | T       |       |           | 3           |

(qtr are 1=NW 2=NE 3=SW 4=SE)  
(qtr are biggest to smallest)  
Source TwS Rng Sec q q q  
Shallow 15S 37E 11 2 4

Point of Diversion  
POD Number  
L 01323 APPRO

X Y are in Feet  
Zone X

UTM are in Meters)  
UTM Zone Easting Northing  
13 671469 3656316

Latitude Longitude  
33 1 54.49 103 9 57.98

Other Location Description

New Mexico Office of the State Engineer  
Water Right Summary

Back

DB File Nbr: L 01324

Primary Purpose: PRO 72-12-1 PROSPECTING OR DEVELOPMENT OF NATURAL RESOURCE

Primary Status: PMT Permit

Total Acres:

Total Diversion: 3

Owner: PHILLIPS PETROLEUM CO.

Documents on File

| Doc   | File/Act   | Status      | 1 | 2     | 3 | Trans | Desc | From/To | Acres | Diversion | Consumptive |
|-------|------------|-------------|---|-------|---|-------|------|---------|-------|-----------|-------------|
| 72121 | 01/07/1952 | PMT LOG ABS | L | 01324 |   |       |      | T       |       |           | 3           |

(qtr are 1=NW 2=NE 3=SW 4=SE)

(qtr are biggest to smallest

Source Tws Rng Sec q q q

Shallow 15S 37E 11 2 1

X Y are in Feet

Zone X

UTM are in Meters)

UTM\_Zone Easting

13 671058

Northing

3656714

Latitude

33 2 7.62

Longitude

103 10 13.58

Other Location Description

Point of Diversion

POD Number

L 01324 APPRO

**Back**

**Owner:** BRINKENHOFF DRILLING CO. C/O R

3958.01

Back

DB File Nbr: L 01430  
Primary Purpose: PRO 72-12-1 PROSPECTING OR DEVELOPMENT OF NATURAL RESOURCE  
Primary Status: PMT Permit  
Total Acres:  
Total Diversion: 3  
Owner: PHILLIPS PETROLEUM CO.

| Documents on File             |            |             |   |       |   |            |         |       |           |             |  |
|-------------------------------|------------|-------------|---|-------|---|------------|---------|-------|-----------|-------------|--|
| Doc                           | File/Act   | Status      | 1 | 2     | 3 | Trans_Desc | From/To | Acres | Diversion | Consumptive |  |
| 72121                         | 04/22/1952 | PMT LOG ABS | L | 01430 |   |            | T       |       |           | 3           |  |
| (qtr are 1=NW 2=NE 3=SW 4=SE) |            |             |   |       |   |            |         |       |           |             |  |
| (qtr are biggest to smallest  |            |             |   |       |   |            |         |       |           |             |  |
| source Tws Rng Sec q q q      |            |             |   |       |   |            |         |       |           |             |  |
| Shallow 15S 37E 11 1 2        |            |             |   |       |   |            |         |       |           |             |  |
| X Y are in Feet               |            |             |   |       |   |            |         |       |           |             |  |
| Zone X                        |            |             |   |       |   |            |         |       |           |             |  |
| UTM are in Meters)            |            |             |   |       |   |            |         |       |           |             |  |
| Y UTM Zone Easting Northing   |            |             |   |       |   |            |         |       |           |             |  |
| 13 670654 3656709             |            |             |   |       |   |            |         |       |           |             |  |
| Latitude Longitude            |            |             |   |       |   |            |         |       |           |             |  |
| 33 2 7.7 103 10 29.14         |            |             |   |       |   |            |         |       |           |             |  |
| Other Location Description    |            |             |   |       |   |            |         |       |           |             |  |



New Mexico Office of the State Engineer  
Water Right Summary

Back

DB File Nbr: L 01568  
Primary Purpose: PRO 72-12-1 PROSPECTING OR DEVELOPMENT OF NATURAL RESOURCE  
Primary Status: PMT Permit  
Total Acres:  
Total Diversion: 3  
Owner: OLLIBEL C. CARD ESTATE

Documents on File

| Doc   | File/Act   | Status      | 1 | 2     | 3 | Trans Desc | From/To | Acres | Diversion | Consumptive |
|-------|------------|-------------|---|-------|---|------------|---------|-------|-----------|-------------|
| COWNF | 03/22/1954 | CHG PRC ABS | L | 01568 |   |            | T       |       | 3         |             |
| 72121 | 09/19/1952 | PMT LOG ABS | L | 01568 |   |            | T       |       | 3         |             |

(qtr are 1=NW 2=NE 3=SW 4=SE)  
(qtr are biggest to smallest)  
Point of Diversion  
POD Number  
L 01568 APPRO  
L 01568 CPPU

| Source  | Tws | Rng | sec | q | q | q | q | X | Y | UTM Zone | Easting | Northing | Latitude   | Longitude   | Other Location Description |
|---------|-----|-----|-----|---|---|---|---|---|---|----------|---------|----------|------------|-------------|----------------------------|
| Shallow | 15S | 37E | 12  | 3 | 1 |   |   |   |   | 13       | 671881  | 3655919  | 33 1 41.36 | 103 9 42.39 |                            |
| Shallow | 15S | 37E | 12  | 3 | 1 |   |   |   |   | 13       | 671881  | 3655919  | 33 1 41.36 | 103 9 42.39 |                            |

New Mexico Office of the State Engineer  
Water Right Summary

Back

DB File Nbr: L 01739

Primary Purpose: PRO 72-12-1 PROSPECTING OR DEVELOPMENT OF NATURAL RESOURCE

Primary Status: PMT Permit

Total Acres:

Total Diversion: 3

Owner: SHELL OIL CO.

Documents on File

| Doc   | File/Act   | Status      | 1 | 2     | 3 | Trans Desc | From/To | Acres | Diversion | Consumptive |
|-------|------------|-------------|---|-------|---|------------|---------|-------|-----------|-------------|
| 72121 | 01/15/1953 | PMT LOG ABS | L | 01739 |   |            | T       |       |           | 3           |

(qtr are 1=NW 2=NE 3=SW 4=SE)  
(qtr are biggest to smallest)

|                    |         |     |     |     |   |   |   |
|--------------------|---------|-----|-----|-----|---|---|---|
| Point of Diversion | Source  | Tws | Rng | Sec | q | q | q |
| L 01739            | Shallow | 15S | 37E | 10  | 2 | 2 | 2 |
| L 01739 APPRO      | Shallow | 15S | 37E | 10  | 2 | 2 | 2 |

| UTM are in Meters |         |          |           | UTM are in Feet |         |          |           |
|-------------------|---------|----------|-----------|-----------------|---------|----------|-----------|
| UTM_Zone          | Easting | Northing | Latitude  | UTM_Zone        | Easting | Northing | Latitude  |
| 13                | 669945  | 3656798  | 33 2 7.83 | 13              | 669945  | 3656798  | 33 2 7.83 |
| 13                | 669945  | 3656798  | 33 2 7.83 | 13              | 669945  | 3656798  | 33 2 7.83 |

Back

DB File Nbr: L 02268

Primary Purpose: PRO 72-12-1 PROSPECTING OR DEVELOPMENT OF NATURAL RESOURCE

Primary Status: PMT Permit

Total Acres:

Total Diversion: 3

Owner: SHELL OIL CO.

Documents on File

| .Doc  | File/Act   | Status      | 1 | 2     | 3 | Trans | Desc | From/To | Acres | Diversion | Consumptive |
|-------|------------|-------------|---|-------|---|-------|------|---------|-------|-----------|-------------|
| 72121 | 07/07/1953 | PMT LOG ABS | L | 02268 |   |       |      | T       |       |           | 3           |

(qtr are 1=NW 2=NE 3=SW 4=SE)

Point of Diversion

| POD Number    | Source  | Tws | Rng | Sec | q | q | q | q | X | Y | UTM Zone | Easting | Northing | Latitude | Longitude   | Other Location Description |
|---------------|---------|-----|-----|-----|---|---|---|---|---|---|----------|---------|----------|----------|-------------|----------------------------|
| L 02268       | Shallow | 15S | 37E | 10  | 4 | 2 |   |   |   |   | 13       | 669862  | 3655894  | 33 1     | 41.7 103 11 | .21                        |
| L 02268 APPRO | Shallow | 15S | 37E | 10  | 4 | 2 |   |   |   |   | 13       | 669862  | 3655894  | 33 1     | 41.7 103 11 | .21                        |

***New Mexico Office of the State Engineer***  
**Water Right Summary**

**Back**

DB File Nbr: L 02317

**Primary Purpose:** PRO 72-12-1 PROSPECTING OR DEVELOPMENT OF NATURAL RESOURCE

Primary status: PMT Permit

**Total Acres:**

Total Diversion: 3

Owner: TRINITY DRILLING CO.

## Documents on File

| Doc   | File/Act   | Status | 1   | 2   | 3 | Trans Desc | From/To | Acres | Division | Consumptive |
|-------|------------|--------|-----|-----|---|------------|---------|-------|----------|-------------|
| 72121 | 08/25/1953 | PMT    | LOG | ABS |   | L 02317    | T       |       |          | 3           |

(qtr are 1=NW 2=NE 3=SW 4=SE)

Point of Diversion (qtr are biggest to smallest)

| POD Number | Source | Tws | Rnq | Sec | q | q |
|------------|--------|-----|-----|-----|---|---|
| 1          | Source | Tws | Rnq | Sec | q | q |

| Depth | Temperature | Salinity | Specific Gravity | Direction | Force | Time | Remarks |
|-------|-------------|----------|------------------|-----------|-------|------|---------|
| L     | 02317       |          |                  |           |       |      |         |
|       |             | Shallow  | 15S              | 37E       | 11    | 1    |         |
|       |             |          |                  |           |       | 1    |         |
|       |             |          |                  |           |       | 1    |         |

|   |             |         |     |     |    |   |   |
|---|-------------|---------|-----|-----|----|---|---|
| L | 02317 APPRO | Shallow | 15S | 37E | 11 | 1 | 1 |
|---|-------------|---------|-----|-----|----|---|---|

Back

DB File Nbr: L 02391  
Primary Purpose: STK 72-12-1 LIVESTOCK WATERING  
Primary Status: PMT Permit  
Total Acres:  
Total Diversion: 3  
Owner: J. M. DENTON

Documents on File

| Doc   | File/Act   | Status      | 1 | 2     | 3 | Trans_Desc | From/To | Acres | Diversion | Consumptive |
|-------|------------|-------------|---|-------|---|------------|---------|-------|-----------|-------------|
| 72121 | 10/29/1953 | PMT LOG ABS | L | 02391 |   |            | T       |       | 3         |             |

(qtr are 1=NW 2=NE 3=SW 4=SE)  
(qtr are biggest to smallest)  
Source    Tws    Rng    Sec    q    q    q  
Shallow   15S   37E   02   3   3   3  
Shallow   15S   37E   11   3   3   3

| Point of Diversion | UTM are in Feet | X | Y | UTM Zone | Easting | Northing | Latitude   | Longitude    | Other Location Description |
|--------------------|-----------------|---|---|----------|---------|----------|------------|--------------|----------------------------|
| POD Number         |                 |   |   |          |         |          |            |              |                            |
| L 02391            |                 |   |   | 13       | 670141  | 3657006  | 33 2 20.85 | 103 10 44.73 |                            |
| L 02391 APPRO      |                 |   |   | 13       | 670172  | 3655397  | 33 1 28.6  | 103 10 44.61 |                            |

DB File Nbr: L 04956  
Primary Purpose: STK 72-12-1 LIVESTOCK WATERING  
Primary Status: PMT Permit  
Total Acres:  
Total Diversion: 3  
Owner: DICKENSON HEIRS

Back

Documents on File

| Doc   | File/Act   | Status      | 1          | 2 | 3   | Trans Desc | From/To | Acres | Diversion | Consumptive |
|-------|------------|-------------|------------|---|-----|------------|---------|-------|-----------|-------------|
| 72121 | 06/24/1976 | PMT APR CNV | CONVERSION | L | 049 | T          |         |       |           | 3           |

Point of Diversion  
POD Number  
L 04956  
L 04956 REPAR

(qtr are 1=NW 2=NE 3=SW 4=SE)  
(qtr are biggest to smallest)  
Source TwS Rng Sec q q q  
Shallow 15S 37E 12 1 1  
Shallow 15S 37E 12 1 1

| UTM are in Meters |         |          |           | UTM are in Feet |         |          |           |
|-------------------|---------|----------|-----------|-----------------|---------|----------|-----------|
| UTM_Zone          | Easting | Northing | Latitude  | UTM_Zone        | Easting | Northing | Latitude  |
| 13                | 671865  | 3656723  | 33 2 7.46 | 13              | 671764  | 3656822  | 33 2 7.46 |
| 13                | 671764  | 3656822  | 33 2 7.46 | 13              | 671764  | 3656822  | 33 2 7.46 |

New Mexico Office of the State Engineer  
Water Right Summary

Back

DB File Nbr: L 06625 (E)  
Primary Purpose: PRO 72-12-1 PROSPECTING OR DEVELOPMENT OF NATURAL RESOURCE  
Primary Status: PMT Permit  
Total Acres:  
Total Diversion: 0  
Owner: BRAHANEY DRILLING COMPANY

Documents on File

| Doc   | File/Act   | Status      | 1          | 2 | 3   | Trans_Desc | From/To | Acres | Diversion | Consumptive |
|-------|------------|-------------|------------|---|-----|------------|---------|-------|-----------|-------------|
| 72121 | 12/10/1969 | PMT APR CNV | CONVERSION | L | 066 | T          |         |       |           | 3           |

(qtr are 1=NW 2=NE 3=SW 4=SE)  
(qtr are biggest to smallest)  
Source TwS Rng Sec q q q  
Shallow 15S 37E 12 2 2 3

| Point of Diversion | UTM are in Meters) | UTM Zone | Eastng | Northing | Latitude  | Longitude   | Other Location Description |
|--------------------|--------------------|----------|--------|----------|-----------|-------------|----------------------------|
| POD Number         |                    | 13       | 672974 | 3656639  | 33 2 7.34 | 103 8 55.82 |                            |
| L 06625 (E)        |                    |          |        |          |           |             |                            |

Back

DB File Nbr: L 07665  
Primary Purpose: PRO 72-12-1 PROSPECTING OR DEVELOPMENT OF NATURAL RESOURCE  
Primary Status: PMT Permit  
Total Acres:  
Total Diversion: 0  
Owner: INC. M.G.F. DRILLING CO.

Documents on File

| Doc   | File/Act   | Status      | 1          | 2 | 3   | Trans Desc | From/To | Acres | Diversion | Consumptive |
|-------|------------|-------------|------------|---|-----|------------|---------|-------|-----------|-------------|
| 72121 | 03/25/1977 | PMT APR CNV | CONVERSION | L | 076 | T          |         |       |           | 3           |

Point of Diversion  
POD Number  
L 07665

(qtr are 1=NW 2=NE 3=SW 4=SE)  
(qtr are biggest to smallest)  
Source Tws Rng Sec q q q  
Shallow 15S 37E 11 4 4 4

UTM are in Meters)  
UTM Zone Easting Northing Latitude Longitude  
13 671584 3655411 33 1 28.38 103 9 57.93



Back

DB File Nbr: L 09926

Primary Purpose: PRO 72-12-1 PROSPECTING OR DEVELOPMENT OF NATURAL RESOURCE

Primary Status: PMT Permit

Total Acres:

Total Diversion: 0

Owner: NORTH AMERICAN ROYALTIES

Documents on File

| Doc   | File/Act   | Status      | 1          | 2 | 3   | Trans Desc | From/To | Acres | Diversion | Consumptive |
|-------|------------|-------------|------------|---|-----|------------|---------|-------|-----------|-------------|
| 72121 | 06/26/1987 | PMT APR CNV | CONVERSION | L | 099 | T          |         |       |           | 3           |

(qtr are 1=NW 2=NE 3=SW 4=SE)

(qtr are biggest to smallest

Source

15S 37E 12 4 1

X Y are in Feet

X

Zone

UTM are in Meters)

Y

UTM Zone

13

Eastings

672688

Northings

3655931

Latitude

33 1 41.29

Longitude

103 9 11.3

Other Location Description

*New Mexico Office of the State Engineer*  
**Water Right Summary**

DB File Nbr: L 07610

**Primary Purpose:** PRO 72-12-1 PROSPECTING OR DEVELOPMENT OF NATURAL RESOURCE

Primary Status: PMT Permit

**Total Acres:**

Total Diversion: 0

Owner: BRAHANEY DRILLING CO.

**Back**

## Documents on File

| Doc   | File/Act   | status | 1   | 2   | 3 | Trans Desc | From/To | Acres | Division | Consumptive |
|-------|------------|--------|-----|-----|---|------------|---------|-------|----------|-------------|
| 72121 | 10/01/1976 | PMT    | APR | CNV |   | CONVERSION | L       | 076   | T        | 3           |

(qtr are 1=NW 2=NE 3=SW 4=SE)

### Point of Diversion

Source

Shallow

100

**X Y are in Feet**

Zone X

1

Nothing

671066

UTM are in Meters)

## Feasting

Nothing

33 1 54.57

 Other Location Description |

New Mexico Office of the State Engineer  
Water Right Summary

Back

DB File Nbr: L 01119  
Primary Purpose: PRO 72-12-1 PROSPECTING OR DEVELOPMENT OF NATURAL RESOURCE  
Primary Status: PMT Permit  
Total Acres:  
Total Diversion: 3  
Owner: ROLAND DRILLING CO.

Documents on File

| Doc   | File/Act   | Status      | 1 | 2     | 3 | Trans | Desc | From/To | Acres | Diversion | Consumptive |
|-------|------------|-------------|---|-------|---|-------|------|---------|-------|-----------|-------------|
| 72121 | 05/15/1951 | PMT LOG ABS | L | 01119 |   |       |      | T       |       | 3         |             |

(qtr are 1=NW 2=NE 3=SW 4=SE)

(qtr are biggest to smallest

Source Tws Rng Sec q q q

Shallow 15S 37E 02 2 3

15S 37E 08 2 3

X Y are in Feet

Zone X

UTM are in Meters)

UTM Zone Easting

13 671036

13 666223

Northings

33 2 46.8

33 1 55.06

33 2 46.8

33 1 55.06

Longitude

103 10 13.6

103 13 20.19

Other Location Description

Back

DB File Nbr: L 01136

Primary Purpose: PRO 72-12-1 PROSPECTING OR DEVELOPMENT OF NATURAL RESOURCE

Primary Status: PMT Permit

Total Acres:

Total Diversion: 3

Owner: DIXILYN DRILLING CO.

Documents on File

| Doc   | File/Act   | Status      | 1 | 2     | 3 | Trans | Desc | From/To | Acres | Diversion | Consumptive |
|-------|------------|-------------|---|-------|---|-------|------|---------|-------|-----------|-------------|
| 72121 | 06/04/1951 | PMT LOG ABS | L | 01136 |   |       |      | T       |       |           | 3           |

(qtr are 1=NW 2=NE 3=SW 4=SE)

Point of Diversion

POD Number

L 01136

L 01136 APPRO

(qtr are biggest to smallest

Source Tws Rng Sec q q q

Shallow 15S 37E 02 4 1

Shallow 15S 37E 02 4 1

X Y are in Feet

X

Zone

4 1

UTM are in Meters)

UTM Zone

13

13

Eastings

671043

3657518

3657518

Northing

33 2

33.74

103 10

Latitude

33 2

33.74

103 10

Longitude

103 10

13.6

13.6

Other Location Description

New Mexico Office of the State Engineer  
Water Right Summary

Back

DB File Nbr: L 01175

Primary Purpose: PRO 72-12-1 PROSPECTING OR DEVELOPMENT OF NATURAL RESOURCE

Primary Status: PMT Permit

Total Acres:

Total Diversion: 3

Owner: ATLANTIC REFINING CO.

Documents on File

| Doc   | File/Act   | Status      | 1 | 2     | 3 | Trans_Desc | From/To | Acres | Diversion | Consumptive |
|-------|------------|-------------|---|-------|---|------------|---------|-------|-----------|-------------|
| 72121 | 08/02/1951 | PMT LOG ABS | L | 01175 |   |            | T       |       |           | 3           |

(qtr are 1=NW 2=NE 3=SW 4=SE)

(qtr are biggest to smallest

Source Tws Rng Sec q q q

Shallow 15S 37E 01 3 1

X Y are in Feet

X

Zone

X

UTM are in Meters)

UTM\_Zone

Easting

13

Y

Y

UTM\_Zone

Easting

671850

UTM\_Zone

Easting

3657527

UTM\_Zone

Easting

33

UTM\_Zone

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671850

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3657527

UTM\_Zone

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33

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671850

UTM\_Zone

Easting

New Mexico Office of the State Engineer  
Water Right Summary

Back

DB File Nbr: L 01197  
Primary Purpose: PRO 72-12-1 PROSPECTING OR DEVELOPMENT OF NATURAL RESOURCE  
Primary Status: PMT Permit  
Total Acres:  
Total Diversion: 3  
Owner: SHELL OIL COMPANY

| Documents on File             |            |             |   |       |   |            |         |       |           |
|-------------------------------|------------|-------------|---|-------|---|------------|---------|-------|-----------|
| Doc                           | File/Act   | Status      | 1 | 2     | 3 | Trans Desc | From/To | Acres | Diversion |
| 72121                         | 08/14/1951 | PMT LOG ABS | L | 01197 |   |            | T       |       | 3         |
| (qtr are 1=NW 2=NE 3=SW 4=SE) |            |             |   |       |   |            |         |       |           |
| (qtr are biggest to smallest  |            |             |   |       |   |            |         |       |           |
| Source Tws Rng Sec q q q      |            |             |   |       |   |            |         |       |           |
| Shallow 15S 37E 02 3 1 3      |            |             |   |       |   |            |         |       |           |
| Point of Diversion            |            |             |   |       |   |            |         |       |           |
| POD Number                    |            |             |   |       |   |            |         |       |           |
| L 01197 APPRO                 |            |             |   |       |   |            |         |       |           |
| UTM are in Meters)            |            |             |   |       |   |            |         |       |           |
| UTM Zone Easting Northing     |            |             |   |       |   |            |         |       |           |
| 13 670135 3657409             |            |             |   |       |   |            |         |       |           |
| Latitude Longitude            |            |             |   |       |   |            |         |       |           |
| 33 2 33.92 103 10 44.72       |            |             |   |       |   |            |         |       |           |
| Other Location Description    |            |             |   |       |   |            |         |       |           |

New Mexico Office of the State Engineer  
Water Right Summary

Back

DB File Nbr: L 01204  
Primary Purpose: PRO 72-12-1 PROSPECTING OR DEVELOPMENT OF NATURAL RESOURCE  
Primary Status: PMT Permit  
Total Acres:  
Total Diversion: 3  
Owner: MCALESTER FUEL CO.

| Documents on File             |            |             |     |       |   |            |         |       |                            |
|-------------------------------|------------|-------------|-----|-------|---|------------|---------|-------|----------------------------|
| Doc                           | File/Act   | Status      | 1   | 2     | 3 | Trans Desc | From/To | Acres | Diversion                  |
| 72121                         | 08/30/1951 | PMT LOG ABS | L   | 01204 |   |            | T       |       | 3                          |
| (qtr are 1=NW 2=NE 3=SW 4=SE) |            |             |     |       |   |            |         |       |                            |
| (qtr are biggest to smallest  |            |             |     |       |   |            |         |       |                            |
| Point of Diversion            | Source     | Tws         | Rng | Sec   | q | q          | q       | X     | Y                          |
| L 01204 APPRO                 | Shallow    | 15S         | 37E | 02    | 2 | 4          | 3       | Zone  | UTM are in Meters)         |
|                               |            |             |     |       |   |            |         |       | UTM Zone                   |
|                               |            |             |     |       |   |            |         |       | Eastings                   |
|                               |            |             |     |       |   |            |         |       | 671339                     |
|                               |            |             |     |       |   |            |         |       | 33 2 46.7                  |
|                               |            |             |     |       |   |            |         |       | 103 9 58.05                |
|                               |            |             |     |       |   |            |         |       | Latitude                   |
|                               |            |             |     |       |   |            |         |       | Longitude                  |
|                               |            |             |     |       |   |            |         |       | Other Location Description |

Back

DB File Nbr: L 01224

Primary Purpose: PRO 72-12-1 PROSPECTING OR DEVELOPMENT OF NATURAL RESOURCE

Primary Status: PMT Permit

Total Acres:

Total Diversion: 3

Owner: SKELLEY OIL CO.

Documents on File

| Doc   | File/Act   | Status      | 1 | 2     | 3 | Trans_Desc | From/To | Acres | Diversion | Consumptive |
|-------|------------|-------------|---|-------|---|------------|---------|-------|-----------|-------------|
| 72121 | 09/27/1951 | PMT LOG ABS | L | 01224 |   |            | T       |       |           | 3           |

(qtr are 1=NW 2=NE 3=SW 4=SE)

(qtr are biggest to smallest

Source TwS Rng Sec q q q

Shallow 15S 37E 02 1 1

X Y are in Feet

X

Zone

UTM are in Meters)

Y UTM Zone

13

Easting

670222

Northing

3658314

Latitude

33 3 0.05

Longitude

103 10 44.7

Other Location Description



Township: 15SRange: 37ESections: 1,2,3

NAD27 X: Y:Zone:Search Radius:

County:Basin:Number:Suffix:

Owner Name: (First) (Last)☐ Non-Domestic☐ Domestic☒ All

Well / Surface Data Report

Avg Depth to Water Report

Water Column Report

Clear Form

WATERS Menu

Help

WELL / SURFACE DATA REPORT 09/19/2002

| (acre ft per annum) |     |           |       |             |        |     |     |     |   | (quarters are 1=NW 2=NE 3=SW 4=SE) |   |      |   |   |          |         |          |      |  | (quarters are biggest to smallest) |  |  |  |  |  |  |  |  |  | X Y are in Feet |  |  |  | UTM are in Meters |  |  |  | Sta |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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| DB File Nbr         | Use | Diversion | Owner | Well Number | Source | Tws | Rng | Sec | q | q                                  | q | Zone | X | Y | UTM Zone | Easting | Northing | Date |  |                                    |  |  |  |  |  |  |  |  |  |                 |  |  |  |                   |  |  |  |     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

|         |     |   |                           |               |         |     |        |       |    |        |         |     |
|---------|-----|---|---------------------------|---------------|---------|-----|--------|-------|----|--------|---------|-----|
| L 03929 | PRO | 0 | DURHAM DRILLING COMPANY   | L 03929       | Shallow | 15S | 37E 01 | 1 4 1 | 13 | 672145 | 3658033 | 07/ |
| L 07198 | SAN | 3 | TIPPERARY RESOURCES CORP. | L 03929 APPRO | Shallow | 15S | 37E 01 | 1 4 1 | 13 | 672145 | 3658033 | 07/ |
| L 08594 | PRO | 0 | MOSBACHER PRODUCING CO.   | L 07198       | Shallow | 15S | 37E 02 | 3 2 4 | 13 | 670738 | 3657413 | 04/ |
| L 08598 | PRO | 0 | MOSBACHER PRODUCING CO.   | L 08594       | Shallow | 15S | 37E 03 | 3 1 1 | 13 | 668517 | 3657586 | 11/ |
| L 10685 | SAN | 3 | DEVON ENERGY CORP.        | L 08598       | Shallow | 15S | 37E 03 | 3 1 3 | 13 | 668517 | 3657386 | 11/ |
|         |     |   |                           | L 10685       |         | 15S | 37E 02 | 3 2   | 13 | 670639 | 3657514 |     |

Record Count: 32

Back

DB File Nbr: L 01095

Primary Purpose: PRO 72-12-1 PROSPECTING OR DEVELOPMENT OF NATURAL RESOURCE

Primary Status: PMT Permit

Total Acres:

Total Diversion: 3

Owner: PARKER DRILLING CO.

Documents on File

| Doc   | File/Act   | Status      | 1 | 2     | 3 | Trans | Desc | From/To | Acres | Diversion | Consumptive |
|-------|------------|-------------|---|-------|---|-------|------|---------|-------|-----------|-------------|
| 72121 | 04/04/1951 | PMT LOG ABS | L | 01095 |   |       |      | T       |       |           | 3           |

(qtr are 1=NW 2=NE 3=SW 4=SE)

(qtr are biggest to smallest

Source TwS Rng Sec q q q

Shallow 15S 37E 02 1 4

X Y are in Feet

X

Zone

UTM are in Meters)

Y

UTM

Zone

East

ing

North

ing

3657916

33

2

46.89

103

10

29.15

Latitude

Longitude

Other Location Description

DB File Nbr: L 01118

Primary Purpose: PRO 72-12-1 PROSPECTING OR DEVELOPMENT OF NATURAL RESOURCE

Primary Status: PMT Permit

Total Acres:

Total Diversion: 3

Owner: ROLAND DRILLING CO.

Back

Documents on File

| Doc   | File/Act   | Status      | 1 | 2     | 3 | Trans | Desc | From/To | Acres | Diversion | Consumptive |
|-------|------------|-------------|---|-------|---|-------|------|---------|-------|-----------|-------------|
| 72121 | 05/15/1951 | PMT LOG ABS | L | 01118 |   |       |      | T       |       |           | 3           |

(qtr are 1=NW 2=NE 3=SW 4=SE)

| Point of Diversion | Source  | Tws | Rng | Sec | q | q | q | q | X | Y | UTM Zone | Easting | Northing | Latitude   | Longitude   | Other Location Description |
|--------------------|---------|-----|-----|-----|---|---|---|---|---|---|----------|---------|----------|------------|-------------|----------------------------|
| L 01118            | Shallow | 15S | 37E | 02  | 1 | 3 |   |   |   |   | 13       | 670229  | 3657912  | 33 2 46.98 | 103 10 44.7 |                            |
| L 01118 APPRO      |         | 15S | 37E | 02  | 1 | 3 |   |   |   |   | 13       | 670229  | 3657912  | 33 2 46.98 | 103 10 44.7 |                            |

Back

DB File Nbr: L 01284  
Primary Purpose: PRO 72-12-1 PROSPECTING OR DEVELOPMENT OF NATURAL RESOURCE  
Primary Status: PMT Permit  
Total Acres:  
Total Diversion: 3  
Owner: ROWAN DRILLING CO.

| Documents on File             |            |             |     |       |   |            |         |       |                       |
|-------------------------------|------------|-------------|-----|-------|---|------------|---------|-------|-----------------------|
| Doc                           | File/Act   | Status      | 1   | 2     | 3 | Trans Desc | From/To | Acres | Diversion Consumptive |
| 72121                         | 10/24/1951 | PMT LOG ABS | L   | 01284 |   |            | T       |       | 3                     |
| (qtr are 1=NW 2=NE 3=SW 4=SE) |            |             |     |       |   |            |         |       |                       |
| (qtr are biggest to smallest  |            |             |     |       |   |            |         |       |                       |
| Point of Diversion            | Source     | Tws         | Rng | Sec   | q | q          | q       | X     | Y                     |
| POD Number                    | Shallow    | 15S         | 37E | 02    | 2 | 1          | Zone    | X     | Y                     |
| L 01284 APPRO                 |            |             |     |       |   |            |         |       |                       |
| UTM are in Meters)            |            |             |     |       |   |            |         |       |                       |
| UTM Zone Easting Northing     |            |             |     |       |   |            |         |       |                       |
| 13 671029 3658322             |            |             |     |       |   |            |         |       |                       |
| Latitude Longitude            |            |             |     |       |   |            |         |       |                       |
| 33 2 59.85 103 10 13.6        |            |             |     |       |   |            |         |       |                       |
| Other Location Description    |            |             |     |       |   |            |         |       |                       |
| CENTER                        |            |             |     |       |   |            |         |       |                       |

Back

DB File Nbr: L 01285  
Primary Purpose: PRO 72-12-1 PROSPECTING OR DEVELOPMENT OF NATURAL RESOURCE  
Primary Status: PMT Permit  
Total Acres:  
Total Diversion: 3  
Owner: ROWAN DRILLING CO.

Documents on File

| Doc   | File/Act   | Status      | 1 | 2     | 3 | Trans_Desc | From/To | Acres | Diversion | Consumptive |
|-------|------------|-------------|---|-------|---|------------|---------|-------|-----------|-------------|
| 72121 | 10/24/1951 | PMT LOG ABS | L | 01285 |   |            | T       |       |           | 3           |

(qtr are 1=NW 2=NE 3=SW 4=SE)  
(qtr are biggest to smallest)  
Source Tws Rng Sec q q q  
Shallow 15S 37E 02 2 2

Point of Diversion  
POD Number  
L 01285 APPRO

UTM are in Meters)  
UTM Zone Easting Northing Latitude Longitude  
13 671433 3658326 33 2 59.75 103 9 58.04

Other Location Description

Back

DB File Nbr: L 01293  
Primary Purpose: PRO 72-12-1 PROSPECTING OR DEVELOPMENT OF NATURAL RESOURCE  
Primary Status: PMT Permit  
Total Acres:  
Total Diversion: 3  
Owner: THOMPSON AND CARR DRILLING CO

Documents on File

| Doc   | File/Act   | Status      | 1 | 2     | 3 | Trans_Desc | From/To | Acres | Diversion | Consumptive |
|-------|------------|-------------|---|-------|---|------------|---------|-------|-----------|-------------|
| 72121 | 11/09/1951 | PMT LOG ABS | L | 01293 |   |            | T       |       | 3         |             |

(qtr are 1=NW 2=NE 3=SW 4=SE)  
(qtr are biggest to smallest)  
Source      Tw's      Rng      Sec      q      q      q      q  
Shallow      15S      37E      03      2      2      2      2

Point of Diversion      X Y are in Feet      UTM are in Meters)  
POD Number      X      Y      UTM Zone      Easting      Northing      Latitude      Longitude      Other Location Description  
L 01293 APPRO      13      669817      33      3      0.09      103      11      .32      NEAR CENTER

Back

DB File Nbr: L 01297  
Primary Purpose: PRO 72-12-1 PROSPECTING OR DEVELOPMENT OF NATURAL RESOURCE  
Primary Status: PMT Permit  
Total Acres:  
Total Diversion: 3  
Owner: ROWMAN DRILLING CO.

Documents on File

| Doc   | File/Act   | Status      | 1 | 2     | 3 | Trans | Desc | From/To | Acres | Diversion | Consumptive |
|-------|------------|-------------|---|-------|---|-------|------|---------|-------|-----------|-------------|
| 72121 | 11/14/1951 | PMT LOG ABS | L | 01297 |   |       |      | T       |       |           | 3           |

(qtr are 1=NW 2=NE 3=SW 4=SE)  
(qtr are biggest to smallest)  
Source TwS Rng Sec q q q  
Shallow 15S 37E 01 1 3

Point of Diversion  
POD Number  
L 01297 APPRO

UTM are in Meters  
UTM\_Zone Easting Northing Latitude Longitude Other Location Description  
13 671843 3657929 33 2 46.61 103 9 42.49 CENTER



Back

DB File Nbr: L 01422  
Primary Purpose: PRO 72-12-1 PROSPECTING OR DEVELOPMENT OF NATURAL RESOURCE  
Primary Status: PMT Permit  
Total Acres:  
Total Diversion: 3  
Owner: CORBETT DRILLING CO.

Documents on File

| Doc   | File/Act   | Status      | 1 | 2     | 3 | Trans | Desc | From/To | Acres | Diversion | Consumptive |
|-------|------------|-------------|---|-------|---|-------|------|---------|-------|-----------|-------------|
| 72121 | 04/11/1952 | PMT LOG ABS | L | 01422 |   |       |      | T       |       |           | 3           |

(qtr are 1=NW 2=NE 3=SW 4=SE)  
(qtr are biggest to smallest)  
Source TwS Rng Sec q q q  
Shallow 15S 37E 02 3 3

Point of Diversion  
POD Number  
L 01422 APPRO

UTM are in Meters)  
UTM Zone Easting Northing Latitude Longitude  
13 670242 3657107 33 2 20.85 103 10 44.73  
Other Location Description

New Mexico Office of the State Engineer  
Water Right Summary

Back

DB File Nbr: L 01447  
Primary Purpose: PRO 72-12-1 PROSPECTING OR DEVELOPMENT OF NATURAL RESOURCE  
Primary Status: PMT Permit  
Total Acres: 3  
Total Diversion: 3  
Owner: SHELL OIL CO.

Documents on File

| Doc   | File/Act   | Status      | 1 | 2     | 3 | Trans Desc | From/To | Acres | Diversion | Consumptive |
|-------|------------|-------------|---|-------|---|------------|---------|-------|-----------|-------------|
| 72121 | 05/22/1952 | PMT LOG ABS | L | 01447 |   |            | T       |       |           | 3           |

(qtr are 1=NW 2=NE 3=SW 4=SE)

| Point of Diversion | Source  | Tws | Rng | Sec | q | q | q | X | Y | UTM Zone | Eastings | Northings | Latitude   | Longitude   | Other Location Description |
|--------------------|---------|-----|-----|-----|---|---|---|---|---|----------|----------|-----------|------------|-------------|----------------------------|
| L 01447 APPRO      | Shallow | 15S | 37E | 01  | 1 | 1 |   |   |   | 13       | 671836   | 3658330   | 33 2 59.64 | 103 9 42.49 |                            |

DB File Nbr: L 01491  
Primary Purpose: DOM 72-12-1 DOMESTIC ONE HOUSEHOLD  
Primary Status: PMT Permit  
Total Acres:  
Total Diversion: 3  
Owner: SHELL OIL CO.

Back

Documents on File

| Doc   | File/Act   | Status      | 1 | 2     | 3 | Trans Desc | From/To | Acres | Diversion | Consumptive |
|-------|------------|-------------|---|-------|---|------------|---------|-------|-----------|-------------|
| 72121 | 07/24/1952 | PMT LOG ABS | L | 01491 |   |            | T       |       |           | 3           |

(qtr are 1=NW 2=NE 3=SW 4=SE)  
(qtr are biggest to smallest)  
Source Tws Rng Sec q q q  
Shallow 15S 37E 01 1 3

Point of Diversion  
POD Number  
L 01491 APPRO

UTM are in Meters  
UTM Zone Easting Northing Latitude Longitude  
13 671843 3657929 33 2 46.61 103 9 42.49

Other Location Description

*New Mexico Office of the State Engineer*  
**Water Right Summary**

DB File Nbr: L 01575

**Primary Purpose:** PRO 72-12-1 PROSPECTING OR DEVELOPMENT OF NATURAL RESOURCE

Primary Status: PMT Permit

**Total Acres:**

Total Diversion: 3

**Owner:** GULF OIL CORPORATION

Contact: G. F. TAYLOR

**Back**

## Documents on File

| Doc   | File/Act   | Status      | Trans Desc | From/To | Acres | Diversion | Consumptive |
|-------|------------|-------------|------------|---------|-------|-----------|-------------|
|       |            | 1 2 3       | 1 01575    | T       |       |           |             |
| 72121 | 09/24/1952 | PMT APR ABS | L 01575    |         |       | 3         | 3           |

(qtr are 1=NW 2=NE 3=SW 4=SE)

### Point of Diversion

| POD Number | source |
|------------|--------|
| 1          | 1      |
| 2          | 2      |
| 3          | 3      |
| 4          | 4      |
| 5          | 5      |
| 6          | 6      |
| 7          | 7      |
| 8          | 8      |
| 9          | 9      |
| 10         | 10     |
| 11         | 11     |
| 12         | 12     |
| 13         | 13     |
| 14         | 14     |
| 15         | 15     |
| 16         | 16     |
| 17         | 17     |
| 18         | 18     |
| 19         | 19     |
| 20         | 20     |
| 21         | 21     |
| 22         | 22     |
| 23         | 23     |
| 24         | 24     |
| 25         | 25     |
| 26         | 26     |
| 27         | 27     |
| 28         | 28     |
| 29         | 29     |
| 30         | 30     |
| 31         | 31     |
| 32         | 32     |
| 33         | 33     |
| 34         | 34     |
| 35         | 35     |
| 36         | 36     |
| 37         | 37     |
| 38         | 38     |
| 39         | 39     |
| 40         | 40     |
| 41         | 41     |
| 42         | 42     |
| 43         | 43     |
| 44         | 44     |
| 45         | 45     |
| 46         | 46     |
| 47         | 47     |
| 48         | 48     |
| 49         | 49     |
| 50         | 50     |
| 51         | 51     |
| 52         | 52     |
| 53         | 53     |
| 54         | 54     |
| 55         | 55     |
| 56         | 56     |
| 57         | 57     |
| 58         | 58     |
| 59         | 59     |
| 60         | 60     |
| 61         | 61     |
| 62         | 62     |
| 63         | 63     |
| 64         | 64     |
| 65         | 65     |
| 66         | 66     |
| 67         | 67     |
| 68         | 68     |
| 69         | 69     |
| 70         | 70     |
| 71         | 71     |
| 72         | 72     |
| 73         | 73     |
| 74         | 74     |
| 75         | 75     |
| 76         | 76     |
| 77         | 77     |
| 78         | 78     |
| 79         | 79     |
| 80         | 80     |
| 81         | 81     |
| 82         | 82     |
| 83         | 83     |
| 84         | 84     |
| 85         | 85     |
| 86         | 86     |
| 87         | 87     |
| 88         | 88     |
| 89         | 89     |
| 90         | 90     |
| 91         | 91     |
| 92         | 92     |
| 93         | 93     |
| 94         | 94     |
| 95         | 95     |
| 96         | 96     |
| 97         | 97     |
| 98         | 98     |
| 99         | 99     |
| 100        | 100    |

01575

**X Y are in Feet**

Zone X

24

UTM are in Meters)

UTM Zone Easting

73

Nothing

NOTHING 33

Rating

103 11 37

 Other Location Description |

DB File Nbr: L 01578

Primary Purpose: PRO 72-12-1 PROSPECTING OR DEVELOPMENT OF NATURAL RESOURCE

Primary Status: PMT Permit

Total Acres:

Total Diversion: 3

Owner: GULF OIL CO.

Back

Documents on File

| Doc   | File/Act   | Status      | 1 | 2     | 3 | Trans | Desc | From/To | Acres | Diversion | Consumptive |
|-------|------------|-------------|---|-------|---|-------|------|---------|-------|-----------|-------------|
| 72121 | 09/26/1952 | PMT LOG ABS | L | 01578 |   |       |      | T       |       |           | 3           |

(qtr are 1=NW 2=NE 3=SW 4=SE)

(qtr are biggest to smallest

Source Tws Rng Sec q q q

Shallow 15S 37E 03 4 2 2

X Y are in Feet

X

Zone

Y

UTM are in Meters)

UTM Zone Easting Northing

13

669930

3657603

33 2 33.96

103 11 .31

Other Location Description

Back

DB File Nbr: L 01587

Primary Purpose: PRO 72-12-1 PROSPECTING OR DEVELOPMENT OF NATURAL RESOURCE

Primary Status: PMT Permit

Total Acres:

Total Diversion: 3

Owner: SHELL OIL CO. (RG. CONTR-ROWA

Documents on File

| Doc   | File/Act   | Status      | 1 | 2     | 3 | Trans Desc | From/To | Acres | Diversion | Consumptive |
|-------|------------|-------------|---|-------|---|------------|---------|-------|-----------|-------------|
| 72121 | 10/08/1952 | PMT LOG ABS | L | 01587 |   |            | T       |       |           | 3           |

(qtr are 1=NW 2=NE 3=SW 4=SE)

(qtr are biggest to smallest

Source TwS Rng Sec q q q

Shallow 15S 37E 01 1 2

Shallow 15S 37E 01 1 2

X Y are in Feet

Zone

X

Y

UTM are in Meters)

UTM\_Zone Easting

13

13

Northing

3658336

3658336

Latitude

33 2 59.6

33 2 59.6

Longitude

103 9 26.98

103 9 26.98

Other Location Description

New Mexico Office of the State Engineer  
Water Right Summary

Back

DB File Nbr: L 01637  
Primary Purpose: PRO 72-12-1 PROSPECTING OR DEVELOPMENT OF NATURAL RESOURCE  
Primary Status: PMT Permit  
Total Acres:  
Total Diversion: 3  
Owner: PARKER DRILLING CO.

Documents on File

| Doc   | File/Act   | Status      | 1 | 2     | 3 | Trans | Desc | From/To | Acres | Diversion | Consumptive |
|-------|------------|-------------|---|-------|---|-------|------|---------|-------|-----------|-------------|
| 72121 | 10/30/1952 | PMT LOG ABS | L | 01637 |   |       |      | T       |       | 3         |             |

(qtr are 1=NW 2=NE 3=SW 4=SE)  
(qtr are biggest to smallest)  
Source TwS Rng Sec q q q  
Shallow 15S 37E 01 3 1 1

| Point of Diversion | UTM are in Meters) | UTM_Zone | Easting | Northing | Latitude   | Longitude   | Other Location Description |
|--------------------|--------------------|----------|---------|----------|------------|-------------|----------------------------|
| POD Number         |                    | Y        | 671749  | 3657626  | 33 2 33.56 | 103 9 42.49 |                            |
| L 01637 APPRO      |                    |          |         |          |            |             |                            |

New Mexico Office of the State Engineer  
Water Right Summary

Back

DB File Nbr: L 01673

Primary Purpose: PRO 72-12-1 PROSPECTING OR DEVELOPMENT OF NATURAL RESOURCE

Primary Status: PMT Permit

Total Acres:

Total Diversion: 3

Owner: CORBETT DRILLING CO.

Documents on File

| Doc   | File/Act   | Status      | 1 | 2     | 3 | Trans | Desc | From/To | Acres | Diversion | Consumptive |
|-------|------------|-------------|---|-------|---|-------|------|---------|-------|-----------|-------------|
| 72121 | 12/01/1952 | PMT LOG ABS | L | 01673 |   |       |      | T       |       |           | 3           |

(qtr are 1=NW 2=NE 3=SW 4=SE)

| Point of Diversion | Source  | Tws | Rng | Sec | q | q | q | X | Y | UTM Zone | Easting | Northing | Latitude   | Longitude    | Other Location Description |
|--------------------|---------|-----|-----|-----|---|---|---|---|---|----------|---------|----------|------------|--------------|----------------------------|
| POD Number         | Shallow | 15S | 37E | 02  | 3 | 4 |   |   |   | 13       | 670646  | 3657111  | 33 2 20.76 | 103 10 29.17 |                            |
| L 01673 APPRO      |         |     |     |     |   |   |   |   |   |          |         |          |            |              |                            |



Owner: GULF OIL CORPORATION

| Doc   | File/Act   | Status | 1   | 2   | 3   | Trans_Desc | From/To | Acres | Diversion | Consumptive |
|-------|------------|--------|-----|-----|-----|------------|---------|-------|-----------|-------------|
| CONNF | 03/10/1954 | CHG    | PRC | ABS | ABS | L 01997    | T       |       | 3         |             |
| 72121 | 02/26/1953 | PMT    | LOG | ABS | ABS | L 01997    | T       |       | 3         |             |

|   |       |         |     |     |    |   |   |
|---|-------|---------|-----|-----|----|---|---|
| L | 01997 | shallow | 15S | 37E | 03 | 4 | 1 |
| L | 01997 | shallow | 15S | 37E | 03 | 4 | 1 |

UTM Zone Easting

13 669427

13 669526

Zone X

## Nothing

3657498

3657597

Latitude

2 34

2 34

**Longitudinal**

3 11 15.9

3 11 15.9

 Other Location Description |

Back

DB File Nbr: L 02391  
Primary Purpose: STK 72-12-1 LIVESTOCK WATERING  
Primary Status: PMT Permit  
Total Acres:  
Total Diversion: 3  
Owner: J. M. DENTON

Documents on File

| Doc   | File/Act   | Status      | 1 | 2     | 3 | Trans Desc | From/To | Acres | Diversion | Consumptive |
|-------|------------|-------------|---|-------|---|------------|---------|-------|-----------|-------------|
| 72121 | 10/29/1953 | PMT LOG ABS | L | 02391 |   |            | T       |       |           | 3           |

(qtr are 1=NW 2=NE 3=SW 4=SE)

| Point of Diversion | Source  | Tws | Rng | Sec | q | q | q |
|--------------------|---------|-----|-----|-----|---|---|---|
| POD Number         | Shallow | 15S | 37E | 02  | 3 | 3 | 3 |
| L 02391            | Shallow | 15S | 37E | 11  | 3 | 3 | 3 |
| L 02391 APPRO      |         |     |     |     |   |   |   |

| UTM are in Meters) | X    | Y | UTM Zone | Easting | Northing | Latitude   | Longitude    | Other Location Description |
|--------------------|------|---|----------|---------|----------|------------|--------------|----------------------------|
|                    | Zone | X | 13       | 670141  | 3657006  | 33 2 20.85 | 103 10 44.73 |                            |
|                    |      |   | 13       | 670172  | 3655397  | 33 1 28.6  | 103 10 44.61 |                            |

Back

DB File Nbr: L 03929  
Primary Purpose: PRO 72-12-1 PROSPECTING OR DEVELOPMENT OF NATURAL RESOURCE  
Primary Status: PMT Permit  
Total Acres:  
Total Diversion: 0  
Owner: DURHAM DRILLING COMPANY

Documents on File

| Doc   | File/Act   | Status      | 1 | 2     | 3 | Trans Desc | From/To | Acres | Diversion | Consumptive |
|-------|------------|-------------|---|-------|---|------------|---------|-------|-----------|-------------|
| 72121 | 07/16/1958 | PMT LOG ABS | L | 03929 |   |            | T       |       |           | 3           |

(qtr are 1=NW 2=NE 3=SW 4=SE)

| Point of Diversion | (qtr are biggest to smallest) |     |     |     |   |   |   | X Y are in Feet |   | UTM are in Meters) |          |         |          |          |           |                            |                      |
|--------------------|-------------------------------|-----|-----|-----|---|---|---|-----------------|---|--------------------|----------|---------|----------|----------|-----------|----------------------------|----------------------|
| POD Number         | Source                        | Tws | Rng | Sec | q | q | q | Zone            | X | Y                  | UTM Zone | Easting | Northing | Latitude | Longitude | Other Location Description |                      |
| L 03929            | Shallow                       | 15S | 37E | 01  | 1 | 4 | 1 |                 |   |                    | 13       | 672145  | 3658033  | 33       | 2 46.56   | 103 9 26.97                | 1840' FNL, 1650' FWL |
| L 03929 APPRO      | Shallow                       | 15S | 37E | 01  | 1 | 4 | 1 |                 |   |                    | 13       | 672145  | 3658033  | 33       | 2 46.56   | 103 9 26.97                |                      |

New Mexico Office of the State Engineer  
Water Right Summary

Back

DB File Nbr: L 07198  
Primary Purpose: SAN 72-12-1 SANITARY IN CONJUNCTION WITH A COMMERCIAL USE  
Primary Status: PMT Permit  
Total Acres:  
Total Diversion: 3  
Owner: TIPPERARY RESOURCES CORP.

| Documents on File             |            |                        |     |     |   |            |         |       |                                           |
|-------------------------------|------------|------------------------|-----|-----|---|------------|---------|-------|-------------------------------------------|
| Doc                           | File/Act   | Status                 | 1   | 2   | 3 | Trans Desc | From/To | Acres | Diversion Consumptive                     |
| 72121                         | 04/04/1974 | PMT APR CNV CONVERSION | L   | 071 | T |            |         |       | 3                                         |
| (qtr are 1=NW 2=NE 3=SW 4=SE) |            |                        |     |     |   |            |         |       |                                           |
| (qtr are biggest to smallest  |            |                        |     |     |   |            |         |       |                                           |
| Point of Diversion            | Source     | Tws                    | Rng | Sec | q | q          | X       | Y     | UTM are in Meters)                        |
| POD Number                    | Shallow    | 15S                    | 37E | 02  | 3 | 2          | 4       |       | UTM Zone Easting Northing                 |
| L 07198                       |            |                        |     |     |   |            |         |       | 13 670738 3657413 33 2 33.83 103 10 29.16 |
|                               |            |                        |     |     |   |            |         |       | Other Location Description                |

Back

DB File Nbr: L 08594

Primary Purpose: PRO 72-12-1 PROSPECTING OR DEVELOPMENT OF NATURAL RESOURCE

Primary Status: PMT Permit

Total Acres:

Total Diversion: 0

Owner: MOSBACHER PRODUCING CO.

Documents on File

| Doc   | File/Act   | Status | 1 2 3 | Trans_Desc | From/To    | Acres | Diversion | Consumptive |
|-------|------------|--------|-------|------------|------------|-------|-----------|-------------|
| 72121 | 11/05/1981 | PMT    | APR   | CNV        | CONVERSION | L     | 085       | T 3         |

(qtr are 1=NW 2=NE 3=SW 4=SE)

(qtr are biggest to smallest

Source Tws Rng Sec q q q

Shallow 15S 37E 03 3 1 1

X Y are in Feet

X

Zone

Y

UTM are in Meters)

UTM\_Zone

Eastings

Northings

Latitude

Longitude

Other Location Description

33

2

34.08

103

11

47.07

**Back**

DB File Nbr: L 08598

**Primary Purpose:** PRO 72-12-1 PROSPECTING OR DEVELOPMENT OF NATURAL RESOURCE

Primary status: PMT Permit

**Total Acres:**

Total Diversion: 0

Owner: MOSBACHER PRODUCING CO.

## Documents on File

| Doc   | File/Act   | Status | Trans Desc | From/To    | Acres   | Division | Consumptive |
|-------|------------|--------|------------|------------|---------|----------|-------------|
|       |            | 1 2 3  |            |            |         |          |             |
| 72121 | 11/12/1981 | PMT    | APR CNV    | CONVERSION | L 085 T | 3        |             |

(qtr are 1=NW 2=NE 3=SW 4=SE)

(qtr are biggest to smallest

| Source | Tws | Rng | Sec | q | q |
|--------|-----|-----|-----|---|---|
| Source | Tws | Rng | Sec | q | q |

Shallow 15S 37E 03 3 1 3

**Back**

DB File Nbr: L 10685

**Primary Purpose:** SAN 72-12-1 SANITARY IN CONJUNCTION WITH A COMMERCIAL USE

Primary status: PMT Permit

**Total Acres:**

Total Diversion: 3

**Owner:** DEVON ENERGY CORP.

## Documents on File

| Doc   | File/Act   | Status | 1   | 2   | 3 | Trans Desc | From/To | Acres | Diversion | Consumptive |
|-------|------------|--------|-----|-----|---|------------|---------|-------|-----------|-------------|
| 72121 | 06/25/1997 | PMT    | APR | CNV |   | CONVERSION | L 106 T |       | 3         |             |

(qtr are 1=NW 2=NE 3=SW 4=SE)

(qtr are biggest to smallest

| Source | Tws | Rng | Sec | q | q |
|--------|-----|-----|-----|---|---|
| Source | Tws | Rng | Sec | q | q |

15S 37E 02 3 2

X Y are in Feet

Zone X

| Y   | UTM Zone | Easting |
|-----|----------|---------|
| 1   | 18Q      | 500000  |
| 2   | 18Q      | 500000  |
| 3   | 18Q      | 500000  |
| 4   | 18Q      | 500000  |
| 5   | 18Q      | 500000  |
| 6   | 18Q      | 500000  |
| 7   | 18Q      | 500000  |
| 8   | 18Q      | 500000  |
| 9   | 18Q      | 500000  |
| 10  | 18Q      | 500000  |
| 11  | 18Q      | 500000  |
| 12  | 18Q      | 500000  |
| 13  | 18Q      | 500000  |
| 14  | 18Q      | 500000  |
| 15  | 18Q      | 500000  |
| 16  | 18Q      | 500000  |
| 17  | 18Q      | 500000  |
| 18  | 18Q      | 500000  |
| 19  | 18Q      | 500000  |
| 20  | 18Q      | 500000  |
| 21  | 18Q      | 500000  |
| 22  | 18Q      | 500000  |
| 23  | 18Q      | 500000  |
| 24  | 18Q      | 500000  |
| 25  | 18Q      | 500000  |
| 26  | 18Q      | 500000  |
| 27  | 18Q      | 500000  |
| 28  | 18Q      | 500000  |
| 29  | 18Q      | 500000  |
| 30  | 18Q      | 500000  |
| 31  | 18Q      | 500000  |
| 32  | 18Q      | 500000  |
| 33  | 18Q      | 500000  |
| 34  | 18Q      | 500000  |
| 35  | 18Q      | 500000  |
| 36  | 18Q      | 500000  |
| 37  | 18Q      | 500000  |
| 38  | 18Q      | 500000  |
| 39  | 18Q      | 500000  |
| 40  | 18Q      | 500000  |
| 41  | 18Q      | 500000  |
| 42  | 18Q      | 500000  |
| 43  | 18Q      | 500000  |
| 44  | 18Q      | 500000  |
| 45  | 18Q      | 500000  |
| 46  | 18Q      | 500000  |
| 47  | 18Q      | 500000  |
| 48  | 18Q      | 500000  |
| 49  | 18Q      | 500000  |
| 50  | 18Q      | 500000  |
| 51  | 18Q      | 500000  |
| 52  | 18Q      | 500000  |
| 53  | 18Q      | 500000  |
| 54  | 18Q      | 500000  |
| 55  | 18Q      | 500000  |
| 56  | 18Q      | 500000  |
| 57  | 18Q      | 500000  |
| 58  | 18Q      | 500000  |
| 59  | 18Q      | 500000  |
| 60  | 18Q      | 500000  |
| 61  | 18Q      | 500000  |
| 62  | 18Q      | 500000  |
| 63  | 18Q      | 500000  |
| 64  | 18Q      | 500000  |
| 65  | 18Q      | 500000  |
| 66  | 18Q      | 500000  |
| 67  | 18Q      | 500000  |
| 68  | 18Q      | 500000  |
| 69  | 18Q      | 500000  |
| 70  | 18Q      | 500000  |
| 71  | 18Q      | 500000  |
| 72  | 18Q      | 500000  |
| 73  | 18Q      | 500000  |
| 74  | 18Q      | 500000  |
| 75  | 18Q      | 500000  |
| 76  | 18Q      | 500000  |
| 77  | 18Q      | 500000  |
| 78  | 18Q      | 500000  |
| 79  | 18Q      | 500000  |
| 80  | 18Q      | 500000  |
| 81  | 18Q      | 500000  |
| 82  | 18Q      | 500000  |
| 83  | 18Q      | 500000  |
| 84  | 18Q      | 500000  |
| 85  | 18Q      | 500000  |
| 86  | 18Q      | 500000  |
| 87  | 18Q      | 500000  |
| 88  | 18Q      | 500000  |
| 89  | 18Q      | 500000  |
| 90  | 18Q      | 500000  |
| 91  | 18Q      | 500000  |
| 92  | 18Q      | 500000  |
| 93  | 18Q      | 500000  |
| 94  | 18Q      | 500000  |
| 95  | 18Q      | 500000  |
| 96  | 18Q      | 500000  |
| 97  | 18Q      | 500000  |
| 98  | 18Q      | 500000  |
| 99  | 18Q      | 500000  |
| 100 | 18Q      | 500000  |

13 670639

UTM are in Meters)

Latitude

103 10 29.16

 Other Location Description |

New Mexico Office of the State Engineer  
Well Reports and Downloads

Township: 14S    Range: 37E    Sections: 34,35,36

NAD27    X:    Y:    Zone:    Search Radius:

County:    Basin:    Number:    Suffix:

Owner Name: (First) (Last)    ☐ Non-Domestic    ☐ Domestic    ☒ All

Well / Surface Data Report

Avg Depth to Water Report

Water Column Report

Clear Form

WATERS Menu

Help

WELL / SURFACE DATA REPORT 09/19/2002

| (acre ft per annum) |     |           |                               |               |         |     |     |     |   | (quarters are 1=NW 2=NE 3=SW 4=SE) |   |      |        |         |          |         |          |     |  | X Y are in Feet |  | UTM are in Meters) |  | Sta |
|---------------------|-----|-----------|-------------------------------|---------------|---------|-----|-----|-----|---|------------------------------------|---|------|--------|---------|----------|---------|----------|-----|--|-----------------|--|--------------------|--|-----|
| DB File Nbr         | Use | Diversion | Owner                         | Well Number   | Source  | Tws | Rng | Sec | q | q                                  | q | Zone | X      | Y       | UTM Zone | Easting | Northing | Dat |  |                 |  |                    |  |     |
| L 00328             | IRR | 1214.04   | WIER BROS. A PARTNERSHIP      | L 00328 S2    | Shallow | 14S | 37E | 34  | 1 | 3                                  | 1 | 13   | 668490 | 3659590 | 01/      |         |          |     |  |                 |  |                    |  |     |
|                     |     |           |                               | L 00328 S4    |         | 14S | 37E | 34  | 3 | 1                                  | 1 | 13   | 668498 | 3659188 |          |         |          |     |  |                 |  |                    |  |     |
| L 01092             | PRO | 3         | MAGNOLIA PETROLEUM COMPANY    | L 01092 APPRO | Shallow | 14S | 37E | 35  | 4 | 3                                  |   | 13   | 671022 | 3658720 | 03/      |         |          |     |  |                 |  |                    |  |     |
| L 01096             | PRO | 3         | PHILLIPS PETROLEUM COMPANY    | L 01096 APPRO | Shallow | 14S | 37E | 34  | 2 | 2                                  |   | 13   | 669791 | 3659911 | 04/      |         |          |     |  |                 |  |                    |  |     |
| L 01234             | PRO | 3         | CORBET DRILLING CO.           | L 01234 APPRO | Shallow | 14S | 37E | 34  | 2 | 4                                  |   | 13   | 669799 | 3659509 | 10/      |         |          |     |  |                 |  |                    |  |     |
| L 01388             | PRO | 3         | RALPH INC. LOWE               | L 01388 APPRO |         | 14S | 37E | 34  | 4 | 2                                  |   | 13   | 669806 | 3659106 |          |         |          |     |  |                 |  |                    |  |     |
| L 01403             | STK | 3         | J. M. GARDNER                 | L 01403 APPRO | Shallow | 14S | 37E | 36  | 3 | 4                                  | 2 | 13   | 672330 | 3658836 | 05/      |         |          |     |  |                 |  |                    |  |     |
| L 01440             | PRO | 3         | TRINITY DRILLING CO.          | L 01440 APPRO | Shallow | 14S | 37E | 34  | 2 | 1                                  |   | 13   | 669389 | 3659905 | 05/      |         |          |     |  |                 |  |                    |  |     |
| L 01488             | PRO | 3         | RALPH INC. LOWE               | L 01488 APPRO | Shallow | 14S | 37E | 35  | 1 | 4                                  |   | 13   | 670604 | 3659520 | 07/      |         |          |     |  |                 |  |                    |  |     |
| L 01560             | PRO | 3         | CORBETT DRILLING CO.          | L 01560 APPRO | Shallow | 14S | 37E | 35  | 3 | 3                                  | 4 | 13   | 670315 | 3658609 | 09/      |         |          |     |  |                 |  |                    |  |     |
| L 01573             | PRO | 3         | MAGNOLIA PETROLEUM COMPANY    | L 01573 APPRO | Shallow | 14S | 37E | 35  | 4 | 3                                  |   | 13   | 671022 | 3658720 | 09/      |         |          |     |  |                 |  |                    |  |     |
| L 01665             | PRO | 3         | MAGNOLIA PETROLEUM COMPANY    | L 01665 APPRO | Shallow | 14S | 37E | 35  | 4 | 4                                  |   | 13   | 671426 | 3658726 | 11/      |         |          |     |  |                 |  |                    |  |     |
| L 01679             | PRO | 3         | MAGNOLIA PETROLEUM COMPANY    | L 01679       | Shallow | 14S | 37E | 35  | 2 | 3                                  |   | 13   | 671007 | 3659525 |          |         |          |     |  |                 |  |                    |  |     |
|                     |     |           |                               | L 01679 APPRO | Shallow | 14S | 37E | 35  |   |                                    |   | 13   | 670819 | 3659313 |          |         |          |     |  |                 |  |                    |  |     |
| L 01683             | PRO | 3         | WARREN & BRADSHAW DRILLING CO | L 01683       | Shallow | 14S | 37E | 36  | 3 | 3                                  |   | 13   | 671829 | 3658731 | 12/      |         |          |     |  |                 |  |                    |  |     |
|                     |     |           |                               | L 01683 APPRO | Shallow | 14S | 37E | 36  | 3 | 3                                  |   | 13   | 671829 | 3658731 | 12/      |         |          |     |  |                 |  |                    |  |     |
| L 01942             | PRO | 3         | BRAHANEY DRILLING COMPANY     | L 01942       | Shallow | 14S | 37E | 35  | 3 | 3                                  |   | 13   | 670216 | 3658710 | 01/      |         |          |     |  |                 |  |                    |  |     |
|                     |     |           |                               | L 01942 APPRO | Shallow | 14S | 37E | 35  | 3 | 3                                  |   | 13   | 670216 | 3658710 | 01/      |         |          |     |  |                 |  |                    |  |     |
| L 02042             | PRO | 3         | RALPH INC. LOWE               | L 02042       |         | 14S | 37E | 35  |   |                                    |   | 13   | 670819 | 3659313 |          |         |          |     |  |                 |  |                    |  |     |
| L 02085             | PRO | 3         | WARREN & BRADSHAW DRILLING CO | L 02085       | Shallow | 14S | 37E | 36  | 4 | 1                                  |   | 13   | 672626 | 3659145 | 03/      |         |          |     |  |                 |  |                    |  |     |
|                     |     |           |                               | L 02085 APPRO | Shallow | 14S | 37E | 36  | 4 | 1                                  |   | 13   | 672626 | 3659145 | 03/      |         |          |     |  |                 |  |                    |  |     |
| L 02103             | PRO | 3         | RAY MORRIS DRILLING CO.       | L 02103       |         | 14S | 37E | 35  | 4 | 4                                  |   | 13   | 671426 | 3658726 |          |         |          |     |  |                 |  |                    |  |     |
|                     |     |           |                               | L 02103 APPRO |         | 14S | 37E | 35  | 4 | 4                                  |   | 13   | 671426 | 3658726 |          |         |          |     |  |                 |  |                    |  |     |
| L 02116             | PRO | 3         | CORCO DRILLING CO.            | L 02116       | Shallow | 14S | 37E | 36  | 3 | 2                                  |   | 13   | 672223 | 3659139 | 04/      |         |          |     |  |                 |  |                    |  |     |
|                     |     |           |                               | L 02116 APPRO | Shallow | 14S | 37E | 36  | 3 | 2                                  |   | 13   | 672223 | 3659139 | 04/      |         |          |     |  |                 |  |                    |  |     |
| L 02118             | DOM | 3         | MRS. FONZO FORT               | L 02118       |         | 14S | 37E | 34  | 1 | 4                                  | 2 | 13   | 669093 | 3659596 |          |         |          |     |  |                 |  |                    |  |     |



|   |       |     |   |                                |   |       |       |     |     |    |   |   |   |        |         |
|---|-------|-----|---|--------------------------------|---|-------|-------|-----|-----|----|---|---|---|--------|---------|
| L | 02222 | PRO | 3 | STONE DRILLING CO.             | L | 02118 | APPRO | 14S | 37E | 34 | 1 | 4 | 2 | 669093 | 3659596 |
| L | 02222 | PRO |   |                                | L | 02222 | APPRO | 14S | 37E | 35 | 4 | 2 |   | 671418 | 3659128 |
| L | 02297 | PRO | 3 | WARREN & BRADSHAW DRILLING CO  | L | 02222 | APPRO | 14S | 37E | 35 | 4 | 2 |   | 671418 | 3659128 |
| L | 02334 | PRO | 3 | THOMPSON-CARR DRILLING CO.     | L | 02297 | APPRO | 14S | 37E | 35 | 2 | 2 |   | 671402 | 3659933 |
| L | 02473 | PRO | 3 | FRISBIE & YANCEY DRILLING CO.  | L | 02297 | APPRO | 14S | 37E | 35 | 2 | 2 |   | 671402 | 3659933 |
| L | 02531 | PRO | 3 | FRANK FRAWLEY DRILLING CO.     | L | 02334 | APPRO | 14S | 37E | 36 | 1 | 1 |   | 671805 | 3659938 |
| L | 02763 | PRO | 3 | COROCO DRILLING CO.            | L | 02334 | APPRO | 14S | 37E | 36 | 1 | 1 |   | 671805 | 3659938 |
| L | 02764 | PRO | 0 | FRISBEE, YANCEY & MCKNIGHT DRI | L | 02473 | APPRO | 14S | 37E | 36 | 1 | 4 |   | 672215 | 3659542 |
| L | 02953 | PRO | 3 | WESTLUND DRILLING CO.          | L | 02473 | APPRO | 14S | 37E | 36 | 1 | 4 |   | 672215 | 3659542 |
| L | 04694 | DOM | 3 | SINCLAIR OIL & GAS COMPANY     | L | 02531 | APPRO | 14S | 37E | 36 | 1 | 3 |   | 671813 | 3659536 |
| L | 06236 | DOM |   | CLARENCE L. PAPE               | L | 02531 | APPRO | 14S | 37E | 36 | 1 | 3 |   | 671813 | 3659536 |
| L | 06263 | DOM | 3 | B. H. POPE                     | L | 02763 | APPRO | 14S | 37E | 36 | 4 | 2 |   | 673028 | 3659151 |
|   |       |     |   |                                | L | 02763 | APPRO | 14S | 37E | 36 | 4 | 2 |   | 673028 | 3659151 |
|   |       |     |   |                                | L | 02764 |       | 14S | 37E | 36 | 2 | 2 |   | 673012 | 3659955 |
|   |       |     |   |                                | L | 02953 |       | 14S | 37E | 36 | 4 | 2 |   | 673028 | 3659151 |
|   |       |     |   |                                | L | 02953 | APPRO | 14S | 37E | 36 | 4 | 2 |   | 673028 | 3659151 |
|   |       |     |   |                                | L | 04694 |       | 14S | 37E | 36 | 1 | 4 | 3 | 672114 | 3659441 |
|   |       |     |   |                                | L | 04694 | APPRO | 14S | 37E | 36 | 1 | 4 | 3 | 672114 | 3659441 |
|   |       |     |   |                                | L | 06236 | EXP   | 14S | 37E | 35 | 4 |   |   | 671223 | 3658921 |
|   |       |     |   |                                | L | 06263 |       | 14S | 37E | 36 | 4 | 1 | 3 | 672525 | 3659044 |

Record Count: 46

New Mexico Office of the State Engineer  
Water Right Summary

Back

DB File Nbr: L 00328

Primary Purpose: IRR IRRIGATION

Primary Status: PMT Permit

Total Acres: 404.68

Total Diversion: 1214.04

Owner: WIER BROS. A PARTNERSHIP

Contact: ALLEN WIER

Documents on File

| Doc   | File/Act   | Status      | 1 | 2     | 3  | Trans Desc | From/To | Acres  | Diversion | Consumptive |
|-------|------------|-------------|---|-------|----|------------|---------|--------|-----------|-------------|
| CLW   | 02/28/2001 | PMT PCW PRC | L | 00328 | S3 |            | T       | 0      | 0         |             |
| CLW   | 02/28/2001 | PMT PCW PRC | L | 00328 | S3 |            | F       | 0      | 0         |             |
| CLW   | 01/05/2000 | PMT PCW PRC | L | 00328 | S2 |            | T       | 0      | 0         |             |
| CLW   | 01/05/2000 | PMT PCW PRC | L | 00328 | S2 |            | F       | 0      | 0         |             |
| CLWEL | 03/10/1998 | PMT APR ABS | L | 00328 | B  |            | F       | -31.4  | -94.2     |             |
| SUPPL | 07/15/1996 | PMT APR ABS | L | 00328 | S5 |            | T       | 0      | 0         |             |
| COWNF | 04/23/1996 | CHG PRC ABS | L | 00328 |    |            | T       | 0      | 0         |             |
| CLW   | 05/01/1995 | PMT APR ABS | L | 00328 |    |            | T       | 0      | 0         |             |
| CLW   | 05/01/1995 | PMT APR ABS | L | 00328 |    |            | F       | 0      | 0         |             |
| REPAR | 01/05/1995 | PMT APR ABS | L | 00328 |    |            | T       | 0      | 0         |             |
| CLW   | 05/11/1994 | PMT APR ABS | L | 00328 | S  |            | T       | 0      | 0         |             |
| CLW   | 05/11/1994 | PMT APR ABS | L | 00328 | S  |            | F       | 0      | 0         |             |
| ADM   | 02/26/1990 | PMT APR ABS | L | 00328 |    |            | T       | 436.08 | 1308.24   |             |

(qtr are 1=NW 2=NE 3=SW 4=SE)

(qtr are biggest to smallest

| Point of Diversion |  | UTM are in Meters) |     |     |     | X Y are in Feet |   | Other Location Description |   |
|--------------------|--|--------------------|-----|-----|-----|-----------------|---|----------------------------|---|
| POD Number         |  | Source             | Tws | Rng | Sec | q               | q | q                          | q |
| L 00328            |  |                    | 14S | 37E | 27  | 3               | 1 |                            |   |
| L 00328 S          |  |                    | 14S | 37E | 27  | 3               | 2 |                            |   |
| L 00328 S2         |  | Shallow            | 14S | 37E | 34  | 1               | 3 | 1                          |   |
| L 00328 S3         |  | Shallow            | 14S | 37E | 27  | 3               | 3 | 3                          |   |
| L 00328 S4         |  |                    | 14S | 37E | 34  | 3               | 1 | 1                          |   |
| L 00328 S5         |  |                    | 14S | 37E | 27  | 2               | 2 |                            |   |
| L 00695            |  |                    | 14S | 37E | 27  | 2               | 1 | 1                          |   |
| L 00695 S          |  |                    | 14S | 37E | 27  | 2               | 2 | 3                          |   |

(quarters are 1=NW 2=NE 3=SW 4=SE)

(quarters are biggest to smallest

| Place of Use |     | Status |   |   |   | Other Location Description |           |
|--------------|-----|--------|---|---|---|----------------------------|-----------|
| Tws          | Rng | Sec    | q | q | q | Use                        | Priority  |
| 14S          | 37E | 27     |   |   |   | Acres                      | Diversion |
| 14S          | 37E | 27     |   |   |   | 140.84                     | 422.52    |
| 14S          | 37E | 27     |   |   |   | 15.7                       | 47.1      |
| 14S          | 37E | 27     |   |   |   | 31.4                       | 94.2      |
| 14S          | 37E | 34     |   |   |   | 295.24                     | 885.72    |
| 14S          | 37E | 34     |   |   |   | 15.7                       | 47.1      |

Back

DB File Nbr: L 01092

Primary Purpose: PRO 72-12-1 PROSPECTING OR DEVELOPMENT OF NATURAL RESOURCE

Primary Status: PMT Permit

Total Acres:

Total Diversion: 3

Owner: MAGNOLIA PETROLEUM COMPANY

Documents on File

| Doc   | File/Act   | Status      | 1 | 2 | 3 | Trans Desc | From/To | Acres | Diversion | Consumptive |
|-------|------------|-------------|---|---|---|------------|---------|-------|-----------|-------------|
| 72121 | 03/30/1951 | PMT LOG ABS | T |   |   | T 01092    | T       |       |           | 3           |

(qtr are 1=NW 2=NE 3=SW 4=SE)

Point of Diversion

POD Number

L 01092 APPRO

(qtr are biggest to smallest

Source Tws Rng Sec q q q

Shallow 14S 37E 35 4 3

X Y are in Feet

Zone X

Y

UTM are in Meters)

UTM Zone Easting Northing

13

671022

3658720

33 3 12.78

103 10 13.59

Other Location Description

New Mexico Office of the State Engineer  
Water Right Summary

Back

DB File Nbr: L 01096

Primary Purpose: PRO 72-12-1 PROSPECTING OR DEVELOPMENT OF NATURAL RESOURCE

Primary Status: PMT Permit

Total Acres:

Total Diversion: 3

Owner: PHILLIPS PETROLEUM COMPANY

Documents on File

| Doc   | File/Act   | Status      | 1 | 2     | 3 | Trans Desc | From/To | Acres | Diversion | Consumptive |
|-------|------------|-------------|---|-------|---|------------|---------|-------|-----------|-------------|
| 72121 | 04/10/1951 | PMT LOG ABS | L | 01096 |   |            | T       |       |           | 3           |

(qtr are 1=NW 2=NE 3=SW 4=SE)

Point of Diversion

POD Number

L 01096 APPRO

(qtr are biggest to smallest

Source Tws Rng Sec q q q

Shallow 14S 37E 34 2 2

X Y are in Feet

Zone

X

UTM are in Meters)

UTM\_Zone

13

Eastings

669791

Northing

3659911

Latitude

33 3

Longitude

103 11

Other Location Description

.25

Back

DB File Nbr: L 01234  
Primary Purpose: PRO 72-12-1 PROSPECTING OR DEVELOPMENT OF NATURAL RESOURCE  
Primary Status: PMT Permit  
Total Acres:  
Total Diversion: 3  
Owner: CORBET DRILLING CO.

Documents on File

| Doc   | File/Act   | Status      | 1 | 2     | 3 | Trans Desc | From/To | Acres | Diversion | Consumptive |
|-------|------------|-------------|---|-------|---|------------|---------|-------|-----------|-------------|
| 72121 | 10/16/1951 | PMT LOG ABS | L | 01234 |   |            | T       |       |           | 3           |

(qtr are 1=NW 2=NE 3=SW 4=SE)  
Point of Diversion (qtr are biggest to smallest X Y are in Feet UTM are in Meters)  
POD Number Source Tws Rng Sec q q q Zone X Y UTM\_Zone Easting Northing Latitude Longitude Other Location Description  
L 01234 APPRO Shallow 14S 37E 34 2 4 3659509 33 3 39.05 103 11 .23

*New Mexico Office of the State Engineer*  
**Water Right Summary**

**Back**

DB File Nbr: L 01388

**Primary Purpose:** PRO 72-12-1 PROSPECTING OR DEVELOPMENT OF NATURAL RESOURCE

Primary Status: PMT Permit

**Total Acres:**

**Total Diversion: 3**

Owner: RALPH INC. LOWE

## Documents on File

| Doc   | File/Act   | Status | 1   | 2   | 3 | Trans Desc | From/To | Acres | Diversion | Consumptive |
|-------|------------|--------|-----|-----|---|------------|---------|-------|-----------|-------------|
| 72121 | 03/19/1952 | PMT    | APR | ABS | L | 01388      |         |       |           |             |
|       |            |        |     |     |   |            | T       |       | 3         | 3           |

(qtr are 1=NW 2=NE 3=SW 4=SE)

(qtr are biggest to smallest

| Source | Tws | Rng | Sec | q | q |
|--------|-----|-----|-----|---|---|
| Source | Tws | Rng | Sec | q | q |

14S 37E 34 4 2

L 01388 APPRO

New Mexico Office of the State Engineer  
Water Right Summary

Back

DB File Nbr: L 01403  
Primary Purpose: STK 72-12-1 LIVESTOCK WATERING  
Primary Status: PMT Permit  
Total Acres:  
Total Diversions: 3  
Owner: J. M. GARDNER

Documents on File

| Doc   | File/Act   | Status      | 1 | 2     | 3 | Trans | Desc | From/To | Acres | Diversion | Consumptive |
|-------|------------|-------------|---|-------|---|-------|------|---------|-------|-----------|-------------|
| 72121 | 03/31/1952 | PMT LOG ABS | L | 01403 |   |       |      | T       |       | 3         |             |

(qtr are 1=NW 2=NE 3=SW 4=SE)  
(qtr are biggest to smallest)  
Point of Diversion  
POD Number  
L 01403 APPRO

Source  
Shallow

Tws  
14S

Rng  
36

Sec  
3

q  
4

q  
2

X Y are in Feet  
X

Zone  
T

UTM are in Meters)  
Y

UTM\_Zone  
13

Eastings  
672330

Northings  
3658836

Latitude  
33

Longitude  
3 12.62

Other Location Description  
103 9 26.99

DB File Nbr: L 01440

Primary Purpose: PRO 72-12-1 PROSPECTING OR DEVELOPMENT OF NATURAL RESOURCE

Primary Status: PMT Permit

Total Acres:

Total Diversion: 3

Owner: TRINITY DRILLING CO.

Back

Documents on File

| Doc   | File/Act   | Status      | 1 | 2     | 3 | Trans | Desc | From/To | Acres | Diversion | Consumptive |
|-------|------------|-------------|---|-------|---|-------|------|---------|-------|-----------|-------------|
| 72121 | 05/08/1952 | PMT LOG ABS | L | 01440 |   |       |      | T       |       |           | 3           |

(qtr are 1=NW 2=NE 3=SW 4=SE)  
(qtr are biggest to smallest)  
Source    Tws    Rng    Sec    q    q    q  
Shallow   14§   37E   34   2   1

Point of Diversion    X   Y   are in Feet    UTM are in Meters)  
POD Number    Source    Tws    Rng    Sec    q    q    q    X   Y   UTM\_Zone    Easting    Northing    Latitude    Longitude    Other Location Description  
L   01440   APPRO    Shallow   14§   37E   34   2   1    13   669389   3659905   33   3   52.14   103   11   15.77



Back

DB File Nbr: L 01488

Primary Purpose: PRO 72-12-1 PROSPECTING OR DEVELOPMENT OF NATURAL RESOURCE

Primary Status: PMT Permit

Total Acres:

Total Diversion: 3

Owner: RALPH INC. LOWE

Documents on File

| Doc   | File/Act   | Status      | 1 | 2     | 3 | Trans | Desc | From/To | Acres | Diversion | Consumptive |
|-------|------------|-------------|---|-------|---|-------|------|---------|-------|-----------|-------------|
| 72121 | 07/15/1952 | PMT LOG ABS | L | 01488 |   |       |      | T       |       |           | 3           |

(qtr are 1=NW 2=NE 3=SW 4=SE)

| Point of Diversion | Source  | Tws | Rng | Sec | q | q | q | X    | Y | are in Feet | UTM are in Meters) | UTM Zone | Easting | Northing | Latitude   | Longitude    | Other Location Description |
|--------------------|---------|-----|-----|-----|---|---|---|------|---|-------------|--------------------|----------|---------|----------|------------|--------------|----------------------------|
| L 01488 APPRO      | Shallow | 14S | 37E | 35  | 1 | 4 |   | Zone | X |             |                    | 13       | 670604  | 3659520  | 33 3 38.96 | 103 10 29.18 |                            |

Back

DB File Nbr: L 01560  
Primary Purpose: PRO 72-12-1 PROSPECTING OR DEVELOPMENT OF NATURAL RESOURCE  
Primary Status: PMT Permit  
Total Acres:  
Total Diversion: 3  
Owner: CORBETT DRILLING CO.

Documents on File

| Doc   | File/Act   | Status      | 1 | 2     | 3 | Trans_Desc | From/To | Acres | Diversion | Consumptive |
|-------|------------|-------------|---|-------|---|------------|---------|-------|-----------|-------------|
| 72121 | 09/10/1952 | PMT LOG ABS | L | 01560 |   |            | T       |       |           | 3           |

(qtr are 1=NW 2=NE 3=SW 4=SE)  
(qtr are biggest to smallest)  
Source Tws Rng Sec q q q  
Shallow 14S 37E 35 3 3 4

| Point of Diversion | UTM are in Meters) | UTM Zone | Easting | Northing | Latitude   | Longitude    | Other Location Description |
|--------------------|--------------------|----------|---------|----------|------------|--------------|----------------------------|
| POD Number         |                    | Y        | 670315  | 3658609  | 33 3 12.89 | 103 10 44.69 |                            |
| L 01560 APPRO      |                    | 13       |         |          |            |              |                            |

New Mexico Office of the State Engineer  
Water Right Summary

Back

DB File Nbr: L 01573  
Primary Purpose: PRO 72-12-1 PROSPECTING OR DEVELOPMENT OF NATURAL RESOURCE  
Primary Status: PMT Permit  
Total Acres:  
Total Diversion: 3  
Owner: MAGNOLIA PETROLEUM COMPANY

Documents on File

| Doc   | File/Act   | Status      | 1 | 2     | 3 | Trans | Desc | From/To | Acres | Diversion | Consumptive |
|-------|------------|-------------|---|-------|---|-------|------|---------|-------|-----------|-------------|
| 72121 | 09/22/1952 | PMT LOG ABS | L | 01573 |   |       |      | T       |       |           | 3           |

(qtr are 1=NW 2=NE 3=SW 4=SE)  
(qtr are biggest to smallest)  
Source Tws Rng Sec q q q  
Shallow 14S 37E 35 4 3

| Point of Diversion | UTM are in Meters | UTM Zone | Easting | Northing | Latitude   | Longitude    | Other Location Description |
|--------------------|-------------------|----------|---------|----------|------------|--------------|----------------------------|
| POD Number         |                   | Y        | 671022  | 3658720  | 33 3 12.78 | 103 10 13.59 |                            |
| L 01573 APPRO      |                   | 13       |         |          |            |              |                            |



Back

DB File Nbr: L 01679

Primary Purpose: PRO 72-12-1 PROSPECTING OR DEVELOPMENT OF NATURAL RESOURCE

Primary Status: PMT Permit

Total Acres:

Total Diversion: 3

Owner: MAGNOLIA PETROLEUM COMPANY

Documents on File

| Doc   | File/Act   | Status      | 1 | 2     | 3 | Trans Desc | From/To | Acres | Diversion | Consumptive |
|-------|------------|-------------|---|-------|---|------------|---------|-------|-----------|-------------|
| 72121 | 12/12/1952 | PMT LOG ABS | L | 01679 |   |            | T       |       |           | 3           |

(qtr are 1=NW 2=NE 3=SW 4=SE)

Point of Diversion

| POD Number    | Source  | Tws | Rng | Sec | q | q | q | q | X | Y | UTM Zone | Easting | Northing | Latitude | Longitude | Other Location Description |
|---------------|---------|-----|-----|-----|---|---|---|---|---|---|----------|---------|----------|----------|-----------|----------------------------|
| L 01679       | Shallow | 14S | 37E | 35  | 2 | 3 |   |   |   |   | 13       | 671007  | 3659525  | 33 3     | 38.9      | 103 10 13.64               |
| L 01679 APPRO | Shallow | 14S | 37E | 35  |   |   |   |   |   |   | 13       | 670819  | 3659313  | 33 3     | 12.89     | 103 10 44.69               |

Back

DB File Nbr: L 01683  
Primary Purpose: PRO 72-12-1 PROSPECTING OR DEVELOPMENT OF NATURAL RESOURCE  
Primary Status: PMT Permit  
Total Acres:  
Total Diversion: 3  
Owner: WARREN & BRADSHAW DRILLING CO

Documents on File

| Doc   | File/Act   | Status      | 1 | 2     | 3 | Trans_Desc | From/To | Acres | Diversion | Consumptive |
|-------|------------|-------------|---|-------|---|------------|---------|-------|-----------|-------------|
| 72121 | 12/12/1952 | PMT LOG ABS | L | 01683 |   |            | T       |       | 3         |             |

(qtr are 1=NW 2=NE 3=SW 4=SE)  
(qtr are biggest to smallest)  
Source Tws Rng Sec q q q  
Shallow 14S 37E 36 3 3  
Shallow 14S 37E 36 3 3

| Point of Diversion | UTM are in Meters | UTM Zone | Easting | Northing | Latitude   | Longitude   | Other Location Description |
|--------------------|-------------------|----------|---------|----------|------------|-------------|----------------------------|
| POD Number         |                   |          |         |          |            |             |                            |
| L 01683            |                   | 13       | 671829  | 3658731  | 33 3 12.66 | 103 9 42.49 |                            |
| L 01683 APPRO      |                   | 13       | 671829  | 3658731  | 33 3 12.66 | 103 9 42.49 |                            |

Back

DB File Nbr: L 01942

Primary Purpose: PRO 72-12-1 PROSPECTING OR DEVELOPMENT OF NATURAL RESOURCE

Primary Status: PMT Permit

Total Acres:

Total Diversion: 3

Owner: BRAHANEY DRILLING COMPANY

Documents on File

| Doc   | File/Act   | Status      | 1 | 2     | 3 | Trans_Desc | From/To | Acres | Diversion | Consumptive |
|-------|------------|-------------|---|-------|---|------------|---------|-------|-----------|-------------|
| 72121 | 02/11/1953 | PMT IOG ABS | L | 01942 |   |            | T       |       |           | 3           |

(qtr are 1=NW 2=NE 3=SW 4=SE)

(qtr are biggest to smallest

Source Tws Rng Sec q q q

Shallow 14S 37E 35 3 3

Shallow 14S 37E 35 3 3

X Y are in Feet

Zone X

UTM are in Meters)

UTM Zone Easting Northing

13 670216 3658710

13

670216

3658710

33 3 12.89

103 10 44.69

103 10 44.69

Other Location Description

Latitude

Longitude

Point of Diversion

POD Number

L 01942

L 01942 APPRO

New Mexico Office of the State Engineer  
Water Right Summary

Back

DB File Nbr: L 02116

Primary Purpose: PRO 72-12-1 PROSPECTING OR DEVELOPMENT OF NATURAL RESOURCE

Primary Status: PMT Permit

Total Acres:

Total Diversion: 3

Owner: CORCO DRILLING CO.

Documents on File

| Doc   | File/Act   | Status      | 1 | 2     | 3 | Trans | Desc | From/To | Acres | Diversion | Consumptive |
|-------|------------|-------------|---|-------|---|-------|------|---------|-------|-----------|-------------|
| 72121 | 04/13/1953 | PMT LOG ABS | L | 02116 |   |       |      | T       |       | 3         |             |

(qtr are 1=NW 2=NE 3=SW 4=SE)

(qtr are biggest to smallest

Source Tws Rng Sec q q q

Shallow 14S 37E 36 3 2

Shallow 14S 37E 36 3 2

X Y are in Feet

X

Zone

Zone

UTM are in Meters)

UTM\_Zone Easting

13 672223

13 672223

Northing

3659139

3659139

Latitude

33 3 25.69

33 3 25.69

Longitude

103 9 27.02

103 9 27.02

Other Location Description



*New Mexico Office of the State Engineer*  
**Water Right Summary**

**Back**

DB File Nbr: L 02118  
Primary Purpose: DOM 72-12-1 DOMESTIC ONE HOUSEHOLD  
Primary Status: PMT Permit  
Total Acres: 3  
Total Diversion: 3  
Owner: MRS. FONZO FORT

## Documents on File

| Doc   | File/Act   | Status | Trans Desc | From/To | Acres | Diversion | Consumptive |
|-------|------------|--------|------------|---------|-------|-----------|-------------|
|       |            | 1 2 3  |            |         |       |           |             |
| 72121 | 04/13/1953 | PMT    | APR ABS    | L 02118 | T     | 3         | 3           |

(qtr are 1=NW 2=NE 3=SW 4=SE)

| Point of Diversion |        | (qtr are biggest to smallest) |     |     |       | X Y are in Feet |   | UTM are in Meters) |          |        |          | Other Location Description |              |
|--------------------|--------|-------------------------------|-----|-----|-------|-----------------|---|--------------------|----------|--------|----------|----------------------------|--------------|
| POD Number         | Source | Tws                           | Rng | Sec | q q   | Zone            | X | Y                  | UTM Zone | Eastng | Northing | Latitude                   | Longitude    |
| L 02118            |        | 14S                           | 37E | 34  | 1 4 2 |                 |   |                    | 13       | 669093 | 3659596  | 33 3 39.12                 | 103 11 31.26 |
| L 02118 APPRO      |        | 14S                           | 37E | 34  | 1 4 2 |                 |   |                    | 13       | 669093 | 3659596  | 33 3 39.12                 | 103 11 31.26 |

Back

DB File Nbr: L 02222  
Primary Purpose: PRO 72-12-1 PROSPECTING OR DEVELOPMENT OF NATURAL RESOURCE  
Primary Status: PMT Permit  
Total Acres:  
Total Diversion: 3  
Owner: STONE DRILLING CO.

Documents on File

| Doc   | File/Act   | Status      | 1 | 2 | 3 | Trans | Desc  | From/To | Acres | Diversion | Consumptive |
|-------|------------|-------------|---|---|---|-------|-------|---------|-------|-----------|-------------|
| 72121 | 06/03/1953 | PMT LOG ABS | L |   |   |       | 02222 | T       |       |           | 3           |

(qtr are 1=NW 2=NE 3=SW 4=SE)

| Point of Diversion | (qtr are biggest to smallest |     |     |     |   |   | X Y are in Feet |   | UTM are in Meters) |          |         |          |          |           |                            |  |
|--------------------|------------------------------|-----|-----|-----|---|---|-----------------|---|--------------------|----------|---------|----------|----------|-----------|----------------------------|--|
| POD Number         | Source                       | Tws | Rng | Sec | q | q | Zone            | X | Y                  | UTM Zone | Easting | Northing | Latitude | Longitude | Other Location Description |  |
| L 02222            | Shallow                      | 14S | 37E | 35  | 4 | 2 |                 |   |                    | 13       | 671418  | 3659128  | 33       | 3 25.78   | 103 9 58.07                |  |
| L 02222 APPRO      | Shallow                      | 14S | 37E | 35  | 4 | 2 |                 |   |                    | 13       | 671418  | 3659128  | 33       | 3 25.78   | 103 9 58.07                |  |

Back

DB File Nbr: L 02297

Primary Purpose: PRO 72-12-1 PROSPECTING OR DEVELOPMENT OF NATURAL RESOURCE

Primary Status: PMT Permit

Total Acres:

Total Diversion: 3

Owner: WARREN & BRADSHAW DRILLING CO

Documents on File

| Doc   | File/Act   | Status      | 1 | 2     | 3 | Trans Desc | From/To | Acres | Diversion | Consumptive |
|-------|------------|-------------|---|-------|---|------------|---------|-------|-----------|-------------|
| 72121 | 07/31/1953 | PMT LOG ABS | L | 02297 |   |            | T       |       |           | 3           |

(qtr are 1=NW 2=NE 3=SW 4=SE)

| Point of Diversion | Source  | Tws | Rng | Sec | q | q | q | X | Y | UTM Zone | Easting | Northing | Latitude   | Longitude   | Other Location Description |
|--------------------|---------|-----|-----|-----|---|---|---|---|---|----------|---------|----------|------------|-------------|----------------------------|
| L 02297            | Shallow | 14S | 37E | 35  | 2 | 2 |   |   |   | 13       | 671402  | 3659933  | 33 3 51.92 | 103 9 58.13 |                            |
| L 02297 APPRO      | Shallow | 14S | 37E | 35  | 2 | 2 |   |   |   | 13       | 671402  | 3659933  | 33 3 51.92 | 103 9 58.13 |                            |

Back

DB File Nbr: L 02334  
Primary Purpose: PRO 72-12-1 PROSPECTING OR DEVELOPMENT OF NATURAL RESOURCE  
Primary Status: PMT Permit  
Total Acres:  
Total Diversion: 3  
Owner: THOMPSON-CARR DRILLING CO.

Documents on File

| Doc   | File/Act   | Status      | 1 | 2     | 3 | Trans Desc | From/To | Acres | Diversion | Consumptive |
|-------|------------|-------------|---|-------|---|------------|---------|-------|-----------|-------------|
| 72121 | 09/11/1953 | PMT LOG ABS | L | 02334 |   |            | T       |       | 3         |             |

(qtr are 1=NW 2=NE 3=SW 4=SE)  
(qtr are biggest to smallest)  
Source Tws Rng Sec q q q  
Shallow 14S 37E 36 1 1  
Shallow 14S 37E 36 1 1

| Point of Diversion | UTM are in Meters | UTM Zone | Easting | Northing | Latitude   | Longitude  | Other Location Description |
|--------------------|-------------------|----------|---------|----------|------------|------------|----------------------------|
| POD Number         |                   |          |         |          |            |            |                            |
| L 02334            |                   | 13       | 671805  | 3659938  | 33 3 51.86 | 103 9 42.6 |                            |
| L 02334 APPRO      |                   | 13       | 671805  | 3659938  | 33 3 51.86 | 103 9 42.6 |                            |

New Mexico Office of the State Engineer  
Water Right Summary

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DB File Nbr: L 02473

Primary Purpose: PRO 72-12-1 PROSPECTING OR DEVELOPMENT OF NATURAL RESOURCE

Primary Status: PMT Permit

Total Acres:

Total Diversion: 3

Owner: FRISBIE & YANCEY DRILLING CO.

Documents on File

| Doc   | File/Act   | Status      | 1 | 2     | 3 | Trans Desc | From/To | Acres | Diversion | Consumptive |
|-------|------------|-------------|---|-------|---|------------|---------|-------|-----------|-------------|
| COWNE | 03/07/1955 | CHG PRC ABS | L | 02473 |   |            | T       |       |           | 3           |
| 72121 | 02/09/1954 | PMT LOG ABS | L | 02473 |   |            | T       |       |           | 3           |

(qtr are 1=NW 2=NE 3=SW 4=SE)

| Point of Diversion | Source  | 1/4s | 2/4s | 3/4s | 4/4s | Shallow | Deep | X | Y | UTM Zone | Easting | Northing | Latitude   | Longitude   | Other Location Description |
|--------------------|---------|------|------|------|------|---------|------|---|---|----------|---------|----------|------------|-------------|----------------------------|
| L 02473            | Shallow | 14S  | 37E  | 36   | 1    | 4       |      |   |   | 13       | 672215  | 3659542  | 33 3 38.75 | 103 9 27.06 |                            |
| L 02473 APPRO      | Shallow | 14S  | 37E  | 36   | 1    | 4       |      |   |   | 13       | 672215  | 3659542  | 33 3 38.75 | 103 9 27.06 |                            |

Owner: FRANK FRAWLEY DRILLING CO.

| Doc   | File/Act   | Status  | Trans Desc  | From/To | Acres | Diversion | Consumptive |
|-------|------------|---------|-------------|---------|-------|-----------|-------------|
|       |            | 1 2 3   |             |         |       |           |             |
| 72121 | 05/10/1954 | PMT LOG | ABS L 02531 | T       |       | 3         |             |

L 02531 APPRO

| Source  | Tws | Rng | Sec | q | q | q | Zone | X | Y | are in Feet |
|---------|-----|-----|-----|---|---|---|------|---|---|-------------|
| Shallow | 14S | 37E | 36  | 1 | 3 |   |      |   |   |             |
| Shallow | 14S | 37E | 36  | 1 | 3 |   |      |   |   |             |

UTM are in Meters)

| UTM_Zone | Fasting |
|----------|---------|
| 13       | 671813  |
| 13       | 671813  |

| Latitude | Longitude   | Other Location Description |
|----------|-------------|----------------------------|
| 3 38.8   | 103 9 42.57 | POPE #10                   |
| 3 38.8   | 103 9 42.57 |                            |

DB File Nbr: L 02763

Primary Purpose: PRO 72-12-1 PROSPECTING OR DEVELOPMENT OF NATURAL RESOURCE

Primary status: PMT Permit

**Total Acres:**

Total Diversion: 3

Owner: COROCO DRILLING CO.

**Back**

## Documents on File

| Doc   | File/Act   | Status  | 1   | 2 | 3 | Trans Desc | From/To | Acres | Diversion | Consumptive |
|-------|------------|---------|-----|---|---|------------|---------|-------|-----------|-------------|
| 72121 | 02/21/1955 | PMT LOG | ABS |   |   | L 02763    | T       |       |           | 3           |

(qtr are 1=NW 2=NE 3=SW 4=SE)

### Point of Diversion

| POD Number | Source |
|------------|--------|
| 1          | 1      |
| 2          | 2      |
| 3          | 3      |
| 4          | 4      |
| 5          | 5      |
| 6          | 6      |
| 7          | 7      |
| 8          | 8      |
| 9          | 9      |
| 10         | 10     |
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| 18         | 18     |
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| 98         | 98     |
| 99         | 99     |
| 100        | 100    |

L 02763

L 02763

**X Y are in Feet**

Zone

1  
2  
3  
4  
5

| Source | Tws | Rnd | Sec | $\alpha$ | $\alpha$ |
|--------|-----|-----|-----|----------|----------|
| 1      |     |     |     |          |          |

| Location | Depth | Temperature | Salinity |
|----------|-------|-------------|----------|
| Shallow  | 14S   | 37E         | 36       |
|          |       |             | 4 2      |

| Shallow | 14S | 37E | 36 | 4 | 2 |
|---------|-----|-----|----|---|---|
| Shallow | 14S | 37E | 36 | 4 | 2 |

UTM are in Meters)

五

1

UTM Zone Easting

13 673028

Nothing

3659151

Latitude

3 25.61

Londoni tudet

3 8 56.01

 Other Location Description |

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Back

DB File Nbr: L 02764

Primary Purpose: PRO 72-12-1 PROSPECTING OR DEVELOPMENT OF NATURAL RESOURCE

Primary Status: PMT Permit

Total Acres:

Total Diversion: 0

Owner: FRISBEE, YANCEY & MCKNIGHT DRI

Documents on File

| Doc   | File/Act   | Status      | 1 | 2     | 3 | Trans_Desc | From/To | Acres | Diversion | Consumptive |
|-------|------------|-------------|---|-------|---|------------|---------|-------|-----------|-------------|
| 72121 | 02/21/1955 | CAN FIN ABS | L | 02764 |   |            | T       |       |           | 3           |

(qtr are 1=NW 2=NE 3=SW 4=SE)

(qtr are biggest to smallest

Source

Tws Rng Sec q q q

14S 37E 36 2 2

X Y are in Feet

X

Zone

UTM are in Meters)

UTM\_Zone

Easting

673012

Northing

3659955

Latitude

33 3 51.72

Longitude

103 8 56.06

Other Location Description



New Mexico Office of the State Engineer  
Water Right Summary

Back

DB File Nbr: L 02953  
Primary Purpose: PRO 72-12-1 PROSPECTING OR DEVELOPMENT OF NATURAL RESOURCE  
Primary Status: PMT Permit  
Total Acres:  
Total Diversion: 3  
Owner: WESTLUND DRILLING CO.

Documents on File

| Doc   | File/Act   | Status      | 1 | 2     | 3 | Trans Desc | From/To | Acres | Diversion | Consumptive |
|-------|------------|-------------|---|-------|---|------------|---------|-------|-----------|-------------|
| 72121 | 08/11/1955 | PMT LOG ABS | L | 02953 |   |            | T       |       | 3         |             |

(qtr are 1=NW 2=NE 3=SW 4=SE)

| Point of Diversion | Source  | Tws | Rng | Sec | q | q | q | q | X | Y | UTM Zone | Easting | Northing | Latitude | Longitude | Other Location Description |
|--------------------|---------|-----|-----|-----|---|---|---|---|---|---|----------|---------|----------|----------|-----------|----------------------------|
| POD Number         | Shallow | 14S | 37E | 36  | 4 | 2 |   |   |   |   | 13       | 673028  | 3659151  | 33       | 3 25.61   | 103 8 56.01                |
| L 02953            | Shallow | 14S | 37E | 36  | 4 | 2 |   |   |   |   | 13       | 673028  | 3659151  | 33       | 3 25.61   | 103 8 56.01                |
| L 02953 APPRO      |         |     |     |     |   |   |   |   |   |   |          |         |          |          |           |                            |

DB File Nbr: L 04694  
Primary Purpose: DOM 72-12-1 DOMESTIC ONE HOUSEHOLD  
Primary Status: PMT Permit  
Total Acres:  
Total Diversion: 3  
Owner: SINCLAIR OIL & GAS COMPANY

Back

Documents on File

| Doc   | File/Act   | Status      | 1 | 2     | 3 | Trans | Desc | From/To | Acres | Diversion | Consumptive |
|-------|------------|-------------|---|-------|---|-------|------|---------|-------|-----------|-------------|
| 72121 | 08/11/1961 | PMT LOG ABS | L | 04694 |   |       |      | T       |       | 3.        |             |

(qtr are 1=NW 2=NE 3=SW 4=SE)

| Point of Diversion | Source  | Tws | Rng | Sec | q | q | q | X | Y | UTM Zone | Easting | Northing | Latitude   | Longitude   | Other Location Description |
|--------------------|---------|-----|-----|-----|---|---|---|---|---|----------|---------|----------|------------|-------------|----------------------------|
| POD Number         | Shallow | 14S | 37E | 36  | 1 | 4 | 3 |   |   | 13       | 672114  | 3659441  | 33 3 38.75 | 103 9 27.06 |                            |
| L 04694            | Shallow | 14S | 37E | 36  | 1 | 4 | 3 |   |   | 13       | 672114  | 3659441  | 33 3 38.75 | 103 9 27.06 |                            |
| L 04694 APPRO      |         |     |     |     |   |   |   |   |   |          |         |          |            |             |                            |

Back

DB File Nbr: L 06236  
Primary Purpose: DOM 72-12-1 DOMESTIC ONE HOUSEHOLD  
Primary Status: EXP Expired  
Total Acres:  
Total Diversion:  
Owner: CLARENCE L. PAPE

Documents on File

| Doc   | File/Act   | Status | 1   | 2   | 3   | Trans_Desc | From/To | Acres | Diversion | Consumptive |
|-------|------------|--------|-----|-----|-----|------------|---------|-------|-----------|-------------|
| 72121 | 12/07/1967 | EXP    | EXP | EXP | EXP | CONVERSION | L 062 T |       |           |             |

(qtr are 1=NW 2=NE 3=SW 4=SE)  
(qtr are biggest to smallest)  
Source      Tws      Rng      Sec      q      q      q      Zone      X      Y      UTM Zone      Easting      Northing      33      3      12.78      103      10      13.59  
L 06236 EXP      14S      37E      35      4

Point of Diversion  
POD Number  
L 06236 EXP

UTM are in Meters)

X Y are in Feet

UTM are in Meters)

UTM are in Meters)

UTM are in Meters)

UTM are in Meters)

UTM are in Meters)

New Mexico Office of the State Engineer  
Water Right Summary

Back

DB File Nbr: L 06263  
Primary Purpose: DOM 72-12-1 DOMESTIC ONE HOUSEHOLD  
Primary Status: PMT Permit  
Total Acres:  
Total Diversion: 3  
Owner: B. H. POPE

Documents on File

| Doc   | File/Act   | Status      | 1          | 2 | 3   | Trans_Desc | From/To | Acres | Diversion | Consumptive |
|-------|------------|-------------|------------|---|-----|------------|---------|-------|-----------|-------------|
| 72121 | 01/26/1968 | PMT APR CNV | CONVERSION | L | 062 | T          |         |       |           | 3           |

Point of Diversion  
POD Number  
L 06263

(qtr are 1=NW 2=NE 3=SW 4=SE)  
(qtr are biggest to smallest  
Source Tws Rng Sec q q q  
Shallow 14S 37E 36 4 1 3

UTM are in Meters)  
UTM Zone Easting Northing Latitude Longitude Other Location Description  
13 672525 3659044 33 3 25.65 103 9 11.52

**APPENDIX C**  
**SOIL BORING LOGS**

# Soil Boring SB-1

**Legend**  
 PID Head-space reading in ppm obtained with a photo-ionization detector.  
 All PID readings were analyzed.

○ Indicates samples selected for laboratory analysis.

| Depth (feet) | Soil Columns | PID Reading | Petroleum Odor | Petroleum Stain | Soil Description                                                       |
|--------------|--------------|-------------|----------------|-----------------|------------------------------------------------------------------------|
| 0            |              |             |                |                 |                                                                        |
| 5            |              | 0.0         | None           | None            | Sand - (SP) - Red tan, very fine grained, well sorted, caliche nodules |
| 10           |              | 0.0         | None           | None            |                                                                        |
| 15           |              | 0.0         | None           | None            | Sand - (SP) - Tan, very fine grained, well sorted, caliche nodules     |
| 20           |              | 0.0         | None           | None            | Sand - (SP) - Red tan, very fine grained, well sorted, caliche nodules |
| 25           |              | 0.0         | None           | None            | Sand - (SP) - Tan, very fine grained, well sorted, sandstone nodules   |
| 30           |              | 0.0         | None           | None            |                                                                        |
| 35           |              | 0.0         | None           | None            | Sand - (SP) - Red tan, very fine grained, well sorted, caliche nodules |
| 40           |              | 0.0         | None           | None            |                                                                        |
| 45           |              | 0.0         | None           | None            | Sand - (SP) - Red, very fine grained, well sorted                      |
| 50           |              | 0.6         | None           | None            | Sand - (SP) - Red tan, very fine grained, well sorted, caliche nodules |
| 55           |              | 1.3         | None           | None            |                                                                        |
| 60           |              | 0.0         | None           | None            | Sand - (SP) - Red, very fine grained, well sorted, sandstone nodules   |
| 65           |              |             |                |                 |                                                                        |
| 70           |              |             |                |                 |                                                                        |

## Soil Boring Details

Date Drilled 07/03/00  
 Plugged - Surface to TD with Bentonite and hydrated with deionized water.

## Soil Boring Log Details

### Soil Boring SB-1

EOTT Energy Corp. Darr Angell #3 / #4 Lea County, NM



Environmental Technology Group, Inc.

Soils NTB Prep By: RS Checked By: JN  
 July 3, 2000 ETGI Project # EOT 2079C

# Soil Boring SB-2

## Legend

PID Head-space reading in ppm obtained with a photo-ionization detector.  
○ Indicates samples selected for laboratory analysis.

| Depth (feet) | Soil Columns | PID Reading | Petroleum Odor | Petroleum Stain | Soil Description                                                                |
|--------------|--------------|-------------|----------------|-----------------|---------------------------------------------------------------------------------|
| 0            |              | 33.2        | None           | None            |                                                                                 |
| 5            |              | 17.4        | None           | None            | Sand - (SM) - Dark brown, very fine grained, well sorted, dry, caliche nodules. |
| 10           |              | 25.3        | None           | None            |                                                                                 |
| 15           |              | 19.1        | None           | None            |                                                                                 |
| 20           |              | 21.0        | None           | None            | Sand - (SP) - Red tan, very fine grained, well sorted, caliche nodules.         |
| 25           |              | 24.5        | None           | None            |                                                                                 |
| 30           |              | 19.8        | None           | None            |                                                                                 |
| 35           |              | 19.1        | None           | None            | Sand - (SP) - Tan, very fine grained, well sorted, caliche nodules.             |
| 40           |              | 23.2        | None           | None            |                                                                                 |
| 45           |              | 39.0        | None           | None            |                                                                                 |
| 50           |              | 20.3        | None           | None            | Sand - (SP) - Red, very fine grained, well sorted, wet, sandstone nodules.      |
| 55           |              | 19.5        | moderate       | None            |                                                                                 |
| 60           |              | 342         | Heavy          | None            |                                                                                 |
| 65           |              | 6.2         | Slight         | Yellow          | Sand - (SP) - Red, very fine grained, well sorted, caliche nodules.             |
| 70           |              | 6.5         | Slight         | None            |                                                                                 |

## Soil Boring Details

Date Drilled 07 / 05 / 00  
Plugged - Surface to TD with Bentonite and hydrated with deionized water.

## Soil Boring Log Details

### Soil Boring SB-2

EOTT Energy Corp. Darr Angell #3 / #4 Lea County, NM



Environmental Technology Group, Inc.

Soils: NTS  
July 5, 2000  
Prep By: MS  
Checked By: JH  
ETGI Project # EOT 207NC



# Soil Boring SB-3

## Legend

PID Head-space reading in ppm obtained with a photo-ionization detector. All PID readings were analyzed.

○ indicates samples selected for laboratory analysis.

| Depth (feet) | Soil Columns                                                                         | PID Reading | Petroleum Odor | Petroleum Stain | Soil Description                                                           |
|--------------|--------------------------------------------------------------------------------------|-------------|----------------|-----------------|----------------------------------------------------------------------------|
| 0            |  | 0.0         | None           | None            | Sand - (SP) - Dark brown, very fine grained, well sorted, caliche nodules. |
| 5            |                                                                                      | 0.0         | None           | None            | Sand - (SP) - Tan, very fine grained, well sorted, caliche nodules.        |
| 10           |                                                                                      | 0.0         | None           | None            | Sand - (SP) - Red tan, very fine grained, well sorted, caliche nodules.    |
| 15           |                                                                                      | 3.0         | None           | None            | Sand - (SP) - Red, very fine grained, well sorted, caliche nodules.        |
| 20           |                                                                                      | 13.6        | None           | None            | Sand - (SP) - Red tan, very fine grained, well sorted.                     |
| 25           |                                                                                      | 13.2        | None           | None            |                                                                            |
| 30           |                                                                                      | 13.7        | None           | None            | Sand - (SP) - Red, very fine grained, well sorted, caliche nodules.        |
| 35           |                                                                                      | 11.8        | None           | None            |                                                                            |
| 40           |                                                                                      | 14.4        | None           | None            | Sand - (SP) - Red tan, very fine grained, well sorted.                     |
| 45           |                                                                                      | 13.3        | None           | None            |                                                                            |
| 50           |                                                                                      | 11.0        | None           | None            | Sand - (SP) - Red, very fine grained, well sorted.                         |
| 55           |                                                                                      | 11.7        | None           | None            | Sand - (SP) - Red, very fine grained, well sorted, caliche nodules.        |
| 60           |                                                                                      | 11.6        | None           | None            |                                                                            |
| 65           |                                                                                      |             |                |                 |                                                                            |
| 70           |                                                                                      |             |                |                 |                                                                            |

## Soil Boring Details

Date Drilled: 07 / 06 / 00

Plugged - Surface to TD with Bentonite and hydrated with deionized water.

## Soil Boring Log Details

### Soil Boring SB-3

EOTT Energy Corp. Darr Angell #3 / #4 Lea County, NM

Environmental Technology Group, Inc.



Scale: NTS  
Prep By: RLS  
Checked By: JH  
Date: July 8, 2000  
ETGI Project # EOT 2075C



# Soil Boring SB-4

## Legend

- PID Head-space reading in ppm obtained with a photo-ionization detector.  
 ○ Indicates samples selected for laboratory analysis.

| Depth (feet) | Soil Columns | PID Reading | Petroleum Odor | Petroleum Stain | Soil Description                                                               |
|--------------|--------------|-------------|----------------|-----------------|--------------------------------------------------------------------------------|
| 0            |              | 9.5         | None           | None            | Sand - (SM) - Brown tan, very fine grained, well sorted, dry, caliche nodules. |
| 5            |              | 11.9        | None           | None            | Sand - (SP) - Tan, very fine grained, well sorted, caliche nodules.            |
| 10           |              | 12.4        | None           | None            |                                                                                |
| 15           |              | 11.8        | None           | None            |                                                                                |
| 20           |              | 11.4        | None           | None            | Sand - (SP) - Red tan, very fine grained, well sorted, caliche nodules.        |
| 25           |              | 11.1        | None           | None            |                                                                                |
| 30           |              | 4.3         | None           | None            |                                                                                |
| 35           |              | 5.1         | None           | None            | Sand - (SP) - Red tan, very fine grained, well sorted, sandstone nodules.      |
| 40           |              | 8.0         | Slight         | None            |                                                                                |
| 45           |              | 11.3        | Slight         | None            | Sand - (SP) - Red tan, very fine grained, well sorted, sandstone nodules.      |
| 50           |              | 12.2        | Slight         | None            |                                                                                |
| 55           |              | 6.2         | Slight         | None            | Sand - (SP) - Red, very fine grained, well sorted.                             |
| 60           |              | 3.7         | Heavy          | None            | Sand - (SP) - Red, very fine grained, well sorted, caliche nodules.            |
| 65           |              |             |                |                 |                                                                                |
| 70           |              |             |                |                 |                                                                                |

## Soil Boring Details

Date Drilled 07 / 05 / 00  
 Plugged - Surface to TD with Bentonite and hydrated with deionized water.

## Soil Boring Log Details

### Soil Boring SB-4

EOTT Energy Corp. Darr Angell #3 / #4 Lea County, NM



Environmental Technology Group, Inc.

Scale NTS  
 July 8, 2000  
 Prep By: RS  
 Checked By: JH  
 ETGI Project # EOT 2075C

# Soil Boring SB-5

## Legend

- PID Head-space reading in ppm obtained with a photo-ionization detector.  
All PID readings were analyzed.
- Indicates samples selected for laboratory analysis.

| Depth (feet) | Soil Columns | PID Reading | Petroleum Odor | Petroleum Stain | Soil Description                                                           |
|--------------|--------------|-------------|----------------|-----------------|----------------------------------------------------------------------------|
| 0            |              | 0.8         | None           | None            | Sand - (SP) - Dark brown, very fine grained, well sorted, caliche nodules. |
| 5            |              | 7.0         | None           | None            | Sand - (SP) - Tan, very fine grained, well sorted, caliche nodules.        |
| 10           |              | 9.5         | None           | None            |                                                                            |
| 15           |              | 10.0        | None           | None            | Sand - (SP) - Red, very fine grained, well sorted, caliche nodules.        |
| 20           |              | 10.8        | None           | None            |                                                                            |
| 25           |              | 11.6        | None           | None            |                                                                            |
| 30           |              | 11.2        | None           | None            | Sand - (SP) - Tan, very fine grained, well sorted, caliche nodules.        |
| 35           |              | 10.3        | None           | None            |                                                                            |
| 40           |              | 9.8         | None           | None            | Sand - (SP) - Red tan, very fine grained, well sorted.                     |
| 45           |              | 10.2        | None           | None            |                                                                            |
| 50           |              | 2.9         | None           | None            | Sand - (SP) - Red tan, very fine grained, well sorted.                     |
| 55           |              | 3.2         | None           | None            | Sand - (SP) - Red, very fine grained, well sorted.                         |
| 60           |              | 6.2         | None           | None            |                                                                            |
| 65           |              |             |                |                 |                                                                            |
| 70           |              |             |                |                 |                                                                            |

## Soil Boring Details

Date Drilled 07 / 07 / 00

Plugged - Surface to TD with Bentonite and hydrated with dechlorinated water.

## Soil Boring Log Details

### Soil Boring SB-5

EOTT Energy Corp. Darr Angell #3 / #4 Lea County, NM



Environmental Technology Group, Inc.

Scale: NTS  
July 7, 2000  
Prep By: RS  
Checked By: JN  
ETGI Project # EOT 2075C

# Soil Boring SB-6

## Legend

PID Head-space reading in ppm obtained with a photo-ionization detector. All PID readings were analyzed.

○ Indicates samples selected for laboratory analysis.

| Depth (feet) | Soil Columns | PID Reading | Petroleum Odor | Petroleum Stain | Soil Description                                                        |
|--------------|--------------|-------------|----------------|-----------------|-------------------------------------------------------------------------|
| 0            |              | 7.6         | None           | None            | Sand - (SM) - Dark tan, very fine grained, well sorted, caliche nodules |
| 5            |              | 8.6         | None           | None            |                                                                         |
| 10           |              | 6.6         | None           | None            |                                                                         |
| 15           |              | 8.5         | None           | None            |                                                                         |
| 20           |              | 10.2        | None           | None            | Sand - (SP) - Tan, very fine grained, well sorted, caliche nodules      |
| 25           |              | 7.2         | None           | None            |                                                                         |
| 30           |              | 5.8         | None           | None            |                                                                         |
| 35           |              | 3.7         | None           | None            |                                                                         |
| 40           |              | 6.8         | None           | None            | Sand - (SP) - Tan, very fine grained, well sorted, sandstone nodules    |
| 45           |              | 4.8         | None           | None            |                                                                         |
| 50           |              | 8.0         | None           | None            |                                                                         |
| 55           |              | 7.1         | None           | None            |                                                                         |
| 60           |              | 7.2         | Slight         | None            | Sand - (SP) - Red, very fine grained, well sorted.                      |
| 65           |              |             |                |                 |                                                                         |
| 70           |              |             |                |                 |                                                                         |

## Soil Boring Details

Date Drilled 07 / 07 / 00  
Plugged - Surface to TD with Bentonite and hydrated with deionized water.

## Soil Boring Log Details

### Soil Boring SB-6

EOTT Energy Corp. Darr Angell #3 / #4 Lea County, NM



Environmental Technology Group, Inc.

State NTS Prep By: H6 Checked By: JH  
July 7, 2000 ETGI Project # EOT 2075C



# Soil Boring SB-7

## Legend

- PID Head-space reading in ppm obtained with a photo-ionization detector.  
 ○ Indicates samples selected for laboratory analysis.  
 ▼ Indicates the groundwater level measured on date.

| Depth (feet) | Soil Columns | PID Reading | Petroleum Odor | Petroleum Stain | Soil Description                                                          |
|--------------|--------------|-------------|----------------|-----------------|---------------------------------------------------------------------------|
| 0            |              | (3.5)       | None           | None            | Sand - (SM) - Brown tan, very fine grained, well sorted, caliche nodules. |
| 5            |              | (2.9)       | None           | None            |                                                                           |
| 10           |              | (4.2)       | None           | None            | Sand - (SM) - Tan, very fine grained, well sorted, caliche nodules.       |
| 15           |              | (3.4)       | None           | None            |                                                                           |
| 20           |              | (11.5)      | None           | None            | Sand - (SC) - Red tan, very fine grained, well sorted, caliche nodules.   |
| 25           |              | (9.6)       | None           | None            | Sandstone layer                                                           |
| 30           |              | (8.4)       | None           | None            |                                                                           |
| 35           |              | (6.9)       | None           | None            | Sand - (SP) - Red tan, very fine grained, well sorted, sandstone nodules. |
| 40           |              | (6.3)       | None           | None            |                                                                           |
| 45           |              | (5.2)       | None           | None            | Sand - (SP) - Red, very fine grained, well sorted, caliche nodules.       |
| 50           |              | (1.2)       | None           | None            |                                                                           |
| 55           |              | (2.0)       | none           | None            | Sand - (SP) - Red, very fine grained, well sorted, caliche nodules.       |
| 60           |              | (156)       | moderate       | None            |                                                                           |
| 65           |              | (9.7)       | slight         | None            |                                                                           |
| 70           |              |             |                |                 |                                                                           |

## Soil Boring Details

Date Drilled: 07 / 07 / 00

Plugged - Surface to TD with Bentonite and hydrated with deionized water.

## Soil Boring Log Details

### Soil Boring SB-7

EOTT Energy Corp. Darr Angell #3 / #4 Lea County, NM



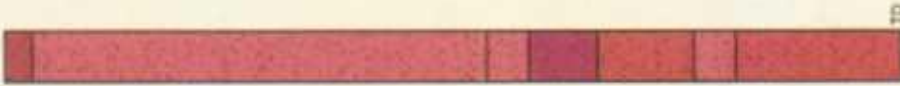
Environmental Technology Group, Inc.

Scale: NTS  
 Date: 7/7/2000  
 Prep By: MS  
 Checked By: JN  
 ETOI Project # EOT 2079C

# Soil Boring SB-8

## Legend

- PID Head-space reading in ppm obtained with a photo-ionization detector.  
 ○ Indicates samples selected for laboratory analysis.

| Depth (feet) | Soil Columns                                                                         | PID Reading | Petroleum Odor | Petroleum Stain | Soil Description                                                            |
|--------------|--------------------------------------------------------------------------------------|-------------|----------------|-----------------|-----------------------------------------------------------------------------|
| 0            |  | 0.0         | None           | None            | Sand - (SM) - Dark brown, very fine grained, well sorted, caliche nodules.  |
| 5            |                                                                                      | 0.0         | None           | None            |                                                                             |
| 10           |                                                                                      | 0.0         | None           | None            |                                                                             |
| 15           |                                                                                      | 0.0         | None           | None            |                                                                             |
| 20           |                                                                                      | 0.0         | None           | None            | Sand - (SM) - Tan, very fine grained, well sorted, caliche nodules.         |
| 25           |                                                                                      | 0.0         | None           | None            |                                                                             |
| 30           |                                                                                      | 0.0         | None           | None            |                                                                             |
| 35           |                                                                                      | 0.0         | Slight         | Slight          | Sand - (SM) - Tan, very fine grained, well sorted, caliche nodules.         |
| 40           |                                                                                      | 0.0         | None           | None            | Sand - (SC) - Red brown, very fine grained, well sorted, sandstone nodules. |
| 45           |                                                                                      | 0.0         | None           | None            | Sand - (SM) - Brown tan, very fine grained, well sorted, caliche nodules.   |
| 50           |                                                                                      | 0.0         | None           | None            | Sand - (SP) - Red, very fine grained, well sorted, sandstone nodules.       |
| 55           |                                                                                      | 0.0         | None           | None            |                                                                             |
| 60           |                                                                                      | 15.3        | None           | None            | Sand - (SP) - Red, very fine grained, well sorted, caliche nodules.         |
| 65           |                                                                                      | 5.9         | None           | None            |                                                                             |
| 70           |                                                                                      |             |                |                 |                                                                             |

## Soil Boring Details

Date Drilled: 07 / 11 / 00  
 Plugged - Surface to TD with Bentonite and Hydrated with deionized water

## Soil Boring Log Details

### Soil Boring SB-8

EOTT Energy Corp. Darr Angell #3 / #4 Lea County, NM



Environmental Technology Group, Inc.

Scale: NTS  
 July 11, 2000  
 Prep By: JIS  
 Checked By: JH  
 ETO: Project # EOT 2019C

# Soil Boring SB-9

## Legend

PID Head-space reading in ppm obtained with a photo-ionization detector.  
 ○ Indicates samples selected for laboratory analysis.

| Depth (feet) | Soil Columns                                                                         | PID Reading | Petroleum Odor | Petroleum Stain | Soil Description                                                            |
|--------------|--------------------------------------------------------------------------------------|-------------|----------------|-----------------|-----------------------------------------------------------------------------|
| 0            |  | 10.7        | None           | None            | Sand - (SM) - Brown tan, very fine grained, well sorted, caliche nodules.   |
| 5            |                                                                                      | 10.3        | None           | None            |                                                                             |
| 10           |                                                                                      | 10.9        | None           | None            | Sand - (SP) - Tan, very fine grained, well sorted, caliche nodules.         |
| 15           |                                                                                      | 10.3        | None           | None            |                                                                             |
| 20           |                                                                                      | 9.3         | None           | None            | Sand - (SM) - Brown tan, very fine grained, well sorted, caliche nodules.   |
| 25           |                                                                                      | 9.8         | None           | None            | Sand - (SP) - Red tan, very fine grained, well sorted, caliche nodules.     |
| 30           |                                                                                      | 10.1        | None           | None            | Sand - (SP) - Red tan, very fine grained, well sorted.                      |
| 35           |                                                                                      | 11.1        | None           | None            |                                                                             |
| 40           |                                                                                      | 10.8        | None           | None            | Sand - (SP) - Red brown, very fine grained, well sorted.                    |
| 45           |                                                                                      | 11.1        | None           | None            | Sand - (SM) - Red brown, very fine grained, well sorted, sandstone nodules. |
| 50           |                                                                                      | 22.9        | Slight         | None            |                                                                             |
| 55           |                                                                                      | 26.1        | None           | None            | Sand - (SP) - Red brown, very fine grained, well sorted.                    |
| 60           |                                                                                      | 29.7        | None           | None            |                                                                             |
| 65           |                                                                                      |             |                |                 |                                                                             |
| 70           |                                                                                      |             |                |                 |                                                                             |

## Soil Boring Details

Date Drilled: 07/14/00  
 Plugged - Surface to TD with Bentonite and hydrated with deionized water.

## Soil Boring Log Details

### Soil Boring SB-9

EOTT Energy Corp. Darr Angell #3 / #4 Lea County, NM



Environmental Technology Group, Inc.

Scale: NTS  
 Prepped By: MS  
 Checked By: JN  
 Date: July 14, 2000  
 ETGI Project # EOT 2079C



## Soil Boring SB-10

### Legend

Head-space reading in ppm obtained with a photo-ionization detector.

| Depth<br>(feet) | Soil<br>Columns | PID<br>Reading | Petroleum<br>Odor | Petroleum<br>Stain | Soil Description                                                                                                        |
|-----------------|-----------------|----------------|-------------------|--------------------|-------------------------------------------------------------------------------------------------------------------------|
| 0               |                 | 5.8            | None              | None               | Shale - Dark gray, moderately rounded, hard sorted, caliche nodules.<br>Caliche - (SP) - Very pale orange, well sorted. |
| 5               |                 | 5.3            | None              | None               |                                                                                                                         |
| 10              |                 | 6.2            | None              | None               | Sand - (SM) - Very pale orange, very fine grained, moderately sorted, imbedded caliche nodules.                         |
| 15              |                 | 4.2            | None              | None               |                                                                                                                         |
| 20              |                 | 3.6            | None              | None               | Sandstone- (SM) - Very pale to grayish orange, compacted, hard                                                          |
| 25              |                 | 4.7            | None              | None               | Caliche - (SP) - White, firm, hard.                                                                                     |
| 30              |                 | 3.8            | None              | None               | Sandstone- (SP) - Very pale to grayish orange, well sorted.                                                             |
| 35              |                 | 5.6            | None              | None               | Sand - (SP) - Light brown, very fine grained, sub-rounded, well sorted, slightly damp                                   |
| 40              |                 | 5.7            | None              | None               | Sand - (SM) - Grayish orange, very fine grained, well sorted, sub-rounded.                                              |
| 45              |                 | 4.6            | Slight            | None               |                                                                                                                         |
| 50              |                 | 4.7            | None              | None               | Sand - (SP) - Light brown, very fine grained, well sorted, sub-rounded, slightly damp.                                  |
| 55              |                 | 3.9            | None              | None               |                                                                                                                         |
| 60              |                 | 4.0            | None              | None               |                                                                                                                         |
| 65              |                 |                |                   |                    |                                                                                                                         |
| 70              |                 |                |                   |                    |                                                                                                                         |

## Soil Boring Details

Date Drilled 05 / 10 / 02  
Plugged - Surface to TD with Bentonite  
and hydrated with deionized  
water

Environmental Technology  
Group, Inc.

|               |                          |                |
|---------------|--------------------------|----------------|
| Scale: NTS    | Prep By: RJS             | Checked By: JN |
| Sept 17, 2002 | ETGI Project # EOT 2075C |                |

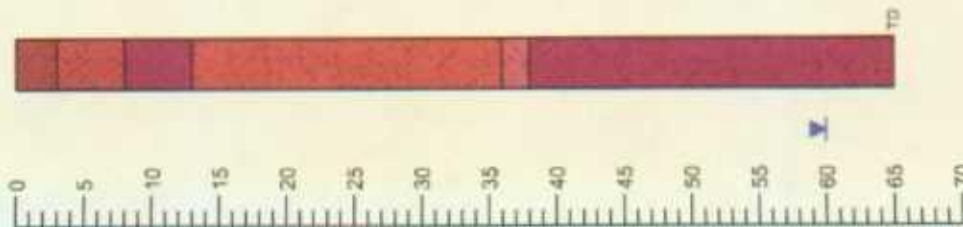
Soil Boring Log Details

Soil Boring SB-10

EOTT Energy Corp. Darr Angell #3 / #4 Lea County, NM

# Monitoring Well MW - 1

Depth (feet)



Soil Columns



Notes

PTD Reading: 4.8, 12.2, 12.8, 12.4, 12.4, 13.1, 12.3, 10.8, 11.9, 12.8, 14.3, 13.3, 12.9

Well

## Legend



Sand - (SP1) - Dark brown, very fine grained, well sorted, no stain, no odor, calcite nodules.  
 Sand - (SP1) - Brown tan, very fine grained, well sorted, no stain, no odor, calcite nodules.  
 Sand - (SP1) - Red brown, very fine grained, well sorted, no stain, no odor, calcite nodules.  
 Sand - (SP1) - Red tan, very fine grained, well sorted, no stain, no odor, calcite nodules.  
 Sand - (SP1) - Tan, very fine grained, well sorted, no stain, no odor, calcite nodules.



Indicates samples selected for laboratory analysis.



Indicates the PDS level measured on date.



Indicates the ground water level measured on date.



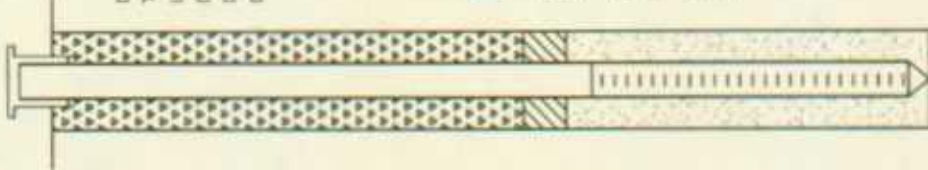
PTD Head space reading in ppm obtained with a photo-luminescence detector.

## Completion Notes

- The monitoring well was installed on date using air rotary drilling techniques.
- The well was constructed with 2" ID, 0.020 iron factory socketed, threaded joint, schedule 40 PVC pipe.
- The well is protected with a locked stick up steel cover and a compression cap.
- The lines between material types shown on the profile log represent approximate boundaries. Actual transitions may be gradual.
- The depths indicated are referenced from the ground surface.

## Monitoring Well Details

Date Drilled: 07-13-00  
 Thickness of Bentonite Seal: 2 ft  
 Length of PVC Well Screen: 25 ft  
 Depth of PVC Well: 65 ft  
 Depth of Expiratory Well: 65 ft  
 Depth to Ground Water: 60 ft



## Boring Log And Monitoring Well Details

### Monitoring Well - 1

EOTT Energy Corp. Darr Angell #3 / #4 Lea County, NM

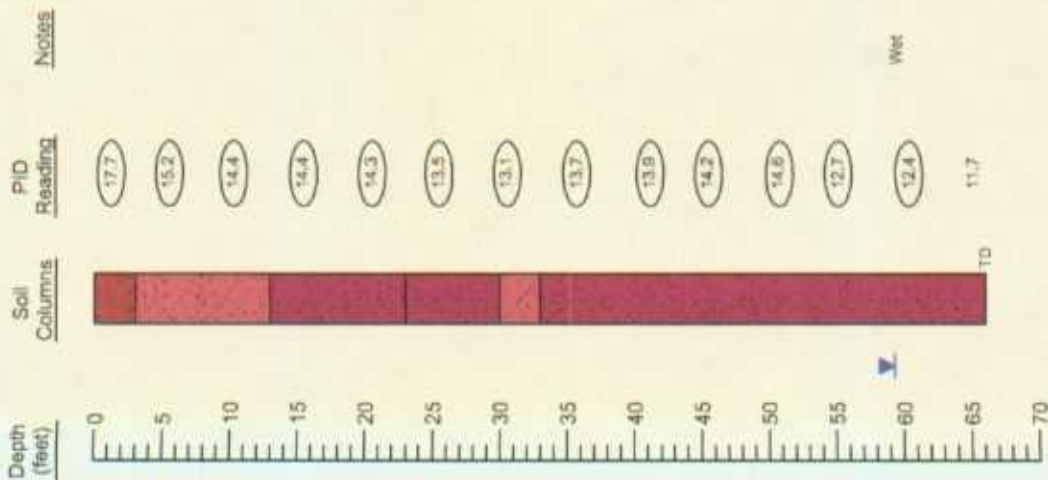
Environmental Technology Group, Inc.



State use only Prep By: NS Checked By: JT  
 July 13, 2000 EOTT Project # EOTT 2000C



# Monitoring Well MW - 2



## Legend

- Sand - (SP) - Dark brown, very fine grained, well sorted, no stain, no odor, caliche nodules.
- Sand - (SP) - Tan, very fine grained, well sorted, no stain, no odor, caliche nodules.
- Sand - (SP) - Red brown, very fine grained, well sorted, no stain, no odor, caliche nodules.

Indicates samples selected for laboratory analysis.

Indicates the PSI level measured on data.

Indicates the ground water level measured on data.

PID Head-space reading in ppm obtained with a photo-ionization detector.

## Completion Notes

- The monitoring well was installed on date using air rotary drilling techniques.
- The well was constructed with 2" ID, 0.020 inch factory slot, threaded joint, schedule 40 PVC pipe.
- The well is protected with a locked stick up steel cover and a compression cap.
- The lines between material types shown on the profile log represent approximate boundaries. Actual transitions may be gradual.
- The depths indicated are referenced from the ground surface.

## Monitoring Well Details

Date Drilled: 07 - 14 - 00  
 Thickness of Bentonite Seal: 2 ft  
 Length of PVC Well Screen: 25 ft  
 Depth of PVC Well: 66 ft  
 Depth of Exploratory Well: 66 ft  
 Depth to Ground Water: 59.5 ft

- Grout Surface Seal
- Bentonite Pellet Seal
- Sand Pack
- Screen

## Boring Log And Monitoring Well Details

### Monitoring Well - 2

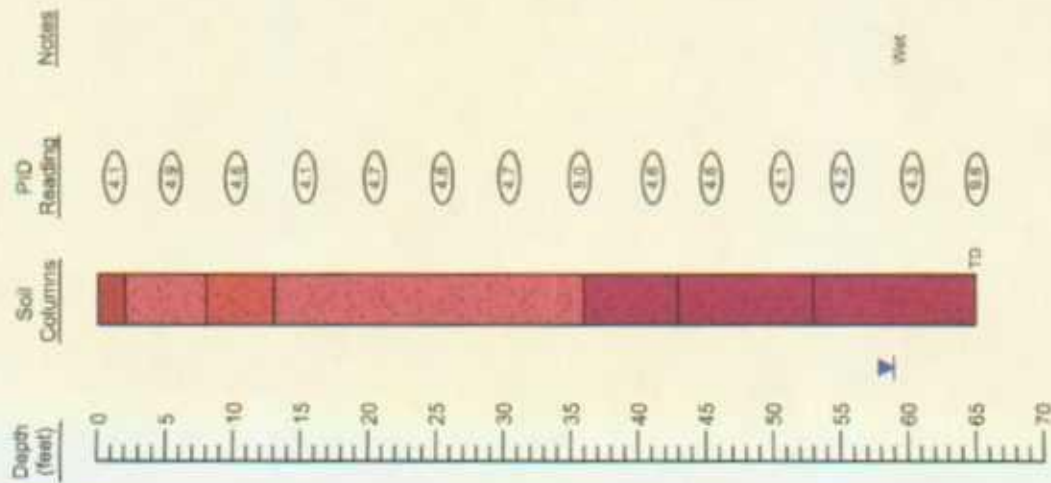
EOTT Energy Corp. Darr Angell #3 / #4 Lea County, NM



Environmental Technology Group, Inc.

|                     |             |                          |
|---------------------|-------------|--------------------------|
| Scale: use scale    | Prep By: NS | Checked By: JT           |
| Date: July 14, 2000 |             |                          |
|                     |             | ETGI Project # EOT 2075C |

# Monitoring Well MW - 3



## Legend

- Sand - (SP) - Dark brown, very fine grained, well sorted, no stain, no odor, calciche nodules.
- Sand - (SP) - Tan, very fine grained, well sorted, no stain, no odor, calciche nodules.
- Sand - (SP) - Red brown, very fine grained, well sorted, no stain, no odor, calciche nodules.
- Sand - (SP) - Red tan, very fine grained, well sorted, no stain, no odor, calciche nodules.

Indicates samples selected for laboratory analysis.

Indicates the P10 level measured on date.

Indicates the ground water level measured on date.

P10 Head-space reading in ppm obtained with a photo-ionization detector.

## Completion Notes

- The monitoring well was installed on date using air rotary drilling techniques.
- The well was constructed with 2" ID, 0.020 inch factory slot, breached joint, schedule 40 PVC pipe.
- The well is protected with a locked stock up steel cover and a compression cap.
- The lines between material types shown on the profile log represent approximate boundaries. Actual transitions may be gradual.
- The depths indicated are referenced from the ground surface.

## Boring Log And Monitoring Well Details

### Monitoring Well - 3

EOTT Energy Corp. Darr Angell #3 / #4 Lea County, NM

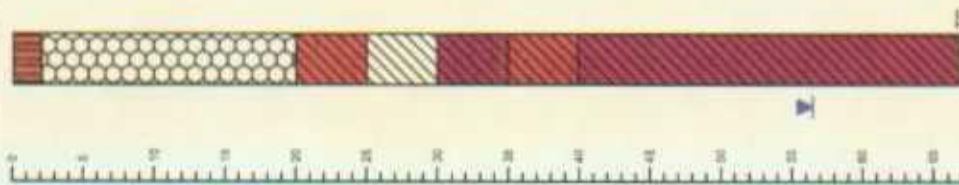


Environmental Technology Group, Inc.

|                           |                          |                 |
|---------------------------|--------------------------|-----------------|
| Scale: one inch = 10 feet | Prepared By: JTG         | Checked By: JTG |
| July 17, 2000             | E100 Project # EOT 2019C |                 |

# Monitor Well MW-4

Depth (feet) \_\_\_\_\_



## Soil Description

Sand (SP) - Brown, Very Fine Grained, Well Sorted.

Caliche Layer

Sand (SP) - Red to Tan, Very Fine Grained, Well Sorted with Sandstone Nodules.

Sandstone Layer

Sand (SP) - Red to Brown, Very Fine Grained, Well Sorted with Sandstone Nodules.

Sand (SP) - Red to Brown, Very Fine Grained, Well Sorted with Abundant Sandstone Nodules.

Sand (SP) - Red to Brown, Very Fine Grained, Well Sorted.

## Monitor Well Details

Date Drilled: 7-18-01  
 Thickness of Bentonite Seal: 2 ft  
 Length of PVC Well Screen: 20 ft  
 Depth of PVC Well: 67 ft  
 Depth of Exploratory Well: 67 ft  
 Depth to Groundwater: 56.5 ft



- Indicates the groundwater level measured on date.
- Indicates samples selected for Laboratory Analysis.
- PID Head-space reading in ppm obtained with a photo-ionization detector.

## Completion Notes

- The monitor well was installed on date using air rotary drilling techniques.
- The well was constructed with 4" ID, 0.020 inch factory slot, threaded joint, schedule 40 PVC pipe.
- The well is protected with a locked stick up steel cover and a compression cap.
- The lines between material types shown on the profile log represent approximate boundaries. Actual transitions may be gradual.
- The depths indicated are referenced from the ground surface.

Boring Log And Monitoring Well Details

Monitor Well MW-4

EOTT Energy Corp. Darr Angell #3 / #4 Lea County, NM

Environmental Technology Group, Inc.

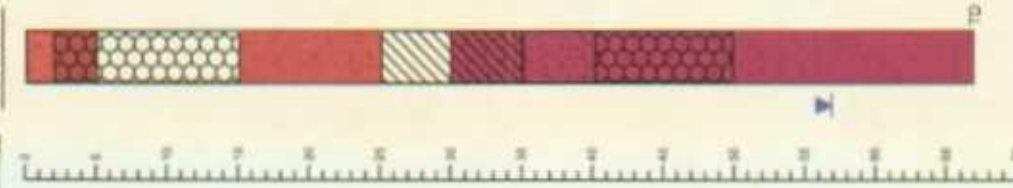


Prep By: JDU  
 May 1, 2002  
 Checked By: CH  
 ETTG Project # E00075



# Monitor Well MW-5

Depth (feet)



PID Reading

0.0  
0.0  
0.0  
0.0  
0.0  
0.0  
0.0  
0.0  
0.0  
0.0  
0.0  
0.0  
0.0  
0.0  
0.0

Petroleum Odor

None  
None  
None  
None  
None  
None  
None  
None  
None  
None  
None  
None  
None  
None  
None

Petroleum Stain

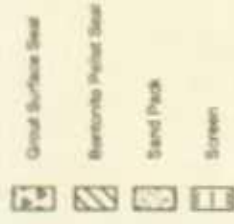
None  
None  
None  
None  
None  
None  
None  
None  
None  
None  
None  
None  
None  
None  
None

## Soil Description

Sand (SP) - Red to Tan, Very Fine Grained, Well Sorted.  
Sand (SP) - Red to Tan, Very Fine Grained, Well Sorted with Abundant Calcite Nodules.  
Calciche Layer  
Sand (SP) - Tan, Very Fine Grained, Well Sorted with Calcite Nodules.  
Sandstone Layer  
Sand (SP) - Red to Brown, Very Fine Grained, Well Sorted with Sandstone Nodules.  
Sand (SP) - Red to Brown, Very Fine Grained, Well Sorted.  
Sand (SP) - Red to Brown, Very Fine Grained, Well Sorted with Calcite Nodules.  
Sand (SP) - Red to Brown, Very Fine Grained, Well Sorted.  
Sand (SP) - Red to Brown, Very Fine Grained, Well Sorted.

## Monitor Well Details

Date Drilled 7-20-01  
Thickness of Bentonite Seal 3.5 ft  
Length of PVC Well Screen 20 ft  
Depth of PVC Well 67 ft  
Depth of Exploratory Well 67 ft  
Depth to Groundwater 57 ft



- Indicates the groundwater level measured on date.
- Indicates samples selected for Laboratory Analysis.
- PID Head-space reading in ppm obtained with a photo-ionization detector.

## Completion Notes

- The monitor well was installed on date using air rotary drilling techniques.
- The well was constructed with 4" ID, 0.020 inch factory coated, threaded joint, schedule 40 PVC pipe.
- The well is protected with a locked stick up steel cover and a compression cap.
- The lines between material types shown on the profile log represent approximate boundaries. Actual transitions may be gradual.
- The depths indicated are referenced from the ground surface.

## Boring Log And Monitoring Well Details

### Monitor Well MW-5

EOTT Energy Corp. Darr Angell #3 / #4 Lea County, NM

Environmental Technology Group, Inc.



Prep By: JDI  
May 1, 2002  
Checked By: CR  
ETGI Project # E03078

# Monitor Well MW-6

Depth (feet) \_\_\_\_\_

Soil Columns \_\_\_\_\_

PID Reading \_\_\_\_\_

Petroleum Odor \_\_\_\_\_

Petroleum Stain \_\_\_\_\_

## Soil Description

Sand (SP) - Red to Brown, Very Fine Grained, Well Sorted with Sandstone Nodules.

Sand (SP) - Red to Tan, Very Fine Grained, Well Sorted with Caliche Nodules.

Caliche Layer

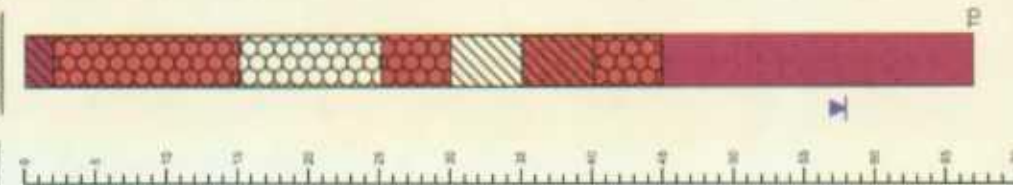
Sand (SP) - Tan, Very Fine Grained, Well Sorted with Caliche Nodules.

Sandstone Layer

Sand (SP) - Red to Brown, Very Fine Grained, Well Sorted with Abundant Sandstone Nodules.

Sand (SP) - Red to Tan, Very Fine Grained, Well Sorted with Caliche Nodules.

Sand (SP) - Red to Brown, Very Fine Grained, Well Sorted.



## Monitor Well Details

Date Drilled: 7-31-01

Thickness of Bentonite Seal: 2 ft

Length of PVC Well Screen: 20 ft

Depth of PVC Well: 67 ft

Depth of Exploratory Well: 67 ft

Depth to Groundwater: 58 ft

Grout Surface Seal

Bentonite Pellet Seal

Sand Pack

Screen

Indicates the groundwater level measured on date.

Indicates samples selected for Laboratory Analysis.

PID Head-space reading in ppm obtained with a photo-ionization detector.

## Completion Notes

1. The monitor well was installed on date using air rotary drilling techniques.

2. The well was constructed with 4" ID, 0.020 inch factory sealed, threaded joint, schedule 40 PVC pipe.

3. The well is protected with a locked stop up steel cover and a compression cap.  
4. The lines between material types shown on the profile log represent approximate boundaries. Actual transitions may be gradual.

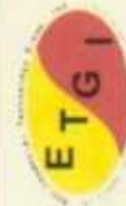
5. The depths indicated are referenced from the ground surface.

Boring Log And Monitoring Well Details

Monitor Well MW-6

EOTT Energy Corp. Darr Angell #3 / #4 Lea County, NM

Environmental Technology Group, Inc.



Prep By: JCU

May 1, 2002

ETGI Project # E03073

Checked By: DR



# Monitor Well MW-7

Depth (feet) \_\_\_\_\_

Soil Columns \_\_\_\_\_

PID Reading \_\_\_\_\_

Petroleum Odor \_\_\_\_\_

Petroleum Stain \_\_\_\_\_

## Soil Description

Sand (SM) - Brown, Very Fine Grained, Well Sorted.

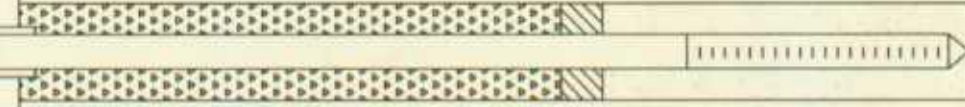
Caliche Layer

Sand (SP) - Red to Brown, Very Fine Grained, Well Sorted.

Sand (SP) - Red to Tan, Very Fine Grained, Well Sorted with Sandstone Nodules.

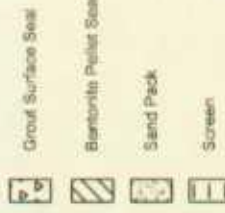
Sand (SP) - Red to Brown, Very Fine Grained, Well Sorted with Abundant Sandstone Nodules.

Sand (SP) - Red to Brown, Very Fine Grained, Well Sorted.



## Monitor Well Details

Date Drilled: 7-31-01  
 Thickness of Bentonite Seal: 3 ft.  
 Length of PVC Well Screen: 20 ft.  
 Depth of PVC Well: 67 ft.  
 Depth of Exploratory Well: 67 ft.  
 Depth to Groundwater: 58 ft.



- Indicates the groundwater level measured on data.
- Indicates samples selected for Laboratory Analysis.
- PID Head-space reading in ppm obtained with a photo-ionization detector.

## Completion Notes

- The monitor well was installed on date using air rotary drilling techniques.
- The well was constructed with 4" ID, 0.020 inch factory slot, threaded joint, schedule 40 PVC pipe.
- The well is protected with a locked stick up steel cover and a compression cap.
- The lines between material types shown on the profile log represent approximate boundaries. Actual transitions may be gradual.
- The depths indicated are referenced from the ground surface.

Boring Log And Monitoring Well Details

Monitor Well MW-7

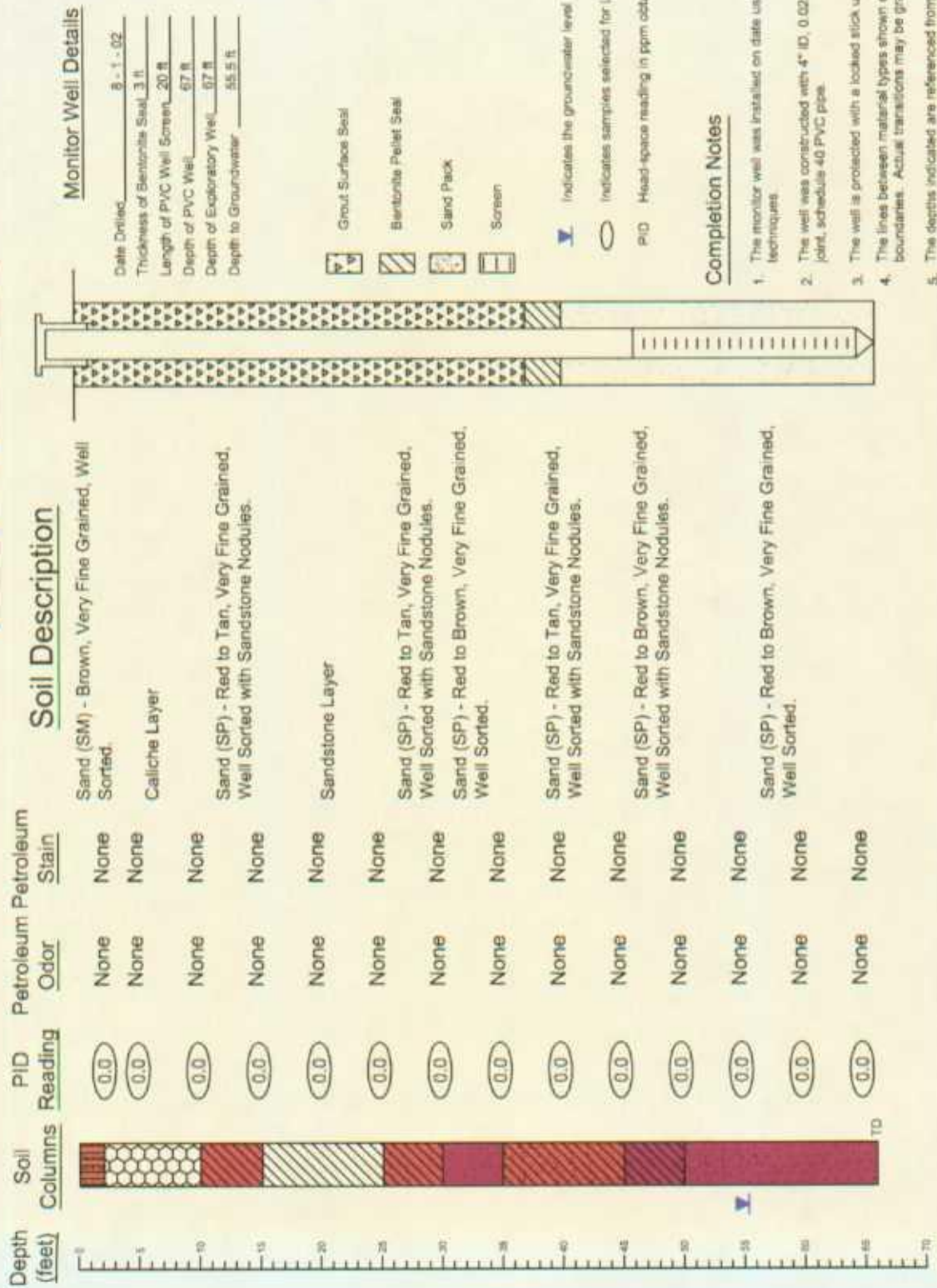
EOTT Energy Corp. Darr Angell #3 / #4 Lea County, NM



Environmental Technology Group, Inc.

Prep By: JDU  
 May 1, 2002  
 Checked By: CR  
 ETOF Project # EQ0075

## Monitor Well MW-8



### Completion Notes

1. The monitor well was installed on site using air rotary drilling techniques.
2. The well was constructed with 4" ID, 0.020 inch factory slotted, threaded joint, schedule 40 PVC pipe.
3. The well is protected with a locked stick up steel cover and a compression cap.
4. The lines between material types shown on the profile log represent approximate boundaries. Actual transitions may be gradual.
5. The depths indicated are referenced from the ground surface.

## Boring Log And Monitoring Well Details

Monitor Well MW-8

EOTT Energy Corp. Darr Angell #3 / #4 Lea County, NM

Environmental Technology  
Group, Inc.

|              |                      |
|--------------|----------------------|
| Prep By: JOL | Checked By: CH       |
| May 1, 2002  | ETQ Project # EQ2575 |



# Monitor Well MW-9

Depth (feet) \_\_\_\_\_

Soil Columns \_\_\_\_\_

PID Reading \_\_\_\_\_

Petroleum Odor \_\_\_\_\_

Petroleum Stain \_\_\_\_\_

## Soil Description

|                                                                                                                                                                                                                                                                                                                                                                                                                                                         |   |    |    |    |    |    |    |    |    |    |    |    |    |    |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|----|----|----|----|----|----|----|----|----|----|----|----|----|
| 0                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 5 | 10 | 15 | 20 | 25 | 30 | 35 | 40 | 45 | 50 | 55 | 60 | 65 | 70 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                         |   |    |    |    |    |    |    |    |    |    |    |    |    |    |
| <p>Sand (SP) - Brown, Very Fine Grained, Well Sorted.</p> <p>Caliche Layer.</p> <p>Sand (SP) - Red to Brown, Very Fine Grained, Well Sorted, with Caliche Nodules.</p> <p>Sand (SP) - Red to Tan, Very Fine Grained, Well Sorted, with Caliche Nodules.</p> <p>Sandstone Layer.</p> <p>Sand (SP) - Red, Very Fine Grained, Well Sorted with Sandstone Nodules.</p> <p>Sand (SP) - Red to Tan, Very Fine Grained, Well Sorted, with Caliche Nodules.</p> |   |    |    |    |    |    |    |    |    |    |    |    |    |    |

## Monitor Well Details

Date Drilled: 8-9-01  
 Thickness of Bentonite Seal: 2 ft  
 Length of PVC Well Screen: 20 ft  
 Depth of PVC Well: 67 ft  
 Depth of Exploratory Well: 67 ft  
 Depth to Groundwater: 55.5 ft



- Y Indicates the groundwater level measured on date.
- O Indicates samples selected for Laboratory Analysis.
- PID Head-space reading in ppm obtained with a photo-ionization detector.

## Completion Notes

- The monitor well was installed on date using air rotary drilling techniques.
- The well was constructed with 4" ID, 0.020 inch factory stoned, threaded joint, schedule 40 PVC pipe.
- The well is protected with a locked stick up steel cover and a compression cap.
- The lines between material types shown on the profile log represent approximate boundaries. Actual transitions may be gradual.
- The depths indicated are referenced from the ground surface.

## Boring Log And Monitoring Well Details

### Monitor Well MW-9

EOTT Energy Corp. Darr Angell #3 / #4 Lea County, NM

Environmental Technology Group, Inc.

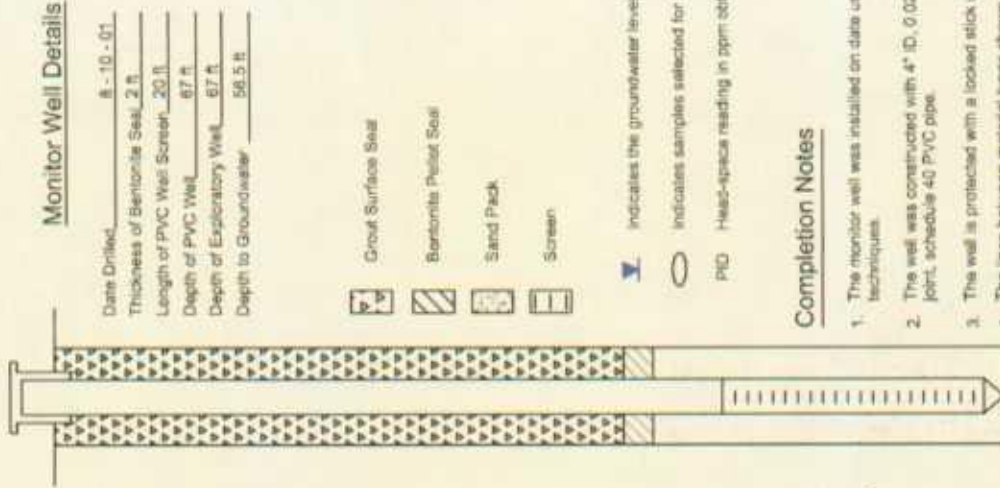


Prep By: LDM  
 Checked By: OR  
 Date: 12/12/2002  
 ETGI Project # E00075



# Monitor Well MW-10

| Depth (feet) | Soil Columns | PID Reading | Petroleum Odor | Petroleum Stain | Soil Description                                                                |
|--------------|--------------|-------------|----------------|-----------------|---------------------------------------------------------------------------------|
| 0            |              | 0.0         | None           | None            | Sand (SP) - Red to Tan, Very Fine Grained, Well Sorted with Caliche Nodules.    |
| 2            |              | 0.0         | None           | None            | Caliche Layer                                                                   |
| 4            |              | 0.0         | None           | None            | Sand (SP) - Red, Very Fine Grained, Well Sorted, with abundant Caliche Nodules. |
| 6            |              |             |                |                 |                                                                                 |
| 8            |              |             |                |                 |                                                                                 |
| 10           |              |             |                |                 |                                                                                 |
| 12           |              | 0.0         | None           | None            | Caliche Layer                                                                   |
| 14           |              |             |                |                 |                                                                                 |
| 16           |              | 0.0         | None           | None            |                                                                                 |
| 18           |              |             |                |                 |                                                                                 |
| 20           |              | 0.0         | None           | None            | Sand (SP) - Tan, Very Fine Grained, Well Sorted, with Caliche Nodules.          |
| 22           |              |             |                |                 |                                                                                 |
| 24           |              | 0.0         | None           | None            | Sand (SP) - Red to Tan, Very Fine Grained, Well Sorted.                         |
| 26           |              |             |                |                 |                                                                                 |
| 28           |              | 0.0         | None           | None            | Sand (SP) - Red, Very Fine Grained, Well Sorted.                                |
| 30           |              |             |                |                 |                                                                                 |
| 32           |              | 0.0         | None           | None            |                                                                                 |
| 34           |              |             |                |                 |                                                                                 |
| 36           |              | 0.0         | None           | None            | Sand (SP) - Red to Tan, Very Fine Grained, Well Sorted, with Caliche Nodules.   |
| 38           |              |             |                |                 |                                                                                 |
| 40           |              | 0.0         | None           | None            |                                                                                 |
| 42           |              |             |                |                 |                                                                                 |
| 44           |              | 0.0         | None           | None            |                                                                                 |
| 46           |              |             |                |                 |                                                                                 |
| 48           |              | 0.0         | None           | None            | Sand (SP) - Red to Brown, Very Fine Grained, Well Sorted.                       |
| 50           |              |             |                |                 |                                                                                 |
| 52           |              | 0.0         | None           | None            |                                                                                 |
| 54           |              |             |                |                 |                                                                                 |
| 56           |              | 0.0         | None           | None            |                                                                                 |
| 58           |              |             |                |                 |                                                                                 |
| 60           |              | 0.0         | None           | None            |                                                                                 |
| 62           |              |             |                |                 |                                                                                 |
| 64           |              | 0.0         | None           | None            |                                                                                 |
| 66           |              |             |                |                 |                                                                                 |
| 68           |              | 0.0         | None           | None            |                                                                                 |
| 70           |              |             |                |                 |                                                                                 |



## Monitor Well Details

Date Drilled: 8-10-01  
 Thickness of Bentonite Seal: 2 ft.  
 Length of PVC Well Screen: 20 ft.  
 Depth of PVC Well: 67 ft.  
 Depth of Exploratory Well: 67 ft.  
 Depth to Groundwater: 56.5 ft.

- Grout Surface Seal
- Bentonite Pellet Seal
- Sand Pack
- Screen

- Indicates the groundwater level measured on data.
- Indicates samples selected for Laboratory Analysis.
- PID Head-space reading in ppm obtained with a photo-ionization detector.

## Completion Notes

- The monitor well was installed on data using air rotary drilling techniques.
- The well was constructed with 4" ID, 0.030 inch factory section, threaded joint, schedule 40 PVC pipe.
- The well is protected with a locked stick up steel cover and a compression cap.
- The lines between material types shown on the profile log represent approximate boundaries. Actual transitions may be gradual.
- The depths indicated are referenced from the ground surface.

## Boring Log And Monitoring Well Details

### Monitor Well MW-10

EOTT Energy Corp. Darr Angel #3 / #4 Lea County, NM



Environmental Technology Group, Inc.

Prep By: LDM  
 Checked By: CR  
 Date: 12, 2002  
 ETGI Project # EQ0075

# Monitor Well MW-11

Depth (feet) \_\_\_\_\_



PID Reading \_\_\_\_\_

Petroleum Odor \_\_\_\_\_

Petroleum Stain \_\_\_\_\_

## Soil Description

Sand (SP) - Brown, Very Fine Grained, Well Sorted.

Sand (SP) - Tan, Very Fine Grained, Well Sorted, with Caliche Nodules.

Sand (SP) - Red, Very Fine Grained, Well Sorted, with abundant Caliche Nodules.

Caliche Layer

Sandstone Layer

Sand (SP) - Tan, Very Fine Grained, Well Sorted, with Caliche Nodules.

Sand (SP) - Red to Tan, Very Fine Grained, Well Sorted, with Caliche Nodules.

Sand (SP) - Red to Brown, Very Fine Grained, Well Sorted, with Caliche Nodules.

## Monitor Well Details

Date Drilled: 8-9-01  
Thickness of Bentonite Seal: 2 ft  
Length of PVC Well Screen: 20 ft  
Depth of PVC Well: 47 ft  
Depth of Exploratory Well: 87 ft  
Depth to Groundwater: 56.5 ft

Ground Surface Seal  
Bentonite Pigtail Seal  
Sand Pack  
Screen

Indicates the groundwater level measured on date.

Indicates samples selected for Laboratory Analysis.

PID Head-space reading in ppm obtained with a photo-ionization detector

## Completion Notes

- The monitor well was installed on date using air rotary drilling techniques.
- The well was constructed with 4" ID, 0.020 inch factory slot, threaded joint, schedule 40 PVC pipe.
- The well is protected with a locked stick up steel cover and a compression cap.
- The lines between material types shown on the profile log represent approximate boundaries. Actual transitions may be gradual.
- The depths indicated are referenced from the ground surface.

## Boring Log And Monitoring Well Details

### Monitor Well MW-11

EOTT Energy Corp. Darr Angell #3 / #4 Lea County, NM



Environmental Technology Group, Inc.

Prep By: LOM  
Checked By: OR  
Date: 12-2002  
ETGI Project # E02075



# Monitor Well MW-12

Depth (feet) \_\_\_\_\_

Soil Columns \_\_\_\_\_

PID Reading \_\_\_\_\_

Petroleum Odor \_\_\_\_\_

Petroleum Stain \_\_\_\_\_

## Soil Description

Sand (SP) - Brown, Very Fine Grained, Well Sorted with Caliche Nodules.  
Sand (SP) - Tan, Very Fine Grained, Well Sorted, with Caliche Nodules.

Caliche Layer

Sandstone Layer

Sand (SP) - Red to Tan, Very Fine Grained, Well Sorted, with Sandstone Nodules.

Sand (SP) - Red to Brown, Very Fine Grained, Well Sorted, with Sandstone Nodules.

Sand (SP) - Red to Brown, Very Fine Grained, well Sorted, with Caliche nodules.

## Monitor Well Details

Date Drilled: 8-13-01  
Thickness of Bentonite Seal: 2 ft  
Length of PVC Well Screen: 20 ft  
Depth of PVC Well: 67 ft  
Depth of Exploratory Well: 67 ft  
Depth to Groundwater: 56.5 ft



- Indicates the groundwater level measured on date.
- Indicates samples selected for Laboratory Analysis.
- PID Head-space reading in ppm obtained with a photo-ionization detector.

## Completion Notes

- The monitor well was installed on date using air rotary drilling techniques.
- The well was constructed with 4" ID, 0.020 inch factory socket, threaded joint, schedule 40 PVC pipe.
- The well is protected with a locked stick up steel cover and a compression cap.
- The lines between material types shown on the profile log represent approximate boundaries. Actual transitions may be gradual.
- The depths indicated are referenced from the ground surface.

Boring Log And Monitoring Well Details

Monitor Well MW-12

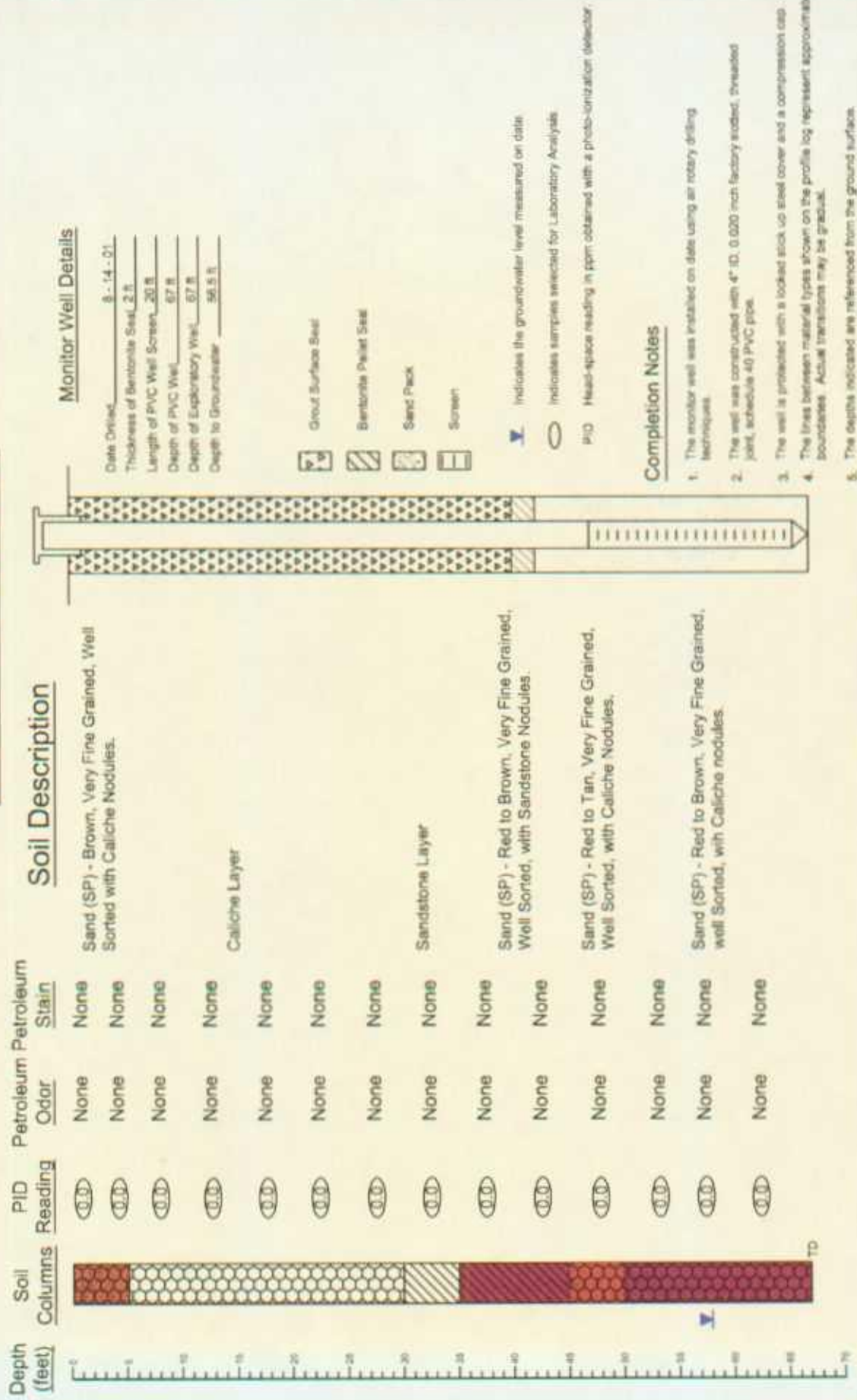
EOTT Energy Corp. Darr Angell #3 / #4 Lea County, NM



Environmental Technology Group, Inc.

Prep By: LDM  
Sect 12, 2002  
Checked By: CR  
ETGI Project # E03075

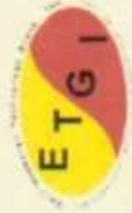
# Monitor Well MW-13



Boring Log And Monitoring Well Details

Monitor Well MW-13

EOTT Energy Corp. Darr Angell #3 / #4 Lea County, NM

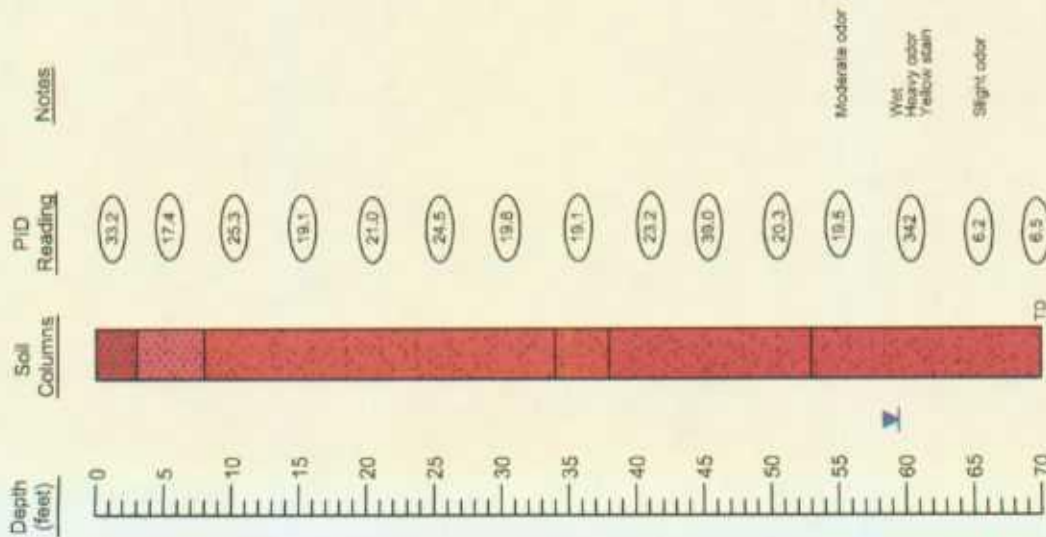


Environmental Technology Group, Inc.

Prep By: LDM  
 Checked By: CH  
 Sept 12, 2002  
 ETG Project # EC2073



# Recovery Well RW - 1



## Legend

- Sand - (SP) - Dark brown, very fine grained, well sorted, dry, no stain, no odor, caliche nodules.
- Sand - (SP) - Tan, very fine grained, well sorted, dry, no stain, no odor, caliche nodules.
- Sand - (SP) - Red tan, very fine grained, well sorted, dry, no stain, no odor, sandstone nodules.
- Sand - (SP) - Red, very fine grained, well sorted, dry, no stain, no odor.

○ Indicates samples selected for laboratory analysis.

∇ Indicates the PSH level measured on date.

⬇ Indicates the ground water level measured on date.

PID Head-space reading in ppm obtained with a photo-ionization detector.

## Completion Notes

- The monitoring well was installed on date using air rotary drilling techniques.
- The well was constructed with 4" ID, 0.020 inch factory slotted, threaded joint, schedule 40 PVC pipe.
- The well is protected with a locked stick up steel cover and a compression cap.
- The lines between material types shown on the profile log represent approximate boundaries. Actual transitions may be gradual.
- The depths indicated are referenced from the ground surface.

## Monitoring Well Details

|                             |          |
|-----------------------------|----------|
| Date Drilled                | 07-05-00 |
| Thickness of Bentonite Seal | 2 ft     |
| Length of PVC Well Screen   | 25 ft    |
| Depth of PVC Well           | 70 ft    |
| Depth of Expository Well    | 70 ft    |
| Depth to Ground Water       | 59.5 ft  |

- Grout Surface Seal
- Bentonite Pellet Seal
- Sand Pack
- Screen

## Boring Log And Monitoring Well Details

### Recovery Well - 1

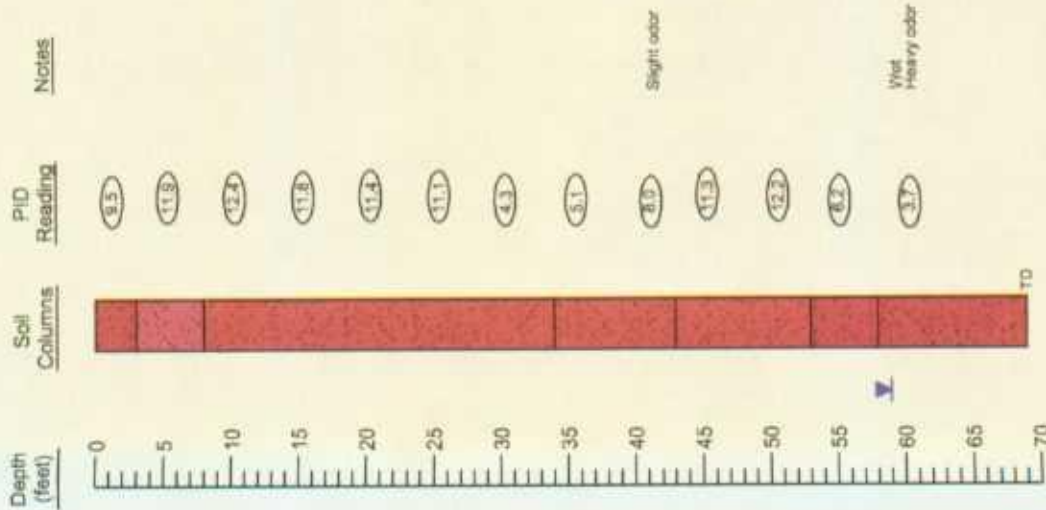
EOTT Energy Corp. Darr Angell #3 / #4 Lea County, NM

Environmental Technology Group, Inc.



|                  |                         |                |
|------------------|-------------------------|----------------|
| Scale, use scale | Print By: RB            | Checked By: JT |
| July 5, 2000     | ETG Project # EOT 20750 |                |

# Recovery Well RW - 2



## Legend

- Sand - (SP) - Brown tan, very fine grained, well sorted, dry, no stain, no odor, calciche nodules.
- Sand - (SP) - Red brown, very fine grained, well sorted, dry, no stain, no odor, calciche nodules.
- Sand - (SP) - Red tan, very fine grained, well sorted, dry, no stain, no odor, calciche nodules.
- Sand - (SP) - Red, very fine grained, well sorted, dry, no stain, no odor.

○ Indicates samples selected for laboratory analysis.

∇ Indicates the PSH level measured on date.

∇ Indicates the ground water level measured on date.

PID Head-space reading in ppm obtained with a photo-ionization detector.

## Completion Notes

- The monitoring well was installed on date using air rotary drilling techniques.
- The well was constructed with 4" ID, 0.020 inch factory scribed, threaded joint, schedule 40 PVC pipe.
- The well is protected with a locked stick up steel cover and a compression cap.
- The lines between material types shown on the profile log represent approximate boundaries. Actual transitions may be gradual.
- The depths indicated are referenced from the ground surface.

## Boring Log And Monitoring Well Details

### Recovery Well - 2

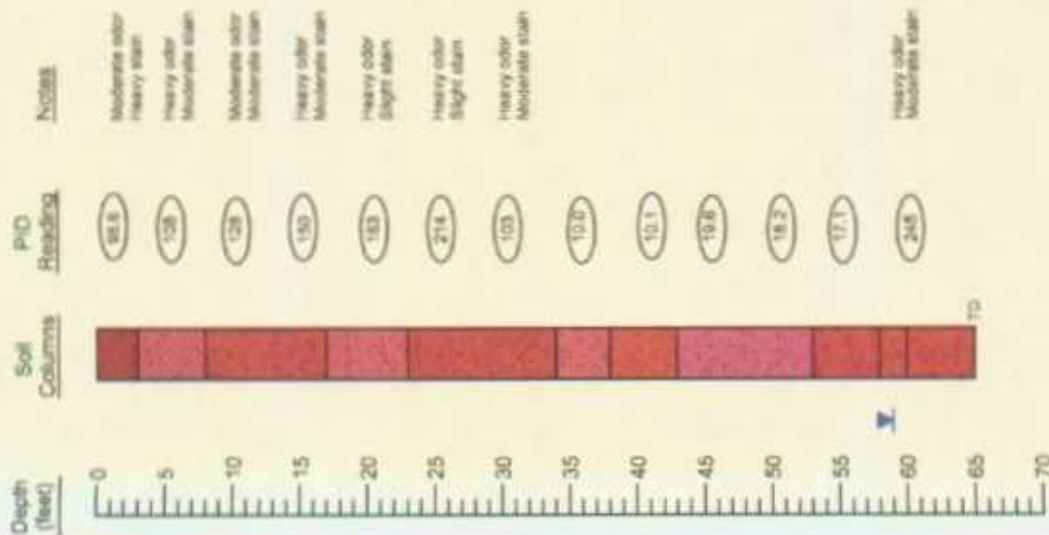
EOTT Energy Corp. Darr Angell #3 / #4 Lea County, NM



Environmental Technology Group, Inc.

Scale: 1 inch = 10 feet  
 Date: July 5, 2000  
 Project: EOTT Project # EOTT 2075C

# Recovery Well RW - 3



## Legend

- Sand - (SP) - Brown tan, very fine grained, well sorted, dry, no stain, no odor, calcareous nodules.
- Sand - (SP) - Red brown, very fine grained, well sorted, dry, no stain, no odor, calcareous nodules.
- Sand - (SP) - Red tan, very fine grained, well sorted, dry, no stain, no odor, calcareous nodules.
- Sand - (SP) - Red, very fine grained, well sorted, dry, no stain, no odor.
- Sand - (SP) - Dark brown, very fine grained, well sorted, dry, no stain, no odor, calcareous nodules.
- Sand - (SP) - Tan, very fine grained, well sorted, dry, no stain, no odor, calcareous nodules.

Indicates samples analyzed for laboratory analysis

Indicates the pH level measured on data

Indicates the ground water level measured on data

Head space reading in ppm obtained with a photo-luminescence detector

## Completion Notes

- The monitoring well was repaired on data using an rotary drilling technique.
- The well was constructed with 4" ID, 0.020 inch factory solid, threaded joint, schedule 40 PVC pipe.
- The well is protected with a locked stock up steel cover and a compression cap.
- The lines between material types shown on the profile log represent approximate boundaries. Actual transitions may be gradual.
- The depths indicated are referenced from the ground surface.

## Monitoring Well Details

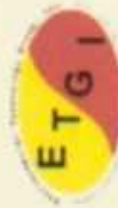
|                             |              |
|-----------------------------|--------------|
| Drill Casing                | 07 - 12 - 02 |
| Thickness of Bentonite Seal | 3 ft         |
| Length of PVC Well Screen   | 25 ft        |
| Depth of PVC Well           | 45 ft        |
| Depth of Exploratory Well   | 55 ft        |
| Depth to Ground Water       | 55 ft        |

- Grout Surface Seal
- Bentonite Pellet Seal
- Sand Pack
- Screen

## Boring Log And Monitoring Well Details

### Recovery Well - 3

EOTT Energy Corp. Darr Angell #3 / #4 Lea County, NM

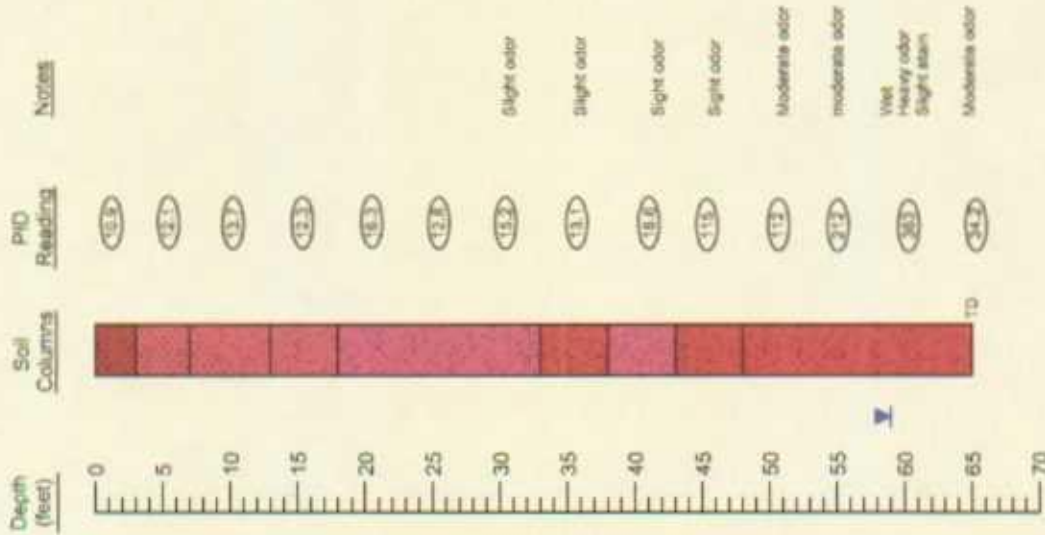


Environmental Technology Group, Inc.

|                          |         |            |
|--------------------------|---------|------------|
| Date well was            | Prep By | Checked By |
| July 13, 2000            | RB      | JT         |
| E110 Project # 827 2075C |         |            |



# Recovery Well RW - 4



## Monitoring Well Details

|                             |              |
|-----------------------------|--------------|
| Date Drilled                | 07 - 12 - 00 |
| Thickness of Bentonite Seal | 3 ft         |
| Length of PVC Well Screen   | 25 ft        |
| Depth of PVC Well           | 65 ft        |
| Depth of Exploratory Well   | 65 ft        |
| Depth to Ground Water       | 59 ft        |



## Legend

- Sand - (SP) - Brown tan, very fine grained, well sorted, dry, no stain, no odor, calcine nodules.
- Sand - (SP) - Red brown, very fine grained, well sorted, dry, no stain, no odor, calcine nodules.
- Sand - (SP) - Red tan, very fine grained, well sorted, dry, no stain, no odor, calcine nodules.
- Sand - (SP) - Red, very fine grained, well sorted, dry, no stain, no odor.
- Sand - (SP) - Dark brown, very fine grained, well sorted, dry, no stain, no odor, calcine nodules.
- Sand - (SP) - Tan, very fine grained, well sorted, dry, no stain, no odor, calcine nodules.

Indicates samples selected for laboratory analysis

Indicates the P10 level measured on date

Indicates the ground water level measured on date

P10 Head space reading in ppm obtained with a photo-ionization detector.

## Completion Notes

- The monitoring well was installed on date using air rotary drilling techniques.
- The well was constructed with 4" ID, 0.020 inch factory socket, threaded joint, schedule 40 PVC pipe.
- The well is protected with a locked stop up steel cover and a compression cap.
- The lines between material types shown on the profile log represent approximate boundaries. Actual transitions may be gradual.
- The depths indicated are referenced from the ground surface.

## Boring Log And Monitoring Well Details

### Recovery Well - 4

EOTT Energy Corp. Darr Angell #3 / #4 Lea County, NM



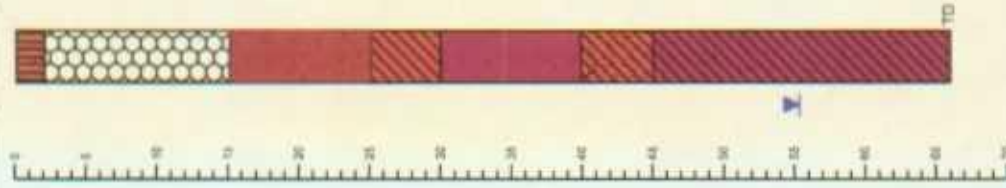
Environmental Technology Group, Inc.

|               |                           |                |
|---------------|---------------------------|----------------|
| Scale: 1:100  | Prep By: RS               | Checked By: JT |
| July 12, 2000 | EOTT Project # EOTT 00705 |                |



# Recovery Well RW-5

Depth (feet) Soil Columns PID Reading Petroleum Odor Petroleum Stain



## Soil Description

Sand (SM) - Brown, Very Fine Grained, Well Sorted.

Caliche Layer

Sand (SP) - Red to Tan, Very Fine Grained, Well Sorted with Abundant Caliche Nodules.

Sand (SP) - Red to Tan, Very Fine Grained, Well Sorted with Sandstone Nodules.

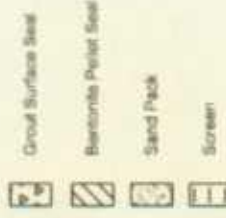
Sand (SP) - Red to Brown, Very Fine Grained, Well Sorted.

Sand (SP) - Red to Tan, Very Fine Grained, Well Sorted with Sandstone Nodules.

Sand (SP) - Red to Brown, Very Fine Grained, Well Sorted with Sandstone Nodules.

## Monitor Well Details

Date Drilled: 8-1-02  
Thickness of Bentonite Seal: 3.5  
Length of PVC Well Screen: 30.5  
Depth of PVC Well: 67.5  
Depth of Exploratory Well: 67.5  
Depth to Groundwater: 55.5 ft



- Indicates the groundwater level measured on date.
- Indicates samples selected for Laboratory Analysis.
- PID Head-space reading in ppm obtained with a photo-ionization detector.

## Completion Notes

1. The monitor well was installed on date using air rotary drilling techniques.
2. The well was constructed with 4" ID, 0.020 inch factory socket, threaded joint, schedule 40 PVC pipe.
3. The well is protected with a locked stick up steel cover and a compression cap.
4. The lines between material types shown on the profile log represent approximate boundaries. Actual transitions may be gradual.
5. The depths indicated are referenced from the ground surface.

Boring Log And Monitoring Well Details

Recovery Well RW-5

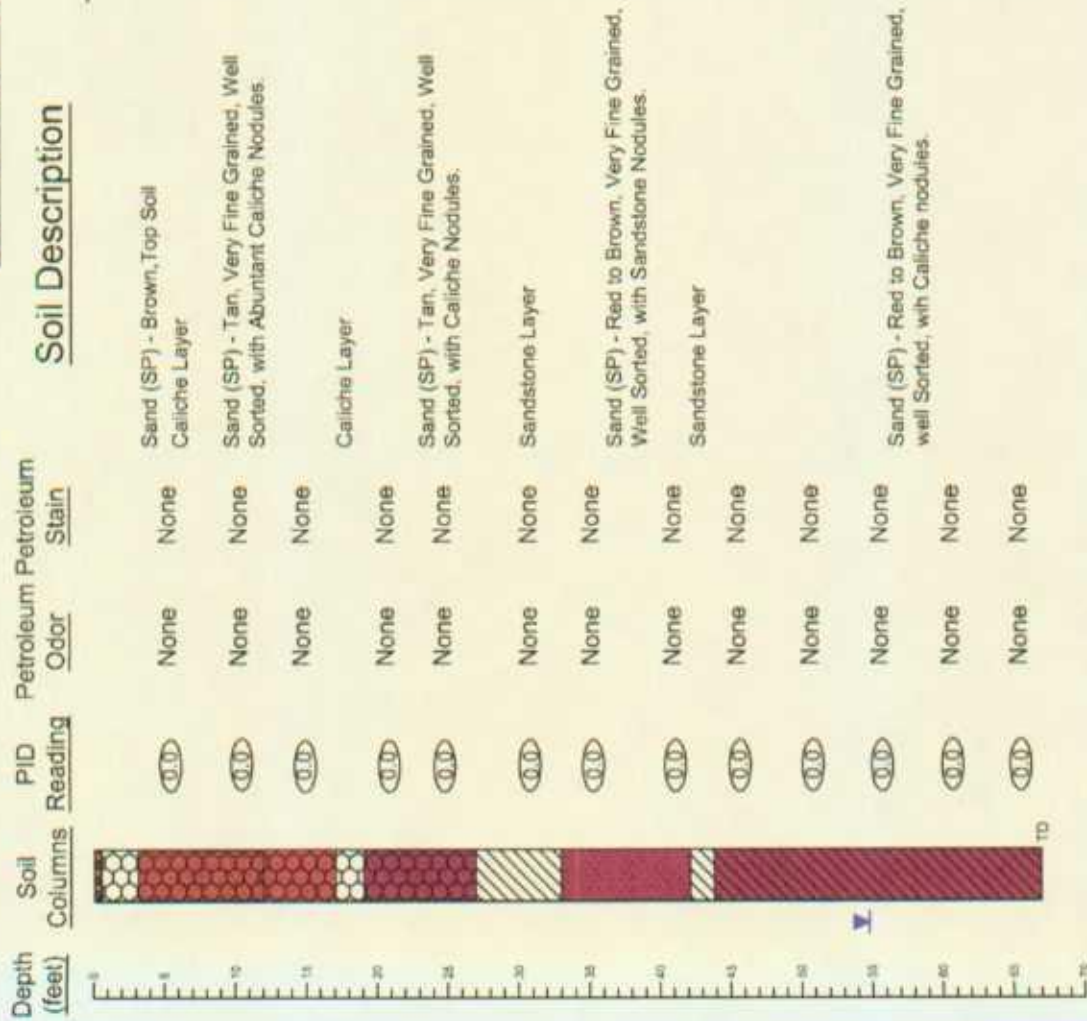
EOTT Energy Corp. Darr Angell #3 / #4 Lea County, NM

Environmental Technology Group, Inc.



Print By: JCU  
May 1, 2002  
Checked By: CR  
ETGI Project # E02075

# Recovery Well RW-6



## Monitor Well Details

Date Drilled 7-27-01  
 Thickness of Bentonite Seal 2 ft  
 Length of PVC Well Screen 20 ft  
 Depth of PVC Well 67 ft  
 Depth of Exploratory Well 67 ft  
 Depth to Groundwater 66.5 ft



- Y** Indicates the groundwater level measured on date.
- O** Indicates samples selected for Laboratory Analysis.
- PID** Head-space reading in ppm obtained with a photo-ionization detector.

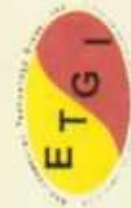
## Completion Notes

- The monitor well was installed on date using air rotary drilling techniques.
- The well was constructed with 4" ID, 0.020 inch factory socketed, threaded joint, schedule 40 PVC pipe.
- The well is protected with a locked stick up steel cover and a compression cap.
- The lines between material types shown on the profile log represent approximate boundaries. Actual transitions may be gradual.
- The depths indicated are referenced from the ground surface.

## Boring Log And Monitoring Well Details

### Recovery Well RW-6

EOTT Energy Corp. Darr Angell #3 / #4 Lea County, NM



Environmental Technology Group, Inc.

Prep By: LGM  
 Checked By: CH  
 Sept 12, 2002  
 ETGI Project # E00073

# GP-001

**Legend**  
 PID Head-space reading in ppm obtained with a photo-ionization detector.  
 Indicates samples selected for laboratory analysis.

Date Drilled 4 / 18 / 01

## Soil Description

Petroleum Odor  
 Petroleum Stain

PID Reading

Soil Columns

Depth (inches)

0" 12" 24" 36" 48"



Sand - (SM) - Brown, Very Fine to Fine Grained, Well Sorted, Dry.

Caliche Layer (Hard)

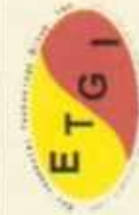
None

None

28-4

ET-001

Soil Boring Log Details  
 GP-001



Environmental Technology  
 Group, Inc.

Lea County, NM

Darr Angell #4

EOTT Energy Pipeline, LP

Scale: NTS  
 April 23, 2001  
 Prep By: JDU  
 Checked By: KDJ  
 ETGI Project #: EOTT2079C



# GP-002

**Legend**  
 PID Head-space reading in ppm obtained with a photo-ionization detector.  
 Indicates samples selected for laboratory analysis.  
 Date Drilled 4 / 18 / 01

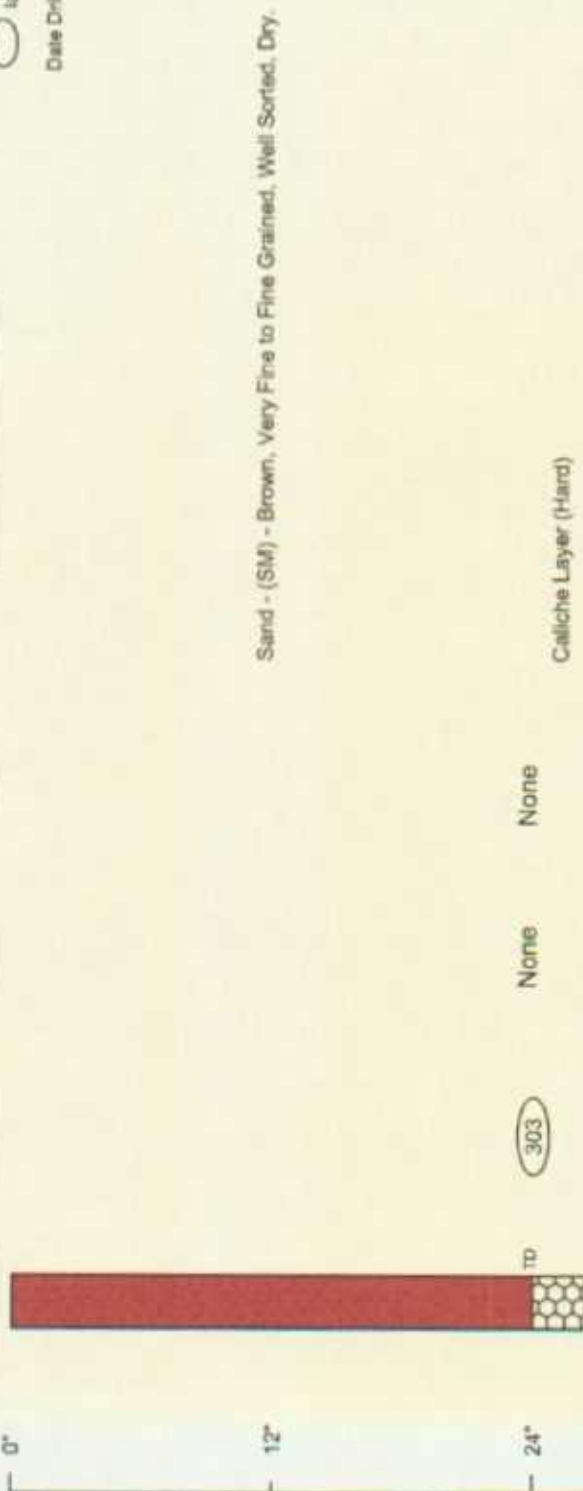
## Soil Description

Petroleum Odor  
 Petroleum Stain

PID Reading

Soil Columns

Depth (inches)



Soil Boring Log Details  
 GP-002

EOTT Energy Pipeline, LP Darr Angell #4

Lea County, NM



Environmental Technology  
 Group, Inc.

Scale: NTS  
 April 23, 2001  
 Prep By: JDU  
 Checked By: MD  
 ETGI Project #: EOT2073C

# GP-003

**Legend**  
 PID Head-space reading in ppm obtained with a photo-ionization detector.  
 Indicates samples selected for laboratory analysis.

Date Drilled 4 / 18 / 01

## Soil Description

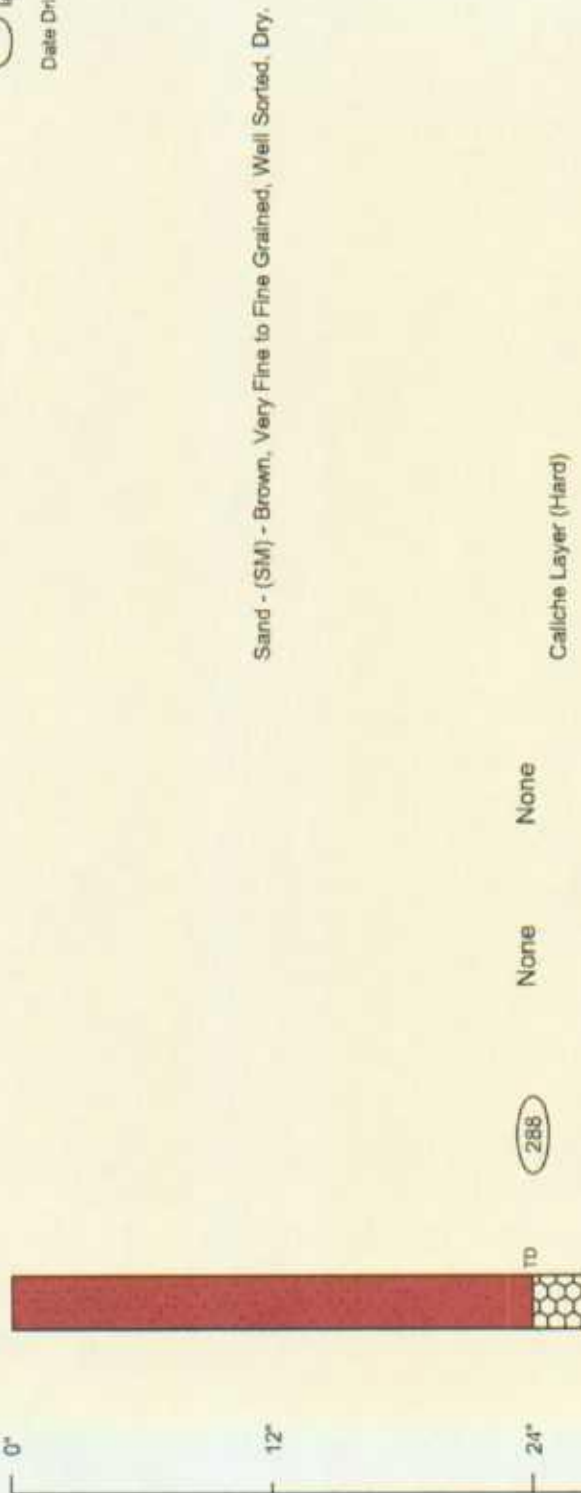
Petroleum Stain

Petroleum Odor

PID Reading

Soil Columns

Depth (inches)



Soil Boring Log Details  
 GP-003



Environmental Technology  
 Group, Inc.

EOTT Energy Pipeline, LP Darr Angell #4

Lea County, NM

Scale NTS  
 April 23, 2001  
 Prep By: JCU  
 Checked By: KD  
 ETGI Project #: EOT2075C

# GP-004

**Legend**  
 PID Head-space reading in ppm obtained with a photo-ionization detector.  
 Indicates samples selected for laboratory analysis.  
 Date Drilled 4 / 18 / 01

## Soil Description

Petroleum Odor  
 Petroleum Stain

PID Reading

Soil Columns

Depth (inches)



Soil Boring Log Details  
 GP-004

Lea County, NM

EOTT Energy Pipeline, LP Darr Angell #4

Environmental Technology  
 Group, Inc.



Scale: NTS  
 April 23, 2001  
 Prep By: JJJ  
 Checked By: KD  
 ETOB Project # EOT2079C

# GP-005

**Legend**  
 PID Head-space reading in ppm obtained with a photo-ionization detector  
 Indicates samples selected for laboratory analysis.  
 Date Drilled 4 / 18 / 01

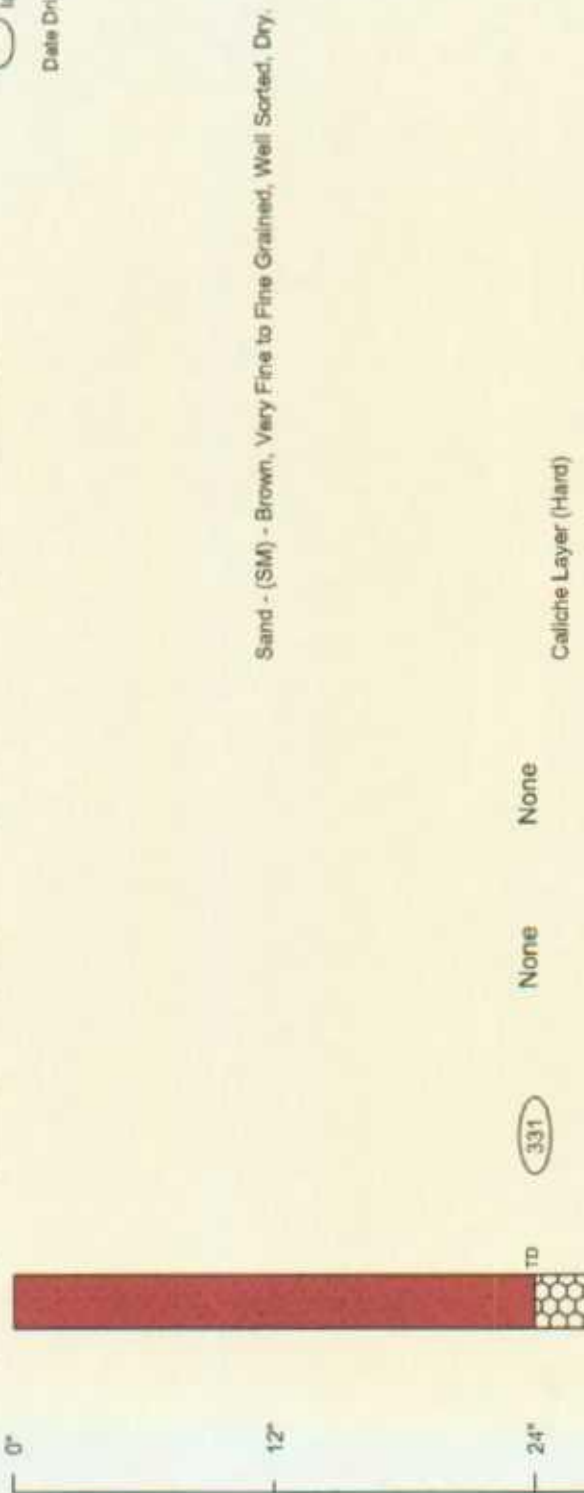
## Soil Description

Petroleum Odor  
 Petroleum Stain

PID Reading

Soil Columns

Depth (inches)



Soil Boring Log Details  
 GP-005

EOTT Energy Pipeline, LP Darr Angell #4

Lea County, NM

Environmental Technology  
 Group, Inc.



Scale: NTIS  
 April 22, 2001  
 Prep By: JDU  
 Checked By: KID  
 ETOI Project #: EOT2021NC

# GP-006

**Legend**  
 PID Head-space reading in ppm obtained with a photo-ionization detector.  
 Indicates samples selected for laboratory analysis.

Date Drilled 4 / 18 / 01

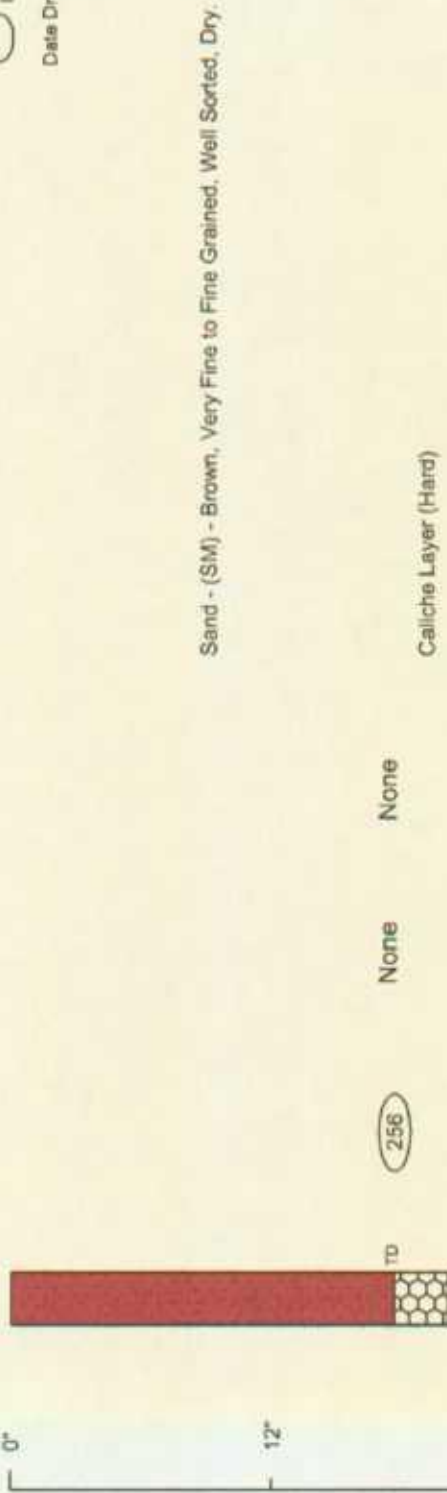
**Soil Description**

**Petroleum Odor**  
**Petroleum Stain**

**PID Reading**

**Soil Columns**

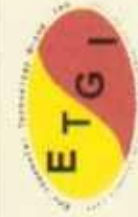
**Depth (inches)**



Soil Boring Log Details  
 GP-006

EOTT Energy Pipeline, LP Darr Angell #4

Lea County, NM



Environmental Technology  
 Group, Inc.

|                |                          |                |
|----------------|--------------------------|----------------|
| Scale: NTS     | Prep By: JLI             | Checked By: NO |
| April 23, 2001 | ETGI Project #: EOT2075C |                |



# GP-007

**Legend**  
 PID Head-space reading in ppm obtained with a photo-ionization detector.  
 Indicates samples selected for laboratory analysis.  
 Date Drilled 4 / 18 / 01

## Soil Description

Petroleum  
 Stain

Petroleum  
 Odor

PID  
 Reading

Soil  
 Columns

Depth  
 (inches)



Soil Boring Log Details  
 GP-007

EOTT Energy Pipeline, LP Darr Angell #4

Lea County, NM



Environmental Technology  
 Group, Inc.

Scale: NTS  
 April 23, 2001  
 Prep By: JDU  
 Checked By: KJ  
 ETTG Project #: E012075C

# GP-008

## Legend

PID Head-space reading in ppm obtained with a photo-ionization detector.  
 Indicates samples selected for laboratory analysis.

Date Drilled 4 / 18 / 01

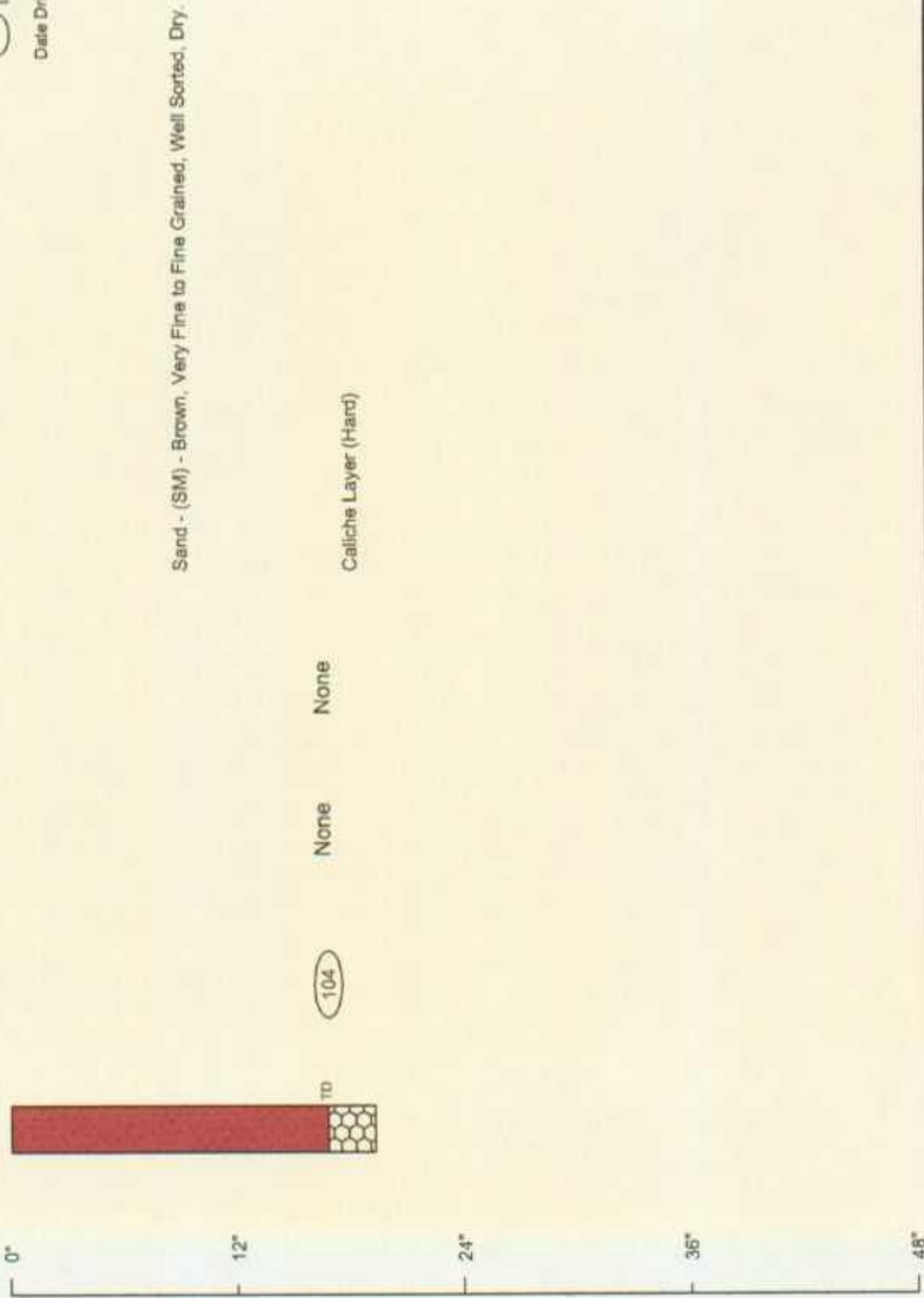
## Soil Description

Petroleum Odor  
 Petroleum Stain

PID Reading

Soil Columns

Depth (inches)



Soil Boring Log Details  
 GP-008

EOTT Energy Pipeline, LP Darr Angell #4

Lea County, NM

Environmental Technology  
 Group, Inc.



Scale NTS  
 April 23, 2001  
 Prep By: JGJ  
 Checked By: KD  
 ETGI Project #: EOT2075C

# GP-009

## Soil Description

Petroleum Odor  
Petroleum Stain

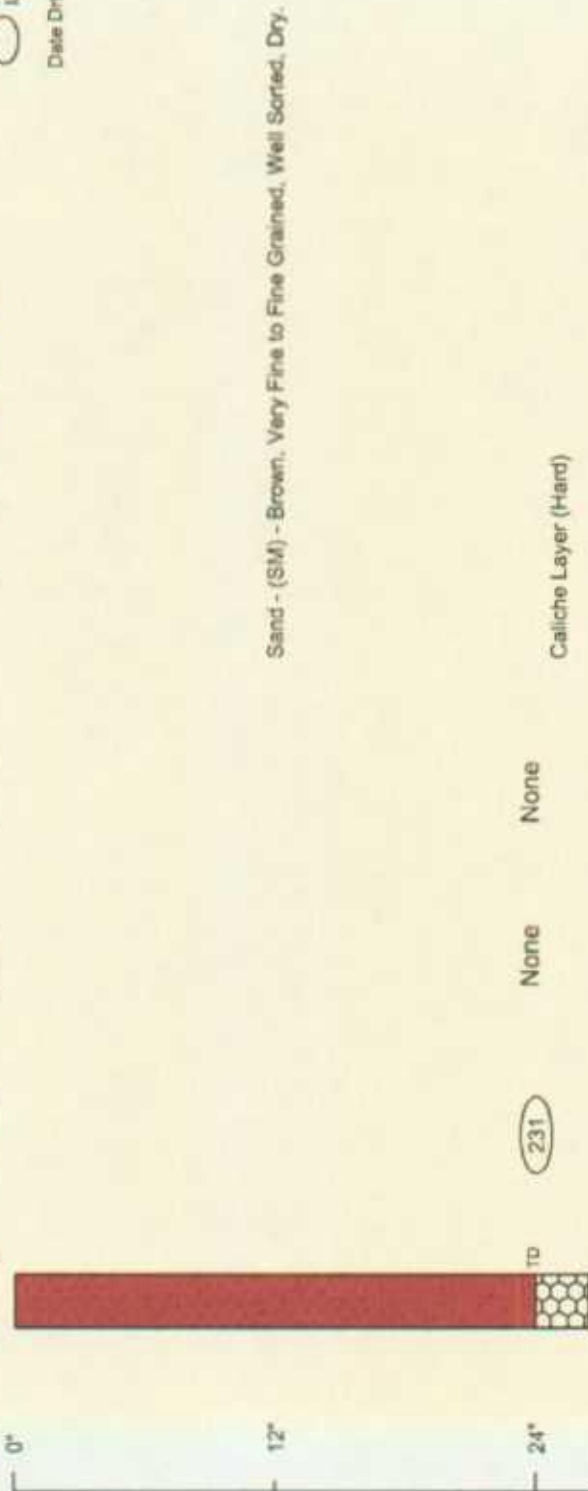
PID Reading

Soil Columns

Depth (Inches)

PID Head-space reading in ppm obtained with a photo-ionization detector.  
Indicates samples selected for laboratory analysis.

Date Drilled - 4 / 18 / 01

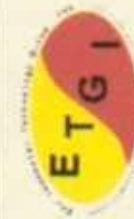


Soil Boring Log Details  
GP-009

EOTT Energy Pipeline, LP Darr Angell #4

Lea County, NM

Environmental Technology  
Group, Inc.



Scale: NTS  
Prep By: JCU  
Checked By: KD  
Date: Apr 23, 2001  
ETGI Project # TPC2211C

# GP-010

**Legend**  
 PID Head-space reading in ppm obtained with a photo-ionization detector.  
 Indicates samples selected for laboratory analysis.  
 Date Drilled 4 / 18 / 01

## Soil Description

Petroleum Odor  
 Petroleum Stain

PID Reading

Soil Columns

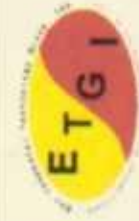
Depth (inches)



Soil Boring Log Details  
 GP-010

EOTT Energy Pipeline, LP Darr Angell #4

Lea County, NM



Environmental Technology  
 Group, Inc.

Scale: NTS  
 April 23, 2001  
 Prep By: JDU  
 Checked By: RQ  
 ETOG Project # EOT201SC

# GP-011

**Legend**  
 PID Head-space reading in ppm obtained with a photo-ionization detector.  
 Indicates samples selected for laboratory analysis.  
 Date Drilled 4 / 18 / 01

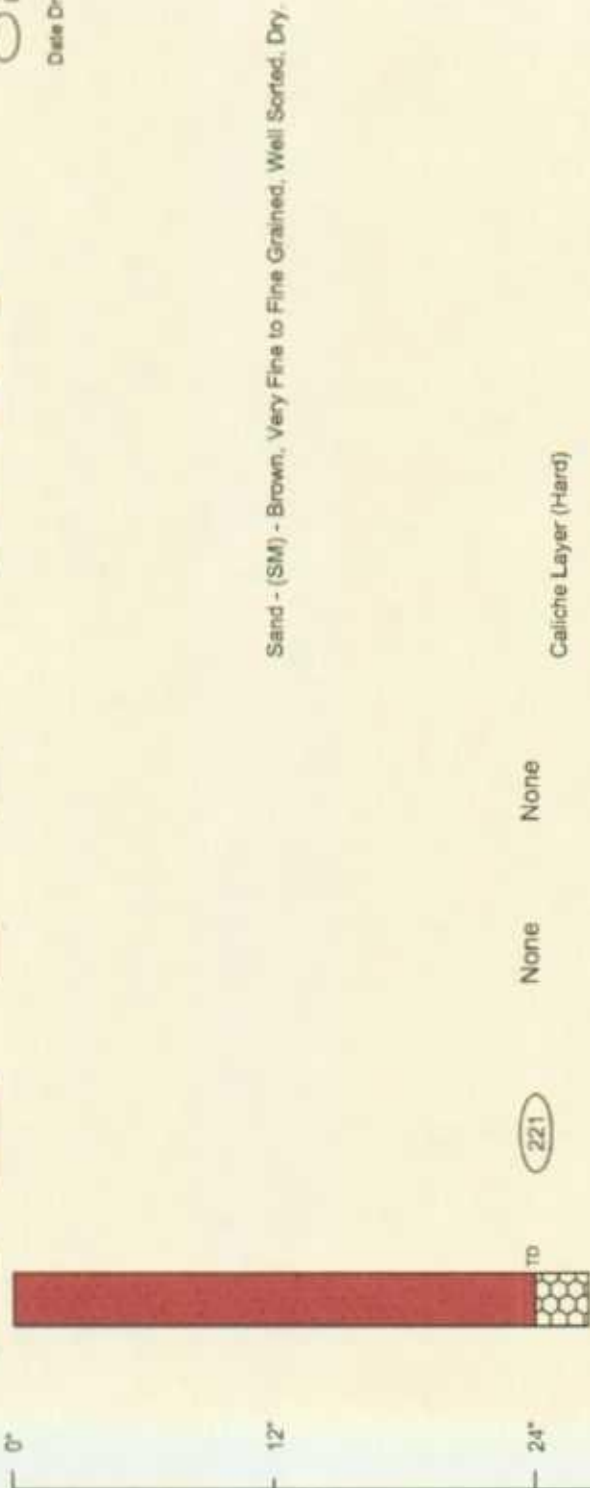
## Soil Description

Petroleum Odor  
 Petroleum Stain

PID Reading

Soil Columns

Depth (inches)



Soil Boring Log Details  
 GP-011

EOTT Energy Pipeline, LP Darr Angell #4

Lea County, NM



Environmental Technology Group, Inc.

Scale NTS  
 April 23, 2001  
 Prep By JGU  
 Checked By MC  
 ETOG Project # EOT2075C



# GP-012

**Legend**  
 PID Head-space reading in ppm obtained with a photo-ionization detector.  
 Indicates samples selected for laboratory analysis.  
 Date Drilled 4 / 18 / 01

## Soil Description

Petroleum Odor  
 Petroleum Stain

PID Reading

Soil Columns

Depth (inches)



Soil Boring Log Details  
 GP-012

EOTT Energy Pipeline, LP Darr Angell #4

Lea County, NM



Environmental Technology  
 Group, Inc.

Scale: NTS  
 April 23, 2001  
 Prep By: JGU  
 Checked By: KD  
 ETO Project # EOT201NC

# GP-013

**Legend**  
 PID Head-space reading in ppm obtained with a photo-ionization detector.  
 Indicates samples selected for laboratory analysis.  
 Date Drilled 4 / 18 / 01

## Soil Description

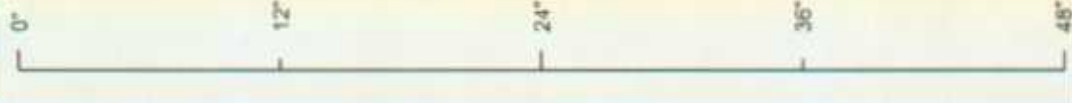
Petroleum  
Stain

Petroleum  
Odor

PID  
Reading

Soil  
Columns

Depth  
 (Inches)



Sand - (SM) - Brown, Very Fine to Fine Grained, Well Sorted, Dry.

None

None

1189

TD

Caliche Layer (Hard)

Soil Boring Log Details  
 GP-013

Environmental Technology  
 Group, Inc.



EOTT Energy Pipeline, LP Darr Angell #4

Lea County, NM

Scale NTS  
 April 23, 2001  
 Prep By: JDU  
 Checked By: MD  
 ETOG Project #: EOT2075C

# GP-014

**Legend**  
 PID: Head-space reading in ppm obtained with a photo-ionization detector.  
 Indicates samples selected for laboratory analysis.  
 Date Drilled: 4 / 18 / 01

## Soil Description

Petroleum Odor  
 Petroleum Stain

PID Reading

Soil Columns

Depth (inches)



None

None

343

TD

Sand - (SM) - Brown, Very Fine to Fine Grained, Well Sorted, Dry.

Caliche Layer (Hard)

Soil Boring Log Details  
 GP-014



Environmental Technology Group, Inc.

EOTT Energy Pipeline, LP Darr Angell #4

Lea County, NM

Scale: NTS  
 April 23, 2001  
 Prep By: DJ  
 Checked By: KD  
 ETGI Project #: EOT207SC



# GP-015

**Legend**  
 PID Head-space reading in ppm obtained with a photo-ionization detector  
 Indicates samples selected for laboratory analysis.  
 Date Drilled 4 / 18 / 01

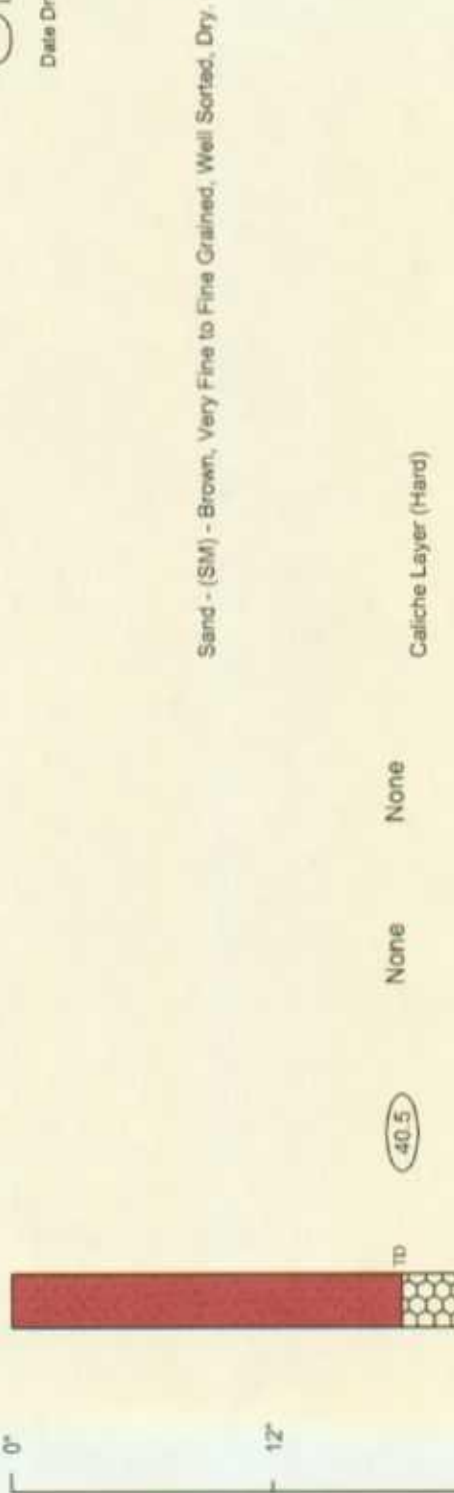
## Soil Description

Petroleum Odor  
 Petroleum Stain

PID Reading

Soil Columns

Depth (inches)



Soil Boring Log Details  
 GP-015

Environmental Technology  
 Group, Inc.



EOTT Energy Pipeline, LP Darr Angell #4

Lea County, NM

Scale: NTS  
 April 23, 2001  
 Prep By: JCU  
 Checked By: KD  
 ETGI Project #: EOT0275C

# GP-016

**Legend**  
 PID Head-space reading in ppm obtained with a photo-ionization detector.  
 Indicates samples selected for laboratory analysis.  
 Date Drilled 4 / 18 / 01

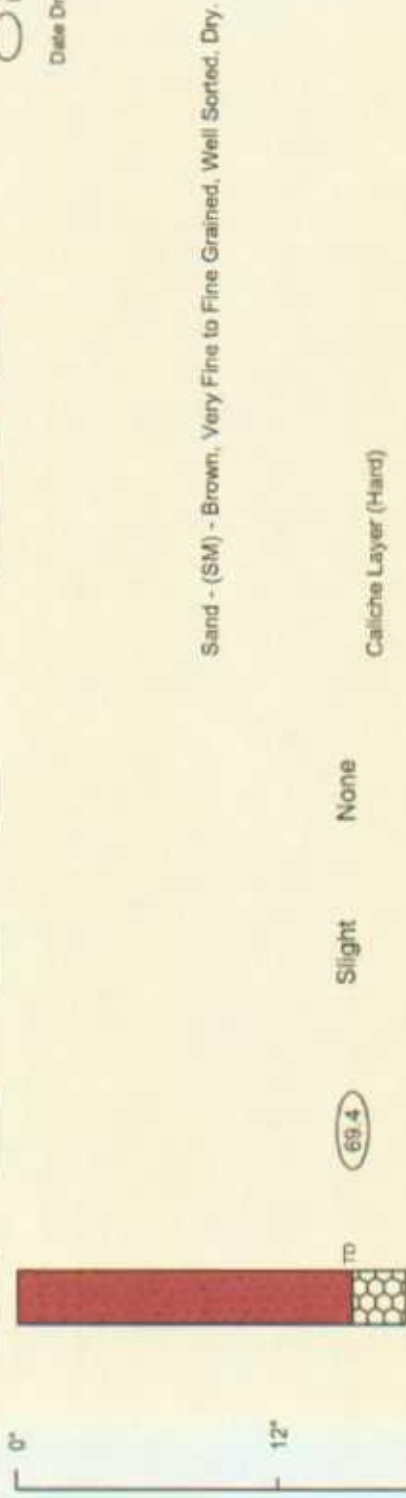
## Soil Description

Petroleum Odor  
 Petroleum Stain

PID Reading

Soil Columns

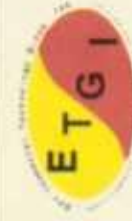
Depth (inches)



Soil Boring Log Details  
 GP-016

EOTT Energy Pipeline, LP Darr Angell #4

Lea County, NM



Environmental Technology  
 Group, Inc.

Scale: NTS  
 April 23, 2001  
 Prep By: JDU  
 Checked By: KD  
 ETOI Project #: EOT2075C

# GP-017

**Legend**  
 PID Head-space reading in ppm obtained with a photo-ionization detector.  
 Indicates samples selected for laboratory analysis.  
 Date Drilled 4 / 18 / 01

## Soil Description

Petroleum Odor  
 Petroleum Stain

PID Reading

Soil Columns

Depth (inches)



Soil Boring Log Details  
 GP-017



Environmental Technology  
 Group, Inc.

EOTT Energy Pipeline, LP Darr Angell #4

Lea County, NM

Scale: NTS  
 April 23, 2001  
 Prep By: JCU  
 Checked By: MD  
 ETGI Project #: E072075C

# GP-018

**Legend**  
 PID Head-space reading in ppm obtained with a photo-ionization detector.  
 Indicates samples selected for laboratory analysis.  
 Date Drilled 4 / 18 / 01

## Soil Description

Petroleum Odor  
 Petroleum Stain

PID Reading

Soil Columns

Depth (Inches)



Sand - (SM) - Brown, Very Fine to Fine Grained, Well Sorted, Dry with Caliche Nodules.

Caliche Layer (Hard)

None

None

110

TD

Soil Boring Log Details  
 GP-018



Environmental Technology  
 Group, Inc.

Lea County, NM

Darr Angell #4

EOTT Energy Pipeline, LP

Scale NTS  
 April 23, 2001  
 Prep By: JCU  
 Checked By: KD  
 ETOI Project # EOT2075C

# GP-019

**Legend**  
 PID Head-space reading in ppm obtained with a photo-ionization detector.  
 Indicates samples selected for laboratory analysis.  
 Date Drilled 4 / 18 / 01

## Soil Description

Petroleum Odor  
 Petroleum Stain

PID Reading

Soil Columns

Depth (inches)



Caliche Layer (Hard)

Sand - (SM) - Brown, Very Fine to Fine Grained, Well Sorted, Dry with Caliche Nodules.

None

None

76.5

Soil Boring Log Details  
 GP-019

Environmental Technology  
 Group, Inc.



EOTT Energy Pipeline, LP Darr Angell #4

Lea County, NM

State: NTG Prep By: JDU Checked By: ND  
 April 23, 2001 ETGI Project #: EOT2075C



# GP-020

**Legend**  
 PID Head-space reading in ppm obtained with a photo-ionization detector.  
 Indicates samples selected for laboratory analysis.  
 Date Drilled 4 / 18 / 01

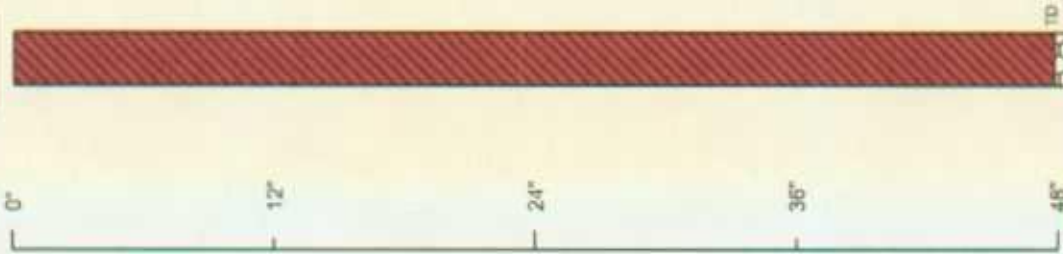
## Soil Description

Petroleum Odor  
 Petroleum Stain

PID Reading

Soil Columns

Depth (inches)



Sand - (SM) - Brown, Very Fine to Fine Grained, Well Sorted, Dry with Caliche Nodules.

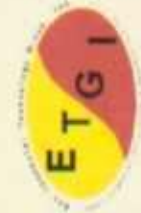
Caliche Layer (Hard)

Soil Boring Log Details  
 GP-020

EOTT Energy Pipeline, LP Darr Angell #4

Lea County, NM

Environmental Technology  
 Group, Inc.



Scale: NTIS  
 April 23, 2001  
 PID By: JDU  
 Checked By: KC  
 ETP Project #: EOT2079C

# GP-021

**Legend**  
 PID Head-space reading in ppm obtained with a photo-ionization detector.  
 Indicates samples selected for laboratory analysis.  
 Date Drilled 4 / 18 / 01

## Soil Description

Petroleum Odor  
 Petroleum Stain

PID Reading

Soil Columns

Depth (inches)



Soil Boring Log Details  
 GP-021

EOTT Energy Pipeline, LP Darr Angell #4

Lea County, NM



Environmental Technology  
 Group, Inc.

State: NTG Prep By: JGJ Checked By: KD  
 April 23, 2001 ETGI Project #: EOTT201SC

# GP-022

**Legend**  
 PID Head-space reading in ppm obtained with a photo-ionization detector  
 Indicates samples selected for laboratory analysis.  
 Date Drilled 4 / 18 / 01

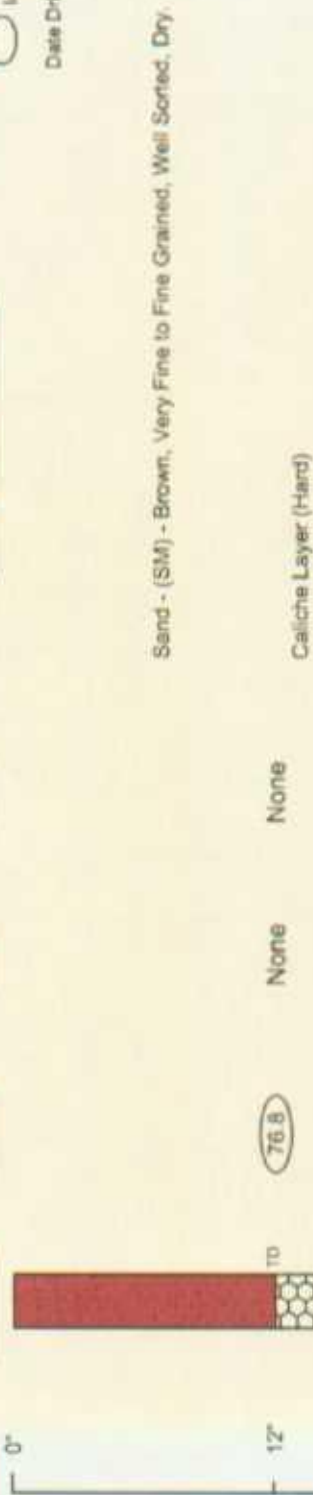
## Soil Description

Petroleum Odor  
 Petroleum Stain

PID Reading

Soil Columns

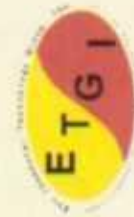
Depth (inches)



Soil Boring Log Details  
 GP-022

EOTT Energy Pipeline, LP Darr Angell #4

Lea County, NM



Environmental Technology  
 Group, Inc.

Blank NTS  
 April 23, 2001  
 Prep By: JDU  
 Checked By: KC  
 ETTG Project #: EOTT2010C



# GP-023

**Legend**  
 PID Head-space reading in ppm obtained with a photo-ionization detector.  
 Indicates samples selected for laboratory analysis.

Date Drilled 4 / 18 / 01

## Soil Description

Petroleum Odor  
 Petroleum Stain

PID Reading

Soil Columns

Depth (inches)



Soil Boring Log Details  
 GP-023

EOTT Energy Pipeline, LP Darr Angell #4

Lea County, NM



Environmental Technology  
 Group, Inc.

Scale: NTS  
 April 23, 2001  
 Prep By: JCU  
 Checked By: MD  
 ETOI Project #: EOT2075C

# GP-024

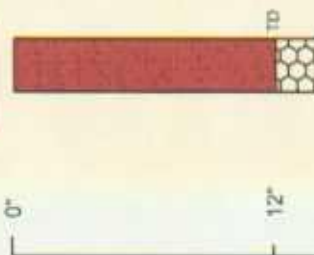
**Legend**  
 PID Head-space reading in ppm obtained with a photo-ionization detector.  
 Indicates samples selected for laboratory analysis.  
 Date Drilled 4 / 18 / 01

## Soil Description

Petroleum Odor  
 Petroleum Stain  
 PID Reading

Soil Columns

Depth (inches)



Sand - (SM) - Brown, Very Fine to Fine Grained, Well Sorted, Dry.

None

99.3

TD

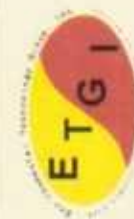
Caliche Layer (Hard)

Soil Boring Log Details  
 GP-024

EOTT Energy Pipeline, LP Darr Angell #4

Lea County, NM

Environmental Technology  
 Group, Inc.



Scale NTS  
 April 23, 2001  
 Prep By: JCU  
 Checked By: KD  
 ETO Project #: EOT2075C

# GP-025

**Legend**  
 PID Head space reading in ppm obtained with a photo-ionization detector.  
 Indicates samples selected for laboratory analysis.  
 Date Drilled 4 / 18 / 01

## Soil Description

Petroleum Odor  
 Petroleum Stain

PID Reading

Soil Columns

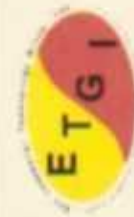
Depth (inches)



Soil Boring Log Details  
 GP-025

EOTT Energy Pipeline, LP Darr Angell #4

Lea County, NM



Environmental Technology  
 Group, Inc.

Boiler #19 Prep By JCU Checked By KD  
 April 23, 2001 ETOB Project # EOT2001C

# GP-026

**Legend**  
 PID Head-space reading in ppm obtained with a photo-ionization detector.  
 ○ Indicates samples selected for laboratory analysis.  
 Date Drilled 4 / 18 / 01

## Soil Description

Petroleum Odor  
 Petroleum Stain

PID Reading

Soil Columns

Depth (inches)



0" 12" 24" 36" 48"

Sand - (SM) - Brown, Very Fine to Fine Grained, Well Sorted, Dry.

Caliche Layer (Hard)

None

None

159

TD

Soil Boring Log Details  
 GP-026

EOTT Energy Pipeline, LP Darr Angell #4

Lea County, NM



Environmental Technology  
 Group, Inc.

Scale: NTS  
 April 23, 2001  
 Prep By: JDU  
 Checked By: KQ  
 ETO Project # EOT207SC

# GP-027

**Legend**  
 PID Head-space reading in ppm obtained with a photo-ionization detector.  
 Indicates samples selected for laboratory analysis.  
 Date Drilled 4 / 18 / 01

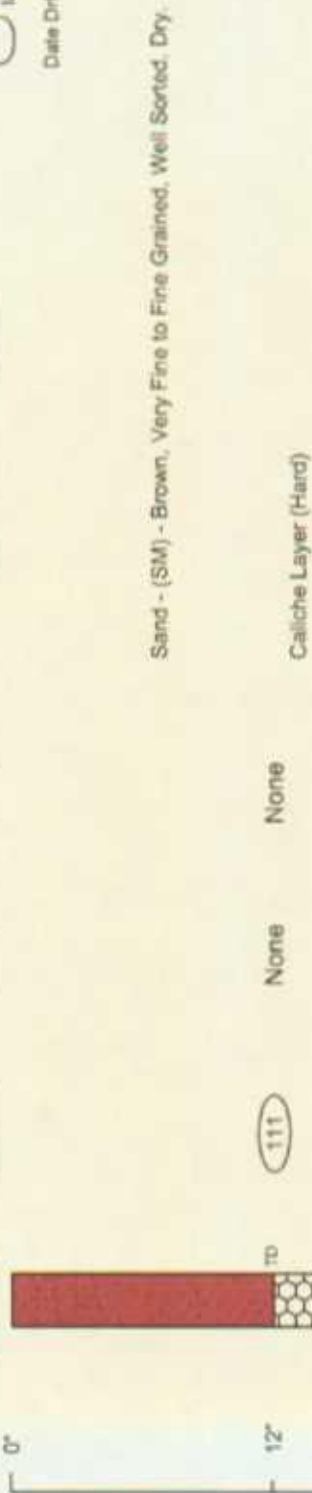
## Soil Description

Petroleum Odor  
 Petroleum Stain

PID Reading

Soil Columns

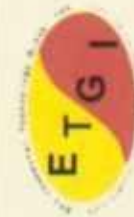
Depth (inches)



Soil Boring Log Details  
 GP-027

EOTT Energy Pipeline, LP Darr Angell #4

Lea County, NM



Environmental Technology  
 Group, Inc.

Scale: NTS  
 April 23, 2001  
 Prep By: JDU  
 Checked By: RD  
 ETO: Project # EOTT201MC



# GP-028

**Legend**  
 PID Head-space reading in ppm obtained with a photo-ionization detector.  
 Indicates samples selected for laboratory analysis.  
 Date Drilled 4 / 18 / 01

## Soil Description

Petroleum Odor  
 Petroleum Stain

PID Reading

Soil Columns

Depth (inches)

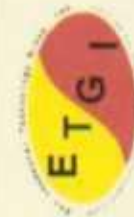


None  
 None  
 109  
 Caliche Layer (Hard)

Soil Boring Log Details  
 GP-028

EOTT Energy Pipeline, LP Darr Angell #4

Lea County, NM



Environmental Technology  
 Group, Inc.

Scale: NTS  
 April 23, 2001  
 Prep By: JDU  
 Checked By: KO  
 ETPG Project #: EOT2073C

# GP-029

**Legend**  
 PID Head-space reading in ppm obtained with a photo-ionization detector.  
 Indicates samples selected for laboratory analysis.  
 Date Drilled 4 / 18 / 01

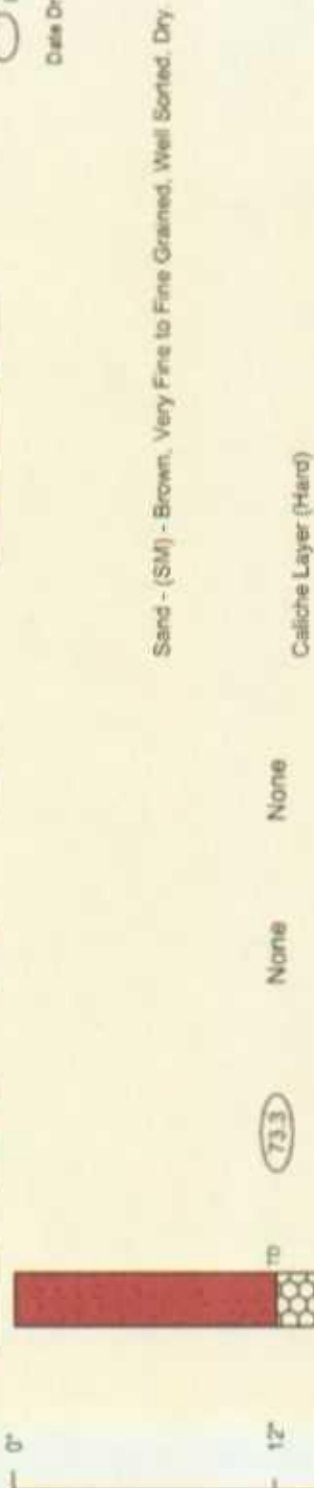
## Soil Description

Petroleum Odor  
 Petroleum Stain

PID Reading

Soil Columns

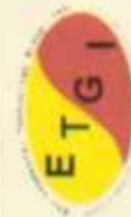
Depth (inches)



Soil Boring Log Details  
 GP-029

EOTT Energy Pipeline, LP Darr Angell #4

Lea County, NM



Environmental Technology  
 Group, Inc.

Scale: NTS  
 April 23, 2001  
 Prep By: JGU  
 Checked By: KQ  
 ETTG Project # E072013C

# GP-030

**Legend**  
 PID Head-space reading in ppm obtained with a photo-ionization detector.  
 Indicates samples selected for laboratory analysis.  
 Date Drilled 4 / 18 / 01

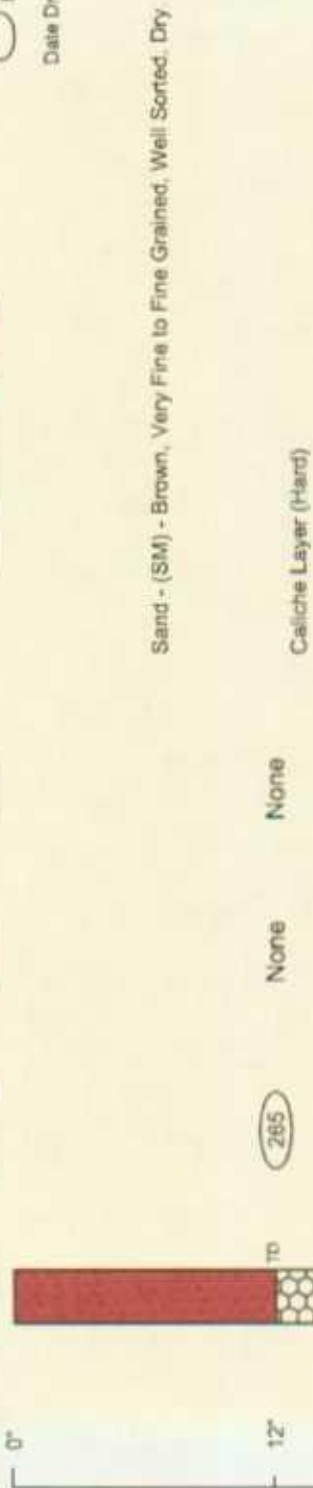
## Soil Description

Petroleum Odor  
 Petroleum Stain

PID Reading

Soil Columns

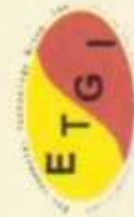
Depth (inches)



Soil Boring Log Details  
 GP-030

EOTT Energy Pipeline, LP Darr Angell #4

Lea County, NM



Environmental Technology  
 Group, Inc.

Scale: NTS  
 April 23, 2001  
 Prep By: JGJ  
 Checked By: AD  
 ETOA Project #: EOT72079C



# GP-031

**Legend**  
 PID Head-space reading in ppm obtained with a photo-ionization detector.  
 Indicates samples selected for laboratory analysis.  
 Date Drilled 4 / 18 / 01

## Soil Description

Petroleum Odor  
 Petroleum Stain

PID Reading

Soil Columns

Depth (inches)



Sand - (SM) - Brown, Very Fine to Fine Grained, Well Sorted, Dry.

Soft Caliche Layer

Caliche Layer (Hard)

786

None

None

Soil Boring Log Details  
 GP-031

EOTT Energy Pipeline, LP Darr Angell #4

Lea County, NM

Environmental Technology  
 Group, Inc.



Scale NTS  
 April 23, 2001  
 Prep By: JDU  
 Checked By: KO  
 ETOE Project # EOT2075C

# GP-032

**Legend**  
 PID Head-space reading in ppm obtained with a photo-ionization detector.  
 Indicates samples selected for laboratory analysis.  
 Date Drilled 4 / 18 / 01

## Soil Description

Petroleum Odor  
 Petroleum Stain

PID Reading

Soil Columns

Depth (inches)



Caliche Layer (Hard)

None

None

75.8

Sand - (SM) - Brown, Very Fine to Fine Grained, Well Sorted, Dry.

Soil Boring Log Details  
 GP-032

EOTT Energy Pipeline, LP Darr Angell #4

Lea County, NM



Environmental Technology  
 Group, Inc.

Scale: NTS  
 April 23, 2001  
 Prep By: JDU  
 Checked By: RD  
 ETOI Project # EOT2075C

# GP-033

**Legend**  
 PID Head-space reading in ppm obtained with a photo-ionization detector.  
 Indicates samples selected for laboratory analysis.  
 Date Drilled 4 / 18 / 01

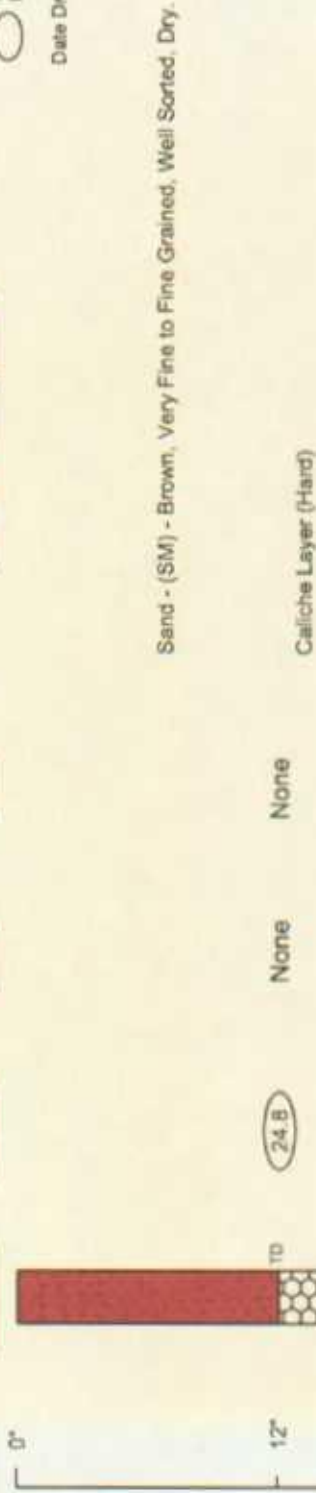
## Soil Description

Petroleum Odor  
 Petroleum Stain

PID Reading

Soil Columns

Depth (inches)



Soil Boring Log Details  
 GP-033

EOTT Energy Pipeline, LP Darr Angell #4

Lea County, NM



Environmental Technology  
 Group, Inc.

Scale: NTS  
 April 23, 2001  
 Prep By: JDU  
 Checked By: KQ  
 ETP Project #: EOT2075C

# GP-034

**Legend**  
 PID Head-space reading in ppm obtained with a photo-ionization detector  
 Indicates samples selected for laboratory analysis.  
 Date Drilled 4 / 18 / 01

## Soil Description

Petroleum Odor  
 Petroleum Stain

PID Reading

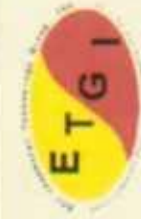
Soil Columns

Depth (inches)



Soil Boring Log Details  
 GP-034

EOTT Energy Pipeline, LP Darr Angell #4 Lea County, NM



Environmental Technology  
 Group, Inc.

Scale NTS  
 April 23, 2001  
 Prep By: JGU  
 Checked By: KC  
 ETOB Project # EOT2073C

# GP-035

**Legend**  
 PID Head-space reading in ppm obtained with a photo-ionization detector.  
 Indicates samples selected for laboratory analysis.

Date Drilled 4 / 18 / 01

## Soil Description

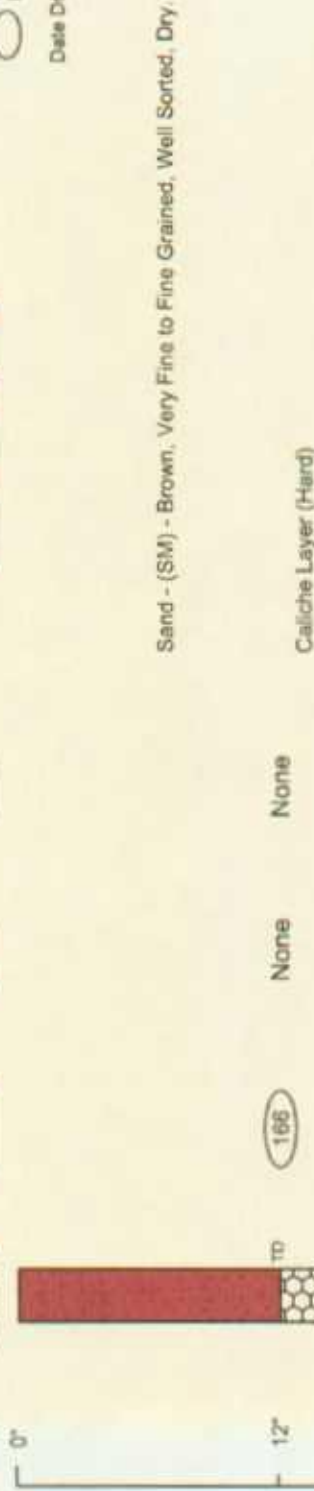
Petroleum Stain

Petroleum Odor

PID Reading

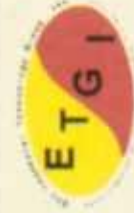
Soil Columns

Depth (Inches)



Soil Boring Log Details  
 GP-035

Environmental Technology  
 Group, Inc.



Lea County, NM

Darr Angell #4

EOTT Energy Pipeline, LP

Scale NTS  
 April 23, 2001  
 Prep By: JCU  
 Checked By: KD  
 ETOI Project # EOT2075C



# GP-036

## Legend

PID Head-space reading in ppm obtained with a photo-ionization detector.  
 ○ Indicates samples selected for laboratory analysis.

Date Drilled 4 / 18 / 01

## Soil Description

Petroleum Odor  
 Petroleum Stain

PID Reading

Soil Columns

Depth (inches)



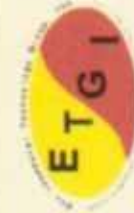
None  
 None  
 Caliche Layer (Hard)

Sand - (SM) - Brown, Very Fine to Fine Grained, Well Sorted, Dry.

19.0

TD

Soil Boring Log Details  
 GP-036



Environmental Technology Group, Inc.

EOTT Energy Pipeline, LP Darr Angell #4

Lea County, NM

Scale: NTS  
 April 23, 2001  
 Prep By: JGJ  
 Checked By: MC  
 ETO: Project # EOT201AC

# GP-037

**Legend**  
 PID Head-space reading in ppm obtained with a photo-ionization detector.  
 Indicates samples selected for laboratory analysis.  
 Date Drilled 4 / 18 / 01

## Soil Description

Petroleum Odor  
 Petroleum Stain

PID Reading

Soil Columns

Depth (inches)



Soil Boring Log Details  
 GP-037

EOTT Energy Pipeline, LP Darr Angell #4

Lea County, NM



Environmental Technology  
 Group, Inc.

Scale: NTS  
 April 23, 2001  
 Prep By: JCU  
 Checked By: KQ  
 ETS Project # EOT2073C

# GP-038

**Legend**  
 PID Head-space reading in ppm obtained with a photo-ionization detector.  
 Indicates samples selected for laboratory analysis.  
 Date Drilled 4 / 18 / 01

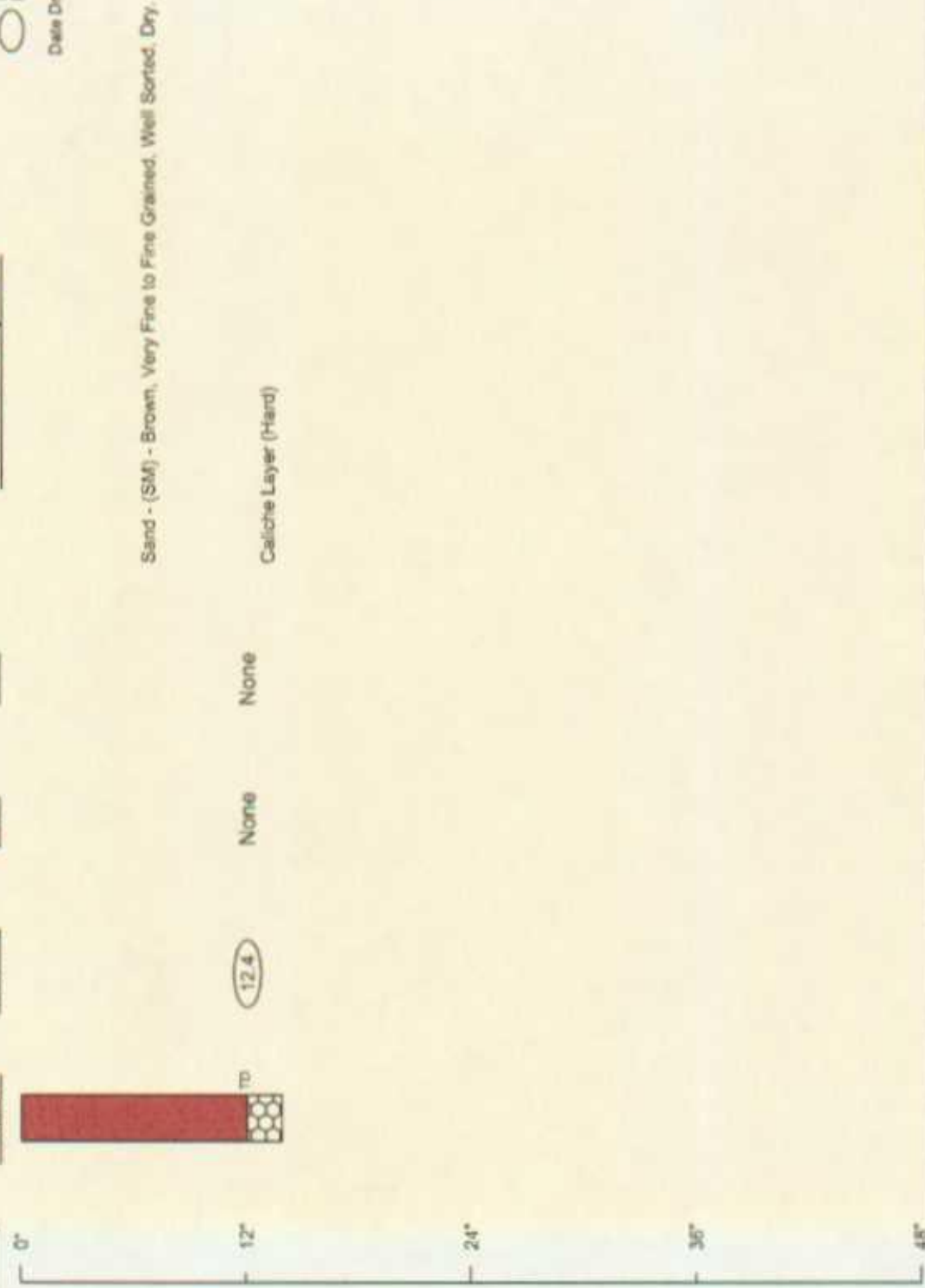
## Soil Description

Petroleum Odor  
 Petroleum Stain

PID Reading

Soil Columns

Depth (inches)



Soil Boring Log Details  
 GP-038



Environmental Technology  
 Group, Inc.

EOTT Energy Pipeline, LP Darr Angell #4 Lea County, NM

Scale NTS  
 April 23, 2001  
 Prep By: JCU  
 Checked By: KD  
 ETGI Project #: EOT2075C



GP-039

**Legend**  
 PID Head-space reading in ppm obtained with a photo-ionization detector.  
 Indicates samples selected for laboratory analysis.  
 Date Drilled 4 / 18 / 01

Soil Description

Petroleum Odor      Petroleum Stain

PID Reading

Soil Columns

Depth (inches)

0"      12"      24"      36"      48"

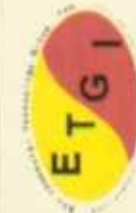


Sand - (SM) - Brown, Very Fine to Fine Grained, Well Sorted, Dry.

Caliche Layer (Hard)

21.4

Soil Boring Log Details  
GP-039



Environmental Technology Group, Inc.

EOTT Energy Pipeline, LP Darr Angell #4

Lea County, NM

Scale: NTS  
 April 23, 2001  
 Prep By: JOL  
 Checked By: RD  
 ETOG Project #: EOT2073C

# GP-040

**Legend**  
 PID Head-space reading in ppm obtained with a photo-ionization detector  
 Indicates samples selected for laboratory analysis.

Date Drilled 4 / 18 / 01

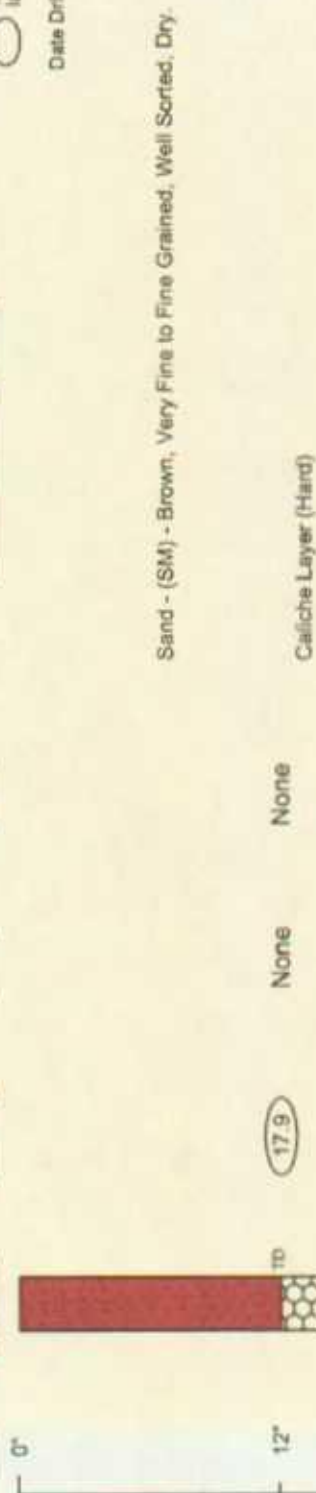
## Soil Description

Petroleum Odor  
 Petroleum Stain

PID Reading

Soil Columns

Depth (inches)



Soil Boring Log Details  
 GP-040

EOTT Energy Pipeline, LP Darr Angell #4

Lea County, NM



Environmental Technology  
 Group, Inc.

Book: NTS  
 April 23, 2001  
 Prep By: JDU  
 Checked By: KD  
 ETD Project #: E012079C

# GP-041

**Legend**  
 PID Head-space reading in ppm obtained with a photo-ionization detector.  
 Indicates samples selected for laboratory analysis.  
 Date Drilled 4 / 18 / 01

## Soil Description

Petroleum Odor  
 Petroleum Stain

PID Reading

Soil Columns

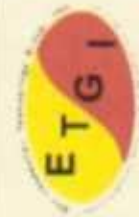
Depth (inches)



Soil Boring Log Details  
 GP-041

EOTT Energy Pipeline, LP Darr Angell #4

Lea County, NM



Environmental Technology  
 Group, Inc.

Scale: NTS  
 April 23, 2001  
 Prep By: JDU  
 Checked By: KD  
 ETOG Project #: EOT207SC

# GP-042

## Legend

PID Head-space reading in ppm obtained with a photo-ionization detector.  
 ○ Indicates samples selected for laboratory analysis.

Date Drilled 4 / 18 / 01

### Soil Description

### Petroleum Stain

### Petroleum Odor

### PID Reading

### Soil Columns

### Depth (inches)

Sand - (SM) - Brown, Very Fine to Fine Grained, Well Sorted, Dry.

Caliche Layer (Hard)

None

None

24.2

TD

12"

24"

36"

48"

Soil Boring Log Details  
GP-042

Environmental Technology  
Group, Inc.



EOTT Energy Pipeline, LP Darr Angell #4

Lea County, NM

Scale: NTS  
April 23, 2001  
Prep By: JJJ  
Checked By: KO  
ETGI Project # EOT207SC

# GP-043

**Legend**  
 PID Head-space reading in ppm obtained with a photo-ionization detector.  
 Indicates samples selected for laboratory analysis.  
 Date Drilled 4 / 16 / 01

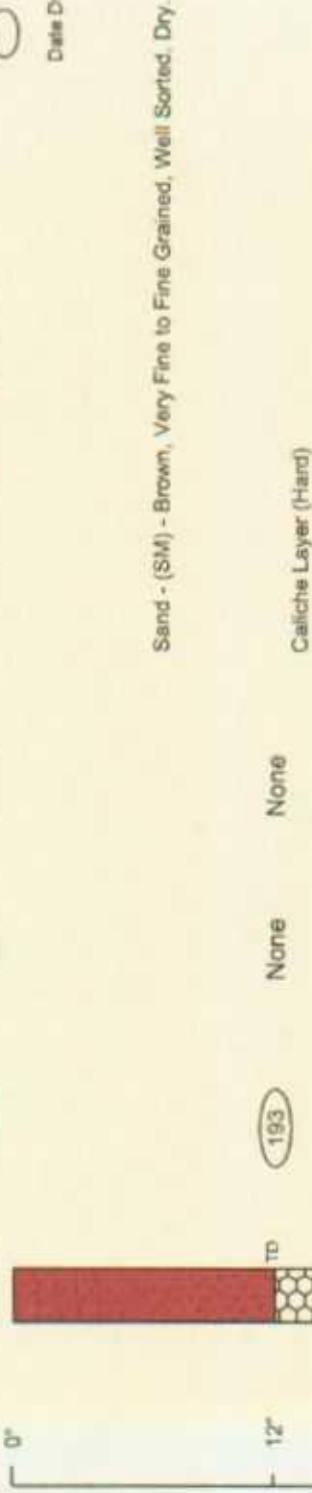
## Soil Description

Petroleum Odor  
 Petroleum Stain

PID Reading

Soil Columns

Depth (inches)



Soil Boring Log Details  
 GP-043

EOTT Energy Pipeline, LP Darr Angell #4

Lea County, NM



Environmental Technology  
 Group, Inc.

Scale: NTS  
 April 23, 2001  
 Prep By: JLU  
 Checked By: ND  
 ETO: Project # EOT207SC



# GP-044

| Depth (inches) | Soil Columns                                                                         | PID Reading                                                                           | Petroleum Odor | Petroleum Stain | Soil Description                                                  |
|----------------|--------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|----------------|-----------------|-------------------------------------------------------------------|
| 0"             |  |  | None           | None            | Sand - (SM) - Brown, Very Fine to Fine Grained, Well Sorted, Dry. |
| 12"            |                                                                                      |                                                                                       |                |                 |                                                                   |
| 24"            |                                                                                      |                                                                                       |                |                 |                                                                   |
| 36"            |                                                                                      |                                                                                       |                |                 |                                                                   |
| 48"            |                                                                                      |                                                                                       |                |                 |                                                                   |

**Legend**  
 PID Head-space reading in ppm obtained with a photo-ionization detector.  
 Indicates samples selected for laboratory analysis.

Date Drilled 4 / 18 / 01

Sand - (SM) - Brown, Very Fine to Fine Grained, Well Sorted, Dry.

Caliche Layer (Hard)

Soil Boring Log Details  
GP-044

Environmental Technology Group, Inc.



EOTT Energy Pipeline, LP Darr Angell #4

Lea County, NM

|                |                         |               |
|----------------|-------------------------|---------------|
| Scale NTS      | Prep By JDU             | Checked By KD |
| April 23, 2001 | ETGI Project # EOT2001C |               |

# GP-045

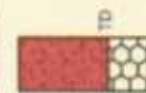
**Legend**  
 PID Head-space reading in ppm obtained with a photo-ionization detector.  
 Indicates samples selected for laboratory analysis.  
 Date Drilled 4 / 18 / 01

## Soil Description

Petroleum Odor  
 Petroleum Stain

PID Reading

Soil Columns



Sand - (SC) - Red, Very Fine Grained, Well Sorted.

Caliche Layer (Hard)

1064

Depth (inches)



Soil Boring Log Details  
 GP-045

EOTT Energy Pipeline, LP Darr Angell #4

Lea County, NM

Environmental Technology  
 Group, Inc.



Scale: NTS  
 April 23, 2001  
 Prep By: JLI  
 Checked By: KD  
 ETOG Project # EOT2010C

# GP-046

**Legend**  
 PID Head-space reading in ppm obtained with a photo-ionization detector  
 Indicates samples selected for laboratory analysis  
 Date Drilled 4 / 18 / 01

**Soil Description**  
 Sand - (STM) - Brown, Very Fine to Fine Grained, Well Sorted, Dry.  
 Caliche Layer (Hard)

**Petroleum Odor** None  
**Petroleum Stain** None  
**PID Reading** 203

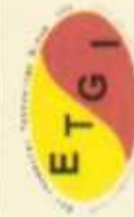
**Soil Columns**  
 TO



Soil Boring Log Details  
 GP-046

Lea County, NM

EOTT Energy Pipeline, LP Darr Angell #4



Environmental Technology  
 Group, Inc.

State: NTS  
 April 23, 2001  
 Prep By: JGU  
 Checked By: KQ  
 ETTG Project #: ETTG0101



# GP-047

**Legend**  
 PID Head-space reading in ppm obtained with a photo-ionization detector.  
 Indicates samples selected for laboratory analysis.

Date Drilled 4 / 18 / 01

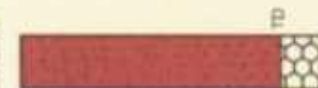
## Soil Description

Petroleum Odor  
 Petroleum Stain

PID Reading

Soil Columns

Depth (inches)



Sand - (SM) - Brown, Very Fine to Fine Grained, Well Sorted, Dry.

Caliche Layer (Hard)

None

None

94.1

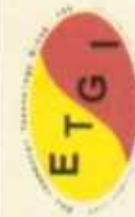
12"

24"

36"

48"

Soil Boring Log Details  
 GP-047



Environmental Technology Group, Inc.

Lea County, NM

Darr Angell #4

EOTT Energy Pipeline, LP

Book NTS  
 April 23, 2001  
 Prep By: JDU  
 Checked By: ND  
 ETOG Project #: EOT207NC

# GP-048

Legend  
 PID Head-space reading in ppm obtained with a photo-ionization detector.  
 Indicates samples selected for laboratory analysis.

Date Drilled 4 / 18 / 01

## Soil Description

Petroleum Odor  
 Petroleum Stain

PID Reading

Soil Columns

Depth (inches)



Soil Boring Log Details  
 GP-048

EOTT Energy Pipeline, LP Darr Angell #4

Lea County, NM



Environmental Technology  
 Group, Inc.

Book NTG Prep By JCU Checked By KD  
 April 23, 2001 ETOB Project # EOT2073C

# GP-049

**Legend**  
 PID Head-space reading in ppm obtained with a photo-ionization detector.  
 Indicates samples selected for laboratory analysis.  
 Date Drilled 4 / 18 / 01

## Soil Description

Petroleum Stain

Petroleum Odor

PID Reading

Soil Columns

Depth (inches)

Sand - (SM) - Brown, Very Fine to Fine Grained, Well Sorted, Dry.

Caliche Layer (Hard)

None

None

34.0

TD

12"

24"

36"

48"

Soil Boring Log Details  
 GP-049

EOTT Energy Pipeline, LP Darr Angell #4

Lea County, NM



Environmental Technology Group, Inc.

Scale: NTS  
 April 23, 2001  
 Prep By: JDU  
 Checked By: MD  
 ETGI Project #: EOT2075C

**APPENDIX D**  
**LABORATORY REPORTS**

# ENVIRONMENTAL LAB OF , INC.

"Don't Treat Your Soil Like Dirt!"

ENVIRONMENTAL TECHNOLOGY GROUP, INC.

ATTN: BETH ALDRICH

2540 W. MARLAND

HOBBS, N.M. 88240

FAX: 505-397-4701

FAX: 915-520-4310

Sample Type: Soil

Sample Condition: Intact/ loosed/ 27 deg. F

Project #: EOT 2059C

Project Name: DARR ANGELL #3

Project Location: Lea County, N.M.

Sampling Date: See Below

Receiving Date: 07/10/00

Analysis Date: 07/12/00

| ELT#  | FIELD CODE    | GRO<br>C6-C10<br>mg/kg | DRO<br>>C10-C28<br>mg/kg | Sample<br>Date |
|-------|---------------|------------------------|--------------------------|----------------|
| 27878 | SB-1 3-5°C    | <10                    | <10                      | 07/03/00       |
| 27879 | SB-1 8-10°C   | <10                    | <10                      | 07/03/00       |
| 27880 | SB-1 13-15°C  | <10                    | <10                      | 07/03/00       |
| 27881 | SB-1 18-20°C  | <10                    | <10                      | 07/03/00       |
| 27882 | SB-1 23-25°C  | <10                    | <10                      | 07/03/00       |
| 27883 | SB-1 28-30°SS | <10                    | <10                      | 07/03/00       |
| 27884 | SB-1 33-35°C  | <10                    | <10                      | 07/03/00       |
| 27885 | SB-1 38-40°SS | <10                    | <10                      | 07/03/00       |
| 27886 | SB-1 43-45°SS | <10                    | <10                      | 07/03/00       |
| 27887 | SB-1 48-50°SS | <10                    | <10                      | 07/03/00       |
| 27888 | SB-1 53-55°SS | <10                    | <10                      | 07/03/00       |
| 27889 | SB-1 58-60°SS | <10                    | <10                      | 07/03/00       |
| 27890 | SB-2 0-2°C    | <10                    | <10                      | 07/05/00       |
| 27891 | SB-2 3-5°C    | <10                    | <10                      | 07/05/00       |
| 27892 | SB-2 8-10°C   | <10                    | <10                      | 07/05/00       |
| 27893 | SB-2 13-15°C  | <10                    | <10                      | 07/05/00       |
| 27894 | SB-2 18-20°C  | <10                    | <10                      | 07/05/00       |
| 27895 | SB-2 23-25°C  | <10                    | <10                      | 07/05/00       |
| 27896 | SB-2 28-30°SS | <10                    | <10                      | 07/05/00       |
|       | % IA          | 95                     | 104                      |                |
|       | % EA          | 105                    | 113                      |                |
|       | BLANK         | <10                    | <10                      |                |

METHODS: SW 846-8015M GRO/DRO

*Barbara K. Tuttle*

Barbara K. Tuttle

*7-31-00*

Date

# ENVIRONMENTAL LAB OF , INC.

"Don't Treat Your Soil Like Dirt!"

ENVIRONMENTAL TECHNOLOGY GROUP, INC.  
ATTN: BETH ALDRICH  
2540 W. MARLAND  
HOBBS, N.M. 88240  
FAX: 505-397-4701  
FAX: 915-520-4310

Sample Type: Soil  
Sample Condition: Intact/ Iced/ 27 deg. F  
Project #: EOT 2059C  
Project Name: DARR ANGELL #3  
Project Location: Lea County, N.M.

Sampling Date: See Below  
Receiving Date: 07/10/00  
Analysis Date: 07/13/00

| SLT#  | FIELD CODE    | GRO<br>C6-C10<br>mg/kg | DRO<br>>C10-C28<br>mg/kg | Sample<br>Date |
|-------|---------------|------------------------|--------------------------|----------------|
| 27897 | SB-2 33-35'C  | <10                    | <10                      | 07/05/00       |
| 27898 | SB-2 38-40'SS | <10                    | <10                      | 07/05/00       |
| 27899 | SB-2 43-45'SS | <10                    | <10                      | 07/05/00       |
| 27900 | SB-2 48-50'SS | <10                    | <10                      | 07/05/00       |
| 27901 | SB-2 53-55'SS | <10                    | <10                      | 07/05/00       |
| 27902 | SB-2 58-60'SS | 562                    | 1007                     | 07/05/00       |
| 27903 | SB-2 63-65'C  | <10                    | <10                      | 07/05/00       |
| 27904 | SB-2 68-70'C  | <10                    | <10                      | 07/05/00       |
| 27905 | SB-3 0-2'C    | <10                    | <10                      | 07/06/00       |
| 27906 | SB-3 3-5'C    | <10                    | <10                      | 07/06/00       |
| 27907 | SB-3 8-10'C   | <10                    | <10                      | 07/06/00       |
| 27908 | SB-3 13-15'C  | <10                    | <10                      | 07/06/00       |
| 27909 | SB-3 18-20'C  | <10                    | <10                      | 07/06/00       |
| 27910 | SB-3 23-25'C  | <10                    | <10                      | 07/06/00       |
| 27911 | SB-3 28-30'C  | <10                    | <10                      | 07/06/00       |
| 27912 | SB-3 33-35'C  | <10                    | <10                      | 07/06/00       |
| 27913 | SB-3 38-40'C  | <10                    | <10                      | 07/06/00       |
| 27914 | SB-3 43-45'C  | <10                    | <10                      | 07/06/00       |
| 27915 | SB-3 48-50'C  | <10                    | <10                      | 07/08/00       |
| 27916 | SB-3 53-55'C  | <10                    | <10                      | 07/06/00       |
| % IA  |               | 92                     | 98                       |                |
| % EA  |               | 104                    | 114                      |                |
| BLANK |               | <10                    | <10                      |                |

METHODS: SW 846-8015M GRO/DRO

Roland K. Tuttle  
Roland K. Tuttle

7-21-00  
Date

# ENVIRONMENTAL LAB OF , INC.

"Don't Treat Your Soil Like Dirt!"

ENVIRONMENTAL TECHNOLOGY GROUP, INC.  
ATTN: BETH ALDRICH  
2540 W. MARLAND  
HOBBS, N.M. 88240  
FAX: 505-397-4701  
FAX: 915-520-4310

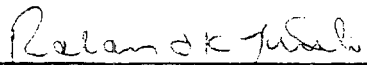
Sample Type: Soil  
Sample Condition: Intact/ loosed/ 27 deg. F  
Project #: EOT 2059C  
Project Name: DARR ANGELL #3  
Project Location: Lea County, N.M.

Sampling Date: 07/06/00  
Receiving Date: 07/10/00  
Analysis Date: 07/14/00

| ELT#  | FIELD CODE        | GRO             | DRO               |
|-------|-------------------|-----------------|-------------------|
|       |                   | C6-C10<br>mg/kg | >C10-C28<br>mg/kg |
| 27917 | SB-3 58-60' (S/S) | <10             | <10               |
| 27918 | SB-4 0-2' (C)     | <10             | <10               |
| 27919 | SB-4 3-5' (C)     | <10             | <10               |
| 27920 | SB-4 8-10' (C)    | <10             | <10               |
| 27921 | SB-4 13-15' (C)   | <10             | <10               |
| 27922 | SB-4 18-20' (C)   | <10             | <10               |
| 27923 | SB-4 23-25' (C)   | <10             | <10               |
| 27924 | SB-4 28-30' (C)   | <10             | <10               |
| 27925 | SB-4 33-35' (C)   | <10             | <10               |
| 27926 | SB-4 38-40' (C)   | <10             | <10               |
| 27927 | SB-4 43-45' (C)   | <10             | <10               |
| 27928 | SB-4 48-50' (C)   | <10             | <10               |
| 27929 | SB-4 53-55' (C)   | <10             | <10               |

|       |     |     |
|-------|-----|-----|
| % IA  | 92  | 98  |
| % EA  | 124 | 126 |
| BLANK | <10 | <10 |

METHODS: SW 846-3015M GRC/DRC

  
Ralanda K. Tuttle

7-21-00  
Date

# ENVIRONMENTAL LAB OF , INC.

"Don't Treat Your Soil Like Dirt!"

ENVIRONMENTAL TECHNOLOGY GROUP, INC.

ATTN: BETH ALDRICH

2540 W. MARLAND

HOBBS, N.M. 88240

FAX: 505-397-4701

FAX: 915-520-4310

Sample Type: Soil

Sample Condition: Intact/ loosed/ 27 deg. F

Project #: EOT 2059C

Project Name: DARR ANGELL #3

Project Location: Lea County, N.M.

Sampling Date: See Below

Receiving Date: 07/10/00

Analysis Date: 07/14/00

| ELT#  | FIELD CODE        | GRO<br>C6-C10<br>mg/kg | DRO<br>>C10-C28<br>mg/kg | SAMPLE<br>DATE |
|-------|-------------------|------------------------|--------------------------|----------------|
| 27930 | SB-4 58-60' (S/S) | <10                    | 137                      | 07/06/00       |
| 27931 | SB-5 0-2' (C)     | <10                    | <10                      | 07/07/00       |
| 27932 | SB-5 3-5' (C)     | <10                    | <10                      | 07/07/00       |
| 27933 | SB-5 8-10' (C)    | <10                    | <10                      | 07/07/00       |
| 27934 | SB-5 13-15' (C)   | <10                    | <10                      | 07/07/00       |
| 27935 | SB-5 18-20' (C)   | <10                    | <10                      | 07/07/00       |
| 27936 | SB-5 23-25' (C)   | <10                    | <10                      | 07/07/00       |
| 27937 | SB-5 28-30' (C)   | <10                    | <10                      | 07/07/00       |
| 27938 | SB-5 33-35' (C)   | <10                    | <10                      | 07/07/00       |
| 27939 | SB-5 38-40' (C)   | <10                    | <10                      | 07/07/00       |
| 27940 | SB-5 43-45' (C)   | <10                    | <10                      | 07/07/00       |
| 27941 | SB-5 48-50' (C)   | <10                    | <10                      | 07/07/00       |
| 27942 | SB-5 53-55' (C)   | <10                    | <10                      | 07/07/00       |
| 27943 | SB-5 58-60' (S/S) | <10                    | <10                      | 07/07/00       |
| 27944 | SB-6 0-2' (C)     | <10                    | <10                      | 07/07/00       |
| 27945 | SB-6 3-5' (C)     | <10                    | <10                      | 07/07/00       |
| 27946 | SB-6 8-10' (C)    | <10                    | <10                      | 07/07/00       |
| 27947 | SB-6 13-15' (C)   | <10                    | <10                      | 07/07/00       |
| 27948 | SB-6 18-20' (C)   | <10                    | <10                      | 07/07/00       |
| 27949 | SB-6 23-25' (C)   | <10                    | <10                      | 07/07/00       |
| 27950 | SB-6 28-30' (C)   | <10                    | <10                      | 07/07/00       |
| 27951 | SB-6 33-35' (C)   | <10                    | <10                      | 07/07/00       |
| 27952 | SB-6 38-40' (C)   | <10                    | <10                      | 07/07/00       |
| 27953 | SB-6 43-45' (C)   | <10                    | <10                      | 07/07/00       |
| 27954 | SB-6 48-50' (C)   | <10                    | <10                      | 07/07/00       |
| % IA  |                   | 90                     | 103                      |                |
| % EA  |                   | 123                    | 124                      |                |
| BLANK |                   | <10                    | <10                      |                |

METHODS: BW 346-3015M GFC/DRC

Beth Aldrich  
Brenda K. Tule

7-21-00  
Date



# ENVIRONMENTAL LAB OF , INC.

"Don't Treat Your Soil Like Dirt!"

ENVIRONMENTAL TECHNOLOGY GROUP, INC.  
ATTN: BETH ALDRICH  
2540 W. MARLAND  
HOBBS, N.M. 88240  
FAX: 505-397-4701  
FAX: 915-520-4310

SampleType: Soil  
Sample Condition: Intact/ loam/ 27 deg. F  
Project #: EOT 2059C  
Project Name: DARR ANGELL #3  
Project Location: Lea County, N.M.

Sampling Date: 07/07/00  
Receiving Date: 07/10/00  
Analysis Date: 07/14/00

| ELT#  | FIELD CODE        | GRO             | DRO               |
|-------|-------------------|-----------------|-------------------|
|       |                   | C5-C10<br>mg/kg | >C10-C28<br>mg/kg |
| 27955 | SB-6 53-55' (C)   | <10             | <10               |
| 27956 | SB-6 58-60' (S/S) | <10             | <10               |
| 27957 | SB-7 0-2' (C)     | <10             | <10               |
| 27958 | SB-7 3-5' (C)     | <10             | <10               |
| 27959 | SB-7 8-10' (C)    | <10             | <10               |
| 27960 | SB-7 13-15' (C)   | <10             | <10               |
| 27961 | SB-7 18-20' (C)   | <10             | <10               |
| 27962 | SB-7 23-25' (C)   | <10             | <10               |
| 27963 | SB-7 28-30' (C)   | <10             | <10               |
| 27964 | SB-7 33-35' (C)   | <10             | <10               |
| 27965 | SB-7 38-40' (C)   | <10             | <10               |
| 27966 | SB-7 43-45' (C)   | <10             | <10               |
| 27967 | SB-7 48-50' (C)   | <10             | <10               |
| 27968 | SB-7 53-55' (C)   | <10             | <10               |
| 27969 | SB-7 58-60' (S/S) | 87              | 730               |
| 27970 | SB-7 60-62' (S/S) | <10             | <10               |

|       |     |     |
|-------|-----|-----|
| % IA  | 100 | 109 |
| % EA  | 123 | 155 |
| BLANK | <10 | <10 |

METHODS: SW 348-3015M GPC/DRC

Barbara K. Tuttle  
Barbara K. Tuttle

7-21-00  
Date

# ENVIRONMENTAL LAB OF , INC.

"Don't Treat Your Soil Like Dirt!"

ENVIRONMENTAL TECHNOLOGY GROUP, INC.  
ATTN: BETH ALDRICH  
2540 W. MARLAND  
HOBBS, N.M. 88240  
FAX: 915-520-4310  
FAX: 505-397-4701

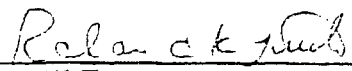
SampleType: Soil  
Sample Condition: Intact/ Iced/ 24 deg. F  
Project #: EOT 2059C  
Project Name: Darr Angell 3  
Project Location: Lea Co., N.M.

Sampling Date: See Below  
Receiving Date: 07/10/00  
Analysis Date: 07/11/00

| ELT#  | FIELD CODE        | BENZENE<br>mg/kg | TOLUENE<br>mg/kg | ETHYLBENZENE<br>mg/kg | m,p-XYLENE<br>mg/kg | o-XYLENE<br>mg/kg | SAMPLE<br>DATE |
|-------|-------------------|------------------|------------------|-----------------------|---------------------|-------------------|----------------|
| 27902 | SB-2 58-60' (S/S) | <0.100           | 7.55             | 3.64                  | 13.4                | 4.71              | 07/05/00       |
| 27930 | SB-4 58-60' (S/S) | <0.100           | 0.739            | 0.530                 | 2.51                | 0.939             | 07/06/00       |
| 27969 | SB-7 60-62' (S/S) | <0.100           | <0.100           | <0.100                | 0.158               | <0.100            | 07/07/00       |

|       |        |        |        |        |        |
|-------|--------|--------|--------|--------|--------|
| % IA  | 96     | 92     | 95     | 103    | 96     |
| % EA  | 87     | 87     | 88     | 98     | 86     |
| BLANK | <0.100 | <0.100 | <0.100 | <0.100 | <0.100 |

METHODS: SW 846-8021B.5030

  
Raiaud K. Turtle

7-21-00  
Date

Environmental Lab of Texas, Inc. 12600 West 1-20 East Odessa, Texas 79763  
(915) 563-1800 FAX (915) 563-1713

CHAIN-OF-CUSTODY RECORD AND ANALYSIS REQUEST

COE # 182

Project Manager:

Beth Aldrich

Phone #: (505) 397-4882

FAX #: (505) 397-4701

Company Name & Address:

2570 W. Maryland, Hobbs, NM 88240

Project #:

EOI 2059C

Project Name:

DARA ANGELL 3

Project Location:

180 City, NM

Sampler Signature:

*[Signature]*

| TIME | DATE    | PRESERVATIVE METHOD |      |     |      |       |       | MATRIX |     |        |       |  | # CONTAINERS | VOLUME/AMOUNT | FIELD CODE     |
|------|---------|---------------------|------|-----|------|-------|-------|--------|-----|--------|-------|--|--------------|---------------|----------------|
|      |         | HCL                 | HNO3 | ICE | NONE | OTHER | WATER | SOIL   | AIR | SLUDGE | OTHER |  |              |               |                |
| 1114 | 7/31/01 | X                   |      |     |      |       | X     |        |     |        |       |  | 1            | 40L           | SB-1 35' (C)   |
| 1117 |         | X                   |      |     |      |       |       |        |     |        |       |  |              |               | SB-1 740' (S)  |
| 1120 |         |                     |      |     |      |       |       |        |     |        |       |  |              |               | SB-1 1315' (C) |
| 1122 |         |                     |      |     |      |       |       |        |     |        |       |  |              |               | SB-1 1620' (C) |
| 1133 |         |                     |      |     |      |       |       |        |     |        |       |  |              |               | SB-1 2325' (S) |
| 1152 |         |                     |      |     |      |       |       |        |     |        |       |  |              |               | SB-1 2830' (S) |
| 1255 |         |                     |      |     |      |       |       |        |     |        |       |  |              |               | SB-1 3335' (C) |
| 1306 |         |                     |      |     |      |       |       |        |     |        |       |  |              |               | SB-1 3840' (S) |
| 1322 |         |                     |      |     |      |       |       |        |     |        |       |  |              |               | SB-1 4345' (S) |
| 1348 |         |                     |      |     |      |       |       |        |     |        |       |  |              |               | SB-1 4850' (S) |
| 1410 |         |                     |      |     |      |       |       |        |     |        |       |  |              |               | SB-1 5355' (S) |

TPH ~~181~~ 1815 GRAD 1820  
TCLP Metals Ag As Ba Cd Cr Pb Hg Se  
Total Metals Ag As Ba Cd Cr Pb Hg Se  
TCLP Semi Volatiles  
TDS  
RCI

BTEX 8020/5030

ANALYSIS REQUEST

1 of 9

Relinquished by:

*[Signature]* 7/11/01

Time:

7745

Received by:

*[Signature]*

REMARKS

fax results to ETOI (505)

Relinquished by:

*[Signature]* 7/10/01

Time:

12101

Received by:

*[Signature]*

REMARKS

270F

397-4701

Relinquished by:

*[Signature]*

Time:

Received by Laboratory:

REMARKS

Bill to EOI

Environmental Lab of Texas, Inc. 12600 West I-20 East Odessa, Texas 79763  
(915) 563-1800 FAX (915) 563-1713

CHAIN-OF-CUSTODY RECORD AND ANALYSIS REQUEST

CC # 182

ANALYSIS REQUEST  
2 of 9

Phone #: (505) 397-4782  
FAX #: (505) 397-4701

Project Manager:

Ruth Aldrich

Project Name:

6126, 2540 W. Maryland, Hobbs, NM 88240

Project Name:

DATA ANGEL 3

Project Location:

1 mi. Ely, NM

Supplier Signature:

*[Signature]*

| FIELD CODE | # CONTAINERS | Volume/Amount | MATRIX |      |     |        | PRESERVATIVE METHOD |     |      |     | SAMPLING |       |
|------------|--------------|---------------|--------|------|-----|--------|---------------------|-----|------|-----|----------|-------|
|            |              |               | WATER  | SOIL | AIR | SLUDGE | OTHER               | HCL | HNO3 | ICE | NONE     | OTHER |
| 27807      | 1            | 1 qt          | X      |      |     |        |                     | X   |      |     |          |       |
| 27808      | 1            | 1 qt          |        |      |     |        |                     |     |      |     |          |       |
| 27809      | 1            | 1 qt          |        |      |     |        |                     |     |      |     |          |       |
| 27810      | 1            | 1 qt          |        |      |     |        |                     |     |      |     |          |       |
| 27811      | 1            | 1 qt          |        |      |     |        |                     |     |      |     |          |       |
| 27812      | 1            | 1 qt          |        |      |     |        |                     |     |      |     |          |       |
| 27813      | 1            | 1 qt          |        |      |     |        |                     |     |      |     |          |       |
| 27814      | 1            | 1 qt          |        |      |     |        |                     |     |      |     |          |       |
| 27815      | 1            | 1 qt          |        |      |     |        |                     |     |      |     |          |       |
| 27816      | 1            | 1 qt          |        |      |     |        |                     |     |      |     |          |       |
| 27817      | 1            | 1 qt          |        |      |     |        |                     |     |      |     |          |       |
| 27818      | 1            | 1 qt          |        |      |     |        |                     |     |      |     |          |       |
| 27819      | 1            | 1 qt          |        |      |     |        |                     |     |      |     |          |       |

REMARKS

For results to (505) 397-4701  
270F

Bill to EOT

Relinquished by:

*[Signature]* Date: 7/16/04

Relinquished by:

*[Signature]* Date: 7/10/00

Relinquished by:

Date:

Received by:

*[Signature]*

Received by:

*[Signature]*

Received by Laboratory:

Date:

Turns:

97505

Turns:

1210

Turns:

Date:

Relinquished by:

*[Signature]* Date: 7/16/04

Relinquished by:

*[Signature]* Date: 7/10/00

Relinquished by:

Date:

Environmental Lab of Texas, Inc. 12600 West I-20 East Odessa, Texas 79763  
(915) 563-1800 FAX (915) 563-1713

CHAIN-OF-CUSTODY RECORD AND ANALYSIS REQUEST  
COC # 182

Phone #: (505) 397-4882  
FAX #: (505) 397-4701

ANALYSIS REQUEST  
3 of 9

Company Name & Address:  
E. COLE, 2540 W. Maryland, Hobbs, NM 88240

Project Name:  
DARR ANGELL 3

Project #: CO72059C

Sampler Signature:  
*Dez DeLeon*

Project Location:  
Ira 612, NM

| FIELD CODE | # CONTAINERS | Volume/Amount | MATRIX |      |     |        | PRESERVATIVE METHOD |     |      |     | SAMPLING |       | BTEX 80120/5031 | TPH  | TCLP Metals Ag As | Total Metals Ag As | TCLP Volatiles | TCLP Sem Volatiles | TDS | PCI |      |
|------------|--------------|---------------|--------|------|-----|--------|---------------------|-----|------|-----|----------|-------|-----------------|---------------------------------------------------------------------------------------|-------------------|--------------------|----------------|--------------------|-----|-----|------|
|            |              |               | WATER  | SOIL | AIR | SLUDGE | OTHER               | HCL | HNO3 | ICE | NONE     | OTHER |                 |                                                                                       |                   |                    |                |                    |     |     | DATE |
| SB 2       | 1            | 14            | X      |      |     |        | X                   |     |      |     |          |       |                 | X                                                                                     |                   |                    |                |                    |     |     |      |
| SB 2       |              |               |        |      |     |        |                     |     |      |     |          |       |                 |                                                                                       |                   |                    |                |                    |     |     |      |
| SB 2       |              |               |        |      |     |        |                     |     |      |     |          |       |                 | X                                                                                     |                   |                    |                |                    |     |     |      |
| SB 2       |              |               |        |      |     |        |                     |     |      |     |          |       |                 |                                                                                       |                   |                    |                |                    |     |     |      |
| SB 2       |              |               |        |      |     |        |                     |     |      |     |          |       |                 |                                                                                       |                   |                    |                |                    |     |     |      |
| SB 3       |              |               |        |      |     |        |                     |     |      |     |          |       |                 |                                                                                       |                   |                    |                |                    |     |     |      |
| SB 3       |              |               |        |      |     |        |                     |     |      |     |          |       |                 |                                                                                       |                   |                    |                |                    |     |     |      |
| SB 3       |              |               |        |      |     |        |                     |     |      |     |          |       |                 |                                                                                       |                   |                    |                |                    |     |     |      |
| SB 3       |              |               |        |      |     |        |                     |     |      |     |          |       |                 |                                                                                       |                   |                    |                |                    |     |     |      |
| SB 3       |              |               |        |      |     |        |                     |     |      |     |          |       |                 |                                                                                       |                   |                    |                |                    |     |     |      |
| SB 3       |              |               |        |      |     |        |                     |     |      |     |          |       |                 |                                                                                       |                   |                    |                |                    |     |     |      |
| SB 3       |              |               |        |      |     |        |                     |     |      |     |          |       |                 |                                                                                       |                   |                    |                |                    |     |     |      |

|                                       |                  |               |                                   |               |                                                   |
|---------------------------------------|------------------|---------------|-----------------------------------|---------------|---------------------------------------------------|
| Relinquished by:<br><i>Dez DeLeon</i> | Date:<br>7/10/00 | Time:<br>9745 | Received by:<br><i>Dez DeLeon</i> | Time:<br>1210 | REMARKS:<br>Fax Results to (505) 397-4701<br>27°F |
| Relinquished by:<br><i>Dez DeLeon</i> | Date:<br>7/10/00 | Time:         | Received by:<br><i>Dez DeLeon</i> | Time:         |                                                   |
| Relinquished by:                      | Date:            | Time:         | Received by Laboratory:           | Time:         | Bill To EOT                                       |

Environmental Lab of Texas, Inc. 12600 West I-20 East Odessa, Texas 79763  
(915) 563-1800 FAX (915) 563-1713

CHAIN-OF-CUSTODY RECORD AND ANALYSIS REQUEST

Case # 172

ANALYSIS REQUEST 4 of 9

Project Manager: Jeff Aldrich  
Phone #: (505) 397-4882  
FAX #: (505) 397-4701

Company Name & Address:  
E 1261, 2540 W. Maryland, Hobbs, NM 88240

Project #: COT2059C  
Project Name: DARR ANGELL 3

Project Location: Los Alamos, NM  
Sampler Signature: [Signature]

| LAB#<br>(1-6000)<br>(001) | FIELD CODE    | # CONTAINERS | Volume/Amount | MATRIX |      |     |        |       | PRESERVATIVE METHOD |      |     |      |       | SAMPLING |  | DATE   | TIME |
|---------------------------|---------------|--------------|---------------|--------|------|-----|--------|-------|---------------------|------|-----|------|-------|----------|--|--------|------|
|                           |               |              |               | WATER  | SOIL | AIR | SLUDGE | OTHER | HCL                 | HNO3 | ICE | NONE | OTHER |          |  |        |      |
| 27911                     | 5B 3 2830(C)  | 1            | 1400          | X      |      |     |        |       |                     |      | X   |      |       |          |  | 7/6/98 | 0828 |
| 27912                     | 5B 3 3335(C)  |              |               |        |      |     |        |       |                     |      |     |      |       |          |  |        | 1028 |
| 27913                     | 5B 3 3840(C)  |              |               |        |      |     |        |       |                     |      |     |      |       |          |  |        | 1031 |
| 27914                     | 5B 3 4345(C)  |              |               |        |      |     |        |       |                     |      |     |      |       |          |  |        | 1036 |
| 27915                     | 5B 3 4850(C)  |              |               |        |      |     |        |       |                     |      |     |      |       |          |  |        | 1038 |
| 27916                     | 5B 3 5355(C)  |              |               |        |      |     |        |       |                     |      |     |      |       |          |  |        | 1041 |
| 27917                     | 5B 3 58-60(C) |              |               |        |      |     |        |       |                     |      |     |      |       |          |  |        | 1058 |
| 27918                     | 5B 4 02(C)    |              |               |        |      |     |        |       |                     |      |     |      |       |          |  |        | 1158 |
| 27919                     | 5B 4 35(C)    |              |               |        |      |     |        |       |                     |      |     |      |       |          |  |        | 1200 |
| 27920                     | 5B 4 820(C)   |              |               |        |      |     |        |       |                     |      |     |      |       |          |  |        | 1205 |
| 27921                     | 5B 4 1315(C)  |              |               |        |      |     |        |       |                     |      |     |      |       |          |  |        | 1208 |
| BTEX 8020/5030            |               |              |               |        |      |     |        |       |                     |      |     |      |       |          |  |        |      |
| TPH 8020/5030             |               |              |               |        |      |     |        |       |                     |      |     |      |       |          |  |        |      |
| TCLP Metals Ag As         |               |              |               |        |      |     |        |       |                     |      |     |      |       |          |  |        |      |
| Total Metals Ag As        |               |              |               |        |      |     |        |       |                     |      |     |      |       |          |  |        |      |
| TCLP Volatiles            |               |              |               |        |      |     |        |       |                     |      |     |      |       |          |  |        |      |
| TCLP Semi Volatiles       |               |              |               |        |      |     |        |       |                     |      |     |      |       |          |  |        |      |
| TDS                       |               |              |               |        |      |     |        |       |                     |      |     |      |       |          |  |        |      |
| RCI                       |               |              |               |        |      |     |        |       |                     |      |     |      |       |          |  |        |      |

| Requisitioned by: | Date:   | Time: | Received by:            | Time: | REMARKS                       |
|-------------------|---------|-------|-------------------------|-------|-------------------------------|
| [Signature]       | 7/10/98 | 1745  | [Signature]             |       | For results to (505) 397-4701 |
| Requisitioned by: | Date:   | Time: | Received by:            | Time: |                               |
| [Signature]       | 7/10/98 |       | [Signature]             | 1210  | 2708                          |
| Requisitioned by: | Date:   | Time: | Received by Laboratory: | Time: |                               |
|                   |         |       |                         |       | Bill To EOT                   |

Environmental Lab of Texas, Inc. 12600 West I-20 East Odessa, Texas 79763  
(915) 563-1800 FAX (915) 563-1713

CHAIN-OF-CUSTODY RECORD AND ANALYSIS REQUEST

Lab # 182

Project Manager: Bellh Aldrich  
Phone #: (505) 397-4882  
FAX #: (505) 397-4701

ANALYSIS REQUEST

5 of 9

Company Name & Address:  
ELCC, 2540 W. Maryland, Hobbs, NM 88240

Project Name:  
Dark Angel 3

Project Number:  
60720590

Location:  
Log City, NM

Sampler Signature:  
[Signature]

| LAB # | FIELD CODE    | # CONTAINERS | Volume/Amount | MATRIX |      |     |        | PRESERVATIVE METHOD |     |      |     | SAMPLING |       | BTEX 81120/503 | TPH <del>161</del> 80 | TCLP Metals Ag A | Total Metals Ag As | TCLP Volatiles | TCLP Semi Volatiles | TDS | RCI |      |
|-------|---------------|--------------|---------------|--------|------|-----|--------|---------------------|-----|------|-----|----------|-------|----------------|-----------------------|------------------|--------------------|----------------|---------------------|-----|-----|------|
|       |               |              |               | WATER  | SOIL | AIR | SLUDGE | OTHER               | HCL | HNO3 | ICE | NONE     | OTHER |                |                       |                  |                    |                |                     |     |     | DATE |
| 27922 | 58.4 1820 (e) | 1            | 1902          | X      |      |     |        |                     |     |      | X   |          |       |                | 7/6/00                | 1210             |                    |                |                     |     |     |      |
| 27923 | 58.4 2345 (e) |              |               |        |      |     |        |                     |     |      |     |          |       |                |                       | 1213             |                    |                |                     |     |     |      |
| 27924 | 58.4 2838 (e) |              |               |        |      |     |        |                     |     |      |     |          |       |                |                       | 1219             |                    |                |                     |     |     |      |
| 27925 | 58.4 3335 (e) |              |               |        |      |     |        |                     |     |      |     |          |       |                |                       | 1240             |                    |                |                     |     |     |      |
| 27926 | 58.4 3840 (e) |              |               |        |      |     |        |                     |     |      |     |          |       |                |                       | 1249             |                    |                |                     |     |     |      |
| 27927 | 58.4 4345 (e) |              |               |        |      |     |        |                     |     |      |     |          |       |                |                       | 1256             |                    |                |                     |     |     |      |
| 27928 | 58.4 4850 (e) |              |               |        |      |     |        |                     |     |      |     |          |       |                |                       | 1258             |                    |                |                     |     |     |      |
| 27929 | 58.4 5355 (e) |              |               |        |      |     |        |                     |     |      |     |          |       |                |                       | 1258             |                    |                |                     |     |     |      |
| 27930 | 58.4 5860 (e) |              |               |        |      |     |        |                     |     |      |     |          |       |                |                       | 1315             | X                  |                |                     |     |     |      |
| 27931 | 58.5 0220 (e) |              |               |        |      |     |        |                     |     |      |     |          |       |                |                       | 7/6/00           | 0928               |                |                     |     |     |      |
| 27932 | 58.5 0500 (e) |              |               |        |      |     |        |                     |     |      |     |          |       |                |                       | 7/6/00           | 0932               |                |                     |     |     |      |

TCLP Metals Ag As Ba Cd Cr Pb Hg Se  
TCLP Metals Ag As Ba Cd Cr Pb Hg Se  
TCLP Semi Volatiles  
TDS  
TCI

Remarks: For results to (505) 397-4701

27 °F

|                                        |                         |                      |                                    |
|----------------------------------------|-------------------------|----------------------|------------------------------------|
| Relinquished by:<br><u>[Signature]</u> | Date:<br><u>7/14/00</u> | Time:<br><u>2740</u> | Received by:<br><u>[Signature]</u> |
| Relinquished by:<br><u>[Signature]</u> | Date:<br><u>7/10/00</u> | Time:<br><u>1210</u> | Received by:<br><u>[Signature]</u> |
| Relinquished by:                       | Date:                   | Time:                | Received by Laboratory:            |

Bill To EST

Environmental Lab of Texas, Inc. 12600 West I-20 East Odessa, Texas 79763  
(915) 563-1800 FAX (915) 563-1713

Project Manager:

Beth Altnick

Phone #: (505) 397-4882

FAX #: (505) 397-4701

Company Name & Address:

1021, 2540 W. Maryland, Hobbs NM 88240

Project #:

60720590

Project Name:

DARE ANGEL 3

Project Location:

1021 (1) NW

Supplier Signature:

Dee Obich

| Lab #<br>(cont.) | FIELD CODE | # CONTAINERS | Volume/Amount | MATRIX |      |     |        |       |     | PRESERVATIVE METHOD |     |      |       |      | SAMPLING |      |
|------------------|------------|--------------|---------------|--------|------|-----|--------|-------|-----|---------------------|-----|------|-------|------|----------|------|
|                  |            |              |               | WATER  | SOIL | AIR | SLUDGE | OTHER | HCL | HNO3                | ICE | NONE | OTHER | DATE | TIME     |      |
| 27933            | SB 5       | 1            | 10' (C)       |        | X    |     |        |       |     |                     |     | X    |       |      | 7/10/00  | 0937 |
| 27934            | SB 5       |              | 13' 15" (C)   |        |      |     |        |       |     |                     |     |      |       |      | 0942     |      |
| 27935            | SB 5       |              | 12' 20" (C)   |        |      |     |        |       |     |                     |     |      |       |      | 0943     |      |
| 27936            | SB 5       |              | 23' 25" (C)   |        |      |     |        |       |     |                     |     |      |       |      | 0949     |      |
| 27937            | SB 5       |              | 28' 30" (C)   |        |      |     |        |       |     |                     |     |      |       |      | 1000     |      |
| 27938            | SB 5       |              | 33' 35" (C)   |        |      |     |        |       |     |                     |     |      |       |      | 1030     |      |
| 27939            | SB 5       |              | 31' 40" (C)   |        |      |     |        |       |     |                     |     |      |       |      | 1032     |      |
| 27940            | SB 5       |              | 43' 45" (C)   |        |      |     |        |       |     |                     |     |      |       |      | 1034     |      |
| 27941            | SB 5       |              | 48' 50" (C)   |        |      |     |        |       |     |                     |     |      |       |      | 1038     |      |
| 27942            | SB 5       |              | 53' 55" (C)   |        |      |     |        |       |     |                     |     |      |       |      | 1040     |      |
| 27943            | SB 5       |              | 58' 60" (C)   |        |      |     |        |       |     |                     |     |      |       |      | 1100     |      |

Relinquished by:

Dee Obich

Date:

7/10/00

Relinquished by:

Dee Obich

Date:

7/10/00

Relinquished by:

Dee Obich

Date:

7/10/00

REMARKS

fax results to (505) 397-4701

27°C

Bill To Eott

CHAIN-OF-CUSTODY RECORD AND ANALYSIS REQUEST

CC# 182

ANALYSIS REQUEST

6 of 9

|                                      |            |
|--------------------------------------|------------|
| TPH                                  | 60.5 (G/L) |
| BTEX                                 | 8020/5030  |
| TCLP Metals Ag As Ba Cd Cr Pb Hg Se  |            |
| Total Metals Ag As Ba Cd Cr Pb Hg Se |            |
| TCLP Volatiles                       |            |
| TCLP Semi Volatiles                  |            |
| TDS                                  |            |
| RCI                                  |            |



## CHAIN-OF-CUSTODY RECORD AND ANALYSIS REQUEST

CC-#182

Phone #: (505) 397-4882

FAX# (505) 397-4701

1540 W. Maryland Hobbs NM 88240

Project Name:

15720592

Project Name: DASH 2000 3

Supplier Name:

129 WV, WA

Project Name: DACC Access 3

Supplier Signature: 

[illegible]

—

\_\_\_\_\_

—

\_\_\_\_\_

REF ID: A61111

Not

Time.

**Substructure analysis**

Described by

1

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

Things:

**Abstract**

Described by Johnston

Fax results to (505) 397-4701

3.23

Bill To Cost

## CHAIN-OF-CUSTODY RECORD AND ANALYSIS REQUEST

Phone #: (505) 297-4882

Phone #: (505) 347-4885

FAX N: (505) 397-4701

WM 88240

Project Name:

DART ANGEL 3

Samuel J. May

W. A. C. C.

27-1-7

| SAMPLING | DATE | TIME | PRESERVATIVE METHOD |     |      |       | MATRIX |      |     |        |       | # CONTAINERS | Volume/Amount | FIELD CODE  |
|----------|------|------|---------------------|-----|------|-------|--------|------|-----|--------|-------|--------------|---------------|-------------|
|          |      |      | HNO3                | ICE | NONE | OTHER | WATER  | SOIL | AIR | SLUDGE | OTHER |              |               |             |
| 7/1/00   | 1234 |      | X                   |     |      |       | X      |      |     |        | 1     | 142          | 53.6          | 53.55'(C)   |
|          | 1240 |      |                     |     |      |       |        |      |     |        |       |              | 53.6          | 56.60'(S/L) |
|          | 1334 |      |                     |     |      |       |        |      |     |        |       |              | 53.7          | 0.22(C)     |
|          | 1338 |      |                     |     |      |       |        |      |     |        |       |              | 53.7          | 3.5'(C)     |
|          | 1340 |      |                     |     |      |       |        |      |     |        |       |              | 53.7          | 810'(C)     |
|          | 1341 |      |                     |     |      |       |        |      |     |        |       |              | 53.7          | 1375'(C)    |
|          | 1343 |      |                     |     |      |       |        |      |     |        |       |              | 53.7          | 1820'(C)    |
|          | 1344 |      |                     |     |      |       |        |      |     |        |       |              | 53.7          | 2325'(C)    |
|          | 1350 |      |                     |     |      |       |        |      |     |        |       |              | 53.7          | 2830'(C)    |
|          | 1416 |      |                     |     |      |       |        |      |     |        |       |              | 53.7          | 3335'(C)    |
|          | 1417 |      |                     |     |      |       |        |      |     |        |       |              | 53.7          | 3850'(C)    |

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

Received by: Delect 7/16/02 Date: 7/16/02

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

Approved by: *[Signature]* Date: 7/10/00

— 22 —

|                  |       |
|------------------|-------|
| Relinquished by: | Date: |
|------------------|-------|

Received by:

Henry Stone

Received by:

Received by:  
Lala d K Jindal

Received by Laboratory:

REMARKS

Pay results to (505) 397-4701

1022

Bill To EOT

001 21 00 12:11F

Environmental Lab of Texas, Inc. 12600 West I-20 East Odessa, Texas 79763  
 (915) 563-1800 FAX (915) 563-1713

CHAIN-OF-CUSTODY RECORD AND ANALYSIS REQUEST

COL # 182

Project Manager: Beth Aldrich  
 Phone #: (505) 397-4882  
 FAX #: (505) 397-4701

ANALYSIS REQUEST

9 of 9

Company Name & Address: ECOF, 2540 W. Maryland, Hobbs, NM 88240

Project Name: DOT 20596  
 Project Number: 100-012, NM

Project Location: Don Angel #3  
 Sampler Signature: [Signature]

| Lab # | Field Code     | # CONTAINERS | Volume/Amount | MATRIX |      |     | PRESERVATIVE METHOD |       |     |      | SAMPLING |       |
|-------|----------------|--------------|---------------|--------|------|-----|---------------------|-------|-----|------|----------|-------|
|       |                |              |               | WATER  | SOIL | AIR | SLUDGE              | OTHER | HCL | HNO3 | NONE     | OTHER |
| 27766 | 53-7 43'45"(S) | 1            | 40            | X      |      |     |                     |       | X   |      |          |       |
| 27767 | 53-7 48'50"(S) | 1            |               |        |      |     |                     |       |     |      |          |       |
| 27768 | 53-7 53'55"(S) | 1            |               |        |      |     |                     |       |     |      |          |       |
| 27769 | 53-7 57'60"(S) | 1            |               |        |      |     |                     |       |     |      |          |       |
| 27770 | 53-7 60'62"(S) | 1            |               |        |      |     |                     |       |     |      |          |       |

|                 |                   |                                     |                                      |                |                     |     |     |
|-----------------|-------------------|-------------------------------------|--------------------------------------|----------------|---------------------|-----|-----|
| BTEX 81120/5630 | TPH 13015 GAO/DRO | TCLP Metals Ag As Ba Cd Cr Pb Hg Se | Total Metals Ag As Ba Cd Cr Pb Hg Se | TCLP Volatiles | TCLP Semi Volatiles | TDS | RCI |
|-----------------|-------------------|-------------------------------------|--------------------------------------|----------------|---------------------|-----|-----|

|                                     |                      |                   |                                 |                                              |
|-------------------------------------|----------------------|-------------------|---------------------------------|----------------------------------------------|
| Relinquished by: <u>[Signature]</u> | Date: <u>7/14/01</u> | Time: <u>0715</u> | Received by: <u>[Signature]</u> | REMARKS: <u>Fax Resu H5 to (505) 3974701</u> |
| Relinquished by: <u>[Signature]</u> | Date: <u>7/10/00</u> | Time: <u>1210</u> | Received by: <u>[Signature]</u> | <u>270F</u>                                  |
| Relinquished by:                    | Date:                | Time:             | Received by Laboratory:         | <u>BILL TO ECO</u>                           |

# ENVIRONMENTAL LAB OF , INC.

"Don't Treat Your Soil Like Dirt!"

ENVIRONMENTAL TECHNOLOGY GROUP, INC.  
ATTN: MR. JESSE TAYLOR  
2540 W. MARLAND  
HOBBS, N.M. 88240  
FAX: 505-397-4701  
FAX: 915-520-4310

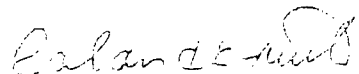
Sample Type: Soil  
Sample Condition: Intact/ Iced/ 30 deg. F  
Project #: EOT 2059C  
Project Name: DARR ANGELL #3  
Project Location: Lea County, N.M.

Sampling Date: 07/11/00  
Receiving Date: 07/12/00  
Analysis Date: 07/14/00

| ELT#  | FIELD CODE  | GRO             | DRO               |
|-------|-------------|-----------------|-------------------|
|       |             | C8-C10<br>mg/kg | >C10-C28<br>mg/kg |
| 28076 | SB-8 0-2'   | <10             | <10               |
| 28077 | SB-8 3-5'   | <10             | <10               |
| 28078 | SB-8 8-10'  | <10             | <10               |
| 28079 | SB-8 13-15' | <10             | <10               |
| 28080 | SB-8 18-20' | <10             | <10               |
| 28081 | SB-8 23-25' | <10             | <10               |
| 28082 | SB-8 28-30' | <10             | <10               |
| 28083 | SB-8 33-35' | <10             | <10               |
| 28084 | SB-8 38-40' | <10             | <10               |
| 28085 | SB-8 43-45' | <10             | <10               |
| 28086 | SB-8 48-50' | <10             | <10               |
| 28087 | SB-8 53-55' | <10             | <10               |
| 28088 | SB-8 58-60' | <10             | 70                |
| 28089 | SB-8 63-65' | <10             | <10               |

|       |     |     |
|-------|-----|-----|
| % IA  | 91  | 123 |
| % EA  | 130 | 136 |
| BLANK | <10 | <10 |

METHODS: SW 346-3015M GPC/DRO

  
Baland K. Tuttle

7-19-00  
Date

# Environmental Lab of Texas, Inc. 12600 West I-20 East Odessa, Texas 79763 (915) 563-1800 FAX (915) 563-1713

Project Manager: Jesse Turner Phone #: (505) 397-4882  
FAX #: (505) 397-4701

Company Name & Address: ESSE Turner  
2525 W. McARDERD ST. SUITE 100

Project #: 20522 Project Name: DARR ANGELL #3

Project Location: 124 S. 12th St. A. 40 AM Sampler Signature: [Signature]

| Lab # | FIELD CODE  | # CONTAINERS | Volume/Amount | MATRIX |      |     |        |       | PRESERVATIVE METHOD |      |     |      |       | SAMPLING |      |
|-------|-------------|--------------|---------------|--------|------|-----|--------|-------|---------------------|------|-----|------|-------|----------|------|
|       |             |              |               | WATER  | SOIL | AIR | SLUDGE | OTHER | HCL                 | HNO3 | ICE | NONE | OTHER | DATE     | TIME |
| 28081 | SBP 0'-2'   | 1            | 402           | X      |      |     |        |       |                     |      | X   |      |       | 7-11     | 1242 |
| 28082 | SBP 3'-5'   |              |               |        |      |     |        |       |                     |      |     |      |       |          | 1246 |
| 28083 | SBP 8'-10'  |              |               |        |      |     |        |       |                     |      |     |      |       |          | 1253 |
| 28084 | SBP 13'-15' |              |               |        |      |     |        |       |                     |      |     |      |       |          | 1258 |
| 28085 | SBP 18'-20' |              |               |        |      |     |        |       |                     |      |     |      |       |          | 1304 |
| 28086 | SBP 23'-25' |              |               |        |      |     |        |       |                     |      |     |      |       |          | 1349 |
| 28087 | SBP 28'-30' |              |               |        |      |     |        |       |                     |      |     |      |       |          | 1349 |
| 28088 | SBP 33'-35' |              |               |        |      |     |        |       |                     |      |     |      |       |          | 1540 |
| 28089 | SBP 38'-40' |              |               |        |      |     |        |       |                     |      |     |      |       |          | 1550 |
| 28090 | SBP 43'-45' |              |               |        |      |     |        |       |                     |      |     |      |       |          | 1600 |
| 28091 | SBP 48'-50' |              |               |        |      |     |        |       |                     |      |     |      |       |          | 1605 |

|                                      |                      |                    |                                  |                    |
|--------------------------------------|----------------------|--------------------|----------------------------------|--------------------|
| Relinquished by: <u>Jesse Turner</u> | Date: <u>7-12-00</u> | Time: <u>0800</u>  | Received by: <u>Jesse Turner</u> | Time: <u>10:30</u> |
| Relinquished by: <u>[Signature]</u>  | Date: <u>7/12/00</u> | Time: <u>10:30</u> | Received by: <u>[Signature]</u>  | Time: <u>10:30</u> |
| Relinquished by: <u>[Signature]</u>  | Date: <u>7/12/00</u> | Time: <u>10:30</u> | Received by: <u>[Signature]</u>  | Time: <u>10:30</u> |

REMARKS: 300P  
FAX RESULTS: HOBES OFFICE

INVOICE: 6077

CHAIN-OF-CUSTODY RECORD AND ANALYSIS REQUEST

COC 186

ANALYSIS REQUEST

|                                      |      |         |
|--------------------------------------|------|---------|
| TPH                                  | 8015 | DEO/5.0 |
| BTEX                                 | 8020 |         |
| TCLP Metals Ag As Be Cd Cr Pb Hg Se  |      |         |
| Total Metals Ag As Be Cd Cr Pb Hg Se |      |         |
| TCLP Volatiles                       |      |         |
| TCLP Semi Volatiles                  |      |         |
| TDS                                  |      |         |
| RCI                                  |      |         |

206

Environmental Lab of Texas, Inc. 12600 West I-20 East Odessa, Texas 79763  
(915) 563-1800 FAX (915) 563-1713

CHAIN-OF-CUSTODY RECORD AND ANALYSIS REQUEST

COC 186

Project Manager: *John E. Avlon*  
Phone #: (505) 397-4882  
FAX #: (505) 392-4700

Company Name & Address: *577 G.E.  
2540 W. MARLAND*

Project #: *50 20590*  
Project Name: *DOEE MUSEUM #3*

Project Location: *5000 COUNTY 11111*  
Sampler Signature: *[Signature]*

| LAB #<br>(LAB USE ONLY) | FIELD CODE | # CONTAINERS | Volume/Amount | MATRIX |      |     |        | PRESERVATIVE METHOD |     |      |     |      | SAMPLING |      |      |
|-------------------------|------------|--------------|---------------|--------|------|-----|--------|---------------------|-----|------|-----|------|----------|------|------|
|                         |            |              |               | WATER  | SOIL | AIR | SLUDGE | OTHER               | HCL | HNO3 | ICE | NONE | OTHER    | DATE | TIME |
| 18017                   | 233' 53.5' | 1            | 400           | X      |      |     |        |                     |     |      | X   |      |          | 7-11 | 1638 |
| 18028                   | 53' 58-00  | ↓            | ↓             | ↓      |      |     |        |                     |     |      | ↓   |      |          | ↓    | 1740 |
| 18029                   | 63' 65'    | ↓            | ↓             | ↓      |      |     |        |                     |     |      | ↓   |      |          | ↓    | 1730 |

ANALYSIS REQUEST

|                                     |  |
|-------------------------------------|--|
| TCLP Metals Ag As Ba Cd Cr Pb Hg Se |  |
| TCLP Metals Ag As Ba Cd Cr Pb Hg Se |  |
| TCLP Volatiles                      |  |
| TCLP Semi Volatiles                 |  |
| TDS                                 |  |
| RCI                                 |  |

BTEX 8020/5030  
TPH *30.5* *DOE/DOE*

REMARKS

|                                     |               |              |                                 |
|-------------------------------------|---------------|--------------|---------------------------------|
| Relinquished by: <i>[Signature]</i> | Date: 7-12-00 | Times: 0800  | Received by: <i>[Signature]</i> |
| Relinquished by:                    | Date:         | Times:       | Received by:                    |
| Relinquished by: <i>[Signature]</i> | Date: 7/12/00 | Times: 16:30 | Received by: <i>[Signature]</i> |

30 07-

# ENVIRONMENTAL LAB OF , INC.

"Don't Treat Your Soil Like Dirt!"

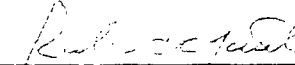
ENVIRONMENTAL TECHNOLOGY GROUP, INC.  
ATTN: MR. JESSE TAYLOR  
2540 W. MARLAND  
HOBBS, N.M. 88242  
FAX: 505-397-4701  
FAX: 915-520-4310

SampleType: Soil  
Sample Condition: Intact/ Iced/ 34 deg. F  
Project #: EOT 2059C  
Project Name: DARR ANGELL #3  
Project Location: Lea County, N.M.

Sampling Date: See Below  
Receiving Date: 07/14/00  
Analysis Date: 07/18/00

| ELT#  | FIELD CODE  | GRO<br>C9-C10<br>mg/kg | DRO<br>>C10-C20<br>mg/kg | SAMPLE<br>DATE |
|-------|-------------|------------------------|--------------------------|----------------|
| 28202 | RW 4 28-30' | <10                    | <10                      | 07/13/00       |
| 28203 | RW 4 33-35' | <10                    | <10                      | 07/13/00       |
| 28204 | RW 4 38-40' | <10                    | <10                      | 07/13/00       |
| 28205 | RW 4 43-45' | <10                    | 233                      | 07/13/00       |
| 28206 | RW 4 48-50' | 34                     | 699                      | 07/13/00       |
| 28207 | RW 4 53-55' | 37                     | 492                      | 07/13/00       |
| 28208 | RW 4 58-60' | 253                    | 1796                     | 07/13/00       |
| 28209 | RW 4 63-65' | <10                    | 342                      | 07/13/00       |
| 28210 | MW 1 38-40' | <10                    | <10                      | 07/13/00       |
| 28211 | MW 1 43-45' | <10                    | <10                      | 07/13/00       |
| 28212 | MW 1 48-50' | <10                    | <10                      | 07/13/00       |
| 28213 | MW 1 53-55' | <10                    | <10                      | 07/13/00       |
| 28214 | MW 1 58-60' | <10                    | <10                      | 07/13/00       |
| 28215 | RW 4 0-2'   | <10                    | <10                      | 07/13/00       |
| 28216 | RW 4 3-5'   | <10                    | <10                      | 07/13/00       |
| 28217 | RW 4 8-10'  | <10                    | <10                      | 07/13/00       |
| 28218 | RW 4 13-15' | <10                    | <10                      | 07/13/00       |
| 28219 | RW 4 18-20' | <10                    | <10                      | 07/13/00       |
| 28220 | RW 4 23-25' | <10                    | <10                      | 07/13/00       |
| 28221 | RW 3 53-55' | <10                    | <10                      | 07/12/00       |
| 28222 | RW 3 58-60' | 1720                   | 5501                     | 07/12/00       |
| 28223 | RW 3 63-65' | 47                     | 1050                     | 07/12/00       |
| 28224 | MW 1 0-2'   | <10                    | 75                       | 07/13/00       |
| 28225 | MW 1 3-5'   | <10                    | <10                      | 07/13/00       |
| 28226 | MW 1 8-10'  | <10                    | <10                      | 07/13/00       |
| % IA  |             | 91                     | 113                      |                |
| % EA  |             | 72                     | 30                       |                |
| BLANK |             | <10                    | <10                      |                |

METHODS: SW 846-8015M GRO/DRO

  
Paland K. Title

7-14-00  
Date

# ENVIRONMENTAL LAB OF , INC.

"Don't Treat Your Soil Like Dirt!"

ENVIRONMENTAL TECHNOLOGY GROUP, INC.  
ATTN: MR. JESSE TAYLOR  
2540 W. MARLAND  
HOBBS, N.M. 88242  
FAX: 505-397-4701  
FAX: 915-520-4310

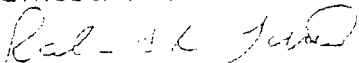
Sample Type: Soil  
Sample Condition: Intact/ Iced/ 34 deg. F  
Project #: EOT 2059C  
Project Name: DARRANGELL #3  
Project Location: Lea County, N.M.

Sampling Date: See Below  
Receiving Date: 07/14/00  
Analysis Date: 07/19/00

| ELT#  | FIELD CODE  | GRO             | DRO               | SAMPLE<br>DATE |
|-------|-------------|-----------------|-------------------|----------------|
|       |             | CS-C10<br>mg/kg | >C10-C28<br>mg/kg |                |
| 28227 | MW 1 13-15' | <10             | <10               | 07/13/00       |
| 28228 | MW 1 18-20' | <10             | <10               | 07/13/00       |
| 28229 | MW 1 23-25' | <10             | <10               | 07/13/00       |
| 28230 | MW 1 28-30' | <10             | <10               | 07/13/00       |
| 28231 | MW 1 33-35' | <10             | <10               | 07/13/00       |
| 28232 | RW 3 0-2'   | 465             | 1228              | 07/12/00       |
| 28233 | RW 3 3-5'   | 503             | 1803              | 07/12/00       |
| 28234 | RW 3 8-10'  | 2221            | 5575              | 07/12/00       |
| 28235 | RW 3 13-15' | 2257            | 5757              | 07/12/00       |
| 28236 | RW 3 18-20' | 1665            | 4875              | 07/12/00       |
| 28237 | RW 3 23-25' | 3071            | 5147              | 07/12/00       |
| 28238 | RW 3 28-30' | 3818            | 12533             | 07/12/00       |
| 28239 | RW 3 33-35' | <10             | 714               | 07/12/00       |
| 28240 | RW 3 38-40' | <10             | 78                | 07/12/00       |
| 28241 | RW 3 43-45' | <10             | 27                | 07/12/00       |
| 28242 | RW 3 48-50' | <10             | 11                | 07/12/00       |

|       |     |     |
|-------|-----|-----|
| % IA  | 77  | 89  |
| % EA  | 70  | 80  |
| BLANK | <10 | <10 |

METHODS: SW 346-3015M GRC/DRC

  
Roland K. Tuttle

7-24-00  
Date



# ENVIRONMENTAL LAB OF , INC.

"Don't Treat Your Soil Like Dirt!"

ENVIRONMENTAL TECHNOLOGY GROUP, INC.  
ATTN: MR. JESSE TAYLOR  
2540 W. MARLAND  
HOBBBS, N.M. 88242  
FAX: 505-397-4701  
FAX: 915-520-4310

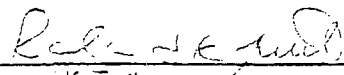
Sample Type: Soil  
Sample Condition: Intact/Iced/ 34 deg. F  
Project #: EOT 2059C  
Project Name: DARR ANGELL #3  
Project Location: Lea County, N.M.

Sampling Date: See Below  
Receiving Date: 07/14/00  
Analysis Date: 07/18/00

| ELT#  | FIELD CODE  | BENZENE<br>(mg/kg) | TOLUENE<br>(mg/kg) | ETHYLBENZENE<br>(mg/kg) | m,p-XYLENE<br>(mg/kg) | o-XYLENE<br>(mg/kg) | SAMPLE<br>DATE |
|-------|-------------|--------------------|--------------------|-------------------------|-----------------------|---------------------|----------------|
| 28205 | RW 4 43-45' | <0.100             | 0.156              | <0.100                  | 0.141                 | <0.100              | 07/13/00       |
| 28206 | RW 4 48-50' | <0.100             | 0.106              | <0.100                  | 0.167                 | <0.100              | 07/13/00       |
| 28207 | RW 4 53-55' | <0.100             | 0.305              | 0.165                   | 0.641                 | 0.249               | 07/13/00       |
| 28208 | RW 4 58-60' | <0.100             | 1.20               | 1.18                    | 4.25                  | 1.73                | 07/13/00       |
| 28222 | RW 3 58-60' | 1.29               | 20.2               | 13.8                    | 50.0                  | 16.4                | 07/12/00       |
| 28223 | RW 3 63-65' | <0.100             | 0.635              | 0.585                   | 2.29                  | 0.911               | 07/12/00       |
| 28233 | RW 3 3-5'   | <0.100             | <0.100             | 3.45                    | 14.1                  | 7.55                | 07/12/00       |
| 28234 | RW 3 8-10'  | <0.100             | 5.06               | 3.89                    | 14.0                  | 6.22                | 07/12/00       |
| 28235 | RW 3 13-15' | 1.16               | 22.8               | 13.6                    | 46.6                  | 15.6                | 07/12/00       |
| 28236 | RW 3 18-20' | <0.100             | 3.59               | 2.36                    | 8.28                  | 3.33                | 07/12/00       |
| 28237 | RW 3 23-25' | 5.37               | 38.6               | 17.3                    | 69.3                  | 22.9                | 07/12/00       |
| 28238 | RW 3 28-30' | 2.52               | 25.8               | 14.6                    | 56.7                  | 20.7                | 07/12/00       |

|       |        |        |        |        |        |
|-------|--------|--------|--------|--------|--------|
| %IA   | 93     | 91     | 92     | 104    | 94     |
| %EA   | 94     | 94     | 91     | 107    | 91     |
| BLANK | <0.100 | <0.100 | <0.100 | <0.100 | <0.100 |

METHODS: EPA SW 846-8021B,5030

  
Randall K. Turtle

7-14-00  
Date

**Environmental Lab of Texas, Inc.** 12600 West 1-20 East Odessa, Texas 79763  
(915) 563-1800 FAX (915) 563-1713

Phone #: (505) 397-4882  
FAX #: (505) 397-4701

5-17-2  
L. H. HARRIS NM 85242

Project Name: DARR ANGELL #3

Sampler Signature: 

Lower Road

[illegible]

| REMARKS                                                      |                                                      |
|--------------------------------------------------------------|------------------------------------------------------|
| Requisitioned by: <i>[Signature]</i><br>Date: <i>7/14/00</i> | Received by: <i>[Signature]</i><br>Time: <i>0715</i> |
| Requisitioned by: <i>[Signature]</i><br>Date: <i>7/14/00</i> | Received by: <i>[Signature]</i><br>Time: <i>1700</i> |

CHAIN-OF-CUSTODY RECORD AND ANALYSIS REQUEST

COC 7 198

ANALYSIS REQUEST

DRG/570

340

Environmental Lab of Texas, Inc. 12500 West I-20 East Odessa, Texas 79763  
 (915) 563-1800 FAX (915) 563-1713

Project Manager: Steve Tidwell Phone #: (505) 397-4882  
 FAX #: (505) 397-4701

Company Name & Address: E. T. G. T.  
2500 W. PARLANIS HOBBS, NM 88242

Project #: 20572 Project Name: DARR ANGELL #3  
 Project Location: 1-4 (GULF), NM Sampler Signature: [Signature]

| LAB # | FIELD CODE  | # CONTAINERS | Volume/Amount | MATRIX |      |     |        |       |     | PRESERVATIVE METHOD |     |      |       | SAMPLING |      |      |
|-------|-------------|--------------|---------------|--------|------|-----|--------|-------|-----|---------------------|-----|------|-------|----------|------|------|
|       |             |              |               | WATER  | SOIL | AIR | SLUDGE | OTHER | HCL | HNO3                | ICE | NONE | OTHER | DATE     | TIME |      |
| 28210 | RW 1 38-40' | 1            | 40L           | X      |      |     |        |       |     |                     | X   |      |       |          | 7/13 | 1200 |
| 28211 | RW 1 43-45' |              |               |        |      |     |        |       |     |                     |     |      |       |          |      | 1210 |
| 28212 | RW 1 48-50' |              |               |        |      |     |        |       |     |                     |     |      |       |          |      | 1220 |
| 28213 | RW 1 53-55' |              |               |        |      |     |        |       |     |                     |     |      |       |          |      | 1230 |
| 28214 | RW 1 58-60' |              |               |        |      |     |        |       |     |                     |     |      |       |          |      | 1240 |
| 28215 | RW 4 6-2'   |              |               |        |      |     |        |       |     |                     |     |      |       |          |      | 1325 |
| 28216 | RW 4 3-5'   |              |               |        |      |     |        |       |     |                     |     |      |       |          |      | 1330 |
| 28217 | RW 4 8-10'  |              |               |        |      |     |        |       |     |                     |     |      |       |          |      | 1338 |
| 28218 | RW 4 13-15' |              |               |        |      |     |        |       |     |                     |     |      |       |          |      | 1345 |
| 28219 | RW 4 18-20' |              |               |        |      |     |        |       |     |                     |     |      |       |          |      | 1350 |
| 28220 | RW 4 23-25' |              |               |        |      |     |        |       |     |                     |     |      |       |          |      | 1355 |

| Relinquished by:       | Date:          | Time:       | Received by:           | Time: |
|------------------------|----------------|-------------|------------------------|-------|
| <u>Steve Tidwell</u>   | <u>7/14/00</u> | <u>0715</u> | <u>Gregory Peltier</u> |       |
| Relinquished by:       | Date:          | Time:       | Received by:           | Time: |
|                        |                |             |                        |       |
| Relinquished by:       | Date:          | Time:       | Received by:           | Time: |
| <u>Gregory Peltier</u> | <u>7/14/00</u> | <u>1700</u> | <u>[Signature]</u>     |       |

CHAIN-OF-CUSTODY RECORD AND ANALYSIS REQUEST

Case # 188

ANALYSIS REQUEST

TPH 8015 MDL/620

BTX 8120/620

TCLP Metals Ag As Ba Cd Cr Pb Hg Se

Total Metals Ag As Ba Cd Cr Pb Hg Se

TCLP Volatiles

TCLP Semi Volatiles

TDS

RCI

REMARKS

34°

2-5-01

1.

ANALYSTS REQUEST

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

5/10  
 5/10

340

Received by:

Received by

4 of 4

Environmental Lab of Texas, Inc. 12600 West I-20 East Odessa, Texas 79763  
(915) 563-1800 FAX (915) 563-1713

CHAIN-OF-CUSTODY RECORD AND ANALYSIS REQUEST

COC# 188

Project Manager: Jesse Taylor  
Phone # (505) 397-4882  
FAX #: (505) 397-4701

Company Name & Address: 2570 W. MARLIN, HOBBS, NM 88242  
Project Name: DARR ANGELL 3

Project Location: 2570 W. MARLIN, HOBBS, NM 88242  
Sample Signature: [Signature]

| LAB # | FIELD CODE  | # CONTAINERS | Volume/Amount | MATRIX |      |     |        | PRESERVATIVE METHOD |     |      |     | SAMPLING |       |
|-------|-------------|--------------|---------------|--------|------|-----|--------|---------------------|-----|------|-----|----------|-------|
|       |             |              |               | WATER  | SOIL | AIR | SLUDGE | OTHER               | HCL | HNO3 | ICE | NONE     | OTHER |
| 28232 | RW 3 0-2'   | 1            | 402           | X      |      |     |        |                     |     | X    |     | 7-12     | 10930 |
| 28233 | RW 3 3-5'   |              |               |        |      |     |        |                     |     |      |     |          | 10935 |
| 28234 | RW 3 8-10'  |              |               |        |      |     |        |                     |     |      |     |          | 10940 |
| 28235 | RW 3 13-15' |              |               |        |      |     |        |                     |     |      |     |          | 10945 |
| 28236 | RW 3 18-20' |              |               |        |      |     |        |                     |     |      |     |          | 10952 |
| 28237 | RW 3 23-25' |              |               |        |      |     |        |                     |     |      |     |          | 10955 |
| 28238 | RW 3 28-30' |              |               |        |      |     |        |                     |     |      |     |          | 10961 |
| 28239 | RW 3 33-35' |              |               |        |      |     |        |                     |     |      |     |          | 10965 |
| 28240 | RW 3 38-40' |              |               |        |      |     |        |                     |     |      |     |          | 10970 |
| 28241 | RW 3 45-45' |              |               |        |      |     |        |                     |     |      |     |          | 10975 |
| 28242 | RW 3 48-50' |              |               |        |      |     |        |                     |     |      |     |          | 10980 |

| Relinquished by: | Date:   | Time: | Received by:   | Time: | Remarks:                  |
|------------------|---------|-------|----------------|-------|---------------------------|
| James Carson     | 7/14/00 | 0715  | Jerry Peterson |       | EXR RESULTS: HOBBS OFFICE |
| Relinquished by: | Date:   | Time: | Received by:   | Time: | 340                       |
| Relinquished by: | Date:   | Time: | Received by:   | Time: | INVOICE: EOTT             |

ANALYSIS REQUEST

|                                      |              |
|--------------------------------------|--------------|
| TPH                                  | Bois DEO/ARO |
| TCLP Metals Ag As Ba Cd Cr Pb Hg Se  |              |
| Total Metals Ag As Ba Cd Cr Pb Hg Se |              |
| TCLP Volatiles                       |              |
| TCLP Semi Volatiles                  |              |
| TDS                                  |              |
| RCI                                  |              |

# ENVIRONMENTAL LAB OF , INC.

"Don't Treat Your Soil Like Dirt!"

ENVIRONMENTAL TECHNOLOGY GROUP, INC.  
ATTN: MR. JESSE TAYLOR  
2540 W. MARLAND  
HOBBS, N.M. 88242  
FAX: 505-397-4701  
FAX: 915-520-4310

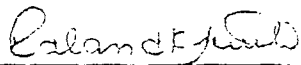
Sample Type: Soil  
Sample Condition: Intact/ loosed/ 28 deg. F  
Project #: EOT 2059C  
Project Name: DARR ANGELL #3  
Project Location: Lea County, N.M.

Sampling Date: 07/14/00  
Receiving Date: 07/18/00  
Analysis Date: 07/19/00

| ELT#  | FIELD CODE  | GRO             | DRO               |
|-------|-------------|-----------------|-------------------|
|       |             | C6-C10<br>mg/kg | >C10-C28<br>mg/kg |
| 28256 | MW 2 0-2'   | <10             | <10               |
| 28257 | MW 2 3-5'   | <10             | <10               |
| 28258 | MW 2 8-10'  | <10             | <10               |
| 28259 | MW 2 13-15' | <10             | <10               |
| 28260 | MW 2 18-20' | <10             | <10               |
| 28261 | MW 2 23-25' | <10             | <10               |
| 28262 | MW 2 28-30' | <10             | <10               |
| 28263 | MW 2 33-35' | <10             | <10               |
| 28264 | MW 2 38-40' | <10             | <10               |

|       |     |     |
|-------|-----|-----|
| % IA  | 77  | 89  |
| % EA  | 70  | 85  |
| BLANK | <10 | <10 |

METHODS: SW 846-8015M GRO/DRO

  
Raland K. Tuttle

7-24-00  
Date

# ENVIRONMENTAL LAB OF , INC.

"Don't Treat Your Soil Like Dirt!"

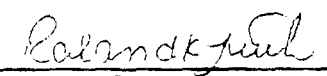
ENVIRONMENTAL TECHNOLOGY GROUP, INC.  
ATTN: MR. JESSE TAYLOR  
2540 W. MARLAND  
HOBBS, N.M. 88242  
FAX: 505-397-4701  
FAX: 915-520-4310

Sample Type: Soil  
Sample Condition: Intact/ Iced/ 28 deg. F  
Project #: EOT 2059C  
Project Name: DARR ANGELL #3  
Project Location: Lea County, N.M.

Sampling Date: See Below  
Receiving Date: 07/18/00  
Analysis Date: 07/20/00

| ELT#  | FIELD CODE  | GRO<br>CS-C10<br>mg/kg | DRO<br>>C10-C28<br>mg/kg | SAMPLE<br>DATE |
|-------|-------------|------------------------|--------------------------|----------------|
| 28265 | MW 2 43-45' | <10                    | <10                      | 07/14/00       |
| 28266 | MW 2 48-50' | <10                    | <10                      | 07/14/00       |
| 28267 | MW 2 53-55' | <10                    | <10                      | 07/14/00       |
| 28268 | MW 2 58-60' | <10                    | <10                      | 07/14/00       |
| 28269 | MW 2 63-65' | <10                    | <10                      | 07/14/00       |
| 28270 | SB-9 0-2'   | <10                    | <10                      | 07/14/00       |
| 28271 | SB-9 3-5'   | <10                    | <10                      | 07/14/00       |
| 28272 | SB-9 8-10'  | <10                    | <10                      | 07/14/00       |
| 28273 | SB-9 13-15' | <10                    | <10                      | 07/14/00       |
| 28274 | SB-9 18-20' | <10                    | <10                      | 07/14/00       |
| 28275 | SB9 23-25'  | <10                    | <10                      | 07/14/00       |
| 28276 | SB9 28-30'  | <10                    | <10                      | 07/14/00       |
| 28277 | SB-9 33-35' | <10                    | <10                      | 07/14/00       |
| 28278 | SB-9 38-40' | <10                    | <10                      | 07/14/00       |
| 28279 | SB-9 43-45' | <10                    | <10                      | 07/14/00       |
| 28280 | SB-9 48-50' | <10                    | 328                      | 07/14/00       |
| 28281 | SB-9 53-55' | <10                    | 92                       | 07/14/00       |
| 28282 | SB-9 58-60' | <10                    | 396                      | 07/14/00       |
| 28283 | MW 3 0-2'   | <10                    | <10                      | 07/17/00       |
| 28284 | MW 3 3-5'   | <10                    | <10                      | 07/17/00       |
| 28285 | MW 3 8-10'  | <10                    | <10                      | 07/17/00       |
| 28286 | MW 3 13-15' | <10                    | <10                      | 07/17/00       |
| % IA  |             | 70                     | 89                       |                |
| % EA  |             | 70                     | 80                       |                |
| BLANK |             | <10                    | <10                      |                |

METHODS: SW 846-8015M GRO/DRO

  
Roland K. Tuttle

7-24-00  
Date

# ENVIRONMENTAL LAB OF , INC.

"Don't Treat Your Soil Like Dirt!"

ENVIRONMENTAL TECHNOLOGY GROUP, INC.  
ATTN: MR. JESSE TAYLOR  
2540 W. MARLAND  
HOBBS, N.M. 88242  
FAX: 505-397-4701  
FAX: 915-520-4310

Sample Type: Soil  
Sample Condition: Intact/ Iced/ 28 deg. F  
Project #: EOT 2059C  
Project Name: DARR ANGELL #3  
Project Location: Lea County, N.M.

Sampling Date: 07/17/00  
Receiving Date: 07/18/00  
Analysis Date: 07/21/00

| ELT#  | FIELD CODE  | GRO             | DRO               |
|-------|-------------|-----------------|-------------------|
|       |             | C6-C10<br>mg/kg | >C10-C28<br>mg/kg |
| 28287 | MW 3 18-20' | <10             | <10               |
| 28288 | MW 3 23-25' | <10             | <10               |
| 28289 | MW 3 28-30' | <10             | <10               |
| 28290 | MW 3 33-35' | <10             | <10               |
| 28291 | MW 3 38-40' | <10             | <10               |
| 28292 | MW 3 43-45' | <10             | <10               |

|       |     |     |
|-------|-----|-----|
| % IA  | 74  | 84  |
| % EA  | 70  | 80  |
| BLANK | <10 | <10 |

METHODS: SW 846-8015M GRO/DRO

  
Randall K. Tuttle

7-24-00  
Date



# ENVIRONMENTAL LAB OF , INC.

"Don't Treat Your Soil Like Dirt!"

ENVIRONMENTAL TECHNOLOGY GROUP, INC.  
ATTN: MR. JESSE TAYLOR  
2540 W. MARLAND  
HOBBS, N.M. 88242  
FAX: 505-397-4701  
FAX: 915-520-4310

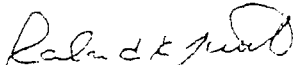
Sample Type: Soil  
Sample Condition: Intact/ Iced/ 28 deg. F  
Project #: EOT 2059C  
Project Name: DARR ANGELL #3  
Project Location: Lea County, N.M.

Sampling Date: 07/17/00  
Receiving Date: 07/18/00  
Analysis Date: 07/23/00

| ELT#  | FIELD CODE  | GRO             | DRO               |
|-------|-------------|-----------------|-------------------|
|       |             | C6-C10<br>mg/kg | >C10-C28<br>mg/kg |
| 28293 | MW 3 48-50' | <10             | <10               |
| 28294 | MW 3 53-55' | <10             | <10               |
| 28295 | MW 3 58-60' | <10             | <10               |
| 28296 | MW 3 63-65' | <10             | <10               |

|       |     |     |
|-------|-----|-----|
| % IA  | 79  | 104 |
| % EA  | 79  | 84  |
| BLANK | <10 | <10 |

METHODS: SW 846-8015M GRO/DRO

  
Raland K. Tuttle

7-24-00  
Date

Environmental Lab of Texas, Inc. 12600 West I-20 East Odessa, Texas 79763  
(915) 563-1800 FAX (915) 563-1713

Project Manager: JESSE TAYLOR

Phone #: (915) 397-4882  
FAX #: (915) 397-4701

Company Name & Address: E.T.I.

2540 W MARLEND HOBBS NM 88242

Project #:

EOT 20590

Project Name:

DAER ANGELL 3

Project Location:

LEA COUNTY, NM

Sampler Signature:

*Simon Casas*

| LAB #<br>(1-6 USE 1 UNIT) | FIELD CODE  | # CONTAINERS | Volume/Amount | MATRIX |      |     |        |       | PRESERVATIVE METHOD |      |     |      | SAMPLING |      | DATE | TIME |
|---------------------------|-------------|--------------|---------------|--------|------|-----|--------|-------|---------------------|------|-----|------|----------|------|------|------|
|                           |             |              |               | WATER  | SOIL | AIR | SLUDGE | OTHER | HCL                 | HNO3 | ICE | NONE | OTHER    | DATE |      |      |
| 28256                     | MW 2 0-2'   | 1            | 400           | X      |      |     |        |       |                     | X    |     |      |          |      | 7-14 | 0800 |
| 28257                     | MW 2 3-5'   |              |               |        |      |     |        |       |                     |      |     |      |          |      |      | 0850 |
| 28258                     | MW 2 8-10'  |              |               |        |      |     |        |       |                     |      |     |      |          |      |      | 0900 |
| 28259                     | MW 2 13-15' |              |               |        |      |     |        |       |                     |      |     |      |          |      |      | 0910 |
| 28260                     | MW 2 18-20' |              |               |        |      |     |        |       |                     |      |     |      |          |      |      | 0915 |
| 28261                     | MW 2 23-25' |              |               |        |      |     |        |       |                     |      |     |      |          |      |      | 0930 |
| 28262                     | MW 2 28-30' |              |               |        |      |     |        |       |                     |      |     |      |          |      |      | 0950 |
| 28263                     | MW 2 33-35' |              |               |        |      |     |        |       |                     |      |     |      |          |      |      | 1000 |
| 28264                     | MW 2 38-40' |              |               |        |      |     |        |       |                     |      |     |      |          |      |      | 1020 |
| 28265                     | MW 2 43-45' |              |               |        |      |     |        |       |                     |      |     |      |          |      |      | 1030 |
| 28266                     | MW 2 48-50' |              |               |        |      |     |        |       |                     |      |     |      |          |      |      | 1045 |
|                           |             |              |               |        |      |     |        |       |                     |      |     |      |          |      |      |      |
|                           |             |              |               |        |      |     |        |       |                     |      |     |      |          |      |      |      |
|                           |             |              |               |        |      |     |        |       |                     |      |     |      |          |      |      |      |
|                           |             |              |               |        |      |     |        |       |                     |      |     |      |          |      |      |      |
|                           |             |              |               |        |      |     |        |       |                     |      |     |      |          |      |      |      |
|                           |             |              |               |        |      |     |        |       |                     |      |     |      |          |      |      |      |
|                           |             |              |               |        |      |     |        |       |                     |      |     |      |          |      |      |      |
|                           |             |              |               |        |      |     |        |       |                     |      |     |      |          |      |      |      |
|                           |             |              |               |        |      |     |        |       |                     |      |     |      |          |      |      |      |
|                           |             |              |               |        |      |     |        |       |                     |      |     |      |          |      |      |      |
|                           |             |              |               |        |      |     |        |       |                     |      |     |      |          |      |      |      |
|                           |             |              |               |        |      |     |        |       |                     |      |     |      |          |      |      |      |
|                           |             |              |               |        |      |     |        |       |                     |      |     |      |          |      |      |      |
|                           |             |              |               |        |      |     |        |       |                     |      |     |      |          |      |      |      |
|                           |             |              |               |        |      |     |        |       |                     |      |     |      |          |      |      |      |
|                           |             |              |               |        |      |     |        |       |                     |      |     |      |          |      |      |      |
|                           |             |              |               |        |      |     |        |       |                     |      |     |      |          |      |      |      |
|                           |             |              |               |        |      |     |        |       |                     |      |     |      |          |      |      |      |
|                           |             |              |               |        |      |     |        |       |                     |      |     |      |          |      |      |      |
|                           |             |              |               |        |      |     |        |       |                     |      |     |      |          |      |      |      |
|                           |             |              |               |        |      |     |        |       |                     |      |     |      |          |      |      |      |
|                           |             |              |               |        |      |     |        |       |                     |      |     |      |          |      |      |      |
|                           |             |              |               |        |      |     |        |       |                     |      |     |      |          |      |      |      |
|                           |             |              |               |        |      |     |        |       |                     |      |     |      |          |      |      |      |
|                           |             |              |               |        |      |     |        |       |                     |      |     |      |          |      |      |      |
|                           |             |              |               |        |      |     |        |       |                     |      |     |      |          |      |      |      |
|                           |             |              |               |        |      |     |        |       |                     |      |     |      |          |      |      |      |
|                           |             |              |               |        |      |     |        |       |                     |      |     |      |          |      |      |      |
|                           |             |              |               |        |      |     |        |       |                     |      |     |      |          |      |      |      |
|                           |             |              |               |        |      |     |        |       |                     |      |     |      |          |      |      |      |
|                           |             |              |               |        |      |     |        |       |                     |      |     |      |          |      |      |      |
|                           |             |              |               |        |      |     |        |       |                     |      |     |      |          |      |      |      |
|                           |             |              |               |        |      |     |        |       |                     |      |     |      |          |      |      |      |
|                           |             |              |               |        |      |     |        |       |                     |      |     |      |          |      |      |      |
|                           |             |              |               |        |      |     |        |       |                     |      |     |      |          |      |      |      |
|                           |             |              |               |        |      |     |        |       |                     |      |     |      |          |      |      |      |
|                           |             |              |               |        |      |     |        |       |                     |      |     |      |          |      |      |      |
|                           |             |              |               |        |      |     |        |       |                     |      |     |      |          |      |      |      |
|                           |             |              |               |        |      |     |        |       |                     |      |     |      |          |      |      |      |
|                           |             |              |               |        |      |     |        |       |                     |      |     |      |          |      |      |      |
|                           |             |              |               |        |      |     |        |       |                     |      |     |      |          |      |      |      |
|                           |             |              |               |        |      |     |        |       |                     |      |     |      |          |      |      |      |
|                           |             |              |               |        |      |     |        |       |                     |      |     |      |          |      |      |      |
|                           |             |              |               |        |      |     |        |       |                     |      |     |      |          |      |      |      |
|                           |             |              |               |        |      |     |        |       |                     |      |     |      |          |      |      |      |
|                           |             |              |               |        |      |     |        |       |                     |      |     |      |          |      |      |      |
|                           |             |              |               |        |      |     |        |       |                     |      |     |      |          |      |      |      |
|                           |             |              |               |        |      |     |        |       |                     |      |     |      |          |      |      |      |
|                           |             |              |               |        |      |     |        |       |                     |      |     |      |          |      |      |      |
|                           |             |              |               |        |      |     |        |       |                     |      |     |      |          |      |      |      |
|                           |             |              |               |        |      |     |        |       |                     |      |     |      |          |      |      |      |
|                           |             |              |               |        |      |     |        |       |                     |      |     |      |          |      |      |      |
|                           |             |              |               |        |      |     |        |       |                     |      |     |      |          |      |      |      |
|                           |             |              |               |        |      |     |        |       |                     |      |     |      |          |      |      |      |
|                           |             |              |               |        |      |     |        |       |                     |      |     |      |          |      |      |      |
|                           |             |              |               |        |      |     |        |       |                     |      |     |      |          |      |      |      |
|                           |             |              |               |        |      |     |        |       |                     |      |     |      |          |      |      |      |
|                           |             |              |               |        |      |     |        |       |                     |      |     |      |          |      |      |      |
|                           |             |              |               |        |      |     |        |       |                     |      |     |      |          |      |      |      |
|                           |             |              |               |        |      |     |        |       |                     |      |     |      |          |      |      |      |
|                           |             |              |               |        |      |     |        |       |                     |      |     |      |          |      |      |      |

|                                        |                  |                |                                               |               |                                                               |
|----------------------------------------|------------------|----------------|-----------------------------------------------|---------------|---------------------------------------------------------------|
| Relinquished by:<br><i>Simon Casas</i> | Date:<br>7/18/00 | Time:<br>0800  | Received by:<br><i>Jeff Patten</i>            | Time:<br>0800 | Remarks:<br>Fax Results: HOBBS OFFICE<br>28°F<br>Invoice: EOT |
| Relinquished by:                       | Date:            | Time:          | Received by:                                  | Time:         |                                                               |
| Relinquished by:<br><i>Jeff Patten</i> | Date:<br>7/18/00 | Time:<br>16:45 | Received by Laboratory:<br><i>Jeff Patten</i> | Time:         |                                                               |

CHAIN-OF-CUSTODY RECORD AND ANALYSIS REQUEST

ANALYSIS REQUEST

600 # 191

TPH 8015 20015-02  
TCLP Metals Ag As Ba Cd Cr Pb Hg Se  
Total Metals Ag As Ba Cd Cr Pb Hg Se  
TCLP Volatiles  
TCLP Semi Volatiles  
TDS  
RCI

Environmental Lab of Texas, Inc. 12600 West I-20 East Odessa, Texas 79763  
(915) 563-1800 FAX (915) 563-1713

Project Manager: Jesse Tarrax Phone #: (915) 397-4882  
FAX #: (915) 397-4701

Company Name & Address: ETI, Inc.  
2540 W MARLAND HOBBS NM 88242

Project #: LOT 2059C Project Name: DARR AMBEC 3

Project Location: LEA COUNTY NM Sampler Signature: [Signature]

| I-S-B #<br>(LAB USE ONLY) | FIELD CODE   | # CONTAINERS | Volume/Amount | MATRIX |      |     |        |       | PRESERVATIVE METHOD |      |     |      | SAMPLING |      |      |
|---------------------------|--------------|--------------|---------------|--------|------|-----|--------|-------|---------------------|------|-----|------|----------|------|------|
|                           |              |              |               | WATER  | SOIL | AIR | SLUDGE | OTHER | HCL                 | HNO3 | ICE | NONE | OTHER    | DATE | TIME |
| 28267                     | MW 2 53'-55' | 1            | 402           | X      |      |     |        |       |                     | X    |     |      |          | 7-14 | 1102 |
| 28268                     | MW 2 58'-60' |              |               |        |      |     |        |       |                     |      |     |      |          |      | 1124 |
| 28269                     | MW 2 63'-65' |              |               |        |      |     |        |       |                     |      |     |      |          |      | 1200 |
| 28270                     | SD-9 0-2'    |              |               |        |      |     |        |       |                     |      |     |      |          |      | 1306 |
| 28271                     | SD-9 3-5'    |              |               |        |      |     |        |       |                     |      |     |      |          |      | 1308 |
| 28272                     | SD-9 8-10'   |              |               |        |      |     |        |       |                     |      |     |      |          |      | 1325 |
| 28273                     | SD-9 13-15'  |              |               |        |      |     |        |       |                     |      |     |      |          |      | 1345 |
| 28274                     | SD-9 18-20'  |              |               |        |      |     |        |       |                     |      |     |      |          |      | 1400 |
| 28275                     | SD-9 23-25'  |              |               |        |      |     |        |       |                     |      |     |      |          |      | 1420 |
| 28276                     | SD-9 28-30'  |              |               |        |      |     |        |       |                     |      |     |      |          |      | 1430 |
| 28277                     | SD-9 33-35'  | ✓            |               |        |      |     |        |       |                     |      |     |      |          | ✓    | 1500 |

REMARKS

TPH 805-206.00  
BTX 8020  
TCLP Metals Ag As Ba Cd Cr Pb Hg Se  
TCLP Metals Ag As Ba Cd Cr Pb Hg Se  
TCLP Volatiles  
TCLP Semi Volatiles  
TDS  
RCI

|                                              |                      |                    |                                            |
|----------------------------------------------|----------------------|--------------------|--------------------------------------------|
| Relinquished by: <u>[Signature]</u>          | Date: <u>7/18/00</u> | Time: <u>0800</u>  | Received by: <u>Jessy P. [Signature]</u>   |
| Relinquished by: <u>[Signature]</u>          | Date: <u></u>        | Time: <u></u>      | Received by: <u></u>                       |
| Relinquished by: <u>Jessy P. [Signature]</u> | Date: <u>7/18/00</u> | Time: <u>16145</u> | Received by Laboratory: <u>[Signature]</u> |

INVOICE: 5077

280F  
Fax Results: HOBBS OFFICE

CHAIN-OF-CUSTODY RECORD AND ANALYSIS REQUEST  
600 # 191

Environmental Lab of Texas, Inc. 12600 West I-20 East Odessa, Texas 79763  
(915) 563-1800 FAX (915) 563-1713

Project Manager: JESSE TAYLOR Phone #: (915) 397-4882  
FAX #: (915) 397-4701

Company Name & Address: E.T.I.  
2540 W. MARCELAND HOBBS NM 88242

Project No.: 20740 Project Name: DWELL ANALYSIS #3  
Project Location: 450 COUNTRY HWY

Sample Signature: *[Signature]*

| LAB #<br>(USE ONLY) | FIELD CODE  | # CONTAINERS | Volume/Amount | MATRIX |      |     |        |       | PRESERVATIVE METHOD |      |     |      |       | SAMPLING |      |
|---------------------|-------------|--------------|---------------|--------|------|-----|--------|-------|---------------------|------|-----|------|-------|----------|------|
|                     |             |              |               | WATER  | SOIL | AIR | SLUDGE | OTHER | HCL                 | HNO3 | ICE | NONE | OTHER | DATE     | TIME |
| 28281               | 53-9 53-40' | 1            | 200           | X      |      |     |        |       |                     |      | X   |      |       | 7-14     | 1520 |
| 28282               | 53-9 53-45' |              |               |        |      |     |        |       |                     |      |     |      |       | 7-14     | 1542 |
| 28283               | 53-9 53-50' |              |               |        |      |     |        |       |                     |      |     |      |       | 7-14     | 1605 |
| 28284               | 53-9 53-55' |              |               |        |      |     |        |       |                     |      |     |      |       | 7-14     | 1630 |
| 28285               | 53-9 53-60' | 1            | 1             |        | X    |     |        |       |                     |      | X   |      |       | 7-17     | 1700 |
| 28286               | MW 3 0-2'   |              |               |        |      |     |        |       |                     |      |     |      |       | 7-17     | 0850 |
| 28287               | MW 3 3-5'   |              |               |        |      |     |        |       |                     |      |     |      |       | 7-17     | 0853 |
| 28288               | MW 3 8-10'  |              |               |        |      |     |        |       |                     |      |     |      |       | 7-17     | 0858 |
| 28289               | MW 3 13-15' |              |               |        |      |     |        |       |                     |      |     |      |       | 7-17     | 0903 |
| 28290               | MW 3 18-20' |              |               |        |      |     |        |       |                     |      |     |      |       | 7-17     | 0910 |
| 28291               | MW 3 23-25' | 1            | 1             |        | X    |     |        |       |                     |      |     |      |       | 7-17     | 0920 |

REMARKS

FAX RESULTS: HOBBS OFFICE  
28 OF

INVOICE: 5077

CHAIN-OF-CUSTODY RECORD AND ANALYSIS REQUEST

ANALYSIS REQUEST

TPH ~~805~~ 805/600  
TCLP Metals Ag As Ba Cd Cr Pb Hg Se  
TCLP Volatiles  
TCLP Semi Volatiles  
TDS  
RCI

Environmental Lab of Texas, Inc. 12600 West I-20 East Odessa, Texas 79763  
(915) 563-1800 FAX (915) 563-1713

Project Manager: JESSE TAYLOR Phone #: (915) 312-4882  
FAX #: (915) 312-4701

Company Name & Address: E.T. G.I.  
2540 W MARLAND HOBBY NM 88242

Project #: EOT 2059C Project Name: DARR ANGELL #3

Project Location: LEN COUNTY NM Sample Signature: [Signature]

| LAB #<br>(146 USE ONLY) | FIELD CODE  | # CONTAINERS | Volume/Amount | MATRIX |      |     |        | PRESERVATIVE METHOD |     |      |     | SAMPLING |       | TIME |      |      |
|-------------------------|-------------|--------------|---------------|--------|------|-----|--------|---------------------|-----|------|-----|----------|-------|------|------|------|
|                         |             |              |               | WATER  | SOIL | AIR | SLUDGE | OTHER               | HCL | HNO3 | ICE | NONE     | OTHER |      |      |      |
|                         |             |              |               |        |      |     |        |                     |     |      |     |          |       |      |      |      |
| 28284                   | MW 3 28-30' | 1            | 40            | ✓      |      |     |        |                     |     |      | X   |          | 7-17  | 0930 | 0950 |      |
| 28290                   | MW 3 33-35' |              |               |        |      |     |        |                     |     |      |     |          |       |      | 1000 | 1000 |
| 28291                   | MW 3 38-40' |              |               |        |      |     |        |                     |     |      |     |          |       |      | 1020 | 1020 |
| 28292                   | MW 3 43-45' |              |               |        |      |     |        |                     |     |      |     |          |       |      | 1042 | 1042 |
| 28293                   | MW 3 48-50' |              |               |        |      |     |        |                     |     |      |     |          |       |      | 1108 | 1108 |
| 28294                   | MW 3 53-55' |              |               |        |      |     |        |                     |     |      |     |          |       |      | 1125 | 1125 |
| 28295                   | MW 3 58-60' |              |               |        |      |     |        |                     |     |      |     |          |       |      | 1146 | 1146 |
| 28296                   | MW 3 63-65' | ✓            | ✓             | ✓      | ✓    | ✓   | ✓      | ✓                   | ✓   | ✓    | ✓   | ✓        | ✓     | ✓    | 1213 | ✓    |

| Relinquished by:     | Date:          | Time:        | Received by:         | Time: | REMARKS |
|----------------------|----------------|--------------|----------------------|-------|---------|
| <u>Shannon Casas</u> | <u>7-18-00</u> |              | <u>Jessie Taylor</u> |       |         |
| Relinquished by:     | Date:          | Time:        | Received by:         | Time: |         |
|                      |                |              |                      |       |         |
| Relinquished by:     | Date:          | Time:        | Received by:         | Time: |         |
| <u>Shannon Casas</u> | <u>7/18/00</u> | <u>16:45</u> | <u>[Signature]</u>   |       |         |

FAIR RESULTS: HOBBY OFFICE  
28°F

INVOICE: EOT

# ENVIRONMENTAL LAB OF , INC.

"Don't Treat Your Soil Like Dirt!"

ENVIRONMENTAL TECHNOLOGY GROUP, INC.  
ATTN: MR. KEN DUTTON  
P.O. BOX 4845  
MIDLAND, TEXAS 79704  
FAX: 520-4310  
FAX: 505-397-4701

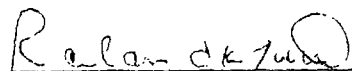
Sample Type: Soil  
Sample Condition: Intact/ Iced/ -1.0 deg C  
Project #: EOT 2075R  
Project Name: Darr Angell 4  
Project Location: Lea County, N.M.

Sampling Date: 04/18/01  
Receiving Date: 04/19/01  
Analysis Date: 04/24/01

| ELT#  | FIELD CODE   | BENZENE<br>mg/kg | TOLUENE<br>mg/kg | ETHYLBENZENE<br>mg/kg | m,p-XYLENE<br>mg/kg | o-XYLENE<br>mg/kg |
|-------|--------------|------------------|------------------|-----------------------|---------------------|-------------------|
| 39375 | GP-001 0-48" | <0.025           | <0.025           | <0.025                | <0.025              | <0.025            |
| 39376 | GP-002 0-24" | <0.025           | <0.025           | <0.025                | <0.025              | <0.025            |
| 39377 | GP-003 0-24" | <0.025           | <0.025           | <0.025                | <0.025              | <0.025            |
| 39378 | GP-004 0-24" | <0.025           | <0.025           | <0.025                | <0.025              | <0.025            |
| 39392 | GP-018 0-48" | <0.025           | <0.025           | <0.025                | <0.025              | <0.025            |
| 39395 | GP-021 0-12" | <0.025           | <0.025           | <0.025                | <0.025              | <0.025            |
| 39399 | GP-025 0-12" | <0.025           | <0.025           | <0.025                | <0.025              | <0.025            |
| 39400 | GP-026 0-36" | <0.025           | <0.025           | <0.025                | <0.025              | <0.025            |
| 39401 | GP-027 0-12" | <0.025           | <0.025           | <0.025                | <0.025              | <0.025            |
| 39402 | GP-028 0-12" | <0.025           | <0.025           | <0.025                | <0.025              | <0.025            |
| 39404 | GP-030 0-12" | <0.025           | <0.025           | <0.025                | <0.025              | <0.025            |

|       |        |        |        |        |        |
|-------|--------|--------|--------|--------|--------|
| %IA   | 92     | 98     | 101    | 100    | 101    |
| %EA   | 90     | 95     | 99     | 98     | 101    |
| BLANK | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 |

METHODS: EPA SW 846-8021B, 5030

  
Ralanc K. Tuttle

4-27-01  
Date

# ENVIRONMENTAL LAB OF , INC.

"Don't Treat Your Soil Like Dirt!"

ENVIRONMENTAL TECHNOLOGY GROUP, INC.  
ATTN: MR. KEN DUTTON  
P.O. BOX 4845  
MIDLAND, TEXAS 79704  
FAX: 520-4310  
FAX: 505-397-4701

Sample Type: Soil  
Sample Condition: Intact/ Iced/ -1.0 deg C  
Project #: EOT 2075R  
Project Name: Darr Angell 4  
Project Location: Lea County, N.M.

Sampling Date: 04/18/01  
Receiving Date: 04/19/01  
Analysis Date: 04/23/01

| ELT#  | FIELD CODE   | BENZENE<br>mg/kg | TOLUENE<br>mg/kg | ETHYLBENZENE<br>mg/kg | m,p-XYLENE<br>mg/kg | o-XYLENE<br>mg/kg |
|-------|--------------|------------------|------------------|-----------------------|---------------------|-------------------|
| 39379 | GP-005 0-24" | <0.025           | <0.025           | <0.025                | <0.025              | <0.025            |
| 39380 | GP-006 0-18" | <0.025           | <0.025           | <0.025                | <0.025              | <0.025            |
| 39381 | GP-007 0-24" | <0.025           | <0.025           | <0.025                | <0.025              | <0.025            |
| 39382 | GP-008 0-15" | <0.025           | <0.025           | <0.025                | <0.025              | <0.025            |
| 39383 | GP-009 0-24" | <0.025           | <0.025           | <0.025                | <0.025              | <0.025            |
| 39385 | GP-011 0-24" | <0.025           | <0.025           | <0.025                | <0.025              | <0.025            |
| 39386 | GP-012 0-18" | <0.025           | <0.025           | <0.025                | <0.025              | <0.025            |
| 39387 | GP-013 0-24" | <0.025           | <0.025           | <0.025                | <0.025              | <0.025            |
| 39388 | GP-014 0-12" | <0.025           | <0.025           | <0.025                | <0.025              | <0.025            |
| 39389 | GP-015 0-18" | <0.025           | <0.025           | <0.025                | <0.025              | <0.025            |

|       |        |        |        |        |        |
|-------|--------|--------|--------|--------|--------|
| %IA   | 90     | 93     | 97     | 104    | 97     |
| %EA   | 91     | 97     | 100    | 111    | 102    |
| BLANK | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 |

METHODS: EPA SW 846-8021B, 5030

Ralanda K Tuttle  
Ralanda K. Tuttle

4-27-01  
Date

# ENVIRONMENTAL

## LAB OF , INC.

"Don't Treat Your Soil Like Dirt!"

ENVIRONMENTAL TECHNOLOGY GROUP, INC.

ATTN: MR. KEN DUTTON

P.O. BOX 4845

MIDLAND, TEXAS 79704

FAX: 520-4310

FAX: 505-397-4701

Sample Type: Soil

Sample Condition: Intact/ Iced/ -1.0 deg C

Project #: EOT 2075R

Project Name: Darr Angell 4

Project Location: Lea County, N.M.

Sampling Date: 04/18/01

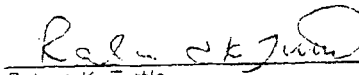
Receiving Date: 04/19/01

Analysis Date: 04/27/01

| ELT#  | FIELD CODE   | BENZENE<br>mg/kg | TOLUENE<br>mg/kg | ETHYLBENZENE<br>mg/kg | m,p-XYLENE<br>mg/kg | o-XYLENE<br>mg/kg |
|-------|--------------|------------------|------------------|-----------------------|---------------------|-------------------|
| 39391 | GP-017 0-48" | <0.025           | <0.025           | <0.025                | <0.025              | <0.025            |

|       |        |        |        |        |        |
|-------|--------|--------|--------|--------|--------|
| %IA   | 89     | 90     | 92     | 99     | 92     |
| %EA   | 92     | 94     | 95     | 104    | 96     |
| BLANK | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 |

METHODS: EPA SW 846-8021B, 8030

  
Ralene K. Tuttle

4-29-01  
Date



SEP 10 02 02:00P

# ENVIRONMENTAL LAB OF , INC.

"Don't Treat Your Soil Like Dirt!"

ENVIRONMENTAL TECHNOLOGY GROUP, INC.  
ATTN: MR. KEN DUTTON  
P.O. BOX 4845  
MIDLAND, TEXAS 79704  
FAX: 520-4310  
FAX: 505-397-4701

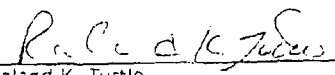
Sample Type: Soil  
Sample Condition: Intact/ Iced/ -1.0 deg C  
Project #: EOT 2075R  
Project Name: Darr Angell 4  
Project Location: Lea County, N.M.

Sampling Date: 04/18/01  
Receiving Date: 04/19/01  
Analysis Date: 04/24/01

| ELT#  | FIELD CODE   | BENZENE<br>mg/kg | TOLUENE<br>mg/kg | ETHYLBENZENE<br>mg/kg | m,p-XYLENE<br>mg/kg | o-XYLENE<br>mg/kg |
|-------|--------------|------------------|------------------|-----------------------|---------------------|-------------------|
| 39409 | GP-035 0-12" | <0.025           | <0.025           | <0.025                | <0.025              | <0.025            |
| 39417 | GP-043 0-15" | <0.025           | <0.025           | <0.025                | <0.025              | <0.025            |
| 39419 | GP-045 0-4"  | 5.49             | 144              | 76.0                  | 226                 | 76.8              |
| 39420 | GP-046 0-3"  | <0.025           | <0.025           | <0.025                | <0.025              | <0.025            |

|       |        |        |        |        |        |
|-------|--------|--------|--------|--------|--------|
| %iA   | 92     | 93     | 95     | 103    | 95     |
| %EA   | 89     | 90     | 91     | 99     | 92     |
| BLANK | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 |

METHODS: EPA SW 846-8021B, 5030

  
Ralard K. Tuttle

4-27-01  
Date

# ENVIRONMENTAL LAB OF , INC.

"Don't Treat Your Soil Like Dirt!"

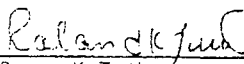
ENVIRONMENTAL TECHNOLOGY GROUP, INC.  
ATTN: MR. KEN DUTTON  
P.O. BOX 4845  
MIDLAND, TEXAS 79704  
FAX: 520-4310  
FAX: 505-397-4701

Sample Type: Soil  
Sample Condition: Intact/ Iced/ -1.0 deg C  
Project #: EOT 2075R  
Project Name: Darr Angell 4  
Project Location: Lea County, N.M.

Sampling Date: 04/18/01  
Receiving Date: 04/19/01  
Analysis Date: 04/25/01

| ELT#  | FIELD CODE   | GRO             | DRO               |
|-------|--------------|-----------------|-------------------|
|       |              | C6-C10<br>mg/kg | >C10-C28<br>mg/kg |
| 39375 | GP-001 0-48" | <10             | <10               |
| 39376 | GP-002 0-24" | <10             | <10               |
| 39377 | GP-003 0-24" | <10             | <10               |
| 39378 | GP-004 0-24" | <10             | <10               |
| 39379 | GP-005 0-24" | <10             | <10               |
| 39380 | GP-006 0-18" | <10             | 213               |
| 39381 | GP-007 0-24" | <10             | <10               |
| 39382 | GP-008 0-15" | <10             | <10               |
| 39383 | GP-009 0-24" | <10             | <10               |
| % IA  |              | 89              | 94                |
| %EA   |              | 109             | 113               |
| BLANK |              | <10             | <10               |

Methods: EPA SW 846-8015M GRO/DRO

  
Roland K. Tuttle

4-27-01  
Date

# ENVIRONMENTAL

## LAB OF , INC.

"Don't Treat Your Soil Like Dirt!"

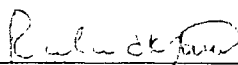
ENVIRONMENTAL TECHNOLOGY GROUP, INC.  
ATTN: MR. KEN DUTTON  
P.O. BOX 4845  
MIDLAND, TEXAS 79704  
FAX: 520-4310  
FAX: 505-397-4701

Sample Type: Soil  
Sample Condition: Intact/ Iced/ -1.0 deg C  
Project #: EOT 2075R  
Project Name: Darr Angell 4  
Project Location: Lea County, N.M.

Sampling Date: 04/18/01  
Receiving Date: 04/19/01  
Analysis Date: 04/26/01

| ELT#  | FIELD CODE   | GRO             | DRO               |
|-------|--------------|-----------------|-------------------|
|       |              | C6-C10<br>mg/kg | >C10-C28<br>mg/kg |
| 39384 | GP-010 0-24" | <10             | <10               |
| 39385 | GP-011 0-24" | <10             | <10               |
| 39386 | GP-012 0-18" | <10             | <10               |
| 39387 | GP-013 0-24" | <10             | <10               |
| 39388 | GP-014 0-12" | <10             | <10               |
| 39389 | GP-015 0-18" | <10             | <10               |
| 39390 | GP-016 0-15" | <10             | 1193              |
| 39391 | GP-017 0-48" | <10             | <10               |
| 39392 | GP-018 0-48" | <10             | <10               |
| 39393 | GP-019 0-48" | <10             | <10               |
| 39394 | GP-020 0-48" | <10             | <10               |
| 39395 | GP-021 0-12" | <10             | <10               |
| 39396 | GP-022 0-12" | <10             | <10               |
| 39397 | GP-023 0-12" | <10             | <10               |
| 39398 | GP-024 0-12" | <10             | <10               |
| 39399 | GP-025 0-12" | <10             | <10               |
| 39400 | GP-026 0-36" | <10             | <10               |
| 39401 | GP-027 0-12" | <10             | <10               |
| 39402 | GP-028 0-12" | <10             | <10               |
| 39403 | GP-029 0-12" | <10             | <10               |
|       | % IA         | 88              | 91                |
|       | %EA          | 94              | 90                |
|       | BLANK        | <10             | <10               |

Methods: EPA SW 846-8015M GRO/DRO

  
Roland K. Tuttle

4-27-01  
Date

# ENVIRONMENTAL LAB OF , INC.

"Don't Treat Your Soil Like Dirt!"

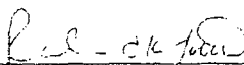
ENVIRONMENTAL TECHNOLOGY GROUP, INC.  
ATTN: MR. KEN CUTTON  
P.O. BOX 4845  
MIDLAND, TEXAS 79704  
FAX: 520-4310  
FAX: 505-397-4701

Sample Type: Soil  
Sample Condition: Intact/ Iced/ -1.0 deg C  
Project #: EOT 2075R  
Project Name: Darr Ange!! 4  
Project Location: Lea County, N.M.

Sampling Date: 04/18/01  
Receiving Date: 04/19/01  
Analysis Date: 04/26/01

| ELT#  | FIELD CODE   | GRO             | DRO               |
|-------|--------------|-----------------|-------------------|
|       |              | C6-C10<br>mg/kg | >C10-C28<br>mg/kg |
| 39404 | GP-030 0-12" | <10             | <10               |
| 39405 | GP-031 0-36" | <10             | <10               |
| 39406 | GP-032 0-12" | <10             | <10               |
| 39407 | GP-033 0-12" | <10             | <10               |
| 39408 | GP-034 0-12" | <10             | <10               |
| 39409 | GP-035 0-12" | <10             | <10               |
| 39410 | GP-036 0-12" | <10             | <10               |
| 39411 | GP-037 0-15" | <10             | <10               |
| 39412 | GP-038 0-12" | <10             | <10               |
| 39413 | GP-039 0-48" | <10             | <10               |
| 39414 | GP-040 0-12" | <10             | <10               |
| 39415 | GP-041 0-12" | <10             | <10               |
| 39416 | GP-042 0-12" | <10             | <10               |
| 39417 | GP-043 0-15" | <10             | <10               |
| 39418 | GP-044 0-36" | <10             | <10               |
| 39419 | GP-045 0-4"  | 9059            | 18868             |
| 39420 | GP-046 0-3"  | <10             | 381               |
| 39421 | GP-047 0-12" | <10             | 185               |
| 39422 | GP-048 0-12" | 70              | 2615              |
| 39423 | GP-049 0-12" | 45              | 1303              |
|       | % IA         | 102             | 111               |
|       | %EA          | 89              | 101               |
|       | BLANK        | <10             | <10               |

Methods: EPA SW 846-8015M GRO/DRO

  
Roland K. Fiddle

4-27-01  
Date



## EOTT ENERGY CORP. Projects Only

4803 West Vail  
Midland TX 79703  
Tel (505) 522-1139  
Fax (505) 526-1310

2540 West Midland  
Midland, TX 79702  
Tel (505) 307-4802  
Fax (505) 537-4701

EOTT ENERGY CORP.  
East Business 20  
TX 79702  
(915) 687-3400  
(915) 582-2781

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

ANALYSIS REQUEST  
(Circle or Specify Method No.)

| Project Manager  |        | EOTT Leak Number: |   | ETGI Project Number |      | Sampler Signature   |     | SAMPLING         |                    |     |      |      |      |
|------------------|--------|-------------------|---|---------------------|------|---------------------|-----|------------------|--------------------|-----|------|------|------|
| Ken Dutton       |        | EOT 2075 R        |   | EOT 2075 R          |      | EOT 2075 R          |     | SAMPLING         |                    |     |      |      |      |
| Project Name     |        | Lea County, NM    |   | Matrix              |      | Preservation Method |     | Time             |                    |     |      |      |      |
| Project Location |        | Lea County, NM    |   | Matrix              |      | Preservation Method |     | Time             |                    |     |      |      |      |
| LAB #            |        | FIELD CODE        |   | Matrix              |      | Preservation Method |     | Time             |                    |     |      |      |      |
| (Lab Use Only)   |        | FIELD CODE        |   | Matrix              |      | Preservation Method |     | Time             |                    |     |      |      |      |
| 39357            | GP-013 | 0-24"             | 1 | WATER               | SOIL | SLUDGE              | HCL | HNO <sub>3</sub> | NaHSO <sub>4</sub> | ICP | NONE | DATE | TIME |
| 39358            | GP-014 | 0-12"             |   |                     |      |                     |     |                  |                    |     |      | 4-18 | 0920 |
| 39359            | GP-015 | 0-18"             |   |                     |      |                     |     |                  |                    |     |      |      | 0925 |
| 39360            | GP-016 | 0-15"             |   |                     |      |                     |     |                  |                    |     |      |      | 0932 |
| 39361            | GP-017 | 0-48"             |   |                     |      |                     |     |                  |                    |     |      |      | 0957 |
| 39362            | GP-018 | 0-48"             |   |                     |      |                     |     |                  |                    |     |      |      | 1005 |
| 39363            | GP-019 | 0-48"             |   |                     |      |                     |     |                  |                    |     |      |      | 1016 |
| 39364            | GP-020 | 0-48"             |   |                     |      |                     |     |                  |                    |     |      |      | 1020 |
| 39365            | GP-021 | 0-12"             |   |                     |      |                     |     |                  |                    |     |      |      | 1026 |
| 39366            | GP-022 | 0-12"             |   |                     |      |                     |     |                  |                    |     |      |      | 1039 |
| 39367            | GP-023 | 0-12"             |   |                     |      |                     |     |                  |                    |     |      |      | 1045 |
| 39368            | GP-024 | 0-12"             |   |                     |      |                     |     |                  |                    |     |      |      | 1051 |
| 39369            | GP-024 | 0-12"             |   |                     |      |                     |     |                  |                    |     |      |      | 1056 |

REMARKS:

-10°C

Time:

Date:

Received by:

Time:

Date:

Relinquished by:

Time:

Date:

Time:

Date:

Received at Lab by:

Time:

Date:

Relinquished by:

Time:

Date:



For Use On: EOTT ENERGY CORP. Projects Only

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

5805  
Midland,  
TX 79702  
Tel (505) 337-4882  
Fax (505) 337-4701  
(915) 582-2781

ANALYSIS REQUEST  
(Circle of Specity Method No.)

Project Manager: Ken Dutton  
Project Name: Darr Angell & Lea County, NM  
Project Location: Lea County, NM  
ETGI Project Number: EOT 20752  
Sampler Signature: [Signature]

| LAB #<br>(Lab Use Only) | FIELD CODE   | # CONTAINERS | Volume/Amount | MATRIX |      |     |        |     |                  | PRESERVATION METHOD |     |      |  |      | DATE | TIME |
|-------------------------|--------------|--------------|---------------|--------|------|-----|--------|-----|------------------|---------------------|-----|------|--|------|------|------|
|                         |              |              |               | WATER  | SOIL | AIR | SLUDGE | HCL | HNO <sub>3</sub> | NaHSO <sub>4</sub>  | ICE | NONE |  |      |      |      |
| 33411                   | GP-037 0-15" | 1            |               | X      |      |     |        |     |                  |                     | X   |      |  | 4/18 | 1352 |      |
| 33412                   | GP-038 0-12" | 1            |               |        |      |     |        |     |                  |                     |     |      |  |      | 1357 |      |
| 33413                   | GP-039 0-48" | 1            |               |        |      |     |        |     |                  |                     |     |      |  |      | 1405 |      |
| 33414                   | GP-040 0-12" | 1            |               |        |      |     |        |     |                  |                     |     |      |  |      | 1415 |      |
| 33415                   | GP-041 0-12" | 1            |               |        |      |     |        |     |                  |                     |     |      |  |      | 1433 |      |
| 33416                   | GP-042 0-12" | 1            |               |        |      |     |        |     |                  |                     |     |      |  |      | 1450 |      |
| 33417                   | GP-043 0-15" | 1            |               |        |      |     |        |     |                  |                     |     |      |  |      | 1500 |      |
| 33418                   | GP-044 0-36" | 1            |               |        |      |     |        |     |                  |                     |     |      |  |      | 1505 |      |
| 33419                   | GP-045 0-4"  | 1            |               |        |      |     |        |     |                  |                     |     |      |  |      | 1515 |      |
| 33420                   | GP-046 0-3"  | 1            |               |        |      |     |        |     |                  |                     |     |      |  |      | 1520 |      |
| 33421                   | GP-047 0-12" | 1            |               |        |      |     |        |     |                  |                     |     |      |  |      | 1525 |      |
| 33422                   | GP-048 0-12" | 1            |               |        |      |     |        |     |                  |                     |     |      |  |      | 1531 |      |

Relinquished by: [Signature] Date: 4/18/13 Time: 1330  
Received by: [Signature] Date: 4/18/13 Time: 1330  
Relinquished by: [Signature] Date: 4/18/13 Time: 1330  
Received by: [Signature] Date: 4/18/13 Time: 1330

-1.0 °C

REMARKS:





**Client:** Environmental Tech Group  
**Attn:** Ken Dutton  
**Address:** 2540 W. Maryland  
Hobbs Nm 88240  
**Phone:** 505 397 4882 **FAX:** 505 397-4701

**Report#/Lab ID#:** 117334 **Report Date:** 08/13/01  
**Project ID:** Dair Angell #4 EOT 2075C  
**Sample Name:** MW4 0'-2'  
**Sample Matrix:** soil  
**Date Received:** 07/31/2001 **Time:** 14:43  
**Date Sampled:** 07/13/2001 **Time:** 11:00

**REPORT OF ANALYSIS**

| Parameter                 | Result | Units | RQL <sup>5</sup> | Blank | Date     | Method <sup>6</sup> | Data Qual <sup>7</sup> | Prec. <sup>2</sup> | Recov. <sup>3</sup> | CCV <sup>4</sup> | LCS <sup>4</sup> |
|---------------------------|--------|-------|------------------|-------|----------|---------------------|------------------------|--------------------|---------------------|------------------|------------------|
| TPH by GC (as diesel)     | 9.7    | mg/Kg | 1                | <1    | 08/10/01 | 8015 mod            | ---                    | 3.1                | 101                 | 106.5            | 92.2             |
| TPH by GC (as diesel-ext) | ---    | ---   | ---              | ---   | 08/02/01 | 3540                | ---                    | -NA-               | -NA-                | -NA-             | -NA-             |
| TPH by GC (as gasoline)   | <5     | mg/Kg | 5                | <5    | 08/06/01 | 8015 mod.           | ---                    | 3.66               | 95.5                | 103.5            | 101.1            |

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Respectfully Submitted,

*Richard Laster*

Richard Laster

1. Quality assurance data is for the sample batch 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 Laboratory Control Sample (LCS) results are expressed as the percent (%) recovery of analyte from a known standard or matrix. 5. Reporting Quantitation Limits (RQL), typically at or above the Practical Quantitation Limit (PQL) of the analytical method. 6. Method numbers typically denote USEPA procedures. Less than ("<") values reflect nominal quantitation limits adjusted for any required dilutions. 7. Data Qualifiers are J = analyte potentially present between the PQL and the MQL; B = Analyte detected in associated method blank(s); S1 = MS and/or MSD recovery exceed advisory limits; S2 = Post digestion spike (PDS) recovery exceeds advisory limit; S3 = MS and/or MSD and PDS recoveries exceed advisory limits; P = Precision higher than advisory limit; M = Matrix interference.

Client: Environmental Tech Group  
Attn: Ken Dutton

Project ID: Dair Angell #4 EOT 2075C  
Sample Name: MW4 0'-2'

Report#/Lab ID#: 117331  
Sample Matrix: soil

**REPORT OF SURROGATE RECOVERY**

| Surrogate Compound    | Method    | Recovery | Recovery Limit | Data Qualifiers |
|-----------------------|-----------|----------|----------------|-----------------|
| p-Terphenyl           | 8015 mod  | 92       | 50-150         | ---             |
| Chlorobenzene d5(Sur) | 8015 mod. | 66.1     | 50 - 150       | ---             |

Data Qualifiers: D= Surrogates diluted and X= Surrogates outside advisory recovery limits.

**Client:** Environmental Tech Group

**Attn:** Ken Dutton

**Address:** 2540 W. Maryland  
(Hobbs)

Nm 88240

**Phone:** 505 397-4882 **FAX:** 505 397-4701

**Report#/Lab ID#:** 117335 **Report Date:** 08/13/01

**Project ID:** Dart Angell #4 EOT 2075C

**Sample Name:** MW4 5'-7'

**Sample Matrix:** soil

**Date Received:** 07/31/2001 **Time:** 11:43

**Date Sampled:** 07/13/2001 **Time:** 11:15

## REPORT OF ANALYSIS

| Parameter                 | Result | Units | RQL <sup>5</sup> | Blank | Date     | Method <sup>6</sup> | Data Qual <sup>7</sup> | Prec. <sup>2</sup> | Recov. <sup>3</sup> | CCV <sup>4</sup> | LCS <sup>4</sup> |
|---------------------------|--------|-------|------------------|-------|----------|---------------------|------------------------|--------------------|---------------------|------------------|------------------|
| TPH by GC (as diesel)     | 32.6   | mg/Kg | 1                | <1    | 08/10/01 | 8015 mod            | ---                    | 3.1                | 101                 | 106.5            | 92.2             |
| TPH by GC (as diesel ext) | ---    | ---   | ---              | ---   | 08/02/01 | 3540                | ---                    | -NA-               | -NA-                | -NA-             | -NA-             |
| TPH by GC (as gasoline)   | <5     | mg/Kg | 5                | <5    | 08/06/01 | 8015 mod.           | ---                    | 3.66               | 95.5                | 103.5            | 101.1            |

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Respectfully Submitted,

*Richard Easter*  
Richard Easter

1. Quality assurance data is for the sample batch 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 Laboratory Control Sample (LCS) results are expressed as the percent (%) recovery of analyte from a known standard or matrix. 5. Reporting Quantitation Limits (RQL), typically at or above the Practical Quantitation Limit (PQL) of the analytical method. 6. Method numbers typically denote USEPA procedures. Less than ("<") values reflect nominal quantitation limits adjusted for any required dilutions. 7. Data Qualifiers are J = analyte potentially present between the PQL and the MDL; B = Analyte detected in associated method blank(s); S1 = MS and/or MSD recovery exceed advisory limits; S2 = Post digestion spike (PDS) recovery exceeds advisory limit; S3 = MS and/or MSD and PDS recoveries exceed advisory limits; P = Precision higher than advisory limit; M = Matrix interference.

Client: Environmental Tech Group  
 Attn: Ken Dutton

Project ID: Dart Angell #4 EOT 2075C  
 Sample Name: MW4 5'-7'

Report#/Lab ID#: 117335  
 Sample Matrix: soil

**REPORT OF SURROGATE RECOVERY**

| Surrogate Compound    | Method    | Recovery | Recovery Limit | Data Qualifiers |
|-----------------------|-----------|----------|----------------|-----------------|
| p Terphenyl           | 8015 mod  | 113      | 50-150         | ---             |
| Chlorobenzene d5(Sur) | 8015 mod. | 81.1     | 50 - 150       | ---             |

Data Qualifiers: D= Surrogates diluted and X= Surrogates outside advisory recovery limits.

**Client:** Environmental Tech Group  
**Attn:** Ken Dutton  
**Address:** 2540 W. Maryland  
Hobbs NM 88240  
**Phone:** 505 397-4882 **FAX:** 505 397-4701

**Report#/Lab ID#:** 117336 **Report Date:** 08/13/01  
**Project ID:** Dart Angell #4 EOT 2075C  
**Sample Name:** MW4 10'-12'  
**Sample Matrix:** soil  
**Date Received:** 07/31/2001 **Time:** 14:43  
**Date Sampled:** 07/13/2001 **Time:** 11:27

**REPORT OF ANALYSIS**

| Parameter                 | Result | Units | RQL <sup>5</sup> | Blank | Date     | Method <sup>6</sup> | Data Qual <sup>7</sup> | Prec. <sup>2</sup> | Recov. <sup>3</sup> | CCV <sup>4</sup> | LCS <sup>4</sup> |
|---------------------------|--------|-------|------------------|-------|----------|---------------------|------------------------|--------------------|---------------------|------------------|------------------|
| TPH by GC (as diesel)     | 10     | mg/Kg | 1                | <1    | 08/10/01 | 8015 mod            | ---                    | 3.1                | 101                 | 106.5            | 92.2             |
| TPH by GC (as diesel-ext) | ---    | ---   | ---              | ---   | 08/02/01 | 3540                | ---                    | -NA-               | -NA-                | -NA-             | -NA-             |
| TPH by GC (as gasoline)   | <5     | mg/Kg | 5                | <5    | 08/06/01 | 8015 mod.           | ---                    | 3.66               | 95.5                | 103.5            | 101.1            |

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

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Respectfully Submitted,

*Richard Laster*

Richard Laster

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Client: Environmental Tech Group  
Attn: Ken Dutton

Project ID: Darr Angell #4 EOT 2075C  
Sample Name: MW4 10'-12'

Report#/Lab ID#: 117336  
Sample Matrix: soil

**REPORT OF SURROGATE RECOVERY**

| Surrogate Compound   | Method    | Recovery | Recovery Limit | Data Qualifiers |
|----------------------|-----------|----------|----------------|-----------------|
| p-Terphenyl          | 8015 mod  | 114      | 50-150         | ---             |
| Chlorobenzene-d5(Sm) | 8015 mod. | 75.9     | 50 - 150       | ---             |

Data Qualifiers: D= Surrogates diluted and X= Surrogates outside advisory recovery limits.

**Client:** Environmental Tech Group  
**Attn:** Ken Dutton  
**Address:** 2540 W. Maryland  
 Hobbs NM 88240  
**Phone:** 505 397-4882 **FAX:** 505 397-4701

**Report#/Lab ID#:** 117337 **Report Date:** 08/13/01  
**Project ID:** Dart Angell #4 EOT 2075C  
**Sample Name:** MW4 15'-17'  
**Sample Matrix:** soil  
**Date Received:** 07/31/2001 **Time:** 14:43  
**Date Sampled:** 07/13/2001 **Time:** 11:35

**REPORT OF ANALYSIS**

| Parameter                 | Result | Units | RQL <sup>5</sup> | Blank | Date     | Method <sup>6</sup> | Data Qual <sup>7</sup> | Prec. <sup>2</sup> | Recov. <sup>3</sup> | CCV <sup>4</sup> | L.C.S. <sup>1</sup> |
|---------------------------|--------|-------|------------------|-------|----------|---------------------|------------------------|--------------------|---------------------|------------------|---------------------|
| TPH by GC (as diesel)     | 9.94   | mg/Kg | 1                | <1    | 08/10/01 | 8015 mod            | ---                    | 3.1                | 101                 | 106.5            | 92.2                |
| TPH by GC (as diesel ext) | ---    | ---   | ---              | ---   | 08/02/01 | 3540                | ---                    | -NA-               | -NA-                | -NA-             | -NA-                |
| TPH by GC (as gasoline)   | <5     | mg/Kg | 5                | <5    | 08/06/01 | 8015 mod.           | ---                    | 3.66               | 95.5                | 103.5            | 101.1               |

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Respectfully Submitted,  
*Richard Laster*  
 Richard Laster

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Client: Environmental Tech Group  
Attn: Ken Dutton

Project ID: Darr Angell #4 EOT 2075C  
Sample Name: MW4 15'-17'

Report# / Lab ID#: 117337  
Sample Matrix: soil

**REPORT OF SURROGATE RECOVERY**

| Surrogate Compound    | Method    | Recovery | Recovery Limit | Data Qualifiers |
|-----------------------|-----------|----------|----------------|-----------------|
| p-Terphenyl           | 8015 mod  | 103      | 50-150         | ---             |
| Chlorobenzene d5(Sur) | 8015 mod. | 81.2     | 50 - 150       | ---             |

Data Qualifiers: D= Surrogates diluted and X= Surrogates outside advisory recovery limits.

Client: Environmental Tech Group

Contact: Ken Dutton

Address: 2540 W. Maryland  
Hobbs

Phone: 88240

Phone: 505 397-4882 FAX: 505 397-4701

Report#/Lab ID#: 117338 Report Date: 08/13/01

Project ID: Darr Angell #4 EOT 2075C

Sample Name: MW4 20'-22'

Sample Matrix: soil

Date Received: 07/31/2001 Time: 14:43

Date Sampled: 07/13/2001 Time: 11:42

## PORT OF ANALYSIS

| Parameter              | Result | Units |
|------------------------|--------|-------|
| H by GC (as diesel)    | 4.13   | mg/Kg |
| H by GC (as diesel-ex) | ---    | ---   |
| H by GC (as gasoline)  | <5     | mg/Kg |

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Respectfully Submitted,

*Richard Laster*

Richard Laster

## QUALITY ASSURANCE DATA

| Method    | Data Qual | Prec. | Recovery | CCV   | L.C.S. |
|-----------|-----------|-------|----------|-------|--------|
| 8015 mod  | ---       | 3.1   | 101      | 106.5 | 0.2.9  |
| 3540      | ---       | NA    | NA       | NA    | NA     |
| 8015 mod. | ---       | 3.66  | 95.5     | 103.5 | 101.1  |

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Client: Environmental Tech Group  
Attn: Ken Dutton

Project ID: Darr Angell #4 EOT2075C  
Sample Name: MW4 20'-22'

Report#/Lab ID#: 117338  
Sample Matrix: soil

**REPORT OF SURROGATE RECOVERY**

| Surrogate Compound    | Method    | Recovery | Recovery Limit | Data Qualifiers |
|-----------------------|-----------|----------|----------------|-----------------|
| p Terphenyl           | 8015 mod  | 94.9     | 50-150         | ---             |
| Chlorobenzene-d5(Sur) | 8015 mod. | 75       | 50 - 150       | ---             |

Data Qualifiers: D= Surrogates diluted and X= Surrogates outside advisory recovery limits.

**Client:** Environmental Tech Group  
**Attn:** Ken Button  
**Address:** 2540 W. Maryland  
Hobbs Nm 88240  
**Phone:** 505 397 4882 **FAX:** 505 397-4701

**Report#/Lab ID#:** 117339 **Report Date:** 08/13/01  
**Project ID:** Darr Angell #4 EOT 2075C  
**Sample Name:** MW4 25'-27'  
**Sample Matrix:** soil  
**Date Received:** 07/31/2001 **Time:** 14:43  
**Date Sampled:** 07/16/2001 **Time:** 10:00

**REPORT OF ANALYSIS**

| Parameter                 | Result | Units | RQL <sup>5</sup> | Blank | Date     | Method <sup>6</sup> | Data Qual <sup>7</sup> | Prec. <sup>2</sup> | Recov. <sup>3</sup> | CCV <sup>4</sup> | LCS <sup>4</sup> |
|---------------------------|--------|-------|------------------|-------|----------|---------------------|------------------------|--------------------|---------------------|------------------|------------------|
| TPH by GC (as diesel)     | 2.81   | mg/Kg | 1                | <1    | 08/10/01 | 8015 mod            | ---                    | 3.1                | 101                 | 106.5            | 92.2             |
| TPH by GC (as diesel ext) | ---    | ---   | ---              | ---   | 08/02/01 | 3540                | ---                    | -NA-               | -NA-                | -NA-             | -NA-             |
| TPH by GC (as gasoline)   | <5     | mg/Kg | 5                | <5    | 08/06/01 | 8015 mod.           | ---                    | 3.66               | 95.5                | 103.5            | 101.1            |

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Respectfully Submitted,

*Richard Laster*

Richard Laster

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

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Client: Environmental Tech Group  
Attn: Ken Dutton

Project ID: Darr Angell #4 EOT 2075C  
Sample Name: MW4 25'-27'

Report#/Lab ID#: 117339  
Sample Matrix: soil

**REPORT OF SURROGATE RECOVERY**

| Surrogate Compound    | Method    | Recovery | Recovery Limit | Data Qualifiers |
|-----------------------|-----------|----------|----------------|-----------------|
| p Terphenyl           | 8015 mod  | 101      | 50-150         | ---             |
| Chlorobenzene d5(Suc) | 8015 mod. | 67.7     | 50 - 150       | ---             |

Data Qualifiers: D= Surrogates diluted and X= Surrogates outside advisory recovery limits.

**Client:** Environmental Tech Group  
**Attn:** Ken Dutton  
**Address:** 2540 W. Maryland  
Hobbs Nm 88240  
**Phone:** 505 397-1882 **FAX:** 505 397-4701

**Report#/Lab ID#:** 117340 **Report Date:** 08/17/01  
**Project ID:** Darr Angell #4 EOT 2075C  
**Sample Name:** MW4 30'-32'  
**Sample Matrix:** soil  
**Date Received:** 07/31/2001 **Time:** 14:43  
**Date Sampled:** 07/16/2001 **Time:** 11:25

## REPORT OF ANALYSIS

| Parameter                 | Result | Units |
|---------------------------|--------|-------|
| TPH by GC (as diesel)     | 17.4   | mg/Kg |
| TPH by GC (as diesel-exl) | ---    | ---   |
| TPH by GC (as gasoline)   | <5     | mg/Kg |

## QUALITY ASSURANCE DATA

| Method <sup>6</sup> | Date     | Blank | RQL <sup>5</sup> | Data Qual <sup>7</sup> | Prec. <sup>2</sup> | Recovery <sup>3</sup> | CCV <sup>4</sup> | LC'S <sup>4</sup> |
|---------------------|----------|-------|------------------|------------------------|--------------------|-----------------------|------------------|-------------------|
| 8015 mod            | 08/15/01 | <1    | 1                | ---                    | 6.92               | 100.6                 | 96               | 116.6             |
| 3540                | 08/02/01 | ---   | ---              | ---                    | -NA-               | -NA-                  | NA-              | NA-               |
| 8015 mod.           | 08/06/01 | <5    | 5                | ---                    | 3.66               | 95.5                  | 103.5            | 101.1             |

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Respectfully Submitted,

*Richard Easter*

Richard Easter

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Client: Environmental Tech Group  
Attn: Ken Dutton

Project ID: Darr Angell #4 EOT 2075C  
Sample Name: MW4 30'-32'

Report#/Lab ID#: 117310  
Sample Matrix: soil

**REPORT OF SURROGATE RECOVERY**

| Surrogate Compound   | Method    | Recovery | Recovery Limit | Data Qualifiers |
|----------------------|-----------|----------|----------------|-----------------|
| p-Terphenyl          | 8015 mod  | 82.5     | 50-150         | ---             |
| Chlorobenzene d5(Su) | 8015 mod. | 80.8     | 50 - 150       | ---             |

Data Qualifiers: D = Surrogates diluted and N= Surrogates outside advisory recovery limits.

**Client:** Environmental Tech Group  
**Attn:** Ken Patton  
**Address:** 2540 W. Maryland  
Hobbs NM 88240  
**Phone:** 505 397-4882 **FAX:** 505 397-4701

**Report#/Lab ID#:** 117341 **Report Date:** 08/17/01  
**Project ID:** Dar Angell #4 EOT 2075C  
**Sample Name:** MW4 35'-37"  
**Sample Matrix:** soil  
**Date Received:** 07/31/2001 **Time:** 14:13  
**Date Sampled:** 07/16/2001 **Time:** 11:35

**REPORT OF ANALYSIS**

| Parameter                 | Result | Units | RQL <sup>5</sup> | Blank | Date     | Method <sup>6</sup> | Data Qual <sup>7</sup> | Prec. <sup>2</sup> | Recov. <sup>3</sup> | CCV <sup>4</sup> | L.C.S. <sup>4</sup> |
|---------------------------|--------|-------|------------------|-------|----------|---------------------|------------------------|--------------------|---------------------|------------------|---------------------|
| TPH by GC (as diesel)     | 118    | mg/Kg | 10               | <10   | 08/15/01 | 8015 mod            | ---                    | 6.92               | 100.6               | 96               | 110.6               |
| TPH by GC (as diesel ext) | ---    | ---   | ---              | ---   | 08/02/01 | 3540                | ---                    | -NA-               | -NA-                | -NA-             | -NA-                |
| TPH by GC (as gasoline)   | <5     | mg/Kg | 5                | <5    | 08/06/01 | 8015 mod.           | ---                    | 3.66               | 95.5                | 103.5            | 101.1               |

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Respectfully Submitted,

*Richard Laster*

Richard Laster

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

1. Quality assurance data is for the sample batch 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 Laboratory Control Sample (L.C.S.) results are expressed as the percent (%) recovery of analyte from a known standard or matrix. 5. Reporting Quantitation Limits (RQL), typically at or above the Practical Quantitation Limit (PQL) of the analytical method. 6. Method numbers typically denote USEPA procedures. Less than (" $<$ ") values reflect nominal quantitation limits adopted for any required dilutions. 7. Data Qualifiers are J = analyte potentially present between the PQL and the MDL, B = Analyte detected in associated method blank(s). S1 = MS and/or MSD recovery exceed advisory limits. S2 = Post digestion spike (PDS) recovery exceeds advisory limit. S3 = MS and/or MSD and PDS recoveries exceed advisory limits. P = Precision higher than advisory limit. M = Matrix interference.



Client: Environmental Tech Group  
Attn: Ken Dutton

Project ID: Darr Angell #4 EOT 2075C  
Sample Name: MW4 35'-37'

Report#/Lab ID#: 111311  
Sample Matrix: soil

**REPORT OF SURROGATE RECOVERY**

| Surrogate Compound    | Method    | Recovery     | Recovery Limit | Data Qualifiers |
|-----------------------|-----------|--------------|----------------|-----------------|
| p-Terphenyl           | 8015 mod  | none/diluted | diluted @ 10X  | D               |
| Chlorobenzene d5(Sur) | 8015 mod. | 78.4         | 50 - 150       | ---             |

Data Qualifiers: D= Surrogates diluted and X= Surrogates outside advisory recovery limits.

## Exceptions Report:

Report #/Lab ID#: 117341 Matrix: soil  
Client: Environmental Tech Group Attn: Ken Dutton  
Project ID: Parr Angell #4 EOT 2075C  
Sample Name: MW4 35'-37'

### Sample Temperature/Condition <=6°C

The typical sample temperature criteria (except for metals by ICP, GFAA and AA and a very few other tests) is <= 6°C. Possible exceptions include samples submitted to laboratory within such a short time after sampling that cooling measures used in the field and during transport had insufficient time to achieve desired temperatures in the samples (see sample collection and sample receipt times) and samples where the temperature could not be measured due to sample submission in a manner precluding temperature measurement without impacting sample integrity (ex. in a bottle with no cooler).

### Sample Bottles & Preservation

- ☒ Sample received in appropriate container(s) and appear to be appropriately preserved.  
☐ Sample received in appropriate container(s). State of sample preservation unknown.  
☐ Sample received in inappropriate container(s) and/or with unknown state of preservation.

### J Flag Discussion

A J flag data qualifier indicates (as required under TNRCC-TRRP reporting requirements) that the raw calculated analyte concentration in the sample (uncorrected for background levels/blanks and other potential sources of sampling and analytical contamination), though less than the Reported Quantitation Limit (RQL) is greater than the Detection Limit. Because the reported result is below the quantitation limit for this project/sample (or test procedure), GC/MS organics results may or MAY NOT have been verified as to the presence and relative ratio of target ions (eg. the material causing the J flag "hit" in such situations may be nothing more than background ion fragment noise.)

### Comments pertaining to Data Qualifiers and QC data:

| Parameter  | Qualif | Comment                                                                                                                                                                                                       |
|------------|--------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| p-Tophenyl | D      | Sample diluted to assure quantitation within calibration range or due to Matrix interferences or other matrix effects (eg. high non target organic levels). Surrogate recoveries not accurately quantifiable. |
| p-Tophenyl | D      |                                                                                                                                                                                                               |

Notes:

**Client:** Environmental Tech Group

**Attn:** Ken Dutton

**Address:** 2540 W. Maryland  
Hobbs

Nm 88240

**Phone:** 505 397-4882 **FAX:** 505 397-4701

**Report#/Lab ID#:** 117342 **Report Date:** 08/17/01

**Project ID:** Darr Angell #4 EOT 2075C

**Sample Name:** MW4 40'-42'

**Sample Matrix:** soil

**Date Received:** 07/31/2001 **Time:** 11:43

**Date Sampled:** 07/16/2001 **Time:** 11:40

**REPORT OF ANALYSIS**

| Parameter                 | Result | Units | RQL <sup>5</sup> | Blank | Date     | Method <sup>6</sup> | Data Qual <sup>7</sup> | Prec. <sup>2</sup> | Recov. <sup>3</sup> | CCV <sup>4</sup> | I.C.S. <sup>1</sup> |
|---------------------------|--------|-------|------------------|-------|----------|---------------------|------------------------|--------------------|---------------------|------------------|---------------------|
| TPH by GC (as diesel)     | 5.01   | mg/Kg | 1                | <1    | 08/15/01 | 8015 mod            | ---                    | 6.92               | 100.6               | 96               | 116.6               |
| TPH by GC (as diesel ext) | ---    | ---   | ---              | ---   | 08/02/01 | 3540                | ---                    | -NA-               | -NA-                | -NA-             | -NA-                |
| TPH by GC (as gasoline)   | <5     | mg/Kg | 5                | <5    | 08/07/01 | 8015 mod.           | ---                    | 2.5                | 87.5                | 87.5             | 88.51               |

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

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Respectfully Submitted,

*Richard Easter*

Richard Easter

1. Quality assurance data is for the sample batch 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 Laboratory Control Sample (LCS) results are expressed as the percent (%) recovery of analyte from a known standard or matrix. 5. Reporting Quantitation Limits (RQL), typically at or above the Practical Quantitation Limit (PQL) of the analytical method. 6. Method numbers typically denote USEPA procedures. Less than ("<") values reflect nominal quantitation limits adjusted for any required dilutions. 7. Data Qualifiers are J = analyte potentially present between the PQL and the MDL, R = Analyte detected in associated method blank(s), S1 = MS and/or MSD recovery exceed advisory limits, S2 = Post digestion spike (PDS) recovery exceeds advisory limit, S3 = MS and/or MSD and PDS recoveries exceed advisory limits, P = Precision higher than advisory limit, M = Matrix interference.

Client: Environmental Tech Group  
Attn: Ken Dutton

Project ID: Dar Angell #4 EOT 2075C  
Sample Name: MW4 40'-42'

Report#/Lab ID#: 117342  
Sample Matrix: soil

**REPORT OF SURROGATE RECOVERY**

| Surrogate Compound    | Method    | Recovery | Recovery Limit | Data Qualifiers |
|-----------------------|-----------|----------|----------------|-----------------|
| p-Terphenyl           | 8015 mod  | 68.4     | 50-150         | ---             |
| Chlorobenzene d5(Sur) | 8015 mod. | 73.5     | 50 - 150       | ---             |

Data Qualifiers: D= Surrogates diluted and X= Surrogates outside advisory recovery limits.

**Client:** Environmental Tech Group  
**Attn:** Ken Dutton  
**Address:** 2540 W. Maryland  
Hobbs NM 88240  
**Phone:** 505 397-4882 **FAX:** 505 397-4701

**Report#/Lab ID#:** 117343 **Report Date:** 08/17/01  
**Project ID:** Darr Angell #4 EOT 2075C  
**Sample Name:** MW4 45'-47'  
**Sample Matrix:** soil  
**Date Received:** 07/31/2001 **Time:** 14:13  
**Date Sampled:** 07/16/2001 **Time:** 11:15

**REPORT OF ANALYSIS**

| Parameter                 | Result | Units | RQL <sup>5</sup> | Blank | Date     | Method <sup>6</sup> | Data Qual <sup>7</sup> | Prec. <sup>2</sup> | Recov. <sup>3</sup> | CCV <sup>4</sup> | LC'S <sup>1</sup> |
|---------------------------|--------|-------|------------------|-------|----------|---------------------|------------------------|--------------------|---------------------|------------------|-------------------|
| TPH by GC (as diesel)     | <1     | mg/Kg | 1                | <1    | 08/15/01 | 8015 mod            | ---                    | 6.92               | 100.6               | 96               | 116.6             |
| TPH by GC (as diesel-ext) | ---    | ---   | ---              | ---   | 08/02/01 | 3540                | ---                    | -NA-               | -NA-                | -NA-             | -NA-              |
| TPH by GC (as gasoline)   | <5     | mg/Kg | 5                | <5    | 08/07/01 | 8015 mod.           | ---                    | 2.5                | 87.5                | 87.5             | 88.51             |

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Respectfully Submitted,

*Richard Easter*

Richard Easter

1. Quality assurance data is for the sample batch 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 Laboratory Control Sample (LC'S) results are expressed as the percent (%) recovery of analyte from a known standard or matrix. 5. Reporting Quantitation Limits (RQL), typically at or above the Practical Quantitation Limit (PQL) of the analytical method. 6. Method numbers typically denote USEPA procedures. Less than (" $<$ ") values reflect nominal quantitation limits adjusted for any required dilutions. 7. Data Qualifiers are J = analyte potentially present between the PQL and the MDL, B = Analyte detected in associated method blank(s). S1 = MS and/or MSD recovery exceed advisory limits. S2 = Post digestion spike (PDS) recovery exceeds advisory limit. S3 = MS and/or MSD and PDS recoveries exceed advisory limits. P = Precision higher than advisory limit. M = Matrix interference.

Client: Environmental Tech Group  
Attn: Ken Dutton

Project ID: Dan Angell #4 EOT 2075C  
Sample Name: MW4 45'-47'

Report#/Lab ID#: 117313  
Sample Matrix: soil

**REPORT OF SURROGATE RECOVERY**

| Surrogate Compound    | Method    | Recovery | Recovery Limit | Data Qualifiers |
|-----------------------|-----------|----------|----------------|-----------------|
| p-Terphenyl           | 8015 mod  | 75.8     | 50-150         | ---             |
| Chlorobenzene d5(Sur) | 8015 mod. | 80.4     | 50 - 150       | ---             |

Data Qualifiers: D= Surrogates diluted and X= Surrogates outside advisory recovery limits.

**Client:** Environmental Tech Group  
**Attn:** Ken Dutton  
**Address:** 2540 W. Maryland  
Hobbs NM 88240  
**Phone:** 505 397-4882 **FAX:** 505 397-4701

**Report#/Lab ID#:** 117344 **Report Date:** 08/17/01  
**Project ID:** Darr Angell #4 EOT 2075C  
**Sample Name:** MW4 50'-52'  
**Sample Matrix:** soil  
**Date Received:** 07/31/2001 **Time:** 14:43  
**Date Sampled:** 07/16/2001 **Time:** 11:50

**REPORT OF ANALYSIS**

| Parameter                 | Result | Units | RQL <sup>5</sup> | Blank | Date     | Method <sup>6</sup> | Data Qual <sup>7</sup> | Prec. <sup>2</sup> | Recov. <sup>3</sup> | CCV <sup>4</sup> | LCS <sup>4</sup> |
|---------------------------|--------|-------|------------------|-------|----------|---------------------|------------------------|--------------------|---------------------|------------------|------------------|
| TPH by GC (as diesel)     | 1.1    | mg/Kg | 1                | <1    | 08/15/01 | 8015 mod            | ---                    | 6.92               | 100.6               | 96               | 116.6            |
| TPH by GC (as diesel ext) | ---    | ---   | ---              | ---   | 08/02/01 | 3540                | ---                    | -NA-               | -NA-                | -NA-             | -NA-             |
| TPH by GC (as gasoline)   | <5     | mg/Kg | 5                | <5    | 08/07/01 | 8015 mod.           | ---                    | 2.5                | 87.5                | 87.5             | 88.51            |

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

This analytical report is respectfully submitted by AnalySys, Inc. The enclosed results have been carefully reviewed and, to the best of my knowledge, the analytical results are consistent with AnalySys, Inc.'s Quality Assurance/Quality Control Program. © Copyright 2000, AnalySys, Inc., Austin, TX. All rights reserved. No part of this publication may be reproduced or transmitted in any form or by any means without the express written consent of AnalySys, Inc.  
Respectfully Submitted,  
*Richard Laster*  
Richard Laster

1. Quality assurance data is for the sample batch 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 Laboratory Control Sample (LCS) results are expressed as the percent (%) recovery of analyte from a known standard or matrix. 5. Reporting Quantitation Limits (RQL), typically at or above the Practical Quantitation Limit (PQL) of the analytical method. 6. Method numbers typically denote USEPA procedures. Less than ("<") values reflect nominal quantitation limits adjusted for any required dilutions. 7. Data Qualifiers are J = MS and/or MSD recovery exceed advisory limits. S2 = Post digestion spike (PDS) recovery exceeds advisory limit. S3 = MS and/or MSD and PDS recoveries exceed advisory limits. P = Precision higher than advisory limit. M = Matrix interference.

Client: Environmental Tech Group  
Attn: Ken Dutton

Project ID: Darr Angell #4 EOT 2075C  
Sample Name: MW4 50'-52'

Report# / Lab ID#: 117341  
Sample Matrix: soil

**REPORT OF SURROGATE RECOVERY**

| Surrogate Compound    | Method    | Recovery | Recovery Limit | Data Qualifiers |
|-----------------------|-----------|----------|----------------|-----------------|
| p-Terphenyl           | 8015 mod  | 61.9     | 50-150         | ---             |
| Chlorobenzene d5(Sur) | 8015 mod. | 58.5     | 50 - 150       | ---             |

Data Qualifiers: D = Surrogates diluted and X = Surrogates outside advisory recovery limits.



**Client:** Environmental Tech Group  
**Attn:** Ken Dutton  
**Address:** 2510 W. Maryland  
Hobbs Nm 88240  
**Phone:** 505 397-4882 **FAX:** 505 397-4701

**Report#/Lab ID#:** 117345 **Report Date:** 08/17/01  
**Project ID:** Dart Angell #4 EOT2075C  
**Sample Name:** MW4 55'-57'  
**Sample Matrix:** soil  
**Date Received:** 07/31/2001 **Time:** 14:43  
**Date Sampled:** 07/16/2001 **Time:** 12:00

**REPORT OF ANALYSIS**

| Parameter                 | Result | Units | RQL <sup>5</sup> | Blank | Date     | Method <sup>6</sup> | Data Qual <sup>7</sup> | Prec. <sup>2</sup> | Recovery <sup>3</sup> | CCV <sup>4</sup> | LCS <sup>1</sup> |
|---------------------------|--------|-------|------------------|-------|----------|---------------------|------------------------|--------------------|-----------------------|------------------|------------------|
| TPH by GC (as diesel)     | <1     | mg/Kg | 1                | <1    | 08/15/01 | 8015 mod            | J                      | 6.92               | 100.6                 | 96               | 116.6            |
| TPH by GC (as diesel-ext) | ---    | ---   | ---              | ---   | 08/02/01 | 3540                | ---                    | -NA-               | -NA-                  | -NA-             | -NA-             |
| TPH by GC (as gasoline)   | <5     | mg/Kg | 5                | <5    | 08/07/01 | 8015 mod.           | ---                    | 2.5                | 87.5                  | 87.5             | 88.51            |

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Respectfully Submitted,

*Richard Laster*

Richard Laster

**QUALITY ASSURANCE DATA**

1. Quality assurance data is for the sample batch 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 Laboratory Control Sample (LCS) results are expressed as the percent (%) recovery of analyte from a known standard or matrix. 5. Reporting Quantitation Limits (RQL), typically at or above the Practical Quantitation Limit (PQL) of the analytical method. 6. Method numbers typically denote USEPA procedures. Less than (" $<$ ") values reflect nominal quantitation limits adjusted for any required dilutions. 7. Data Qualifiers are J = analyte potentially present between the PQL and the MDL. B = Analyte detected in associated method blank(s). S1 = MS and/or MSD recovery exceed advisory limits. S2 = Post digestion spike (PDS) recovery exceeds advisory limit. S3 = MS and/or MSD and PDS recoveries exceed advisory limits. P = Precision higher than advisory limit. M = Matrix interference.

Client: Environmental Tech Group  
Attn: Ken Dutton

Project ID: Darr Angell #4 BOT 2075C  
Sample Name: MW4 55'-57'

Report#/Lab ID#: 117315  
Sample Matrix: soil

**REPORT OF SURROGATE RECOVERY**

| Surrogate Compound    | Method    | Recovery | Recovery Limit | Data Qualifiers |
|-----------------------|-----------|----------|----------------|-----------------|
| p-Terphenyl           | 8015 mod  | 57.9     | 50-150         | ---             |
| Chlorobenzene d5(Sur) | 8015 mod. | 68.7     | 50 - 150       | ---             |

Data Qualifiers: D= Surrogates diluted and X= Surrogates outside advisory recovery limits.

# Exceptions Report:

|                                      |              |                  |
|--------------------------------------|--------------|------------------|
| Report #/Lab ID#: 117345             | Matrix: soil | Attn: Ken Dutton |
| Client: Environmental Tech Group     |              |                  |
| Project ID: Darr Angell #4 EOT 2075C |              |                  |
| Sample Name: MW-4 55'-57'            |              |                  |

## Sample Temperature/Condition <=6°C

The typical sample temperature criteria (except for metals by ICP, GFAA and AA and a very few other tests) is <= 6°C. Possible exceptions include samples submitted to laboratory within such a short time after sampling that cooling measures used in the field and during transport had insufficient time to achieve desired temperatures in the samples (see sample collection and sample receipt times) and samples where the temperature could not be measured due to sample submission in a manner precluding temperature measurement without impacting sample integrity (ex. in a bottle with no cooler).

## Sample Bottles & Preservation

- ☒ Sample received in appropriate container(s) and appear to be appropriately preserved.
- ☐ Sample received in appropriate container(s). State of sample preservation unknown.
- ☐ Sample received in inappropriate container(s) and/or with unknown state of preservation.

## J flag Discussion

A J flag data qualifier indicates (as required under TNRCC-TRRP reporting requirements) that the raw calculated analyte concentration in the sample (unconnected for background levels/blanks and other potential sources of sampling and analytical contamination), though less than the Reported Quantitation Limit (RQL) is greater than the Detection Limit. Because the reported result is below the quantitation limit for this project/sample (or test procedure), GC/MS organics results may or MAY NOT have been verified as to the presence and relative ratio of target ions (eg. the material causing the J flag "hit" in such situations may be nothing more than background ion fragment noise.)

## Comments pertaining to Data Qualifiers and QC data:

| Parameter             | Qualif | Comment                      |
|-----------------------|--------|------------------------------|
| TOT by GC (as diesel) | J      | See J-flag discussion above. |

Notes:

**Client:** Environmental Tech Group

**Attn:** Ken Dutton

**Address:** 2540 W. Maryland  
Hobbs

Nm 88240

**Phone:** 505 397-4882 **FAX:** 505 397-4701

**Report#/Lab ID#:** 117346 **Report Date:** 08/17/01

**Project ID:** Darr Angell #4 EOT 2075C

**Sample Name:** MW4 60'-62'

**Sample Matrix:** soil

**Date Received:** 07/31/2001 **Time:** 14:43

**Date Sampled:** 07/16/2001 **Time:** 12:10

**REPORT OF ANALYSIS**

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

| Parameter                 | Result | Units | RQL <sup>5</sup> | Blank | Date     | Method <sup>6</sup> | Data Qual <sup>7</sup> | Prec. <sup>2</sup> | Recov. <sup>3</sup> | CCV <sup>4</sup> | LCS <sup>1</sup> |
|---------------------------|--------|-------|------------------|-------|----------|---------------------|------------------------|--------------------|---------------------|------------------|------------------|
| TPH by GC (as diesel)     | 2.87   | mg/Kg | 1                | <1    | 08/15/01 | 8015 mod            | ---                    | 6.92               | 100.6               | 96               | 116.6            |
| TPH by GC (as diesel-exl) | ---    | ---   | ---              | ---   | 08/02/01 | 3540                | ---                    | -NA-               | -NA-                | -NA-             | -NA-             |
| TPH by GC (as gasoline)   | <5     | mg/Kg | 5                | <5    | 08/07/01 | 8015 mod.           | ---                    | 2.5                | 87.5                | 87.5             | 88.51            |

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Respectfully Submitted,

*Richard Lasler*

Richard Lasler

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Client: Environmental Tech Group  
Attn: Ken Dutton

Project ID: Darr Angell #4 EOT 2075C  
Sample Name: MW4 60'-62'

Report#/Lab ID#: 117316  
Sample Matrix: soil

**REPORT OF SURROGATE RECOVERY**

| Surrogate Compound    | Method    | Recovery | Recovery Limit | Data Qualifiers |
|-----------------------|-----------|----------|----------------|-----------------|
| p-Terphenyl           | 8015 mod  | 79.1     | 50-150         | ---             |
| Chlorobenzene-d5(Sur) | 8015 mod. | 70.1     | 50 - 150       | ---             |

Data Qualifiers: D= Surrogates diluted and X= Surrogates outside advisory recovery limits.

**Client:** Environmental Tech Group  
**Attn:** Ken Dutton  
**Address:** 2540 W. Maryland  
Hobbs Nm 88240  
**Phone:** 505 397-4882 **FAX:** 505 397-4701

**Report#/Lab ID#:** 117347 **Report Date:** 08/17/01  
**Project ID:** Dart Angell #4 EOF 2075C  
**Sample Name:** MW4 65'-67'  
**Sample Matrix:** soil  
**Date Received:** 07/31/2001 **Time:** 14:43  
**Date Sampled:** 07/16/2001 **Time:** 12:15

## REPORT OF ANALYSIS

| Parameter                 | Result | Units | RQL <sup>5</sup> | Blank | Date     | Method <sup>6</sup> | Data Qual <sup>7</sup> | Prec. <sup>2</sup> | Recov. <sup>3</sup> | CCV <sup>4</sup> | LCGS <sup>1</sup> |
|---------------------------|--------|-------|------------------|-------|----------|---------------------|------------------------|--------------------|---------------------|------------------|-------------------|
| TPH by GC (as diesel)     | 1.2    | mg/Kg | 1                | <1    | 08/15/01 | 8015 mod            | ---                    | 6.92               | 100.6               | 96               | 116.6             |
| TPH by GC (as diesel ext) | ---    | ---   | ---              | ---   | 08/02/01 | 3540                | ---                    | -NA-               | -NA-                | -NA-             | -NA-              |
| TPH by GC (as gasoline)   | <5     | mg/Kg | 5                | <5    | 08/07/01 | 8015 mod.           | ---                    | 2.5                | 87.5                | 87.5             | 88.51             |

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

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Respectfully Submitted,

*Richard Laster*

Richard Laster

1. Quality assurance data is for the sample batch 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 Laboratory Control Sample (LCS) results are expressed as the percent (%) recovery of analyte from a known standard or matrix. 5. Reporting Quantitation Limits (RQL), typically at or above the Practical Quantitation Limit (PQL) of the analytical method. 6. Method numbers typically denote USEPA procedures. Less than (" $<$ ") values reflect nominal quantitation limits adjusted for any required dilutions. 7. Data Qualifiers are J = analyte potentially present between the PQL and the MDL, B = Analyte detected in associated method blank(s), S1 = MS and/or MSD recovery exceed advisory limits, S2 = Post digestion spike (PDS) recovery exceeds advisory limit, S3 = MS and/or MSD and PDS recoveries exceed advisory limits, F = Precision higher than advisory limit, M = Matrix interference.

Client: Environmental Tech Group  
Attn: Ken Dutton

Project ID: Darr Angell #4 EOT 2075C  
Sample Name: MW4 65'-67'

Report#/Lab ID#: 117347  
Sample Matrix: soil

**REPORT OF SURROGATE RECOVERY**

| Surrogate Compound   | Method    | Recovery | Recovery Limit | Data Qualifiers |
|----------------------|-----------|----------|----------------|-----------------|
| p-Terphenyl          | 8015 mod  | 57.7     | 50-150         | ---             |
| Chlorobenzene-d5(Su) | 8015 mod. | 65       | 50 - 150       | ---             |

Data Qualifiers: D= Surrogates diluted and X= Surrogates outside advisory recovery limits.

**Client:** Environmental Tech Group  
**Attn:** Ken Dutton  
**Address:** 2540 W. Maryland  
Hobbs Nm 88240  
**Phone:** 505 397-4882 **FAX:** 505 397-4701

**Report#/Lab ID#:** 117348 **Report Date:** 08/17/01  
**Project ID:** Darr Angell #4 EOT 2075C  
**Sample Name:** RW5 0'-2'  
**Sample Matrix:** soil  
**Date Received:** 07/31/2001 **Time:** 14:43  
**Date Sampled:** 07/16/2001 **Time:** 14:10

**REPORT OF ANALYSIS**

| Parameter                 | Result | Units | RQL <sup>5</sup> | Blank | Date     | Method <sup>6</sup> | Data Qual <sup>7</sup> | Prec. <sup>2</sup> | Recov. <sup>3</sup> | CCV <sup>4</sup> | LC <sup>8</sup> |
|---------------------------|--------|-------|------------------|-------|----------|---------------------|------------------------|--------------------|---------------------|------------------|-----------------|
| TPH by GC (as diesel)     | 3.16   | mg/Kg | 1                | <1    | 08/15/01 | 8015 mod            | ---                    | 6.92               | 100.6               | 96               | 116.6           |
| TPH by GC (as diesel-exl) | ---    | ---   | ---              | ---   | 08/02/01 | 3540                | ---                    | -NA-               | -NA-                | -NA-             | -NA-            |
| TPH by GC (as gasoline)   | <5     | mg/Kg | 5                | <5    | 08/07/01 | 8015 mod.           | ---                    | 2.5                | 87.5                | 87.5             | 88.51           |

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

This analytical report is respectfully submitted by AnalySys, Inc. The enclosed results have been carefully reviewed and, to the best of my knowledge, the analytical results are consistent with AnalySys, Inc.'s Quality Assurance/Quality Control Program. © Copyright 2000, AnalySys, Inc., Austin, TX. All rights reserved. No part of this publication may be reproduced or transmitted in any form or by any means without the express written consent of AnalySys, Inc.

Respectfully Submitted,

*Richard Laster*

Richard Laster

1. Quality assurance data is for the sample batch which included this sample. 2. Precision (PPM) 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 Laboratory Control Sample (LCS) results are expressed as the percent (%) recovery of analyte from a known standard or matrix. 5. Reporting Quantitation Limits (RQL), typically at or above the Practical Quantitation Limit (PQL) of the analytical method. 6. Method numbers typically denote USEPA procedures. Less than ("<") values reflect nominal quantitation limits adjusted for any required dilutions. 7. Data Qualifiers are J = analyte potentially present between the PQL and the MDL, B = Analyte detected in associated method blank(s). S1 = MS and/or MSD recovery exceed advisory limits. S2 = Post digestion spike (PDS) recovery exceeds advisory limit. S3 = MS and/or MSD and PDS recoveries exceed advisory limits. F = Precision higher than advisory limit. M = Matrix interference.



Client: Environmental Tech Group  
Attn: Ken Dutton

Project ID: Darr Angell #4 EOT 2075C  
Sample Name: RW5 0'-2'

Report#/Lab ID#: 117348  
Sample Matrix: soil

REPORT OF SURROGATE RECOVERY

| Surrogate Compound    | Method    | Recovery | Recovery Limit | Data Qualifiers |
|-----------------------|-----------|----------|----------------|-----------------|
| p-Terphenyl           | 8015 mod  | 53.1     | 50-150         | ---             |
| Chlorobenzene-d5(Std) | 8015 mod. | 77       | 50-150         | ---             |

Data Qualifiers: D= Surrogates diluted and X= Surrogates outside advisory recovery limits.

Client: Environmental Tech Group

Attn: Ken Dutton

Address: 2540 W. Maryland  
Hobbs

Nm 88240

Phone: 505 397-4882 FAX: 505 397-4701

Report#/Lab ID#: 117349 Report Date: 08/14/01

Project ID: Darr Angell #4 EOT 2075C

Sample Name: RW5 5'-7'

Sample Matrix: soil

Date Received: 07/31/2001 Time: 14:43

Date Sampled: 07/16/2001 Time: 14:20

## REPORT OF ANALYSIS

| Parameter                 | Result | Units | RQL <sup>5</sup> | Blank | Date     | Method <sup>6</sup> | Data Qual <sup>7</sup> | Prec. <sup>2</sup> | Recov. <sup>3</sup> | CCV <sup>4</sup> | LC5 <sup>4</sup> |
|---------------------------|--------|-------|------------------|-------|----------|---------------------|------------------------|--------------------|---------------------|------------------|------------------|
| TPH by GC (as diesel)     | <1     | mg/Kg | 1                | <1    | 08/10/01 | 8015 mod            | J                      | 12.1               | 94.3                | 112.3            | 97.2             |
| TPH by GC (as diesel ext) | ---    | ---   | ---              | ---   | 08/03/01 | 3540                | ---                    | -NA-               | -NA-                | -NA-             | -NA-             |
| TPH by GC (as gasoline)   | <5     | mg/Kg | 5                | <5    | 08/07/01 | 8015 mod.           | ---                    | 2.5                | 87.5                | 87.5             | 88.51            |

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

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Respectfully Submitted,

*Richard Laster*

Richard Laster

1. Quality assurance data is for the sample batch 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 Laboratory Control Sample (LC5) results are expressed as the percent (%) recovery of analyte from a known standard or matrix. 5. Reporting Quantitation Limits (RQL), typically at or above the Practical Quantitation Limit (PQL) of the analytical method. 6. Method numbers typically denote USEPA procedures. Less than (" $<$ ") values reflect nominal quantitation limits adjusted for any required dilutions. 7. Data Qualifiers are J = analyte potentially present between the PQL and the NDL, B = Analyte detected in associated method blank(s). S1 = MS and/or MSD recovery exceed advisory limits. S2 = Post digestion spike (PDS) recovery exceeds advisory limit. S3 = MS and/or MSD and PDS recoveries exceed advisory limits. P = Precision higher than advisory limit. M = Matrix interference.



4221 Freidrich Lane, Suite 190, Austin, TX 78744 &  
2209 N. Padre Island Dr., Corpus Christi 78404-008  
(512) 444-5896 FAX (512) 447-4171

Client: Environmental Tech Group  
Attn: Ken Putton

Project ID: Dair Angell #4 EOT 2075C  
Sample Name: RW5 5'-7'

Report#/Lab ID#: 117319  
Sample Matrix: soil

# REPORT OF SURROGATE RECOVERY

| Surrogate Compound    | Method    | Recovery | Recovery Limit | Data Qualifiers |
|-----------------------|-----------|----------|----------------|-----------------|
| p Terphenyl           | 8015 mod  | 70.4     | 50-150         | ---             |
| Chlorobenzene-d5(Sur) | 8015 mod. | 72.9     | 50 - 150       | ---             |

Data Qualifiers: D= Surrogates diluted and X= Surrogates outside advisory recovery limits.

## Exceptions

Report #/Lab ID#: 117349 Matrix: soil

**Client:** Environmental Tech Group

Project ID: Dart Angell #4 EOT 2075C

Sample Name: RW5 5'-7'

**Attn: Ken Dutton**

Sample Temperature/Condition  $\leq 6^{\circ}\text{C}$ 

The typical sample temperature criteria (except for metals by ICP, GFAA and AA and a very few other tests) is  $\leq 6^{\circ}\text{C}$ . Possible exceptions include samples submitted to the laboratory within such a short time after sampling that cooling measures used in the field and during transport had insufficient time to achieve desired temperatures in the samples (see sample collection and sample receipt times) and samples where the temperature could not be measured due to sample submersion in a manner precluding temperature measurement without impacting sample integrity (ex. in a bottle with no cooler).

## Sample Bottles & Preservation

- ☒ Sample received in appropriate container(s) and appear to be appropriately preserved.  
☐ Sample received in appropriate container(s). State of sample preservation unknown.  
☐ Sample received in inappropriate container(s) and/or with unknown state of preservation.

## Flag Discussion

A J flag data qualifier indicates (as required under TNRCC-TTRP reporting requirements) that the raw calculated analyte concentration in the sample (uncorrected for background levels/blanks and other potential sources of sampling and analytical contamination), though less than the Reported Quantitation Limit (RQL) is greater than the Detection Limit. Because the reported result is below the quantitation limit for this project/sample (or test procedure), GC/MS organics results may or MAY NOT have been verified as to the presence and relative ratio of target ions (eg. the material causing the J flag "hit" in such situations may be nothing more than background ion fragment noise.)

**Comments pertaining to Data Qualifiers and QC data:**

| Parameter                         | Qualif | Comment                      |
|-----------------------------------|--------|------------------------------|
| PPH by G <sup>+</sup> (as diesel) | J      | See J-flag discussion above. |

Votes: 5710

**Client:** Environmental Tech Group  
**Attn:** Ken Dutton  
**Address:** 2540 W. Maryland  
Hobbs Nm 88240  
**Phone:** 505 397-4882 **FAX:** 505 397-4701

**Report#/Lab ID#:** 117350 **Report Date:** 08/14/01  
**Project ID:** Darr Angell #4 EOT 2075C  
**Sample Name:** RW5 10'-12'  
**Sample Matrix:** soil  
**Date Received:** 07/31/2001 **Time:** 14:43  
**Date Sampled:** 07/16/2001 **Time:** 14:30

**REPORT OF ANALYSIS**

| Parameter                 | Result | Units | RQL <sup>5</sup> | Blank | Date     | Method <sup>6</sup> | Data Qual <sup>7</sup> | Prec. <sup>2</sup> | Recov. <sup>3</sup> | CCV <sup>4</sup> | L.C.S. <sup>4</sup> |
|---------------------------|--------|-------|------------------|-------|----------|---------------------|------------------------|--------------------|---------------------|------------------|---------------------|
| TPH by GC (as diesel)     | 13.3   | mg/Kg | 1                | <1    | 08/10/01 | 8015 mod            | ---                    | 12.1               | 94.3                | 112.3            | 97.2                |
| TPH by GC (as diesel ext) | ---    | ---   | ---              | ---   | 08/03/01 | 3540                | ---                    | -NA-               | -NA-                | -NA-             | -NA-                |
| TPH by GC (as gasoline)   | <5     | mg/Kg | 5                | <5    | 08/07/01 | 8015 mod.           | ---                    | 2.5                | 87.5                | 87.5             | 88.51               |

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Respectfully Submitted,

*Richard Laster*

Richard Laster

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

1. Quality assurance data is for the sample batch 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 Laboratory Control Sample (LCS) results are expressed as the percent (%) recovery of analyte from a known standard or matrix. 5. Reporting Quantitation Limits (RQL), typically at or above the Practical Quantitation Limit (PQL) of the analytical method. 6. Method numbers typically denote USEPA procedures. Less than (" $<$ ") values reflect nominal quantitation limits adjusted for any required dilutions. 7. Data Qualifiers are J = analyte potentially present between the PQL and the MDL, B = Analyte detected in associated method blank(s). S1 = MS and/or MSD recovery exceed advisory limits. S2 = Post digestion spike (PDS) recovery exceeds advisory limit. S3 = MS and/or MSD and PDS recoveries exceed advisory limits. P = Precision higher than advisory limit. M = Matrix interference.

Client: Environmental Tech Group  
Attn: Ken Dutton

Project ID: Darr Angell #4 EOT 2075C  
Sample Name: RW5 10'-12'

Report#/Lab ID#: 117350  
Sample Matrix: soil

**REPORT OF SURROGATE RECOVERY**

| Surrogate Compound   | Method    | Recovery | Recovery Limit | Data Qualifiers |
|----------------------|-----------|----------|----------------|-----------------|
| p-Terphenyl          | 8015 mod. | 63.7     | 50-150         | ---             |
| Chlorobenzene d5(Su) | 8015 mod. | 67.4     | 50 - 150       | ---             |

Data Qualifiers: D= Surrogates diluted and X= Surrogates outside advisory recovery limits.

**Client:** Environmental Tech Group  
**Attn:** Ken Dutton  
**Address:** 2540 W. Maryland  
Hobbs Nm 88240  
**Phone:** 505 397-4882 **FAX:** 505 397-4701

**Report#/Lab ID#:** 117351 **Report Date:** 08/13/01  
**Project ID:** Darr Angell #4 EOT 2075C  
**Sample Name:** RW5 15'-17'  
**Sample Matrix:** soil  
**Date Received:** 07/31/2001 **Time:** 14:43  
**Date Sampled:** 07/16/2001 **Time:** 14:37

## REPORT OF ANALYSIS

| Parameter                 | Result | Units | RQL <sup>5</sup> | Blank | Date     | Method <sup>6</sup> | Data Qual <sup>7</sup> | Prec. <sup>2</sup> | Recov. <sup>3</sup> | CCV <sup>4</sup> | ICS <sup>4</sup> |
|---------------------------|--------|-------|------------------|-------|----------|---------------------|------------------------|--------------------|---------------------|------------------|------------------|
| TPH by GC (as diesel)     | 6.43   | mg/Kg | 1                | <1    | 08/10/01 | 8015 mod            | ---                    | 3.1                | 101                 | 106.5            | 92.2             |
| TPH by GC (as diesel ext) | ---    | ---   | ---              | ---   | 08/03/01 | 3540                | ---                    | -NA-               | -NA-                | -NA-             | NA-              |
| TPH by GC (as gasoline)   | <5     | mg/Kg | 5                | <5    | 08/07/01 | 8015 mod.           | ---                    | 2.5                | 87.5                | 87.5             | 88.51            |

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Respectfully Submitted,

*Richard Laster*

Richard Laster

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2209 N. Padre Island Dr., Corpus Christi, TX 7840408  
(512) 444-5896 • FAX (512) 447-XXXX

Client: Environmental Tech Group  
Attn: Ken Dutton

Project ID: Darr Angell #4 EOT 2075C  
Sample Name: RW5 15'-17'

Report#/Lab ID#: 117351  
Sample Matrix: soil

# REPORT OF SURROGATE RECOVERY

| Surrogate Compound    | Method   | Recovery | Recovery Limit | Data Qualifiers |
|-----------------------|----------|----------|----------------|-----------------|
| p-Terphenyl           | 8015 mod | 93.9     | 50-150         | ---             |
| Chlorobenzene d5(Sur) | 8015 mod | 85.7     | 50 - 150       | ---             |

Data Qualifiers: D= Surrogates diluted and X= Surrogates outside advisory recovery limits.



**Client:** Environmental Tech Group  
**Attn:** Ken Dutton  
**Address:** 2540 W. Maryland  
Hobbs NM 88240  
**Phone:** 505 397-4882 **FAX:** 505 397-4701

**Report#/Lab ID#:** 117352 **Report Date:** 08/14/01  
**Project ID:** Darr Angell #4 EOT 2075C  
**Sample Name:** RW5 20'-22'  
**Sample Matrix:** soil  
**Date Received:** 07/31/2001 **Time:** 14:43  
**Date Sampled:** 07/16/2001 **Time:** 14:45

**REPORT OF ANALYSIS**

| Parameter                 | Result | Units | RQL <sup>5</sup> | Blank | Date     | Method <sup>6</sup> | Data Qual <sup>7</sup> | Prec. <sup>2</sup> | Recov. <sup>3</sup> | CCV <sup>4</sup> | LCS <sup>4</sup> |
|---------------------------|--------|-------|------------------|-------|----------|---------------------|------------------------|--------------------|---------------------|------------------|------------------|
| TPH by GC (as diesel)     | 2.44   | mg/Kg | 1                | <1    | 08/10/01 | 8015 mod            | ---                    | 12.1               | 94.3                | 112.3            | 97.2             |
| TPH by GC (as diesel-exl) | ---    | ---   | ---              | ---   | 08/03/01 | 3540                | ---                    | -NA-               | -NA-                | -NA-             | -NA-             |
| TPH by GC (as gasoline)   | <5     | mg/Kg | 5                | <5    | 08/07/01 | 8015 mod.           | ---                    | 2.5                | 87.5                | 87.5             | 88.51            |

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Respectfully Submitted,

*Richard Laster*

Richard Laster

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

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Client: Environmental Tech Group  
Attn: Ken Dutton

Project ID: Dair Angel #4 EOT 2075C  
Sample Name: RW5 20'-22'

Report#/Lab ID#: 117352  
Sample Matrix: soil

**REPORT OF SURROGATE RECOVERY**

| Surrogate Compound    | Method    | Recovery | Recovery Limit | Data Qualifiers |
|-----------------------|-----------|----------|----------------|-----------------|
| p-Terphenyl           | 8015 mod  | 58.8     | 50-150         | ---             |
| Chlorobenzene-d5(Sur) | 8015 mod. | 76.1     | 50 - 150       | ---             |

Data Qualifiers: D = Surrogates diluted and X = Surrogates outside advisory recovery limits.

**Client:** Environmental Tech Group  
**Attn:** Ken Dutton  
**Address:** 2540 W. Maryland  
Hobbs NM 88240  
**Phone:** 505 397-4882 **FAX:** 505 397-4701

**Report#/Lab ID#:** 117353 **Report Date:** 08/14/01  
**Project ID:** Darr Angell #4 EOT 2075C  
**Sample Name:** RW5 25'-27"  
**Sample Matrix:** soil  
**Date Received:** 07/31/2001 **Time:** 14:43  
**Date Sampled:** 07/16/2001 **Time:** 14:55

**REPORT OF ANALYSIS**

| Parameter                 | Result | Units |
|---------------------------|--------|-------|
| TPH by GC (as diesel)     | 1.39   | mg/Kg |
| TPH by GC (as diesel-ext) | ---    | ---   |
| TPH by GC (as gasoline)   | <5     | mg/Kg |

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Respectfully Submitted,  
*Richard Laster*  
Richard Laster

**QUALITY ASSURANCE DATA**

| Method <sup>6</sup> | Date     | Blank | RQL <sup>5</sup> | Units | Result | Data Qual <sup>7</sup> | Prec. <sup>2</sup> | Recov. <sup>3</sup> | CCV <sup>4</sup> | LCS <sup>4</sup> |
|---------------------|----------|-------|------------------|-------|--------|------------------------|--------------------|---------------------|------------------|------------------|
| 8015 mod            | 08/10/01 | <1    | 1                | mg/Kg | 1.39   | ---                    | 12.1               | 94.3                | 112.3            | 97.2             |
| 3540                | 08/03/01 | ---   | ---              | ---   | ---    | ---                    | -NA-               | -NA-                | -NA-             | -NA-             |
| 8015 mod.           | 08/07/01 | <5    | 5                | mg/Kg | <5     | ---                    | 2.5                | 87.5                | 87.5             | 88.51            |

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Client: Environmental Tech Group  
Attn: Ken Dutton

Project ID: Darr Angell #4 EOT 2075C  
Sample Name: RW5 25'-27'

Report#/Lab ID#: 117353  
Sample Matrix: soil

**REPORT OF SURROGATE RECOVERY**

| Surrogate Compound    | Method    | Recovery | Recovery Limit | Data Qualifiers |
|-----------------------|-----------|----------|----------------|-----------------|
| p Terphenyl           | 8015 mod  | 82.8     | 50-150         | ---             |
| Chlorobenzene d5(Sur) | 8015 mod. | 76.5     | 50 - 150       | ---             |

Data Qualifiers: D= Surrogates diluted and X= Surrogates outside advisory recovery limits.

**Client:** Environmental Tech Group  
**Attn:** Ken Dutton  
**Address:** 2540 W. Maryland  
Hobbs Nm 88240  
**Phone:** 505 397-4882 **FAX:** 505 397-4701

**Report#/Lab ID#:** 117354 **Report Date:** 08/22/01  
**Project ID:** Darr Angell #4 EOT 2075C  
**Sample Name:** RW5 30'-32'  
**Sample Matrix:** soil  
**Date Received:** 07/31/2001 **Time:** 14:43  
**Date Sampled:** 07/16/2001 **Time:** 15:00

**REPORT OF ANALYSIS**

| Parameter                 | Result | Units | RQL <sup>5</sup> | Blank | Date     | Method <sup>6</sup> | Data Qual <sup>7</sup> | Prec. <sup>2</sup> | Recov. <sup>3</sup> | CCV <sup>4</sup> | LCS <sup>4</sup> |
|---------------------------|--------|-------|------------------|-------|----------|---------------------|------------------------|--------------------|---------------------|------------------|------------------|
| TPH by GC (as diesel)     | <1     | mg/Kg | 1                | <1    | 08/10/01 | 8015 mod            | J                      | 12.1               | 94.3                | 112.3            | 97.2             |
| TPH by GC (as diesel-ext) | ---    | ---   | ---              | ---   | 08/03/01 | 3540                | ---                    | -NA-               | -NA-                | -NA-             | -NA-             |
| TPH by GC (as gasoline)   | <5     | mg/Kg | 5                | <5    | 08/07/01 | 8015 mod.           | ---                    | 2.5                | 87.5                | 87.5             | 88.51            |

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

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Respectfully Submitted,

*Richard Laster*

Richard Laster

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Client: Environmental Tech Group  
Attn: Ken Dutton

Project ID: Dair Angell #4 EOT 2075C  
Sample Name: RW5 30'-32'

Report#/Lab ID#: 117351  
Sample Matrix: soil

**REPORT OF SURROGATE RECOVERY**

| Surrogate Compound    | Method   | Recovery | Recovery Limit | Data Qualifiers |
|-----------------------|----------|----------|----------------|-----------------|
| p-Tolphenyl           | 8015 mod | 58.5     | 50-150         | ---             |
| Chlorobenzene d5(Sur) | 8015 mod | 71.2     | 50 - 150       | ---             |

Data Qualifiers: D= Surrogates diluted and X= Surrogates outside advisory recovery limits.

Exceptions Report:

Report #/Lab ID#: 117354 Matrix: soil  
Client: Environmental Tech Group Attn: Ken Dutton  
Project ID: Dar Angell #4 EOT 2075C  
Sample Name: RW5 30' 32'

Sample Temperature/Condition <=6°C

The typical sample temperature criteria (except for metals by ICP, GFAA and AA and a very few other tests) is <= 6°C. Possible exceptions include samples submitted to laboratory within such a short time after sampling that cooling measures used in the field and during transport had insufficient time to achieve desired temperatures in the samples (see sample collection and sample receipt times) and samples where the temperature could not be measured due to sample submersion in a manner precluding temperature measurement without impacting sample integrity (ex. in a bottle with no cooler).

Sample Bottles & Preservation

- ☒ Sample received in appropriate container(s) and appear to be appropriately preserved.  
☐ Sample received in appropriate container(s). State of sample preservation unknown.  
☐ Sample received in inappropriate container(s) and/or with unknown state of preservation.

J Flag Discussion

A J flag data qualifier indicates (as required under TNRCC-TRRP reporting requirements) that the raw calculated analyte concentration in the sample (uncorrected for background levels/blanks and other potential sources of sampling and analytical contamination), though less than the Reported Quantitation Limit (RQL) is greater than the Detection Limit. Because the reported result is below the quantitation limit for this project/sample (or test procedure), GC/MS organics results may or MAY NOT have been verified as to the presence and relative ratio of target ions (eg. the material causing the J flag "hit" in such situations may be nothing more than background ion-fragment noise.)

Comments pertaining to Data Qualifiers and QC data:

| Parameter               | Qualif | Comment                      |
|-------------------------|--------|------------------------------|
| TPH by GC (as directed) | J      | See J flag discussion above. |

Notes:

Client: Environmental Tech Group  
Attn: Ken Dutton  
Address: 2540 W. Maryland  
Hobbs NM 88240  
Phone: 505 397-4382 FAX: 505 397-4701

Report#/Lab ID#: 117355 Report Date: 08/22/01  
Project ID: Darr Angell #4 EOT 2075C  
Sample Name: RW5 35'-37'  
Sample Matrix: soil  
Date Received: 07/31/2001 Time: 14:43  
Date Sampled: 07/16/2001 Time: 15:05

## REPORT OF ANALYSIS

| Parameter                 | Result | Units | RQL <sup>5</sup> | Blank | Date     | Method <sup>6</sup> | Data Qual <sup>7</sup> | Prec. <sup>2</sup> | Recov. <sup>3</sup> | CCV <sup>4</sup> | LCS <sup>1</sup> |
|---------------------------|--------|-------|------------------|-------|----------|---------------------|------------------------|--------------------|---------------------|------------------|------------------|
| TPH by GC (as diesel)     | 1.45   | mg/Kg | 1                | <1    | 08/10/01 | 8015 mod            | ---                    | 12.1               | 94.3                | 112.3            | 97.2             |
| TPH by GC (as diesel ext) | ---    | ---   | ---              | ---   | 08/03/01 | 3540                | ---                    | -NA-               | -NA-                | -NA-             | -NA-             |
| TPH by GC (as gasoline)   | <5     | mg/Kg | 5                | <5    | 08/07/01 | 8015 mod.           | ---                    | 2.5                | 87.5                | 87.5             | 88.51            |

This analytical report is respectfully submitted by AnalySys, Inc. The enclosed results have been carefully reviewed and, to the best of my knowledge, the analytical results are consistent with AnalySys, Inc.'s Quality Assurance/Quality Control Program. © Copyright 2000, AnalySys, Inc., Austin, TX. All rights reserved. No part of this publication may be reproduced or transmitted in any form or by any means without the express written consent of AnalySys, Inc.

Respectfully Submitted,

*Richard Laster*

Richard Laster

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

1. Quality assurance data is for the sample batch 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 Laboratory Control Sample (LCS) results are expressed as the percent (%) recovery of analyte from a known standard or matrix. 5. Reporting Quantitation Limits (RQL), typically at or above the Practical Quantitation Limit (PQL) of the analytical method. 6. Method numbers typically denote USEPA procedures. Less than ("<") values reflect nominal quantitation limits adjusted for any required dilutions. 7. Data Qualifiers are J = analyte potentially present between the PQL and the MQL, B = Analyte detected in associated method blank(s). S1 = MS and/or MSD recovery exceed advisory limits, S2 = Post digestion spike (PDS) recovery exceeds advisory limit, S3 = MS and/or MSD and PDS recoveries exceed advisory limits, P = Precision higher than advisory limit, M = Matrix interference.





4221 Freidrich Lane, Suite 190, Austin, TX 78744 &  
2209 N. Padre Island Dr., Corpus Christi, TX 7840408  
(512) 444-5896 FAX (512) 447-4777

Client: Environmental Tech Group  
Attn: Ken Dutton

Project ID: Darr Angell #4 EOT 2075C  
Sample Name: RW5 35'-37'

Report#/Lab ID#: 117355  
Sample Matrix: soil

REPORT OF SURROGATE RECOVERY

| Surrogate Compound    | Method    | Recovery | Recovery Limit | Data Qualifiers |
|-----------------------|-----------|----------|----------------|-----------------|
| p Terphenyl           | 8015 mod  | 99.8     | 50-150         | ---             |
| Chlorobenzene d5(Sur) | 8015 mod. | 65       | 50 - 150       | ---             |

Data Qualifiers: D= Surrogates diluted and X= Surrogates outside advisory recovery limits.

**Client:** Environmental Tech Group  
**Attn:** Ken Putton  
**Address:** 2540 W. Maryland  
Hobbs Nm 88240  
**Phone:** 505 397 4882 **FAX:** 505 397-4701

**Report#/Lab ID#:** 117356 **Report Date:** 08/22/01  
**Project ID:** Darr Angell #4 EOT 2075C  
**Sample Name:** RW5 40'-42'  
**Sample Matrix:** soil  
**Date Received:** 07/31/2001 **Time:** 14:43  
**Date Sampled:** 07/16/2001 **Time:** 15:12

## REPORT OF ANALYSIS

| Parameter                 | Result | Units | RQL <sup>5</sup> | Blank | Date     | Method <sup>6</sup> | Data Qual <sup>7</sup> | Prec. <sup>2</sup> | Recov. <sup>3</sup> | CCV <sup>4</sup> | LCS <sup>4</sup> |
|---------------------------|--------|-------|------------------|-------|----------|---------------------|------------------------|--------------------|---------------------|------------------|------------------|
| TPH by GC (as diesel)     | 2.23   | mg/Kg | 1                | <1    | 08/10/01 | 8015 mod            | ---                    | 12.1               | 94.3                | 112.3            | 97.2             |
| TPH by GC (as diesel-exo) | ---    | ---   | ---              | ---   | 08/03/01 | 3540                | ---                    | -NA-               | -NA-                | -NA-             | -NA-             |
| TPH by GC (as gasoline)   | <5     | mg/Kg | 5                | <5    | 08/07/01 | 8015 mod.           | ---                    | 2.5                | 87.5                | 87.5             | 88.51            |

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

This analytical report is respectfully submitted by AnalySys, Inc. The enclosed results have been carefully reviewed and, to the best of my knowledge, the analytical results are consistent with AnalySys, Inc.'s Quality Assurance/Quality Control Program. © Copyright 2000, AnalySys, Inc., Austin, TX. All rights reserved. No part of this publication may be reproduced or transmitted in any form or by any means without the express written consent of AnalySys, Inc.

Respectfully Submitted,

*Richard Easter*

Richard Easter

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Client: Environmental Tech Group  
 Attn: Ken Dutton

Project ID: Darr Angell #4 EOT 2075C  
 Sample Name: RW5 40'-42'

Report#/Lab ID#: 117356  
 Sample Matrix: soil

**REPORT OF SURROGATE RECOVERY**

| Surrogate Compound    | Method    | Recovery | Recovery Limit | Data Qualifiers |
|-----------------------|-----------|----------|----------------|-----------------|
| p-Terphenyl           | 8015 mod  | 133      | 50-150         | ---             |
| Chlorobenzene d5(Sur) | 8015 mod. | 66.3     | 50 - 150       | ---             |

Data Qualifiers: D= Surrogates diluted and X= Surrogates outside advisory recovery limits.

**Client:** Environmental Tech Group  
**Attn:** Ken Dutton  
**Address:** 2540 W. Maryland  
Hobbs Nm 88240  
**Phone:** 505 397-4882 **FAX:** 505 397-4701

**Report#/Lab ID#:** 117357 **Report Date:** 08/22/01  
**Project ID:** Darr Angell #4 EOT 2075C  
**Sample Name:** RW5 45'-47'  
**Sample Matrix:** soil  
**Date Received:** 07/31/2001 **Time:** 14:43  
**Date Sampled:** 07/16/2001 **Time:** 15:20

**REPORT OF ANALYSIS**

| Parameter                 | Result | Units | RQL <sup>5</sup> | Blank | Date     | Method <sup>6</sup> | Data Qual <sup>7</sup> | Prec. <sup>2</sup> | Recovery <sup>3</sup> | CCV <sup>4</sup> | LC'S <sup>4</sup> |
|---------------------------|--------|-------|------------------|-------|----------|---------------------|------------------------|--------------------|-----------------------|------------------|-------------------|
| TPH by GC (as diesel)     | 3.34   | mg/Kg | 1                | <1    | 08/10/01 | 8015 mod            | ---                    | 12.1               | 94.3                  | 112.3            | 97.2              |
| TPH by GC (as diesel-ext) | ---    | ---   | ---              | ---   | 08/03/01 | 3540                | ---                    | -NA-               | -NA-                  | -NA-             | -NA-              |
| TPH by GC (as gasoline)   | <5     | mg/Kg | 5                | <5    | 08/07/01 | 8015 mod.           | ---                    | 2.5                | 87.5                  | 87.5             | 88.51             |

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Respectfully Submitted,

*Richard Laster*

Richard Laster

1. Quality assurance data is for the sample batch 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 Laboratory Control Sample (LCS) results are expressed as the percent (%) recovery of analyte from a known standard or matrix. 5. Reporting Quantitation Limits (RQL), typically at or above the Practical Quantitation Limit (PQL) of the analytical method. 6. Method numbers typically denote USEPA procedures. Less than (" $<$ ") values reflect nominal quantitation limits adjusted for any required dilutions. 7. Data Qualifiers are J = analyte potentially present between the PQL and the MDL, B = Analyte detected in associated method blank(s), S1 = MS and/or MSD recovery exceed advisory limits, S2 = Post digestion spike (PDS) recovery exceeds advisory limit, S3 = MS and/or MSD and PDS recoveries exceed advisory limits, P = Precision higher than advisory limit, M = Matrix interference.

Client: Environmental Tech Group  
Attn: Ken Dutton

Project ID: Darr Angell #4 EOT 2075C  
Sample Name: RW5 45'-47'

Report#/Lab ID#: 117357  
Sample Matrix: soil

**REPORT OF SURROGATE RECOVERY**

| Surrogate Compound    | Method    | Recovery | Recovery Limit | Data Qualifiers |
|-----------------------|-----------|----------|----------------|-----------------|
| p-Terphenyl           | 8015 mod  | 118      | 50-150         | ---             |
| Chlorobenzene-d5(Sur) | 8015 mod. | 75.1     | 50 - 150       | ---             |

Data Qualifiers: D = Surrogates diluted and X = Surrogates outside advisory recovery limits.

Client: Environmental Tech Group  
Attn: Ken Dutton

Project ID: Darr Angell #4 EOT 2075C  
Sample Name: RW5 50'-52'

Report#/Lab ID#: 117358  
Sample Matrix: soil

**REPORT OF SURROGATE RECOVERY**

| Surrogate Compound    | Method    | Recovery     | Recovery Limit | Data Qualifiers |
|-----------------------|-----------|--------------|----------------|-----------------|
| p-Terphenyl           | 8015 mod  | none/diluted | diluted @ 100X | D               |
| Chlorobenzene d5(Sur) | 8015 mod. | 64           | 50 - 150       | ---             |
| 1,2 Dichloroethane-d4 | 8260b     | 66.5         | 65-115         | ---             |
| Toluene d8            | 8260b     | 72.4         | 50-120         | ---             |

Data Qualifiers: D = Surrogates diluted and X = Surrogates outside advisory recovery limits.

# Exceptions Report:

Report #/Lab ID#: 117358 Matrix: soil

Client: Environmental Tech Group

Project ID: Dart Angell #4 EOT 2075C

Sample Name: RW5 50' 52'

Attn: Ken Dutton

## Sample Temperature/Condition <=6°C

The typical sample temperature criteria (except for metals by ICP, GFAA and AA and a very few other tests) is <= 6°C. Possible exceptions include samples submitted to laboratory within such a short time after sampling that cooling measures used in the field and during transport had insufficient time to achieve desired temperatures in the samples (see sample collection and sample receipt times) and samples where the temperature could not be measured due to sample submission in a manner precluding temperature measurement without impacting sample integrity (ex. in a bottle with no cooler).

## Sample Bottles & Preservation

- ☒ Sample received in appropriate container(s) and appear to be appropriately preserved.
- ☐ Sample received in appropriate container(s). State of sample preservation unknown.
- ☐ Sample received in inappropriate container(s) and/or with unknown state of preservation.

## J Flag Discussion

A J flag data qualifier indicates (as required under TNRCC-TRRP reporting requirements) that the raw calculated analyte concentration in the sample (uncorrected for background levels/blanks and other potential sources of sampling and analytical contamination), though less than the Reported Quantitation Limit (RQL) is greater than the Detection Limit. Because the reported result is below the quantitation limit for this project/sample (or test procedure), GC/MS organics results may or MAY NOT have been verified as to the presence and relative ratio of target ions (eg. the material causing the J flag "hit" in such situations may be nothing more than background ion-fragment noise.)

## Comments pertaining to Data Qualifiers and QC data:

| Parameter                    | Qualif | Comment                                                                                                                                                                                                       |
|------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Volatile organics 8260hrBTEX | II     | Hold time for this parameter exceeded at time of sample receipt.                                                                                                                                              |
| p-Terphenyl                  | D      | Sample diluted to assure quantitation within calibration range or due to Matrix interferences or other matrix effects (eg. high non target organic levels). Surrogate recoveries not accurately quantifiable. |
| p-Terphenyl                  | D      |                                                                                                                                                                                                               |

## Notes:

Client: Environmental Tech Group  
Attn: Ken Dutton  
Address: 2540 W. Maryland  
Hobbs Nm 88240  
Phone: 505 397-4882 FAX: 505 397-4701

Report#/Lab ID#: 117359 Report Date: 08/22/01  
Project ID: Darr Angell #4 EOT 2075C  
Sample Name: RW5 55'-57'  
Sample Matrix: soil  
Date Received: 07/31/2001 Time: 14:43  
Date Sampled: 07/16/2001 Time: 15:38

**REPORT OF ANALYSIS**

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

| Parameter                    | Result | Units | RQL <sup>5</sup> | Blank | Date     | Method <sup>6</sup> | Data Qual <sup>7</sup> | Prec. <sup>2</sup> | Recovery <sup>3</sup> | CCV <sup>4</sup> | LCS <sup>4</sup> |
|------------------------------|--------|-------|------------------|-------|----------|---------------------|------------------------|--------------------|-----------------------|------------------|------------------|
| TPH by GC (as diesel)        | 490    | mg/Kg | 100              | <100  | 08/10/01 | 8015 mod            | ---                    | 12.1               | 94.3                  | 112.3            | 97.2             |
| TPH by GC (as diesel-ext)    | ---    | ---   | ---              | ---   | 08/03/01 | 3540                | ---                    | -NA-               | -NA-                  | -NA-             | -NA-             |
| TPH by GC (as gasoline)      | 38.4   | mg/Kg | 5                | <5    | 08/07/01 | 8015 mod.           | ---                    | 2.5                | 87.5                  | 87.5             | 88.51            |
| Volatile organics 8260b/BTEX | ---    | ---   | ---              | ---   | 08/07/01 | 8260b               | ---                    | ---                | ---                   | ---              | ---              |
| Benzene                      | 23.3   | µg/Kg | 20               | <20   | 08/07/01 | 8260b               | ---                    | 3.7                | 78.3                  | 100              | 81.1             |
| Ethylbenzene                 | <20    | µg/Kg | 20               | <20   | 08/07/01 | 8260b               | ---                    | 1                  | 96.3                  | 102.2            | 98.7             |
| m,p Xylenes                  | 33.7   | µg/Kg | 20               | <20   | 08/07/01 | 8260b               | ---                    | 0.7                | 102.1                 | 109.6            | 105.6            |
| o-Xylene                     | <20    | µg/Kg | 20               | <20   | 08/07/01 | 8260b               | J                      | 0.6                | 102                   | 102.4            | 103.8            |
| Toluene                      | <20    | µg/Kg | 20               | <20   | 08/07/01 | 8260b               | ---                    | 3.5                | 105.5                 | 110.2            | 105.2            |

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Respectfully Submitted,

*Richard Laster*

Richard Laster

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Client: Environmental Tech Group  
Attn: Ken Patton

Project ID: Dart Angell #4 EOT 2075C  
Sample Name: RW5 55'-57'

Report#/Lab ID#: 117359  
Sample Matrix: soil

**REPORT OF SURROGATE RECOVERY**

| Surrogate Compound    | Method    | Recovery     | Recovery Limit | Data Qualifiers |
|-----------------------|-----------|--------------|----------------|-----------------|
| p-Terphenyl           | 8015 mod  | none/diluted | diluted @ 100X | D               |
| Chlorobenzene d5(Sur) | 8015 mod. | 70.6         | 50 - 150       | ---             |
| 1,2-Dichloroethane-d1 | 8260b     | 71.6         | 65-115         | ---             |
| Toluene d8            | 8260b     | 77.2         | 50-120         | ---             |

Data Qualifiers: D= Surrogates diluted and X= Surrogates outside advisory recovery limits.

## Exceptions Report:

|                                    |              |                  |
|------------------------------------|--------------|------------------|
| Report #/Lab ID#: 117359           | Matrix: soil | Attn: Ken Dutton |
| Client: Environmental Tech Group   |              |                  |
| Project ID: Dar Angel #4 EOT 2075C |              |                  |
| Sample Name: RW5 55'-57'           |              |                  |

### Sample Temperature/Condition <=6°C

The typical sample temperature criteria (except for metals by ICP, GFAA and AA and a very few other tests) is <= 6°C. Possible exceptions include samples submitted to laboratory within such a short time after sampling that cooling measures used in the field and during transport had insufficient time to achieve desired temperatures in the samples (see sample collection and sample receipt times) and samples where the temperature could not be measured due to sample submission in a manner precluding temperature measurement without impacting sample integrity (ex. in a bottle with no cooler).

### Sample Bottles & Preservation

- ☒ Sample received in appropriate container(s) and appear to be appropriately preserved.  
☐ Sample received in appropriate container(s). State of sample preservation unknown.  
☐ Sample received in inappropriate container(s) and/or with unknown state of preservation.

### J Flag Discussion

A J flag data qualifier indicates (as required under TNRCC-TRRP reporting requirements) that the raw calculated analyte concentration in the sample (uncorrected for background levels/blanks and other potential sources of sampling and analytical contamination), though less than the Reported Quantitation Limit (RQL) is greater than the Detection Limit. Because the reported result is below the quantitation limit for this project/sample (or test procedure), GC/MS organics results may or MAY NOT have been verified as to the presence and relative ratio of target ions (eg. the material causing the J flag "hit" in such situations may be nothing more than background ion fragment noise.)

### Comments pertaining to Data Qualifiers and QC data:

| Parameter                   | Qualifier | Comment                                                                                                                                            |
|-----------------------------|-----------|----------------------------------------------------------------------------------------------------------------------------------------------------|
| Volatile organics 8260/8270 | 11        | Hold time for this parameter exceeded at time of sample receipt.                                                                                   |
| o-Xylene                    | J         | See J flag discussion above.                                                                                                                       |
| p-Toluenyl                  | 11        | Sample diluted to assure quantitation within calibration range or due to Matrix interferences or other matrix effects (eg. high non target organic |
| p-Propylbenzyl              | 11        | levels). Surrogate recoveries not accurately quantifiable.                                                                                         |

### Notes:

Client: Environmental Tech Group  
Attn: Ken Dutton  
Address: 2540 W. Maryland  
Hobbs NM 88240  
Phone: 505 397-4882 FAX: 505 397-4701

Report#/Lab ID#: 117360 Report Date: 08/22/01  
Project ID: Darr Angell #4 EOT 2075C  
Sample Name: RW5 60'-62'  
Sample Matrix: soil  
Date Received: 07/31/2001 Time: 14:43  
Date Sampled: 07/16/2001 Time: 15:52

## REPORT OF ANALYSIS

| Parameter                    | Result | Units | RQL <sup>5</sup> | Blank | Date     | Method <sup>6</sup> | Data Qual <sup>7</sup> | Prec. <sup>2</sup> | Recov. <sup>3</sup> | CCV <sup>4</sup> | LC'S <sup>4</sup> |
|------------------------------|--------|-------|------------------|-------|----------|---------------------|------------------------|--------------------|---------------------|------------------|-------------------|
| TPH by GC (as diesel)        | 99.2   | mg/Kg | 10               | <10   | 08/10/01 | 8015 mod            | ---                    | 12.1               | 94.3                | 112.3            | 97.2              |
| TPH by GC (as diesel ext)    | ---    | ---   | ---              | ---   | 08/03/01 | 3540                | ---                    | -NA-               | -NA-                | -NA-             | -NA-              |
| TPH by GC (as gasoline)      | 38     | mg/Kg | 5                | <5    | 08/07/01 | 8015 mod.           | ---                    | 2.5                | 87.5                | 87.5             | 88.51             |
| Volatile organics 8260b/BTEX | ---    | ---   | ---              | ---   | 08/07/01 | 8260b               | ---                    | ---                | ---                 | ---              | ---               |
| Benzene                      | 25.5   | µg/Kg | 20               | <20   | 08/07/01 | 8260b               | ---                    | 3.7                | 78.3                | 100              | 81.1              |
| Ethylbenzene                 | 112    | µg/Kg | 20               | <20   | 08/07/01 | 8260b               | ---                    | 1                  | 96.3                | 102.2            | 98.7              |
| m,p-Xylenes                  | 68.9   | µg/Kg | 20               | <20   | 08/07/01 | 8260b               | ---                    | 0.7                | 102.1               | 109.6            | 105.6             |
| o-Xylene                     | 121    | µg/Kg | 20               | <20   | 08/07/01 | 8260b               | ---                    | 0.6                | 102                 | 102.4            | 103.8             |
| Toluene                      | 43.5   | µg/Kg | 20               | <20   | 08/07/01 | 8260b               | ---                    | 3.5                | 105.5               | 110.2            | 105.2             |

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

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Respectfully Submitted,

*Richard Laster*

Richard Laster

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Client: Environmental Tech Group  
Attn: Ken Dutton

Project ID: Dam Angell #4 EOT 2075C  
Sample Name: RW5 60'-62'

Report#/Lab ID#: 117360  
Sample Matrix: soil

**REPORT OF SURROGATE RECOVERY**

| Surrogate Compound    | Method    | Recovery     | Recovery Limit | Data Qualifiers |
|-----------------------|-----------|--------------|----------------|-----------------|
| p-Terphenyl           | 8015 mod  | none/diluted | diluted @ 10X  | D               |
| Chlorobenzene d5(Sur) | 8015 mod. | 70.7         | 50 - 150       | ---             |
| 1,2-Dichloroethane d1 | 8260b     | 73.7         | 65-115         | ---             |
| Toluene-d8            | 8260b     | 75.8         | 50-120         | ---             |

Data Qualifiers: D= Surrogates diluted and X= Surrogates outside advisory recovery limits.

# Exceptions Report:

Report #/Lab ID#: 117360 Matrix: soil  
Client: Environmental Tech Group Attn: Ken Dutton  
Project ID: Darr Angell #4 EOT 2075C  
Sample Name: RW5 60'-62'

## Sample Temperature/Condition <=6°C

The typical sample temperature criteria (except for metals by ICP, GF/AA and AA and a very few other tests) is <= 6°C. Possible exceptions include samples submitted to laboratory within such a short time after sampling that cooling measures used in the field and during transport had insufficient time to achieve desired temperatures in the samples (see sample collection and sample receipt times) and samples where the temperature could not be measured due to sample submission in a manner precluding temperature measurement without impacting sample integrity (ex. in a bottle with no cooler).

## Sample Bottles & Preservation

- ☒ Sample received in appropriate container(s) and appear to be appropriately preserved.
- ☐ Sample received in appropriate container(s). State of sample preservation unknown.
- ☐ Sample received in inappropriate container(s) and/or with unknown state of preservation.

## J flag Discussion

A J flag data qualifier indicates (as required under TNRCC-TRRP reporting requirements) that the raw calculated analyte concentration in the sample (uncorrected for background levels/blanks and other potential sources of sampling and analytical contamination), though less than the Reported Quantitation Limit (RQL) is greater than the Detection Limit. Because the reported result is below the quantitation limit for this project/sample (or test procedure), GC/MS organics results may or MAY NOT have been verified as to the presence and relative ratio of target ions (eg. the material causing the J flag "hit" in such situations may be nothing more than background ion fragment noise.)

## Comments pertaining to Data Qualifiers and QC data:

| Parameter                      | Qualif | Comment                                                                                                                                                                                                       |
|--------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Volatile organics: 8 volatiles | H      | Hold time for this parameter exceeded at time of sample receipt.                                                                                                                                              |
| p-Terphenyl                    | D      | Sample diluted to assure quantitation within calibration range or due to Matrix interferences or other matrix effects (eg. high non target organic levels). Surrogate recoveries not accurately quantifiable. |
| p-Terphenyl                    | D      |                                                                                                                                                                                                               |

## Notes:

**Client:** Environmental Tech Group  
**Attn:** Ken Dutton  
**Address:** 2540 W. Maryland  
Hobbs Nm 88240  
**Phone:** 505 397-4882 **FAX:** 505 397-4701

**Report#/Lab ID#:** 117361 **Report Date:** 08/22/01  
**Project ID:** Darr Angell #4 EOT 2075C  
**Sample Name:** RW5 65'-67'  
**Sample Matrix:** soil  
**Date Received:** 07/31/2001 **Time:** 14:13  
**Date Sampled:** 07/16/2001 **Time:** 16:00

## REPORT OF ANALYSIS

| Parameter                 | Result | Units | RQL <sup>5</sup> | Blank | Date     | Method <sup>6</sup> | Data Qual <sup>7</sup> | Prec. <sup>2</sup> | Recov. <sup>3</sup> | CCV <sup>4</sup> | LCSt <sup>4</sup> |
|---------------------------|--------|-------|------------------|-------|----------|---------------------|------------------------|--------------------|---------------------|------------------|-------------------|
| TPH by GC (as diesel)     | 288    | mg/Kg | 100              | <100  | 08/10/01 | 8015 mod            | ---                    | 12.1               | 94.3                | 112.3            | 97.2              |
| TPH by GC (as diesel ext) | ---    | ---   | ---              | ---   | 08/03/01 | 3540                | ---                    | -NA-               | -NA-                | -NA-             | -NA-              |
| TPH by GC (as gasoline)   | 25.7   | mg/Kg | 5                | <5    | 08/07/01 | 8015 mod.           | ---                    | 2.5                | 87.5                | 87.5             | 88.51             |

This analytical report is respectfully submitted by Analysts, Inc. The enclosed results have been carefully reviewed and, to the best of my knowledge, the analytical results are consistent with Analysts, Inc.'s Quality Assurance/Quality Control Program. © Copyright 2000, Analysts, Inc., Austin, TX. All rights reserved. No part of this publication may be reproduced or transmitted in any form or by any means without the express written consent of Analysts, Inc.

Respectfully Submitted,

*Richard Laster*

Richard Laster

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

1. Quality assurance data is for the sample batch 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 Laboratory Control Sample (LCS) results are expressed as the percent (%) recovery of analyte from a known standard or matrix. 5. Reporting Quantitation Limits (RQL), typically at or above the Practical Quantitation Limit (PQL) of the analytical method. 6. Method numbers typically denote USEPA procedures. Less than (" $<$ ") values reflect nominal quantitation limits adjusted for any required dilutions. 7. Data Qualifiers are J = analyte potentially present between the PQL and the MDL, B = Analyte detected in associated method blank(s), S1 = MS and/or MSD recovery exceed advisory limits, S2 = Post digestion spike (PDS) recovery exceeds advisory limit, S3 = MS and/or MSD and PDS recoveries exceed advisory limits, P = Precision higher than advisory limit, M = Matrix interference.

Client: Environmental Tech Group  
Attn: Ken Dutton

Project ID: Darr Angell #4 EOT 2075C  
Sample Name: RW5 65'-67'

Report/Lab ID#: 117361  
Sample Matrix: soil

**REPORT OF SURROGATE RECOVERY**

| Surrogate Compound    | Method    | Recovery     | Recovery Limit | Data Qualifiers |
|-----------------------|-----------|--------------|----------------|-----------------|
| p-Terphenyl           | 8015 mod  | none/diluted | diluted @ 100X | D               |
| Chlorobenzene-d5(Sur) | 8015 mod. | 66.9         | 50 - 150       | ---             |

Data Qualifiers: D= Surrogates diluted and N= Surrogates outside advisory recovery limits.

# Exceptions Report:

Report #/Lab ID#: 117361 Matrix: soil  
Client: Environmental Tech Group  
Project ID: Darr Angell #4 EOT 2075C  
Sample Name: RW5 65' 67'  
Attn: Ken Dutton

## Sample Temperature/Condition <=6°C

The typical sample temperature criteria (except for metals by ICP, GFAA and AA and a very few other tests) is <= 6°C. Possible exceptions include samples submitted to laboratory within such a short time after sampling that cooling measures used in the field and during transport had insufficient time to achieve desired temperatures in the samples (see sample collection and sample receipt times) and samples where the temperature could not be measured due to sample submission in a manner precluding temperature measurement without impacting sample integrity (ex. in a bottle with no cooler).

## Sample Bottles & Preservation

- ☒ Sample received in appropriate container(s) and appear to be appropriately preserved.
- ☐ Sample received in appropriate container(s). State of sample preservation unknown.
- ☐ Sample received in inappropriate container(s) and/or with unknown state of preservation.

## J Flag Discussion

A J flag data qualifier indicates (as required under TNRCC-TRRP reporting requirements) that the raw calculated analyte concentration in the sample (uncorrected for background levels/blanks and other potential sources of sampling and analytical contamination), though less than the Reported Quantitation Limit (RQL) is greater than the Detection Limit. Because the reported result is below the quantitation limit for this project/sample (or test procedure), GC/MS organics results may or MAY NOT have been verified as to the presence and relative ratio of target ions (eg. the material causing the J flag "hit" in such situations may be nothing more than background ion-fragment noise.)

## Comments pertaining to Data Qualifiers and QC data:

| Parameter   | Qualif | Comment                                                                                                                                                                                                       |
|-------------|--------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| p-Terphenyl | D      | Sample diluted to assure quantitation within calibration range or due to Matrix interferences or other matrix effects (eg. high non target organic levels). Surrogate recoveries not accurately quantifiable. |
| p-Terphenyl | D      |                                                                                                                                                                                                               |

Notes:



# CHAIN-OF-CUSTODY

**Send Reports To:**

Company Name: **ETGI**

Address 2540 W MARLBORO

City 5638 State NM Zip 88241

WINN DEN DUTTON

Phone: 1-800-233-7777 Fax: 1-800-233-7777

Rach Status: (must be confirmed with, lab mgr.): \_\_\_\_\_

Project Name/PO#: Darr Angel # 4 Sampler:

E013075C

**Bill to (if different):**

Company Name Cost

Address

City \_\_\_\_\_ State \_\_\_\_\_ Zip \_\_\_\_\_

ATTN:

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

Simon C. Co.

### Analyses Requested (1)

Please attach explanatory information as required

| Client Sample No.<br>Description/Identification | Date<br>Sampled | Time<br>Sampled | No. of<br>Containers | Soil | Water | Waste | Lab I.D. #<br>(Lab only) |
|-------------------------------------------------|-----------------|-----------------|----------------------|------|-------|-------|--------------------------|
| MW-1 0'-2'                                      | 7-3-01          | 1100            | 1                    | X    |       |       | 117334                   |
| MW-1 5'-7'                                      |                 | 1115            |                      |      |       |       | 117335                   |
| MW-1 10'-12'                                    |                 | 1127            |                      |      |       |       | 117336                   |
| MW-1 15'-17'                                    |                 | 1135            |                      |      |       |       | 117337                   |
| MW-1 20'-22'                                    |                 | 1142            |                      |      |       |       | 117338                   |
| MW-1 25'-27'                                    | 7-16-01         | 1000            |                      |      |       |       | 117339                   |
| MW-1 30'-32'                                    |                 | 1125            |                      |      |       |       | 117340                   |
| MW-1 35'-37'                                    |                 | 1135            |                      |      |       |       | 117341                   |
| MW-1 40'-42'                                    |                 | 1140            |                      |      |       |       | 117342                   |
| MW-1 45'-47'                                    |                 | 1145            |                      |      |       |       | 117343                   |

For indices 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 system (i.e., ASI's data management system). 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 ASI's 103 list. Specific compound lists must be supplied for all GC procedures.

| Sample Relinquished By |             |         | Sample Received By |             |         | Date | Time |
|------------------------|-------------|---------|--------------------|-------------|---------|------|------|
| Name                   | Affiliation | Date    | Name               | Affiliation | Date    |      |      |
| James Lewis            |             | 7-30-91 | P. L. E. S.        | ASX         | 7-30-91 |      | 7:40 |

Temp. 100°

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

COC 9/2 2 20 3

CHAIN-OF-CUSTODY



4221 Freidrich Lane, Suite 190, Austin, TX 78744  
 Phone: (512) 444-5806  
 Fax: (512) 447-4766

Bill to (if different):

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

Send Reports To:  
 Company Name EOT  
 Address 2540 W. MARLBAND  
 City HOUSTON State NM Zip 88240  
 ATTN: KEVIN DUNN  
 Phone: (505) 397-8888 Fax: (505) 397-4701

Rush Status (must be confirmed with lab mgr.): \_\_\_\_\_

Project Name/PO#: Darr Angelo #4 Sampler: Jason Carr

EOT 2075C

| Client Sample No.<br>Description/Identification | Date<br>Sampled | Time<br>Sampled | No. of<br>Containers | Soil | Water | Waste | Lab I.D. #<br>(Lab only) | Analyses Requested (1)                            |                 |
|-------------------------------------------------|-----------------|-----------------|----------------------|------|-------|-------|--------------------------|---------------------------------------------------|-----------------|
|                                                 |                 |                 |                      |      |       |       |                          | Please attach explanatory information as required |                 |
| HW 4 50'-52'                                    | 7-16-01         | 1150            | 1                    | X    |       |       | 117344                   |                                                   | TPH 80% DRO/80% |
| HW 4 55'-57'                                    |                 | 1200            |                      |      |       |       | 117345                   |                                                   |                 |
| HW 4 60'-62'                                    |                 | 1210            |                      |      |       |       | 117346                   |                                                   |                 |
| HW 4 65'-67'                                    |                 | 1215            |                      |      |       |       | 117347                   |                                                   |                 |
| RW 5 0'-2'                                      | 7-16-01         | 1410            |                      |      |       |       | 117348                   |                                                   |                 |
| RW 5 5'-7'                                      |                 | 1420            |                      |      |       |       | 117349                   |                                                   |                 |
| RW 5 10'-12'                                    |                 | 1430            |                      |      |       |       | 117350                   |                                                   |                 |
| RW 5 15'-17'                                    |                 | 1437            |                      |      |       |       | 117351                   |                                                   |                 |
| RW 5 20'-22'                                    |                 | 1445            |                      |      |       |       | 117352                   |                                                   |                 |
| RW 5 25'-27'                                    |                 | 1455            |                      |      |       |       | 117353                   |                                                   |                 |

Analyses 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 format (HPLC, GC). 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 ASI, HPLC, but at ASI's option. Specific compound lists must be supplied for all GC procedures.

Temp. 1.0°C

| Sample Relinquished By |             |         | Sample Received By |             |         |
|------------------------|-------------|---------|--------------------|-------------|---------|
| Name                   | Affiliation | Date    | Name               | Affiliation | Date    |
| Kevin Carr             |             | 7-31-01 | Jason Carr         | ASI         | 7-31-01 |
|                        |             |         |                    |             | 11:45   |

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

Loc 92 088

# CHAIN-OF-CUSTODY

Send Reports To:

Company Name ETGI

Address 2540 W MARLAND

City HOUSTON State TX Zip 77040

ATTN: KEN DUTTON

Phone (505) 372-4122 Fax (505) 397-4701

Bill to (if different):

Company Name EOI

Address \_\_\_\_\_

City \_\_\_\_\_ State \_\_\_\_\_ Zip \_\_\_\_\_

ATTN: \_\_\_\_\_

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



4221 Freidrich Lane, Suite 190, Austin, TX 78744  
Phone: (512) 444-5896  
Fax: (512) 447-4766

Analyzes Requested (1)  
Please attach explanatory information as required

| Client Sample No.<br>Description/Identification | Date<br>Sampled | Time<br>Sampled | No. of<br>Containers | Soil | Water | Waste | Lab I.D. #<br>(Lab only) | Comments |
|-------------------------------------------------|-----------------|-----------------|----------------------|------|-------|-------|--------------------------|----------|
| RWS 30'-32'                                     | 7-16-01         | 1500            | 1                    | X    |       |       |                          |          |
| RWS 35'-37'                                     |                 | 1505            | 1                    |      |       |       |                          |          |
| RWS 40'-42'                                     |                 | 1512            | 1                    |      |       |       |                          |          |
| RWS 45'-47'                                     |                 | 1520            | 1                    |      |       |       |                          |          |
| RWS 50'-52'                                     |                 | 1530            | 1                    |      |       |       |                          |          |
| RWS 55'-57'                                     |                 | 1538            | 1                    |      |       |       |                          |          |
| RWS 60'-62'                                     |                 | 1552            | 1                    |      |       |       |                          |          |
| RWS 65'-67'                                     |                 | 1600            | 1                    |      |       |       |                          |          |

TPH 8015 260/500  
BTEX 8015 260/500

Rush Status (must be confirmed with lab mgr.): \_\_\_\_\_  
Project Name/PO#: Darr Angell #4 Sampler: Samuel Ceras

EOI 2075C

(1) Unless 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 limits (MRL/PLU). 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 ASI's HSI 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 |
| Samuel Ceras           |             | 7-30-01 |                    |             |      |

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

**Client:** Environmental Tech Group

**Attn:** Ken Dutton

**Address:** 2510 W. Maryland  
Hobbs

Num 88240

**Phone:** 505 397-4882 **FAX:** 505 397-4701

**Report#/Lab ID#:** 117405 **Report Date:** 08/17/01

**Project ID:** Darr Angell #4 / EOT 2075R

**Sample Name:** RW-6, 5'-7'

**Sample Matrix:** soil

**Date Received:** 08/01/2001 **Time:** 11:06

**Date Sampled:** 07/27/2001 **Time:** 08:45

## **REPORT OF ANALYSIS**

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

| Parameter                 | Result | Units | RQL <sup>5</sup> | Blank | Date     | Method <sup>6</sup> | Data Qual <sup>7</sup> | Prec. <sup>2</sup> | Recov. <sup>3</sup> | CCV <sup>4</sup> | LCS <sup>4</sup> |
|---------------------------|--------|-------|------------------|-------|----------|---------------------|------------------------|--------------------|---------------------|------------------|------------------|
| TPH by GC (as diesel)     | 2.96   | mg/Kg | 1                | <1    | 08/15/01 | 8015 mod            | ---                    | 3                  | 120.8               | 119.6            | 116.2            |
| TPH by GC (as diesel ext) | ---    | ---   | ---              | ---   | 08/09/01 | 3540                | ---                    | -NA-               | -NA-                | -NA-             | -NA-             |
| TPH by GC (as gasoline)   | <5     | mg/Kg | 5                | <5    | 08/10/01 | 8015 mod.           | ---                    | 6.18               | 85.5                | 89.1             | 86.88            |

This analytical report is respectfully submitted by AnalySys, Inc. The enclosed results have been carefully reviewed and, to the best of my knowledge, the analytical results are consistent with AnalySys, Inc.'s Quality Assurance/Quality Control Program. © Copyright 2000, AnalySys, Inc., Austin, TX. All rights reserved. No part of this publication may be reproduced or transmitted in any form or by any means without the express written consent of AnalySys, Inc.

Respectfully Submitted,

*Richard Easter*

Richard Easter

1. Quality assurance data is for the sample batch 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 Laboratory Control Sample (LCS) results are expressed as the percent (%) recovery of analyte from a known standard or matrix. 5. Reporting Quantitation Limits (RQL), typically at or above the Practical Quantitation Limit (PQL) of the analytical method. 6. Method numbers typically denote USEPA procedures. Less than ("<") values reflect nominal quantitation limits adjusted for any required dilutions. 7. Data Qualifiers are J = analyte potentially present between the PQL and the MDL, B = Analyte detected in associated method blank(s). S1 = MS and/or MSD recovery exceed advisory limits. S2 = Post digestion spike (PDS) recovery exceeds advisory limit. S3 = MS and/or MSD and PDS recoveries exceed advisory limits. P = Precision higher than advisory limit. M = Matrix interference.

Client: Environmental Tech Group  
Attn: Ken Dutton

Project ID: Darr Angell #4 / EOT 2075R  
Sample Name: RW-6, 5'-7'

Report#/Lab ID#: 117-105  
Sample Matrix: soil

**REPORT OF SURROGATE RECOVERY**

| Surrogate Compound    | Method    | Recovery | Recovery Limit | Data Qualifiers |
|-----------------------|-----------|----------|----------------|-----------------|
| p-Toluenyl            | 8015 mod  | 74.2     | 50-150         | ---             |
| Chlorobenzene d5(Std) | 8015 mod. | 69.9     | 50 - 150       | ---             |

Data Qualifiers: D= Surrogates diluted and N= Surrogates outside advisory recovery limits.

**Client:** Environmental Tech Group  
**Attn:** Ken Dutton  
**Address:** 2510 W. Maryland  
Hobbs NM 88240  
**Phone:** 505 397-4882 **FAX:** 505 397-4701

**Report#/Lab ID#:** 117406 **Report Date:** 08/17/01  
**Project ID:** Darr Angell #4 / EOT 2075R  
**Sample Name:** RW-6, 10,-12'  
**Sample Matrix:** soil  
**Date Received:** 08/01/2001 **Time:** 11:06  
**Date Sampled:** 07/27/2001 **Time:** 08:55

## REPORT OF ANALYSIS

| Parameter                  | Result | Units | RQL <sup>5</sup> | Blank | Date     | Method <sup>6</sup> | Data Qual <sup>7</sup> | Prec. <sup>2</sup> | Recov. <sup>3</sup> | CCV <sup>4</sup> | LCS <sup>4</sup> |
|----------------------------|--------|-------|------------------|-------|----------|---------------------|------------------------|--------------------|---------------------|------------------|------------------|
| TPH by GC (gas diesel)     | 8.93   | mg/Kg | 1                | <1    | 08/15/01 | 8015 mod            | ---                    | 3                  | 120.8               | 119.6            | 116.2            |
| TPH by GC (gas diesel ext) | ---    | ---   | ---              | ---   | 08/09/01 | 3540                | ---                    | -NA-               | -NA-                | -NA-             | -NA-             |
| TPH by GC (gas gasoline)   | <5     | mg/Kg | 5                | <5    | 08/10/01 | 8015 mod.           | ---                    | 6.18               | 85.5                | 89.1             | 86.88            |

This analytical report is respectfully submitted by AnalySys, Inc. The enclosed results have been carefully reviewed and, to the best of my knowledge, the analytical results are consistent with AnalySys, Inc.'s Quality Assurance/Quality Control Program. © Copyright 1999, AnalySys, Inc., Austin, TX. All rights reserved. No part of this publication may be reproduced or transmitted in any form or by any means without the express written consent of AnalySys, Inc.

Respectfully Submitted,

*Richard Easter*

Richard Easter

1. Quality assurance data is for the sample batch which included this sample. 2. Precision (PQL) 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 Laboratory Control Sample (LCS) results are expressed as the percent (%) recovery of analyte from a known standard or matrix. 5. Reporting Quantitation Limits (RQL), typically at or above the Practical Quantitation Limit (PQL) of the analytical method. 6. Method numbers typically denote USEPA procedures. Less than ("<") values reflect nominal quantitation limits adjusted for any required dilutions. 7. Data Qualifiers are J = MS and/or MSD recovery exceeds advisory limits. S2 = Post digestion spike (PDS) associated method blank(s). S1 = MS and/or MSD recovery exceeds advisory limits. S3 = MS and/or MSD recovery exceeds advisory limits. P = Precision higher than advisory limit. M = Matrix interference.

|                                                      |                                                                       |                                                |
|------------------------------------------------------|-----------------------------------------------------------------------|------------------------------------------------|
| Client: Environmental Tech Group<br>Attn: Ken Dutton | Project ID: Darr Angell #4 / EOT 2075R<br>Sample Name: RW-6, 10',-12' | Report#/Lab ID#: 117406<br>Sample Matrix: soil |
|------------------------------------------------------|-----------------------------------------------------------------------|------------------------------------------------|

**REPORT OF SURROGATE RECOVERY**

| Surrogate Compound    | Method    | Recovery | Recovery Limit | Data Qualifiers |
|-----------------------|-----------|----------|----------------|-----------------|
| p-Toluenyl            | 8015 mod  | 51.5     | 50-150         | ---             |
| Chlorobenzene d5(Sur) | 8015 mod. | 70.7     | 50 - 150       | ---             |

Data Qualifiers: D=Surrogates diluted and N= Surrogates outside advisory recovery limits.

Client: Environmental Tech Group  
Attn: Ken Dutton  
Address: 2540 W. Maryland  
Hobbs NM 88240  
Phone: 505 397-4882 FAX: 505 397-4701

Report#/Lab ID#: 117407 Report Date: 08/17/01  
Project ID: Darr Angell #4 / EOT 2075R  
Sample Name: RW-6, 15'-16'  
Sample Matrix: soil  
Date Received: 08/01/2001 Time: 11:06  
Date Sampled: 07/27/2001 Time: 09:25

**REPORT OF ANALYSIS**

| Parameter                 | Result | Units | RQL <sup>5</sup> | Blank | Date     | Method <sup>6</sup> | Data Qual <sup>7</sup> | Prec. <sup>2</sup> | Recov. <sup>3</sup> | CCV <sup>4</sup> | LCS <sup>4</sup> |
|---------------------------|--------|-------|------------------|-------|----------|---------------------|------------------------|--------------------|---------------------|------------------|------------------|
| TPH by GC (as diesel)     | 2.35   | mg/Kg | 1                | <1    | 08/15/01 | 8015 mod            | ---                    | 3                  | 120.8               | 119.6            | 116.2            |
| TPH by GC (as diesel ext) | ---    | ---   | ---              | ---   | 08/09/01 | 3540                | ---                    | -NA-               | -NA-                | -NA-             | -NA-             |
| TPH by GC (as gasoline)   | <5     | mg/Kg | 5                | <5    | 08/10/01 | 8015 mod.           | ---                    | 6.18               | 85.5                | 89.1             | 86.88            |

This analytical report is respectfully submitted by AnalySys, Inc. The enclosed results have been carefully reviewed and, to the best of my knowledge, the analytical results are consistent with AnalySys, Inc.'s Quality Assurance/Quality Control Program. © Copyright 2000, AnalySys, Inc., Austin, TX. All rights reserved. No part of this publication may be reproduced or transmitted in any form or by any means without the express written consent of AnalySys, Inc.

Respectfully Submitted,  
*Richard Laster*  
Richard Laster

1. Quality assurance data is for the sample batch 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 Laboratory Control Sample (LCS) results are expressed as the percent (%) recovery of analyte from a known standard or matrix. 5. Reporting Quantitation Limits (RQL), typically at or above the Practical Quantitation Limit (PQL) of the analytical method. 6. Method numbers typically denote USEPA procedures. Less than ("<") values reflect nominal quantitation limits adjusted for any required dilutions. 7. Data Qualifiers are: S1 = MS and/or MSD recovery exceed advisory limits; S2 = Post digestion spike (PDS) associated method blank(s); S3 = MS and/or MSD recovery exceed advisory limits; P = Precision higher than advisory limit; M = Matrix interference.



Client: Environmental Tech Group  
Attn: Ken Dutton

Project ID: Dart Angell #4 / EOT 2075R  
Sample Name: RW-6, 15'-16'

Report#/Lab ID#: 117407  
Sample Matrix: soil

REPORT OF SURROGATE RECOVERY

| Surrogate Compound    | Method   | Recovery | Recovery Limit | Data Qualifiers |
|-----------------------|----------|----------|----------------|-----------------|
| p-Terphenyl           | 8015 mod | 58       | 50-150         | ---             |
| Chlorobenzene d5(Sur) | 8015 mod | 76.8     | 50 - 150       | ---             |

Data Qualifiers: D=Surrogates diluted and X= Surrogates outside advisory recovery limits.

Client: Environmental Tech Group

Attn: Ken Outton

Address: 2510 W. Maryland  
Hobbs

Nm 88240

Phone: 505 397-4882 FAX: 505 397-4701

Report#/Lab ID#: 117408 Report Date: 08/17/01

Project ID: Darr Angell #4 / EOT 2075R

Sample Name: RW-6, 20'-22'

Sample Matrix: soil

Date Received: 08/01/2001 Time: 11:06

Date Sampled: 07/27/2001 Time: 09:45

## REPORT OF ANALYSIS

| Parameter                 | Result | Units | RQL <sup>5</sup> | Blank | Date     | Method <sup>6</sup> | Data Qual <sup>7</sup> | Prec. <sup>2</sup> | Recov. <sup>3</sup> | CCV <sup>4</sup> | L.C.S. <sup>4</sup> |
|---------------------------|--------|-------|------------------|-------|----------|---------------------|------------------------|--------------------|---------------------|------------------|---------------------|
| TPH by GC (as diesel)     | 1.74   | mg/Kg | 1                | <1    | 08/15/01 | 8015 mod            | ---                    | 3                  | 120.8               | 119.6            | 116.2               |
| TPH by GC (as diesel ext) | ---    | ---   | ---              | ---   | 08/09/01 | 3540                | ---                    | -NA-               | -NA-                | -NA-             | -NA-                |
| TPH by GC (as gasoline)   | <5     | mg/Kg | 5                | <5    | 08/10/01 | 8015 mod.           | ---                    | 6.18               | 85.5                | 89.1             | 86.88               |

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Respectfully Submitted,

*Richard Laster*

Richard Laster

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

1. Quality assurance data is for the sample batch 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 Laboratory Control Sample (L.C.S.) results are expressed as the percent (%) recovery of analyte from a known standard or matrix. 5. Reporting Quantitation Limits (RQL), typically at or above the Practical Quantitation Limit (PQL) of the analytical method. 6. Method numbers typically denote USEPA procedures. Less than ("<") values reflect nominal quantitation limits adjusted for any required dilutions. 7. Data Qualifiers are J = analyte potentially present between the PQL and the MDL. B = Analyte detected in associated method blank(s). S1 = MS and/or MSD recovery exceed advisory limits. S2 = Post digestion spike (PDS) recovery exceeds advisory limit. S3 = MS and/or MSD and PDS recoveries exceed advisory limits. P = Precision higher than advisory limit. M = Matrix interference.

Client: Environmental Tech Group  
Attn: Ken Dutton

Project ID: Dair Angell #4 / EOT 2075R  
Sample Name: RW-6, 20'-22'

Report#/Lab ID#: 117-108  
Sample Matrix: soil

**REPORT OF SURROGATE RECOVERY**

| Surrogate Compound    | Method    | Recovery | Recovery Limit | Data Qualifiers |
|-----------------------|-----------|----------|----------------|-----------------|
| p-Terphenyl           | 8015 mod  | 70.7     | 50-150         | ---             |
| Chlorobenzene d5(Sur) | 8015 mod. | 74       | 50 - 150       | ---             |

Data Qualifiers: D = Surrogates diluted and X = Surrogates outside advisory recovery limits.

**Client:** Environmental Tech Group

**Attn:** Ken Outton

**Address:** 2510 W. Maryland  
 Hobbs

Nm 88240

**Phone:** 505 397-4882 **FAX:** 505 397-4701

**Report#/Lab ID#:** 117409 **Report Date:** 08/17/01

**Project ID:** Darr Angell #4 / EOT 2075R

**Sample Name:** RW-6, 24'-26'

**Sample Matrix:** soil

**Date Received:** 08/01/2001 **Time:** 11:06

**Date Sampled:** 07/27/2001 **Time:** 09:53

## REPORT OF ANALYSIS

| Parameter                 | Result | Units | RQL <sup>5</sup> | Blank | Date     | Method <sup>6</sup> | Data Qual <sup>7</sup> | Prec. <sup>2</sup> | Recov. <sup>3</sup> | CCV <sup>4</sup> | LCS <sup>4</sup> |
|---------------------------|--------|-------|------------------|-------|----------|---------------------|------------------------|--------------------|---------------------|------------------|------------------|
| TPH by GC (as diesel)     | 2.94   | mg/Kg | 1                | <1    | 08/15/01 | 8015 mod            | ---                    | 3                  | 120.8               | 119.6            | 116.2            |
| TPH by GC (as diesel-exd) | ---    | ---   | ---              | ---   | 08/11/01 | 3540                | ---                    | -NA-               | -NA-                | -NA-             | -NA-             |
| TPH by GC (as gasoline)   | <5     | mg/Kg | 5                | <5    | 08/10/01 | 8015 mod.           | ---                    | 6.18               | 85.5                | 89.1             | 86.88            |

This analysis of report is respectfully submitted by AnalySys, Inc. The enclosed results have been carefully reviewed and, to the best of my knowledge, the analytical results are in accordance with AnalySys, Inc.'s Quality Assurance/Quality Control Program. © Copyright 2000, AnalySys, Inc., Austin, TX. All rights reserved. No part of this publication may be reproduced or transmitted in any form or by any means without the express written consent of AnalySys, Inc.

Respectfully Submitted,

*Richard Lastor*

Richard Lastor

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

1. Quality assurance data is for the sample batch 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 Laboratory Control Sample (LCS) results are expressed as the percent (%) recovery of analyte from a known standard or matrix. 5. Reporting Quantitation Limits (RQL), typically at or above the Practical Quantitation Limit (PQL) of the analytical method. 6. Method numbers typically denote USEPA procedures. Less than (" $<$ ") values reflect nominal quantitation limits adjusted for any required dilutions. 7. Data Qualifiers are 1 = analyte potentially present between the PQL and the NDL. B = Analyte detected in associated method blank(s). S1 = MS and/or MSD recovery exceed advisory limits. S2 = Post digestion spike (PDS) recovery exceeds advisory limit. S3 = MS and/or MSD recoveries exceed advisory limits. P = Precision higher than advisory limit. M = Matrix interference.

Client: Environmental Tech Group  
Attn: Ken Dutton

Project ID: Darr Angell #4 / EOT 2075R  
Sample Name: RW-6, 24'-26'

Report#/Lab ID#: 117409  
Sample Matrix: soil

**REPORT OF SURROGATE RECOVERY**

| Surrogate Compound    | Method    | Recovery | Recovery Limit | Data Qualifiers |
|-----------------------|-----------|----------|----------------|-----------------|
| p-Toluidyl            | 8015 mod  | 77.2     | 50-150         | ---             |
| Chlorobenzene d5(Sur) | 8015 mod. | 70.9     | 50 - 150       | ---             |

Data Qualifiers: D = Surrogates diluted and X = Surrogates outside advisory recovery limits.

**Client:** Environmental Tech Group  
**Attn:** Ken Dutton  
**Address:** 2540 W. Maryland  
Hobbs NM 88240  
**Phone:** 505 397-4882 **FAX:** 505 397-4701

**Report# / Lab ID#:** 117410 **Report Date:** 08/17/01  
**Project ID:** Darr Angell #4 / EOT 2075R  
**Sample Name:** RW-6, 30' 32'  
**Sample Matrix:** soil  
**Date Received:** 08/01/2001 **Time:** 11:06  
**Date Sampled:** 07/27/2001 **Time:** 10:15

## REPORT OF ANALYSIS

| Parameter                 | Result | Units | RQL <sup>5</sup> | Blank | Date     | Method <sup>6</sup> | Data Qual <sup>7</sup> | Prec. <sup>2</sup> | Recov. <sup>3</sup> | CCV <sup>4</sup> | LC'S <sup>4</sup> |
|---------------------------|--------|-------|------------------|-------|----------|---------------------|------------------------|--------------------|---------------------|------------------|-------------------|
| TPH by GC (as diesel)     | 17.8   | mg/Kg | 1                | <1    | 08/15/01 | 8015 mod            | ---                    | 3                  | 120.8               | 119.6            | 116.2             |
| TPH by GC (as diesel ext) | ---    | ---   | ---              | ---   | 08/11/01 | 3540                | ---                    | -NA-               | -NA-                | -NA-             | NA-               |
| TPH by GC (as gas-diesel) | <5     | mg/Kg | 5                | <5    | 08/10/01 | 8015 mod.           | ---                    | 6.18               | 85.5                | 89.1             | 86.88             |

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

This analytical report is respectfully submitted by AnalySys, Inc. The enclosed results have been carefully reviewed and, to the best of my knowledge, the analytical results are consistent with AnalySys, Inc.'s Quality Assurance/Quality Control Program. © Copyright 2000, AnalySys, Inc., Austin, TX. All rights reserved. No part of this publication may be reproduced or transmitted in any form or by any means without the express written consent of AnalySys, Inc.

Respectfully Submitted,

*Richard Easter*

Richard Easter

1. Quality assurance data is for the sample batch 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 Laboratory Control Sample (LCS) results are expressed as the percent (%) recovery of analyte from a known standard or matrix. 5. Reporting Quantitation Limits (RQL), typically at or above the Practical Quantitation Limit (PQL) of the analytical method. 6. Method numbers typically denote USEPA procedures. Less than (" $<$ ") values reflect nominal quantitation limits adjusted for any required dilutions. 7. Data Qualifiers are J = analyte potentially present between the PQL and the MDL, B = Analyte detected in associated method blank(s). S1 = MS and/or MSD recovery exceed advisory limits, S2 = Post digestion spike (PDS) recovery exceeds advisory limit, S3 = MS and/or MSD and PDS recoveries exceed advisory limits, P = Precision higher than advisory limit, M = Matrix interference.

Client: Environmental Tech Group  
Attn: Ken Dutton

Project ID: Darr Angell #4 / EOT 2075R  
Sample Name: RW-6, 30'-32'

Report#/Lab ID#: 117-110  
Sample Matrix: Soil

**REPORT OF SURROGATE RECOVERY**

| Surrogate Compound    | Method   | Recovery | Recovery Limit | Data Qualifiers |
|-----------------------|----------|----------|----------------|-----------------|
| p-Terphenyl           | 8015 mod | 70.6     | 50-150         | ---             |
| Chlorobenzene d5(Sur) | 8015 mod | 69.7     | 50 - 150       | ---             |

Data Qualifiers: D = Surrogates diluted and N = Surrogates outside advisory recovery limits.

Client: Environmental Tech Group  
Attn: Ken Patton  
Address: 2540 W. Maryland  
Hobbs NM 88240  
Phone: 505 397 4882 FAX: 505 397-4701

Report#/Lab ID#: 117411 Report Date: 08/17/01  
Project ID: Darr Angell #4 / EOT 2075R  
Sample Name: RW-6, 35'-37'  
Sample Matrix: soil  
Date Received: 08/01/2001 Time: 11:06  
Date Sampled: 07/27/2001 Time: 10:18

## REPORT OF ANALYSIS

| Parameter                 | Result | Units | RQL <sup>5</sup> | Blank | Date     | Method <sup>6</sup> | Data Qual <sup>7</sup> | Prec. <sup>2</sup> | Recov. <sup>3</sup> | CCV <sup>4</sup> | LCS <sup>4</sup> |
|---------------------------|--------|-------|------------------|-------|----------|---------------------|------------------------|--------------------|---------------------|------------------|------------------|
| TPH by GC (as diesel)     | 3.38   | mg/Kg | 1                | <1    | 08/15/01 | 8015 mod            | ---                    | 3                  | 120.8               | 119.6            | 116.2            |
| TPH by GC (as diesel ext) | ---    | ---   | ---              | ---   | 08/11/01 | 3540                | ---                    | -NA-               | -NA-                | -NA-             | -NA-             |
| TPH by GC (as gasoline)   | <5     | mg/Kg | 5                | <5    | 08/10/01 | 8015 mod.           | ---                    | 6.18               | 85.5                | 89.1             | 86.88            |

This analytical report is respectfully submitted by AnalySys, Inc. The enclosed results have been carefully reviewed and, to the best of my knowledge, the analytical results are consistent with AnalySys, Inc.'s Quality Assurance/Quality Control Program. © Copyright 2000, AnalySys, Inc., Austin, TX. All rights reserved. No part of this publication may be reproduced or transmitted in any form or by any means without the express written consent of AnalySys, Inc.

Respectfully Submitted,

*Richard Laster*

Richard Laster

1. Quality assurance data is for the sample batch 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 Laboratory Control Sample (LCS) results are expressed as the percent (%) recovery of analyte from a known standard or matrix. 5. Reporting Quantitation Limits (RQL), typically at or above the Practical Quantitation Limit (PQL) of the analytical method. 6. Method numbers typically denote USEPA procedures. Less than ("<") values reflect nominal quantitation limits adjusted for any required dilutions. 7. Data Qualifiers are J = analyte potentially present between the PQL and the MQL. B = Analyte detected in associated method blank(s). S1 = MS and/or MSD recovery exceed advisory limits. S2 = Post digestion spike (PDS) recovery exceeds advisory limit. S3 = MS and/or MSD and PDS recoveries exceed advisory limits. P = Precision higher than advisory limit. M = Matrix interference.



4221 Freidrich Lane, Suite 190, Austin, TX 78744 &  
2209 N. Padre Island Dr., Corpus Christi, TX 7840408  
(512) 444-5896 • FAX (512) 447-7766



Report#/Lab ID#: 117411  
Sample Matrix: soil

Project ID: Darr Angell #4 / EOT 2075R  
Sample Name: RW-6, 35'-37'

Client: Environmental Tech Group  
Attn: Ken Dutton

REPORT OF SURROGATE RECOVERY

| Surrogate Compound   | Method    | Recovery | Recovery Limit | Data Qualifiers |
|----------------------|-----------|----------|----------------|-----------------|
| p Terphenyl          | 8015 mod  | 86.8     | 50-150         | ---             |
| Chlorobenzene d5(Sm) | 8015 mod. | 73.1     | 50 - 150       | ---             |

Data Qualifiers: D = Surrogates diluted and X = Surrogates outside advisory recovery limits.

Client: Environmental Tech Group  
Attn: Ken Dutton  
Address: 2540 W. Maryland  
Hobbs NM 88240  
Phone: 505 397 1382 FAX: 505 397-4701

Report#/Lab ID#: 117412 Report Date: 08/17/01  
Project ID: Darr Angel #4 / EOT 2075R  
Sample Name: RW-6, 40'-42'  
Sample Matrix: soil  
Date Received: 08/01/2001 Time: 11:06  
Date Sampled: 07/27/2001 Time: 10:20

## REPORT OF ANALYSIS

| Parameter                 | Result | Units | RQL <sup>5</sup> | Blank | Date     | Method <sup>6</sup> | Data Qual <sup>7</sup> | Prec. <sup>2</sup> | Recov. <sup>3</sup> | CCV <sup>4</sup> | LCS <sup>4</sup> |
|---------------------------|--------|-------|------------------|-------|----------|---------------------|------------------------|--------------------|---------------------|------------------|------------------|
| TPH by GC (as diesel)     | 8.51   | mg/Kg | 1                | <1    | 08/15/01 | 8015 mod            | ---                    | 3                  | 120.8               | 119.6            | 116.2            |
| TPH by GC (as diesel ext) | ---    | ---   | ---              | ---   | 08/11/01 | 3540                | ---                    | NA-                | NA-                 | NA-              | NA-              |
| TPH by GC (as gasoline)   | <5     | mg/Kg | 5                | <5    | 08/10/01 | 8015 mod.           | ---                    | 6.18               | 85.5                | 89.1             | 86.88            |

This analytical report is respectfully submitted by AnalySys, Inc. The enclosed results have been fully reviewed and, to the best of my knowledge, the analytical results are consistent with AnalySys, Inc.'s Quality Assurance/Quality Control Program. © Copyright 2000 AnalySys, Inc., Austin, TX. All rights reserved. No part of this publication may be reproduced or transmitted in any form or by any means without the express written consent of AnalySys, Inc.

Respectfully Submitted,

*Richard Laster*

Richard Laster

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Client: Environmental Tech Group  
Attn: Ken Bottom

Project ID: Darr Angell #4 / EOT 2075R  
Sample Name: RW-6, 40'-42'

Report#/Lab ID#: 117412  
Sample Matrix: soil

**REPORT OF SURROGATE RECOVERY**

| Surrogate Compound   | Method    | Recovery | Recovery Limit | Data Qualifiers |
|----------------------|-----------|----------|----------------|-----------------|
| p-Terphenyl          | 8015 mod  | 54.5     | 50-150         | ---             |
| Chlorobenzene d5(Sm) | 8015 mod. | 73       | 50 - 150       | ---             |

Data Qualifiers: D= Surrogates diluted and X= Surrogates outside advisory recovery limits.

Client: Environmental Tech Group  
Attn: Ken Dutton  
Address: 2510 W. Maryland  
Hobbs NM 88240  
Phone: 505 397 1882 FAX: 505 397-4701

Report#/Lab ID#: 117413 Report Date: 08/17/01  
Project ID: Darr Angell #4/EOT 2075R  
Sample Name: RW-6, 45'-47'  
Sample Matrix: soil  
Date Received: 08/01/2001 Time: 11:06  
Date Sampled: 07/27/2001 Time: 10:42

## REPORT OF ANALYSIS

| Parameter                 | Result | Units | RQL <sup>5</sup> | Blank | Date     | Method <sup>6</sup> | Data Qual <sup>7</sup> | Prec. <sup>2</sup> | Recov. <sup>3</sup> | CCV <sup>4</sup> | LCS <sup>4</sup> |
|---------------------------|--------|-------|------------------|-------|----------|---------------------|------------------------|--------------------|---------------------|------------------|------------------|
| TPH by GC (as diesel)     | 14.6   | mg/Kg | 10               | <10   | 08/15/01 | 8015 mod            | ---                    | 3                  | 120.8               | 119.6            | 116.2            |
| TPH by GC (as diesel ext) | ---    | ---   | ---              | ---   | 08/11/01 | 3540                | ---                    | -NA-               | -NA-                | -NA-             | -NA-             |
| TPH by GC (as gasoline)   | <5     | mg/Kg | 5                | <5    | 08/10/01 | 8015 mod.           | ---                    | 6.18               | 85.5                | 89.1             | 86.88            |

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Respectfully Submitted,

*Richard Lasler*

Richard Lasler

1. Quality assurance data is for the sample batch 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 Laboratory Control Sample (LCS) results are expressed as the percent (%) recovery of analyte from a known standard or matrix. 5. Reporting Quantitation Limits (RQL), typically at or above the Practical Quantitation Limit (PQL) of the analytical method. 6. Method numbers typically denote USEPA procedures. Less than ("<") values reflect nominal quantitation limits adjusted for any required dilutions. 7. Data Qualifiers are J = analyte potentially present between the PQL and the MDL, B = Analyte detected in associated method blank(s). S1 = MS and/or MSD recovery exceed advisory limits, S2 = Post digestion spike (PDS) recovery exceeds advisory limit, S3 = MS and/or MSD and PDS recoveries exceed advisory limits, P = Precision higher than advisory limit, M = Matrix interference.

Client: Environmental Tech Group  
Attn: Ken Dutton

Project ID: Darr Angell #4 / EOT 2075R  
Sample Name: RW-6, 45'-47'

Report#/Lab ID#: 117-113  
Sample Matrix: soil

**REPORT OF SURROGATE RECOVERY**

| Surrogate Compound    | Method    | Recovery | Recovery Limit | Data Qualifiers |
|-----------------------|-----------|----------|----------------|-----------------|
| p-Terphenyl           | 8015 mod  | 64.4     | 50-150         | ---             |
| Chlorobenzene d5(Sur) | 8015 mod. | 75.2     | 50 - 150       | ---             |

Data Qualifier: D = Surrogates diluted and N = Surrogates outside advisory recovery limits.

**Client:** Environmental Tech Group  
**Attn:** Ken Dutton  
**Address:** 2510 W. Maryland  
Hobby  
Nm 88240  
**Phone:** 505 397-4882 **FAX:** 505 397-4701

**Report#/Lab ID#:** 117414 **Report Date:** 08/17/01  
**Project ID:** Dart Angell #4 / EOT 2075R  
**Sample Name:** RW-6, 50'-52'  
**Sample Matrix:** soil  
**Date Received:** 08/01/2001 **Time:** 11:06  
**Date Sampled:** 07/27/2001 **Time:** 10:45

## REPORT OF ANALYSIS

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

| Parameter                      | Result | Units | RQL <sup>5</sup> | Blank | Date     | Method <sup>6</sup> | Data Qual <sup>7</sup> | Prec. <sup>2</sup> | Recov. <sup>3</sup> | CCV <sup>4</sup> | ICS <sup>4</sup> |
|--------------------------------|--------|-------|------------------|-------|----------|---------------------|------------------------|--------------------|---------------------|------------------|------------------|
| TPH by GC (as diesel)          | 566    | mg/Kg | 10               | <10   | 08/15/01 | 8015 mod            | ---                    | 3                  | 120.8               | 119.6            | 116.2            |
| TPH by GC (as diesel ext)      | ---    | ---   | ---              | ---   | 08/11/01 | 3540                | ---                    | -NA-               | -NA-                | -NA-             | -NA-             |
| TPH by GC (as gasoline)        | 28.2   | mg/Kg | 5                | <5    | 08/10/01 | 8015 mod.           | ---                    | 6.18               | 85.5                | 89.1             | 86.88            |
| Volatile organics: 8260b/8260b | ---    | ---   | ---              | ---   | 08/09/01 | 8260b               | ---                    | ---                | ---                 | ---              | ---              |
| Benzene                        | <20    | µg/Kg | 20               | <20   | 08/09/01 | 8260b               | ---                    | 1.4                | 80.8                | 89.8             | 82               |
| Ethylbenzene                   | <20    | µg/Kg | 20               | <20   | 08/09/01 | 8260b               | ---                    | 8.5                | 102                 | 96.8             | 102              |
| m,p-Xylenes                    | <20    | µg/Kg | 20               | <20   | 08/09/01 | 8260b               | ---                    | 9                  | 109.9               | 105.1            | 109.4            |
| o-Xylene                       | <20    | µg/Kg | 20               | <20   | 08/09/01 | 8260b               | ---                    | 8.6                | 104.7               | 97.9             | 104.4            |
| Toluene                        | <20    | µg/Kg | 20               | <20   | 08/09/01 | 8260b               | ---                    | 2.2                | 102.5               | 101.8            | 101.6            |

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Respectfully Submitted,

*Richard Laster*

Richard Laster

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Client: Environmental Tech Group  
 Account: Ken Patton

Project ID: Durr Angell #4 / EOT2075R  
 Sample Name: RW-6, 50'-52'

Report#/Lab ID#: 117-114  
 Sample Matrix: soil

**REPORT OF SURROGATE RECOVERY**

| Surrogate Compound    | Method    | Recovery     | Recovery Limit | Data Qualifiers |
|-----------------------|-----------|--------------|----------------|-----------------|
| p-Terphenyl           | 8015 mod  | none/diluted | diluted @ 1X   | D               |
| Chlorobenzene d5(Sur) | 8015 mod. | 77.3         | 50 - 150       | ---             |
| 1,2-Dichloroethane d1 | 8260b     | 77.3         | 65-115         | ---             |
| Toluene d8            | 8260b     | 85.7         | 50-120         | ---             |

Data Qualifiers: D = Surrogates diluted and X = Surrogates outside advisory recovery limits.

## Exceptions Report:

Report #/Lab ID#: 117414 Matrix: soil  
Client: Environmental Tech Group  
Project ID: Fair Ang II #4 / EOT 2075R  
Sample Name: RW 6, 50' 5.2'

Attn: Ken Dutton

### Sample Temperature/Condition <=6°C

The typical sample temperature criteria (except for metals by ICP, GFAA and AA and a very few other tests) is <= 6°C. Possible exceptions include samples submitted to laboratory within such a short time after sampling that cooling measures used in the field and during transport had insufficient time to achieve desired temperatures in the samples (see sample collection and sample receipt times) and samples where the temperature could not be measured due to sample submission in a manner precluding temperature measurement without impacting sample integrity (ex. in a bottle with no cooler).

### Sample Bottles & Preservation

- ☒ Sample received in appropriate container(s) and appear to be appropriately preserved.
- ☐ Sample received in appropriate container(s). State of sample preservation unknown.
- ☐ Sample received in inappropriate container(s) and/or with unknown state of preservation.

### J Flag Discussion

A J flag data qualifier indicates as required under TNRCC-TRRP reporting requirements) that the raw calculated analyte concentration in the sample (uncorrected for background levels/blanks and other potential sources of sampling and analytical contamination), though less than the Reported Quantitation Limit (RQL) is greater than the Detection Limit. Because the reported result is below the quantitation limit for this project/sample (or test procedure), GC/MS organics results may or MAY NOT have been verified as to the presence and relative ratio of target ions (eg. the material causing the J flag "hit" in such situations may be nothing more than background ion-fragment noise.)

### Comments pertaining to Data Qualifiers and QC data:

| Parameter      | Qualif | Comment                                                                                                                                                                                                       |
|----------------|--------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| p-Toluidine, I | D      | Sample diluted to assure quantitation within calibration range or due to Matrix interferences or other matrix effects (eg. high non target organic levels). Surrogate recoveries not accurately quantifiable. |
| p-Toluidine, F | D      |                                                                                                                                                                                                               |

Notes:



**Client:** Environmental Tech Group  
**Attn:** Ken Dutton  
**Address:** 2540 W. Maryland  
 Hobbs Nm 88240  
**Phone:** 505 397-4882 **FAX:** 505 397-4701

**Report#/Lab ID#:** 117415 **Report Date:** 08/17/01  
**Project ID:** Darr Angell #4 / EOT 2075R  
**Sample Name:** RW-6, 55'-57'  
**Sample Matrix:** soil  
**Date Received:** 08/01/2001 **Time:** 11:06  
**Date Sampled:** 07/27/2001 **Time:** 10:48

**REPORT OF ANALYSIS**

| Parameter                   | Result | Units | RQL <sup>5</sup> | Blank | Date     | Method <sup>6</sup> | Data Qual <sup>7</sup> | Prec. <sup>2</sup> | Recov. <sup>3</sup> | CCV <sup>4</sup> | LCS <sup>4</sup> |
|-----------------------------|--------|-------|------------------|-------|----------|---------------------|------------------------|--------------------|---------------------|------------------|------------------|
| FP11 by GC (gas diesel)     | 1190   | mg/Kg | 100              | <100  | 08/15/01 | 8015 mod            | ---                    | 3                  | 120.8               | 119.6            | 116.2            |
| FP11 by GC (gas diesel ext) | ---    | ---   | ---              | ---   | 08/11/01 | 3540                | ---                    | -NA-               | -NA-                | -NA-             | -NA-             |
| FP11 by GC (gas gasoline)   | 70.6   | mg/Kg | 5                | <5    | 08/10/01 | 8015 mod.           | ---                    | 6.18               | 85.5                | 89.1             | 86.88            |

This analytical report is respectfully submitted by AnalySys, Inc. The enclosed results have been carefully reviewed and, to the best of my knowledge, the analytical results are consistent with AnalySys, Inc.'s Quality Assurance/Quality Control Program. © Copyright 2000, AnalySys, Inc., Austin, TX. All rights reserved. No part of this publication may be reproduced or transmitted in any form or by any means without the express written consent of AnalySys, Inc.

Respectfully Submitted,

*Richard Laster*

Richard Laster

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

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Client: Environmental Tech Group  
Attn: Ken Button

Project ID: Dair Angell #4 / EOT 2075R  
Sample Name: RW-6, 55'-57'

Report#/Lab ID#: 117415  
Sample Matrix: soil

**REPORT OF SURROGATE RECOVERY**

| Surrogate Compound    | Method    | Recovery     | Recovery Limit | Data Qualifiers |
|-----------------------|-----------|--------------|----------------|-----------------|
| p-Toluenyl            | 8015 mod  | none/diluted | diluted @ 1X   | D               |
| Chlorobenzene d5(Sur) | 8015 mod. | 68.2         | 50 - 150       | ---             |

Data Qualifiers: D = Surrogates diluted and X = Surrogates outside advisory recovery limits.

# Exceptions Report

|                                       |              |                  |
|---------------------------------------|--------------|------------------|
| Report #/Lab ID#: 117415              | Matrix: soil | Attn: Ken Dutton |
| Client: Environmental Tech Group      |              |                  |
| Project ID: Dair Angell 14/ECOT 2075R |              |                  |
| Sample Name: RW 6, 55' 5"             |              |                  |

## Sample Temperature/Condition <= 6° C

The typical sample temperature criteria (except for metals by ICP, GFAA and AA and a very few other tests) is <= 6° C. Possible exceptions include samples submitted to laboratory within such a short time after sampling that cooling measures used in the field and during transport had insufficient time to achieve desired temperatures in the samples (e.g. sample collection and sample receipt times) and samples where the temperature could not be measured due to sample submission in a manner precluding temperature measurement without impacting sample integrity (ex. in a bottle with no cooler).

## Sample Bottles & Preservation

- ☒ Sample received in appropriate container(s) and appear to be appropriately preserved.
- ☐ Sample received in appropriate container(s). State of sample preservation unknown.
- ☐ Sample received in inappropriate container(s) and/or with unknown state of preservation.

## J Flag Discussion

A J flag data qualifier indicates gas required under TNRCC-TRRP reporting requirements) that the raw calculated analyte concentration in the sample (uncorrected for background level blanks and other potential sources of sampling and analytical contamination), though less than the Reported Quantitation Limit (RQL) is greater than the detection limit. Because the reported result is below the quantitation limit for this project/sample (or test procedure), GC/MS organics results may or MAY NOT have been verified as to the presence and relative ratio of target ions (eg. the material causing the J flag "hit" in such situations may be nothing more than background ion fragment noise.)

## Comments pertaining to Data Qualifiers and QC data:

| Parameter  | Qualif | Comment                                                                                                                                                                                                       |
|------------|--------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| p Tox band | D      | Sample diluted to assure quantitation within calibration range or due to Matrix interferences or other matrix effects (eg. high non target organic levels). Surrogate recoveries not accurately quantifiable. |
| p Tox band | D      |                                                                                                                                                                                                               |

## Notes:

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Client: Environmental Tech Group  
Attn: Ken Dutton  
Address: 2510 W. Maryland  
Hobbs NM 88240  
Phone: 505 397-4882 FAX: 505 397-4701

Report#/Lab ID#: 117416 Report Date: 08/17/01  
Project ID: Darr Angell #4 / EOT 2075R  
Sample Name: RW-6, 60'-62'  
Sample Matrix: soil  
Date Received: 08/01/2001 Time: 11:06  
Date Sampled: 07/27/2001 Time: 10:51

## REPORT OF ANALYSIS

| Parameter                 | Result | Units | RQL <sup>5</sup> | Blank | Date     | Method <sup>6</sup> | Data Qual <sup>7</sup> | Prec. <sup>2</sup> | Recov. <sup>3</sup> | CCV <sup>4</sup> | LCS <sup>4</sup> |
|---------------------------|--------|-------|------------------|-------|----------|---------------------|------------------------|--------------------|---------------------|------------------|------------------|
| TPH by GC (as diesel)     | 660    | mg/Kg | 100              | <100  | 08/15/01 | 8015 mod            | ---                    | 3                  | 120.8               | 119.6            | 116.2            |
| TPH by GC (as diesel ext) | ---    | ---   | ---              | ---   | 08/11/01 | 3540                | ---                    | -NA-               | -NA-                | -NA-             | -NA-             |
| TPH by GC (as gasoline)   | 31.8   | mg/Kg | 5                | <5    | 08/10/01 | 8015 mod.           | ---                    | 6.18               | 85.5                | 89.1             | 86.88            |

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

This analytical report is respectfully submitted by AnalySys, Inc. The enclosed results have been carefully reviewed and, to the best of my knowledge, the analytical results are consistent with AnalySys, Inc.'s Quality Assurance/Quality Control Program. © Copyright 2000, AnalySys, Inc. All rights reserved. No part of this publication may be reproduced or transmitted in any form or by any means without the express written consent of AnalySys, Inc.

Respectfully Submitted,

*Richard Laster*

Richard Laster

1. Quality assurance data is for the sample batch 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 Laboratory Control Sample (LCS) results are expressed as the percent (%) recovery of analyte from a known standard or matrix. 5. Reporting Quantitation Limits (RQL), typically at or above the Practical Quantitation Limit (PQL) of the analytical method. 6. Method numbers typically denote USEPA procedures. Less than (" $<$ ") values reflect nominal quantitation limits adjusted for any required dilutions. 7. Data Qualifiers are J = analyte potentially present between the PQL and the MDL, B = Analyte detected in associated method blank(s). S1 = MS and/or MSD recovery exceed advisory limits. S2 = Post digestion spike (PDS) recovery exceeds advisory limit. S3 = MS and/or MSD and PDS recoveries exceed advisory limits. P = Precision higher than advisory limit. M = Matrix interference.

Client: Environmental Tech Group  
Attn: Ken Dutton

Project ID: Darr Angell #4 / EOT 2075R  
Sample Name: RW-6, 60'-62'

Report#/Lab ID#: 117416  
Sample Matrix: soil

**REPORT OF SURROGATE RECOVERY**

| Surrogate Compound    | Method    | Recovery     | Recovery Limit | Data Qualifiers |
|-----------------------|-----------|--------------|----------------|-----------------|
| p-Terphenyl           | 8015 mod  | none/diluted | diluted @ 1X   | D               |
| Chlorobenzene d5(Sur) | 8015 mod. | 64.6         | 50 - 150       | ---             |

Data Qualifiers: D = Surrogates diluted and X = Surrogates outside advisory recovery limits.

## Exceptions Report:

Report #/Lab ID#: 11/116 Matrix: soil  
Client: Environmental Tech Group  
Project ID: Dan Angell +1/ECOF 2075R  
Sample Name: RW 6, 60' 62"

Attn: Ken Dutton

### Sample Temperature/Condition $\leq 6^{\circ}\text{C}$

The typical sample temperature criteria (except for metals by ICP, GFAA and AA and a very few other tests) is  $\leq 6^{\circ}\text{C}$ . Possible exceptions include samples submitted to laboratory within such a short time after sampling that cooling measures used in the field and during transport had insufficient time to achieve desired temperatures in the samples (see sample collection and sample receipt times) and samples where the temperature could not be measured due to sample submission in a manner precluding temperature measurement without impacting sample integrity (ex. in a bottle with no cooler).

### Sample Bottles & Preservation

- ☒ Sample received in appropriate container(s) and appear to be appropriately preserved.
- ☐ Sample received in appropriate container(s). State of sample preservation unknown.
- ☐ Sample received in inappropriate container(s) and/or with unknown state of preservation.

### J Flag Discussion

A J flag data qualifier indicates (as required under TNRCC-TRRP reporting requirements) that the raw calculated analyte concentration in the sample (unconnected for background level standards and other potential sources of sampling and analytical contamination), though less than the Reported Quantitation Limit (RQL), is greater than the Detection Limit. Because the reported result is below the quantitation limit for this project/sample (or test procedure), GC/MS organics results may or MAY NOT have been verified as to the presence and relative ratio of target ions (eg. the material causing the J flag "hit" in such situations may be nothing more than background ion-fragment noise.)

### Comments pertaining to Data Qualifiers and QC data:

| Parameter  | Qualif | Comment                                                                                                                                                                                                       |
|------------|--------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| p Tophi n1 | D      | Sample diluted to assure quantitation within calibration range or due to Matrix interferences or other matrix effects (eg. high non-target organic levels). Surrogate recoveries not accurately quantifiable. |
| p Tophi n1 | D      |                                                                                                                                                                                                               |

Notes:

Client: Environmental Tech Group  
Attn: Ken Dutton  
Address: 2510 W. Maryland  
Hobbs NM 88240  
Phone: 505 397-4882 FAX: 505 397-4701

Report#/Lab ID#: 117417 Report Date: 08/17/01  
Project ID: Darr Angell #4 / EOT 2075R  
Sample Name: RW-6, 65'-67'  
Sample Matrix: soil  
Date Received: 08/01/2001 Time: 11:06  
Date Sampled: 07/27/2001 Time: 10:57

## REPORT OF ANALYSES

| Parameter                 | Result | Units | RQL <sup>5</sup> | Blank | Date     | Method <sup>6</sup> | Data Qual <sup>7</sup> | Prec. <sup>2</sup> | Recov. <sup>3</sup> | CCV <sup>4</sup> | ICS <sup>4</sup> |
|---------------------------|--------|-------|------------------|-------|----------|---------------------|------------------------|--------------------|---------------------|------------------|------------------|
| TPH by GC (as diesel)     | 386    | mg/Kg | 100              | <100  | 08/15/01 | 8015 mod            | ---                    | 3                  | 120.8               | 119.6            | 116.2            |
| TPH by GC (as diesel ext) | ---    | ---   | ---              | ---   | 08/11/01 | 3540                | ---                    | -NA-               | -NA-                | -NA-             | -NA-             |
| TPH by GC (as gasoline)   | 20.3   | mg/Kg | 5                | <5    | 08/10/01 | 8015 mod.           | ---                    | 6.18               | 85.5                | 89.1             | 86.88            |

This analytical report is respectfully submitted by AnalSys, Inc. The enclosed results have been carefully reviewed and, to the best of my knowledge, the analytical results are consistent with AnalSys, Inc.'s Quality Assurance/Quality Control Program. © Copyright 2000, AnalSys, Inc., Austin, TX. All rights reserved. No part of this publication may be reproduced or transmitted in any form or by any means without the express written consent of AnalSys, Inc.

Respectfully Submitted,

*Richard Laster*

Richard Laster

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

1. Quality assurance data is for the sample batch 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 Laboratory Control Sample (LCS) results are expressed as the percent (%) recovery of analyte from a known standard or matrix. 5. Reporting Quantitation Limits (RQL), typically at or above the Practical Quantitation Limit (PQL) of the analytical method. 6. Method numbers typically denote USEPA procedures. Less than ("<") values reflect nominal quantitation limits adjusted for any required dilutions. 7. Data Qualifiers are J = analyte potentially present between the PQL and the MDL, B = Analyte detected in associated method blank(s), S1 = MS and/or MSD recovery exceed advisory limits, S2 = Post digestion spike (PDS) recovery exceeds advisory limit, S3 = MS and/or MSD and PDS recoveries exceed advisory limits, P = Precision higher than advisory limit, M = Matrix interference.

Client: Environmental Tech Group  
Attn: Ken Patton

Project ID: Dan Angell #4 / EOT 2075R  
Sample Name: RW-6, 65'-67'

Report#/Lab ID#: 117417  
Sample Matrix: soil

**REPORT OF SURROGATE RECOVERY**

| Surrogate Compound     | Method    | Recovery     | Recovery Limit | Data Qualifiers |
|------------------------|-----------|--------------|----------------|-----------------|
| p Terphenyl            | 8015 mod  | none/diluted | diluted @ 1X   | D               |
| Chlorobenzene (d5) Sur | 8015 mod. | 64.2         | 50 - 150       | ---             |

Data Qualifiers: D = Surrogates diluted and N= Surrogates outside advisory recovery limits.



# Exceptions Report

Report #/Lab ID#: 117417 Matrix: soil  
 Client: Environmental Tech Group  
 Project ID: Dan Angell 14/EGT 2075R  
 Sample Name: RW 6, 65' to 7'

Attn: Ken Dutton

## Sample Temperature/Condition <= 6°C

The typical sample temperature criteria (except for metals by ICP, GFAA and AA and a very few other tests) is <= 6°C. Possible exceptions include samples submitted to laboratory within such a short time after sampling that cooling measures used in the field and during transport had insufficient time to achieve desired temperatures in the samples (see sample collection and sample receipt times) and samples where the temperature could not be measured due to sample submission in a manner precluding temperature measurement without impacting sample integrity (ex. in a bottle with no cooler).

## Sample Bottles & Preservation

- ☒ Sample received in appropriate container(s) and appear to be appropriately preserved.
- ☐ Sample received in inappropriate container(s). State of sample preservation unknown.
- ☐ Sample received in inappropriate container(s) and/or with unknown state of preservation.

## J flag Discussion

A J flag data qualifier indicates (as required under TNRC-TRRP reporting requirements) that the raw calculated analyte concentration in the sample (uncorrected for background levels/blanks and other potential sources of sampling and analytical contamination), though less than the Reported Quantitation Limit (RQL) is greater than the Detection Limit. Because the reported result is below the quantitation limit for this project/sample (or test procedure), GC/MS organics results may or MAY NOT have been verified as to the presence and relative ratio of target ions (eg. the material causing the J flag "hit" in such situations may be nothing more than background ion-fragment noise.)

## Comments pertaining to Data Qualifiers and QC data:

| Parameter  | Qualif | Comment                                                                                                                                                                                                       |
|------------|--------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| p-Toluenyl | D      | Sample diluted to assure quantitation within calibration range or due to Matrix interferences or other matrix effects (eg. high non target organic levels). Surrogate recoveries not accurately quantifiable. |
| p-Toluenyl | D      |                                                                                                                                                                                                               |

## Notes:



COC 42 2003

# CHAIN-OF-CUSTODY

Send Reports To:

Company Name ETGI  
Address 2540 W MARLAND State NM Zip 88240  
ATTN: KEN DUTTON  
Phone (505) 397-4182 Fax (505) 397-4701

Bill to (if different):

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



4221 Fieldrich Lane, Suite 190, Austin, TX 78744  
Phone: (512) 444-5896  
Fax: (512) 447-4766

Rush Status (must be confirmed with lab mgr.):  
Project Name/PO#: Darr Angele # 4 Sampler: Simon Car  
EOI 2075C

| Client Sample No.          |  |  |  | Date Sampled |  |  |  | Time Sampled |  |  |  | No. of Containers |  |  |  | Water/Waste |  |  |  | Lab I.D. # (Lab only) |  |  |  | Comments |  |  |  |
|----------------------------|--|--|--|--------------|--|--|--|--------------|--|--|--|-------------------|--|--|--|-------------|--|--|--|-----------------------|--|--|--|----------|--|--|--|
| Description/Identification |  |  |  | Sampled      |  |  |  | Sampled      |  |  |  | Containers        |  |  |  | Water/Waste |  |  |  | Lab I.D. # (Lab only) |  |  |  | Comments |  |  |  |
| MW 4 50'-52'               |  |  |  | 7-16-01      |  |  |  | 1150         |  |  |  | 1                 |  |  |  |             |  |  |  | 117344                |  |  |  |          |  |  |  |
| MW 4 55'-57'               |  |  |  |              |  |  |  | 1200         |  |  |  |                   |  |  |  |             |  |  |  | 117345                |  |  |  |          |  |  |  |
| MW 4 60'-62'               |  |  |  |              |  |  |  | 1210         |  |  |  |                   |  |  |  |             |  |  |  | 117346                |  |  |  |          |  |  |  |
| MW 4 65'-67'               |  |  |  |              |  |  |  | 1215         |  |  |  |                   |  |  |  |             |  |  |  | 117347                |  |  |  |          |  |  |  |
| RW 5 0'-2'                 |  |  |  | 7-16-01      |  |  |  | 1410         |  |  |  |                   |  |  |  |             |  |  |  | 117348                |  |  |  |          |  |  |  |
| RW 5 5'-7'                 |  |  |  |              |  |  |  | 1420         |  |  |  |                   |  |  |  |             |  |  |  | 117349                |  |  |  |          |  |  |  |
| RW 5 10'-12'               |  |  |  |              |  |  |  | 1430         |  |  |  |                   |  |  |  |             |  |  |  | 117350                |  |  |  |          |  |  |  |
| RW 5 15'-17'               |  |  |  |              |  |  |  | 1437         |  |  |  |                   |  |  |  |             |  |  |  | 117351                |  |  |  |          |  |  |  |
| RW 5 20'-22'               |  |  |  |              |  |  |  | 1445         |  |  |  |                   |  |  |  |             |  |  |  | 117352                |  |  |  |          |  |  |  |
| RW 5 25'-27'               |  |  |  |              |  |  |  | 1455         |  |  |  |                   |  |  |  |             |  |  |  | 117353                |  |  |  |          |  |  |  |

Analyses Requested (1)

Please attach explanatory information as required

TOP SOIL PRO/GRO

(If labels specifically requested other wise 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 limits (MDL/POI). 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 ASI's HSL list at ASI's option. Specific compound lists must be supplied for all GC procedures.

Temp. 1.0°C

| Sample Relinquished By |             |         |      | Sample Received By |             |         |       |
|------------------------|-------------|---------|------|--------------------|-------------|---------|-------|
| Name                   | Affiliation | Date    | Time | Name               | Affiliation | Date    | Time  |
| Simon Car              |             | 7-31-01 | 0800 | E. H. H.           | ASI         | 7-31-01 | 14:45 |

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



**Project**  
**SCOTT ENERGY CORP.**  
805 East Business 20  
Midland, TX 79702  
Tel (915) 687-3400  
Fax (915) 582-2781

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

ANALYSIS REQUEST  
(Circle or Specify Method No.)

ANALYSIS REQUEST  
(Circle or Specify Method No.)

(only)

Sz Hg 601087470

Pz Sz Hg

|                               |   |
|-------------------------------|---|
| BTEX E0218:5030               |   |
| TPH 418.1/TX 1005             |   |
| TPH E015M GRC-DRO             | X |
| PAH B270C I8100 New Mexico    |   |
| Total Metals Ag As Ba Cd Cr F |   |
| TCLP Metals Ag As Ba Cd Cr F  |   |
| TCLP Volatiles                |   |
| TCLP Semi Volatiles           |   |
| Volatiles B260B               |   |
| Semi Volatiles B270C          |   |
| TDS 150.1                     |   |
| Calciums/Aramids 275.4/EZE 2  |   |

REMARKS: **★** BTEX on RW-6, 50'-52'

# Summary Report

Ken Dutton  
ETGI  
2540 W. Marland  
Hobbs, NM

Report Date: August 13, 2001

Order ID Number: A01080601

Project Number: EOT 2075C  
Project Name: Darr Angell #4  
Project Location: N/A

| Sample | Description | Matrix | Date Taken | Time Taken | Date Received |
|--------|-------------|--------|------------|------------|---------------|
| 176351 | MW-5 0-2'   | Soil   | 7/30/01    | 9:55       | 8/3/01        |
| 176352 | MW-5 5-7'   | Soil   | 7/30/01    | 10:00      | 8/3/01        |
| 176353 | MW-5 10-12' | Soil   | 7/30/01    | 10:10      | 8/3/01        |
| 176354 | MW-5 15-17' | Soil   | 7/30/01    | 10:28      | 8/3/01        |
| 176355 | MW-5 20-22' | Soil   | 7/30/01    | 10:51      | 8/3/01        |
| 176356 | MW-5 25-27' | Soil   | 7/30/01    | 10:58      | 8/3/01        |
| 176357 | MW-5 30-32' | Soil   | 7/30/01    | 11:11      | 8/3/01        |
| 176358 | MW-5 35-37' | Soil   | 7/30/01    | 12:02      | 8/3/01        |
| 176359 | MW-5 40-42' | Soil   | 7/30/01    | 12:11      | 8/3/01        |
| 176360 | MW-5 45-47' | Soil   | 7/30/01    | 12:22      | 8/3/01        |
| 176361 | MW-5 50-52' | Soil   | 7/30/01    | 12:28      | 8/3/01        |
| 176362 | MW-5 55-57' | Soil   | 7/30/01    | 12:30      | 8/3/01        |
| 176363 | MW-5 60-62' | Soil   | 7/30/01    | 12:32      | 8/3/01        |
| 176364 | MW-5 65-67' | Soil   | 7/30/01    | 12:35      | 8/3/01        |
| 176365 | MW-6 0-2'   | Soil   | 7/31/01    | 8:43       | 8/3/01        |
| 176366 | MW-6 5-7'   | Soil   | 7/31/01    | 8:52       | 8/3/01        |
| 176367 | MW-6 10-12' | Soil   | 7/31/01    | 8:59       | 8/3/01        |
| 176368 | MW-6 15-17' | Soil   | 7/31/01    | 9:07       | 8/3/01        |
| 176369 | MW-6 20-22' | Soil   | 7/31/01    | 9:10       | 8/3/01        |
| 176370 | MW-6 25-27' | Soil   | 7/31/01    | 9:13       | 8/3/01        |
| 176371 | MW-6 30-32' | Soil   | 7/31/01    | 9:18       | 8/3/01        |
| 176372 | MW-6 35-37' | Soil   | 7/31/01    | 9:50       | 8/3/01        |
| 176373 | MW-6 40-42' | Soil   | 7/31/01    | 10:00      | 8/3/01        |
| 176374 | MW-6 45-47' | Soil   | 7/31/01    | 10:10      | 8/3/01        |
| 176375 | MW-6 50-52' | Soil   | 7/31/01    | 10:20      | 8/3/01        |
| 176376 | MW-6 55-57' | Soil   | 7/31/01    | 10:31      | 8/3/01        |
| 176377 | MW-6 60-62' | Soil   | 7/31/01    | 10:40      | 8/3/01        |
| 176378 | MW-6 65-67' | Soil   | 7/31/01    | 10:52      | 8/3/01        |
| 176379 | MW-7 0-2'   | Soil   | 7/31/01    | 12:00      | 8/3/01        |
| 176380 | MW-7 5-7'   | Soil   | 7/31/01    | 12:10      | 8/3/01        |
| 176381 | MW-7 10-12' | Soil   | 7/31/01    | 12:21      | 8/3/01        |
| 176382 | MW-7 15-17' | Soil   | 7/31/01    | 12:35      | 8/3/01        |
| 176383 | MW-7 20-22' | Soil   | 7/31/01    | 12:43      | 8/3/01        |
| 176384 | MW-7 25-27' | Soil   | 7/31/01    | 12:52      | 8/3/01        |
| 176385 | MW-7 30-32' | Soil   | 7/31/01    | 13:00      | 8/3/01        |
| 176386 | MW-7 35-37' | Soil   | 7/31/01    | 13:05      | 8/3/01        |
| 176387 | MW-7 40-42' | Soil   | 7/31/01    | 13:15      | 8/3/01        |
| 176388 | MW-7 45-47' | Soil   | 7/31/01    | 13:21      | 8/3/01        |
| 176389 | MW-7 50-52' | Soil   | 7/31/01    | 13:30      | 8/3/01        |
| 176390 | MW-7 55-57' | Soil   | 7/31/01    | 13:42      | 8/3/01        |

Continued ...

Report Date: August 13, 2001 Order Number: A01080601

Page Number: 2 of 3

EOT 2075C

Darr Angell #4

N/A

| Sample | Description | Matrix | Date Taken | Time Taken | Date Received |
|--------|-------------|--------|------------|------------|---------------|
| 176391 | MW-7 60-62' | Soil   | 7/31/01    | 13:55      | 8/3/01        |
| 176392 | MW-8 0-2'   | Soil   | 8/1/01     | 9:15       | 8/3/01        |
| 176393 | MW-8 5-7'   | Soil   | 8/1/01     | 9:21       | 8/3/01        |
| 176394 | MW-8 10-12' | Soil   | 8/1/01     | 9:27       | 8/3/01        |
| 176395 | MW-8 15-17' | Soil   | 8/1/01     | 9:35       | 8/3/01        |
| 176396 | MW-8 20-22' | Soil   | 8/1/01     | 9:42       | 8/3/01        |
| 176397 | MW-8 25-27' | Soil   | 8/1/01     | 11:30      | 8/3/01        |
| 176398 | MW-8 30-32' | Soil   | 8/1/01     | 12:50      | 8/3/01        |
| 176399 | MW-8 35-37' | Soil   | 8/1/01     | 12:55      | 8/3/01        |
| 176400 | MW-8 40-42' | Soil   | 8/1/01     | 13:00      | 8/3/01        |
| 176401 | MW-8 45-47' | Soil   | 8/1/01     | 13:07      | 8/3/01        |
| 176402 | MW-8 50-52' | Soil   | 8/1/01     | 13:12      | 8/3/01        |
| 176403 | MW-8 55-57' | Soil   | 8/1/01     | 13:20      | 8/3/01        |
| 176404 | MW-8 60-62' | Soil   | 8/1/01     | 13:30      | 8/3/01        |
| 176405 | MW-8 65-67' | Soil   | 8/1/01     | 13:40      | 8/3/01        |

This report consists of a total of 3 page(s) and is intended only as a summary of results for the sample(s) listed above.

| Sample - Field Code  | TPH DRO<br>DRO<br>(ppm) | TPH GRO<br>GRO<br>(ppm) |
|----------------------|-------------------------|-------------------------|
| 176351 - MW-5 0-2'   | <50                     | <1                      |
| 176352 - MW-5 5-7'   | <50                     | <1                      |
| 176353 - MW-5 10-12' | <50                     | <1                      |
| 176354 - MW-5 15-17' | <50                     | <1                      |
| 176355 - MW-5 20-22' | <50                     | <1                      |
| 176356 - MW-5 25-27' | <50                     | <1                      |
| 176357 - MW-5 30-32' | <50                     | <1                      |
| 176358 - MW-5 35-37' | <50                     | <1                      |
| 176359 - MW-5 40-42' | <50                     | <1                      |
| 176360 - MW-5 45-47' | <50                     | <1                      |
| 176361 - MW-5 50-52' | <50                     | 1.53                    |
| 176362 - MW-5 55-57' | <50                     | <1                      |
| 176363 - MW-5 60-62' | <50                     | <1                      |
| 176364 - MW-5 65-67' | <50                     | <1                      |
| 176365 - MW-6 0-2'   | <50                     | <1                      |
| 176366 - MW-6 5-7'   | <50                     | <1                      |
| 176367 - MW-6 10-12' | <50                     | <1                      |
| 176368 - MW-6 15-17' | <50                     | <1                      |
| 176369 - MW-6 20-22' | <50                     | <1                      |
| 176370 - MW-6 25-27' | <50                     | <1                      |
| 176371 - MW-6 30-32' | <50                     | <1                      |
| 176372 - MW-6 35-37' | <50                     | <1                      |
| 176373 - MW-6 40-42' | <50                     | <1                      |
| 176374 - MW-6 45-47' | <50                     | <1                      |
| 176375 - MW-6 50-52' | <50                     | <1                      |
| 176376 - MW-6 55-57' | <50                     | <1                      |
| 176377 - MW-6 60-62' | 162                     | <1                      |
| 176378 - MW-6 65-67' | 73.3                    | 1.23                    |
| 176379 - MW-7 0-2'   | <50                     | <1                      |
| 176380 - MW-7 5-7'   | <50                     | <1                      |
| 176381 - MW-7 10-12' | <50                     | <1                      |
| 176382 - MW-7 15-17' | <50                     | <1                      |
| 176383 - MW-7 20-22' | <50                     | <1                      |
| 176384 - MW-7 25-27' | <50                     | <1                      |
| 176385 - MW-7 30-32' | <50                     | <1                      |

Continued...

Report Date: August 13, 2001 Order Number: A01080601

EOT 2075C

Darr Angell #4

Page Number: 3 of 3

N/A

Continued ...

| Sample - Field Code  | TPH DRO<br>DRO<br>(ppm) | TPH GRO<br>GRO<br>(ppm) |
|----------------------|-------------------------|-------------------------|
| 176386 - MW-7 35-37' | <50                     | <1                      |
| 176387 - MW-7 40-42' | <50                     | <1                      |
| 176388 - MW-7 45-47' | <50                     | <1                      |
| 176389 - MW-7 50-52' | <50                     | <1                      |
| 176390 - MW-7 55-57' | 276                     | <1                      |
| 176391 - MW-7 60-62' | <50                     | <1                      |
| 176392 - MW-8 0-2'   | <50                     | <1                      |
| 176393 - MW-8 5-7'   | <50                     | <1                      |
| 176394 - MW-8 10-12' | <50                     | <1                      |
| 176395 - MW-8 15-17' | <50                     | <1                      |
| 176396 - MW-8 20-22' | <50                     | <1                      |
| 176397 - MW-8 25-27' | 568                     | <1                      |
| 176398 - MW-8 30-32' | 369                     | <1                      |
| 176399 - MW-8 35-37' | 333                     | <1                      |
| 176400 - MW-8 40-42' | 124                     | <1                      |
| 176401 - MW-8 45-47' | <50                     | <1                      |
| 176402 - MW-8 50-52' | <50                     | <1                      |
| 176403 - MW-8 55-57' | <50                     | <1                      |
| 176404 - MW-8 60-62' | <50                     | <1                      |
| 176405 - MW-8 65-67' | <50                     | <1                      |

# TRACE ANALYSIS, INC.

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## Analytical and Quality Control Report

Ken Dutton  
 ETGI  
 2540 W. Marland  
 Hobbs, NM

Report Date: August 13, 2001

Order ID Number: A01080601

Project Number: EOT 2075C  
 Project Name: Darr Angell #4  
 Project Location: N/A

Enclosed are the Analytical Results and Quality Control Data Reports for the following samples submitted to Trace-Analysis, Inc.

| Sample | Description | Matrix | Date Taken | Time Taken | Date Received |
|--------|-------------|--------|------------|------------|---------------|
| 176351 | MW-5 0-2'   | Soil   | 7/30/01    | 9:55       | 8/3/01        |
| 176352 | MW-5 5-7'   | Soil   | 7/30/01    | 10:00      | 8/3/01        |
| 176353 | MW-5 10-12' | Soil   | 7/30/01    | 10:10      | 8/3/01        |
| 176354 | MW-5 15-17' | Soil   | 7/30/01    | 10:28      | 8/3/01        |
| 176355 | MW-5 20-22' | Soil   | 7/30/01    | 10:51      | 8/3/01        |
| 176356 | MW-5 25-27' | Soil   | 7/30/01    | 10:58      | 8/3/01        |
| 176357 | MW-5 30-32' | Soil   | 7/30/01    | 11:11      | 8/3/01        |
| 176358 | MW-5 35-37' | Soil   | 7/30/01    | 12:02      | 8/3/01        |
| 176359 | MW-5 40-42' | Soil   | 7/30/01    | 12:11      | 8/3/01        |
| 176360 | MW-5 45-47' | Soil   | 7/30/01    | 12:22      | 8/3/01        |
| 176361 | MW-5 50-52' | Soil   | 7/30/01    | 12:28      | 8/3/01        |
| 176362 | MW-5 55-57' | Soil   | 7/30/01    | 12:30      | 8/3/01        |
| 176363 | MW-5 60-62' | Soil   | 7/30/01    | 12:32      | 8/3/01        |
| 176364 | MW-5 65-67' | Soil   | 7/30/01    | 12:35      | 8/3/01        |
| 176365 | MW-6 0-2'   | Soil   | 7/31/01    | 8:43       | 8/3/01        |
| 176366 | MW-6 5-7'   | Soil   | 7/31/01    | 8:52       | 8/3/01        |
| 176367 | MW-6 10-12' | Soil   | 7/31/01    | 8:59       | 8/3/01        |
| 176368 | MW-6 15-17' | Soil   | 7/31/01    | 9:07       | 8/3/01        |
| 176369 | MW-6 20-22' | Soil   | 7/31/01    | 9:10       | 8/3/01        |
| 176370 | MW-6 25-27' | Soil   | 7/31/01    | 9:13       | 8/3/01        |
| 176371 | MW-6 30-32' | Soil   | 7/31/01    | 9:18       | 8/3/01        |
| 176372 | MW-6 35-37' | Soil   | 7/31/01    | 9:50       | 8/3/01        |
| 176373 | MW-6 40-42' | Soil   | 7/31/01    | 10:00      | 8/3/01        |
| 176374 | MW-6 45-47' | Soil   | 7/31/01    | 10:10      | 8/3/01        |
| 176375 | MW-6 50-52' | Soil   | 7/31/01    | 10:20      | 8/3/01        |
| 176376 | MW-6 55-57' | Soil   | 7/31/01    | 10:31      | 8/3/01        |
| 176377 | MW-6 60-62' | Soil   | 7/31/01    | 10:40      | 8/3/01        |
| 176378 | MW-6 65-67' | Soil   | 7/31/01    | 10:52      | 8/3/01        |
| 176379 | MW-7 0-2'   | Soil   | 7/31/01    | 12:00      | 8/3/01        |
| 176380 | MW-7 5-7'   | Soil   | 7/31/01    | 12:10      | 8/3/01        |
| 176381 | MW-7 10-12' | Soil   | 7/31/01    | 12:21      | 8/3/01        |
| 176382 | MW-7 15-17' | Soil   | 7/31/01    | 12:35      | 8/3/01        |
| 176383 | MW-7 20-22' | Soil   | 7/31/01    | 12:43      | 8/3/01        |
| 176384 | MW-7 25-27' | Soil   | 7/31/01    | 12:52      | 8/3/01        |

Continued ...



| Sample | Description | Matrix | Date Taken | Time Taken | Date Received |
|--------|-------------|--------|------------|------------|---------------|
| 176385 | MW-7 30-32' | Soil   | 7/31/01    | 13:00      | 8/3/01        |
| 176386 | MW-7 35-37' | Soil   | 7/31/01    | 13:05      | 8/3/01        |
| 176387 | MW-7 40-42' | Soil   | 7/31/01    | 13:15      | 8/3/01        |
| 176388 | MW-7 45-47' | Soil   | 7/31/01    | 13:21      | 8/3/01        |
| 176389 | MW-7 50-52' | Soil   | 7/31/01    | 13:30      | 8/3/01        |
| 176390 | MW-7 55-57' | Soil   | 7/31/01    | 13:42      | 8/3/01        |
| 176391 | MW-7 60-62' | Soil   | 7/31/01    | 13:55      | 8/3/01        |
| 176392 | MW-8 0-2'   | Soil   | 8/1/01     | 9:15       | 8/3/01        |
| 176393 | MW-8 5-7'   | Soil   | 8/1/01     | 9:21       | 8/3/01        |
| 176394 | MW-8 10-12' | Soil   | 8/1/01     | 9:27       | 8/3/01        |
| 176395 | MW-8 15-17' | Soil   | 8/1/01     | 9:35       | 8/3/01        |
| 176396 | MW-8 20-22' | Soil   | 8/1/01     | 9:42       | 8/3/01        |
| 176397 | MW-8 25-27' | Soil   | 8/1/01     | 11:30      | 8/3/01        |
| 176398 | MW-8 30-32' | Soil   | 8/1/01     | 12:50      | 8/3/01        |
| 176399 | MW-8 35-37' | Soil   | 8/1/01     | 12:55      | 8/3/01        |
| 176400 | MW-8 40-42' | Soil   | 8/1/01     | 13:00      | 8/3/01        |
| 176401 | MW-8 45-47' | Soil   | 8/1/01     | 13:07      | 8/3/01        |
| 176402 | MW-8 50-52' | Soil   | 8/1/01     | 13:12      | 8/3/01        |
| 176403 | MW-8 55-57' | Soil   | 8/1/01     | 13:20      | 8/3/01        |
| 176404 | MW-8 60-62' | Soil   | 8/1/01     | 13:30      | 8/3/01        |
| 176405 | MW-8 65-67' | Soil   | 8/1/01     | 13:40      | 8/3/01        |

These results represent only the samples received in the laboratory. The Quality Control Report is generated on a batch basis. All information contained in this report is for the analytical batch(es) in which your sample(s) were analyzed.

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Dr. Blair Leftwich, Director

## Analytical Report

Sample: 176351 - MW-5 0-2'

Analysis: TPH DRO Analytical Method: Mod. 8015B QC Batch: QC13145 Date Analyzed: 8/7/01  
Analyst: JJ Preparation Method: 3550 B Prep Batch: PB11232 Date Prepared: 8/7/01

| Param | Flag | Result | Units | Dilution | RDL |
|-------|------|--------|-------|----------|-----|
| DRO   |      | <50    | mg/Kg | 1        | 50  |

| Surrogate | Flag | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|-----------|------|--------|-------|----------|--------------|------------------|-----------------|
| n-Octane  |      | 212    | mg/Kg | 1        | 250          | 84               | 70 - 130        |

Sample: 176351 - MW-5 0-2'

Analysis: TPH GRO Analytical Method: 8015B QC Batch: QC13111 Date Analyzed: 8/6/01  
Analyst: CG Preparation Method: 5035 Prep Batch: PB11199 Date Prepared: 8/6/01

| Param | Flag | Result | Units | Dilution | RDL  |
|-------|------|--------|-------|----------|------|
| GRO   |      | <1     | mg/Kg | 10       | 0.10 |

| Surrogate | Flag | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|-----------|------|--------|-------|----------|--------------|------------------|-----------------|
| TFT       |      | 0.83   | mg/Kg | 10       | 0.10         | 83               | 70 - 130        |
| 4-BFB     |      | 0.867  | mg/Kg | 10       | 0.10         | 86               | 70 - 130        |

Sample: 176352 - MW-5 5-7'

Analysis: TPH DRO Analytical Method: Mod. 8015B QC Batch: QC13145 Date Analyzed: 8/7/01  
Analyst: JJ Preparation Method: 3550 B Prep Batch: PB11232 Date Prepared: 8/7/01

| Param | Flag | Result | Units | Dilution | RDL |
|-------|------|--------|-------|----------|-----|
| DRO   |      | <50    | mg/Kg | 1        | 50  |

| Surrogate | Flag | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|-----------|------|--------|-------|----------|--------------|------------------|-----------------|
| n-Octane  |      | 241    | mg/Kg | 1        | 250          | 96               | 70 - 130        |

Sample: 176352 - MW-5 5-7'

Analysis: TPH GRO Analytical Method: 8015B QC Batch: QC13111 Date Analyzed: 8/6/01  
Analyst: CG Preparation Method: 5035 Prep Batch: PB11199 Date Prepared: 8/6/01

| Param | Flag | Result | Units | Dilution | RDL  |
|-------|------|--------|-------|----------|------|
| GRO   |      | <1     | mg/Kg | 10       | 0.10 |

| Surrogate | Flag | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|-----------|------|--------|-------|----------|--------------|------------------|-----------------|
| IFT       |      | 0.813  | mg/Kg | 10       | 0.10         | 81               | 70 - 130        |
| 4-BFB     |      | 0.898  | mg/Kg | 10       | 0.10         | 89               | 70 - 130        |

Sample: 176353 - MW-5 10-12'

Analysis: TPH DRO Analytical Method: Mod. 8015B QC Batch: QC13145 Date Analyzed: 8/7/01  
Analyst: JJ Preparation Method: 3550 B Prep Batch: PB11232 Date Prepared: 8/7/01

| Param | Flag | Result | Units | Dilution | RDL |
|-------|------|--------|-------|----------|-----|
| DRO   |      | <50    | mg/Kg | 1        | 50  |

| Surrogate | Flag | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|-----------|------|--------|-------|----------|--------------|------------------|-----------------|
| n-Octane  |      | 250    | mg/Kg | 1        | 250          | 100              | 70 - 130        |

Sample: 176353 - MW-5 10-12'

Analysis: TPH GRO Analytical Method: 8015B QC Batch: QC13111 Date Analyzed: 8/6/01  
Analyst: CG Preparation Method: 5035 Prep Batch: PB11199 Date Prepared: 8/6/01

| Param | Flag | Result | Units | Dilution | RDL  |
|-------|------|--------|-------|----------|------|
| GRO   |      | <1     | mg/Kg | 10       | 0.10 |

| Surrogate | Flag | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|-----------|------|--------|-------|----------|--------------|------------------|-----------------|
| TFT       |      | 0.77   | mg/Kg | 10       | 0.10         | 77               | 70 - 130        |
| 4-BFB     |      | 0.771  | mg/Kg | 10       | 0.10         | 77               | 70 - 130        |

Sample: 176354 - MW-5 15-17'

Analysis: TPH DRO Analytical Method: Mod. 8015B QC Batch: QC13145 Date Analyzed: 8/7/01  
Analyst: JJ Preparation Method: 3550 B Prep Batch: PB11232 Date Prepared: 8/7/01

| Param | Flag | Result | Units | Dilution | RDL |
|-------|------|--------|-------|----------|-----|
| DRO   |      | <50    | mg/Kg | 1        | 50  |

| Surrogate | Flag | Result | Units  | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|-----------|------|--------|--------|----------|--------------|------------------|-----------------|
| n-Octane  |      | 193    | mg, Kg | 1        | 250          | 77               | 70 - 130        |

Sample: 176354 - MW-5 15-17'

Analysis: TPH GRO Analytical Method: 8015B QC Batch: QC13111 Date Analyzed: 8/6/01  
Analyst: CG Preparation Method: 5035 Prep Batch: PB11199 Date Prepared: 8/6/01

| Param | Flag | Result | Units | Dilution | RDL  |
|-------|------|--------|-------|----------|------|
| GRO   |      | <1     | mg Kg | 10       | 0.10 |

| Surrogate | Flag | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|-----------|------|--------|-------|----------|--------------|------------------|-----------------|
| TFT       |      | 0.89   | mg/Kg | 10       | 0.10         | 89               | 70 - 130        |
| 4-BFB     |      | 0.94   | mg/Kg | 10       | 0.10         | 94               | 70 - 130        |

Sample: 176355 - MW-5 20-22'

Analysis: TPH DRO Analytical Method: Mod. 8015B QC Batch: QC13145 Date Analyzed: 8/7/01  
Analyst: JJ Preparation Method: 3550 B Prep Batch: PB11232 Date Prepared: 8/7/01

| Param | Flag | Result | Units | Dilution | RDL |
|-------|------|--------|-------|----------|-----|
| DRO   |      | <50    | mg/Kg | 1        | 50  |

| Surrogate | Flag | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|-----------|------|--------|-------|----------|--------------|------------------|-----------------|
| n-Octane  |      | 195    | mg/Kg | 1        | 250          | 78               | 70 - 130        |

Sample: 176355 - MW-5 20-22'

Analysis: TPH GRO Analytical Method: 8015B QC Batch: QC13111 Date Analyzed: 8/6/01  
Analyst: CG Preparation Method: 5035 Prep Batch: PB11199 Date Prepared: 8/6/01

| Param | Flag | Result | Units | Dilution | RDL  |
|-------|------|--------|-------|----------|------|
| GRO   |      | <1     | mg/Kg | 10       | 0.10 |

| Surrogate | Flag | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|-----------|------|--------|-------|----------|--------------|------------------|-----------------|
| TFT       |      | 0.768  | mg/Kg | 10       | 0.10         | 76               | 70 - 130        |
| 4-BFB     |      | 0.826  | mg/Kg | 10       | 0.10         | 82               | 70 - 130        |

Sample: 176356 - MW-5 25-27'

Analysis: TPH DRO Analytical Method: Mod. 8015B QC Batch: QC13145 Date Analyzed: 8/7/01  
Analyst: JJ Preparation Method: 3550 B Prep Batch: PB11232 Date Prepared: 8/7/01

| Param | Flag | Result | Units | Dilution | RDL |
|-------|------|--------|-------|----------|-----|
| DRO   |      | <50    | mg/Kg | 1        | 50  |

| Surrogate | Flag | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|-----------|------|--------|-------|----------|--------------|------------------|-----------------|
| n-Octane  |      | 232    | mg/Kg | 1        | 250          | 92               | 70 - 130        |

Sample: 176356 - MW-5 25-27'

Analysis: TPH GRO Analytical Method: 8015B QC Batch: QC13111 Date Analyzed: 8/6/01  
Analyst: CG Preparation Method: 5035 Prep Batch: PB11199 Date Prepared: 8/6/01

| Param | Flag | Result | Units | Dilution | RDL  |
|-------|------|--------|-------|----------|------|
| GRO   |      | <1     | mg/Kg | 10       | 0.10 |

| Surrogate | Flag | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|-----------|------|--------|-------|----------|--------------|------------------|-----------------|
| TFT       |      | 0.81   | mg/Kg | 10       | 0.10         | 81               | 70 - 130        |
| 4-BFB     |      | 0.854  | mg/Kg | 10       | 0.10         | 85               | 70 - 130        |

Sample: 176357 - MW-5 30-32'

Analysis: TPH DRO Analytical Method: Mod. 8015B QC Batch: QC13145 Date Analyzed: 8/7/01  
Analyst: JJ Preparation Method: 3550 B Prep Batch: PB11232 Date Prepared: 8/7/01

| Param | Flag | Result | Units | Dilution | RDL |
|-------|------|--------|-------|----------|-----|
| DRO   |      | <50    | mg/Kg | 1        | 50  |

| Surrogate | Flag | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|-----------|------|--------|-------|----------|--------------|------------------|-----------------|
| n-Octane  |      | 213    | mg/Kg | 1        | 250          | 85               | 70 - 130        |

Sample: 176357 - MW-5 30-32'

Analysis: TPH GRO Analytical Method: 8015B QC Batch: QC13111 Date Analyzed: 8/6/01  
Analyst: CG Preparation Method: 5035 Prep Batch: PB11199 Date Prepared: 8/6/01

| Param | Flag | Result | Units | Dilution | RDL  |
|-------|------|--------|-------|----------|------|
| GRO   |      | <1     | mg/Kg | 10       | 0.10 |

| Surrogate | Flag | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|-----------|------|--------|-------|----------|--------------|------------------|-----------------|
| TFT       |      | 0.817  | mg/Kg | 10       | 0.10         | 81               | 70 - 130        |
| 4-BFB     |      | 0.843  | mg/Kg | 10       | 0.10         | 84               | 70 - 130        |

Sample: 176358 - MW-5 35-37'

Analysis: TPH DRO Analytical Method: Mod. 8015B QC Batch: QC13145 Date Analyzed: 8/7/01  
Analyst: JJ Preparation Method: 3550 B Prep Batch: PB11232 Date Prepared: 8/7/01

| Param | Flag | Result | Units | Dilution | RDL |
|-------|------|--------|-------|----------|-----|
| DRO   |      | <50    | mg/Kg | 1        | 50  |

| Surrogate | Flag | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|-----------|------|--------|-------|----------|--------------|------------------|-----------------|
| n-Octane  |      | 260    | mg/Kg | 1        | 250          | 104              | 70 - 130        |

Sample: 176358 - MW-5 35-37'

Analysis: TPH GRO Analytical Method: 8015B QC Batch: QC13111 Date Analyzed: 8/6/01  
Analyst: CG Preparation Method: 5035 Prep Batch: PB11199 Date Prepared: 8/6/01

| Param | Flag | Result | Units | Dilution | RDL  |
|-------|------|--------|-------|----------|------|
| GRO   |      | <1     | mg/Kg | 10       | 0.10 |

| Surrogate | Flag | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|-----------|------|--------|-------|----------|--------------|------------------|-----------------|
| TFT       |      | 0.663  | mg/Kg | 10       | 0.10         | 66               | 70 - 130        |
| 4-BFB     |      | 0.782  | mg/Kg | 10       | 0.10         | 78               | 70 - 130        |

Sample: 176359 - MW-5 40-42'

Analysis: TPH DRO Analytical Method: Mod. 8015B QC Batch: QC13145 Date Analyzed: 8/7/01  
Analyst: JJ Preparation Method: 3550 B Prep Batch: PB11232 Date Prepared: 8/7/01

| Param | Flag | Result | Units | Dilution | RDL |
|-------|------|--------|-------|----------|-----|
| DRO   |      | <50    | mg/Kg | 1        | 50  |

| Surrogate | Flag | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|-----------|------|--------|-------|----------|--------------|------------------|-----------------|
| n-Octane  |      | 218    | mg/Kg | 1        | 250          | 87               | 70 - 130        |

Sample: 176359 - MW-5 40-42'

Analysis: TPH GRO Analytical Method: 8015B QC Batch: QC13111 Date Analyzed: 8/6/01  
Analyst: CG Preparation Method: 5035 Prep Batch: PB11199 Date Prepared: 8/6/01

| Param | Flag | Result | Units | Dilution | RDL  |
|-------|------|--------|-------|----------|------|
| GRO   |      | <1     | mg/Kg | 10       | 0.10 |

| Surrogate | Flag | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|-----------|------|--------|-------|----------|--------------|------------------|-----------------|
| TFT       |      | 0.768  | mg/Kg | 10       | 0.10         | 76               | 70 - 130        |
| 4-BFB     |      | 0.812  | mg/Kg | 10       | 0.10         | 81               | 70 - 130        |

Sample: 176360 - MW-5 45-47'

Analysis: TPH DRO Analytical Method: Mod. 8015B QC Batch: QC13145 Date Analyzed: 8/7/01  
Analyst: JJ Preparation Method: 3550 B Prep Batch: PB11232 Date Prepared: 8/7/01

| Param | Flag | Result | Units | Dilution | RDL |
|-------|------|--------|-------|----------|-----|
| DRO   |      | <50    | mg/Kg | 1        | 50  |

| Surrogate | Flag | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|-----------|------|--------|-------|----------|--------------|------------------|-----------------|
| n-Octane  |      | 225    | mg/Kg | 1        | 250          | 90               | 70 - 130        |

Sample: 176360 - MW-5 45-47'

Analysis: TPH GRO Analytical Method: 8015B QC Batch: QC13111 Date Analyzed: 8/6/01  
Analyst: CG Preparation Method: 5035 Prep Batch: PB11199 Date Prepared: 8/6/01

| Param | Flag | Result | Units | Dilution | RDL  |
|-------|------|--------|-------|----------|------|
| GRO   |      | <1     | mg/Kg | 10       | 0.10 |

| Surrogate | Flag | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|-----------|------|--------|-------|----------|--------------|------------------|-----------------|
| TFT       |      | 0.777  | mg/Kg | 10       | 0.10         | 77               | 70 - 130        |
| 4-BFB     |      | 0.902  | mg/Kg | 10       | 0.10         | 90               | 70 - 130        |

Sample: 176361 - MW-5 50-52'

Analysis: TPH DRO Analytical Method: Mod. 8015B QC Batch: QC13145 Date Analyzed: 8/7/01  
Analyst: JJ Preparation Method: 3550 B Prep Batch: PB11232 Date Prepared: 8/7/01

| Param | Flag | Result | Units | Dilution | RDL |
|-------|------|--------|-------|----------|-----|
| DRO   |      | <50    | mg/Kg | 1        | 50  |

| Surrogate | Flag | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|-----------|------|--------|-------|----------|--------------|------------------|-----------------|
| n-Octane  |      | 183    | mg/Kg | 1        | 250          | 73               | 70 - 130        |

Sample: 176361 - MW-5 50-52'

Analysis: TPH GRO Analytical Method: 8015B QC Batch: QC13113 Date Analyzed: 8/6/01  
Analyst: CG Preparation Method: 5035 Prep Batch: PB11201 Date Prepared: 8/6/01

| Param | Flag | Result | Units | Dilution | RDL  |
|-------|------|--------|-------|----------|------|
| GRO   |      | 1.53   | mg/Kg | 10       | 0.10 |

| Surrogate | Flag | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|-----------|------|--------|-------|----------|--------------|------------------|-----------------|
| TFT       |      | 0.826  | mg/Kg | 10       | 0.10         | 82               | 70 - 130        |
| 4-BFB     |      | 0.827  | mg/Kg | 10       | 0.10         | 82               | 70 - 130        |

Sample: 176362 - MW-5 55-57'

Analysis: TPH DRO Analytical Method: Mod. 8015B QC Batch: QC13145 Date Analyzed: 8/7/01  
Analyst: JJ Preparation Method: 3550 B Prep Batch: PB11232 Date Prepared: 8/7/01

| Param | Flag | Result | Units | Dilution | RDL |
|-------|------|--------|-------|----------|-----|
| DRO   |      | <50    | mg/Kg | 1        | 50  |

| Surrogate | Flag | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|-----------|------|--------|-------|----------|--------------|------------------|-----------------|
| n-Octane  |      | 226    | mg/Kg | 1        | 250          | 90               | 70 - 130        |

Sample: 176362 - MW-5 55-57'

Analysis: TPH GRO Analytical Method: 8015B QC Batch: QC13113 Date Analyzed: 8/6/01  
Analyst: CG Preparation Method: 5035 Prep Batch: PB11201 Date Prepared: 8/6/01

| Param | Flag | Result | Units | Dilution | RDL  |
|-------|------|--------|-------|----------|------|
| GRO   |      | <1     | mg/Kg | 10       | 0.10 |

| Surrogate | Flag | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|-----------|------|--------|-------|----------|--------------|------------------|-----------------|
| TFT       |      | 0.722  | mg/Kg | 10       | 0.10         | 72               | 70 - 130        |
| 4-BFB     | 2    | 0.69   | mg/Kg | 10       | 0.10         | 60               | 70 - 130        |

Sample: 176363 - MW-5 60-62'

Analysis: TPH DRO Analytical Method: Mod. 8015B QC Batch: QC13145 Date Analyzed: 8/7/01  
Analyst: JJ Preparation Method: 3550 B Prep Batch: PB11232 Date Prepared: 8/7/01

| Param | Flag | Result | Units | Dilution | RDL |
|-------|------|--------|-------|----------|-----|
| DRO   |      | <50    | mg/Kg | 1        | 50  |

| Surrogate | Flag | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|-----------|------|--------|-------|----------|--------------|------------------|-----------------|
| n-Octane  |      | 237    | mg/Kg | 1        | 250          | 94               | 70 - 130        |

Sample: 176363 - MW-5 60-62'

Analysis: TPH GRO Analytical Method: 8015B QC Batch: QC13111 Date Analyzed: 8/6/01  
Analyst: CG Preparation Method: 5035 Prep Batch: PB11199 Date Prepared: 8/6/01

| Param | Flag | Result | Units | Dilution | RDL  |
|-------|------|--------|-------|----------|------|
| GRO   |      | <1     | mg/Kg | 10       | 0.10 |

| Surrogate | Flag | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|-----------|------|--------|-------|----------|--------------|------------------|-----------------|
| TFT       |      | 0.852  | mg/Kg | 10       | 0.10         | 85               | 70 - 130        |
| 4-BFB     |      | 0.904  | mg/Kg | 10       | 0.10         | 90               | 70 - 130        |

Sample: 176364 - MW-5 65-67'

Analysis: TPH DRO Analytical Method: Mod. 8015B QC Batch: QC13145 Date Analyzed: 8/7/01  
Analyst: JJ Preparation Method: 3550 B Prep Batch: PB11232 Date Prepared: 8/7/01

| Param | Flag | Result | Units | Dilution | RDL |
|-------|------|--------|-------|----------|-----|
| DRO   |      | <50    | mg/Kg | 1        | 50  |

| Surrogate | Flag | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|-----------|------|--------|-------|----------|--------------|------------------|-----------------|
| n-Octane  |      | 353    | mg/Kg | 1        | 250          | 101              | 70 - 130        |

-Poor surrogate recovery due to matrix difficulties.



Sample: 176364 - MW-5 65-67'

Analysis: TPH GRO Analytical Method: 8015B QC Batch: QC13111 Date Analyzed: 8/6/01  
Analyst: CG Preparation Method: 5035 Prep Batch: PB11199 Date Prepared: 8/6/01

| Param | Flag | Result | Units | Dilution | RDL  |
|-------|------|--------|-------|----------|------|
| GRO   |      | <1     | mg/Kg | 10       | 0.10 |

| Surrogate | Flag | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|-----------|------|--------|-------|----------|--------------|------------------|-----------------|
| TFT       |      | 0.799  | mg/Kg | 10       | 0.10         | 79               | 70 - 130        |
| 4-BFB     |      | 0.808  | mg/Kg | 10       | 0.10         | 80               | 70 - 130        |

Sample: 176365 - MW-6 0-2'

Analysis: TPH DRO Analytical Method: Mod. 8015B QC Batch: QC13145 Date Analyzed: 8/7/01  
Analyst: JJ Preparation Method: 3550 B Prep Batch: PB11232 Date Prepared: 8/7/01

| Param | Flag | Result | Units | Dilution | RDL |
|-------|------|--------|-------|----------|-----|
| DRO   |      | <50    | mg/Kg | 1        | 50  |

| Surrogate | Flag | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|-----------|------|--------|-------|----------|--------------|------------------|-----------------|
| n-Octane  |      | 239    | mg/Kg | 1        | 250          | 95               | 70 - 130        |

Sample: 176365 - MW-6 0-2'

Analysis: TPH GRO Analytical Method: 8015B QC Batch: QC13111 Date Analyzed: 8/6/01  
Analyst: CG Preparation Method: 5035 Prep Batch: PB11199 Date Prepared: 8/6/01

| Param | Flag | Result | Units | Dilution | RDL  |
|-------|------|--------|-------|----------|------|
| GRO   |      | <1     | mg/Kg | 10       | 0.10 |

| Surrogate | Flag | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|-----------|------|--------|-------|----------|--------------|------------------|-----------------|
| TFT       | 3    | 0.663  | mg/Kg | 10       | 0.10         | 66               | 70 - 130        |
| 4-BFB     |      | 0.725  | mg/Kg | 10       | 0.10         | 72               | 70 - 130        |

Sample: 176366 - MW-6 5-7'

Analysis: TPH DRO Analytical Method: Mod. 8015B QC Batch: QC13145 Date Analyzed: 8/7/01  
Analyst: JJ Preparation Method: 3550 B Prep Batch: PB11232 Date Prepared: 8/7/01

| Param | Flag | Result | Units | Dilution | RDL |
|-------|------|--------|-------|----------|-----|
| DRO   |      | <50    | mg/Kg | 1        | 50  |

| Surrogate | Flag | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|-----------|------|--------|-------|----------|--------------|------------------|-----------------|
| n-Octane  |      | 192    | mg/Kg | 1        | 250          | 92               | 70 - 130        |

(Poor surrogate recovery due to prep error.)

**Sample: 176366 - MW-6 5-7'**

Analysis: TPH GRO Analytical Method: 8015B QC Batch: QC13111 Date Analyzed: 8/6/01  
Analyst: CG Preparation Method: 5035 Prep Batch: PB11199 Date Prepared: 8/6/01

| Param | Flag | Result | Units | Dilution | RDL  |
|-------|------|--------|-------|----------|------|
| GRO   |      | <1     | mg/Kg | 10       | 0.10 |

| Surrogate | Flag | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|-----------|------|--------|-------|----------|--------------|------------------|-----------------|
| TFT       |      | 0.842  | mg/Kg | 10       | 0.10         | 84               | 70 - 130        |
| 4-BFB     |      | 0.867  | mg/Kg | 10       | 0.10         | 86               | 70 - 130        |

**Sample: 176367 - MW-6 10-12'**

Analysis: TPH DRO Analytical Method: Mod. 8015B QC Batch: QC13145 Date Analyzed: 8/7/01  
Analyst: JJ Preparation Method: 3550 B Prep Batch: PB11232 Date Prepared: 8/7/01

| Param | Flag | Result | Units | Dilution | RDL |
|-------|------|--------|-------|----------|-----|
| DRO   |      | <50    | mg/Kg | 1        | 50  |

| Surrogate | Flag | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|-----------|------|--------|-------|----------|--------------|------------------|-----------------|
| n-Octane  |      | 218    | mg/Kg | 1        | 250          | 87               | 70 - 130        |

**Sample: 176367 - MW-6 10-12'**

Analysis: TPH GRO Analytical Method: 8015B QC Batch: QC13111 Date Analyzed: 8/6/01  
Analyst: CG Preparation Method: 5035 Prep Batch: PB11199 Date Prepared: 8/6/01

| Param | Flag | Result | Units | Dilution | RDL  |
|-------|------|--------|-------|----------|------|
| GRO   |      | <1     | mg/Kg | 10       | 0.10 |

| Surrogate | Flag | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|-----------|------|--------|-------|----------|--------------|------------------|-----------------|
| TFT       |      | 0.843  | mg/Kg | 10       | 0.10         | 84               | 70 - 130        |
| 4-BFB     |      | 0.941  | mg/Kg | 10       | 0.10         | 94               | 70 - 130        |

**Sample: 176368 - MW-6 15-17'**

Analysis: TPH DRO Analytical Method: Mod. 8015B QC Batch: QC13145 Date Analyzed: 8/7/01  
Analyst: JJ Preparation Method: 3550 B Prep Batch: PB11232 Date Prepared: 8/7/01

| Param | Flag | Result | Units | Dilution | RDL |
|-------|------|--------|-------|----------|-----|
| DRO   |      | <50    | mg/Kg | 1        | 50  |

| Surrogate | Flag | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|-----------|------|--------|-------|----------|--------------|------------------|-----------------|
| n-Octane  |      | 290    | mg/Kg | 1        | 250          | 116              | 70 - 130        |

Sample: 176368 - MW-6 15-17'

Analysis: TPH GRO Analytical Method: 8015B QC Batch: QC13111 Date Analyzed: 8/6/01  
Analyst: CG Preparation Method: 5035 Prep Batch: PB11199 Date Prepared: 8/6/01

| Param | Flag | Result | Units | Dilution | RDL  |
|-------|------|--------|-------|----------|------|
| GRO   |      | <1     | mg/Kg | 10       | 0.10 |

| Surrogate | Flag | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|-----------|------|--------|-------|----------|--------------|------------------|-----------------|
| TFT       |      | 0.861  | mg/Kg | 10       | 0.10         | 86               | 70 - 130        |
| 4-BFB     |      | 0.931  | mg/Kg | 10       | 0.10         | 93               | 70 - 130        |

Sample: 176369 - MW-6 20-22'

Analysis: TPH DRO Analytical Method: Mod. 8015B QC Batch: QC13145 Date Analyzed: 8/7/01  
Analyst: JJ Preparation Method: 3550 B Prep Batch: PB11232 Date Prepared: 8/7/01

| Param | Flag | Result | Units | Dilution | RDL |
|-------|------|--------|-------|----------|-----|
| DRO   |      | <50    | mg/Kg | 1        | 50  |

| Surrogate | Flag | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|-----------|------|--------|-------|----------|--------------|------------------|-----------------|
| n-Octane  |      | 209    | mg/Kg | 1        | 250          | 83               | 70 - 130        |

Sample: 176369 - MW-6 20-22'

Analysis: TPH GRO Analytical Method: 8015B QC Batch: QC13111 Date Analyzed: 8/6/01  
Analyst: CG Preparation Method: 5035 Prep Batch: PB11199 Date Prepared: 8/6/01

| Param | Flag | Result | Units | Dilution | RDL  |
|-------|------|--------|-------|----------|------|
| GRO   |      | <1     | mg/Kg | 10       | 0.10 |

| Surrogate | Flag | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|-----------|------|--------|-------|----------|--------------|------------------|-----------------|
| TFT       |      | 0.867  | mg/Kg | 10       | 0.10         | 86               | 70 - 130        |
| 4-BFB     |      | 0.883  | mg/Kg | 10       | 0.10         | 88               | 70 - 130        |

Sample: 176370 - MW-6 25-27'

Analysis: TPH DRO Analytical Method: Mod. 8015B QC Batch: QC13145 Date Analyzed: 8/7/01  
Analyst: JJ Preparation Method: 3550 B Prep Batch: PB11232 Date Prepared: 8/7/01

| Param | Flag | Result | Units | Dilution | RDL |
|-------|------|--------|-------|----------|-----|
| DRO   |      | <50    | mg/Kg | 1        | 50  |

| Surrogate | Flag | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|-----------|------|--------|-------|----------|--------------|------------------|-----------------|
| n-Octane  |      | 209    | mg/Kg | 1        | 250          | 95               | 70 - 130        |

Sample: 176370 - MW-6 25-27'

Analysis: TPH GRO Analytical Method: 8015B QC Batch: QC13111 Date Analyzed: 8/6/01  
Analyst: CG Preparation Method: 5035 Prep Batch: PB11199 Date Prepared: 8/6/01

| Param | Flag | Result | Units | Dilution | RDL  |
|-------|------|--------|-------|----------|------|
| GRO   |      | <1     | mg/Kg | 10       | 0.10 |

| Surrogate | Flag | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|-----------|------|--------|-------|----------|--------------|------------------|-----------------|
| TFT       |      | 0.856  | mg/Kg | 10       | 0.10         | 85               | 70 - 130        |
| 4-BFB     |      | 0.964  | mg/Kg | 10       | 0.10         | 96               | 70 - 130        |

Sample: 176371 - MW-6 30-32'

Analysis: TPH DRO Analytical Method: Mod. 8015B QC Batch: QC13146 Date Analyzed: 8/7/01  
Analyst: JJ Preparation Method: 3550 B Prep Batch: PB11233 Date Prepared: 8/7/01

| Param | Flag | Result | Units | Dilution | RDL |
|-------|------|--------|-------|----------|-----|
| DRO   |      | <50    | mg/Kg | 1        | 50  |

| Surrogate | Flag | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|-----------|------|--------|-------|----------|--------------|------------------|-----------------|
| n-Octane  |      | 243    | mg/Kg | 1        | 250          | 97               | 70 - 130        |

Sample: 176371 - MW-6 30-32'

Analysis: TPH GRO Analytical Method: 8015B QC Batch: QC13112 Date Analyzed: 8/6/01  
Analyst: CG Preparation Method: 5035 Prep Batch: PB11200 Date Prepared: 8/6/01

| Param | Flag | Result | Units | Dilution | RDL  |
|-------|------|--------|-------|----------|------|
| GRO   |      | <1     | mg/Kg | 10       | 0.10 |

| Surrogate | Flag | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|-----------|------|--------|-------|----------|--------------|------------------|-----------------|
| TFT       |      | 0.869  | mg/Kg | 10       | 0.10         | 85               | 70 - 130        |
| 4-BFB     |      | 0.815  | mg/Kg | 10       | 0.10         | 93               | 70 - 130        |

Sample: 176372 - MW-6 35-37'

Analysis: TPH DRO Analytical Method: Mod. 8015B QC Batch: QC13146 Date Analyzed: 8/7/01  
Analyst: JJ Preparation Method: 3550 B Prep Batch: PB11233 Date Prepared: 8/7/01

| Param | Flag | Result | Units | Dilution | RDL |
|-------|------|--------|-------|----------|-----|
| DRO   |      | <50    | mg/Kg | 1        | 50  |

| Surrogate | Flag | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|-----------|------|--------|-------|----------|--------------|------------------|-----------------|
| n-Octane  |      | 221    | mg/Kg | 1        | 250          | 89               | 70 - 130        |

Sample: 176372 - MW-6 35-37'

Analysis: TPH GRO Analytical Method: 8015B QC Batch: QC13112 Date Analyzed: 8/6/01  
Analyst: CG Preparation Method: 5035 Prep Batch: PB11200 Date Prepared: 8/6/01

| Param | Flag | Result | Units | Dilution | RDL  |
|-------|------|--------|-------|----------|------|
| GRO   |      | <1     | mg/Kg | 10       | 0.10 |

| Surrogate | Flag | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|-----------|------|--------|-------|----------|--------------|------------------|-----------------|
| TFT       |      | 0.897  | mg/Kg | 10       | 0.10         | 89               | 70 - 130        |
| 4-BFB     |      | 0.856  | mg/Kg | 10       | 0.10         | 95               | 70 - 130        |

Sample: 176373 - MW-6 40-42'

Analysis: TPH DRO Analytical Method: Mod. 8015B QC Batch: QC13146 Date Analyzed: 8/7/01  
Analyst: JJ Preparation Method: 3550 B Prep Batch: PB11233 Date Prepared: 8/7/01

| Param | Flag | Result | Units | Dilution | RDL |
|-------|------|--------|-------|----------|-----|
| DRO   |      | <50    | mg/Kg | 1        | 50  |

| Surrogate | Flag | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|-----------|------|--------|-------|----------|--------------|------------------|-----------------|
| n-Octane  |      | 216    | mg/Kg | 1        | 250          | 86               | 70 - 130        |

Sample: 176373 - MW-6 40-42'

Analysis: TPH GRO Analytical Method: 8015B QC Batch: QC13112 Date Analyzed: 8/6/01  
Analyst: CG Preparation Method: 5035 Prep Batch: PB11200 Date Prepared: 8/6/01

| Param | Flag | Result | Units | Dilution | RDL  |
|-------|------|--------|-------|----------|------|
| GRO   |      | <1     | mg/Kg | 10       | 0.10 |

| Surrogate | Flag | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|-----------|------|--------|-------|----------|--------------|------------------|-----------------|
| TFT       |      | 0.861  | mg/Kg | 10       | 0.10         | 84               | 70 - 130        |
| 4-BFB     |      | 0.827  | mg/Kg | 10       | 0.10         | 92               | 70 - 130        |

Sample: 176374 - MW-6 45-47'

Analysis: TPH DRO Analytical Method: Mod. 8015B QC Batch: QC13146 Date Analyzed: 8/7/01  
Analyst: JJ Preparation Method: 3550 B Prep Batch: PB11233 Date Prepared: 8/7/01

| Param | Flag | Result | Units | Dilution | RDL |
|-------|------|--------|-------|----------|-----|
| DRO   |      | <50    | mg/Kg | 1        | 50  |

| Surrogate | Flag | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|-----------|------|--------|-------|----------|--------------|------------------|-----------------|
| n-Octane  |      | 211    | mg/Kg | 1        | 250          | 84               | 70 - 130        |

Sample: 176374 - MW-6 45-47'

Analysis: TPH GRO Analytical Method: 8015B QC Batch: QC13112 Date Analyzed: 8/6/01  
Analyst: CG Preparation Method: 5035 Prep Batch: PB11200 Date Prepared: 8/6/01

| Param | Flag | Result | Units | Dilution | RDL  |
|-------|------|--------|-------|----------|------|
| GRO   |      | <1     | mg/Kg | 10       | 0.10 |

| Surrogate | Flag | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|-----------|------|--------|-------|----------|--------------|------------------|-----------------|
| TFT       |      | 0.837  | mg/Kg | 10       | 0.10         | 81               | 70 - 130        |
| 4-BFB     |      | 0.8    | mg/Kg | 10       | 0.10         | 84               | 70 - 130        |

Sample: 176375 - MW-6 50-52'

Analysis: TPH DRO Analytical Method: Mod. 8015B QC Batch: QC13146 Date Analyzed: 8/7/01  
Analyst: JJ Preparation Method: 3550 B Prep Batch: PB11233 Date Prepared: 8/7/01

| Param | Flag | Result | Units | Dilution | RDL |
|-------|------|--------|-------|----------|-----|
| DRO   |      | <50    | mg/Kg | 1        | 50  |

| Surrogate | Flag | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|-----------|------|--------|-------|----------|--------------|------------------|-----------------|
| n-Octane  |      | 266    | mg/Kg | 1        | 250          | 106              | 70 - 130        |

Sample: 176375 - MW-6 50-52'

Analysis: TPH GRO Analytical Method: 8015B QC Batch: QC13112 Date Analyzed: 8/6/01  
Analyst: CG Preparation Method: 5035 Prep Batch: PB11200 Date Prepared: 8/6/01

| Param | Flag | Result | Units | Dilution | RDL  |
|-------|------|--------|-------|----------|------|
| GRO   |      | <1     | mg/Kg | 10       | 0.10 |

| Surrogate | Flag | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|-----------|------|--------|-------|----------|--------------|------------------|-----------------|
| TFT       |      | 0.873  | mg/Kg | 10       | 0.10         | 83               | 70 - 130        |
| 4-BFB     |      | 0.816  | mg/Kg | 10       | 0.10         | 90               | 70 - 130        |

Sample: 176376 - MW-6 55-57'

Analysis: TPH DRO Analytical Method: Mod. 8015B QC Batch: QC13146 Date Analyzed: 8/7/01  
Analyst: JJ Preparation Method: 3550 B Prep Batch: PB11233 Date Prepared: 8/7/01

| Param | Flag | Result | Units | Dilution | RDL |
|-------|------|--------|-------|----------|-----|
| DRO   |      | <50    | mg/Kg | 1        | 50  |

| Surrogate | Flag | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|-----------|------|--------|-------|----------|--------------|------------------|-----------------|
| n-Octane  |      | 266    | mg/Kg | 1        | 250          | 106              | 70 - 130        |

**Sample: 176376 - MW-6 55-57'**

Analysis: TPH GRO Analytical Method: 8015B QC Batch: QC13112 Date Analyzed: 8/6/01  
Analyst: CG Preparation Method: 5035 Prep Batch: PB11200 Date Prepared: 8/6/01

| Param | Flag | Result | Units | Dilution | RDL  |
|-------|------|--------|-------|----------|------|
| GRO   |      | <1     | mg/Kg | 10       | 0.10 |

| Surrogate | Flag | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|-----------|------|--------|-------|----------|--------------|------------------|-----------------|
| TFT       |      | 0.805  | mg/Kg | 10       | 0.10         | 78               | 70 - 130        |
| 4-BFB     |      | 0.776  | mg/Kg | 10       | 0.10         | 85               | 70 - 130        |

**Sample: 176377 - MW-6 60-62'**

Analysis: TPH DRO Analytical Method: Mod. 8015B QC Batch: QC13146 Date Analyzed: 8/7/01  
Analyst: JJ Preparation Method: 3550 B Prep Batch: PB11233 Date Prepared: 8/7/01

| Param | Flag | Result | Units | Dilution | RDL |
|-------|------|--------|-------|----------|-----|
| DRO   |      | 162    | mg/Kg | 1        | 50  |

| Surrogate | Flag | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|-----------|------|--------|-------|----------|--------------|------------------|-----------------|
| n-Octane  |      | 276    | mg/Kg | 1        | 250          | 110              | 70 - 130        |

**Sample: 176377 - MW-6 60-62'**

Analysis: TPH GRO Analytical Method: 8015B QC Batch: QC13112 Date Analyzed: 8/6/01  
Analyst: CG Preparation Method: 5035 Prep Batch: PB11200 Date Prepared: 8/6/01

| Param | Flag | Result | Units | Dilution | RDL  |
|-------|------|--------|-------|----------|------|
| GRO   |      | <1     | mg/Kg | 10       | 0.10 |

| Surrogate | Flag | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|-----------|------|--------|-------|----------|--------------|------------------|-----------------|
| TFT       |      | 0.775  | mg/Kg | 10       | 0.10         | 77               | 70 - 130        |
| 4-BFB     |      | 0.74   | mg/Kg | 10       | 0.10         | 78               | 70 - 130        |

**Sample: 176378 - MW-6 65-67'**

Analysis: TPH DRO Analytical Method: Mod. 8015B QC Batch: QC13146 Date Analyzed: 8/7/01  
Analyst: JJ Preparation Method: 3550 B Prep Batch: PB11233 Date Prepared: 8/7/01

| Param | Flag | Result | Units | Dilution | RDL |
|-------|------|--------|-------|----------|-----|
| DRO   |      | 78.3   | mg/Kg | 1        | 50  |

| Surrogate | Flag | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|-----------|------|--------|-------|----------|--------------|------------------|-----------------|
| n-Octane  |      | 102    | mg/Kg | 1        | 250          | 76               | 70 - 130        |

Sample: 176378 - MW-6 65-67'

Analysis: TPH GRO Analytical Method: 8015B QC Batch: QC13112 Date Analyzed: 8/6/01  
Analyst: CG Preparation Method: 5035 Prep Batch: PB11200 Date Prepared: 8/6/01

| Param | Flag | Result | Units | Dilution | RDL  |
|-------|------|--------|-------|----------|------|
| GRO   |      | 1.23   | mg/Kg | 10       | 0.10 |

| Surrogate | Flag | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|-----------|------|--------|-------|----------|--------------|------------------|-----------------|
| TFT       |      | 0.724  | mg/Kg | 10       | 0.10         | 75               | 70 - 130        |
| 4-BFB     |      | 0.794  | mg/Kg | 10       | 0.10         | 76               | 70 - 130        |

Sample: 176379 - MW-7 0-2'

Analysis: TPH DRO Analytical Method: Mod. 8015B QC Batch: QC13146 Date Analyzed: 8/7/01  
Analyst: JJ Preparation Method: 3550 B Prep Batch: PB11233 Date Prepared: 8/7/01

| Param | Flag | Result | Units | Dilution | RDL |
|-------|------|--------|-------|----------|-----|
| DRO   |      | <50    | mg/Kg | 1        | 50  |

| Surrogate | Flag | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|-----------|------|--------|-------|----------|--------------|------------------|-----------------|
| n-Octane  |      | 320    | mg/Kg | 1        | 250          | 128              | 70 - 130        |

Sample: 176379 - MW-7 0-2'

Analysis: TPH GRO Analytical Method: 8015B QC Batch: QC13112 Date Analyzed: 8/6/01  
Analyst: CG Preparation Method: 5035 Prep Batch: PB11200 Date Prepared: 8/6/01

| Param | Flag | Result | Units | Dilution | RDL  |
|-------|------|--------|-------|----------|------|
| GRO   |      | <1     | mg/Kg | 10       | 0.10 |

| Surrogate | Flag | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|-----------|------|--------|-------|----------|--------------|------------------|-----------------|
| TFT       |      | 0.824  | mg/Kg | 10       | 0.10         | 80               | 70 - 130        |
| 4-BFB     |      | 0.854  | mg/Kg | 10       | 0.10         | 89               | 70 - 130        |

Sample: 176380 - MW-7 5-7'

Analysis: TPH DRO Analytical Method: Mod. 8015B QC Batch: QC13146 Date Analyzed: 8/7/01  
Analyst: JJ Preparation Method: 3550 B Prep Batch: PB11233 Date Prepared: 8/7/01

| Param | Flag | Result | Units | Dilution | RDL |
|-------|------|--------|-------|----------|-----|
| DRO   |      | <50    | mg/Kg | 1        | 50  |

| Surrogate | Flag | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|-----------|------|--------|-------|----------|--------------|------------------|-----------------|
| n-Octane  |      | 135    | mg/Kg | 1        | 250          | 95               | 70 - 130        |



Sample: 176380 - MW-7 5-7'

Analysis: TPH GRO Analytical Method: 8015B QC Batch: QC13112 Date Analyzed: 8/6/01  
Analyst: CG Preparation Method: 5035 Prep Batch: PB11200 Date Prepared: 8/6/01

| Param | Flag | Result | Units | Dilution | RDL  |
|-------|------|--------|-------|----------|------|
| GRO   |      | <1     | mg/Kg | 10       | 0.10 |

| Surrogate | Flag | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|-----------|------|--------|-------|----------|--------------|------------------|-----------------|
| TFT       |      | 0.381  | mg/Kg | 10       | 0.10         | 89               | 70 - 130        |
| 4-BFB     |      | 0.871  | mg/Kg | 10       | 0.10         | 99               | 70 - 130        |

Sample: 176381 - MW-7 10-12'

Analysis: TPH DRO Analytical Method: Mod. 8015B QC Batch: QC13146 Date Analyzed: 8/7/01  
Analyst: JJ Preparation Method: 3550 B Prep Batch: PB11233 Date Prepared: 8/7/01

| Param | Flag | Result | Units | Dilution | RDL |
|-------|------|--------|-------|----------|-----|
| DRO   |      | <50    | mg/Kg | 1        | 50  |

| Surrogate | Flag | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|-----------|------|--------|-------|----------|--------------|------------------|-----------------|
| n-Octane  |      | 296    | mg/Kg | 1        | 250          | 118              | 70 - 130        |

Sample: 176381 - MW-7 10-12'

Analysis: TPH GRO Analytical Method: 8015B QC Batch: QC13112 Date Analyzed: 8/6/01  
Analyst: CG Preparation Method: 5035 Prep Batch: PB11200 Date Prepared: 8/6/01

| Param | Flag | Result | Units | Dilution | RDL  |
|-------|------|--------|-------|----------|------|
| GRO   |      | <1     | mg/Kg | 10       | 0.10 |

| Surrogate | Flag | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|-----------|------|--------|-------|----------|--------------|------------------|-----------------|
| TFT       |      | 0.869  | mg/Kg | 10       | 0.10         | 85               | 70 - 130        |
| 4-BFB     |      | 0.836  | mg/Kg | 10       | 0.10         | 97               | 70 - 130        |

Sample: 176382 - MW-7 15-17'

Analysis: TPH DRO Analytical Method: Mod. 8015B QC Batch: QC13146 Date Analyzed: 8/7/01  
Analyst: JJ Preparation Method: 3550 B Prep Batch: PB11233 Date Prepared: 8/7/01

| Param | Flag | Result | Units | Dilution | RDL |
|-------|------|--------|-------|----------|-----|
| DRO   |      | <50    | mg/Kg | 1        | 50  |

| Surrogate | Flag | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|-----------|------|--------|-------|----------|--------------|------------------|-----------------|
| n-Octane  |      | 250    | mg/Kg | 1        | 250          | 100              | 70 - 130        |

**Sample: 176382 - MW-7 15-17'**

Analysis: TPH GRO Analytical Method: 8015B QC Batch: QC13112 Date Analyzed: 8/6/01  
Analyst: CG Preparation Method: 5035 Prep Batch: PB11200 Date Prepared: 8/6/01

| Param | Flag | Result | Units | Dilution | RDL  |
|-------|------|--------|-------|----------|------|
| GRO   |      | <1     | mg/Kg | 10       | 0.10 |

| Surrogate | Flag | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|-----------|------|--------|-------|----------|--------------|------------------|-----------------|
| TFT       |      | 0.869  | mg/Kg | 10       | 0.10         | 83               | 70 - 130        |
| 4-BFB     |      | 0.824  | mg/Kg | 10       | 0.10         | 90               | 70 - 130        |

**Sample: 176383 - MW-7 20-22'**

Analysis: TPH DRO Analytical Method: Mod. 8015B QC Batch: QC13146 Date Analyzed: 8/7/01  
Analyst: JJ Preparation Method: 3550 B Prep Batch: PB11233 Date Prepared: 8/7/01

| Param | Flag | Result | Units | Dilution | RDL |
|-------|------|--------|-------|----------|-----|
| DRO   |      | <50    | mg/Kg | 1        | 50  |

| Surrogate | Flag | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|-----------|------|--------|-------|----------|--------------|------------------|-----------------|
| n-Octane  |      | 254    | mg/Kg | 1        | 250          | 101              | 70 - 130        |

**Sample: 176383 - MW-7 20-22'**

Analysis: TPH GRO Analytical Method: 8015B QC Batch: QC13112 Date Analyzed: 8/6/01  
Analyst: CG Preparation Method: 5035 Prep Batch: PB11200 Date Prepared: 8/6/01

| Param | Flag | Result | Units | Dilution | RDL  |
|-------|------|--------|-------|----------|------|
| GRO   |      | <1     | mg/Kg | 10       | 0.10 |

| Surrogate | Flag | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|-----------|------|--------|-------|----------|--------------|------------------|-----------------|
| TFT       |      | 0.819  | mg/Kg | 10       | 0.10         | 79               | 70 - 130        |
| 4-BFB     |      | 0.778  | mg/Kg | 10       | 0.10         | 88               | 70 - 130        |

**Sample: 176384 - MW-7 25-27'**

Analysis: TPH DRO Analytical Method: Mod. 8015B QC Batch: QC13146 Date Analyzed: 8/7/01  
Analyst: JJ Preparation Method: 3550 B Prep Batch: PB11233 Date Prepared: 8/7/01

| Param | Flag | Result | Units | Dilution | RDL |
|-------|------|--------|-------|----------|-----|
| DRO   |      | <50    | mg/Kg | 1        | 50  |

| Surrogate | Flag | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|-----------|------|--------|-------|----------|--------------|------------------|-----------------|
| n-Octane  |      | 244    | mg/Kg | 1        | 250          | 97               | 70 - 130        |

Sample: 176384 - MW-7 25-27'

Analysis: TPH GRO Analytical Method: 8015B QC Batch: QC13112 Date Analyzed: 8/6/01  
Analyst: CG Preparation Method: 5035 Prep Batch: PB11200 Date Prepared: 8/6/01

| Param | Flag | Result | Units | Dilution | RDL  |
|-------|------|--------|-------|----------|------|
| GRO   |      | <1     | mg/Kg | 10       | 0.10 |

| Surrogate | Flag | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|-----------|------|--------|-------|----------|--------------|------------------|-----------------|
| TFT       |      | 0.867  | mg/Kg | 10       | 0.10         | 84               | 70 - 130        |
| 4-BFB     |      | 0.827  | mg/Kg | 10       | 0.10         | 97               | 70 - 130        |

Sample: 176385 - MW-7 30-32'

Analysis: TPH DRO Analytical Method: Mod. 8015B QC Batch: QC13146 Date Analyzed: 8/7/01  
Analyst: JJ Preparation Method: 3550 B Prep Batch: PB11233 Date Prepared: 8/7/01

| Param | Flag | Result | Units | Dilution | RDL |
|-------|------|--------|-------|----------|-----|
| DRO   |      | <50    | mg/Kg | 1        | 50  |

| Surrogate | Flag | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|-----------|------|--------|-------|----------|--------------|------------------|-----------------|
| n-Octane  |      | 238    | mg/Kg | 1        | 250          | 95               | 70 - 130        |

Sample: 176385 - MW-7 30-32'

Analysis: TPH GRO Analytical Method: 8015B QC Batch: QC13112 Date Analyzed: 8/6/01  
Analyst: CG Preparation Method: 5035 Prep Batch: PB11200 Date Prepared: 8/6/01

| Param | Flag | Result | Units | Dilution | RDL  |
|-------|------|--------|-------|----------|------|
| GRO   |      | <1     | mg/Kg | 10       | 0.10 |

| Surrogate | Flag | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|-----------|------|--------|-------|----------|--------------|------------------|-----------------|
| TFT       |      | 0.829  | mg/Kg | 10       | 0.10         | 82               | 70 - 130        |
| 4-BFB     |      | 0.787  | mg/Kg | 10       | 0.10         | 80               | 70 - 130        |

Sample: 176386 - MW-7 35-37'

Analysis: TPH DRO Analytical Method: Mod. 8015B QC Batch: QC13146 Date Analyzed: 8/7/01  
Analyst: JJ Preparation Method: 3550 B Prep Batch: PB11233 Date Prepared: 8/7/01

| Param | Flag | Result | Units | Dilution | RDL |
|-------|------|--------|-------|----------|-----|
| DRO   |      | <50    | mg/Kg | 1        | 50  |

| Surrogate | Flag | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|-----------|------|--------|-------|----------|--------------|------------------|-----------------|
| n-Octane  |      | 238    | mg/Kg | 1        | 250          | 107              | 70 - 130        |

**Sample: 176386 - MW-7 35-37'**

Analysis: TPH GRO Analytical Method: 8015B QC Batch: QC13112 Date Analyzed: 8/6/01  
Analyst: CG Preparation Method: 5035 Prep Batch: PB11200 Date Prepared: 8/6/01

| Param | Flag | Result | Units | Dilution | RDL  |
|-------|------|--------|-------|----------|------|
| GRO   |      | <1     | mg/Kg | 10       | 0.10 |

| Surrogate | Flag | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|-----------|------|--------|-------|----------|--------------|------------------|-----------------|
| TFT       |      | 0.844  | mg/Kg | 10       | 0.10         | 82               | 70 - 130        |
| 4-BFB     |      | 0.784  | mg/Kg | 10       | 0.10         | 87               | 70 - 130        |

**Sample: 176387 - MW-7 40-42'**

Analysis: TPH DRO Analytical Method: Mod. 8015B QC Batch: QC13146 Date Analyzed: 8/7/01  
Analyst: JJ Preparation Method: 3550 B Prep Batch: PB11233 Date Prepared: 8/7/01

| Param | Flag | Result | Units | Dilution | RDL |
|-------|------|--------|-------|----------|-----|
| DRO   |      | <50    | mg/Kg | 1        | 50  |

| Surrogate | Flag | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|-----------|------|--------|-------|----------|--------------|------------------|-----------------|
| n-Octane  |      | 232    | mg/Kg | 1        | 250          | 92               | 70 - 130        |

**Sample: 176387 - MW-7 40-42'**

Analysis: TPH GRO Analytical Method: 8015B QC Batch: QC13112 Date Analyzed: 8/6/01  
Analyst: CG Preparation Method: 5035 Prep Batch: PB11200 Date Prepared: 8/6/01

| Param | Flag | Result | Units | Dilution | RDL  |
|-------|------|--------|-------|----------|------|
| GRO   |      | <1     | mg/Kg | 10       | 0.10 |

| Surrogate | Flag | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|-----------|------|--------|-------|----------|--------------|------------------|-----------------|
| TFT       |      | 0.784  | mg/Kg | 10       | 0.10         | 78               | 70 - 130        |
| 4-BFB     |      | 0.719  | mg/Kg | 10       | 0.10         | 81               | 70 - 130        |

**Sample: 176388 - MW-7 45-47'**

Analysis: TPH DRO Analytical Method: Mod. 8015B QC Batch: QC13146 Date Analyzed: 8/7/01  
Analyst: JJ Preparation Method: 3550 B Prep Batch: PB11233 Date Prepared: 8/7/01

| Param | Flag | Result | Units | Dilution | RDL |
|-------|------|--------|-------|----------|-----|
| DRO   |      | <50    | mg/Kg | 1        | 50  |

| Surrogate | Flag | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|-----------|------|--------|-------|----------|--------------|------------------|-----------------|
| n-Octane  |      | 226    | mg/Kg | 1        | 250          | 90               | 70 - 130        |

Sample: 176388 - MW-7 45-47'

Analysis: TPH GRO Analytical Method: 8015B QC Batch: QC13112 Date Analyzed: 8/6/01  
Analyst: CG Preparation Method: 5035 Prep Batch: PB11200 Date Prepared: 8/6/01

| Param | Flag | Result | Units | Dilution | RDL  |
|-------|------|--------|-------|----------|------|
| GRO   |      | <1     | mg/Kg | 10       | 0.10 |

| Surrogate | Flag | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|-----------|------|--------|-------|----------|--------------|------------------|-----------------|
| TFT       |      | 0.8    | mg/Kg | 10       | 0.10         | 79               | 70 - 130        |
| 4-BFB     |      | 0.754  | mg/Kg | 10       | 0.10         | 85               | 70 - 130        |

Sample: 176389 - MW-7 50-52'

Analysis: TPH DRO Analytical Method: Mod. 8015B QC Batch: QC13146 Date Analyzed: 8/7/01  
Analyst: JJ Preparation Method: 3550 B Prep Batch: PB11233 Date Prepared: 8/7/01

| Param | Flag | Result | Units | Dilution | RDL |
|-------|------|--------|-------|----------|-----|
| DRO   |      | <50    | mg/Kg | 1        | 50  |

| Surrogate | Flag | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|-----------|------|--------|-------|----------|--------------|------------------|-----------------|
| n-Octane  |      | 288    | mg/Kg | 1        | 250          | 115              | 70 - 130        |

Sample: 176389 - MW-7 50-52'

Analysis: TPH GRO Analytical Method: 8015B QC Batch: QC13112 Date Analyzed: 8/6/01  
Analyst: CG Preparation Method: 5035 Prep Batch: PB11200 Date Prepared: 8/6/01

| Param | Flag | Result | Units | Dilution | RDL  |
|-------|------|--------|-------|----------|------|
| GRO   |      | <1     | mg/Kg | 10       | 0.10 |

| Surrogate | Flag | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|-----------|------|--------|-------|----------|--------------|------------------|-----------------|
| TFT       |      | 0.832  | mg/Kg | 10       | 0.10         | 80               | 70 - 130        |
| 4-BFB     |      | 0.786  | mg/Kg | 10       | 0.10         | 92               | 70 - 130        |

Sample: 176390 - MW-7 55-57

Analysis: TPH DRO Analytical Method: Mod. 8015B QC Batch: QC13146 Date Analyzed: 8/7/01  
Analyst: JJ Preparation Method: 3550 B Prep Batch: PB11233 Date Prepared: 8/7/01

| Param | Flag | Result | Units | Dilution | RDL |
|-------|------|--------|-------|----------|-----|
| DRO   |      | 276    | mg/Kg | 1        | 50  |

| Surrogate | Flag | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|-----------|------|--------|-------|----------|--------------|------------------|-----------------|
| n-Octane  |      | 260    | mg/Kg | 1        | 250          | 104              | 70 - 130        |

**Sample: 176390 - MW-7 55-57**

Analysis: TPH GRO Analytical Method: 8015B QC Batch: QC13112 Date Analyzed: 8/6/01  
Analyst: CG Preparation Method: 5035 Prep Batch: PB11200 Date Prepared: 8/6/01

| Param | Flag | Result | Units | Dilution | RDL  |
|-------|------|--------|-------|----------|------|
| GRO   |      | <1     | mg/Kg | 10       | 0.10 |

| Surrogate | Flag | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|-----------|------|--------|-------|----------|--------------|------------------|-----------------|
| TFT       |      | 0.853  | mg/Kg | 10       | 0.10         | 84               | 70 - 130        |
| 4-BFB     |      | 0.802  | mg/Kg | 10       | 0.10         | 87               | 70 - 130        |

**Sample: 176391 - MW-7 60-62'**

Analysis: TPH DRO Analytical Method: Mod. 8015B QC Batch: QC13199 Date Analyzed: 8/8/01  
Analyst: JJ Preparation Method: 3550 B Prep Batch: PB11277 Date Prepared: 8/7/01

| Param | Flag | Result | Units | Dilution | RDL |
|-------|------|--------|-------|----------|-----|
| DRO   |      | <50    | mg/Kg | 1        | 50  |

| Surrogate | Flag | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|-----------|------|--------|-------|----------|--------------|------------------|-----------------|
| n-Octane  |      | 334    | mg/Kg | 1        | 250          | 133              | 70 - 130        |

**Sample: 176391 - MW-7 60-62'**

Analysis: TPH GRO Analytical Method: 8015B QC Batch: QC13113 Date Analyzed: 8/6/01  
Analyst: CG Preparation Method: 5035 Prep Batch: PB11201 Date Prepared: 8/6/01

| Param | Flag | Result | Units | Dilution | RDL  |
|-------|------|--------|-------|----------|------|
| GRO   |      | <1     | mg/Kg | 10       | 0.10 |

| Surrogate | Flag | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|-----------|------|--------|-------|----------|--------------|------------------|-----------------|
| TFT       |      | 0.784  | mg/Kg | 10       | 0.10         | 78               | 70 - 130        |
| 4-BFB     |      | 0.802  | mg/Kg | 10       | 0.10         | 80               | 70 - 130        |

**Sample: 176392 - MW-8 0-2'**

Analysis: TPH DRO Analytical Method: Mod. 8015B QC Batch: QC13199 Date Analyzed: 8/8/01  
Analyst: JJ Preparation Method: 3550 B Prep Batch: PB11277 Date Prepared: 8/7/01

| Param | Flag | Result | Units | Dilution | RDL |
|-------|------|--------|-------|----------|-----|
| DRO   |      | <50    | mg/Kg | 1        | 50  |

| Surrogate | Flag | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|-----------|------|--------|-------|----------|--------------|------------------|-----------------|
| n-Octane  |      | 341    | mg/Kg | 1        | 250          | 136              | 70 - 130        |

Sample: 176392 - MW-8 0-2'

Analysis: TPH GRO Analytical Method: 8015B QC Batch: QC13113 Date Analyzed: 8/6/01  
Analyst: CG Preparation Method: 5035 Prep Batch: PB11201 Date Prepared: 8/6/01

| Param | Flag | Result | Units | Dilution | RDL  |
|-------|------|--------|-------|----------|------|
| GRO   |      | <1     | mg/Kg | 10       | 0.10 |

| Surrogate | Flag | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|-----------|------|--------|-------|----------|--------------|------------------|-----------------|
| TFT       |      | 0.843  | mg/Kg | 10       | 0.10         | 84               | 70 - 130        |
| 4-BFB     |      | 0.802  | mg/Kg | 10       | 0.10         | 80               | 70 - 130        |

Sample: 176393 - MW-8 5-7'

Analysis: TPH DRO Analytical Method: Mod. 8015B QC Batch: QC13199 Date Analyzed: 8/8/01  
Analyst: JJ Preparation Method: 3550 B Prep Batch: PB11277 Date Prepared: 8/7/01

| Param | Flag | Result | Units | Dilution | RDL |
|-------|------|--------|-------|----------|-----|
| DRO   |      | <50    | mg/Kg | 1        | 50  |

| Surrogate | Flag | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|-----------|------|--------|-------|----------|--------------|------------------|-----------------|
| n-Octane  |      | 365    | mg/Kg | 1        | 250          | 146              | 70 - 130        |

Sample: 176393 - MW-8 5-7'

Analysis: TPH GRO Analytical Method: 8015B QC Batch: QC13113 Date Analyzed: 8/6/01  
Analyst: CG Preparation Method: 5035 Prep Batch: PB11201 Date Prepared: 8/6/01

| Param | Flag | Result | Units | Dilution | RDL  |
|-------|------|--------|-------|----------|------|
| GRO   |      | <1     | mg/Kg | 10       | 0.10 |

| Surrogate | Flag | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|-----------|------|--------|-------|----------|--------------|------------------|-----------------|
| TFT       |      | 0.854  | mg/Kg | 10       | 0.10         | 85               | 70 - 130        |
| 4-BFB     |      | 0.849  | mg/Kg | 10       | 0.10         | 84               | 70 - 130        |

Sample: 176394 - MW-8 10-12'

Analysis: TPH DRO Analytical Method: Mod. 8015B QC Batch: QC13199 Date Analyzed: 8/8/01  
Analyst: JJ Preparation Method: 3550 B Prep Batch: PB11277 Date Prepared: 8/7/01

| Param | Flag | Result | Units | Dilution | RDL |
|-------|------|--------|-------|----------|-----|
| DRO   |      | <50    | mg/Kg | 1        | 50  |

| Surrogate | Flag | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|-----------|------|--------|-------|----------|--------------|------------------|-----------------|
| n-Octane  |      | 300    | mg/Kg | 1        | 250          | 200              | 70 - 130        |

Sample: 176394 - MW-8 10-12'

Analysis: TPH GRO Analytical Method: 8015B QC Batch: QC13113 Date Analyzed: 8/6/01  
Analyst: CG Preparation Method: 5035 Prep Batch: PB11201 Date Prepared: 8/6/01

| Param | Flag | Result | Units | Dilution | RDL  |
|-------|------|--------|-------|----------|------|
| GRO   |      | <1     | mg/Kg | 10       | 0.10 |

| Surrogate | Flag | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|-----------|------|--------|-------|----------|--------------|------------------|-----------------|
| TFT       |      | 0.843  | mg/Kg | 10       | 0.10         | 84               | 70 - 130        |
| 4-BFB     |      | 0.856  | mg/Kg | 10       | 0.10         | 85               | 70 - 130        |

Sample: 176395 - MW-8 15-17'

Analysis: TPH DRO Analytical Method: Mod. 8015B QC Batch: QC13199 Date Analyzed: 8/8/01  
Analyst: JJ Preparation Method: 3550 B Prep Batch: PB11277 Date Prepared: 8/7/01

| Param | Flag | Result | Units | Dilution | RDL |
|-------|------|--------|-------|----------|-----|
| DRO   |      | <50    | mg/Kg | 1        | 50  |

| Surrogate | Flag | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|-----------|------|--------|-------|----------|--------------|------------------|-----------------|
| n-Octane  |      | 363    | mg/Kg | 1        | 250          | 145              | 70 - 130        |

Sample: 176395 - MW-8 15-17'

Analysis: TPH GRO Analytical Method: 8015B QC Batch: QC13113 Date Analyzed: 8/6/01  
Analyst: CG Preparation Method: 5035 Prep Batch: PB11201 Date Prepared: 8/6/01

| Param | Flag | Result | Units | Dilution | RDL  |
|-------|------|--------|-------|----------|------|
| GRO   |      | <1     | mg/Kg | 10       | 0.10 |

| Surrogate | Flag | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|-----------|------|--------|-------|----------|--------------|------------------|-----------------|
| TFT       |      | 0.783  | mg/Kg | 10       | 0.10         | 78               | 70 - 130        |
| 4-BFB     |      | 0.859  | mg/Kg | 10       | 0.10         | 85               | 70 - 130        |

Sample: 176396 - MW-8 20-22'

Analysis: TPH DRO Analytical Method: Mod. 8015B QC Batch: QC13199 Date Analyzed: 8/8/01  
Analyst: JJ Preparation Method: 3550 B Prep Batch: PB11277 Date Prepared: 8/7/01

| Param | Flag | Result | Units | Dilution | RDL |
|-------|------|--------|-------|----------|-----|
| DRO   |      | <50    | mg/Kg | 1        | 50  |

| Surrogate | Flag | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|-----------|------|--------|-------|----------|--------------|------------------|-----------------|
| n-Octane  |      | 324    | mg/Kg | 1        | 250          | 123              | 70 - 130        |



Sample: 176396 - MW-8 20-22'

Analysis: TPH GRO Analytical Method: 8015B QC Batch: QC13113 Date Analyzed: 8/6/01  
Analyst: CG Preparation Method: 5035 Prep Batch: PB11201 Date Prepared: 8/6/01

| Param | Flag | Result | Units | Dilution | RDL  |
|-------|------|--------|-------|----------|------|
| GRO   |      | <1     | mg/Kg | 10       | 0.10 |

| Surrogate | Flag | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|-----------|------|--------|-------|----------|--------------|------------------|-----------------|
| TFT       |      | 0.863  | mg/Kg | 10       | 0.10         | 86               | 70 - 130        |
| 4-BFB     |      | 0.891  | mg/Kg | 10       | 0.10         | 89               | 70 - 130        |

Sample: 176397 - MW-8 25-27'

Analysis: TPH DRO Analytical Method: Mod. 8015B QC Batch: QC13199 Date Analyzed: 8/8/01  
Analyst: JJ Preparation Method: 3550 B Prep Batch: PB11277 Date Prepared: 8/7/01

| Param | Flag | Result | Units | Dilution | RDL |
|-------|------|--------|-------|----------|-----|
| DRO   |      | 568    | mg/Kg | 1        | 50  |

| Surrogate | Flag | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|-----------|------|--------|-------|----------|--------------|------------------|-----------------|
| n-Octane  |      | 455    | mg/Kg | 1        | 250          | 182              | 70 - 130        |

Sample: 176397 - MW-8 25-27'

Analysis: TPH GRO Analytical Method: 8015B QC Batch: QC13113 Date Analyzed: 8/6/01  
Analyst: CG Preparation Method: 5035 Prep Batch: PB11201 Date Prepared: 8/6/01

| Param | Flag | Result | Units | Dilution | RDL  |
|-------|------|--------|-------|----------|------|
| GRO   |      | <1     | mg/Kg | 10       | 0.10 |

| Surrogate | Flag | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|-----------|------|--------|-------|----------|--------------|------------------|-----------------|
| TFT       |      | 0.862  | mg/Kg | 10       | 0.10         | 86               | 70 - 130        |
| 4-BFB     |      | 0.907  | mg/Kg | 10       | 0.10         | 90               | 70 - 130        |

Sample: 176398 - MW-8 30-32'

Analysis: TPH DRO Analytical Method: Mod. 8015B QC Batch: QC13199 Date Analyzed: 8/8/01  
Analyst: JJ Preparation Method: 3550 B Prep Batch: PB11277 Date Prepared: 8/7/01

| Param | Flag | Result | Units | Dilution | RDL |
|-------|------|--------|-------|----------|-----|
| DRO   |      | 569    | mg/Kg | 1        | 50  |

| Surrogate | Flag | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|-----------|------|--------|-------|----------|--------------|------------------|-----------------|
| n-Octane  |      | 451    | mg/Kg | 1        | 250          | 140              | 70 - 130        |

Sample: 176398 - MW-8 30-32'

Analysis: TPH GRO Analytical Method: 8015B QC Batch: QC13113 Date Analyzed: 8/6/01  
Analyst: CG Preparation Method: 5035 Prep Batch: PB11201 Date Prepared: 8/6/01

| Param | Flag | Result | Units | Dilution | RDL  |
|-------|------|--------|-------|----------|------|
| GRO   |      | <1     | mg/Kg | 10       | 0.10 |

| Surrogate | Flag | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|-----------|------|--------|-------|----------|--------------|------------------|-----------------|
| TFT       |      | 0.773  | mg/Kg | 10       | 0.10         | 77               | 70 - 130        |
| 4-BFB     |      | 0.793  | mg/Kg | 10       | 0.10         | 79               | 70 - 130        |

Sample: 176399 - MW-8 35-37'

Analysis: TPH DRO Analytical Method: Mod. 8015B QC Batch: QC13199 Date Analyzed: 8/8/01  
Analyst: JJ Preparation Method: 3550 B Prep Batch: PB11277 Date Prepared: 8/7/01

| Param | Flag | Result | Units | Dilution | RDL |
|-------|------|--------|-------|----------|-----|
| DRO   |      | 333    | mg/Kg | 1        | 50  |

| Surrogate | Flag | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|-----------|------|--------|-------|----------|--------------|------------------|-----------------|
| n-Octane  |      | 396    | mg/Kg | 1        | 250          | 158              | 70 - 130        |

Sample: 176399 - MW-8 35-37'

Analysis: TPH GRO Analytical Method: 8015B QC Batch: QC13113 Date Analyzed: 8/6/01  
Analyst: CG Preparation Method: 5035 Prep Batch: PB11201 Date Prepared: 8/6/01

| Param | Flag | Result | Units | Dilution | RDL  |
|-------|------|--------|-------|----------|------|
| GRO   |      | <1     | mg/Kg | 10       | 0.10 |

| Surrogate | Flag | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|-----------|------|--------|-------|----------|--------------|------------------|-----------------|
| TFT       |      | 0.671  | mg/Kg | 10       | 0.10         | 67               | 70 - 130        |
| 4-BFB     |      | 0.744  | mg/Kg | 10       | 0.10         | 74               | 70 - 130        |

Sample: 176400 - MW-8 40-42'

Analysis: TPH DRO Analytical Method: Mod. 8015B QC Batch: QC13199 Date Analyzed: 8/8/01  
Analyst: JJ Preparation Method: 3550 B Prep Batch: PB11277 Date Prepared: 8/7/01

| Param | Flag | Result | Units | Dilution | RDL |
|-------|------|--------|-------|----------|-----|
| DRO   |      | 124    | mg/Kg | 1        | 50  |

| Surrogate | Flag | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|-----------|------|--------|-------|----------|--------------|------------------|-----------------|
| n-Octane  |      | 346    | mg/Kg | 1        | 250          | 138              | 70 - 130        |

\*Poor surrogate recovery due to matrix difficulties.

Sample: 176400 - MW-8 40-42'

Analysis: TPH GRO Analytical Method: 8015B QC Batch: QC13113 Date Analyzed: 8/6/01  
Analyst: CG Preparation Method: 5035 Prep Batch: PB11201 Date Prepared: 8/6/01

| Param | Flag | Result | Units | Dilution | RDL  |
|-------|------|--------|-------|----------|------|
| GRO   |      | <1     | mg/Kg | 10       | 0.10 |

| Surrogate | Flag | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|-----------|------|--------|-------|----------|--------------|------------------|-----------------|
| TFT       |      | 0.653  | mg/Kg | 10       | 0.10         | 65               | 70 - 130        |
| 4-BFB     |      | 0.745  | mg/Kg | 10       | 0.10         | 74               | 70 - 130        |

Sample: 176401 - MW-8 45-47'

Analysis: TPH DRO Analytical Method: Mod. 8015B QC Batch: QC13199 Date Analyzed: 8/8/01  
Analyst: JJ Preparation Method: 3550 B Prep Batch: PB11277 Date Prepared: 8/7/01

| Param | Flag | Result | Units | Dilution | RDL |
|-------|------|--------|-------|----------|-----|
| DRO   |      | <50    | mg/Kg | 1        | 50  |

| Surrogate | Flag | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|-----------|------|--------|-------|----------|--------------|------------------|-----------------|
| n-Octane  |      | 360    | mg/Kg | 1        | 250          | 144              | 70 - 130        |

Sample: 176401 - MW-8 45-47'

Analysis: TPH GRO Analytical Method: 8015B QC Batch: QC13113 Date Analyzed: 8/6/01  
Analyst: CG Preparation Method: 5035 Prep Batch: PB11201 Date Prepared: 8/6/01

| Param | Flag | Result | Units | Dilution | RDL  |
|-------|------|--------|-------|----------|------|
| GRO   |      | <1     | mg/Kg | 10       | 0.10 |

| Surrogate | Flag | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|-----------|------|--------|-------|----------|--------------|------------------|-----------------|
| TFT       |      | 0.76   | mg/Kg | 10       | 0.10         | 76               | 70 - 130        |
| 4-BFB     |      | 0.828  | mg/Kg | 10       | 0.10         | 82               | 70 - 130        |

Sample: 176402 - MW-8 50-52'

Analysis: TPH DRO Analytical Method: Mod. 8015B QC Batch: QC13199 Date Analyzed: 8/8/01  
Analyst: JJ Preparation Method: 3550 B Prep Batch: PB11277 Date Prepared: 8/7/01

| Param | Flag | Result | Units | Dilution | RDL |
|-------|------|--------|-------|----------|-----|
| DRO   |      | <50    | mg/Kg | 1        | 50  |

| Surrogate | Flag | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|-----------|------|--------|-------|----------|--------------|------------------|-----------------|
| n-Octane  |      | 360    | mg/Kg | 1        | 250          | 144              | 70 - 130        |

Poor surrogate recovery due to matrix difficulties.

Sample: 176402 - MW-8 50-52'

Analysis: TPH GRO Analytical Method: 8015B QC Batch: QC13113 Date Analyzed: 8/6/01  
Analyst: CG Preparation Method: 5035 Prep Batch: PB11201 Date Prepared: 8/6/01

| Param | Flag | Result | Units | Dilution | RDL  |
|-------|------|--------|-------|----------|------|
| GRO   |      | <1     | mg/Kg | 10       | 0.10 |

| Surrogate | Flag | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|-----------|------|--------|-------|----------|--------------|------------------|-----------------|
| TFT       |      | 0.763  | mg/Kg | 10       | 0.10         | 76               | 70 - 130        |
| 4-BFB     |      | 0.823  | mg/Kg | 10       | 0.10         | 82               | 70 - 130        |

Sample: 176403 - MW-8 55-57'

Analysis: TPH DRO Analytical Method: Mod. 8015B QC Batch: QC13199 Date Analyzed: 8/8/01  
Analyst: JJ Preparation Method: 3550 B Prep Batch: PB11277 Date Prepared: 8/7/01

| Param | Flag | Result | Units | Dilution | RDL |
|-------|------|--------|-------|----------|-----|
| DRO   |      | <50    | mg/Kg | 1        | 50  |

| Surrogate | Flag | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|-----------|------|--------|-------|----------|--------------|------------------|-----------------|
| n-Octane  |      | 380    | mg/Kg | 1        | 250          | 152              | 70 - 130        |

Sample: 176403 - MW-8 55-57'

Analysis: TPH GRO Analytical Method: 8015B QC Batch: QC13113 Date Analyzed: 8/6/01  
Analyst: CG Preparation Method: 5035 Prep Batch: PB11201 Date Prepared: 8/6/01

| Param | Flag | Result | Units | Dilution | RDL  |
|-------|------|--------|-------|----------|------|
| GRO   |      | <1     | mg/Kg | 10       | 0.10 |

| Surrogate | Flag | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|-----------|------|--------|-------|----------|--------------|------------------|-----------------|
| TFT       |      | 0.727  | mg/Kg | 10       | 0.10         | 72               | 70 - 130        |
| 4-BFB     |      | 0.766  | mg/Kg | 10       | 0.10         | 76               | 70 - 130        |

Sample: 176404 - MW-8 60-62'

Analysis: TPH DRO Analytical Method: Mod. 8015B QC Batch: QC13199 Date Analyzed: 8/8/01  
Analyst: JJ Preparation Method: 3550 B Prep Batch: PB11277 Date Prepared: 8/7/01

| Param | Flag | Result | Units | Dilution | RDL |
|-------|------|--------|-------|----------|-----|
| DRO   |      | <50    | mg/Kg | 1        | 50  |

| Surrogate | Flag | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|-----------|------|--------|-------|----------|--------------|------------------|-----------------|
| n-Octane  |      | 371    | mg/Kg | 1        | 250          | 149              | 70 - 130        |

Sample: 176404 - MW-8 60-62'

Analysis: TPH GRO Analytical Method: 8015B QC Batch: QC13113 Date Analyzed: 8/6/01  
Analyst: CG Preparation Method: 5035 Prep Batch: PB11201 Date Prepared: 8/6/01

| Param | Flag | Result | Units | Dilution | RDL  |
|-------|------|--------|-------|----------|------|
| GRO   |      | <1     | mg/Kg | 10       | 0.10 |

| Surrogate | Flag | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|-----------|------|--------|-------|----------|--------------|------------------|-----------------|
| TFT       |      | 0.76   | mg/Kg | 10       | 0.10         | 76               | 70 - 130        |
| 4-BFB     |      | 0.782  | mg/Kg | 10       | 0.10         | 78               | 70 - 130        |

Sample: 176405 - MW-8 65-67'

Analysis: TPH DRO Analytical Method: Mod. 8015B QC Batch: QC13199 Date Analyzed: 8/8/01  
Analyst: JJ Preparation Method: 3550 B Prep Batch: PB11277 Date Prepared: 8/7/01

| Param | Flag | Result | Units | Dilution | RDL |
|-------|------|--------|-------|----------|-----|
| DRO   |      | <50    | mg/Kg | 1        | 50  |

| Surrogate | Flag | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|-----------|------|--------|-------|----------|--------------|------------------|-----------------|
| n-Octane  |      | 337    | mg/Kg | 1        | 250          | 134              | 70 - 130        |

Sample: 176405 - MW-8 65-67'

Analysis: TPH GRO Analytical Method: 8015B QC Batch: QC13113 Date Analyzed: 8/6/01  
Analyst: CG Preparation Method: 5035 Prep Batch: PB11201 Date Prepared: 8/6/01

| Param | Flag | Result | Units | Dilution | RDL  |
|-------|------|--------|-------|----------|------|
| GRO   |      | <1     | mg/Kg | 10       | 0.10 |

| Surrogate | Flag | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|-----------|------|--------|-------|----------|--------------|------------------|-----------------|
| TFT       |      | 0.745  | mg/Kg | 10       | 0.10         | 74               | 70 - 130        |
| 4-BFB     |      | 0.79   | mg/Kg | 10       | 0.10         | 79               | 70 - 130        |

## Quality Control Report Method Blank

Method Blank      QCBatch:    QC13111

| Param | Flag | Results | Units | Reporting Limit |
|-------|------|---------|-------|-----------------|
| GRO   |      | <1      | mg/Kg | 0.10            |

| Surrogate | Flag | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|-----------|------|--------|-------|----------|--------------|------------------|-----------------|
| TFT       |      | 0.969  | mg/Kg | 10       | 0.10         | 96               | 70 - 130        |
| 4-BFB     |      | 1.08   | mg/Kg | 10       | 0.10         | 108              | 70 - 130        |

Method Blank      QCBatch:    QC13112

| Param | Flag | Results | Units | Reporting Limit |
|-------|------|---------|-------|-----------------|
| GRO   |      | <1      | mg/Kg | 0.10            |

| Surrogate | Flag | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|-----------|------|--------|-------|----------|--------------|------------------|-----------------|
| TFT       |      | 0.953  | mg/Kg | 10       | 0.10         | 94               | 70 - 130        |
| 4-BFB     |      | 0.803  | mg/Kg | 10       | 0.10         | 101              | 70 - 130        |

Method Blank      QCBatch:    QC13113

| Param | Flag | Results | Units | Reporting Limit |
|-------|------|---------|-------|-----------------|
| GRO   |      | <1      | mg/Kg | 0.10            |

| Surrogate | Flag | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|-----------|------|--------|-------|----------|--------------|------------------|-----------------|
| TFT       |      | 0.922  | mg/Kg | 10       | 0.10         | 92               | 70 - 130        |
| 4-BFB     |      | 1.02   | mg/Kg | 10       | 0.10         | 102              | 70 - 130        |

Method Blank      QCBatch:    QC13145

| Param | Flag | Results | Units | Reporting Limit |
|-------|------|---------|-------|-----------------|
| GRO   |      | <10     | mg/Kg | 50              |

| Surrogate | Flag | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|-----------|------|--------|-------|----------|--------------|------------------|-----------------|
| n-Octane  |      | 28.7   | mg/Kg | 1        | 250          | 68               | 70 - 130        |

Method Blank QCBatch: QC13146

| Param | Flag | Results | Units | Reporting Limit |
|-------|------|---------|-------|-----------------|
| DRO   |      | <50     | mg/Kg | 50              |

| Surrogate | Flag | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|-----------|------|--------|-------|----------|--------------|------------------|-----------------|
| n-Octane  |      | 31.1   | mg/Kg | 1        | 250          | 152              | 70 - 130        |

Method Blank QCBatch: QC13199

| Param | Flag | Results | Units | Reporting Limit |
|-------|------|---------|-------|-----------------|
| DRO   |      | <50     | mg/Kg | 50              |

| Surrogate | Flag | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|-----------|------|--------|-------|----------|--------------|------------------|-----------------|
| n-Octane  |      | 227    | mg/Kg | 1        | 250          | 90               | 70 - 130        |

## Quality Control Report Lab Control Spikes and Duplicate Spikes

Laboratory Control Spikes QCBatch: QC13111

| Param | LCS Result | LCSD Result | Units | Dil. | Spike Amount Added | Matrix Result | % Rec | RPD | % Rec Limit | RPD Limit |
|-------|------------|-------------|-------|------|--------------------|---------------|-------|-----|-------------|-----------|
| GRO   | 1.55       |             | mg/Kg | 10   | 1                  | <1            | 82    |     | 70 - 130    |           |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Surrogate | LCS Result | LCSD Result | Units | Dilution | Spike Amount | LCS % Rec | LCSD % Rec | Recovery Limits |
|-----------|------------|-------------|-------|----------|--------------|-----------|------------|-----------------|
| TFT       | 0.387      |             | mg/Kg | 10       | 0.10         | 88        |            | 70 - 130        |
| 4-BFB     | 0.237      |             | mg/Kg | 10       | 0.10         | 93        |            | 70 - 130        |

Laboratory Control Spikes QCBatch: QC13112

| Param | LCS Result | LCSD Result | Units | Dil. | Spike Amount Added | Matrix Result | % Rec | RPD | % Rec Limit | RPD Limit |
|-------|------------|-------------|-------|------|--------------------|---------------|-------|-----|-------------|-----------|
| GRO   | 1.55       |             | mg/Kg | 10   | 1                  | <1            | 82    |     | 70 - 130    | 20        |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Surrogate | LCS<br>Result | LCSD<br>Result | Units | Dilution | Spike<br>Amount | LCS<br>% Rec | LCSD<br>% Rec | Recovery<br>Limits |
|-----------|---------------|----------------|-------|----------|-----------------|--------------|---------------|--------------------|
| TFT       | 0.878         | 0.896          | mg/Kg | 10       | 0.10            | 87           | 89            | 70 - 130           |
| 4-BFB     | 0.972         | 0.961          | mg/Kg | 10       | 0.10            | 97           | 96            | 70 - 130           |

### Laboratory Control Spikes

QCBatch: QC13113

| Param | LCS<br>Result | LCSD<br>Result | Units | Dil. | Spike<br>Amount<br>Added | Matrix<br>Result | % Rec | RPD | % Rec<br>Limit | RPD<br>Limit |
|-------|---------------|----------------|-------|------|--------------------------|------------------|-------|-----|----------------|--------------|
| GRO   | 8.58          | 8.73           | mg/Kg | 10   | 1                        | <1               | 85    | 1   | 70 - 130       | 20           |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Surrogate | LCS<br>Result | LCSD<br>Result | Units | Dilution | Spike<br>Amount | LCS<br>% Rec | LCSD<br>% Rec | Recovery<br>Limits |
|-----------|---------------|----------------|-------|----------|-----------------|--------------|---------------|--------------------|
| TFT       | 1.03          | 0.829          | mg/Kg | 10       | 0.10            | 103          | 82            | 70 - 130           |
| 4-BFB     | 0.955         | 0.945          | mg/Kg | 10       | 0.10            | 95           | 94            | 70 - 130           |

### Laboratory Control Spikes

QCBatch: QC13145

| Param | LCS<br>Result | LCSD<br>Result | Units | Dil. | Spike<br>Amount<br>Added | Matrix<br>Result | % Rec | RPD | % Rec<br>Limit | RPD<br>Limit |
|-------|---------------|----------------|-------|------|--------------------------|------------------|-------|-----|----------------|--------------|
| DRO   | 235           | 229            | mg/Kg | 1    | 250                      | <50              | 94    | 2   | 70 - 130       | 20           |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Surrogate | LCS<br>Result | LCSD<br>Result | Units | Dilution | Spike<br>Amount | LCS<br>% Rec | LCSD<br>% Rec | Recovery<br>Limits |
|-----------|---------------|----------------|-------|----------|-----------------|--------------|---------------|--------------------|
| n-Octane  | 219           | 222            | mg/Kg | 1        | 250             | 87           | 88            | 70 - 130           |

### Laboratory Control Spikes

QCBatch: QC13146

| Param | LCS<br>Result | LCSD<br>Result | Units | Dil. | Spike<br>Amount<br>Added | Matrix<br>Result | % Rec | RPD | % Rec<br>Limit | RPD<br>Limit |
|-------|---------------|----------------|-------|------|--------------------------|------------------|-------|-----|----------------|--------------|
| DRO   | 358           | 280            | mg/Kg | 1    | 250                      | <50              | 103   | 8   | 70 - 130       | 20           |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Surrogate | LCS<br>Result | LCSD<br>Result | Units | Dilution | Spike<br>Amount | LCS<br>% Rec | LCSD<br>% Rec | Recovery<br>Limits |
|-----------|---------------|----------------|-------|----------|-----------------|--------------|---------------|--------------------|
| n-Octane  | 330           | 351            | mg/Kg | 1        | 250             | 132          | 140           | 70 - 130           |

### Laboratory Control Spikes

QCBatch: QC13199



| Param | LCS Result | LCSD Result | Units | Dil. | Spike Amount Added | Matrix Result | % Rec | RPD | % Rec Limit | RPD Limit |
|-------|------------|-------------|-------|------|--------------------|---------------|-------|-----|-------------|-----------|
| DRO   | 267        | 300         | mg/Kg | 1    | 250                | <50           | 106   | 11  | 70 - 130    | 20        |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Surrogate | LCS Result | LCSD Result | Units | Dilution | Spike Amount | LCS % Rec | LCSD % Rec | Recovery Limits |
|-----------|------------|-------------|-------|----------|--------------|-----------|------------|-----------------|
| n-Octane  | 384        | 493         | mg/Kg | 1        | 250          | 153       | 197        | 70 - 130        |

## Quality Control Report Matrix Spikes and Duplicate Spikes

Matrix Spikes      QCBatch:    QC13111

| Param | MS Result | MSD Result | Units | Dil. | Spike Amount Added | Matrix Result | % Rec | RPD | % Rec Limit | RPD Limit |
|-------|-----------|------------|-------|------|--------------------|---------------|-------|-----|-------------|-----------|
| GRO   | <1        | <1         | mg/Kg | 10   | 1                  | <1            | 99    | 14  | 70 - 130    | 20        |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Surrogate | MS Result | MSD Result | Units | Dilution | Spike Amount | MS % Rec | MSD % Rec | Recovery Limits |
|-----------|-----------|------------|-------|----------|--------------|----------|-----------|-----------------|
| TFT       | 0.978     | 0.782      | mg/Kg | 10       | 0.10         | 97       | 78        | 70 - 130        |
| 4-BFB     | 0.90      | 0.834      | mg/Kg | 10       | 0.10         | 90       | 83        | 70 - 130        |

Matrix Spikes      QCBatch:    QC13112

| Param | MS Result | MSD Result | Units | Dil. | Spike Amount Added | Matrix Result | % Rec | RPD | % Rec Limit | RPD Limit |
|-------|-----------|------------|-------|------|--------------------|---------------|-------|-----|-------------|-----------|
| GRO   | <1        | <1         | mg/Kg | 10   | 1                  | <1            | 83    | 1   | 70 - 130    | 20        |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Surrogate | MS Result | MSD Result | Units | Dilution | Spike Amount | MS % Rec | MSD % Rec | Recovery Limits |
|-----------|-----------|------------|-------|----------|--------------|----------|-----------|-----------------|
| TFT       | 0.841     | 0.953      | mg/Kg | 10       | 0.10         | 84       | 95        | 70 - 130        |
| 4-BFB     | 0.779     | 0.804      | mg/Kg | 10       | 0.10         | 77       | 80        | 70 - 130        |

Matrix Spikes      QCBatch:    QC13113

| Param | MS Result | MSD Result | Units | Dil. | Spike Amount Added | Matrix Result | % Rec | RPD | % Rec Limit | RPD Limit |
|-------|-----------|------------|-------|------|--------------------|---------------|-------|-----|-------------|-----------|
| GRO   | 0.10      | 0.06       | mg/Kg | 10   | 1                  | <1            | 94    | 6   | 70 - 130    | 20        |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Surrogate | MS<br>Result | MSD<br>Result | Units | Dilution | Spike<br>Amount | MS<br>% Rec | MSD<br>% Rec | Recovery<br>Limits |
|-----------|--------------|---------------|-------|----------|-----------------|-------------|--------------|--------------------|
| TFT       | 0.814        | 0.813         | mg/Kg | 10       | 0.10            | 81          | 81           | 70 - 130           |
| 4-BFB     | 0.902        | 0.903         | mg/Kg | 10       | 0.10            | 90          | 90           | 70 - 130           |

Matrix Spikes QC Batch: QC13145

| Param | MS<br>Result | MSD<br>Result | Units | Dil. | Spike<br>Amount<br>Added | Matrix<br>Result | % Rec | RPD | % Rec<br>Limit | RPD<br>Limit |
|-------|--------------|---------------|-------|------|--------------------------|------------------|-------|-----|----------------|--------------|
| DRO   | 265          | 279           | mg/Kg | 1    | 250                      | <50              | 106   | 5   | 70 - 130       | 20           |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Surrogate | MS<br>Result | MSD<br>Result | Units | Dilution | Spike<br>Amount | MS<br>% Rec | MSD<br>% Rec | Recovery<br>Limits |
|-----------|--------------|---------------|-------|----------|-----------------|-------------|--------------|--------------------|
| n-Octane  | 239          | 254           | mg/Kg | 1        | 250             | 95          | 101          | 70 - 130           |

Matrix Spikes QC Batch: QC13146

| Param | MS<br>Result | MSD<br>Result | Units | Dil. | Spike<br>Amount<br>Added | Matrix<br>Result | % Rec | RPD | % Rec<br>Limit | RPD<br>Limit |
|-------|--------------|---------------|-------|------|--------------------------|------------------|-------|-----|----------------|--------------|
| DRO   | 231          | 251           | mg/Kg | 1    | 250                      | <50              | 92    | 8   | 70 - 130       | 20           |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Surrogate | MS<br>Result | MSD<br>Result | Units | Dilution | Spike<br>Amount | MS<br>% Rec | MSD<br>% Rec | Recovery<br>Limits |
|-----------|--------------|---------------|-------|----------|-----------------|-------------|--------------|--------------------|
| n-Octane  | 226          | 240           | mg/Kg | 1        | 250             | 90          | 96           | 70 - 130           |

Matrix Spikes QC Batch: QC13199

| Param | MS<br>Result | MSD<br>Result | Units | Dil. | Spike<br>Amount<br>Added | Matrix<br>Result | % Rec | RPD | % Rec<br>Limit | RPD<br>Limit |
|-------|--------------|---------------|-------|------|--------------------------|------------------|-------|-----|----------------|--------------|
| DRO   | 312          | 269           | mg/Kg | 1    | 250                      | <50              | 124   | 14  | 70 - 130       | 20           |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Surrogate | MS<br>Result | MSD<br>Result | Units | Dilution | Spike<br>Amount | MS<br>% Rec | MSD<br>% Rec | Recovery<br>Limits |
|-----------|--------------|---------------|-------|----------|-----------------|-------------|--------------|--------------------|
| n-Octane  | 169          | 182           | mg/Kg | 1        | 250             | 187         | 132          | 70 - 130           |

Quality Control Report  
Continuing Calibration Verification Standards

CCV (1) QCBatch: QC13111

| Param | Flag | Units | CCVs<br>True<br>Conc. | CCVs<br>Found<br>Conc. | CCVs<br>Percent<br>Recovery | Percent<br>Recovery<br>Limits | Date<br>Analyzed |
|-------|------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| GRO   |      | mg/Kg | 1                     | 0.882                  | 88                          | 75 - 125                      | 8/6/01           |

CCV (2) QCBatch: QC13111

| Param | Flag | Units | CCVs<br>True<br>Conc. | CCVs<br>Found<br>Conc. | CCVs<br>Percent<br>Recovery | Percent<br>Recovery<br>Limits | Date<br>Analyzed |
|-------|------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| GRO   |      | mg/Kg | 1                     | 0.908                  | 90                          | 75 - 125                      | 8/6/01           |

ICV (1) QCBatch: QC13111

| Param | Flag | Units | CCVs<br>True<br>Conc. | CCVs<br>Found<br>Conc. | CCVs<br>Percent<br>Recovery | Percent<br>Recovery<br>Limits | Date<br>Analyzed |
|-------|------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| GRO   |      | mg/Kg | 1                     | 0.928                  | 92                          | 75 - 125                      | 8/6/01           |

CCV (1) QCBatch: QC13112

| Param | Flag | Units | CCVs<br>True<br>Conc. | CCVs<br>Found<br>Conc. | CCVs<br>Percent<br>Recovery | Percent<br>Recovery<br>Limits | Date<br>Analyzed |
|-------|------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| GRO   |      | mg/Kg | 1                     | 0.931                  | 93                          | 75 - 125                      | 8/6/01           |

CCV (2) QCBatch: QC13112

| Param | Flag | Units | CCVs<br>True<br>Conc. | CCVs<br>Found<br>Conc. | CCVs<br>Percent<br>Recovery | Percent<br>Recovery<br>Limits | Date<br>Analyzed |
|-------|------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| GRO   |      | mg/Kg | 1                     | 0.883                  | 88                          | 75 - 125                      | 8/6/01           |

ICV (1) QCBatch: QC13112

| Param | Flag | Units | CCVs<br>True<br>Conc. | CCVs<br>Found<br>Conc. | CCVs<br>Percent<br>Recovery | Percent<br>Recovery<br>Limits | Date<br>Analyzed |
|-------|------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| GRO   |      | mg/Kg | 1                     | 0.908                  | 90                          | 75 - 125                      | 8/6/01           |

CCV (1) QCBatch: QC13113

| Param | Flag | Units | CCVs<br>True<br>Conc. | CCVs<br>Found<br>Conc. | CCVs<br>Percent<br>Recovery | Percent<br>Recovery<br>Limits | Date<br>Analyzed |
|-------|------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| GRO   |      | mg/Kg | 1                     | 0.85                   | 85                          | 75 - 125                      | 8/6/01           |

CCV (2) QCBatch: QC13113

| Param | Flag | Units | CCVs<br>True<br>Conc. | CCVs<br>Found<br>Conc. | CCVs<br>Percent<br>Recovery | Percent<br>Recovery<br>Limits | Date<br>Analyzed |
|-------|------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| GRO   |      | mg/Kg | 1                     | 0.829                  | 82                          | 75 - 125                      | 8/6/01           |

ICV (1) QCBatch: QC13113

| Param | Flag | Units | CCVs<br>True<br>Conc. | CCVs<br>Found<br>Conc. | CCVs<br>Percent<br>Recovery | Percent<br>Recovery<br>Limits | Date<br>Analyzed |
|-------|------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| GRO   |      | mg/Kg | 1                     | 0.962                  | 96                          | 75 - 125                      | 8/6/01           |

CCV (1) QCBatch: QC13145

| Param    | Flag | Units | CCVs<br>True<br>Conc. | CCVs<br>Found<br>Conc. | CCVs<br>Percent<br>Recovery | Percent<br>Recovery<br>Limits | Date<br>Analyzed |
|----------|------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| DRO      |      | mg/Kg | 250                   | 283                    | 113                         | 75 - 125                      | 8/7/01           |
| n-Octane |      | mg/Kg | 250                   | 260                    | 104                         | 75 - 125                      | 8/7/01           |

CCV (2) QCBatch: QC13145

| Param    | Flag | Units | CCVs<br>True<br>Conc. | CCVs<br>Found<br>Conc. | CCVs<br>Percent<br>Recovery | Percent<br>Recovery<br>Limits | Date<br>Analyzed |
|----------|------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| DRO      |      | mg/Kg | 250                   | 287                    | 114                         | 75 - 125                      | 8/7/01           |
| n-Octane |      | mg/Kg | 250                   | 268                    | 107                         | 75 - 125                      | 8/7/01           |

CCV (3) QCBatch: QC13145

| Param    | Flag | Units | CCVs<br>True<br>Conc. | CCVs<br>Found<br>Conc. | CCVs<br>Percent<br>Recovery | Percent<br>Recovery<br>Limits | Date<br>Analyzed |
|----------|------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| DRO      |      | mg/Kg | 250                   | 284                    | 113                         | 75 - 125                      | 8/7/01           |
| n-Octane |      | mg/Kg | 250                   | 262                    | 104                         | 75 - 125                      | 8/7/01           |

ICV (1) QCBatch: QC13145

| Param    | Flag | Units | CCVs<br>True<br>Conc. | CCVs<br>Found<br>Conc. | CCVs<br>Percent<br>Recovery | Percent<br>Recovery<br>Limits | Date<br>Analyzed |
|----------|------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| DRO      |      | mg/Kg | 250                   | 281                    | 112                         | 75 - 125                      | 8/7/01           |
| n-Octane |      | mg/Kg | 250                   | 262                    | 104                         | 75 - 125                      | 8/7/01           |

CCV (1) QCBatch: QC13146

| Param    | Flag | Units | CCVs<br>True<br>Conc. | CCVs<br>Found<br>Conc. | CCVs<br>Percent<br>Recovery | Percent<br>Recovery<br>Limits | Date<br>Analyzed |
|----------|------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| DRO      |      | mg/Kg | 250                   | 273                    | 109                         | 75 - 125                      | 8/7/01           |
| n-Octane |      | mg/Kg | 250                   | 296                    | 118                         | 75 - 125                      | 8/7/01           |

CCV (2) QCBatch: QC13146

| Param    | Flag | Units | CCVs<br>True<br>Conc. | CCVs<br>Found<br>Conc. | CCVs<br>Percent<br>Recovery | Percent<br>Recovery<br>Limits | Date<br>Analyzed |
|----------|------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| DRO      |      | mg/Kg | 250                   | 280                    | 112                         | 75 - 125                      | 8/7/01           |
| n-Octane |      | mg/Kg | 250                   | 260                    | 104                         | 75 - 125                      | 8/7/01           |

CCV (3) QCBatch: QC13146

| Param    | Flag | Units | CCVs<br>True<br>Conc. | CCVs<br>Found<br>Conc. | CCVs<br>Percent<br>Recovery | Percent<br>Recovery<br>Limits | Date<br>Analyzed |
|----------|------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| DRO      |      | mg/Kg | 250                   | 280                    | 112                         | 75 - 125                      | 8/7/01           |
| n-Octane |      | mg/Kg | 250                   | 272                    | 108                         | 75 - 125                      | 8/7/01           |

ICV (1) QCBatch: QC13146

| Param    | Flag | Units | CCVs<br>True<br>Conc. | CCVs<br>Found<br>Conc. | CCVs<br>Percent<br>Recovery | Percent<br>Recovery<br>Limits | Date<br>Analyzed |
|----------|------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| DRO      |      | mg/Kg | 250                   | 284                    | 113                         | 75 - 125                      | 8/7/01           |
| n-Octane |      | mg/Kg | 250                   | 262                    | 104                         | 75 - 125                      | 8/7/01           |

CCV (1) QCBatch: QC13199

| Param    | Flag | Units | CCVs<br>True<br>Conc. | CCVs<br>Found<br>Conc. | CCVs<br>Percent<br>Recovery | Percent<br>Recovery<br>Limits | Date<br>Analyzed |
|----------|------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| DRO      |      | mg/Kg | 250                   | 275                    | 110                         | 75 - 125                      | 8/8/01           |
| n-Octane |      | mg/Kg | 250                   | 275                    | 110                         | 75 - 125                      | 8/8/01           |

CCV (2)      QCBatch:    QC13199

| Param    | Flag | Units | CCVs<br>True<br>Conc. | CCVs<br>Found<br>Conc. | CCVs<br>Percent<br>Recovery | Percent<br>Recovery<br>Limits | Date<br>Analyzed |
|----------|------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| DRO      |      | mg/Kg | 250                   | 287                    | 114                         | 75 - 125                      | 8/8/01           |
| n-Octane |      | mg/Kg | 250                   | 364                    | 145                         | 75 - 125                      | 8/8/01           |

ICV (1)      QCBatch:    QC13199

| Param    | Flag | Units | CCVs<br>True<br>Conc. | CCVs<br>Found<br>Conc. | CCVs<br>Percent<br>Recovery | Percent<br>Recovery<br>Limits | Date<br>Analyzed |
|----------|------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| DRO      |      | mg/Kg | 250                   | 279                    | 111                         | 75 - 125                      | 8/8/01           |
| n-Octane |      | mg/Kg | 250                   | 347                    | 138                         | 75 - 125                      | 8/8/01           |

# CHAIN-OF-CUSTODY

## Send Reports To:

Company Name ELG  
 Address 4400 W. Marland  
 City Dallas State TX Zip 75240  
 ATTN: Ken Aulton  
 Phone (214) 397-4942 Fax (214) 397-4701

## Bill to (if different):

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

Rush Status (must be confirmed with lab mgr.):

Project Name/PO#: Disc Hinge 1148 Sampler Carmelle Reynolds  
EST 2045C

| Client Sample No.<br>Description/Identification | Date<br>Sampled | Time<br>Sampled | No. of<br>Containers | Soil | Water | Waste | Lab I.D. #<br>(Lab only) | Comments |
|-------------------------------------------------|-----------------|-----------------|----------------------|------|-------|-------|--------------------------|----------|
| M005 0-2'                                       | 7/30/01         | 0955            | 1                    | X    |       |       |                          | 176351   |
| M005 5-7'                                       |                 | 1000            |                      |      |       |       |                          | 52       |
| M005 11-12'                                     |                 | 1010            |                      |      |       |       |                          | 53       |
| M005 15-17'                                     |                 | 1028            |                      |      |       |       |                          | 54       |
| M005 20-22'                                     |                 | 1051            |                      |      |       |       |                          | 55       |
| M005 25-27'                                     |                 | 1058            |                      |      |       |       |                          | 56       |
| M005 35-32'                                     |                 | 1111            |                      |      |       |       |                          | 57       |
| M005 35-37'                                     |                 | 1202            |                      |      |       |       |                          | 58       |
| M005 40-42'                                     |                 | 1211            |                      |      |       |       |                          | 59       |
| M005 45-47'                                     |                 | 1222            |                      |      |       |       |                          | 60       |

(1) Unless 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 limits (MDL, PQ). 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 c ASI's HSL 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>Ken Aulton</u>      | <u>Reynolds</u> | <u>8/2/01</u> | <u>P. del R.</u>   | <u>8/3/01</u>  | <u>10:45</u> |
|                        |                 |               | <u>Q. ...</u>      | <u>8/14/01</u> | <u>10:50</u> |

Understanding of above described samples to AnalySys, Inc. for analytical testing constitutes agreement by buyer/sampler to AnalySys, Inc.'s standard terms. [Signature]

Coc 09d 10/6  
 ANALYSYS INC.  
 4221 Freidrich Lane, Suite 190, Austin, TX 78  
 (512) 444-5896

# CHAIN-OF-CUSTODY

Send Reports To:

Bill to (if different):

Company Name ELGT  
Address 2066  
City Cocoa State FL Zip 32909

Company Name EGT  
Address 4221 Friedrich Lane, Suite 190, Austin, TX 78748  
City Austin State TX Zip 78748

ATTN: Ken Nelson  
Phone (512) 444-5896 Fax (512) 444-5896  
City Austin State TX Zip 78748

Analyses Requested (I)  
Please attach explanatory information as required

Rush Status (must be confirmed with lab mgr.):

Project Name/PO#: DR. Duggell #4 Sampler  
Sample: Camille Reynolds

| Client Sample No.<br>Description/Identification | Date<br>Sampled | Time<br>Sampled | No. of<br>Containers | Soil | Water | Waste | Lab I.D. #<br>(Lab only) | Comments |
|-------------------------------------------------|-----------------|-----------------|----------------------|------|-------|-------|--------------------------|----------|
| 111115 50-52'                                   | 7/30/01         | 1228            | 1                    | X    |       |       |                          | 176361   |
| 111115 50-57'                                   |                 | 1230            |                      |      |       |       |                          | 62       |
| 111115 60-62'                                   |                 | 1232            |                      |      |       |       |                          | 63       |
| 111115 60-67'                                   |                 | 1235            |                      |      |       |       |                          | 64       |
| 111116 00-2'                                    | 7/31/01         | 0843            |                      |      |       |       |                          | 65       |
| 111116 5-7'                                     |                 | 0852            |                      |      |       |       |                          | 66       |
| 111116 16-12'                                   |                 | 0859            |                      |      |       |       |                          | 67       |
| 111116 15-17'                                   |                 | 0907            |                      |      |       |       |                          | 68       |
| 111116 20-22'                                   |                 | 0910            |                      |      |       |       |                          | 69       |
| 111116 25-27'                                   |                 | 0913            |                      |      |       |       |                          | 70       |

(I) unless 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 limits (MLO/POC). 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 o ASI's HSL 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   |
| Camille Reynolds       |             | 8/2/01 | Robert S. P.       |             | 8/3/01 |
|                        |             |        | Camille Reynolds   |             | 8/4/01 |

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



# CHAIN-OF-CUSTODY

Send Reports To:

Company Name ELI  
 Address 2540 W. Maryland  
 City Indianapolis State IN Zip 46204  
 ATTN: Ken O'Leary  
 Phone (317) 397-4701 Fax (317) 397-4701

Bill to (if different):

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

Rush Status (must be confirmed with lab mgr.):

Project Name/ID# Don Engel #1 Sampler

Camille Reynolds

| Client Sample No.<br>Description/Identification | Date<br>Sampled | Time<br>Sampled | No. of<br>Containers | Soil | Water | Waste | Lab ID. #<br>(Lab only) | Comments |
|-------------------------------------------------|-----------------|-----------------|----------------------|------|-------|-------|-------------------------|----------|
| M1106 30-32'                                    | 7/31/01         | 0918            | 1                    | X    |       |       |                         | 174371   |
| M1106 35-37'                                    |                 | 0950            |                      |      |       |       |                         | 72       |
| M1106 40-42'                                    |                 | 1000            |                      |      |       |       |                         | 73       |
| M1106 45-47'                                    |                 | 1010            |                      |      |       |       |                         | 74       |
| M1106 50-52'                                    |                 | 1020            |                      |      |       |       |                         | 75       |
| M1106 55-57'                                    |                 | 1031            |                      |      |       |       |                         | 76       |
| M1106 60-62'                                    |                 | 1040            |                      |      |       |       |                         | 77       |
| M1106 65-67'                                    |                 | 1052            |                      |      |       |       |                         | 78       |
| M1107 0-2'                                      |                 | 1200            |                      |      |       |       |                         | 79       |
| M1107 5-7'                                      |                 | 1210            |                      |      |       |       |                         | 80       |

(1) Unless 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 limits (MDL/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 ASI's HSI 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        |
| Camille Reynolds       |             | 8/2/01 1430 | Camille Reynolds   |             | 8/3/01 1045 |
|                        |             |             |                    |             |             |

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

Don Engel 317 397 4701

COC 094 3066  
 ANALYSYS INC.  
 4221 Freidrich Lane, Suite 190, Austin, TX 78  
 (512) 444-5896

# CHAIN-OF-CUSTODY

Send Reports To:

Company Name ET&T  
 Address 3540 W. Marland  
 City Highland State TX Zip 78248  
 ATTN: Ken Dutton  
 Phone (512) 397-4823 Fax (512) 397-4701

Bill to (if different):

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

4221 Freidrich Lane, Suite 190, Austin, TX 787  
 (512) 444-5896

Rush Status (must be confirmed with lab mgr.):

Project Name/PO# Shirley Angel / #1 Sampler Camille Reynolds  
1-67-20752

Analyses Requested (1)  
 Please attach explanatory information as required

| Client Sample No.<br>Description/Identification | Date<br>Sampled | Time<br>Sampled | No. of<br>Containers | Soil | Water | Waste | Lab I.D. #<br>(Lab only) | Comments |
|-------------------------------------------------|-----------------|-----------------|----------------------|------|-------|-------|--------------------------|----------|
| MW-1 10-12'                                     | 7/31/01         | 1221            | 1                    | X    |       |       |                          | 176381   |
| MW-1 15-17'                                     |                 | 1235            |                      |      |       |       |                          | 82       |
| MW-1 20-22'                                     |                 | 1243            |                      |      |       |       |                          | 83       |
| MW-1 25-27'                                     |                 | 1252            |                      |      |       |       |                          | 84       |
| MW-1 30-32'                                     |                 | 1300            |                      |      |       |       |                          | 85       |
| MW-1 35-37'                                     |                 | 1305            |                      |      |       |       |                          | 86       |
| MW-1 40-42'                                     |                 | 1315            |                      |      |       |       |                          | 87       |
| MW-1 45-47'                                     |                 | 1321            |                      |      |       |       |                          | 88       |
| MW-1 50-52'                                     |                 | 1330            |                      |      |       |       |                          | 89       |
| MW-1 55-57'                                     |                 | 1342            |                      |      |       |       |                          | 90       |

(Unless 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 limits (MFL/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 ASI's HSL 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   |
| Camille Reynolds       |             | 8/2/01 | Shirley Angel      |             | 8/3/01 |
|                        |             |        | Camille Reynolds   |             | 8/4/01 |
|                        |             |        |                    |             | 10/05  |

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

ANALYSYS INC.

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# CHAIN-OF-CUSTODY

Send Reports To:

Company Name ET&T

Address 4546 W. MacLennan

City El Paso State TX Zip 79907

ATTN: Ken Dutton

Phone (915) 377-4822 Fax (915) 397-4701

Rush Status (must be confirmed with lab mgr.):

Project Name/PO#: ENVIRONMENTAL #4 Sampler

Bill to (if different):

Company Name

Address

City

State

Zip

ATTN:

Phone

Fax

Analyses Requested (1)

Please attach explanatory information as requested.

| Client Sample No.<br>Description/Identification | Date<br>Sampled | Time<br>Sampled | No. of<br>Containers | Soil | Water/Waste | Lab I.D. #<br>(Lab only) | Comments |
|-------------------------------------------------|-----------------|-----------------|----------------------|------|-------------|--------------------------|----------|
| MWD-7 60-62'                                    | 7/21/01         | 1355            | 1                    | X    |             |                          | 176391   |
| MWD-8 0-2'                                      | 8/1/01          | 0915            | 1                    |      |             |                          | 92       |
| MWD-9 5-7'                                      | 8/1/01          | 0921            | 1                    |      |             |                          | 93       |
| MWD-10 10-12'                                   |                 | 0927            | 1                    |      |             |                          | 94       |
| MWD-11 15-17'                                   |                 | 0935            | 1                    |      |             |                          | 95       |
| MWD-12 20-22'                                   |                 | 0942            | 1                    |      |             |                          | 96       |
| MWD-13 25-27'                                   |                 | 1130            | 1                    |      |             |                          | 97       |
| MWD-14 30-32'                                   |                 | 1250            | 1                    |      |             |                          | 98       |
| MWD-15 35-37'                                   |                 | 1255            | 1                    |      |             |                          | 99       |
| MWD-16 40-42'                                   |                 | 1300            | 1                    |      |             |                          | 400      |

(1) Unless 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 limits (MDL/POU). 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 ASI's HSI 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   |
| Camille Reynolds       |             | 8/2/01 | Chadley            |             | 8/3/01 |
|                        |             |        | Camille Reynolds   |             | 8/4/01 |
|                        |             |        |                    |             | 1045   |
|                        |             |        |                    |             | 1000   |

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

Bus 902 674 4934

ET&T

ms

400 694 5066  
ANALYSYS INC.  
4221 Freidrich Lane, Suite 190, Austin, TX 78721  
(512) 444-5896

# CHAIN-OF-CUSTODY

Send Reports To:

Bill to (if different):

Company Name ETG  
 Address 2540 W. Markland  
 City Liberty State MO Zip 64040  
 ATTN: Ken Dutton  
 Phone (502) 317-4882 Fax (502) 397-4701

4221 Freidrich Lane, Suite 190, Austin, TX 787  
 (512) 444-5896

Rush Status (must be confirmed with lab mgr.):

Project Name/PO#: Env. Argill #4 Sampler Camille Reynolds

## Analyses Requested (1)

Please attach explanatory information as require

| Client Sample No.<br>Description/Identification | Date<br>Sampled | Time<br>Sampled | No. of<br>Containers | Soil | Water | Waste | Lab I.D. #<br>(Lab only) | Comments |
|-------------------------------------------------|-----------------|-----------------|----------------------|------|-------|-------|--------------------------|----------|
| 111111 45-47'                                   | 8/1/01          | 1307            | 1                    | X    |       |       |                          | 176401   |
| 111111 50-52'                                   |                 | 1312            |                      |      |       |       |                          | 02       |
| 111111 55-57'                                   |                 | 1320            |                      |      |       |       |                          | 03       |
| 111111 60-62'                                   |                 | 1330            |                      |      |       |       |                          | 04       |
| 111111 65-67'                                   |                 | 1340            |                      |      |       |       |                          | 05       |

(Unless 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 facility (ARL, PGL). 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 ASI's HSE list at ASI's option. Specific compound lists must be supplied for all GC procedures.

## Sample Relinquished By

## Sample Received By

| Name             | Affiliation | Date   | Time | Name             | Affiliation | Date    | Time |
|------------------|-------------|--------|------|------------------|-------------|---------|------|
| Camille Reynolds |             | 8/2/01 | 1430 | Camille Reynolds |             | 8/8/01  | 1045 |
|                  |             |        |      |                  |             | 8/11/01 | 1000 |

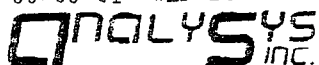
[Tendering of above described samples to AnalySys, Inc. for analytical testing constitutes agreement by buyer/sampler to AnalySys, Inc.'s standard terms.]

for 902 to 200210 MK

ANALYSYS INC.

609 094 609 60

HD 800001



4221 Freidrich Lane, Suite 190, Austin, TX 78744 &  
2209 N. Padre Island Dr., Corpus Christi, TX 78408  
(512) 444-5896 FAX (512) 447-4766

Client: Environmental Tech Group  
Attn: Ken Dutton  
Address: 2540 W. Marland  
Hobbs Nm 88240  
Phone: 505 397-4882 FAX: 505 397-4701

Report#/Lab ID#: 118499 Report Date: 09/05/01  
Project ID: Darr Angell 4 EOT 2075C  
Sample Name: MW 9 0'-2'  
Sample Matrix: soil  
Date Received: 08/23/2001 Time: 14:45  
Date Sampled: 08/09/2001 Time: 08:46

**PRELIMINARY REPORT OF ANALYSIS**

| Parameter                 | Result | Units | RQL <sup>1</sup> | Blank | Date     | Method    |
|---------------------------|--------|-------|------------------|-------|----------|-----------|
| TPH by GC (as diesel)     | 18     | mg/Kg | 1                | <1    | 09/04/01 | 8015 mod  |
| TPH by GC (as diesel-ext) | ---    | ---   | ---              | ---   | 08/30/01 | 3540      |
| TPH by GC (as gasoline)   | <5     | mg/Kg | 5                | <5    | 08/27/01 | 8015 mod. |

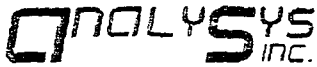
1. Reporting Quantitation Limit (RQL): typically at or above the Practical Quantitation Limit (PQL) of the analytical method.

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Respectfully Submitted,

*Richard Laster*

Richard Laster



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**Address:** 2540 W. Marland  
Hobbs Nm 88240  
**Phone:** 505 397-4882 **FAX:** 505 397-4701

**Report#/Lab ID#:** 118500 **Report Date:** 09/05/01  
**Project ID:** Dart Angell 4 EOT 2075C  
**Sample Name:** MW 9 5'-7'  
**Sample Matrix:** soil  
**Date Received:** 08/23/2001 **Time:** 14:45  
**Date Sampled:** 08/09/2001 **Time:** 09:00

**PRELIMINARY REPORT OF ANALYSIS**

| Parameter                 | Result | Units | RQL <sup>1</sup> | Blank | Date     | Method    |
|---------------------------|--------|-------|------------------|-------|----------|-----------|
| TPH by GC (as diesel)     | 15.4   | mg/Kg | 1                | <1    | 09/04/01 | 8015 mod  |
| TPH by GC (as diesel-ext) | ---    | ---   | ---              | ---   | 08/30/01 | 3540      |
| TPH by GC (as gasoline)   | <5     | mg/Kg | 5                | <5    | 08/27/01 | 8015 mod. |

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Report#/Lab ID#: 118501 Report Date: 09/05/01  
Project ID: Darr Angell 4 EOT 2075C  
Sample Name: MW 9 10'-12'  
Sample Matrix: soil  
Date Received: 08/23/2001 Time: 14:45  
Date Sampled: 08/09/2001 Time: 09:40

**PRELIMINARY REPORT OF ANALYSIS**

| Parameter                 | Result | Units | RQL <sup>1</sup> | Blank | Date     | Method    |
|---------------------------|--------|-------|------------------|-------|----------|-----------|
| TPH by GC (as diesel)     | 5.08   | mg/Kg | 1                | <1    | 09/04/01 | 8015 mod  |
| TPH by GC (as diesel-ext) | ---    | ---   | ---              | ---   | 08/30/01 | 3540      |
| TPH by GC (as gasoline)   | <5     | mg/Kg | 5                | <5    | 08/27/01 | 8015 mod. |

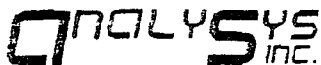
1. Reporting Quantitation Limit (RQL), typically at or above the Practical Quantitation Limit (PQL) of the analytical method.

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Report#/Lab ID#: 118502 Report Date: 09/05/01  
Project ID: Darr Angell 4 EOT 2075C  
Sample Name: MW 9 15'-17'  
Sample Matrix: soil  
Date Received: 08/23/2001 Time: 14:45  
Date Sampled: 08/09/2001 Time: 09:59

**PRELIMINARY REPORT OF ANALYSIS**

| Parameter                 | Result | Units | RQL <sup>1</sup> | Blank | Date     | Method    |
|---------------------------|--------|-------|------------------|-------|----------|-----------|
| TPH by GC (as diesel)     | 4.61   | mg/Kg | 1                | <1    | 09/04/01 | 8015 mod  |
| TPH by GC (as diesel-ext) | ---    | ---   | ---              | ---   | 08/30/01 | 3540      |
| TPH by GC (as gasoline)   | <5     | mg/Kg | 5                | <5    | 08/27/01 | 8015 mod. |

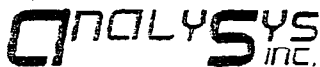
1. Reporting Quantitation Limit (RQL), typically at or above the Practical Quantitation Limit (PQL) of the analytical method.

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Report#/Lab ID#: 118503 Report Date: 09/05/01  
Project ID: Darr Angell 4 EOT 2075C  
Sample Name: MW 9 20'-22'  
Sample Matrix: soil  
Date Received: 08/23/2001 Time: 14:45  
Date Sampled: 08/09/2001 Time: 10:03

**PRELIMINARY REPORT OF ANALYSIS**

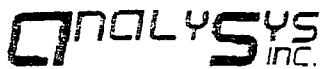
| Parameter                 | Result | Units | RQL <sup>1</sup> | Blank | Date     | Method    |
|---------------------------|--------|-------|------------------|-------|----------|-----------|
| TPH by GC (as diesel)     | 1.83   | mg/Kg | 1                | <1    | 09/04/01 | 8015 mod  |
| TPH by GC (as diesel-ext) | ---    | ---   | ---              | ---   | 08/30/01 | 3540      |
| TPH by GC (as gasoline)   | <5     | mg/Kg | 5                | <5    | 08/27/01 | 8015 mod. |

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Report#/Lab ID#: 118504 Report Date: 09/05/01  
Project ID: Darr Angell 4 EOT 2075C  
Sample Name: MW 9 25'-27'  
Sample Matrix: soil  
Date Received: 08/23/2001 Time: 14:45  
Date Sampled: 08/09/2001 Time: 10:09

**PRELIMINARY REPORT OF ANALYSIS**

| Parameter                 | Result | Units | RQL <sup>1</sup> | Blank | Date     | Method    |
|---------------------------|--------|-------|------------------|-------|----------|-----------|
| TPH by GC (as diesel)     | 5.1    | mg/Kg | 1                | <1    | 09/04/01 | 8015 mod  |
| TPH by GC (as diesel-ext) | ---    | ---   | ---              | ---   | 08/30/01 | 3540      |
| TPH by GC (as gasoline)   | <5     | mg/Kg | 5                | <5    | 08/27/01 | 8015 mod. |

1. Reporting Quantitation Limit (RQL), typically at or above the Practical Quantitation Limit (PQL) of the analytical method.

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Report#/Lab ID#: 118505 Report Date: 09/05/01  
Project ID: Darr Angell 4 EOT 2075C  
Sample Name: MW 9 30'-32'  
Sample Matrix: soil  
Date Received: 08/23/2001 Time: 14:45  
Date Sampled: 08/09/2001 Time: 10:48

**PRELIMINARY REPORT OF ANALYSIS**

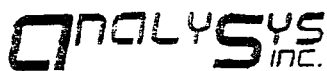
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|---------------------------|--------|-------|------------------|-------|----------|-----------|
| TPH by GC (as diesel)     | 14.6   | mg/Kg | 1                | <1    | 09/04/01 | 8015 mod  |
| TPH by GC (as diesel-ext) | ---    | ---   | ---              | ---   | 08/30/01 | 3540      |
| TPH by GC (as gasoline)   | <5     | mg/Kg | 5                | <5    | 08/27/01 | 8015 mod. |

1. Reporting Quantitation Limit (RQL); typically at or above the Practical Quantitation Limit (PQL) of the analytical method.

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Respectfully Submitted.

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Client: Environmental Tech Group  
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Hobbs Nm 88240  
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Report#/Lab ID#: 118506 Report Date: 09/05/01  
Project ID: Darr Angell 4 EOT 2075C  
Sample Name: MW 9 35'-37'  
Sample Matrix: soil  
Date Received: 08/23/2001 Time: 14:45  
Date Sampled: 08/09/2001 Time: 11:30

### PRELIMINARY REPORT OF ANALYSIS

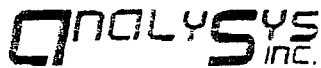
| Parameter                 | Result | Units | RQL <sup>1</sup> | Blank | Date     | Method    |
|---------------------------|--------|-------|------------------|-------|----------|-----------|
| TPH by GC (as diesel)     | <1     | mg/Kg | 1                | <1    | 09/04/01 | 8015 mod  |
| TPH by GC (as diesel-ext) | ---    | ---   | ---              | ---   | 08/30/01 | 3540      |
| TPH by GC (as gasoline)   | <5     | mg/Kg | 5                | <5    | 08/27/01 | 8015 mod. |

1. Reporting Quantitation Limit (RQL): typically at or above the Practical Quantitation Limit (PQL) of the analytical method.

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Client: Environmental Tech Group  
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Report#/Lab ID#: 118507 Report Date: 09/07/01  
Project ID: Darr Angell 4 EOT 2075C  
Sample Name: MW 9 40'-42'  
Sample Matrix: soil  
Date Received: 08/23/2001 Time: 14:45  
Date Sampled: 08/09/2001 Time: 11:35

**PRELIMINARY REPORT OF ANALYSIS**

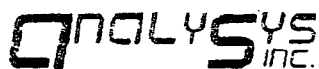
| Parameter                 | Result | Units | RQL <sup>1</sup> | Blank | Date     | Method    |
|---------------------------|--------|-------|------------------|-------|----------|-----------|
| TPH by GC (as diesel)     | <1     | mg/Kg | 1                | <1    | 09/06/01 | 8015 mod  |
| TPH by GC (as diesel-ext) | ---    | ---   | ---              | ---   | 08/31/01 | 3540      |
| TPH by GC (as gasoline)   | <5     | mg/Kg | 5                | <5    | 08/27/01 | 8015 mod. |

1. Reporting Quantitation Limit (RQL): typically at or above the Practical Quantitation Limit (PQL) of the analytical method.

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Client: Environmental Tech Group  
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Report#/Lab ID#: 118508 Report Date: 09/07/01  
Project ID: Darr Angell 4 EOT 2075C  
Sample Name: MW 9 45'-47'  
Sample Matrix: soil  
Date Received: 08/23/2001 Time: 14:45  
Date Sampled: 08/09/2001 Time: 11:40

### PRELIMINARY REPORT OF ANALYSIS

| Parameter                 | Result | Units | RQL <sup>1</sup> | Blank | Date     | Method    |
|---------------------------|--------|-------|------------------|-------|----------|-----------|
| TPH by GC (as diesel)     | 5.58   | mg/Kg | 1                | <1    | 09/06/01 | 8015 mod  |
| TPH by GC (as diesel-ext) | ---    | ---   | ---              | ---   | 08/31/01 | 3540      |
| TPH by GC (as gasoline)   | <5     | mg/Kg | 5                | <5    | 08/27/01 | 8015 mod. |

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Respectfully Submitted,

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Client: Environmental Tech Group  
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Report#/Lab ID#: 118509 Report Date: 09/07/01  
Project ID: Darr Angell 4 EOT 2075C  
Sample Name: MW 9 50'-52'  
Sample Matrix: soil  
Date Received: 08/23/2001 Time: 14:45  
Date Sampled: 08/09/2001 Time: 11:48

### PRELIMINARY REPORT OF ANALYSIS

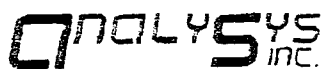
| Parameter                 | Result | Units | RQL <sup>1</sup> | Blank | Date     | Method    |
|---------------------------|--------|-------|------------------|-------|----------|-----------|
| TPH by GC (as diesel)     | 1.48   | mg/Kg | 1                | <1    | 09/06/01 | 8015 mod  |
| TPH by GC (as diesel-ext) | ---    | ---   | ---              | ---   | 08/31/01 | 3540      |
| TPH by GC (as gasoline)   | <5     | mg/Kg | 5                | <5    | 08/27/01 | 8015 mod. |

1. Reporting Quantitation Limit (RQL): typically at or above the Practical Quantitation Limit (PQL) of the analytical method.

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Respectfully Submitted,

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Client: Environmental Tech Group  
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Hobbs Nm 88240  
Phone: 505 397-4882 FAX: 505 397-4701

Report#/Lab ID#: 118510 Report Date: 09/07/01  
Project ID: Darr Angell 4 EOT 2075C  
Sample Name: MW 9 55'-57'  
Sample Matrix: soil  
Date Received: 08/23/2001 Time: 14:45  
Date Sampled: 08/09/2001 Time: 11:52

**PRELIMINARY REPORT OF ANALYSIS**

| Parameter                 | Result | Units | RQL <sup>1</sup> | Blank | Date     | Method    |
|---------------------------|--------|-------|------------------|-------|----------|-----------|
| TPH by GC (as diesel)     | 2.86   | mg/Kg | 1                | <1    | 09/06/01 | 8015 mod  |
| TPH by GC (as diesel-ext) | ---    | ---   | ---              | ---   | 08/31/01 | 3540      |
| TPH by GC (as gasoline)   | <5     | mg/Kg | 5                | <5    | 08/27/01 | 8015 mod. |

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**Phone:** 505 397-4882 **FAX:** 505 397-4701

**Report#/Lab ID#:** 118511 **Report Date:** 09/07/01  
**Project ID:** Darr Angell 4 EOT 2075C  
**Sample Name:** MW 9 60'-62'  
**Sample Matrix:** soil  
**Date Received:** 08/23/2001 **Time:** 14:45  
**Date Sampled:** 08/09/2001 **Time:** 11:59

### PRELIMINARY REPORT OF ANALYSIS

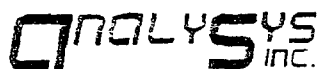
| Parameter                 | Result | Units | RQL <sup>1</sup> | Blank | Date     | Method    |
|---------------------------|--------|-------|------------------|-------|----------|-----------|
| TPH by GC (as diesel)     | 2.51   | mg/Kg | 1                | <1    | 09/06/01 | 8015 mod  |
| TPH by GC (as diesel-ext) | ---    | ---   | ---              | ---   | 08/31/01 | 3540      |
| TPH by GC (as gasoline)   | <5     | mg/Kg | 5                | <5    | 08/27/01 | 8015 mod. |

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Report#/Lab ID#: 118512 Report Date: 09/07/01  
 Project ID: Darr Angell 4 EOT 2075C  
 Sample Name: MW 9 65'-67'  
 Sample Matrix: soil  
 Date Received: 08/23/2001 Time: 14:45  
 Date Sampled: 08/09/2001 Time: 12:05

### PRELIMINARY REPORT OF ANALYSIS

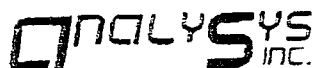
| Parameter                 | Result | Units | RQL <sup>1</sup> | Blank | Date     | Method    |
|---------------------------|--------|-------|------------------|-------|----------|-----------|
| TPH by GC (as diesel)     | 16.3   | mg/Kg | 1                | <1    | 09/06/01 | 8015 mod  |
| TPH by GC (as diesel-ext) | ---    | ---   | ---              | ---   | 08/31/01 | 3540      |
| TPH by GC (as gasoline)   | <5     | mg/Kg | 5                | <5    | 08/27/01 | 8015 mod. |

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Report#/Lab ID#: 118513 Report Date: 09/07/01  
Project ID: Darr Angell 4 EOT 2075C  
Sample Name: MW 10 0'-2'  
Sample Matrix: soil  
Date Received: 08/23/2001 Time: 14:45  
Date Sampled: 08/10/2001 Time: 09:55

### PRELIMINARY REPORT OF ANALYSIS

| Parameter                 | Result | Units | RQL <sup>1</sup> | Blank | Date     | Method    |
|---------------------------|--------|-------|------------------|-------|----------|-----------|
| TPH by GC (as diesel)     | 17     | mg/Kg | 1                | <1    | 09/06/01 | 8015 mod  |
| TPH by GC (as diesel-ext) | ---    | ---   | ---              | ---   | 08/31/01 | 3540      |
| TPH by GC (as gasoline)   | <5     | mg/Kg | 5                | <5    | 08/24/01 | 8015 mod. |

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**Report#/Lab ID#:** 118514 **Report Date:** 09/07/01  
**Project ID:** Darr Angell 4 EOT 2075C  
**Sample Name:** MW 10 5'-7'  
**Sample Matrix:** soil  
**Date Received:** 08/23/2001 **Time:** 14:45  
**Date Sampled:** 08/10/2001 **Time:** 10:11

### PRELIMINARY REPORT OF ANALYSIS

| Parameter                 | Result | Units | RQL <sup>1</sup> | Blank | Date     | Method    |
|---------------------------|--------|-------|------------------|-------|----------|-----------|
| TPH by GC (as diesel)     | 4.81   | mg/Kg | 1                | <1    | 09/06/01 | 8015 mod  |
| TPH by GC (as diesel-ext) | ---    | ---   | ---              | ---   | 08/31/01 | 3540      |
| TPH by GC (as gasoline)   | <5     | mg/Kg | 5                | <5    | 08/24/01 | 8015 mod. |

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Report#/Lab ID#: 118515 Report Date: 09/07/01  
 Project ID: Darr Angell 4 EOT 2075C  
 Sample Name: MW 10 10'-12'  
 Sample Matrix: soil  
 Date Received: 08/23/2001 Time: 14:45  
 Date Sampled: 08/10/2001 Time: 10:22

**PRELIMINARY REPORT OF ANALYSIS**

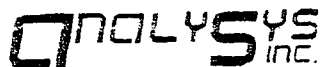
| Parameter                 | Result | Units | RQL <sup>1</sup> | Blank | Date     | Method    |
|---------------------------|--------|-------|------------------|-------|----------|-----------|
| TPH by GC (as diesel)     | 3.89   | mg/Kg | 1                | <1    | 09/06/01 | 8015 mod  |
| TPH by GC (as diesel-ext) | ---    | ---   | ---              | ---   | 08/31/01 | 3540      |
| TPH by GC (as gasoline)   | <5     | mg/Kg | 5                | <5    | 08/24/01 | 8015 mod. |

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Report#/Lab ID#: 118516 Report Date: 09/07/01  
Project ID: Darr Angell 4 EOT 2075C  
Sample Name: MW 10 15'-17'  
Sample Matrix: soil  
Date Received: 08/23/2001 Time: 14:45  
Date Sampled: 08/10/2001 Time: 10:29

### PRELIMINARY REPORT OF ANALYSIS

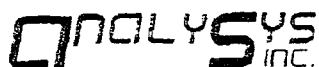
| Parameter                 | Result | Units | RQL <sup>1</sup> | Blank | Date     | Method    |
|---------------------------|--------|-------|------------------|-------|----------|-----------|
| TPH by GC (as diesel)     | 2.65   | mg/Kg | 1                | <1    | 09/06/01 | 8015 mod  |
| TPH by GC (as diesel-ext) | ---    | ---   | ---              | ---   | 08/31/01 | 3540      |
| TPH by GC (as gasoline)   | <5     | mg/Kg | 5                | <5    | 08/24/01 | 8015 mod. |

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Report#/Lab ID#: 118517 Report Date: 09/07/01  
Project ID: Darr Angell 4 EOT 2075C  
Sample Name: MW 10 20'-22'  
Sample Matrix: soil  
Date Received: 08/23/2001 Time: 14:45  
Date Sampled: 08/10/2001 Time: 10:35

### PRELIMINARY REPORT OF ANALYSIS

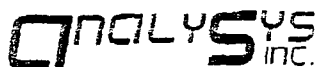
| Parameter                 | Result | Units | RQL <sup>1</sup> | Blank | Date     | Method    |
|---------------------------|--------|-------|------------------|-------|----------|-----------|
| TPH by GC (as diesel)     | <1     | mg/Kg | 1                | <1    | 09/06/01 | 8015 mod  |
| TPH by GC (as diesel-ext) | ---    | ---   | ---              | ---   | 08/31/01 | 3540      |
| TPH by GC (as gasoline)   | <5     | mg/Kg | 5                | <5    | 08/24/01 | 8015 mod. |

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Report#/Lab ID#: 118518 Report Date: 09/07/01  
 Project ID: Darr Angell 4 EOT 2075C  
 Sample Name: MW 10 25'-27'  
 Sample Matrix: soil  
 Date Received: 08/23/2001 Time: 14:45  
 Date Sampled: 08/10/2001 Time: 10:50

### PRELIMINARY REPORT OF ANALYSIS

| Parameter                 | Result | Units | RQL <sup>1</sup> | Blank | Date     | Method    |
|---------------------------|--------|-------|------------------|-------|----------|-----------|
| TPH by GC (as diesel)     | 6.57   | mg/Kg | 1                | <1    | 09/06/01 | 8015 mod  |
| TPH by GC (as diesel-ext) | ---    | ---   | ---              | ---   | 08/31/01 | 3540      |
| TPH by GC (as gasoline)   | <5     | mg/Kg | 5                | <5    | 08/24/01 | 8015 mod. |

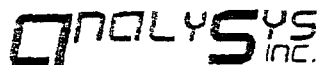
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Report#/Lab ID#: 118519 Report Date: 09/07/01  
Project ID: Darr Angell 4 EOT 2075C  
Sample Name: MW 10 30'-32'  
Sample Matrix: soil  
Date Received: 08/23/2001 Time: 14:45  
Date Sampled: 08/10/2001 Time: 10:59

### PRELIMINARY REPORT OF ANALYSIS

| Parameter                 | Result | Units | RQL <sup>1</sup> | Blank | Date     | Method    |
|---------------------------|--------|-------|------------------|-------|----------|-----------|
| TPH by GC (as diesel)     | <1     | mg/Kg | 1                | <1    | 09/06/01 | 8015 mod  |
| TPH by GC (as diesel-ext) | ---    | ---   | ---              | ---   | 08/31/01 | 3540      |
| TPH by GC (as gasoline)   | <5     | mg/Kg | 5                | <5    | 08/24/01 | 8015 mod. |

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Richard Laster

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Report#/Lab ID#: 118520 Report Date: 09/07/01  
Project ID: Darr Angell 4 EOT 2075C  
Sample Name: MW 10 35'-37'  
Sample Matrix: soil  
Date Received: 08/23/2001 Time: 14:45  
Date Sampled: 08/10/2001 Time: 11:07

**PRELIMINARY REPORT OF ANALYSIS**

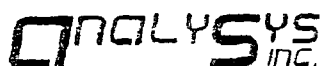
| Parameter                 | Result | Units | RQL <sup>1</sup> | Blank | Date     | Method    |
|---------------------------|--------|-------|------------------|-------|----------|-----------|
| TPH by GC (as diesel)     | <1     | mg/Kg | 1                | <1    | 09/06/01 | 8015 mod  |
| TPH by GC (as diesel-ext) | ---    | ---   | ---              | ---   | 08/31/01 | 3540      |
| TPH by GC (as gasoline)   | <5     | mg/Kg | 5                | <5    | 08/24/01 | 8015 mod. |

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Report#/Lab ID#: 118521 Report Date: 09/07/01  
 Project ID: Darr Angell 4 EOT 2075C  
 Sample Name: MW 10 40'-42'  
 Sample Matrix: soil  
 Date Received: 08/23/2001 Time: 14:45  
 Date Sampled: 08/10/2001 Time: 11:14

### PRELIMINARY REPORT OF ANALYSIS

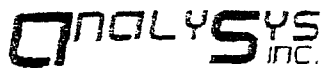
| Parameter                 | Result | Units | RQL <sup>1</sup> | Blank | Date     | Method    |
|---------------------------|--------|-------|------------------|-------|----------|-----------|
| TPH by GC (as diesel)     | 3.5    | mg/Kg | 1                | <1    | 09/06/01 | 8015 mod  |
| TPH by GC (as diesel-ext) | ---    | ---   | ---              | ---   | 08/31/01 | 3540      |
| TPH by GC (as gasoline)   | <5     | mg/Kg | 5                | <5    | 08/24/01 | 8015 mod. |

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Report#/Lab ID#: 118522 Report Date: 09/07/01  
 Project ID: Dart Angell 4 EOT 2075C  
 Sample Name: MW 10 45'-47'  
 Sample Matrix: soil  
 Date Received: 08/23/2001 Time: 14:45  
 Date Sampled: 08/10/2001 Time: 11:21

### PRELIMINARY REPORT OF ANALYSIS

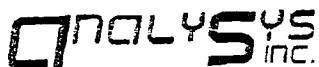
| Parameter                 | Result | Units | RQL <sup>1</sup> | Blank | Date     | Method    |
|---------------------------|--------|-------|------------------|-------|----------|-----------|
| TPH by GC (as diesel)     | 2.34   | mg/Kg | 1                | <1    | 09/06/01 | 8015 mod  |
| TPH by GC (as diesel-ext) | ---    | ---   | ---              | ---   | 08/31/01 | 3540      |
| TPH by GC (as gasoline)   | <5     | mg/Kg | 5                | <5    | 08/24/01 | 8015 mod. |

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Report#/Lab ID#: 118523 Report Date: 09/07/01  
Project ID: Darr Angell 4 EOT 2075C  
Sample Name: MW 10 50'-52'  
Sample Matrix: soil  
Date Received: 08/23/2001 Time: 14:45  
Date Sampled: 08/10/2001 Time: 11:29

### PRELIMINARY REPORT OF ANALYSIS

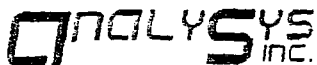
| Parameter                 | Result | Units | RQL <sup>1</sup> | Blank | Date     | Method    |
|---------------------------|--------|-------|------------------|-------|----------|-----------|
| TPH by GC (as diesel)     | 1.41   | mg/Kg | 1                | <1    | 09/06/01 | 8015 mod  |
| TPH by GC (as diesel-ext) | ---    | ---   | ---              | ---   | 08/31/01 | 3540      |
| TPH by GC (as gasoline)   | <5     | mg/Kg | 5                | <5    | 08/24/01 | 8015 mod. |

1. Reporting Quantitation Limit (RQL): typically at or above the Practical Quantitation Limit (PQL) of the analytical method.

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Report#/Lab ID#: 118524 Report Date: 09/07/01  
Project ID: Darr Angell 4 EOT 2075C  
Sample Name: MW 10 55'-57'  
Sample Matrix: soil  
Date Received: 08/23/2001 Time: 14:45  
Date Sampled: 08/10/2001 Time: 11:33

### PRELIMINARY REPORT OF ANALYSIS

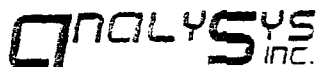
| Parameter                 | Result | Units | RQL <sup>1</sup> | Blank | Date     | Method    |
|---------------------------|--------|-------|------------------|-------|----------|-----------|
| TPH by GC (as diesel)     | 1.92   | mg/Kg | 1                | <1    | 09/06/01 | 8015 mod  |
| TPH by GC (as diesel-ext) | ---    | ---   | ---              | ---   | 08/31/01 | 3540      |
| TPH by GC (as gasoline)   | <5     | mg/Kg | 5                | <5    | 08/24/01 | 8015 mod. |

<sup>1</sup> Reporting Quantitation Limit (RQL), typically at or above the Practical Quantitation Limit (PQL) of the analytical method.

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Report#/Lab ID#: 118525 Report Date: 09/07/01  
Project ID: Darr Angell 4 EOT 2075C  
Sample Name: MW 10 60'-62'  
Sample Matrix: soil  
Date Received: 08/23/2001 Time: 14:45  
Date Sampled: 08/10/2001 Time: 11:37

### PRELIMINARY REPORT OF ANALYSIS

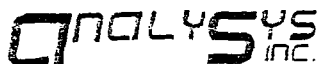
| Parameter                 | Result | Units | RQL <sup>1</sup> | Blank | Date     | Method    |
|---------------------------|--------|-------|------------------|-------|----------|-----------|
| TPH by GC (as diesel)     | 1.04   | mg/Kg | 1                | <1    | 09/06/01 | 8015 mod  |
| TPH by GC (as diesel-ext) | ---    | ---   | ---              | ---   | 08/31/01 | 3540      |
| TPH by GC (as gasoline)   | <5     | mg/Kg | 5                | <5    | 08/24/01 | 8015 mod. |

1. Reporting Quantitation Limit (RQL), typically at or above the Practical Quantitation Limit (PQL) of the analytical method.

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Report#/Lab ID#: 118526 Report Date: 09/07/01  
 Project ID: Darr Angell 4 EOT 2075C  
 Sample Name: MW 10 65'-67'  
 Sample Matrix: soil  
 Date Received: 08/23/2001 Time: 14:45  
 Date Sampled: 08/10/2001 Time: 11:42

### PRELIMINARY REPORT OF ANALYSIS

| Parameter                 | Result | Units | RQL <sup>1</sup> | Blank | Date     | Method    |
|---------------------------|--------|-------|------------------|-------|----------|-----------|
| TPH by GC (as diesel)     | 2.09   | mg/Kg | 1                | <1    | 09/06/01 | 8015 mod  |
| TPH by GC (as diesel-ext) | ---    | ---   | ---              | ---   | 08/31/01 | 3540      |
| TPH by GC (as gasoline)   | <5     | mg/Kg | 5                | <5    | 08/24/01 | 8015 mod. |

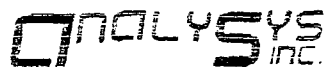
<sup>1</sup> Reporting Quantitation Limit (RQL); typically at or above the Practical Quantitation Limit (PQL) of the analytical method.

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Report#/Lab ID#: 118527 Report Date: 08/30/01  
 Project ID: Dart Angell 4 EOT 2075C  
 Sample Name: MW 11 0'-2'  
 Sample Matrix: soil  
 Date Received: 08/23/2001 Time: 14:45  
 Date Sampled: 08/13/2001 Time: 09:06

### PRELIMINARY REPORT OF ANALYSIS

| Parameter                 | Result | Units | RQL <sup>1</sup> | Blank | Date     | Method    |
|---------------------------|--------|-------|------------------|-------|----------|-----------|
| TPH by GC (as diesel)     | 1.72   | mg/Kg | 1                | <1    | 08/29/01 | 8015 mod  |
| TPH by GC (as diesel-ext) | ---    | ---   | ---              | ---   | 08/24/01 | 3540      |
| TPH by GC (as gasoline)   | <5     | mg/Kg | 5                | <5    | 08/27/01 | 8015 mod. |

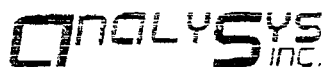
1. Reporting Quantitation Limit (RQL): typically at or above the Practical Quantitation Limit (PQL) of the analytical method.

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Report#/Lab ID#: 118528 Report Date: 08/30/01  
Project ID: Durr Angell 4 EOT 2075C  
Sample Name: MW 11 5'-7'  
Sample Matrix: soil  
Date Received: 08/23/2001 Time: 14:45  
Date Sampled: 08/13/2001 Time: 09:09

**PRELIMINARY REPORT OF ANALYSIS**

| Parameter                 | Result | Units | RQL <sup>1</sup> | Blank | Date     | Method    |
|---------------------------|--------|-------|------------------|-------|----------|-----------|
| TPH by GC (as diesel)     | 1.96   | mg/Kg | 1                | <1    | 08/29/01 | 8015 mod  |
| TPH by GC (as diesel-ext) | ---    | ---   | ---              | ---   | 08/24/01 | 3540      |
| TPH by GC (as gasoline)   | <5     | mg/Kg | 5                | <5    | 08/27/01 | 8015 mod. |

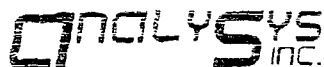
1. Reporting Quantitation Limit (RQL): typically at or above the Practical Quantitation Limit (PQL) of the analytical method.

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Report#/Lab ID#: 118529 Report Date: 08/30/01  
 Project ID: Darr Angell 4 EOT 2075C  
 Sample Name: MW 11 10'-12'  
 Sample Matrix: soil  
 Date Received: 08/23/2001 Time: 14:45  
 Date Sampled: 08/13/2001 Time: 09:13

### PRELIMINARY REPORT OF ANALYSIS

| Parameter                 | Result | Units | RQL <sup>1</sup> | Blank | Date     | Method    |
|---------------------------|--------|-------|------------------|-------|----------|-----------|
| TPH by GC (as diesel)     | 2.2    | mg/Kg | 1                | <1    | 08/29/01 | 8015 mod  |
| TPH by GC (as diesel-ext) | ---    | ---   | ---              | ---   | 08/24/01 | 3540      |
| TPH by GC (as gasoline)   | <5     | mg/Kg | 5                | <5    | 08/27/01 | 8015 mod. |

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**Report#/Lab ID#:** 118530 **Report Date:** 08/30/01  
**Project ID:** Dart Angell 4 EOT 2075C  
**Sample Name:** MW 11 15'-17'  
**Sample Matrix:** soil  
**Date Received:** 08/23/2001 **Time:** 14:45  
**Date Sampled:** 08/13/2001 **Time:** 09:19

**PRELIMINARY REPORT OF ANALYSIS**

| Parameter                 | Result | Units | RQL <sup>1</sup> | Blank | Date     | Method    |
|---------------------------|--------|-------|------------------|-------|----------|-----------|
| TPH by GC (as diesel)     | 1.27   | mg/Kg | 1                | <1    | 08/29/01 | 8015 mod  |
| TPH by GC (as diesel-ext) | ---    | ---   | ---              | ---   | 08/24/01 | 3540      |
| TPH by GC (as gasoline)   | <5     | mg/Kg | 5                | <5    | 08/27/01 | 8015 mod. |

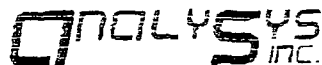
1. Reporting Quantitation Limit (RQL): typically at or above the Practical Quantitation Limit (PQL) of the analytical method.

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Report#/Lab ID#: 118531 Report Date: 08/30/01  
 Project ID: Darr Angell 4 EOT 2075C  
 Sample Name: MW 11 20'-22'  
 Sample Matrix: soil  
 Date Received: 08/23/2001 Time: 14:45  
 Date Sampled: 08/13/2001 Time: 09:26

### PRELIMINARY REPORT OF ANALYSIS

| Parameter                 | Result | Units | RQL <sup>1</sup> | Blank | Date     | Method    |
|---------------------------|--------|-------|------------------|-------|----------|-----------|
| TPH by GC (as diesel)     | 4.64   | mg/Kg | 1                | <1    | 08/29/01 | 8015 mod  |
| TPH by GC (as diesel-exi) | ---    | ---   | ---              | ---   | 08/24/01 | 3540      |
| TPH by GC (as gasoline)   | <5     | mg/Kg | 5                | <5    | 08/27/01 | 8015 mod. |

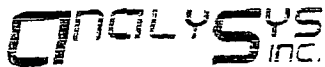
1. Reporting Quantitation Limit (RQL); typically at or above the Practical Quantitation Limit (PQL) of the analytical method.

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Report#/Lab ID#: 118532 Report Date: 08/30/01  
Project ID: Darr Angell 4 EOT 2075C  
Sample Name: MW 11 25'-27'  
Sample Matrix: soil  
Date Received: 08/23/2001 Time: 14:45  
Date Sampled: 08/13/2001 Time: 09:33

### PRELIMINARY REPORT OF ANALYSIS

| Parameter                 | Result | Units | RQL <sup>1</sup> | Blank | Date     | Method    |
|---------------------------|--------|-------|------------------|-------|----------|-----------|
| TPH by GC (as diesel)     | 6.58   | mg/Kg | 1                | <1    | 08/29/01 | 8015 mod  |
| TPH by GC (as diesel-ext) | ---    | ---   | ---              | ---   | 08/24/01 | 3540      |
| TPH by GC (as gasoline)   | <5     | mg/Kg | 5                | <5    | 08/27/01 | 8015 mod. |

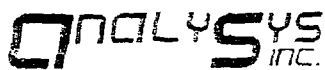
1. Reporting Quantitation Limit (RQL): typically at or above the Practical Quantitation Limit (PQL) of the analytical method.

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Report#/Lab ID#: 118533 Report Date: 09/06/01  
Project ID: Dart Angell 4 EOT 2075C  
Sample Name: MW 11 30'-32'  
Sample Matrix: soil  
Date Received: 08/23/2001 Time: 14:45  
Date Sampled: 08/13/2001 Time: 09:42

### PRELIMINARY REPORT OF ANALYSIS

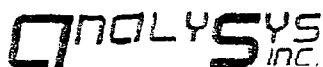
| Parameter                 | Result | Units | RQL <sup>1</sup> | Blank | Date     | Method    |
|---------------------------|--------|-------|------------------|-------|----------|-----------|
| TPH by GC (as diesel)     | 6.9    | mg/Kg | 1                | <1    | 08/29/01 | 8015 mod  |
| TPH by GC (as diesel-ext) | ---    | ---   | ---              | ---   | 08/31/01 | 3540      |
| TPH by GC (as gasoline)   | <5     | mg/Kg | 5                | <5    | 08/27/01 | 8015 mod. |

1. Reporting Quantitation Limit (RQL), typically at or above the Practical Quantitation Limit (PQL) of the analytical method.

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Report#/Lab ID#: 118534 Report Date: 09/06/01  
Project ID: Darr Angell 4 EOT 2075C  
Sample Name: MW 11 35'-37'  
Sample Matrix: soil  
Date Received: 08/23/2001 Time: 14:45  
Date Sampled: 08/13/2001 Time: 10:30

**PRELIMINARY REPORT OF ANALYSIS**

| Parameter                 | Result | Units | RQL <sup>1</sup> | Blank | Date     | Method    |
|---------------------------|--------|-------|------------------|-------|----------|-----------|
| TPH by GC (as diesel)     | 5.84   | mg/Kg | 1                | <1    | 08/29/01 | 8015 mod  |
| TPH by GC (as diesel-ext) | ---    | ---   | ---              | ---   | 08/31/01 | 3540      |
| TPH by GC (as gasoline)   | <5     | mg/Kg | 5                | <5    | 08/27/01 | 8015 mod. |

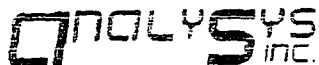
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Report#/Lab ID#: 118535 Report Date: 08/30/01  
 Project ID: Darr Angell 4 EOT 2075C  
 Sample Name: MW 11 40'-42'  
 Sample Matrix: soil  
 Date Received: 08/23/2001 Time: 14:45  
 Date Sampled: 08/13/2001 Time: 10:34

### PRELIMINARY REPORT OF ANALYSIS

| Parameter                 | Result | Units | RQL <sup>1</sup> | Blank | Date     | Method    |
|---------------------------|--------|-------|------------------|-------|----------|-----------|
| TPH by GC (as diesel)     | <1     | mg/Kg | 1                | <1    | 08/29/01 | 8015 mod  |
| TPH by GC (as diesel-exr) | ---    | ---   | ---              | ---   | 08/24/01 | 3540      |
| TPH by GC (as gasoline)   | <5     | mg/Kg | 5                | <5    | 08/27/01 | 8015 mod. |

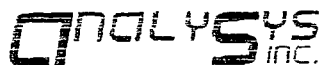
1. Reporting Quantitation Limit (RQL): typically at or above the Practical Quantitation Limit (PQL) of the analytical method.

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Report#/Lab ID#: 118536 Report Date: 08/30/01  
 Project ID: Darr Angell 4 EOT 2075C  
 Sample Name: MW 11 45'-47'  
 Sample Matrix: soil  
 Date Received: 08/23/2001 Time: 14:45  
 Date Sampled: 08/13/2001 Time: 10:40

### PRELIMINARY REPORT OF ANALYSIS

| Parameter                 | Result | Units | RQL <sup>1</sup> | Blank | Date     | Method    |
|---------------------------|--------|-------|------------------|-------|----------|-----------|
| TPH by GC (as diesel)     | 7.13   | mg/Kg | 1                | <1    | 08/29/01 | 8015 mod  |
| TPH by GC (as diesel-ext) | ---    | ---   | ---              | ---   | 08/24/01 | 3540      |
| TPH by GC (as gasoline)   | <5     | mg/Kg | 5                | <5    | 08/27/01 | 8015 mod. |

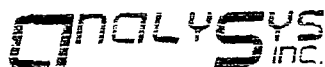
1. Reporting Quantitation Limit (RQL); typically at or above the Practical Quantitation Limit (PQL) of the analytical method.

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Respectfully Submitted,

*Richard Laster*

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Client: Environmental Tech Group

Attn: Ken Dunon

Address: 2540 W. Maryland  
 Hobbs

Nm 88240

Phone: 505 397-4882

FAX: 505 397-4701

Report#/Lab ID#: 118537 Report Date: 08/30/01

Project ID: Dar Angell 4 EOT 2075C

Sample Name: MW 11 50'-52'

Sample Matrix: soil

Date Received: 08/23/2001

Time: 14:45

Date Sampled: 08/13/2001

Time: 10:47

### PRELIMINARY REPORT OF ANALYSIS

| Parameter                 | Result | Units | RQL <sup>1</sup> | Blank | Date     | Method    |
|---------------------------|--------|-------|------------------|-------|----------|-----------|
| TPH by GC (as diesel)     | 5.82   | mg/Kg | 1                | <1    | 08/29/01 | 8015 mod  |
| TPH by GC (as diesel-ext) | ---    | ---   | ---              | ---   | 08/24/01 | 3540      |
| TPH by GC (as gasoline)   | <5     | mg/Kg | 5                | <5    | 08/27/01 | 8015 mod. |

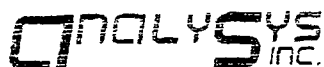
1. Reporting Quantitation Limit (RQL) typically at or above the Practical Quantitation Limit (PQL) of the analytical method.

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Report#/Lab ID#: 118538 Report Date: 08/30/01  
Project ID: Darr Angell 4 EOT 2075C  
Sample Name: MW 11 55'-57"  
Sample Matrix: soil  
Date Received: 08/23/2001 Time: 14:45  
Date Sampled: 08/13/2001 Time: 10:51

### PRELIMINARY REPORT OF ANALYSIS

| Parameter                 | Result | Units | RQL <sup>1</sup> | Blank | Date     | Method    |
|---------------------------|--------|-------|------------------|-------|----------|-----------|
| TPH by GC (as diesel)     | 2.17   | mg/Kg | 1                | <1    | 08/29/01 | 8015 mod  |
| TPH by GC (as diesel-ext) | ---    | ---   | ---              | ---   | 08/24/01 | 3540      |
| TPH by GC (as gasoline)   | <5     | mg/Kg | 5                | <5    | 08/27/01 | 8015 mod. |

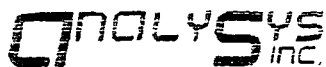
1. Reporting Quantitation Limit (RQL), typically at or above the Practical Quantitation Limit (PQL) of the analytical method.

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Phone: 505 397-4882 FAX: 505 397-4701

Report#/Lab ID#: 118539 Report Date: 08/30/01  
Project ID: Darr Angell 4 EOT 2075C  
Sample Name: MW 11 60'-62'  
Sample Matrix: soil  
Date Received: 08/23/2001 Time: 14:45  
Date Sampled: 08/13/2001 Time: 10:59

### PRELIMINARY REPORT OF ANALYSIS

| Parameter                 | Result | Units | RQL <sup>1</sup> | Blank | Date     | Method    |
|---------------------------|--------|-------|------------------|-------|----------|-----------|
| TPH by GC (as diesel)     | 1.47   | mg/Kg | 1                | <1    | 08/29/01 | 8015 mod  |
| TPH by GC (as diesel-ext) | ---    | ---   | ---              | ---   | 08/24/01 | 3540      |
| TPH by GC (as gasoline)   | <5     | mg/Kg | 5                | <5    | 08/27/01 | 8015 mod. |

1. Reporting Quantitation Limit (RQL), typically at or above the Practical Quantitation Limit (PQL) of the analytical method.

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Client: Environmental Tech Group  
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Report#/Lab ID#: 118540 Report Date: 08/30/01  
Project ID: Dat Angell 4 EOT 2075C  
Sample Name: MW 11 65'-67'  
Sample Matrix: soil  
Date Received: 08/23/2001 Time: 14:45  
Date Sampled: 08/13/2001 Time: 11:05

**PRELIMINARY REPORT OF ANALYSIS**

| Parameter                 | Result | Units | RQL <sup>1</sup> | Blank | Date     | Method    |
|---------------------------|--------|-------|------------------|-------|----------|-----------|
| TPH by GC (as diesel)     | 2.91   | mg/Kg | 1                | <1    | 08/29/01 | 8015 mod  |
| TPH by GC (as diesel-ext) | ---    | ---   | ---              | ---   | 08/24/01 | 3540      |
| TPH by GC (as gasoline)   | <5     | mg/Kg | 5                | <5    | 08/27/01 | 8015 mod. |

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Respectfully Submitted,

*Richard Laster*  
Richard Laster

|                                  |                                     |                       |
|----------------------------------|-------------------------------------|-----------------------|
| Client: Environmental Tech Group | Report#/Lab ID#: 118541             | Report Date: 08/30/01 |
| Attn: Ken Dutton                 | Project ID: Dart Angell 4 EOT 2075C |                       |
| Address: 2540 W. Maryland        | Sample Name: MW 12 0'-2'            |                       |
| Hobbs Nm 88240                   | Sample Matrix: soil                 |                       |
| Phone: 505 397-4882              | Date Received: 08/23/2001           | Time: 14:45           |
| FAX: 505 397-4701                | Date Sampled: 08/13/2001            | Time: 12:39           |

## PRELIMINARY REPORT OF ANALYSIS

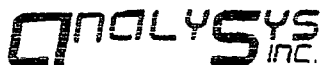
| Parameter                 | Result | Units | RQL <sup>1</sup> | Blank | Date     | Method    |
|---------------------------|--------|-------|------------------|-------|----------|-----------|
| TPH by GC (as diesel)     | 2.05   | mg/Kg | 1                | <1    | 08/29/01 | 8015 mod  |
| TPH by GC (as diesel-ext) | ---    | ---   | ---              | ---   | 08/24/01 | 3540      |
| TPH by GC (as gasoline)   | <5     | mg/Kg | 5                | <5    | 08/27/01 | 8015 mod. |

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Client: Environmental Tech Group  
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Phone: 505 397-4882 FAX: 505 397-4701

Report#/Lab ID#: 118542 Report Date: 08/30/01  
Project ID: Darr Angell 4 EOT 2075C  
Sample Name: MW 12 5'-7'  
Sample Matrix: soil  
Date Received: 08/23/2001 Time: 14:45  
Date Sampled: 08/13/2001 Time: 12:41

**PRELIMINARY REPORT OF ANALYSIS**

| Parameter                 | Result | Units | RQL <sup>1</sup> | Blank | Date     | Method    |
|---------------------------|--------|-------|------------------|-------|----------|-----------|
| TPH by GC (as diesel)     | <1     | mg/Kg | 1                | <1    | 08/29/01 | 8015 mod  |
| TPH by GC (as diesel-ext) | ---    | ---   | ---              | ---   | 08/24/01 | 3540      |
| TPH by GC (as gasoline)   | <5     | mg/Kg | 5                | <5    | 08/27/01 | 8015 mod. |

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Respectfully Submitted,

*Richard Laster*  
Richard Laster



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Hobbs Nm 88240  
**Phone:** 505 397-4882 **FAX:** 505 397-4701

**Report#/Lab ID#:** 118543 **Report Date:** 08/30/01  
**Project ID:** Dam Angell 4 EOT 2075C  
**Sample Name:** MW 12 10'-12'  
**Sample Matrix:** soil  
**Date Received:** 08/23/2001 **Time:** 14:45  
**Date Sampled:** 08/13/2001 **Time:** 12:51

**PRELIMINARY REPORT OF ANALYSIS**

| Parameter                 | Result | Units | RQL <sup>1</sup> | Blank | Date     | Method    |
|---------------------------|--------|-------|------------------|-------|----------|-----------|
| TPH by GC (as diesel)     | 13     | mg/Kg | 1                | <1    | 08/29/01 | 8015 mod  |
| TPH by GC (as diesel-ext) | ---    | ---   | ---              | ---   | 08/24/01 | 3540      |
| TPH by GC (as gasoline)   | <5     | mg/Kg | 5                | <5    | 08/27/01 | 8015 mod. |

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Richard Laster

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**Report#/Lab ID#:** 118544 **Report Date:** 08/30/01  
**Project ID:** Dart Angell 4 EOT 2075C  
**Sample Name:** MW 12 15'-17'  
**Sample Matrix:** soil  
**Date Received:** 08/23/2001 **Time:** 14:45  
**Date Sampled:** 08/13/2001 **Time:** 12:58

**PRELIMINARY REPORT OF ANALYSIS**

| Parameter                 | Result | Units | RQL <sup>1</sup> | Blank | Date     | Method    |
|---------------------------|--------|-------|------------------|-------|----------|-----------|
| TPH by GC (as diesel)     | <1     | mg/Kg | 1                | <1    | 08/29/01 | 8015 mod  |
| TPH by GC (as diesel-ext) | ---    | ---   | ---              | ---   | 08/24/01 | 3540      |
| TPH by GC (as gasoline)   | <5     | mg/Kg | 5                | <5    | 08/27/01 | 8015 mod. |

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**Report#/Lab ID#:** 118545 **Report Date:** 08/30/01  
**Project ID:** Dar Angell 4 EOT 2075C  
**Sample Name:** MW 12 20'-22'  
**Sample Matrix:** soil  
**Date Received:** 08/23/2001 **Time:** 14:45  
**Date Sampled:** 08/13/2001 **Time:** 13:06

### PRELIMINARY REPORT OF ANALYSIS

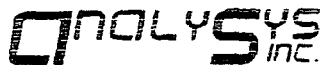
| Parameter                 | Result | Units | RQL <sup>1</sup> | Blank | Date     | Method    |
|---------------------------|--------|-------|------------------|-------|----------|-----------|
| TPH by GC (as diesel)     | 6.29   | mg/Kg | 1                | <1    | 08/29/01 | 8015 mod  |
| TPH by GC (as diesel-ext) | ---    | ---   | ---              | ---   | 08/24/01 | 3540      |
| TPH by GC (as gasoline)   | <5     | mg/Kg | 5                | <5    | 08/27/01 | 8015 mod. |

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Report#/Lab ID#: 118546 Report Date: 08/30/01  
Project ID: Darr Angell 4 EOT 2075C  
Sample Name: MW 12 25'-27'  
Sample Matrix: soil  
Date Received: 08/23/2001 Time: 14:45  
Date Sampled: 08/13/2001 Time: 13:12

### PRELIMINARY REPORT OF ANALYSIS

| Parameter                 | Result | Units | RQL <sup>1</sup> | Blank | Date     | Method    |
|---------------------------|--------|-------|------------------|-------|----------|-----------|
| TPH by GC (as diesel)     | 5.68   | mg/Kg | 1                | <1    | 08/29/01 | 8015 mod  |
| TPH by GC (as diesel-ext) | ---    | ---   | ---              | ---   | 08/24/01 | 3540      |
| TPH by GC (as gasoline)   | <5     | mg/Kg | 5                | <5    | 08/27/01 | 8015 mod. |

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**Report#/Lab ID#:** 118547 **Report Date:** 08/30/01  
**Project ID:** Dam Angell 4 EOT 2075C  
**Sample Name:** MW 12 30'-32'  
**Sample Matrix:** soil  
**Date Received:** 08/23/2001 **Time:** 14:45  
**Date Sampled:** 08/13/2001 **Time:** 13:16

### PRELIMINARY REPORT OF ANALYSIS

| Parameter                 | Result | Units | RQL <sup>1</sup> | Blank | Date     | Method    |
|---------------------------|--------|-------|------------------|-------|----------|-----------|
| TPH by GC (as diesel)     | 1.56   | mg/Kg | 1                | <1    | 08/29/01 | 8015 mod  |
| TPH by GC (as diesel-ext) | ---    | ---   | ---              | ---   | 08/24/01 | 3540      |
| TPH by GC (as gasoline)   | <5     | mg/Kg | 5                | <5    | 08/27/01 | 8015 mod. |

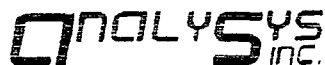
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**Report#/Lab ID#:** 118548 **Report Date:** 08/30/01  
**Project ID:** Darr Angell 4 EOT 2075C  
**Sample Name:** MW 12 35'-37'  
**Sample Matrix:** soil  
**Date Received:** 08/23/2001 **Time:** 14:45  
**Date Sampled:** 08/13/2001 **Time:** 13:53

### PRELIMINARY REPORT OF ANALYSIS

| Parameter                 | Result | Units | RQL <sup>1</sup> | Blank | Date     | Method    |
|---------------------------|--------|-------|------------------|-------|----------|-----------|
| TPH by GC (as diesel)     | 11.2   | mg/Kg | 1                | <1    | 08/29/01 | 8015 mod  |
| TPH by GC (as diesel-ext) | ---    | ---   | ---              | ---   | 08/24/01 | 3540      |
| TPH by GC (as gasoline)   | <5     | mg/Kg | 5                | <5    | 08/27/01 | 8015 mod. |

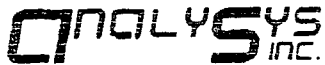
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Report#/Lab ID#: 118549 Report Date: 08/30/01  
Project ID: Darr Angell 4 EOT 2075C  
Sample Name: MW 12 40'-42'  
Sample Matrix: soil  
Date Received: 08/23/2001 Time: 14:45  
Date Sampled: 08/13/2001 Time: 13:57

### PRELIMINARY REPORT OF ANALYSIS

| Parameter                 | Result | Units | RQL <sup>1</sup> | Blank | Date     | Method    |
|---------------------------|--------|-------|------------------|-------|----------|-----------|
| TPH by GC (as diesel)     | 1.92   | mg/Kg | 1                | <1    | 08/29/01 | 8015 mod  |
| TPH by GC (as diesel-ext) | ---    | ---   | ---              | ---   | 08/24/01 | 3540      |
| TPH by GC (as gasoline)   | <5     | mg/Kg | 5                | <5    | 08/27/01 | 8015 mod. |

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**Report#/Lab ID#:** 118550 **Report Date:** 08/30/01  
**Project ID:** Darr Angell 4 EOT 2075C  
**Sample Name:** MW 12 45'-47'  
**Sample Matrix:** soil  
**Date Received:** 08/23/2001 **Time:** 14:45  
**Date Sampled:** 08/13/2001 **Time:** 14:00

## PRELIMINARY REPORT OF ANALYSIS

| Parameter                 | Result | Units | RQL <sup>1</sup> | Blank | Date     | Method    |
|---------------------------|--------|-------|------------------|-------|----------|-----------|
| TPH by GC (as diesel)     | 1.27   | mg/Kg | 1                | <1    | 08/29/01 | 8015 mod  |
| TPH by GC (as diesel-ext) | ---    | ---   | ---              | ---   | 08/24/01 | 3540      |
| TPH by GC (as gasoline)   | <5     | mg/Kg | 5                | <5    | 08/27/01 | 8015 mod. |

1. Reporting Quantitation Limit (RQL); typically at or above the Practical Quantitation Limit (PQL) of the analytical method.

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Respectfully Submitted.

*Richard Laster*  
Richard Laster



**Client:** Environmental Tech Group  
**Attn:** Ken Dutton  
**Address:** 2540 W. Maryland  
 Hobbs Nm 88240  
**Phone:** 505 397-4882 **FAX:** 505 397-4701

**Report#/Lab ID#:** 118551 **Report Date:** 08/30/01  
**Project ID:** Darr Angell 4 EOT 2075C  
**Sample Name:** MW 12 50'-52'  
**Sample Matrix:** soil  
**Date Received:** 08/23/2001 **Time:** 14:45  
**Date Sampled:** 08/13/2001 **Time:** 14:05

### PRELIMINARY REPORT OF ANALYSIS

| Parameter                 | Result | Units | RQL <sup>1</sup> | Blank | Date     | Method    |
|---------------------------|--------|-------|------------------|-------|----------|-----------|
| TPH by GC (as diesel)     | 5.47   | mg/Kg | 1                | <1    | 08/29/01 | 8015 mod  |
| TPH by GC (as diesel-ext) | ---    | ---   | ---              | ---   | 08/24/01 | 3540      |
| TPH by GC (as gasoline)   | <5     | mg/Kg | 5                | <5    | 08/27/01 | 8015 mod. |

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Respectfully Submitted,

*Richard Laster*  
 Richard Laster

**Client:** Environmental Tech Group  
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Hobbs Nm 88240  
**Phone:** 505 397-4882 **FAX:** 505 397-4701

**Report#/Lab ID#:** 118552 **Report Date:** 08/30/01  
**Project ID:** Darr Angell 4 EOT 2075C  
**Sample Name:** MW 12 55'-57'  
**Sample Matrix:** soil  
**Date Received:** 08/23/2001 **Time:** 14:45  
**Date Sampled:** 08/13/2001 **Time:** 14:10

## PRELIMINARY REPORT OF ANALYSIS

| Parameter                 | Result | Units | RQL <sup>1</sup> | Blank | Date     | Method    |
|---------------------------|--------|-------|------------------|-------|----------|-----------|
| TPH by GC (as diesel)     | <1     | mg/Kg | 1                | <1    | 08/29/01 | 8015 mod  |
| TPH by GC (as diesel-ext) | ---    | ---   | ---              | ---   | 08/24/01 | 3540      |
| TPH by GC (as gasoline)   | <5     | mg/Kg | 5                | <5    | 08/27/01 | 8015 mod. |

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Respectfully Submitted,

*Richard Laster*

Richard Laster

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**Phone:** 505 397-4882 **FAX:** 505 397-4701

**Report#/Lab ID#:** 118553 **Report Date:** 08/30/01  
**Project ID:** Dart Angell 4 EOT 2075C  
**Sample Name:** MW 12 60'-62'  
**Sample Matrix:** soil  
**Date Received:** 08/23/2001 **Time:** 14:45  
**Date Sampled:** 08/13/2001 **Time:** 14:14

**PRELIMINARY REPORT OF ANALYSIS**

| Parameter                 | Result | Units | RQL <sup>1</sup> | Blank | Date     | Method    |
|---------------------------|--------|-------|------------------|-------|----------|-----------|
| TPH by GC (as diesel)     | 6.01   | mg/Kg | 1                | <1    | 08/29/01 | 8015 mod  |
| TPH by GC (as diesel-ext) | ---    | ---   | ---              | ---   | 08/24/01 | 3540      |
| TPH by GC (as gasoline)   | <5     | mg/Kg | 5                | <5    | 08/27/01 | 8015 mod. |

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Respectfully Submitted,

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Richard Laster

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Phone: 505 397-4882 FAX: 505 397-4701

Report#/Lab ID#: 118554 Report Date: 08/30/01  
Project ID: Dart Angell 4 EOT 2075C  
Sample Name: MW 12 65'-67'  
Sample Matrix: soil  
Date Received: 08/23/2001 Time: 14:45  
Date Sampled: 08/13/2001 Time: 14:22

**PRELIMINARY REPORT OF ANALYSIS**

| Parameter                 | Result | Units | RQL <sup>1</sup> | Blank | Date     | Method    |
|---------------------------|--------|-------|------------------|-------|----------|-----------|
| TPH by GC (as diesel)     | 11.1   | mg/Kg | 1                | <1    | 08/29/01 | 8015 mod  |
| TPH by GC (as diesel-ext) | ---    | ---   | ---              | ---   | 08/24/01 | 3540      |
| TPH by GC (as gasoline)   | <5     | mg/Kg | 5                | <5    | 08/27/01 | 8015 mod. |

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*Richard Laster*  
Richard Laster

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 Hobbs Nm 88240  
**Phone:** 505 397-4882 **FAX:** 505 397-4701

**Report#/Lab ID#:** 118555 **Report Date:** 08/30/01  
**Project ID:** Darr Angell 4 EOT 2075C  
**Sample Name:** MW 13 0'-2'  
**Sample Matrix:** soil  
**Date Received:** 08/23/2001 **Time:** 14:45  
**Date Sampled:** 08/14/2001 **Time:** 09:18

### PRELIMINARY REPORT OF ANALYSIS

| Parameter                 | Result | Units | RQL <sup>1</sup> | Blank | Date     | Method    |
|---------------------------|--------|-------|------------------|-------|----------|-----------|
| TPH by GC (as diesel)     | 14.6   | mg/Kg | 1                | <1    | 08/29/01 | 8015 mod  |
| TPH by GC (as diesel-ext) | ---    | ---   | ---              | ---   | 08/24/01 | 3540      |
| TPH by GC (as gasoline)   | <5     | mg/Kg | 5                | <5    | 08/28/01 | 8015 mod. |

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Respectfully Submitted,

*Richard Laster*  
 Richard Laster

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**Phone:** 505 397-4882 **FAX:** 505 397-4701

**Report#/Lab ID#:** 118556 **Report Date:** 08/30/01  
**Project ID:** Darr Angell 4 EOT 2075C  
**Sample Name:** MW 13 5'-7'  
**Sample Matrix:** soil  
**Date Received:** 08/23/2001 **Time:** 14:45  
**Date Sampled:** 08/14/2001 **Time:** 09:20

### PRELIMINARY REPORT OF ANALYSIS

| Parameter                 | Result | Units | RQL <sup>1</sup> | Blank | Date     | Method    |
|---------------------------|--------|-------|------------------|-------|----------|-----------|
| TPH by GC (as diesel)     | 1.53   | mg/Kg | 1                | <1    | 08/29/01 | 8015 mod  |
| TPH by GC (as diesel-ext) | ---    | ---   | ---              | ---   | 08/27/01 | 3540      |
| TPH by GC (as gasoline)   | <5     | mg/Kg | 5                | <5    | 08/28/01 | 8015 mod. |

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**Report#/Lab ID#:** 118557 **Report Date:** 08/30/01  
**Project ID:** Darr Angell 4 EOT 2075C  
**Sample Name:** MW 13 10'-12'  
**Sample Matrix:** soil  
**Date Received:** 08/23/2001 **Time:** 14:45  
**Date Sampled:** 08/14/2001 **Time:** 09:28

**PRELIMINARY REPORT OF ANALYSIS**

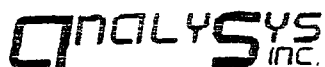
| Parameter                 | Result | Units | RQL <sup>1</sup> | Blank | Date     | Method    |
|---------------------------|--------|-------|------------------|-------|----------|-----------|
| TPH by GC (as diesel)     | 4.39   | mg/Kg | 1                | <1    | 08/29/01 | 8015 mod  |
| TPH by GC (as diesel-ext) | ---    | ---   | ---              | ---   | 08/27/01 | 3540      |
| TPH by GC (as gasoline)   | <5     | mg/Kg | 5                | <5    | 08/28/01 | 8015 mod. |

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Respectfully Submitted,

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Richard Laster



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**Report#/Lab ID#:** 118558 **Report Date:** 08/30/01  
**Project ID:** Darr Angell 4 EOT 2075C  
**Sample Name:** MW 13 15'-17'  
**Sample Matrix:** soil  
**Date Received:** 08/23/2001 **Time:** 14:45  
**Date Sampled:** 08/14/2001 **Time:** 09:36

### PRELIMINARY REPORT OF ANALYSIS

| Parameter                 | Result | Units | RQL <sup>1</sup> | Blank | Date     | Method    |
|---------------------------|--------|-------|------------------|-------|----------|-----------|
| TPH by GC (as diesel)     | 8.12   | mg/Kg | 1                | <1    | 08/30/01 | 8015 mod  |
| TPH by GC (as diesel-ext) | ---    | ---   | ---              | ---   | 08/27/01 | 3540      |
| TPH by GC (as gasoline)   | <5     | mg/Kg | 5                | <5    | 08/28/01 | 8015 mod. |

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Respectfully Submitted,

*Richard Laster*

Richard Laster



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Report#/Lab ID#: 118559 Report Date: 08/30/01  
Project ID: Darr Angell 4 EOT 2075C  
Sample Name: MW 13 20'-22'  
Sample Matrix: soil  
Date Received: 08/23/2001 Time: 14:45  
Date Sampled: 08/14/2001 Time: 09:43

**PRELIMINARY REPORT OF ANALYSIS**

| Parameter                 | Result | Units | RQL <sup>1</sup> | Blank | Date     | Method    |
|---------------------------|--------|-------|------------------|-------|----------|-----------|
| TPH by GC (as diesel)     | 7.19   | mg/Kg | 1                | <1    | 08/30/01 | 8015 mod  |
| TPH by GC (as diesel-ext) | ---    | ---   | ---              | ---   | 08/27/01 | 3540      |
| TPH by GC (as gasoline)   | <5     | mg/Kg | 5                | <5    | 08/28/01 | 8015 mod. |

1. Reporting Quantitation Limit (RQL); typically at or above the Practical Quantitation Limit (PQL) of the analytical method.

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Respectfully Submitted,

*Richard Laster*  
Richard Laster

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Hobbs Nm 88240  
**Phone:** 505 397-4882 **FAX:** 505 397-4701

**Report#/Lab ID#:** 118560 **Report Date:** 09/04/01  
**Project ID:** Darr Angell 4 EOT 2075C  
**Sample Name:** MW 13 25'-27'  
**Sample Matrix:** soil  
**Date Received:** 08/23/2001 **Time:** 14:45  
**Date Sampled:** 08/14/2001 **Time:** 09:51

## PRELIMINARY REPORT OF ANALYSIS

| Parameter                 | Result | Units | RQL <sup>1</sup> | Blank | Date     | Method    |
|---------------------------|--------|-------|------------------|-------|----------|-----------|
| TPH by GC (as diesel)     | 6.44   | mg/Kg | 1                | <1    | 08/31/01 | 8015 mod  |
| TPH by GC (as diesel-ext) | ---    | ---   | ---              | ---   | 08/27/01 | 3540      |
| TPH by GC (as gasoline)   | <5     | mg/Kg | 5                | <5    | 08/28/01 | 8015 mod. |

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*Richard Laster*  
Richard Laster

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Report#/Lab ID#: 118561 Report Date: 08/30/01  
Project ID: Darr Angell 4 EOT 2075C  
Sample Name: MW 13 30'-32'  
Sample Matrix: soil  
Date Received: 08/23/2001 Time: 14:45  
Date Sampled: 08/14/2001 Time: 09:56

**PRELIMINARY REPORT OF ANALYSIS**

| Parameter                 | Result | Units | RQL <sup>1</sup> | Blank | Date     | Method    |
|---------------------------|--------|-------|------------------|-------|----------|-----------|
| TPH by GC (as diesel)     | 8.42   | mg/Kg | 1                | <1    | 08/30/01 | 8015 mod  |
| TPH by GC (as diesel-ext) | ---    | ---   | ---              | ---   | 08/27/01 | 3540      |
| TPH by GC (as gasoline)   | <5     | mg/Kg | 5                | <5    | 08/28/01 | 8015 mod. |

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*Richard Laster*  
Richard Laster

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**Phone:** 505 397-4882 **FAX:** 505 397-4701

**Report#/Lab ID#:** 118562 **Report Date:** 08/30/01  
**Project ID:** Darr Angell 4 EOT 2075C  
**Sample Name:** MW 13 35'-37'  
**Sample Matrix:** soil  
**Date Received:** 08/23/2001 **Time:** 14:45  
**Date Sampled:** 08/14/2001 **Time:** 10:29

**PRELIMINARY REPORT OF ANALYSIS**

| Parameter                 | Result | Units | RQL <sup>1</sup> | Blank | Date     | Method    |
|---------------------------|--------|-------|------------------|-------|----------|-----------|
| TPH by GC (as diesel)     | 23.4   | mg/Kg | 1                | <1    | 08/30/01 | 8015 mod  |
| TPH by GC (as diesel-ext) | ---    | ---   | ---              | ---   | 08/27/01 | 3540      |
| TPH by GC (as gasoline)   | <5     | mg/Kg | 5                | <5    | 08/28/01 | 8015 mod. |

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Respectfully Submitted,

*Richard Laster*

Richard Laster

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Report#/Lab ID#: 118563 Report Date: 08/30/01  
Project ID: Darr Angeli 4 EOT 2075C  
Sample Name: MW 13 40'-42'  
Sample Matrix: soil  
Date Received: 08/23/2001 Time: 14:45  
Date Sampled: 08/14/2001 Time: 10:42

**PRELIMINARY REPORT OF ANALYSIS**

| Parameter                 | Result | Units | RQL <sup>1</sup> | Blank | Date     | Method    |
|---------------------------|--------|-------|------------------|-------|----------|-----------|
| TPH by GC (as diesel)     | 1.94   | mg/Kg | 1                | <1    | 08/30/01 | 8015 mod  |
| TPH by GC (as diesel-ext) | ---    | ---   | ---              | ---   | 08/27/01 | 3540      |
| TPH by GC (as gasoline)   | <5     | mg/Kg | 5                | <5    | 08/28/01 | 8015 mod. |

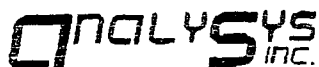
1. Reporting Quantitation Limit (RQL); typically at or above the Practical Quantitation Limit (PQL) of the analytical method.

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Richard Laster



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Client: Environmental Tech Group  
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Phone: 505 397-4882 FAX: 505 397-4701

Report#/Lab ID#: 118564 Report Date: 08/30/01  
Project ID: Darr Angell 4 EOT 2075C  
Sample Name: MW 13 45'-47'  
Sample Matrix: soil  
Date Received: 08/23/2001 Time: 14:45  
Date Sampled: 08/14/2001 Time: 10:45

**PRELIMINARY REPORT OF ANALYSIS**

| Parameter                 | Result | Units | RQL <sup>1</sup> | Blank | Date     | Method    |
|---------------------------|--------|-------|------------------|-------|----------|-----------|
| TPH by GC (as diesel)     | 5.82   | mg/Kg | 1                | <1    | 08/30/01 | 8015.mod  |
| TPH by GC (as diesel-ext) | ---    | ---   | ---              | ---   | 08/27/01 | 3540      |
| TPH by GC (as gasoline)   | <5     | mg/Kg | 5                | <5    | 08/28/01 | 8015 mod. |

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Respectfully Submitted,

*Richard Laster*  
Richard Laster

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**Phone:** 505 397-4882 **FAX:** 505 397-4701

**Report#/Lab ID#:** 118565 **Report Date:** 08/30/01  
**Project ID:** Darr Angell 4 EOT 2075C  
**Sample Name:** MW 13 50'-52'  
**Sample Matrix:** soil  
**Date Received:** 08/23/2001 **Time:** 14:45  
**Date Sampled:** 08/14/2001 **Time:** 10:53

**PRELIMINARY REPORT OF ANALYSIS**

| Parameter                 | Result | Units | RQL <sup>1</sup> | Blank | Date     | Method    |
|---------------------------|--------|-------|------------------|-------|----------|-----------|
| TPH by GC (as diesel)     | 5.66   | mg/Kg | 1                | <1    | 08/30/01 | 8015 mod  |
| TPH by GC (as diesel-ext) | ---    | ---   | ---              | ---   | 08/27/01 | 3540      |
| TPH by GC (as gasoline)   | <5     | mg/Kg | 5                | <5    | 08/28/01 | 8015 mod. |

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Richard Laster

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**Report#/Lab ID#:** 118566 **Report Date:** 08/30/01  
**Project ID:** Darr Angell 4 EOT 2075C  
**Sample Name:** MW 13 55'-57'  
**Sample Matrix:** soil  
**Date Received:** 08/23/2001 **Time:** 14:45  
**Date Sampled:** 08/14/2001 **Time:** 10:59

**PRELIMINARY REPORT OF ANALYSIS**

| Parameter                 | Result | Units | RQL <sup>1</sup> | Blank | Date     | Method    |
|---------------------------|--------|-------|------------------|-------|----------|-----------|
| TPH by GC (as diesel)     | 2.47   | mg/Kg | 1                | <1    | 08/30/01 | 8015 mod  |
| TPH by GC (as diesel-ext) | ---    | ---   | ---              | ---   | 08/27/01 | 3540      |
| TPH by GC (as gasoline)   | <5     | mg/Kg | 5                | <5    | 08/28/01 | 8015 mod. |

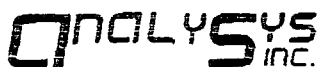
1. Reporting Quantitation Limit (RQL); typically at or above the Practical Quantitation Limit (PQL) of the analytical method.

This preliminary analytical report is respectfully submitted by AnalySys, Inc. The enclosed data may not have received final review for full compliance with AnalySys, Inc.'s QA/QC program or for completeness. Although the reported results contained herein are believed to be correct, based upon initial data review, final QA/QC review may result in results different from those reported herein. © Copyright 2000, AnalySys, Inc., Austin, TX. All rights reserved. No part of this publication may be reproduced or transmitted in any form or by any means without the express written consent of AnalySys, Inc.

Respectfully Submitted,

*Richard Laster*  
Richard Laster





4221 Freidrich Lane, Suite 190, Austin, TX 78744 &  
2209 N. Padre Island Dr., Corpus Christi, TX 78408  
(512) 444-5896 • FAX (512) 447-4766

Client: Environmental Tech Group  
Attn: Ken Dutton  
Address: 2540 W. Maryland  
Hobbs Nm 88240  
Phone: 505 397-4882 FAX: 505 397-4701

Report#/Lab ID#: 118567 Report Date: 08/30/01  
Project ID: Darr Angeli 4 EOT 2075C  
Sample Name: MW 13 60'-62'  
Sample Matrix: soil  
Date Received: 08/23/2001 Time: 14:45  
Date Sampled: 08/14/2001 Time: 11:05

**PRELIMINARY REPORT OF ANALYSIS**

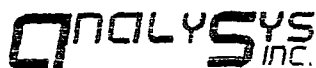
| Parameter                 | Result | Units | RQL <sup>1</sup> | Blank | Date     | Method    |
|---------------------------|--------|-------|------------------|-------|----------|-----------|
| TPH by GC (as diesel)     | 5.25   | mg/Kg | 1                | <1    | 08/30/01 | 8015 mod  |
| TPH by GC (as diesel-ext) | ---    | ---   | ---              | ---   | 08/27/01 | 3540      |
| TPH by GC (as gasoline)   | <5     | mg/Kg | 5                | <5    | 08/28/01 | 8015 mod. |

1. Reporting Quantitation Limit (RQL): typically at or above the Practical Quantitation Limit (PQL) of the analytical method.

This preliminary analytical report is respectfully submitted by AnalySys, Inc. The enclosed data may not have received final review for full compliance with AnalySys, Inc.'s QA/QC program or for completeness. Although the reported results contained herein are believed to be correct, based upon initial data review, final QA/QC review may result in results different from those reported herein. © Copyright 2000, AnalySys, Inc., Austin, TX. All rights reserved. No part of this publication may be reproduced or transmitted in any form or by any means without the express written consent of AnalySys, Inc.

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*Richard Laster*  
Richard Laster



4221 Freidrich Lane, Suite 190, Austin, TX 78744 &  
2209 N. Padre Island Dr., Corpus Christi, TX 78408  
(512) 444-5896 • FAX (512) 447-4766

**Client:** Environmental Tech Group  
**Attn:** Ken Dutton  
**Address:** 2540 W. Maryland  
Hobbs Nm 88240  
**Phone:** 505 397-4882 **FAX:** 505 397-4701

**Report#/Lab ID#:** 118568 **Report Date:** 08/30/01  
**Project ID:** Darr Angell 4 EOT 2075C  
**Sample Name:** MW 13 65'-67'  
**Sample Matrix:** soil  
**Date Received:** 08/23/2001 **Time:** 14:45  
**Date Sampled:** 08/14/2001 **Time:** 11:10

### PRELIMINARY REPORT OF ANALYSIS

| Parameter                 | Result | Units | RQL <sup>1</sup> | Blank | Date     | Method    |
|---------------------------|--------|-------|------------------|-------|----------|-----------|
| TPH by GC (as diesel)     | 6.34   | mg/Kg | 1                | <1    | 08/30/01 | 8015 mod  |
| TPH by GC (as diesel-ext) | ---    | ---   | ---              | ---   | 08/27/01 | 3540      |
| TPH by GC (as gasoline)   | <5     | mg/Kg | 5                | <5    | 08/28/01 | 8015 mod. |

1. Reporting Quantitation Limit (RQL): typically at or above the Practical Quantitation Limit (PQL) of the analytical method.

This preliminary analytical report is respectfully submitted by AnalySys, Inc. The enclosed data may not have received final review for full compliance with AnalySys, Inc.'s QA/QC program or for completeness. Although the reported results contained herein are believed to be correct, based upon initial data review, final QA/QC review may result in results different from those reported herein. © Copyright 2000, AnalySys, Inc., Austin, TX. All rights reserved. No part of this publication may be reproduced or transmitted in any form or by any means without the express written consent of AnalySys, Inc.

Respectfully Submitted,

*Richard Laster*

Richard Laster

# CHAIN-OF-CUSTODY

Send Reports to:

Company Name ETG

Address 2540 W. Marland

City Holbrook State NM Zip 88240

ATTN: Ken Dutton

Phone (505) 397-4882 Fax (505) 397-4701

Rush Status (must be confirmed with lab mgr.):

Project Name/PO#: Base Angell & Sampler: Camille Reynolds

FOR 2075C

Bill to (if different):

Company Name EOTT

Address

City State Zip

ATTN: Fax

Phone

| Client Sample No.<br>Description/Identification | Date<br>Sampled | Time<br>Sampled | No. of<br>Containers | Soil | Water/Waste | Lab I.D. #<br>(Lab only) |
|-------------------------------------------------|-----------------|-----------------|----------------------|------|-------------|--------------------------|
| MW9 0'-2'                                       | 8-9-01          | 8:40            | 1                    | X    |             | 118499                   |
| MW9 5'-7'                                       |                 | 9:00            |                      |      |             | 118500                   |
| MW9 10'-12'                                     |                 | 9:40            |                      |      |             | 118501                   |
| MW9 15'-17'                                     |                 | 9:59            |                      |      |             | 118502                   |
| MW9 20'-22'                                     |                 | 10:03           |                      |      |             | 118503                   |
| MW9 25'-27'                                     |                 | 10:09           |                      |      |             | 118504                   |
| MW9 30'-32'                                     |                 | 10:48           |                      |      |             | 118505                   |
| MW9 35'-37'                                     |                 | 11:30           |                      |      |             | 118506                   |
| MW9 40'-42'                                     |                 | 11:35           |                      |      |             | 118507                   |
| MW9 45'-47'                                     |                 | 11:40           |                      |      |             | 118508                   |

Comments

Analyses Requested (1)

Please attach explanatory information as required

(1) Unless 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 limits (MDL/POL). 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 ASI's HSL list at ASI's option. Specific compound lists must be supplied for all GC procedures.

Temp. i.O.C.

| Sample Relinquished By |            |         | Sample Received By |            |         |
|------------------------|------------|---------|--------------------|------------|---------|
| Name                   | Ampliation | Date    | Name               | Ampliation | Date    |
| Camille Reynolds       |            | 8-22-01 | E. L. Reynolds     | AS-5       | 8/23/01 |
|                        |            |         |                    |            | 14:45   |

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

ANALYSYS INC.

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

Coc # 111 1287

# OF CUSTODY

Lead Reports To:

Company Name ETG  
 Address 2540 W. MacLand  
 City Hobbs State NM Zip 88240  
 ATTN: Ben Dutton  
 Phone 505-397-9812 Fax 505-397-4701

Rush Status (must be confirmed with lab mgr.):

Project Name/PO#: Durr Angel 4 Sampler: Carmille Reynolds

EOI 2075C

GC#111 2037  
 Bill to (if different):

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

4221 Freidrich Lane, Suite 190, Austin, TX 78744  
 (512) 441-5896

## Analyses Requested (1)

Please attach explanatory information as required

| Client Sample No.<br>Description/Identification | Date<br>Sampled | Time<br>Sampled | No. of<br>Containers | Soil | Water | Waste | Lab I.D. #<br>(Lab only) | Comments |
|-------------------------------------------------|-----------------|-----------------|----------------------|------|-------|-------|--------------------------|----------|
| MW29 50'-52'                                    | 8-9-01          | 11:48           | 1                    | X    |       |       | 118509                   | X        |
| MW29 55'-57'                                    |                 | 11:52           | 1                    |      |       |       | 118510                   |          |
| MW29 60'-62'                                    |                 | 11:59           | 1                    |      |       |       | 118511                   |          |
| MW29 65'-67'                                    |                 | 12:05           | 1                    |      |       |       | 118512                   |          |
| MW10 0'-2'                                      | 8-10-01         | 9:55            |                      |      |       |       | 118513                   |          |
| MW10 5'-7'                                      |                 | 10:11           |                      |      |       |       | 118514                   |          |
| MW10 10'-12'                                    |                 | 10:22           |                      |      |       |       | 118515                   |          |
| MW10 15'-17'                                    |                 | 10:29           |                      |      |       |       | 118516                   |          |
| MW10 20'-22'                                    |                 | 10:35           |                      |      |       |       | 118517                   |          |
| MW10 25'-27'                                    |                 | 10:50           |                      |      |       |       | 118518                   |          |

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Temp: 1.0°C

| Sample Relinquished By |             |               | Sample Received By |             |               |
|------------------------|-------------|---------------|--------------------|-------------|---------------|
| Name                   | Affiliation | Date          | Name               | Affiliation | Date          |
| Carmille Reynolds      |             | 8-22-01 12:00 | EOI                | ASI         | 8-23-01 14:45 |

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

# FOR CUSTODY

Send Reports To:

Company Name ETG

Address 2540 W. Marland

City Hobbs State NM Zip 88240

ATTN: Ken Dutton

Phone (505) 397-4882 Fax (505) 397-4701

Bill to (if different):

Company Name ETG

Address

City

ATTN:

Phone

Rush Status (must be confirmed with lab mgr.):

Project Name/PO#: Dart Pkg 114 Sampler: Camille Reynolds

EOI 2075C

| Client Sample No.<br>Description/Identification | Date<br>Sampled | Time<br>Sampled | No. of<br>Containers | Soil | Water | Waste | Lab I.D. #<br>(Lab only) |
|-------------------------------------------------|-----------------|-----------------|----------------------|------|-------|-------|--------------------------|
| MW10 30'-32'                                    | 8-10-01         | 10:59           | 1                    | X    |       |       | 118519                   |
| MW10 35'-37'                                    |                 | 11:07           |                      |      |       |       | 118520                   |
| MW10 40'-42'                                    |                 | 11:14           |                      |      |       |       | 118521                   |
| MW10 45'-47'                                    |                 | 11:21           |                      |      |       |       | 118522                   |
| MW10 50'-52'                                    |                 | 11:29           |                      |      |       |       | 118523                   |
| MW10 55'-57'                                    |                 | 11:33           |                      |      |       |       | 118524                   |
| MW10 60'-62'                                    |                 | 11:37           |                      |      |       |       | 118525                   |
| MW10 65'-67'                                    |                 | 11:42           |                      |      |       |       | 118526                   |
| MW11 0'-2'                                      | 8-13-01         | 9:06            |                      |      |       |       | 118527                   |
| MW11 5'-7'                                      |                 | 9:09            |                      |      |       |       | 118528                   |

(1) Unless 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 limits (MDL/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 ASI's HSL list at ASI's option. Specific compound lists must be supplied for all GC procedures.

Temp. 1.0°C

| Sample Relinquished By |             |               | Sample Received By |             |               |
|------------------------|-------------|---------------|--------------------|-------------|---------------|
| Name                   | Affiliation | Date          | Name               | Affiliation | Date          |
| Camille Reynolds       |             | 8-22-01 12:00 | E. L. F.           | ASI         | 8-23-01 14:45 |

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Analyses Requested (1)

Please attach explanatory information as required

TOP HVS 08-09-01

Comments

X

Coc # 111 387

ANALYSYS INC.

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

# כחול שמרן

**Bill to (if different):**

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

Company Name ETG1 Company Name EOIT  
Address 2540 W. Marland Address \_\_\_\_\_  
City Hobbs State NM Zip 88240 City \_\_\_\_\_ State \_\_\_\_\_ Zip \_\_\_\_\_  
ATTN: Ben Dutton ATTN: \_\_\_\_\_  
Phone 505 397-4882 Phone \_\_\_\_\_  
Fax 505 397-4701 Fax \_\_\_\_\_

**Rush Status (must be confirmed with lab, mgr.):**

Project Name/PO#: Daff Angell  
Sampler: Amille Reynolds

| Client Sample No.<br>Description/Identification | Date<br>Sampled | Time<br>Sampled | No. of<br>Containers | Soil | Water | Waste | Lab I.D. #<br>(Lab only) |
|-------------------------------------------------|-----------------|-----------------|----------------------|------|-------|-------|--------------------------|
| MW 11 10'-12'                                   | 8-30-11         | 9:13            | 1                    | X    |       |       | 118529                   |
| MW 11 15'-17'                                   |                 | 9:19            | 1                    |      |       |       | 118530                   |
| MW 11 20'-22'                                   |                 | 9:26            | 1                    |      |       |       | 118531                   |
| MW 11 25'-27'                                   |                 | 9:33            | 1                    |      |       |       | 118532                   |
| MW 11 30'-32'                                   |                 | 9:42            | 1                    |      |       |       | 118533                   |
| MW 11 35'-37'                                   |                 | 10:30           | 1                    |      |       |       | 118534                   |
| MW 11 40'-42'                                   |                 | 10:34           | 1                    |      |       |       | 118535                   |
| MW 11 45'-47'                                   |                 | 10:40           | 1                    |      |       |       | 118536                   |
| MW 11 50'-52'                                   |                 | 10:47           | 1                    |      |       |       | 118537                   |
| MW 11 55'-57'                                   |                 | 10:51           | 1                    |      |       |       | 118538                   |

AST's HSL list at AST's option. Specific compound lists must be supplied for all GC procedures.

Temp: 1.0°

| Sample Relinquished By |             |         |       | Sample Received By |             |         |       |
|------------------------|-------------|---------|-------|--------------------|-------------|---------|-------|
| Name                   | Affiliation | Date    | Time  | Name               | Affiliation | Date    | Time  |
| Camille Stagnolle      |             | 8-22-01 | 12:00 | E. Stagnolle       | A-55        | 8-23-01 | 14:45 |

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# FOR CUSTODY

and Reports 16:

Company Name ETG  
 Address 2540 W. MacLand  
 City Hobbs State NM Zip 88240  
 ATTN: Don Dutton  
 Phone 505-397-4882 Fax (505) 397-4701

Rush Status (must be confirmed with lab mgr.):

Project Name/PO#: Durham Sampler: Camille Reynolds  
 FOT 2075

CA #111 587

Bill to (if different):

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

**ANALYSYS INC.**

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

## Analyses Requested (1)

Please attach explanatory information as required

| Client Sample No.<br>Description/Identification | Date<br>Sampled | Time<br>Sampled | No. of<br>Containers | Soil | Water | Waste | Lab I.D. #<br>(Lab only) |
|-------------------------------------------------|-----------------|-----------------|----------------------|------|-------|-------|--------------------------|
| MW11 60'-62'                                    | 8-30-01         | 10:59           | 1                    | X    |       |       | 118539                   |
| MW11 65'-67'                                    | ✓ 11:05         |                 |                      |      |       |       | 118540                   |
| MW12 0'-2'                                      | 8-30-01         | 12:39           | 1                    |      |       |       | 118541                   |
| MW12 5'-7'                                      |                 | 12:41           |                      |      |       |       | 118542                   |
| MW12 10'-12'                                    |                 | 12:51           |                      |      |       |       | 118543                   |
| MW12 15'-17'                                    |                 | 12:58           |                      |      |       |       | 118544                   |
| MW12 20'-22'                                    |                 | 13:06           |                      |      |       |       | 118545                   |
| MW12 25'-27'                                    |                 | 13:12           |                      |      |       |       | 118546                   |
| MW12 30'-32'                                    | ✓               | 13:16           | ✓                    |      |       |       | 118547                   |
| MW12 35'-37'                                    | ✓               | 13:53           | ✓                    |      |       |       | 118548                   |

(1) Unless 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 limits (MIDL/POL). 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 ASI's HSL list at ASI's option. Specific compound lists must be supplied for all GC procedures.

Temp. 1.0°

| Sample Relinquished By |             |         |       | Sample Received By |             |         |       |
|------------------------|-------------|---------|-------|--------------------|-------------|---------|-------|
| Name                   | Affiliation | Date    | Time  | Name               | Affiliation | Date    | Time  |
| Camille Reynolds       |             | 8-22-01 | 12:00 | E. H. H.           | ASI         | 8-23-01 | 14:45 |

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# OUT-OF-CUSTODY

Send Reports To:

Company Name ETG

Address 2540 W. MacLand

City Hobbes State NM Zip 88240

ATTN: Don Angel

Phone (505) 397-1812 Fax (505) 397-4701

Bill to (if different):

Company Name EDT

Address

City  State  Zip

ATTN:

Phone  Fax

OC# 111

687

ANALYSYS INC.

4221 Freidrich Lane, Suite 190, Austin, TX 78744

(512) 444-5896

Rush Status (must be confirmed with lab mgr.):

Project Name/PO#: Don Angel

Sampler: Camille Reynolds

ETG 2875

| Client Sample No.<br>Description/Identification | Date<br>Sampled | Time<br>Sampled | No. of<br>Containers | Soil | Water/Waste | Lab I.D. #<br>(Lab only) | Comments |
|-------------------------------------------------|-----------------|-----------------|----------------------|------|-------------|--------------------------|----------|
| MW12 40-42'                                     | 8-13-01         | 13:57           | 1                    | X    |             | 118549                   | X        |
| MW12 45-47'                                     |                 | 14:00           | 1                    |      |             | 118550                   |          |
| MW12 50-52'                                     |                 | 14:05           | 1                    |      |             | 118551                   |          |
| MW12 55-57'                                     |                 | 14:10           | 1                    |      |             | 118552                   |          |
| MW12 60-62'                                     |                 | 14:14           | 1                    |      |             | 118553                   |          |
| MW12 65-67'                                     |                 | 14:22           | 1                    |      |             | 118554                   |          |
| MW13 0'-2'                                      | 8-14-01         | 9:18            | 1                    |      |             | 118555                   |          |
| MW13 5'-7'                                      |                 | 9:20            | 1                    |      |             | 118556                   |          |
| MW13 10'-12'                                    |                 | 9:28            | 1                    |      |             | 118557                   |          |
| MW13 15'-17'                                    |                 | 9:36            | 1                    |      |             | 118558                   |          |

(1) Unless 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 limits (MDL/TEL). 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 c ASI's HSL list at ASI's option. Specific compound lists must be supplied for all GC procedures.

Temp. 1.0°C

| Sample Relinquished By |             |         | Sample Received By |             |         |
|------------------------|-------------|---------|--------------------|-------------|---------|
| Name                   | Affiliation | Date    | Name               | Affiliation | Date    |
| Camille Reynolds       |             | 8-22-01 | E. J. J.           | ASI         | 8-23-01 |
|                        |             |         |                    |             | 14:45   |

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# OF-CUSTODY

and Reports 16:

Company Name ETG

Address 2540 W. Marland

City Hobbs State NM Zip 88240

ATTN: Don Dutton

Phone (505) 377-4882 Fax (505) 397-4707

Rush Status (must be confirmed with lab mgr.):

Project Name/PO#: Darc Angelly Sampler

for 2075C

Bill to (if different):

Company Name EOI

Address

City

State

Zip

ATTN:

Phone

Fax

Analyses Requested (1)

Please attach explanatory information as required

| Client Sample No.<br>Description/Identification | Date<br>Sampled | Time<br>Sampled | No. of<br>Containers | Soil | Water | Waste | Lab I.D. #<br>(Lab only) |
|-------------------------------------------------|-----------------|-----------------|----------------------|------|-------|-------|--------------------------|
| MW13 20'-22'                                    | 8-14-01         | 9:43            | 1                    | X    |       |       | 118559                   |
| MW13 25'-27'                                    |                 | 9:51            | 1                    |      |       |       | 118560                   |
| MW13 30'-32'                                    |                 | 9:54            | 1                    |      |       |       | 118561                   |
| MW13 35'-37'                                    |                 | 10:29           | 1                    |      |       |       | 118562                   |
| MW13 40'-42'                                    |                 | 10:42           | 1                    |      |       |       | 118563                   |
| MW13 45'-47'                                    |                 | 10:45           | 1                    |      |       |       | 118564                   |
| MW13 50'-52'                                    |                 | 10:53           | 1                    |      |       |       | 118565                   |
| MW13 55'-57'                                    |                 | 10:59           | 1                    |      |       |       | 118566                   |
| MW13 60'-62'                                    |                 | 11:05           | 1                    |      |       |       | 118567                   |
| MW13 65'-67'                                    |                 | 11:10           | 1                    |      |       |       | 118568                   |

Comments

(1) Unless 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 limits (MDL/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 ASI's HSL list at ASI's option. Specific compound lists must be supplied for all GC procedures.

Temp. 1.0°C

| Sample Relinquished By |             |         | Sample Received By |             |         |
|------------------------|-------------|---------|--------------------|-------------|---------|
| Name                   | Affiliation | Date    | Name               | Affiliation | Date    |
| Carmille Reynolds      |             | 8-22-01 | E. J. J. J.        | ASI         | 8-23-01 |
|                        |             |         |                    |             | 14:45   |

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COC # 111 7087

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

ANALYSYS INC.

**Client:** Environmental Tech Group  
**Attn:** Ken Dutton  
**Address:** 2540 W. Marland Hobbs, NM 88240  
**Phone:** 505 397-4882 **FAX:** 505 397-4701

**Report#/Lab ID#:** 129391 **Report Date:** 05/16/02  
**Project ID:** EOT 2075R Darr Angell #4  
**Sample Name:** SB-8 (60') S-B-10 C.R. 6/15/02  
**Sample Matrix:** soil  
**Date Received:** 05/14/2002 **Time:** 10:05  
**Date Sampled:** 05/10/2002 **Time:** 11:40

## **REPORT OF ANALYSIS**

| Parameter                    | Result | Units | RQL <sup>5</sup> | Blank | Date     | Method <sup>6</sup> | Data Qual <sup>7</sup> | Prec. <sup>2</sup> | Recov. <sup>3</sup> | CCV <sup>4</sup> | LCS <sup>4</sup> |
|------------------------------|--------|-------|------------------|-------|----------|---------------------|------------------------|--------------------|---------------------|------------------|------------------|
| TPH by GC (as diesel)        | 10.8   | mg/Kg | 5                | <5    | 05/15/02 | 8015 mod.           | ---                    | 11                 | 96.1                | 124.6            | 119.1            |
| TPH by GC (as diesel-ext)    | ---    | ---   | ---              | ---   | 05/15/02 | 3540                | ---                    | ---                | ---                 | ---              | ---              |
| TPH by GC (as gasoline)      | <5     | mg/Kg | 5                | <5    | 05/15/02 | 8015 mod.           | ---                    | 11.4               | 92.1                | 105.5            | 91.7             |
| Volatile organics-8260b/BTEX | ---    | ---   | ---              | ---   | 05/15/02 | 8260b               | ---                    | ---                | ---                 | ---              | ---              |
| Benzene                      | <20    | µg/Kg | 20               | <20   | 05/15/02 | 8260b               | ---                    | 0.4                | 81                  | 88.8             | 90               |
| Ethylbenzene                 | <20    | µg/Kg | 20               | <20   | 05/15/02 | 8260b               | ---                    | 1.3                | 101.1               | 106.9            | 106.1            |
| m,p-Xylenes                  | <20    | µg/Kg | 20               | <20   | 05/15/02 | 8260b               | ---                    | 2.1                | 108.1               | 116.2            | 115.5            |
| o-Xylene                     | <20    | µg/Kg | 20               | <20   | 05/15/02 | 8260b               | ---                    | 1.2                | 103.2               | 110.9            | 112              |
| Toluene                      | <20    | µg/Kg | 20               | <20   | 05/15/02 | 8260b               | ---                    | 0.6                | 94                  | 101.6            | 105.1            |

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

This analytical report is respectfully submitted by AnalySys, Inc. The enclosed results have been carefully reviewed and, to the best of my knowledge, the analytical results are consistent with AnalySys, Inc.'s Quality Assurance/Quality Control Program. © Copyright 2000, AnalySys, Inc., Austin, TX. All rights reserved. No part of this publication may be reproduced or transmitted in any form or by any means without the express written consent of AnalySys, Inc.

Respectfully Submitted,  
*Richard Lastor*  
Richard Lastor

1. Quality assurance data is for the sample batch 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 Laboratory Control Sample (LCS) results are expressed as the percent (%) recovery of analyte from a known standard or matrix. 5. Reporting Quantitation Limits (RQL), typically at or above the Practical Quantitation Limit (PQL) of the analytical method. 6. Method numbers typically denote USEPA procedures. Less than ("<") values reflect nominal quantitation limits adjusted for any required dilutions. 7. Data Qualifiers are J = analyte potentially present between the PQL and the MDL. B = Analyte detected in associated method blank(s). S1 =MS and/or MSD recovery exceed advisory limits. S2 =Post digestion spike (PDS) recovery exceeds advisory limit. S3 =MS and/or MSD and PDS recoveries exceed advisory limits. P =Precision higher than advisory limit. M =Matrix interference.

Client: Environmental Tech Group  
Attn: Ken Dutton

Project ID: EOT 2075R Darr Angell #4

Sample Name: SB-8 (60') SB-10 c 2 6/13/02

Report#/Lab ID#: 129391

Sample Matrix: soil

## REPORT OF SURROGATE RECOVERY

| Surrogate Compound                  | Method    | Recovery | Recovery Limit | Data Qualifiers |
|-------------------------------------|-----------|----------|----------------|-----------------|
| Nitrobenzene-d5<br>p-Terphenyl      | 8015 mod. | 125      | 50-150         | ---             |
|                                     | 8015 mod. | 109      | 50-150         | ---             |
| 1,2-Dichloroethane-d4<br>Toluene-d8 | 8260b     | 101      | 65-115         | ---             |
|                                     | 8260b     | 103      | 50-120         | ---             |

Data Qualifiers: D= Surrogates diluted and X= Surrogates outside advisory recovery limits.

# CHAIN-OF-CUSTODY

**Send Reports To:**

Company Name **ETGI**

Address 2540 W MARLAND

City 46835 State NM Zip 88240

KEN DUTTON

Phone (505) 797-4112 Fax (505) 397-4701

**Busb) Status (must be confirmed with lab mgr.):**

Project Name/PO#: EOT 2075R Sampler:

DARRWELL

**Bill to (if different):**

Company Name Cost

Address

City \_\_\_\_\_ State \_\_\_\_\_ Zip \_\_\_\_\_

ATTN:

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

10/1

Robert Edison

### Analyses Requested (1)

Please attach explanatory information as required

4221 Freidrich Lane, Suite 190, Austin, TX 78744

9685-474 (215) :accord

Fax: (512) 447-4766

[illegible]

Submitted V. A. F.

Standard V.A.F.

Temp: 0.0°C

| Sample Relinquished By |         |       | Sample Received By |             |         |
|------------------------|---------|-------|--------------------|-------------|---------|
| Affiliation            | Date    | Time  | Name               | Affiliation | Date    |
| ETGY                   | 5/13/02 | 15:00 | Michael Thompson   | ASL         | 5/14/02 |
|                        |         |       |                    |             | 1005    |

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

# ENVIRONMENTAL LAB OF , INC.

"Don't Treat Your Soil Like Dirt!"

ENVIRONMENTAL TECHNOLOGY GROUP, INC.

ATTN: BETH ALDRICH

P.O. BOX 4845

MIDLAND, TEXAS 79704

FAX: 915-520-4310

FAX: 505-397-4701

SampleType: Water

Sample Condition: Intact/ Iced/ HCl/ -1 deg. C

Project #: EOT 2059C

Project Name: Darr Angell 3

Project Location: Lea County, N.M.

Sampling Date: 09/14/00

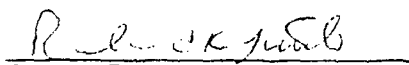
Receiving Date: 09/16/00

Analysis Date: 09/21/00

| ELT#  | FIELD CODE | BENZENE<br>mg/L | TOLUENE<br>mg/L | ETHYLBENZENE<br>mg/L | m,p.XYLENE<br>mg/L | o.XYLENE<br>mg/L | TOTAL<br>BTEX<br>mg/L |
|-------|------------|-----------------|-----------------|----------------------|--------------------|------------------|-----------------------|
| 31022 | MW 1       | <0.001          | <0.001          | <0.001               | <0.001             | <0.001           | <0.001                |
| 31023 | MW 2       | <0.001          | <0.001          | <0.001               | <0.001             | <0.001           | <0.001                |
| 31024 | MW 3       | 0.159           | 0.001           | <0.001               | 0.025              | <0.001           | 0.185                 |
| 31025 | RW 1       | 0.007           | 0.004           | <0.001               | <0.001             | <0.001           | 0.011                 |
| 31026 | EB 1       | <0.001          | <0.001          | <0.001               | <0.001             | <0.001           | <0.001                |

|       |        |        |        |        |        |
|-------|--------|--------|--------|--------|--------|
| % IA  | 98     | 96     | 95     | 96     | 90     |
| % EA  | 92     | 90     | 91     | 92     | 86     |
| BLANK | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 |

METHODS: SW 846-8021B, 5030

  
Ralene K. Tuttle

9-25-00  
Date

Environmental Lab of Texas, Inc. 12600 West I-20 East Odessa, Texas 79763  
(915) 561-1800 FAX (915) 561-1713

CHAIN-OF-CUSTODY RECORD AND ANALYSIS REQUEST

COC # 234

Project Manager: BETH ALDRICH Phone #: (805) 397-4882  
Company Name & Address: ETGZ FAX #: (805) 397-4781  
Project #: 2546 W MARCAND HORRIS NM  
Project Name: EOT 2059C  
Project Location: LEA COUNTY NM  
Supplier Signature: [Signature]

| LAB USE<br>(USE ONLY) | FIELD CODE    | # CONTAINERS | Volume/Amount | MATRIX |      |     |        |       |     |      | PRESERVATIVE METHOD |      |       |      |      | SAMPLING |  |
|-----------------------|---------------|--------------|---------------|--------|------|-----|--------|-------|-----|------|---------------------|------|-------|------|------|----------|--|
|                       |               |              |               | WATER  | SOIL | AIR | SLUDGE | OTHER | HCL | HNO3 | ICE                 | NONE | OTHER | DATE | TIME |          |  |
| 31022                 | MW 1          | 2            | V             | X      |      |     |        |       |     | X    | X                   |      |       |      | 9-14 | 0912     |  |
| 31023                 | MW 2          |              |               |        |      |     |        |       |     |      |                     |      |       |      | 0937 |          |  |
| 31024                 | MW 3          |              |               |        |      |     |        |       |     |      |                     |      |       |      | 1006 |          |  |
| 31025                 | RW 1          |              |               |        |      |     |        |       |     |      |                     |      |       |      |      |          |  |
| 31026                 | EB-1 Per K.P. |              |               |        |      |     |        |       |     |      |                     |      |       |      |      |          |  |
|                       |               |              |               |        |      |     |        |       |     |      |                     |      |       |      |      |          |  |
|                       |               |              |               |        |      |     |        |       |     |      |                     |      |       |      |      |          |  |
|                       |               |              |               |        |      |     |        |       |     |      |                     |      |       |      |      |          |  |
|                       |               |              |               |        |      |     |        |       |     |      |                     |      |       |      |      |          |  |
|                       |               |              |               |        |      |     |        |       |     |      |                     |      |       |      |      |          |  |
|                       |               |              |               |        |      |     |        |       |     |      |                     |      |       |      |      |          |  |
|                       |               |              |               |        |      |     |        |       |     |      |                     |      |       |      |      |          |  |
|                       |               |              |               |        |      |     |        |       |     |      |                     |      |       |      |      |          |  |
|                       |               |              |               |        |      |     |        |       |     |      |                     |      |       |      |      |          |  |
|                       |               |              |               |        |      |     |        |       |     |      |                     |      |       |      |      |          |  |
|                       |               |              |               |        |      |     |        |       |     |      |                     |      |       |      |      |          |  |
|                       |               |              |               |        |      |     |        |       |     |      |                     |      |       |      |      |          |  |
|                       |               |              |               |        |      |     |        |       |     |      |                     |      |       |      |      |          |  |
|                       |               |              |               |        |      |     |        |       |     |      |                     |      |       |      |      |          |  |
|                       |               |              |               |        |      |     |        |       |     |      |                     |      |       |      |      |          |  |
|                       |               |              |               |        |      |     |        |       |     |      |                     |      |       |      |      |          |  |
|                       |               |              |               |        |      |     |        |       |     |      |                     |      |       |      |      |          |  |
|                       |               |              |               |        |      |     |        |       |     |      |                     |      |       |      |      |          |  |
|                       |               |              |               |        |      |     |        |       |     |      |                     |      |       |      |      |          |  |
|                       |               |              |               |        |      |     |        |       |     |      |                     |      |       |      |      |          |  |
|                       |               |              |               |        |      |     |        |       |     |      |                     |      |       |      |      |          |  |
|                       |               |              |               |        |      |     |        |       |     |      |                     |      |       |      |      |          |  |
|                       |               |              |               |        |      |     |        |       |     |      |                     |      |       |      |      |          |  |
|                       |               |              |               |        |      |     |        |       |     |      |                     |      |       |      |      |          |  |
|                       |               |              |               |        |      |     |        |       |     |      |                     |      |       |      |      |          |  |
|                       |               |              |               |        |      |     |        |       |     |      |                     |      |       |      |      |          |  |
|                       |               |              |               |        |      |     |        |       |     |      |                     |      |       |      |      |          |  |
|                       |               |              |               |        |      |     |        |       |     |      |                     |      |       |      |      |          |  |
|                       |               |              |               |        |      |     |        |       |     |      |                     |      |       |      |      |          |  |
|                       |               |              |               |        |      |     |        |       |     |      |                     |      |       |      |      |          |  |
|                       |               |              |               |        |      |     |        |       |     |      |                     |      |       |      |      |          |  |
|                       |               |              |               |        |      |     |        |       |     |      |                     |      |       |      |      |          |  |
|                       |               |              |               |        |      |     |        |       |     |      |                     |      |       |      |      |          |  |
|                       |               |              |               |        |      |     |        |       |     |      |                     |      |       |      |      |          |  |
|                       |               |              |               |        |      |     |        |       |     |      |                     |      |       |      |      |          |  |
|                       |               |              |               |        |      |     |        |       |     |      |                     |      |       |      |      |          |  |
|                       |               |              |               |        |      |     |        |       |     |      |                     |      |       |      |      |          |  |
|                       |               |              |               |        |      |     |        |       |     |      |                     |      |       |      |      |          |  |
|                       |               |              |               |        |      |     |        |       |     |      |                     |      |       |      |      |          |  |
|                       |               |              |               |        |      |     |        |       |     |      |                     |      |       |      |      |          |  |
|                       |               |              |               |        |      |     |        |       |     |      |                     |      |       |      |      |          |  |
|                       |               |              |               |        |      |     |        |       |     |      |                     |      |       |      |      |          |  |
|                       |               |              |               |        |      |     |        |       |     |      |                     |      |       |      |      |          |  |
|                       |               |              |               |        |      |     |        |       |     |      |                     |      |       |      |      |          |  |
|                       |               |              |               |        |      |     |        |       |     |      |                     |      |       |      |      |          |  |
|                       |               |              |               |        |      |     |        |       |     |      |                     |      |       |      |      |          |  |
|                       |               |              |               |        |      |     |        |       |     |      |                     |      |       |      |      |          |  |
|                       |               |              |               |        |      |     |        |       |     |      |                     |      |       |      |      |          |  |
|                       |               |              |               |        |      |     |        |       |     |      |                     |      |       |      |      |          |  |
|                       |               |              |               |        |      |     |        |       |     |      |                     |      |       |      |      |          |  |
|                       |               |              |               |        |      |     |        |       |     |      |                     |      |       |      |      |          |  |
|                       |               |              |               |        |      |     |        |       |     |      |                     |      |       |      |      |          |  |
|                       |               |              |               |        |      |     |        |       |     |      |                     |      |       |      |      |          |  |
|                       |               |              |               |        |      |     |        |       |     |      |                     |      |       |      |      |          |  |
|                       |               |              |               |        |      |     |        |       |     |      |                     |      |       |      |      |          |  |
|                       |               |              |               |        |      |     |        |       |     |      |                     |      |       |      |      |          |  |
|                       |               |              |               |        |      |     |        |       |     |      |                     |      |       |      |      |          |  |
|                       |               |              |               |        |      |     |        |       |     |      |                     |      |       |      |      |          |  |
|                       |               |              |               |        |      |     |        |       |     |      |                     |      |       |      |      |          |  |
|                       |               |              |               |        |      |     |        |       |     |      |                     |      |       |      |      |          |  |
|                       |               |              |               |        |      |     |        |       |     |      |                     |      |       |      |      |          |  |
|                       |               |              |               |        |      |     |        |       |     |      |                     |      |       |      |      |          |  |
|                       |               |              |               |        |      |     |        |       |     |      |                     |      |       |      |      |          |  |
|                       |               |              |               |        |      |     |        |       |     |      |                     |      |       |      |      |          |  |
|                       |               |              |               |        |      |     |        |       |     |      |                     |      |       |      |      |          |  |
|                       |               |              |               |        |      |     |        |       |     |      |                     |      |       |      |      |          |  |
|                       |               |              |               |        |      |     |        |       |     |      |                     |      |       |      |      |          |  |
|                       |               |              |               |        |      |     |        |       |     |      |                     |      |       |      |      |          |  |
|                       |               |              |               |        |      |     |        |       |     |      |                     |      |       |      |      |          |  |

Relinquished by: [Signature] Date: 9-15-04 Time: 1500  
Relinquished by: [Signature] Date:  Time:   
Relinquished by: [Signature] Date: 9/16/00 Time: 14:55

REMARKS: INVOICE; EOT  
FAX RESULTS; HORRIS OFFICE  
MAIL RESULTS; EOT  
-1°C

with  
X-1100

# ENVIRONMENTAL LAB OF , INC.

"Don't Treat Your Soil Like Dirt!"

ENVIRONMENTAL TECHNOLOGY GROUP, INC.  
ATTN: BETH ALDRICH  
2540 WEST MARLAND  
HOUSTON, N.M. 88240  
FAX: 915-520-4210  
FAX: 505-397-4701

Sample Type: Water  
Sample Condition: Intact/ Iced/ HCl/ -1 deg. C  
Project #: EOT 2059C  
Project Name: Darr Angel III  
Project Location: Lovington, N.M.

Sampling Date: 11/15/00  
Receiving Date: 11/18/00  
Analysis Date: 11/19/00

| ELT # | FIELD CODE | BENZENE<br>mg/L | TOLUENE<br>mg/L | ETHYLBENZENE<br>mg/L | m,p-XYLENE<br>mg/L | o-XYLENE<br>mg/L |
|-------|------------|-----------------|-----------------|----------------------|--------------------|------------------|
| 34073 | MW-1       | <0.001          | <0.001          | <0.001               | <0.001             | <0.001           |
| 34074 | MW-2       | <0.001          | <0.001          | <0.001               | <0.001             | <0.001           |
| 34075 | MW-3       | 0.431           | <0.001          | <0.001               | 0.074              | <0.001           |
| 34076 | RW-1       | 0.022           | 0.021           | 0.005                | 0.008              | 0.002            |
| 34077 | EB-1       | <0.001          | <0.001          | <0.001               | <0.001             | <0.001           |

|       |        |        |        |        |        |
|-------|--------|--------|--------|--------|--------|
| %IA   | 91     | 100    | 107    | 112    | 105    |
| %EA   | 85     | 91     | 95     | 99     | 93     |
| BLANK | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 |

METHODS: EPA SW 846-8021B, 5030

Roland K. Tuttle  
Roland K. Tuttle

11-20-00  
Date





# ENVIRONMENTAL LAB OF , INC.

"Don't Treat Your Soil Like Dirt!"

ENVIRONMENTAL TECHNOLOGY GROUP, INC.  
ATTN: MR. JESSE TAYLOR  
2540 W. MARLAND  
HOBBS, N.M. 88240  
FAX: 915-397-4701

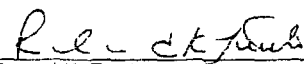
Sample Type: Water  
Sample Condition: Intact/ Iced/ HCl/ -3 deg. C  
Project #: EOT 2059C  
Project Name: Darr Angell 3  
Project Location: Lea Co., N.M.

Sampling Date: 02/14/01  
Receiving Date: 02/21/01  
Analysis Date: 02/22/01

| ELT # | FIELD CODE | BENZENE<br>mg/L | TOLUENE<br>mg/L | ETHYLBENZENE<br>mg/L | m,p-XYLENE<br>mg/L | o-XYLENE<br>mg/L |
|-------|------------|-----------------|-----------------|----------------------|--------------------|------------------|
| 37549 | MW 1       | <0.001          | <0.001          | <0.001               | <0.001             | <0.001           |
| 37550 | MW 2       | <0.001          | <0.001          | <0.001               | <0.001             | <0.001           |
| 37551 | MW 3       | 0.553           | <0.001          | <0.001               | 0.067              | <0.001           |
| 37552 | EB 1       | <0.001          | <0.001          | <0.001               | <0.001             | <0.001           |
| 37553 | RW 1       | 0.016           | 0.014           | 0.005                | 0.007              | 0.003            |

|       |        |        |        |        |        |
|-------|--------|--------|--------|--------|--------|
| %IA   | 91     | 95     | 97     | 95     | 97     |
| %EA   | 87     | 90     | 89     | 86     | 88     |
| BLANK | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 |

METHODS: EPA SW 846-8021B ,5030

  
Roland K. Tuttle

2-23-01  
Date

**Environmental Lab of Texas, Inc.**

12600 West I-20 East  
Odessa, Texas 79763  
Phone: 915-563-1800  
Fax: 915-563-1713

Project Manager: Tessa Taylor

Company Name **ETZ**

Company Address: 2548 W MARL

City/State/Zip: HOBBS NEW MEXICO 88240

Telephone No. 397-4882

Sampler Signature James Capas

Fax No: 397-4701

202 013

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

Project Name: DAA ONGEE 3

Project #: LOT 2059C

Project Loc: Ken Country, Africa

PC #:

[illegible]

## Summary Report

Ken Dutton  
E.T.G.I.  
PO Box 4845  
Midland, Tx. 79704

Report Date: May 8, 2001

Order ID Number: A01042901

Project Number: EOTT2059C  
Project Name: Darr Angell #3  
Project Location: Lovington NM

| Sample | Description | Matrix | Date Taken | Time Taken | Date Received |
|--------|-------------|--------|------------|------------|---------------|
| 170099 | MW-1        | Water  | 4/24/01    | 15:00      | 4/27/01       |
| 170100 | MW-2        | Water  | 4/24/01    | 15:30      | 4/27/01       |
| 170101 | MW-3        | Water  | 4/24/01    | 16:52      | 4/27/01       |
| 170102 | EB-1        | Water  | 4/24/01    | 18:15      | 4/27/01       |

This report consists of a total of 1 page(s) and is intended only as a summary of results for the sample(s) listed above.

| Sample - Field Code | BTEX              |                   |                        |                        |                      |
|---------------------|-------------------|-------------------|------------------------|------------------------|----------------------|
|                     | Benzene<br>(mg/L) | Toluene<br>(mg/L) | Ethylbenzene<br>(mg/L) | M,P,O-Xylene<br>(mg/L) | Total BTEX<br>(mg/L) |
| 170099 - MW-1       | <0.005            | <0.005            | <0.005                 | <0.005                 | <0.005               |
| 170100 - MW-2       | <0.005            | <0.005            | <0.005                 | <0.005                 | <0.005               |
| 170101 - MW-3       | 0.883             | <0.005            | <0.005                 | 0.116                  | 0.799                |
| 170102 - EB-1       | <0.001            | <0.001            | <0.001                 | <0.001                 | <0.001               |

*This is only a summary. Please, refer to the complete report package for quality control data.*

Page 1 of 1

COC: 452

[illegible]

Submittal of complete correspondence agreements to Terms and Conditions listed on reverse side of C.O.C.

**ORIGINAL COPY**

**Client:** Environmental Tech Group  
**Attn:** Ken Dutton  
**Address:** 2540 W. Marland  
Hobbs Nm 88240  
**Phone:** 505 397-4882 **FAX:** 505 397-4701

**Report#/Lab ID#:** 118657 **Report Date:** 09/04/01  
**Project ID:** Darr Angell 4 / EOT 2075C  
**Sample Name:** MW 1  
**Sample Matrix:** water  
**Date Received:** 08/24/2001 **Time:** 12:31  
**Date Sampled:** 08/21/2001 **Time:** 00:00

## REPORT OF ANALYSIS

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

| Parameter                    | Result | Units | RQL <sup>5</sup> | Blank | Date     | Method <sup>6</sup> | Data Qual <sup>7</sup> | Prec. <sup>2</sup> | Recov. <sup>3</sup> | CCV <sup>4</sup> | LCS <sup>4</sup> |
|------------------------------|--------|-------|------------------|-------|----------|---------------------|------------------------|--------------------|---------------------|------------------|------------------|
| Volatile organics-8260b/BTEX | ---    |       | ---              |       | 09/01/01 | 8260b               | ---                    | ---                | ---                 | ---              | ---              |
| Benzene                      | 1.95   | µg/L  | 1                | <1    | 09/01/01 | 8260b               | ---                    | 0.3                | 98.4                | 95.6             | 96.9             |
| Ethylbenzene                 | <1     | µg/L  | 1                | <1    | 09/01/01 | 8260b               | ---                    | 0                  | 99.6                | 96.8             | 104.6            |
| m,p-Xylenes                  | <1     | µg/L  | 1                | <1    | 09/01/01 | 8260b               | J                      | 0                  | 101.9               | 98               | 105.7            |
| o-Xylene                     | <1     | µg/L  | 1                | <1    | 09/01/01 | 8260b               | ---                    | 1.1                | 104                 | 101.4            | 109.5            |
| Toluene                      | <1     | µg/L  | 1                | <1    | 09/01/01 | 8260b               | ---                    | 0.3                | 104.2               | 97.9             | 103.2            |

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Respectfully Submitted,

*Richard Laster*

Richard Laster

1. Quality assurance data is for the sample batch 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 Laboratory Control Sample (LCS) results are expressed as the percent (%) recovery of analyte from a known standard or matrix. 5. Reporting Quantitation Limits (RQL), typically at or above the Practical Quantitation Limit (PQL) of the analytical method. 6. Method numbers typically denote USEPA procedures. Less than ("<") values reflect nominal quantitation limits adjusted for any required dilutions. 7. Data Qualifiers are J = analyte potentially present between the PQL and the MDL, B = Analyte detected in associated method blank(s). S1 =MS and/or MSD recovery exceed advisory limits. S2 =Post digestion spike (PDS) recovery exceeds advisory limit. S3 =MS and/or MSD and PDS recoveries exceed advisory limits. P =Precision higher than advisory limit. M =Matrix interference.

|                                                                    |                                                                          |                                                               |
|--------------------------------------------------------------------|--------------------------------------------------------------------------|---------------------------------------------------------------|
| <b>Client:</b> Environmental Tech Group<br><b>Attn:</b> Ken Dutton | <b>Project ID:</b> Darr Angell 4 / EOT 2075C<br><b>Sample Name:</b> MW 1 | <b>Report#/Lab ID#:</b> 118657<br><b>Sample Matrix:</b> water |
|--------------------------------------------------------------------|--------------------------------------------------------------------------|---------------------------------------------------------------|

**REPORT OF SURROGATE RECOVERY**

| Surrogate Compound    | Method | Recovery | Recovery Limit | Data Qualifiers |
|-----------------------|--------|----------|----------------|-----------------|
| 1,2-Dichloroethane-d4 | 8260b  | 107      | 80-120         | ---             |
| Toluene-d8            | 8260b  | 103      | 88-110         | ---             |

Data Qualifiers: D= Surrogates diluted and X= Surrogates outside advisory recovery limits.

## Exception Report:

**Report #/Lab ID#:** 118657 **Matrix:** water  
**Client:** Environmental Tech Group  
**Project ID:** Darr Angell 4 / EOT 2075C  
**Sample Name:** MW 1

**Attn:** Ken Dutton

### Sample Temperature/Condition <=6°C

The typical sample temperature criteria (except for metals by ICP, GF/AA and AA and a very few other tests) is <= 6°C. Possible exceptions include samples submitted to laboratory within such a short time after sampling that cooling measures used in the field and during transport had insufficient time to achieve desired temperatures in the samples (see sample collection and sample receipt times) and samples where the temperature could not be measured due to sample submission in a manner precluding temperature measurement without impacting sample integrity (ex. in a bottle with no cooler).

### Sample Bottles & Preservation

- ☒ Sample received in appropriate container(s) and appear to be appropriately preserved.  
☐ Sample received in appropriate container(s). State of sample preservation unknown.  
☐ Sample received in inappropriate container(s) and/or with unknown state of preservation.

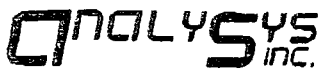
### J flag Discussion

A J flag data qualifier indicates (as required under TNRCC-TRRP reporting requirements) that the raw calculated analyte concentration in the sample (uncorrected for background levels/blanks and other potential sources of sampling and analytical contamination), though less than the Reported Quantitation Limit (RQL) is greater than the Detection Limit. Because the reported result is below the quantitation limit for this project/sample (or test procedure), GC/MS organics results may or MAY NOT have been verified as to the presence and relative ratio of target ions (eg. the material causing the J flag "hit" in such situations may be nothing more than background ion-fragment noise.)

### Comments pertaining to Data Qualifiers and QC data:

| Parameter   | Qualif | Comment                      |
|-------------|--------|------------------------------|
| m,p-Xylenes | J      | See J-flag discussion above. |

Notes:



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 2209 N. Padre Island Dr., Corpus Christi, TX 78408  
 (512) 444-5896 • FAX (512) 447-4766

**Client:** Environmental Tech Group  
**Attn:** Ken Dutton  
**Address:** 2540 W. Marland  
 Hobbs Nm 88240  
**Phone:** 505 397-4882 **FAX:** 505 397-4701

**Report#/Lab ID#:** 118658 **Report Date:** 09/06/01  
**Project ID:** Darr Angell 4 / EOT 2075C  
**Sample Name:** MW 2  
**Sample Matrix:** water  
**Date Received:** 08/24/2001 **Time:** 12:31  
**Date Sampled:** 08/21/2001 **Time:** 00:00

### PRELIMINARY REPORT OF ANALYSIS

| Parameter                    | Result | Units | RQL <sup>1</sup> | Blank | Date     | Method |
|------------------------------|--------|-------|------------------|-------|----------|--------|
| Volatile organics-8260b/BTEX | ---    |       | ---              |       | 08/31/01 | 8260b  |
| Benzene                      | <1     | µg/L  | 1                | <1    | 08/31/01 | 8260b  |
| Ethylbenzene                 | <1     | µg/L  | 1                | <1    | 08/31/01 | 8260b  |
| m,p-Xylenes                  | <1     | µg/L  | 1                | <1    | 08/31/01 | 8260b  |
| o-Xylene                     | <1     | µg/L  | 1                | <1    | 08/31/01 | 8260b  |
| Toluene                      | <1     | µg/L  | 1                | <1    | 08/31/01 | 8260b  |

1. Reporting Quantitation Limit (RQL): typically at or above the Practical Quantitation Limit (PQL) of the analytical method.

This preliminary analytical report is respectfully submitted by AnalySys, Inc. The enclosed data may not have received final review for full compliance with AnalySys, Inc.'s QA/QC program or for completeness. Although the reported results contained herein are believed to be correct, based upon initial data review, final QA/QC review may result in results different from those reported herein. © Copyright 2000, AnalySys, Inc., Austin, TX. All rights reserved. No part of this publication may be reproduced or transmitted in any form or by any means without the express written consent of AnalySys, Inc.

Respectfully Submitted,

*Richard Laster*  
 Richard Laster



**Client:** Environmental Tech Group  
**Attn:** Ken Dutton  
**Address:** 2540 W. Marland  
Hobbs Nm 88240  
**Phone:** 505 397-4882 **FAX:** 505 397-4701

**Report#/Lab ID#:** 118658 **Report Date:** 09/06/01  
**Project ID:** Darr Angell 4/EOT 2075C  
**Sample Name:** MW 2  
**Sample Matrix:** water  
**Date Received:** 08/24/2001 **Time:** 12:31  
**Date Sampled:** 08/21/2001 **Time:** 00:00

**REPORT OF ANALYSIS**

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

| Parameter                     | Result | Units | RQL <sup>5</sup> | Blank | Date     | Method <sup>6</sup> | Data Qual <sup>7</sup> | Prec. <sup>2</sup> | Recov. <sup>3</sup> | CCV <sup>4</sup> | LCS <sup>4</sup> |
|-------------------------------|--------|-------|------------------|-------|----------|---------------------|------------------------|--------------------|---------------------|------------------|------------------|
| Volatiles organics-8260b/BTEX | ---    |       | ---              |       | 08/31/01 | 8260b               | ---                    | ---                | ---                 | ---              | ---              |
| Benzene                       | <1     | µg/L  | 1                | <1    | 08/31/01 | 8260b               | ---                    | 3.9                | 98.1                | 97.2             | 96.8             |
| Ethylbenzene                  | <1     | µg/L  | 1                | <1    | 08/31/01 | 8260b               | ---                    | 3.3                | 105.1               | 102.1            | 100.6            |
| m,p-Xylenes                   | <1     | µg/L  | 1                | <1    | 08/31/01 | 8260b               | ---                    | 3.8                | 108.6               | 105.2            | 103.6            |
| o-Xylene                      | <1     | µg/L  | 1                | <1    | 08/31/01 | 8260b               | ---                    | 3.3                | 110.7               | 105              | 106.4            |
| Toluene                       | <1     | µg/L  | 1                | <1    | 08/31/01 | 8260b               | ---                    | 0.1                | 104.5               | 102.5            | 102.5            |

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Richard Laster

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(512) 444-5896 FAX (512) 447-4

Client: Environmental Tech Group  
Attn: Ken Dutton

Project ID: Darr Angell 4 / EOT 2075C  
Sample Name: MW 2

Report#/Lab ID#: 118658  
Sample Matrix: water

REPORT OF SURROGATE RECOVERY

| Surrogate Compound    | Method | Recovery | Recovery Limit | Data Qualifiers |
|-----------------------|--------|----------|----------------|-----------------|
| 1,2-Dichloroethane-d4 | 8260b  | 101      | 80-120         | ---             |
| Toluene-d8            | 8260b  | 97.1     | 88-110         | ---             |

Data Qualifiers: D= Surrogates diluted and X= Surrogates outside advisory recovery limits.

**Client:** Environmental Tech Group  
**Attn:** Ken Dutton  
**Address:** 2540 W. Marland  
Hobbs Nm 88240  
**Phone:** 505 397-4882 **FAX:** 505 397-4701

**Report#/Lab ID#:** 118659 **Report Date:** 09/14/01  
**Project ID:** Darr Angell 4 / EOT 2075C  
**Sample Name:** MW 3  
**Sample Matrix:** water  
**Date Received:** 08/24/2001 **Time:** 12:31  
**Date Sampled:** 08/21/2001 **Time:** 00:00

# REPORT OF ANALYSIS

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

| Parameter                    | Result | Units | RQL <sup>5</sup> | Blank | Date     | Method <sup>6</sup> | Data Qual <sup>7</sup> | Prec. <sup>2</sup> | Recov. <sup>3</sup> | CCV <sup>4</sup> | LCS <sup>4</sup> |
|------------------------------|--------|-------|------------------|-------|----------|---------------------|------------------------|--------------------|---------------------|------------------|------------------|
| Volatile organics-8260b/BTEX | ---    |       | ---              |       | 09/01/01 | 8260b               | ---                    | ---                | ---                 | ---              | ---              |
| Benzene                      | 953    | µg/L  | 5                | <5    | 09/01/01 | 8260b               | ---                    | 0.7                | 109.9               | 111.8            | 108.1            |
| Ethylbenzene                 | <1     | µg/L  | 1                | <1    | 09/01/01 | 8260b               | ---                    | 0                  | 99.6                | 96.8             | 104.6            |
| m,p-Xylenes                  | 85.2   | µg/L  | 1                | <1    | 09/01/01 | 8260b               | ---                    | 0                  | 101.9               | 98               | 105.7            |
| o-Xylene                     | <1     | µg/L  | 1                | <1    | 09/01/01 | 8260b               | ---                    | 1.1                | 104                 | 101.4            | 109.5            |
| Toluene                      | <1     | µg/L  | 1                | <1    | 09/01/01 | 8260b               | ---                    | 0.3                | 104.2               | 97.9             | 103.2            |

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*Richard Laster*

Richard Laster

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**Client:** Environmental Tech Group  
**Attn:** Ken Dutton

**Project ID:** Darr Angell 4 / EOT 2075C  
**Sample Name:** MW 3

**Report#/Lab ID#:** 118659  
**Sample Matrix:** water

**REPORT OF SURROGATE RECOVERY**

| Surrogate Compound    | Method | Recovery | Recovery Limit | Data Qualifiers |
|-----------------------|--------|----------|----------------|-----------------|
| 1,2-Dichloroethane-d4 | 8260b  | 107      | 80-120         | ---             |
| Toluene-d8            | 8260b  | 101      | 88-110         | ---             |

Data Qualifiers: D= Surrogates diluted and X= Surrogates outside advisory recovery limits.

**Client:** Environmental Tech Group  
**Attn:** Ken Dutton  
**Address:** 2540 W. Marland  
Hobbs Nm 88240  
**Phone:** 505 397-4882 **FAX:** 505 397-4701

**Report#/Lab ID#:** 118660 **Report Date:** 09/13/01  
**Project ID:** Darr Angell 4 / EOT 2075C  
**Sample Name:** MW 4  
**Sample Matrix:** water  
**Date Received:** 08/24/2001 **Time:** 12:31  
**Date Sampled:** 08/21/2001 **Time:** 00:00

# REPORT OF ANALYSIS

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

| Parameter              | Result  | Units    | RQL <sup>5</sup> | Blank   | Date     | Method <sup>6</sup> | Data Qual <sup>7</sup> | Prec. <sup>2</sup> | Recov. <sup>3</sup> | CCV <sup>4</sup> | LCS <sup>4</sup> |
|------------------------|---------|----------|------------------|---------|----------|---------------------|------------------------|--------------------|---------------------|------------------|------------------|
| A/BN extraction-PAH    | ---     | ---      | ---              | ---     | 08/28/01 | 3520                | ---                    | ---                | ---                 | ---              | ---              |
| Hardness               | 710     | mg/L CaC | ---              | ---     | 09/13/01 | SM 2340B            | ---                    | ---                | ---                 | ---              | ---              |
| Metals Dig.-Hg         | ---     | ---      | ---              | ---     | 08/28/01 | 7470&245.1          | ---                    | ---                | ---                 | ---              | ---              |
| Metals Dig.-HNO3       | ---     | ---      | ---              | ---     | 08/28/01 | 3015                | ---                    | ---                | ---                 | ---              | ---              |
| Total dissolved solids | 460     | mg/L     | 1                | <1      | 08/28/01 | 160.1               | ---                    | 1.59               | -NA-                | -NA-             | -NA-             |
| Aluminum/ICP           | 8.52    | mg/L     | 0.2              | <0.2    | 08/30/01 | 6010 & 200.7        | ---                    | 7.92               | 99.77               | 103.31           | 97.92            |
| Arsenic/ICP            | <0.05   | mg/L     | 0.05             | <0.05   | 08/30/01 | 6010 & 200.7        | ---                    | 7.03               | 109.66              | 107.95           | 105.27           |
| Barium/ICP             | 0.278   | mg/L     | 0.01             | <0.01   | 08/30/01 | 6010 & 200.7        | ---                    | 9.31               | 77.99               | 98.25            | 81.08            |
| Boron/ICP              | 0.156   | mg/L     | 0.02             | <0.02   | 08/30/01 | 6010 & 200.7        | ---                    | 6.6                | 102.26              | 108              | 101.23           |
| Cadmium/ICP            | <0.005  | mg/L     | 0.005            | <0.005  | 08/30/01 | 6010 & 200.7        | ---                    | 6.94               | 101.61              | 98               | 99.8             |
| Calcium/ICP            | 258     | mg/L     | 10               | <10     | 09/06/01 | 6010 & 200.7        | ---                    | 5.62               | 109.46              | 103.18           | 105.79           |
| Chromium/ICP           | 0.0172  | mg/L     | 0.01             | <0.01   | 08/30/01 | 6010 & 200.7        | ---                    | 7.39               | 103.01              | 97.13            | 101.42           |
| Cobalt/ICP             | <0.02   | mg/L     | 0.02             | <0.02   | 08/30/01 | 6010 & 200.7        | J                      | 6.84               | 103.77              | 98               | 101.64           |
| Copper/ICP             | <0.02   | mg/L     | 0.02             | <0.02   | 08/30/01 | 6010 & 200.7        | J                      | 7.93               | 95.54               | 95.75            | 93.87            |
| Iron/ICP               | 7.37    | mg/L     | 0.05             | <0.05   | 08/30/01 | 6010 & 200.7        | ---                    | 6.42               | 103.98              | 100.4            | 101.28           |
| Lead/ICP               | <0.02   | mg/L     | 0.02             | <0.02   | 08/30/01 | 6010 & 200.7        | J                      | 7.38               | 109.25              | 107.75           | 106.49           |
| Magnesium/ICP          | 16.8    | mg/L     | 5                | <5      | 09/06/01 | 6010 & 200.7        | ---                    | 8.86               | 95.93               | 96.65            | 95.41            |
| Manganese/ICP          | 0.167   | mg/L     | 0.01             | <0.01   | 08/30/01 | 6010 & 200.7        | ---                    | 6.84               | 104.96              | 101              | 102.77           |
| Mercury/CVAA           | <0.0002 | mg/L     | 0.0002           | <0.0002 | 08/29/01 | 245.1&7470          | ---                    | 4.44               | 88.89               | 118              | 99.33            |
| Molybdenum/ICP         | <0.02   | mg/L     | 0.02             | <0.02   | 08/30/01 | 6010 & 200.7        | ---                    | 7.8                | 102.24              | 98.75            | 98.09            |
| Nickel/ICP             | <0.02   | mg/L     | 0.02             | <0.02   | 08/30/01 | 6010 & 200.7        | J                      | 6.88               | 107.29              | 106.75           | 104.36           |

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*Richard Laster*

Richard Laster

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Client: Environmental Tech Group  
Attn: Ken Dutton

Project ID: Darr Angell 4 / EOT 2075C  
Sample Name: MW 4

Report#/Lab ID#: 118660  
Sample Matrix: water

REPORT OF ANALYSIS-cont.

QUALITY ASSURANCE DATA<sup>1</sup>

| Parameter                    | Result | Units | RQL <sup>5</sup> | Blank  | Date     | Method <sup>6</sup> | Data Qual <sup>7</sup> | Prec. <sup>2</sup> | Recov. <sup>3</sup> | CCV <sup>4</sup> | LCS <sup>4</sup> |
|------------------------------|--------|-------|------------------|--------|----------|---------------------|------------------------|--------------------|---------------------|------------------|------------------|
| Potassium/AA                 | 5.19   | mg/L  | 0.5              | <0.5   | 08/30/01 | 258.1&7610          | ---                    | 7.08               | 114.81              | 84.39            | 91.65            |
| Selenium/ICP                 | <0.05  | mg/L  | 0.05             | <0.05  | 08/30/01 | 6010 & 200.7        | ---                    | 7.05               | 106.04              | 104.85           | 102.91           |
| Silver/GFAA                  | <0.002 | mg/L  | 0.002            | <0.002 | 08/29/01 | 272.2&7761          | ---                    | 19.55              | 127.52              | 87.5             | 98               |
| Sodium/ICP                   | 41.7   | mg/L  | 0.5              | <0.5   | 08/30/01 | 6010 & 200.7        | ---                    | 8.14               | 85.76               | 94.5             | 88.69            |
| Zinc/ICP                     | 0.0288 | mg/L  | 0.01             | <0.01  | 08/30/01 | 6010 & 200.7        | ---                    | 7.65               | 106.4               | 101.88           | 103.85           |
| Alkalinity, total            | 680    | mg/L  | 20               | <20    | 09/04/01 | 310.1               | ---                    | 0                  | -NA-                | -NA-             | -NA-             |
| Chloride                     | 53.8   | mg/L  | 5                | <5     | 09/04/01 | 325.2&9251          | ---                    | 0.85               | 110.22              | 109.71           | 96.98            |
| Fluoride                     | 2.4    | mg/L  | 0.05             | <0.05  | 09/05/01 | 340.2               | ---                    | 2.05               | 87.62               | 113.84           | 113.84           |
| Nitrate/Nitrite-N            | 0.658  | mg/L  | 0.01             | <0.01  | 09/07/01 | 353.1               | ---                    | 2.27               | 77.66               | 101.59           | 97.73            |
| Sulfate                      | 91.5   | mg/L  | 10               | <10    | 08/30/01 | 375.4&9038          | ---                    | 2.6                | 105.48              | 101.98           | 102.95           |
| Extractable organics-PAH     | ---    | ---   | ---              | ---    | 08/31/01 | 8270c               | ---                    | ---                | ---                 | ---              | ---              |
| Volatile organics-8260b/BTEX | ---    | ---   | ---              | ---    | 09/01/01 | 8260b               | ---                    | ---                | ---                 | ---              | ---              |
| Benzene                      | 1.44   | µg/L  | 1                | <1     | 09/01/01 | 8260b               | ---                    | 0.3                | 98.4                | 95.6             | 96.9             |
| Ethylbenzene                 | <1     | µg/L  | 1                | <1     | 09/01/01 | 8260b               | ---                    | 0                  | 99.6                | 96.8             | 104.6            |
| m,p-Xylenes                  | <1     | µg/L  | 1                | <1     | 09/01/01 | 8260b               | J                      | 0                  | 101.9               | 98               | 105.7            |
| o-Xylene                     | <1     | µg/L  | 1                | <1     | 09/01/01 | 8260b               | ---                    | 1.1                | 104                 | 101.4            | 109.5            |
| Toluene                      | <1     | µg/L  | 1                | <1     | 09/01/01 | 8260b               | J                      | 0.3                | 104.2               | 97.9             | 103.2            |
| Acenaphthene                 | <0.05  | µg/L  | 0.05             | <0.05  | 08/31/01 | 8270c               | ---                    | 24.5               | 64.8                | 97               | 90.9             |
| Acenaphthylene               | <0.05  | µg/L  | 0.05             | <0.05  | 08/31/01 | 8270c               | ---                    | 20.7               | 66.9                | 104.3            | 98.5             |
| Anthracene                   | <0.05  | µg/L  | 0.05             | <0.05  | 08/31/01 | 8270c               | ---                    | 11                 | 89                  | 98.8             | 101.4            |
| Benz[a]anthracene            | <0.05  | µg/L  | 0.05             | <0.05  | 08/31/01 | 8270c               | ---                    | 14.4               | 92.8                | 91.3             | 109.4            |
| Benz[a]pyrene                | <0.05  | µg/L  | 0.05             | <0.05  | 08/31/01 | 8270c               | ---                    | 12.8               | 90                  | 96               | 104.1            |
| Benz[b]fluoranthene          | <0.05  | µg/L  | 0.05             | <0.05  | 08/31/01 | 8270c               | ---                    | 16.2               | 91.8                | 89.5             | 108              |
| Benz[g,h,i]perylene          | <0.05  | µg/L  | 0.05             | <0.05  | 08/31/01 | 8270c               | ---                    | 14.3               | 95.4                | 93.7             | 112.3            |
| Benz[j,k]fluoranthene        | <0.05  | µg/L  | 0.05             | <0.05  | 08/31/01 | 8270c               | ---                    | 17.8               | 88.1                | 99.3             | 101.6            |
| Chrysene                     | <0.05  | µg/L  | 0.05             | <0.05  | 08/31/01 | 8270c               | ---                    | 14.6               | 95.2                | 100.5            | 111.6            |
| Dibenz[a,h]anthracene        | <0.05  | µg/L  | 0.05             | <0.05  | 08/31/01 | 8270c               | ---                    | 14.9               | 96.8                | 91.7             | 108              |
| Fluoranthene                 | <0.05  | µg/L  | 0.05             | <0.05  | 08/31/01 | 8270c               | ---                    | 10                 | 95.1                | 99.6             | 107.8            |
| Fluorene                     | <0.05  | µg/L  | 0.05             | <0.05  | 08/31/01 | 8270c               | ---                    | 22.5               | 75.6                | 99.7             | 96.2             |
| Indeno[1,2,3-cd]pyrene       | <0.05  | µg/L  | 0.05             | <0.05  | 08/31/01 | 8270c               | ---                    | 14.8               | 93.8                | 92.3             | 110.9            |
| Naphthalene                  | <0.05  | µg/L  | 0.05             | <0.05  | 08/31/01 | 8270c               | ---                    | 26.1               | 42.3                | 99.5             | 86.7             |
| Phenanthrene                 | <0.05  | µg/L  | 0.05             | <0.05  | 08/31/01 | 8270c               | ---                    | 10.9               | 94.7                | 94.6             | 107.8            |

Client: Environmental Tech Group  
Attn: Ken Dutton

Project ID: Darr Angell 4 / EOT 2075C  
Sample Name: MW 4

Report#/Lab ID#: 118660  
Sample Matrix: water

**REPORT OF ANALYSIS-cont.**

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

| Parameter | Result | Units | RQL <sup>5</sup> | Blank | Date     | Method <sup>6</sup> | Data Qual <sup>7</sup> | Prec. <sup>2</sup> | Recov. <sup>3</sup> | CCV <sup>4</sup> | LCS <sup>4</sup> |
|-----------|--------|-------|------------------|-------|----------|---------------------|------------------------|--------------------|---------------------|------------------|------------------|
| Pyrene    | <0.05  | µg/L  | 0.05             | <0.05 | 08/31/01 | 8270c               | ---                    | 14.4               | 91.4                | 97.3             | 107.2            |

**Client:** Environmental Tech Group  
**Attn:** Ken Dutton

**Project ID:** Darr Angell 4 / EOT 2075C  
**Sample Name:** MW 4

**Report#/Lab ID#:** 118660  
**Sample Matrix:** water

# REPORT OF SURROGATE RECOVERY

| Surrogate Compound                                   | Method | Recovery | Recovery Limit | Data Qualifiers |
|------------------------------------------------------|--------|----------|----------------|-----------------|
| 1,2-Dichloroethane-d4<br>Toluene-d8                  | 8260b  | 101      | 80-120         | ---             |
|                                                      | 8260b  | 102      | 88-110         | ---             |
| 2-Fluorobiphenyl<br>Nitrobenzene-d5<br>Terphenyl-d14 | 8270c  | 46.7     | 43-116         | ---             |
|                                                      | 8270c  | 76.1     | 35-114         | ---             |
|                                                      | 8270c  | 65.8     | 33-141         | ---             |

Data Qualifiers: D= Surrogates diluted and X= Surrogates outside advisory recovery limits.



# Exception Report:

|                                       |               |                  |
|---------------------------------------|---------------|------------------|
| Report #/Lab ID#: 118660              | Matrix: water | Attn: Ken Dutton |
| Client: Environmental Tech Group      |               |                  |
| Project ID: Darr Angell 4 / EOT 2075C |               |                  |
| Sample Name: MW 4                     |               |                  |

## Sample Temperature/Condition <=6°C

The typical sample temperature criteria (except for metals by ICP, GFAA and AA and a very few other tests) is <= 6°C. Possible exceptions include samples submitted to laboratory within such a short time after sampling that cooling measures used in the field and during transport had insufficient time to achieve desired temperatures in the samples (see sample collection and sample receipt times) and samples where the temperature could not be measured due to sample submission in a manner precluding temperature measurement without impacting sample integrity (ex. in a bottle with no cooler).

## Sample Bottles & Preservation

- ☒ Sample received in appropriate container(s) and appear to be appropriately preserved.
- ☐ Sample received in appropriate container(s). State of sample preservation unknown.
- ☐ Sample received in inappropriate container(s) and/or with unknown state of preservation.

## J flag Discussion

A J flag data qualifier indicates (as required under TNRCC-TRRP reporting requirements) that the raw calculated analyte concentration in the sample (uncorrected for background levels/blanks and other potential sources of sampling and analytical contamination), though less than the Reported Quantitation Limit (RQL) is greater than the Detection Limit. Because the reported result is below the quantitation limit for this project/sample (or test procedure), GC/MS organics results may or MAY NOT have been verified as to the presence and relative ratio of target ions (eg. the material causing the J flag "hit" in such situations may be nothing more than background ion-fragment noise.)

## Comments pertaining to Data Qualifiers and QC data:

| Parameter   | Qualif | Comment                      |
|-------------|--------|------------------------------|
| Cobalt/ICP  | J      | See J-flag discussion above. |
| Copper/ICP  | J      | See J-flag discussion above. |
| Lead/ICP    | J      | See J-flag discussion above. |
| Nickel/ICP  | J      | See J-flag discussion above. |
| m,p-Xylenes | J      | See J-flag discussion above. |
| Toluene     | J      | See J-flag discussion above. |

## Notes:

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**Client:** Environmental Tech Group  
**Attn:** Ken Dutton  
**Address:** 2540 W. Marland  
Hobbs Nm 88240  
**Phone:** 505 397-4882 **FAX:** 505 397-4701

**Report#/Lab ID#:** 118661 **Report Date:** 09/13/01  
**Project ID:** Dart Angell 4 / EOT 2075C  
**Sample Name:** MW 5  
**Sample Matrix:** water  
**Date Received:** 08/24/2001 **Time:** 12:31  
**Date Sampled:** 08/21/2001 **Time:** 00:00

**REPORT OF ANALYSIS**

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

| Parameter              | Result  | Units    | RQL <sup>5</sup> | Blank   | Date     | Method <sup>6</sup> | Data Qual <sup>7</sup> | Prec. <sup>2</sup> | Recov. <sup>3</sup> | CCV <sup>4</sup> | LCS <sup>4</sup> |
|------------------------|---------|----------|------------------|---------|----------|---------------------|------------------------|--------------------|---------------------|------------------|------------------|
| A/BN extraction-PAH    | ---     | ---      | ---              | ---     | 08/28/01 | 3520                | ---                    | ---                | ---                 | ---              | ---              |
| Hardness               | 2000    | mg/L CaC | ---              | ---     | 09/13/01 | SM 2340B            | ---                    | ---                | ---                 | ---              | ---              |
| Metals Dig.-Hg         | ---     | ---      | ---              | ---     | 08/28/01 | 7470&245.1          | ---                    | ---                | ---                 | ---              | ---              |
| Metals Dig.-HNO3       | ---     | ---      | ---              | ---     | 08/28/01 | 3015                | ---                    | ---                | ---                 | ---              | ---              |
| Total dissolved solids | 504     | mg/L     | 1                | <1      | 08/28/01 | 160.1               | ---                    | 1.59               | -NA-                | -NA-             | -NA-             |
| Aluminum/ICP           | 13.2    | mg/L     | 0.2              | <0.2    | 08/30/01 | 6010 & 200.7        | ---                    | 7.92               | 99.77               | 103.31           | 97.92            |
| Arsenic/ICP            | <0.05   | mg/L     | 0.05             | <0.05   | 08/30/01 | 6010 & 200.7        | ---                    | 7.03               | 109.66              | 107.95           | 105.27           |
| Barium/ICP             | 0.325   | mg/L     | 0.01             | <0.01   | 08/30/01 | 6010 & 200.7        | ---                    | 9.31               | 77.99               | 98.25            | 81.08            |
| Boron/ICP              | 0.146   | mg/L     | 0.02             | <0.02   | 08/30/01 | 6010 & 200.7        | ---                    | 6.6                | 102.26              | 108              | 101.23           |
| Cadmium/ICP            | <0.005  | mg/L     | 0.005            | <0.005  | 08/30/01 | 6010 & 200.7        | ---                    | 6.94               | 101.61              | 98               | 99.8             |
| Calcium/ICP            | 744     | mg/L     | 10               | <10     | 09/06/01 | 6010 & 200.7        | ---                    | 5.62               | 109.46              | 103.18           | 105.79           |
| Chromium/ICP           | 0.0296  | mg/L     | 0.01             | <0.01   | 08/30/01 | 6010 & 200.7        | ---                    | 7.39               | 103.01              | 97.13            | 101.42           |
| Cobalt/ICP             | 0.0221  | mg/L     | 0.02             | <0.02   | 08/30/01 | 6010 & 200.7        | ---                    | 6.84               | 103.77              | 98               | 101.64           |
| Copper/ICP             | 0.0525  | mg/L     | 0.02             | <0.02   | 08/30/01 | 6010 & 200.7        | ---                    | 7.93               | 95.54               | 95.75            | 93.87            |
| Iron/ICP               | 8.27    | mg/L     | 0.05             | <0.05   | 08/30/01 | 6010 & 200.7        | ---                    | 6.42               | 103.98              | 100.4            | 101.28           |
| Lead/ICP               | <0.02   | mg/L     | 0.02             | <0.02   | 08/30/01 | 6010 & 200.7        | J                      | 7.38               | 109.25              | 107.75           | 106.49           |
| Magnesium/ICP          | 32      | mg/L     | 5                | <5      | 09/06/01 | 6010 & 200.7        | ---                    | 8.86               | 95.93               | 96.65            | 95.41            |
| Manganese/ICP          | 0.379   | mg/L     | 0.01             | <0.01   | 08/30/01 | 6010 & 200.7        | ---                    | 6.84               | 104.96              | 101              | 102.77           |
| Mercury/CVAA           | <0.0002 | mg/L     | 0.0002           | <0.0002 | 08/29/01 | 245.1&7470          | ---                    | 4.44               | 88.89               | 118              | 99.33            |
| Molybdenum/ICP         | <0.02   | mg/L     | 0.02             | <0.02   | 08/30/01 | 6010 & 200.7        | J                      | 7.8                | 102.24              | 98.75            | 98.09            |
| Nickel/ICP             | 0.0333  | mg/L     | 0.02             | <0.02   | 08/30/01 | 6010 & 200.7        | ---                    | 6.88               | 107.29              | 106.75           | 104.36           |

This analytical report is respectfully submitted by AnalySys, Inc. The enclosed results have been carefully reviewed and, to the best of my knowledge, the analytical results are consistent with AnalySys, Inc.'s Quality Assurance/Quality Control Program. © Copyright 2000, AnalySys, Inc., Austin, TX. All rights reserved. No part of this publication may be reproduced or transmitted in any form or by any means without the express written consent of AnalySys, Inc.

Respectfully Submitted,

*Richard Lasler*

Richard Lasler

1. Quality assurance data is for the sample batch 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 Laboratory Control Sample (LCS) results are expressed as the percent (%) recovery of analyte from a known standard or matrix. 5. Reporting Quantitation Limits (RQL), typically at or above the Practical Quantitation Limit (PQL) of the analytical method. 6. Method numbers typically denote USEPA procedures. Less than (" $<$ ") values reflect nominal quantitation limits adjusted for any required dilutions. 7. Data Qualifiers are J = analyte potentially present between the PQL and the MDL. B = Analyte detected in associated method blank(s). S1 = MS and/or MSD recovery exceed advisory limits. S2 = Post digestion spike (PDS) recovery exceeds advisory limit. S3 = MS and/or MSD and PDS recoveries exceed advisory limits. P = Precision higher than advisory limit. M = Matrix interference.

Client: Environmental Tech Group  
Attn: Ken Dutton

Project ID: Darr Angell 4 / EOT 2075C  
Sample Name: MW 5

Report#/Lab ID#: 118661  
Sample Matrix: water

# REPORT OF ANALYSIS-cont.

## QUALITY ASSURANCE DATA 1

| Parameter                    | Result | Units | RQL <sup>5</sup> | Blank  | Date     | Method <sup>6</sup> | Data Qual <sup>7</sup> | Prec. <sup>2</sup> | Recov. <sup>3</sup> | CCV <sup>4</sup> | LCS <sup>4</sup> |
|------------------------------|--------|-------|------------------|--------|----------|---------------------|------------------------|--------------------|---------------------|------------------|------------------|
| Potassium/AA                 | 6.17   | mg/L  | 0.5              | <0.5   | 08/30/01 | 258.1&7610          | ---                    | 7.08               | 114.81              | 84.39            | 91.65            |
| Selenium/ICP                 | <0.05  | mg/L  | 0.05             | <0.05  | 08/30/01 | 6010 & 200.7        | ---                    | 7.05               | 106.04              | 104.85           | 102.91           |
| Silver/GFAA                  | 0.0028 | mg/L  | 0.002            | <0.002 | 08/29/01 | 272.2&7761          | ---                    | 19.55              | 127.52              | 87.5             | 98               |
| Sodium/ICP                   | 41.4   | mg/L  | 0.5              | <0.5   | 08/30/01 | 6010 & 200.7        | ---                    | 8.14               | 85.76               | 94.5             | 88.69            |
| Zinc/ICP                     | 0.112  | mg/L  | 0.01             | <0.01  | 08/30/01 | 6010 & 200.7        | ---                    | 7.65               | 106.4               | 101.88           | 103.85           |
| Alkalinity, total            | 1400   | mg/L  | 20               | <20    | 09/04/01 | 310.1               | ---                    | 0                  | -NA-                | -NA-             | -NA-             |
| Chloride                     | 59.6   | mg/L  | 2.5              | <2.5   | 09/04/01 | 325.2&9251          | ---                    | 0.85               | 110.22              | 109.71           | 96.98            |
| Fluoride                     | 2.3    | mg/L  | 0.05             | <0.05  | 09/05/01 | 340.2               | ---                    | 2.05               | 87.62               | 113.84           | 113.84           |
| Nitrate/Nitrite-N            | 0.285  | mg/L  | 0.01             | <0.01  | 09/07/01 | 353.1               | ---                    | 2.27               | 77.66               | 101.59           | 97.73            |
| Sulfate                      | 115    | mg/L  | 5                | <5     | 08/30/01 | 375.4&9038          | ---                    | 2.6                | 105.48              | 101.98           | 102.95           |
| Extractable organics-PAH     | ---    | ---   | ---              | ---    | 08/31/01 | 8270c               | ---                    | ---                | ---                 | ---              | ---              |
| Volatile organics-8260b/BTEX | ---    | ---   | ---              | ---    | 08/31/01 | 8260b               | ---                    | ---                | ---                 | ---              | ---              |
| Benzene                      | <1     | µg/L  | 1                | <1     | 08/31/01 | 8260b               | ---                    | 2                  | 93.5                | 91.6             | 91               |
| Ethylbenzene                 | <1     | µg/L  | 1                | <1     | 08/31/01 | 8260b               | ---                    | 0.7                | 98.2                | 104.7            | 99.8             |
| m,p-Xylenes                  | <1     | µg/L  | 1                | <1     | 08/31/01 | 8260b               | ---                    | 0.6                | 100.3               | 107.2            | 102.3            |
| o-Xylene                     | <1     | µg/L  | 1                | <1     | 08/31/01 | 8260b               | ---                    | 0.5                | 103                 | 108.3            | 104.2            |
| Toluene                      | <1     | µg/L  | 1                | <1     | 08/31/01 | 8260b               | ---                    | 2.2                | 99.8                | 96.3             | 96.1             |
| Acenaphthene                 | <0.05  | µg/L  | 0.05             | <0.05  | 08/31/01 | 8270c               | ---                    | 24.5               | 64.8                | 97               | 90.9             |
| Acenaphthylene               | <0.05  | µg/L  | 0.05             | <0.05  | 08/31/01 | 8270c               | ---                    | 20.7               | 66.9                | 104.3            | 98.5             |
| Anthracene                   | <0.05  | µg/L  | 0.05             | <0.05  | 08/31/01 | 8270c               | ---                    | 11                 | 89                  | 98.8             | 101.4            |
| Benzo[a]anthracene           | <0.05  | µg/L  | 0.05             | <0.05  | 08/31/01 | 8270c               | ---                    | 14.4               | 92.8                | 91.3             | 109.4            |
| Benzo[a]pyrene               | <0.05  | µg/L  | 0.05             | <0.05  | 08/31/01 | 8270c               | ---                    | 12.8               | 90                  | 96               | 104.1            |
| Benzo[b]fluoranthene         | <0.05  | µg/L  | 0.05             | <0.05  | 08/31/01 | 8270c               | ---                    | 16.2               | 91.8                | 89.5             | 108              |
| Benzo[g,h,i]perylene         | <0.05  | µg/L  | 0.05             | <0.05  | 08/31/01 | 8270c               | ---                    | 14.3               | 95.4                | 93.7             | 112.3            |
| Benzo[j,k]fluoranthene       | <0.05  | µg/L  | 0.05             | <0.05  | 08/31/01 | 8270c               | ---                    | 17.8               | 88.1                | 99.3             | 101.6            |
| Chrysene                     | <0.05  | µg/L  | 0.05             | <0.05  | 08/31/01 | 8270c               | ---                    | 14.6               | 95.2                | 100.5            | 111.6            |
| Dibenz[a,h]anthracene        | <0.05  | µg/L  | 0.05             | <0.05  | 08/31/01 | 8270c               | ---                    | 14.9               | 96.8                | 91.7             | 108              |
| Fluoranthene                 | <0.05  | µg/L  | 0.05             | <0.05  | 08/31/01 | 8270c               | ---                    | 10                 | 95.1                | 99.6             | 107.8            |
| Fluorene                     | <0.05  | µg/L  | 0.05             | <0.05  | 08/31/01 | 8270c               | ---                    | 22.5               | 75.6                | 99.7             | 96.2             |
| Indeno[1,2,3-cd]pyrene       | <0.05  | µg/L  | 0.05             | <0.05  | 08/31/01 | 8270c               | ---                    | 14.8               | 93.8                | 92.3             | 110.9            |
| Naphthalene                  | <0.05  | µg/L  | 0.05             | <0.05  | 08/31/01 | 8270c               | ---                    | 26.1               | 42.3                | 99.5             | 86.7             |
| Phenanthrene                 | <0.05  | µg/L  | 0.05             | <0.05  | 08/31/01 | 8270c               | ---                    | 10.9               | 94.7                | 94.6             | 107.8            |

Client: Environmental Tech Group  
 Attn: Ken Dutton

Project ID: Darr Angell 4 / EOT 2075C  
 Sample Name: MW

Report#/Lab ID#: 118661  
 Sample Matrix: water

REPORT OF ANALYSIS-conf.

QUALITY ASSURANCE DATA<sup>1</sup>

| Parameter | Result | Units | RQL <sup>5</sup> | Blank | Date     | Method <sup>6</sup> | Data Qual <sup>7</sup> | Prec. <sup>2</sup> | Recov. <sup>3</sup> | CCV <sup>4</sup> | LCS <sup>4</sup> |
|-----------|--------|-------|------------------|-------|----------|---------------------|------------------------|--------------------|---------------------|------------------|------------------|
| Pyrene    | <0.05  | µg/L  | 0.05             | <0.05 | 08/31/01 | 8270c               | ---                    | 14.4               | 91.4                | 97.3             | 107.2            |

Report#/Lab ID#: 118661  
Sample Matrix: water

Project ID: Darr Angell 4 / EOT 2075C  
Sample Name: MW

Client: Environmental Tech Group  
Attn: Ken Dutton

**REPORT OF SURROGATE RECOVERY**

| Surrogate Compound                                   | Method | Recovery | Recovery Limit | Data Qualifiers |
|------------------------------------------------------|--------|----------|----------------|-----------------|
| 1,2-Dichloroethane-d4<br>Toluene-d8                  | 8260b  | 107      | 80-120         | ---             |
|                                                      | 8260b  | 98.1     | 88-110         | ---             |
| 2-Fluorobiphenyl<br>Nitrobenzene-d5<br>Terphenyl-d14 | 8270c  | 43       | 43-116         | ---             |
|                                                      | 8270c  | 47.9     | 35-114         | ---             |
|                                                      | 8270c  | 43       | 33-141         | ---             |

Data Qualifiers: D= Surrogates diluted and X= Surrogates outside advisory recovery limits.

## Exception Report:

|                                       |               |                  |
|---------------------------------------|---------------|------------------|
| Report #/Lab ID#: 118661              | Matrix: water | Attn: Ken Dutton |
| Client: Environmental Tech Group      |               |                  |
| Project ID: Darr Angell 4 / EOT 2075C |               |                  |
| Sample Name: MW                       |               |                  |

### Sample Temperature/Condition <=6°C

The typical sample temperature criteria (except for metals by ICP, GFAA and AA and a very few other tests) is <= 6°C. Possible exceptions include samples submitted to laboratory within such a short time after sampling that cooling measures used in the field and during transport had insufficient time to achieve desired temperatures in the samples (see sample collection and sample receipt times) and samples where the temperature could not be measured due to sample submission in a manner precluding temperature measurement without impacting sample integrity (ex. in a bottle with no cooler).

### Sample Bottles & Preservation

- ☒ Sample received in appropriate container(s) and appear to be appropriately preserved.  
☐ Sample received in appropriate container(s). State of sample preservation unknown.  
☐ Sample received in inappropriate container(s) and/or with unknown state of preservation.

### J flag Discussion

A J flag data qualifier indicates (as required under TNRCC-TRRP reporting requirements) that the raw calculated analyte concentration in the sample (uncorrected for background levels/blanks and other potential sources of sampling and analytical contamination), though less than the Reported Quantitation Limit (RQL) is greater than the Detection Limit. Because the reported result is below the quantitation limit for this project/sample (or test procedure), GC/MS organics results may or MAY NOT have been verified as to the presence and relative ratio of target ions (eg. the material causing the J flag "hit" in such situations may be nothing more than background ion-fragment noise.)

### Comments pertaining to Data Qualifiers and QC data:

| Parameter      | Qualif | Comment                      |
|----------------|--------|------------------------------|
| Lead/ICP       | J      | See J-flag discussion above. |
| Molybdenum/ICP | J      | See J-flag discussion above. |

### Notes:

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**Client:** Environmental Tech Group  
**Attn:** Ken Dutton  
**Address:** 2540 W. Marland  
Hobbs

Nm 88240

**Phone:** 505 397-4882 **FAX:** 505 397-4701

**Report#/Lab ID#:** 118662 **Report Date:** 09/13/01  
**Project ID:** Dart Angell 4 / EOT 2075C

**Sample Name:** MW 6

**Sample Matrix:** water

**Date Received:** 08/24/2001 **Time:** 12:31

**Date Sampled:** 08/21/2001 **Time:** 00:00

## REPORT OF ANALYSIS

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

| Parameter              | Result  | Units    | RQL <sup>5</sup> | Blank   | Date     | Method <sup>6</sup> | Data Qual <sup>7</sup> | Prec. <sup>2</sup> | Recov. <sup>3</sup> | CCV <sup>4</sup> | LCS <sup>4</sup> |
|------------------------|---------|----------|------------------|---------|----------|---------------------|------------------------|--------------------|---------------------|------------------|------------------|
| A/BN extraction-PAH    | ---     | ---      | ---              | ---     | 08/28/01 | 3520                | ---                    | ---                | ---                 | ---              | ---              |
| Hardness               | 810     | mg/L CaC | ---              | ---     | 09/13/01 | SM 2340B            | ---                    | ---                | ---                 | ---              | ---              |
| Metals Dig.-Hg         | ---     | ---      | ---              | ---     | 08/28/01 | 7470&245.1          | ---                    | ---                | ---                 | ---              | ---              |
| Metals Dig.-HNO3       | ---     | ---      | ---              | ---     | 08/28/01 | 3015                | ---                    | ---                | ---                 | ---              | ---              |
| Total dissolved solids | 570     | mg/L     | 1                | <1      | 08/28/01 | 160.1               | ---                    | 1.59               | -NA-                | -NA-             | -NA-             |
| Aluminum/ICP           | <0.2    | mg/L     | 0.2              | <0.2    | 08/30/01 | 6010 & 200.7        | ---                    | 7.92               | 99.77               | 103.31           | 97.92            |
| Arsenic/ICP            | <0.05   | mg/L     | 0.05             | <0.05   | 08/30/01 | 6010 & 200.7        | ---                    | 7.03               | 109.66              | 107.95           | 105.27           |
| Barium/ICP             | 0.115   | mg/L     | 0.01             | <0.01   | 08/30/01 | 6010 & 200.7        | ---                    | 9.31               | 77.99               | 98.25            | 81.08            |
| Boron/ICP              | 0.165   | mg/L     | 0.02             | <0.02   | 08/30/01 | 6010 & 200.7        | ---                    | 6.6                | 102.26              | 108              | 101.23           |
| Cadmium/ICP            | <0.005  | mg/L     | 0.005            | <0.005  | 08/30/01 | 6010 & 200.7        | ---                    | 6.94               | 101.61              | 98               | 99.8             |
| Calcium/ICP            | 303     | mg/L     | 10               | <10     | 09/06/01 | 6010 & 200.7        | ---                    | 5.62               | 109.46              | 103.18           | 105.79           |
| Chromium/ICP           | <0.01   | mg/L     | 0.01             | <0.01   | 08/30/01 | 6010 & 200.7        | ---                    | 7.39               | 103.01              | 97.13            | 101.42           |
| Cobalt/ICP             | <0.02   | mg/L     | 0.02             | <0.02   | 08/30/01 | 6010 & 200.7        | ---                    | 6.84               | 103.77              | 98               | 101.64           |
| Copper/ICP             | <0.02   | mg/L     | 0.02             | <0.02   | 08/30/01 | 6010 & 200.7        | ---                    | 7.93               | 95.54               | 95.75            | 93.87            |
| Iron/ICP               | 0.0559  | mg/L     | 0.05             | <0.05   | 08/30/01 | 6010 & 200.7        | ---                    | 6.42               | 103.98              | 100.4            | 101.28           |
| Lead/ICP               | <0.02   | mg/L     | 0.02             | <0.02   | 08/30/01 | 6010 & 200.7        | ---                    | 7.38               | 109.25              | 107.75           | 106.49           |
| Magnesium/ICP          | 12.2    | mg/L     | 5                | <5      | 09/06/01 | 6010 & 200.7        | ---                    | 8.86               | 95.93               | 96.65            | 95.41            |
| Manganese/ICP          | 0.108   | mg/L     | 0.01             | <0.01   | 08/30/01 | 6010 & 200.7        | ---                    | 6.84               | 104.96              | 101              | 102.77           |
| Mercury/CVAA           | <0.0002 | mg/L     | 0.0002           | <0.0002 | 08/29/01 | 245.1&7470          | ---                    | 4.44               | 88.89               | 118              | 99.33            |
| Molybdenum/ICP         | <0.02   | mg/L     | 0.02             | <0.02   | 08/30/01 | 6010 & 200.7        | ---                    | 7.8                | 102.24              | 98.75            | 98.09            |
| Nickel/ICP             | <0.02   | mg/L     | 0.02             | <0.02   | 08/30/01 | 6010 & 200.7        | ---                    | 6.88               | 107.29              | 106.75           | 104.36           |

This analytical report is respectfully submitted by AnalySys, Inc. The enclosed results have been carefully reviewed and, to the best of my knowledge, the analytical results are consistent with AnalySys, Inc.'s Quality Assurance/Quality Control Program. © Copyright 2000, AnalySys, Inc., Austin, TX. All rights reserved. No part of this publication may be reproduced or transmitted in any form or by any means without the express written consent of AnalySys, Inc.

Respectfully Submitted,

*Richard Laster*

Richard Laster

1. Quality assurance data is for the sample batch 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 Laboratory Control Sample (LCS) results are expressed as the percent (%) recovery of analyte from a known standard or matrix. 5. Reporting Quantitation Limits (RQL), typically at or above the Practical Quantitation Limit (PQL) of the analytical method. 6. Method numbers typically denote USEPA procedures. Less than (" $<$ ") values reflect nominal quantitation limits adjusted for any required dilutions. 7. Data Qualifiers are J = analyte potentially present below the PQL and the MDL, B = Analyte detected in associated method blank(s), S1 = MS and/or MSD recovery exceed advisory limits, S2 = Post digestion spike (PDS) recovery exceeds advisory limit, S3 = MS and/or MSD and PDS recoveries exceed advisory limits, P = Precision higher than advisory limit, M = Matrix interference.

Client: Environmental Tech Group  
Attn: Ken Dutton

Project ID: Darr Angell 4/EOT 2075C  
Sample Name: MW 6

Report#/Lab ID#: 118662  
Sample Matrix: water

# REPORT OF ANALYSIS-cont.

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

| Parameter                    | Result | Units | RQL <sup>5</sup> | Blank  | Date     | Method <sup>6</sup> | Data Qual <sup>7</sup> | Prec. <sup>2</sup> | Recov. <sup>3</sup> | CCV <sup>4</sup> | LCS <sup>4</sup> |
|------------------------------|--------|-------|------------------|--------|----------|---------------------|------------------------|--------------------|---------------------|------------------|------------------|
| Potassium/AA                 | 3.84   | mg/L  | 0.5              | <0.5   | 08/30/01 | 258.1&7610          | ---                    | 7.08               | 114.81              | 84.39            | 91.65            |
| Selenium/ICP                 | <0.05  | mg/L  | 0.05             | <0.05  | 08/30/01 | 6010 & 200.7        | ---                    | 7.05               | 106.04              | 104.85           | 102.91           |
| Silver/GFAA                  | 0.0154 | mg/L  | 0.002            | <0.002 | 08/29/01 | 272.2&7761          | ---                    | 19.55              | 127.52              | 87.5             | 98               |
| Sodium/ICP                   | 43.6   | mg/L  | 0.5              | <0.5   | 08/30/01 | 6010 & 200.7        | ---                    | 8.14               | 85.76               | 94.5             | 88.69            |
| Zinc/ICP                     | <0.01  | mg/L  | 0.01             | <0.01  | 08/30/01 | 6010 & 200.7        | J                      | 7.65               | 106.4               | 101.88           | 103.85           |
| Alkalinity, total            | 680    | mg/L  | 10               | <10    | 09/04/01 | 310.1               | ---                    | 0                  | -NA-                | -NA-             | -NA-             |
| Chloride                     | 55.9   | mg/L  | 2.5              | <2.5   | 09/04/01 | 325.2&9251          | ---                    | 0.85               | 110.22              | 109.71           | 96.98            |
| Fluoride                     | 2.7    | mg/L  | 0.05             | <0.05  | 09/05/01 | 340.2               | ---                    | 2.05               | 87.62               | 113.84           | 113.84           |
| Nitrate/Nitrite-N            | 0.294  | mg/L  | 0.01             | <0.01  | 09/07/01 | 353.1               | ---                    | 2.27               | 77.66               | 101.59           | 97.73            |
| Sulfate                      | 112    | mg/L  | 5                | <5     | 08/30/01 | 375.4&9038          | ---                    | 2.6                | 105.48              | 101.98           | 102.95           |
| Extractable organics-PAH     | ---    | ---   | ---              | ---    | 08/31/01 | 8270c               | ---                    | ---                | ---                 | ---              | ---              |
| Volatile organics-8260b/BTEX | ---    | ---   | ---              | ---    | 08/31/01 | 8260b               | ---                    | ---                | ---                 | ---              | ---              |
| Benzene                      | <1     | µg/L  | 1                | <1     | 08/31/01 | 8260b               | J                      | 2                  | 93.5                | 91.6             | 91               |
| Ethylbenzene                 | 60     | µg/L  | 1                | <1     | 08/31/01 | 8260b               | ---                    | 0.7                | 98.2                | 104.7            | 99.8             |
| m,p-Xylenes                  | 186    | µg/L  | 1                | <1     | 08/31/01 | 8260b               | ---                    | 0.6                | 100.3               | 107.2            | 102.3            |
| o-Xylene                     | 109    | µg/L  | 1                | <1     | 08/31/01 | 8260b               | ---                    | 0.5                | 103                 | 108.3            | 104.2            |
| Toluene                      | 38     | µg/L  | 1                | <1     | 08/31/01 | 8260b               | ---                    | 2.2                | 99.8                | 96.3             | 96.1             |
| Acenaphthene                 | 0.096  | µg/L  | 0.05             | <0.05  | 08/31/01 | 8270c               | ---                    | 24.5               | 64.8                | 97               | 90.9             |
| Acenaphthylene               | <0.05  | µg/L  | 0.05             | <0.05  | 08/31/01 | 8270c               | J                      | 20.7               | 66.9                | 104.3            | 98.5             |
| Anthracene                   | <0.05  | µg/L  | 0.05             | <0.05  | 08/31/01 | 8270c               | J                      | 11                 | 89                  | 98.8             | 101.4            |
| Benzo[a]anthracene           | <0.05  | µg/L  | 0.05             | <0.05  | 08/31/01 | 8270c               | J                      | 14.4               | 92.8                | 91.3             | 109.4            |
| Benzo[a]pyrene               | <0.05  | µg/L  | 0.05             | <0.05  | 08/31/01 | 8270c               | ---                    | 12.8               | 90                  | 96               | 104.1            |
| Benzo[b]fluoranthene         | <0.05  | µg/L  | 0.05             | <0.05  | 08/31/01 | 8270c               | ---                    | 16.2               | 91.8                | 89.5             | 108              |
| Benzo[g,h,i]perylene         | <0.05  | µg/L  | 0.05             | <0.05  | 08/31/01 | 8270c               | ---                    | 14.3               | 95.4                | 93.7             | 112.3            |
| Benzo[j,k]fluoranthene       | <0.05  | µg/L  | 0.05             | <0.05  | 08/31/01 | 8270c               | ---                    | 17.8               | 88.1                | 99.3             | 101.6            |
| Chrysene                     | <0.05  | µg/L  | 0.05             | <0.05  | 08/31/01 | 8270c               | ---                    | 14.6               | 95.2                | 100.5            | 111.6            |
| Dibenz[a,h]anthracene        | <0.05  | µg/L  | 0.05             | <0.05  | 08/31/01 | 8270c               | ---                    | 14.9               | 96.8                | 91.7             | 108              |
| Fluoranthene                 | <0.05  | µg/L  | 0.05             | <0.05  | 08/31/01 | 8270c               | ---                    | 10                 | 95.1                | 99.6             | 107.8            |
| Fluorene                     | 0.695  | µg/L  | 0.05             | <0.05  | 08/31/01 | 8270c               | ---                    | 22.5               | 75.6                | 99.7             | 96.2             |
| Indenof[1,2,3-cd]pyrene      | <0.05  | µg/L  | 0.05             | <0.05  | 08/31/01 | 8270c               | ---                    | 14.8               | 93.8                | 92.3             | 110.9            |
| Naphthalene                  | 7.31   | µg/L  | 0.05             | <0.05  | 08/31/01 | 8270c               | ---                    | 26.1               | 42.3                | 99.5             | 86.7             |
| Phenanthrene                 | 0.526  | µg/L  | 0.05             | <0.05  | 08/31/01 | 8270c               | ---                    | 10.9               | 94.7                | 94.6             | 107.8            |



Client: Environmental Tech Group  
Attn: Ken Dutton

Project ID: Darr Angell 4/EOT 2075C  
Sample Name: MW 6

Report#/Lab ID#: 118662  
Sample Matrix: water

**REPORT OF ANALYSIS-cont.**

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

| Parameter | Result | Units | RQL <sup>5</sup> | Blank | Date     | Method <sup>6</sup> | Data Qual <sup>7</sup> | Prec. <sup>2</sup> | Recov. <sup>3</sup> | CCV <sup>4</sup> | LCS <sup>4</sup> |
|-----------|--------|-------|------------------|-------|----------|---------------------|------------------------|--------------------|---------------------|------------------|------------------|
| Pyrene    | <0.05  | µg/L  | 0.05             | <0.05 | 08/31/01 | 8270c               | ---                    | 14.4               | 91.4                | 97.3             | 107.2            |

**Client:** Environmental Tech Group  
**Attn:** Ken Dutton

**Project ID:** Darr Angell 4/EOT 2075C  
**Sample Name:** MW 6

**Report#/Lab ID#:** 118662  
**Sample Matrix:** water

**REPORT OF SURROGATE RECOVERY**

| Surrogate Compound                                   | Method | Recovery | Recovery Limit | Data Qualifiers |
|------------------------------------------------------|--------|----------|----------------|-----------------|
| 1,2-Dichloroethane-d4<br>Toluene-d8                  | 8260b  | 105      | 80-120         | ---             |
|                                                      | 8260b  | 97.8     | 88-110         | ---             |
| 2-Fluorobiphenyl<br>Nitrobenzene-d5<br>Terphenyl-d14 | 8270c  | 44       | 43-116         | ---             |
|                                                      | 8270c  | 54.6     | 35-114         | ---             |
|                                                      | 8270c  | 49       | 33-141         | ---             |

Data Qualifiers: D= Surrogates diluted and X= Surrogates outside advisory recovery limits.

# Exception Report:

|                                       |               |                  |
|---------------------------------------|---------------|------------------|
| Report #/Lab ID#: 118662              | Matrix: water | Attn: Ken Dutton |
| Client: Environmental Tech Group      |               |                  |
| Project ID: Darr Angell 4 / EOT 2075C |               |                  |
| Sample Name: MW 6                     |               |                  |

## Sample Temperature/Condition <=6°C

The typical sample temperature criteria (except for metals by ICP, GFAA and AA and a very few other tests) is <= 6°C. Possible exceptions include samples submitted to laboratory within such a short time after sampling that cooling measures used in the field and during transport had insufficient time to achieve desired temperatures in the samples (see sample collection and sample receipt times) and samples where the temperature could not be measured due to sample submission in a manner precluding temperature measurement without impacting sample integrity (ex. in a bottle with no cooler).

## Sample Bottles & Preservation

- ☒ Sample received in appropriate container(s) and appear to be appropriately preserved.
- ☐ Sample received in appropriate container(s). State of sample preservation unknown.
- ☐ Sample received in inappropriate container(s) and/or with unknown state of preservation.

## J flag Discussion

A J flag data qualifier indicates (as required under TNRCC-TRRP reporting requirements) that the raw calculated analyte concentration in the sample (uncorrected for background levels/blanks and other potential sources of sampling and analytical contamination), though less than the Reported Quantitation Limit (RQL) is greater than the Detection Limit. Because the reported result is below the quantitation limit for this project/sample (or test procedure), GC/MS organics results may or MAY NOT have been verified as to the presence and relative ratio of target ions (eg. the material causing the J flag "hit" in such situations may be nothing more than background ion-fragment noise.)

## Comments pertaining to Data Qualifiers and QC data:

| Parameter          | Qualif | Comment                      |
|--------------------|--------|------------------------------|
| Zinc/ICP           | J      | See J-flag discussion above. |
| Benzene            | J      | See J-flag discussion above. |
| Acenaphthylene     | J      | See J-flag discussion above. |
| Anthracene         | J      | See J-flag discussion above. |
| Benzo[a]anthracene | J      | See J-flag discussion above. |

## Notes:

**Client:** Environmental Tech Group  
**Attn:** Ken Dutton  
**Address:** 2540 W. Marland  
Hobbs

Nm 88240

**Phone:** 505 397-4882 **FAX:** 505 397-4701

**Report#/Lab ID#:** 118663 **Report Date:** 09/13/01  
**Project ID:** Darr Angell 4 / EOT 2075C  
**Sample Name:** MW 7

**Sample Matrix:** water

**Date Received:** 08/24/2001 **Time:** 12:31

**Date Sampled:** 08/21/2001 **Time:** 00:00

## REPORT OF ANALYSIS

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

| Parameter              | Result  | Units    | RQL <sup>5</sup> | Blank   | Date     | Method <sup>6</sup> | Data Qual <sup>7</sup> | Prec. <sup>2</sup> | Recov. <sup>3</sup> | CCV <sup>4</sup> | LCS <sup>4</sup> |
|------------------------|---------|----------|------------------|---------|----------|---------------------|------------------------|--------------------|---------------------|------------------|------------------|
| A/BN extraction-PAH    | ---     | ---      | ---              | ---     | 08/28/01 | 3520                | ---                    | ---                | ---                 | ---              | ---              |
| Hardness               | 1400    | mg/L CaC | ---              | ---     | 09/13/01 | SM 2340B            | ---                    | ---                | ---                 | ---              | ---              |
| Metals Dig.-Hg         | ---     | ---      | ---              | ---     | 08/28/01 | 7470&245.1          | ---                    | ---                | ---                 | ---              | ---              |
| Metals Dig.-HNO3       | ---     | ---      | ---              | ---     | 08/28/01 | 3015                | ---                    | ---                | ---                 | ---              | ---              |
| Total dissolved solids | 533     | mg/L     | 1                | <1      | 08/28/01 | 160.1               | ---                    | 1.59               | NA-                 | NA-              | NA-              |
| Aluminum/ICP           | 1.08    | mg/L     | 0.2              | <0.2    | 08/30/01 | 6010 & 200.7        | ---                    | 7.92               | 99.77               | 103.31           | 97.92            |
| Arsenic/ICP            | <0.05   | mg/L     | 0.05             | <0.05   | 08/30/01 | 6010 & 200.7        | ---                    | 7.03               | 109.66              | 107.95           | 105.27           |
| Barium/ICP             | 0.104   | mg/L     | 0.01             | <0.01   | 08/30/01 | 6010 & 200.7        | ---                    | 9.31               | 77.99               | 98.25            | 81.08            |
| Boron/ICP              | 0.152   | mg/L     | 0.02             | <0.02   | 08/30/01 | 6010 & 200.7        | ---                    | 6.6                | 102.26              | 108              | 101.23           |
| Cadmium/ICP            | <0.005  | mg/L     | 0.005            | <0.005  | 08/30/01 | 6010 & 200.7        | ---                    | 6.94               | 101.61              | 98               | 99.8             |
| Calcium/ICP            | 527     | mg/L     | 10               | <10     | 09/06/01 | 6010 & 200.7        | ---                    | 5.62               | 109.46              | 103.18           | 105.79           |
| Chromium/ICP           | <0.01   | mg/L     | 0.01             | <0.01   | 08/30/01 | 6010 & 200.7        | ---                    | 7.39               | 103.01              | 97.13            | 101.42           |
| Cobalt/ICP             | <0.02   | mg/L     | 0.02             | <0.02   | 08/30/01 | 6010 & 200.7        | ---                    | 6.84               | 103.77              | 98               | 101.64           |
| Copper/ICP             | <0.02   | mg/L     | 0.02             | <0.02   | 08/30/01 | 6010 & 200.7        | ---                    | 7.93               | 95.54               | 95.75            | 93.87            |
| Iron/ICP               | 0.612   | mg/L     | 0.05             | <0.05   | 08/30/01 | 6010 & 200.7        | ---                    | 6.42               | 103.98              | 100.4            | 101.28           |
| Lead/ICP               | <0.02   | mg/L     | 0.02             | <0.02   | 08/30/01 | 6010 & 200.7        | ---                    | 7.38               | 109.25              | 107.75           | 106.49           |
| Magnesium/ICP          | 10.5    | mg/L     | 5                | <5      | 09/06/01 | 6010 & 200.7        | ---                    | 8.86               | 95.93               | 96.65            | 95.41            |
| Manganese/ICP          | 0.0634  | mg/L     | 0.01             | <0.01   | 08/30/01 | 6010 & 200.7        | ---                    | 6.84               | 104.96              | 101              | 102.77           |
| Mercury/CVAA           | <0.0002 | mg/L     | 0.0002           | <0.0002 | 08/29/01 | 245.1&7470          | ---                    | 4.44               | 88.89               | 118              | 99.33            |
| Molybdenum/ICP         | <0.02   | mg/L     | 0.02             | <0.02   | 08/30/01 | 6010 & 200.7        | ---                    | 7.8                | 102.24              | 98.75            | 98.09            |
| Nickel/ICP             | <0.02   | mg/L     | 0.02             | <0.02   | 08/30/01 | 6010 & 200.7        | J                      | 6.88               | 107.29              | 106.75           | 104.36           |

This analytical report is respectfully submitted by AnalySys, Inc. The enclosed results have been carefully reviewed and, to the best of my knowledge, the analytical results are consistent with AnalySys, Inc.'s Quality Assurance/Quality Control Program. © Copyright 2000, AnalySys, Inc., Austin, TX. All rights reserved. No part of this publication may be reproduced or transmitted in any form or by any means without the express written consent of AnalySys, Inc.

Respectfully Submitted,

*Richard Laster*

Richard Laster

1. Quality assurance data is for the sample batch 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 Laboratory Control Sample (LCS) results are expressed as the percent (%) recovery of analyte from a known standard or matrix. 5. Reporting Quantitation Limits (RQL), typically at or above the Practical Quantitation Limit (PQL) of the analytical method. 6. Method numbers typically denote USEPA procedures. Less than (" $<$ ") values reflect nominal quantitation limits adjusted for any required dilutions. 7. Data Qualifiers are J = analyte potentially present between the PQL and the MDL. B = Analyte detected in associated method blank(s). S1 = MS and/or MSD recovery exceed advisory limits. S2 = Post digestion spike (PDS) recovery exceeds advisory limit. S3 = MS and/or MSD and PDS recoveries exceed advisory limits. P = Precision higher than advisory limit. M = Matrix interference.

**Client:** Environmental Tech Group  
**Attn:** Ken Dutton

**Project ID:** Darr Angell 4 / EOT 2075C  
**Sample Name:** MW 7

**Report#/Lab ID#:** 118663  
**Sample Matrix:** water

**REPORT OF ANALYSIS-cont.**

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

| Parameter                    | Result | Units | RQL <sup>5</sup> | Blank  | Date     | Method <sup>6</sup> | Data Qual <sup>7</sup> | Prec. <sup>2</sup> | Recov. <sup>3</sup> | CCV <sup>4</sup> | LCS <sup>4</sup> |
|------------------------------|--------|-------|------------------|--------|----------|---------------------|------------------------|--------------------|---------------------|------------------|------------------|
| Potassium/AA                 | 3.73   | mg/L  | 0.5              | <0.5   | 08/30/01 | 258.1&7610          | ---                    | 7.08               | 114.81              | 84.39            | 91.65            |
| Selenium/ICP                 | <0.05  | mg/L  | 0.05             | <0.05  | 08/30/01 | 6010 & 200.7        | ---                    | 7.05               | 106.04              | 104.85           | 102.91           |
| Silver/GFAA                  | <0.002 | mg/L  | 0.002            | <0.002 | 08/29/01 | 272.2&7761          | ---                    | 19.55              | 127.52              | 87.5             | 98               |
| Sodium/ICP                   | 41.9   | mg/L  | 0.5              | <0.5   | 08/30/01 | 6010 & 200.7        | ---                    | 8.14               | 85.76               | 94.5             | 88.69            |
| Zinc/ICP                     | <0.01  | mg/L  | 0.01             | <0.01  | 08/30/01 | 6010 & 200.7        | J                      | 7.65               | 106.4               | 101.88           | 103.85           |
| Alkalinity, total            | 2000   | mg/L  | 20               | <20    | 09/04/01 | 310.1               | ---                    | 0                  | -NA-                | -NA-             | -NA-             |
| Chloride                     | 58     | mg/L  | 2.5              | <2.5   | 09/04/01 | 325.2&9251          | ---                    | 0.85               | 110.22              | 109.71           | 96.98            |
| Fluoride                     | 2.5    | mg/L  | 0.05             | <0.05  | 09/05/01 | 340.2               | ---                    | 2.05               | 87.62               | 113.84           | 113.84           |
| Nitrate/Nitrite-N            | 0.48   | mg/L  | 0.01             | <0.01  | 09/07/01 | 353.1               | ---                    | 2.27               | 77.66               | 101.59           | 97.73            |
| Sulfate                      | 99.9   | mg/L  | 5                | <5     | 08/30/01 | 375.4&9038          | ---                    | 2.6                | 105.48              | 101.98           | 102.95           |
| Extractable organics-PAH     | ---    | ---   | ---              | ---    | 08/31/01 | 8270c               | ---                    | ---                | ---                 | ---              | ---              |
| Volatile organics-8260b/BTEX | ---    | ---   | ---              | ---    | 08/31/01 | 8260b               | ---                    | ---                | ---                 | ---              | ---              |
| Benzene                      | <1     | µg/L  | 1                | <1     | 08/31/01 | 8260b               | ---                    | 2                  | 93.5                | 91.6             | 91               |
| Ethylbenzene                 | <1     | µg/L  | 1                | <1     | 08/31/01 | 8260b               | ---                    | 0.7                | 98.2                | 104.7            | 99.8             |
| m,p-Xylenes                  | <1     | µg/L  | 1                | <1     | 08/31/01 | 8260b               | J                      | 0.6                | 100.3               | 107.2            | 102.3            |
| o-Xylene                     | <1     | µg/L  | 1                | <1     | 08/31/01 | 8260b               | ---                    | 0.5                | 103                 | 108.3            | 104.2            |
| Toluene                      | <1     | µg/L  | 1                | <1     | 08/31/01 | 8260b               | ---                    | 2.2                | 99.8                | 96.3             | 96.1             |
| Acenaphthene                 | <0.05  | µg/L  | 0.05             | <0.05  | 08/31/01 | 8270c               | ---                    | 24.5               | 64.8                | 97               | 90.9             |
| Acenaphthylene               | <0.05  | µg/L  | 0.05             | <0.05  | 08/31/01 | 8270c               | ---                    | 20.7               | 66.9                | 104.3            | 98.5             |
| Anthracene                   | <0.05  | µg/L  | 0.05             | <0.05  | 08/31/01 | 8270c               | ---                    | 11                 | 89                  | 98.8             | 101.4            |
| Benzo[a]anthracene           | <0.05  | µg/L  | 0.05             | <0.05  | 08/31/01 | 8270c               | ---                    | 14.4               | 92.8                | 91.3             | 109.4            |
| Benzo[a]pyrene               | <0.05  | µg/L  | 0.05             | <0.05  | 08/31/01 | 8270c               | ---                    | 12.8               | 90                  | 96               | 104.1            |
| Benzo[b]fluoranthene         | <0.05  | µg/L  | 0.05             | <0.05  | 08/31/01 | 8270c               | ---                    | 16.2               | 91.8                | 89.5             | 108              |
| Benzo[g,h,i]perylene         | <0.05  | µg/L  | 0.05             | <0.05  | 08/31/01 | 8270c               | ---                    | 14.3               | 95.4                | 93.7             | 112.3            |
| Benzo[j,k]fluoranthene       | <0.05  | µg/L  | 0.05             | <0.05  | 08/31/01 | 8270c               | ---                    | 17.8               | 88.1                | 99.3             | 101.6            |
| Chrysene                     | <0.05  | µg/L  | 0.05             | <0.05  | 08/31/01 | 8270c               | ---                    | 14.6               | 95.2                | 100.5            | 111.6            |
| Dibenz[a,h]anthracene        | <0.05  | µg/L  | 0.05             | <0.05  | 08/31/01 | 8270c               | ---                    | 14.9               | 96.8                | 91.7             | 108              |
| Fluoranthene                 | <0.05  | µg/L  | 0.05             | <0.05  | 08/31/01 | 8270c               | ---                    | 10                 | 95.1                | 99.6             | 107.8            |
| Fluorene                     | <0.05  | µg/L  | 0.05             | <0.05  | 08/31/01 | 8270c               | ---                    | 22.5               | 75.6                | 99.7             | 96.2             |
| Indeno[1,2,3-cd]pyrene       | <0.05  | µg/L  | 0.05             | <0.05  | 08/31/01 | 8270c               | ---                    | 14.8               | 93.8                | 92.3             | 110.9            |
| Naphthalene                  | <0.05  | µg/L  | 0.05             | <0.05  | 08/31/01 | 8270c               | ---                    | 26.1               | 42.3                | 99.5             | 86.7             |
| Phenanthrene                 | <0.05  | µg/L  | 0.05             | <0.05  | 08/31/01 | 8270c               | ---                    | 10.9               | 94.7                | 94.6             | 107.8            |

Client: Environmental Tech Group  
Attn: Ken Dutton

Project ID: Darr Angell 4/EOT 2075C  
Sample Name: MW 7

Report#/Lab ID#: 118663  
Sample Matrix: water

**REPORT OF ANALYSIS-cont.**

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

| Parameter | Result | Units | RQL <sup>5</sup> | Blank | Date     | Method <sup>6</sup> | Data Qual <sup>7</sup> | Prec. <sup>2</sup> | Recov. <sup>3</sup> | CCV <sup>4</sup> | LCS <sup>4</sup> |
|-----------|--------|-------|------------------|-------|----------|---------------------|------------------------|--------------------|---------------------|------------------|------------------|
| Pyrene    | <0.05  | µg/L  | 0.05             | <0.05 | 08/31/01 | 8270c               | ---                    | 14.4               | 91.4                | 97.3             | 107.2            |

|                                                                    |                                                                          |                                                               |
|--------------------------------------------------------------------|--------------------------------------------------------------------------|---------------------------------------------------------------|
| <b>Client:</b> Environmental Tech Group<br><b>Attn:</b> Ken Dutton | <b>Project ID:</b> Darr Angell 4 / EOT 2075C<br><b>Sample Name:</b> MW 7 | <b>Report#/Lab ID#:</b> 118663<br><b>Sample Matrix:</b> water |
|--------------------------------------------------------------------|--------------------------------------------------------------------------|---------------------------------------------------------------|

**REPORT OF SURROGATE RECOVERY**

| Surrogate Compound    | Method | Recovery | Recovery Limit | Data Qualifiers |
|-----------------------|--------|----------|----------------|-----------------|
| 1,2-Dichloroethane-d4 | 8260b  | 100      | 80-120         | ---             |
| Toluene-d8            | 8260b  | 100      | 88-110         | ---             |
| 2-Fluorobiphenyl      | 8270c  | 46       | 43-116         | ---             |
| Nitrobenzene-d5       | 8270c  | 64.9     | 35-114         | ---             |
| Terphenyl-d14         | 8270c  | 46.9     | 33-141         | ---             |

Data Qualifiers: D= Surrogates diluted and X= Surrogates outside advisory recovery limits.

# Exception Report:

|                                       |               |                  |
|---------------------------------------|---------------|------------------|
| Report #/Lab ID#: 118663              | Matrix: water | Attn: Ken Dutton |
| Client: Environmental Tech Group      |               |                  |
| Project ID: Darr Angell 4 / EOT 2075C |               |                  |
| Sample Name: MW 7                     |               |                  |

## Sample Temperature/Condition <=6°C

The typical sample temperature criteria (except for metals by ICP, GFAA and AA and a very few other tests) is <= 6°C. Possible exceptions include samples submitted to laboratory within such a short time after sampling that cooling measures used in the field and during transport had insufficient time to achieve desired temperatures in the samples (see sample collection and sample receipt times) and samples where the temperature could not be measured due to sample submission in a manner precluding temperature measurement without impacting sample integrity (ex. in a bottle with no cooler).

## Sample Bottles & Preservation

- ☒ Sample received in appropriate container(s) and appear to be appropriately preserved.
- ☐ Sample received in appropriate container(s). State of sample preservation unknown.
- ☐ Sample received in inappropriate container(s) and/or with unknown state of preservation.

## J flag Discussion

A J flag data qualifier indicates (as required under TNRCC-TRRP reporting requirements) that the raw calculated analyte concentration in the sample (uncorrected for background levels/blanks and other potential sources of sampling and analytical contamination), though less than the Reported Quantitation Limit (RQL) is greater than the Detection Limit. Because the reported result is below the quantitation limit for this project/sample (or test procedure), GC/MS organics results may or MAY NOT have been verified as to the presence and relative ratio of target ions (eg. the material causing the J flag "hit" in such situations may be nothing more than background ion-fragment noise.)

## Comments pertaining to Data Qualifiers and QC data:

| Parameter   | Qualif | Comment                      |
|-------------|--------|------------------------------|
| Nickel/ICP  | J      | See J-flag discussion above. |
| Zinc/ICP    | J      | See J-flag discussion above. |
| m,p-Xylenes | J      | See J-flag discussion above. |

## Notes:

|  |
|--|
|  |
|  |
|  |



**Client:** Environmental Tech Group  
**Attn:** Ken Dutton  
**Address:** 2540 W. Marland  
Hobbs Nm 88240  
**Phone:** 505 397-4882 **FAX:** 505 397-4701

**Report#/Lab ID#:** 118664 **Report Date:** 09/13/01  
**Project ID:** Darr Angell 4 / EOT 2075C  
**Sample Name:** MW 8  
**Sample Matrix:** water  
**Date Received:** 08/24/2001 **Time:** 12:31  
**Date Sampled:** 08/21/2001 **Time:** 00:00

**REPORT OF ANALYSIS**

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

| Parameter              | Result  | Units    | RQL <sup>5</sup> | Blank   | Date     | Method <sup>6</sup> | Data Qual <sup>7</sup> | Prec. <sup>2</sup> | Recov. <sup>3</sup> | CCV <sup>4</sup> | LCS <sup>4</sup> |
|------------------------|---------|----------|------------------|---------|----------|---------------------|------------------------|--------------------|---------------------|------------------|------------------|
| A/BN extraction-PAH    | ---     | ---      | ---              | ---     | 08/28/01 | 3520                | ---                    | ---                | ---                 | ---              | ---              |
| Hardness               | 770     | mg/L CaC | ---              | ---     | 09/13/01 | SM 2340B            | ---                    | ---                | ---                 | ---              | ---              |
| Metals Dig.-Hg         | ---     | ---      | ---              | ---     | 08/28/01 | 7470&245.1          | ---                    | ---                | ---                 | ---              | ---              |
| Metals Dig.-HNO3       | ---     | ---      | ---              | ---     | 08/28/01 | 3015                | ---                    | ---                | ---                 | ---              | ---              |
| Total dissolved solids | 806     | mg/L     | 1                | <1      | 08/28/01 | 160.1               | ---                    | 1.59               | -NA-                | -NA-             | -NA-             |
| Aluminum/ICP           | <0.2    | mg/L     | 0.2              | <0.2    | 08/31/01 | 6010 & 200.7        | ---                    | 7.92               | 99.77               | 103.31           | 97.92            |
| Arsenic/ICP            | <0.05   | mg/L     | 0.05             | <0.05   | 08/31/01 | 6010 & 200.7        | ---                    | 7.03               | 109.66              | 107.95           | 105.27           |
| Barium/ICP             | 0.133   | mg/L     | 0.01             | <0.01   | 08/31/01 | 6010 & 200.7        | ---                    | 9.31               | 77.99               | 98.25            | 81.08            |
| Boron/ICP              | 0.159   | mg/L     | 0.02             | <0.02   | 08/31/01 | 6010 & 200.7        | ---                    | 6.6                | 102.26              | 108              | 101.23           |
| Cadmium/ICP            | <0.005  | mg/L     | 0.005            | <0.005  | 08/31/01 | 6010 & 200.7        | ---                    | 6.94               | 101.61              | 98               | 99.8             |
| Calcium/ICP            | 290     | mg/L     | 10               | <10     | 09/06/01 | 6010 & 200.7        | ---                    | 5.62               | 109.46              | 103.18           | 105.79           |
| Chromium/ICP           | <0.01   | mg/L     | 0.01             | <0.01   | 08/31/01 | 6010 & 200.7        | ---                    | 7.39               | 103.01              | 97.13            | 101.42           |
| Cobalt/ICP             | <0.02   | mg/L     | 0.02             | <0.02   | 08/31/01 | 6010 & 200.7        | ---                    | 6.84               | 103.77              | 98               | 101.64           |
| Copper/ICP             | <0.02   | mg/L     | 0.02             | <0.02   | 08/31/01 | 6010 & 200.7        | ---                    | 7.93               | 95.54               | 95.75            | 93.87            |
| Iron/ICP               | <0.05   | mg/L     | 0.05             | <0.05   | 08/31/01 | 6010 & 200.7        | J                      | 6.42               | 103.98              | 100.4            | 101.28           |
| Lead/ICP               | <0.02   | mg/L     | 0.02             | <0.02   | 08/31/01 | 6010 & 200.7        | ---                    | 7.38               | 109.25              | 107.75           | 106.49           |
| Magnesium/ICP          | 12      | mg/L     | 5                | <5      | 09/06/01 | 6010 & 200.7        | ---                    | 8.86               | 95.93               | 96.65            | 95.41            |
| Manganese/ICP          | 0.116   | mg/L     | 0.01             | <0.01   | 08/31/01 | 6010 & 200.7        | ---                    | 6.84               | 104.96              | 101              | 102.77           |
| Mercury/CVAA           | <0.0002 | mg/L     | 0.0002           | <0.0002 | 08/29/01 | 245.1&7470          | ---                    | 4.44               | 88.89               | 118              | 99.33            |
| Molybdenum/ICP         | <0.02   | mg/L     | 0.02             | <0.02   | 08/31/01 | 6010 & 200.7        | J                      | 7.8                | 102.24              | 98.75            | 98.09            |
| Nickel/ICP             | <0.02   | mg/L     | 0.02             | <0.02   | 08/31/01 | 6010 & 200.7        | ---                    | 6.88               | 107.29              | 106.75           | 104.36           |

This analytical report is respectfully submitted by AnalySys, Inc. The enclosed results have been carefully reviewed and, to the best of my knowledge, the analytical results are consistent with AnalySys, Inc.'s Quality Assurance/Quality Control Program. © Copyright 2000, AnalySys, Inc., Austin, TX. All rights reserved. No part of this publication may be reproduced or transmitted in any form or by any means without the express written consent of AnalySys, Inc.

Respectfully Submitted,

*Richard Laster*

Richard Laster

1. Quality assurance data is for the sample batch 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 Laboratory Control Sample (LCS) results are expressed as the percent (%) recovery of analyte from a known standard or matrix. 5. Reporting Quantitation Limits (RQL), typically at or above the Practical Quantitation Limit (PQL) of the analytical method. 6. Method numbers typically denote USEPA procedures. Less than ("<") values reflect nominal quantitation limits adjusted for any required dilutions. 7. Data Qualifiers are J = analyte potentially present between the PQL and the MDL. B = Analyte detected in associated method blank(s). S1 = MS and/or MSD recovery exceed advisory limits. S2 = Post digestion spike (PDS) recovery exceeds advisory limit. S3 = MS and/or MSD and PDS recoveries exceed advisory limits. P = Precision higher than advisory limit. M = Matrix interference.

**Client:** Environmental Tech Group  
**Attn:** Ken Dutton

**Project ID:** Dar Angell 4/EOT 2075C  
**Sample Name:** MW 8

**Report#/Lab ID#:** 118664  
**Sample Matrix:** water

**REPORT OF ANALYSIS-cont.**

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

| Parameter                    | Result | Units | RQL <sup>5</sup> | Blank  | Date     | Method <sup>6</sup> | Data Qual <sup>7</sup> | Prec. <sup>2</sup> | Recov. <sup>3</sup> | CCV <sup>4</sup> | LCS <sup>4</sup> |
|------------------------------|--------|-------|------------------|--------|----------|---------------------|------------------------|--------------------|---------------------|------------------|------------------|
| Potassium/AA                 | 4.03   | mg/L  | 0.5              | <0.5   | 08/30/01 | 258.1&7610          | ---                    | 7.08               | 114.81              | 84.39            | 91.65            |
| Selenium/ICP                 | <0.05  | mg/L  | 0.05             | <0.05  | 08/31/01 | 6010 & 200.7        | ---                    | 7.05               | 106.04              | 104.85           | 102.91           |
| Silver/GFAA                  | <0.002 | mg/L  | 0.002            | <0.002 | 08/29/01 | 272.2&7761          | ---                    | 19.55              | 127.52              | 87.5             | 98               |
| Sodium/ICP                   | 109    | mg/L  | 0.5              | <0.5   | 08/31/01 | 6010 & 200.7        | ---                    | 8.14               | 85.76               | 94.5             | 88.69            |
| Zinc/ICP                     | <0.01  | mg/L  | 0.01             | <0.01  | 08/31/01 | 6010 & 200.7        | J                      | 7.65               | 106.4               | 101.88           | 103.85           |
| Alkalinity, total            | 1200   | mg/L  | 20               | <20    | 09/04/01 | 310.1               | ---                    | 0                  | -NA-                | -NA-             | -NA-             |
| Chloride                     | 223    | mg/L  | 2.5              | <2.5   | 09/04/01 | 325.2&9251          | ---                    | 0.85               | 110.22              | 109.71           | 96.98            |
| Fluoride                     | 2.4    | mg/L  | 0.05             | <0.05  | 09/05/01 | 340.2               | ---                    | 2.05               | 87.62               | 113.84           | 113.84           |
| Nitrate/Nitrite-N            | 0.396  | mg/L  | 0.01             | <0.01  | 09/07/01 | 353.1               | ---                    | 2.27               | 77.66               | 101.59           | 97.73            |
| Sulfate                      | 89.6   | mg/L  | 5                | <5     | 08/30/01 | 375.4&9038          | ---                    | 2.6                | 105.48              | 101.98           | 102.95           |
| Extractable organics-PAH     | ---    | ---   | ---              | ---    | 08/31/01 | 8270c               | ---                    | ---                | ---                 | ---              | ---              |
| Volatile organics-8260b/BTEX | ---    | ---   | ---              | ---    | 08/31/01 | 8260b               | ---                    | ---                | ---                 | ---              | ---              |
| Benzene                      | 8.74   | µg/L  | 1                | <1     | 08/31/01 | 8260b               | ---                    | 2                  | 93.5                | 91.6             | 91               |
| Ethylbenzene                 | 31.7   | µg/L  | 1                | <1     | 08/31/01 | 8260b               | ---                    | 0.7                | 98.2                | 104.7            | 99.8             |
| m,p-Xylenes                  | 55.2   | µg/L  | 1                | <1     | 08/31/01 | 8260b               | ---                    | 0.6                | 100.3               | 107.2            | 102.3            |
| o-Xylene                     | 13.9   | µg/L  | 1                | <1     | 08/31/01 | 8260b               | ---                    | 0.5                | 103                 | 108.3            | 104.2            |
| Toluene                      | 4.14   | µg/L  | 1                | <1     | 08/31/01 | 8260b               | ---                    | 2.2                | 99.8                | 96.3             | 96.1             |
| Acenaphthene                 | <0.05  | µg/L  | 0.05             | <0.05  | 08/31/01 | 8270c               | ---                    | 24.5               | 64.8                | 97               | 90.9             |
| Acenaphthylene               | <0.05  | µg/L  | 0.05             | <0.05  | 08/31/01 | 8270c               | ---                    | 20.7               | 66.9                | 104.3            | 98.5             |
| Anthracene                   | <0.05  | µg/L  | 0.05             | <0.05  | 08/31/01 | 8270c               | ---                    | 11                 | 89                  | 98.8             | 101.4            |
| Benzo[a]anthracene           | <0.05  | µg/L  | 0.05             | <0.05  | 08/31/01 | 8270c               | ---                    | 14.4               | 92.8                | 91.3             | 109.4            |
| Benzo[a]pyrene               | <0.05  | µg/L  | 0.05             | <0.05  | 08/31/01 | 8270c               | ---                    | 12.8               | 90                  | 96               | 104.1            |
| Benzo[b]fluoranthene         | <0.05  | µg/L  | 0.05             | <0.05  | 08/31/01 | 8270c               | ---                    | 16.2               | 91.8                | 89.5             | 108              |
| Benzo[g,h,i]perylene         | <0.05  | µg/L  | 0.05             | <0.05  | 08/31/01 | 8270c               | ---                    | 14.3               | 95.4                | 93.7             | 112.3            |
| Benzo[j,k]fluoranthene       | <0.05  | µg/L  | 0.05             | <0.05  | 08/31/01 | 8270c               | ---                    | 17.8               | 88.1                | 99.3             | 101.6            |
| Chrysene                     | <0.05  | µg/L  | 0.05             | <0.05  | 08/31/01 | 8270c               | ---                    | 14.6               | 95.2                | 100.5            | 111.6            |
| Dibenz[a,h]anthracene        | <0.05  | µg/L  | 0.05             | <0.05  | 08/31/01 | 8270c               | ---                    | 14.9               | 96.8                | 91.7             | 108              |
| Fluoranthene                 | <0.05  | µg/L  | 0.05             | <0.05  | 08/31/01 | 8270c               | ---                    | 10                 | 95.1                | 99.6             | 107.8            |
| Fluorene                     | <0.05  | µg/L  | 0.05             | <0.05  | 08/31/01 | 8270c               | ---                    | 22.5               | 75.6                | 99.7             | 96.2             |
| Indeno[1,2,3-cd]pyrene       | <0.05  | µg/L  | 0.05             | <0.05  | 08/31/01 | 8270c               | ---                    | 14.8               | 93.8                | 92.3             | 110.9            |
| Naphthalene                  | 1.06   | µg/L  | 0.05             | <0.05  | 08/31/01 | 8270c               | ---                    | 26.1               | 42.3                | 99.5             | 86.7             |
| Phenanthrene                 | <0.05  | µg/L  | 0.05             | <0.05  | 08/31/01 | 8270c               | ---                    | 10.9               | 94.7                | 94.6             | 107.8            |

Client: Environmental Tech Group  
Attn: Ken Dutton

Project ID: Darr Angell 4 / EOT 2075C  
Sample Name: MW 8

Report#/Lab ID#: 118664  
Sample Matrix: water

**REPORT OF ANALYSIS-cont.**

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

| Parameter | Result | Units | RQL <sup>5</sup> | Blank | Date     | Method <sup>6</sup> | Data Qual <sup>7</sup> | Prec. <sup>2</sup> | Recov. <sup>3</sup> | CCV <sup>4</sup> | LCS <sup>4</sup> |
|-----------|--------|-------|------------------|-------|----------|---------------------|------------------------|--------------------|---------------------|------------------|------------------|
| Pyrene    | <0.05  | µg/L  | 0.05             | <0.05 | 08/31/01 | 8270c               | ---                    | 14.4               | 91.4                | 97.3             | 107.2            |

**Client:** Environmental Tech Group  
**Attn:** Ken Dutton

**Project ID:** Dart Angell 4 / EOT 2075C  
**Sample Name:** MW 8

**Report#/Lab ID#:** 118664  
**Sample Matrix:** water

**REPORT OF SURROGATE RECOVERY**

| Surrogate Compound                                   | Method | Recovery | Recovery Limit | Data Qualifiers |
|------------------------------------------------------|--------|----------|----------------|-----------------|
| 1,2-Dichloroethane-d4<br>Toluene-d8                  | 8260b  | 106      | 80-120         | ---             |
|                                                      | 8260b  | 97.5     | 88-110         | ---             |
| 2-Fluorobiphenyl<br>Nitrobenzene-d5<br>Terphenyl-d14 | 8270c  | 43.9     | 43-116         | ---             |
|                                                      | 8270c  | 43.6     | 35-114         | ---             |
|                                                      | 8270c  | 46       | 33-141         | ---             |

Data Qualifiers: D= Surrogates diluted and X= Surrogates outside advisory recovery limits.

# Exception Report:

Report #/Lab ID#: 118664    Matrix: water

Client: Environmental Tech Group

Project ID: Dart Angell 4 / EOT 2075C

Sample Name: MW 8

Attn: Ken Dutton

## Sample Temperature/Condition <=6°C

The typical sample temperature criteria (except for metals by ICP, GFAA and AA and a very few other tests) is <= 6°C. Possible exceptions include samples submitted to laboratory within such a short time after sampling that cooling measures used in the field and during transport had insufficient time to achieve desired temperatures in the samples (see sample collection and sample receipt times) and samples where the temperature could not be measured due to sample submission in a manner precluding temperature measurement without impacting sample integrity (ex. in a bottle with no cooler).

## Sample Bottles & Preservation

- ☒ Sample received in appropriate container(s) and appear to be appropriately preserved.
- ☐ Sample received in appropriate container(s). State of sample preservation unknown.
- ☐ Sample received in inappropriate container(s) and/or with unknown state of preservation.

## J flag Discussion

A J flag data qualifier indicates (as required under TNRCC-TRRP reporting requirements) that the raw calculated analyte concentration in the sample (uncorrected for background levels/blanks and other potential sources of sampling and analytical contamination), though less than the Reported Quantitation Limit (RQL) is greater than the Detection Limit. Because the reported result is below the quantitation limit for this project/sample (or test procedure), GC/MS organics results may or MAY NOT have been verified as to the presence and relative ratio of target ions (eg. the material causing the J flag "hit" in such situations may be nothing more than background ion-fragment noise.)

## Comments pertaining to Data Qualifiers and QC data:

| Parameter      | Qualif | Comment                      |
|----------------|--------|------------------------------|
| Iron/ICP       | J      | See J-flag discussion above. |
| Molybdenum/ICP | J      | See J-flag discussion above. |
| Zinc/ICP       | J      | See J-flag discussion above. |

## Notes:

**Client:** Environmental Tech Group  
**Attn:** Ken Dutton  
**Address:** 2540 W. Marland  
Hobbs Nm 88240  
**Phone:** 505 397-4882 **FAX:** 505 397-4701

**Report#**/Lab ID#: 118665 **Report Date:** 09/13/01  
**Project ID:** Darr Angell 4 / EOT 2075C  
**Sample Name:** MW 9  
**Sample Matrix:** water  
**Date Received:** 08/24/2001 **Time:** 12:31  
**Date Sampled:** 08/21/2001 **Time:** 00:00

**REPORT OF ANALYSIS**

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

| Parameter              | Result  | Units    | RQL <sup>5</sup> | Blank   | Date     | Method <sup>6</sup> | Data Qual <sup>7</sup> | Prec. <sup>2</sup> | Recov. <sup>3</sup> | CCV <sup>4</sup> | LCS <sup>4</sup> |
|------------------------|---------|----------|------------------|---------|----------|---------------------|------------------------|--------------------|---------------------|------------------|------------------|
| A/BN extraction-PAH    | ---     | ---      | ---              | ---     | 08/28/01 | 3520                | ---                    | ---                | ---                 | ---              | ---              |
| Hardness               | 790     | mg/L CaC | ---              | ---     | 09/13/01 | SM 2340B            | ---                    | ---                | ---                 | ---              | ---              |
| Metals Dig.-Hg         | ---     | ---      | ---              | ---     | 08/28/01 | 7470&245.1          | ---                    | ---                | ---                 | ---              | ---              |
| Metals Dig.-HNO3       | ---     | ---      | ---              | ---     | 08/28/01 | 3015                | ---                    | ---                | ---                 | ---              | ---              |
| Total dissolved solids | 687     | mg/L     | 1                | <1      | 08/28/01 | 160.1               | ---                    | 1.59               | -NA-                | -NA-             | -NA-             |
| Aluminum/ICP           | <0.2    | mg/L     | 0.2              | <0.2    | 08/31/01 | 6010 & 200.7        | ---                    | 7.92               | 99.77               | 103.31           | 97.92            |
| Arsenic/ICP            | <0.05   | mg/L     | 0.05             | <0.05   | 08/31/01 | 6010 & 200.7        | ---                    | 7.03               | 109.66              | 107.95           | 105.27           |
| Barium/ICP             | 0.112   | mg/L     | 0.01             | <0.01   | 08/31/01 | 6010 & 200.7        | ---                    | 9.31               | 77.99               | 98.25            | 81.08            |
| Boron/ICP              | 0.163   | mg/L     | 0.02             | <0.02   | 08/31/01 | 6010 & 200.7        | ---                    | 6.6                | 102.26              | 108              | 101.23           |
| Cadmium/ICP            | <0.005  | mg/L     | 0.005            | <0.005  | 08/31/01 | 6010 & 200.7        | ---                    | 6.94               | 101.61              | 98               | 99.8             |
| Calcium/ICP            | 293     | mg/L     | 10               | <10     | 09/06/01 | 6010 & 200.7        | ---                    | 5.62               | 109.46              | 103.18           | 105.79           |
| Chromium/ICP           | <0.01   | mg/L     | 0.01             | <0.01   | 08/31/01 | 6010 & 200.7        | ---                    | 7.39               | 103.01              | 97.13            | 101.42           |
| Cobalt/ICP             | <0.02   | mg/L     | 0.02             | <0.02   | 08/31/01 | 6010 & 200.7        | ---                    | 6.84               | 103.77              | 98               | 101.64           |
| Copper/ICP             | <0.02   | mg/L     | 0.02             | <0.02   | 08/31/01 | 6010 & 200.7        | ---                    | 7.93               | 95.54               | 95.75            | 93.87            |
| Iron/ICP               | <0.05   | mg/L     | 0.05             | <0.05   | 08/31/01 | 6010 & 200.7        | J                      | 6.42               | 103.98              | 100.4            | 101.28           |
| Lead/ICP               | <0.02   | mg/L     | 0.02             | <0.02   | 08/31/01 | 6010 & 200.7        | ---                    | 7.38               | 109.25              | 107.75           | 106.49           |
| Magnesium/ICP          | 13.2    | mg/L     | 5                | <5      | 09/06/01 | 6010 & 200.7        | ---                    | 8.86               | 95.93               | 96.65            | 95.41            |
| Manganese/ICP          | 0.067   | mg/L     | 0.01             | <0.01   | 08/31/01 | 6010 & 200.7        | ---                    | 6.84               | 104.96              | 101              | 102.77           |
| Mercury/CVAA           | <0.0002 | mg/L     | 0.0002           | <0.0002 | 08/29/01 | 245.1&7470          | ---                    | 4.44               | 88.89               | 118              | 99.33            |
| Molybdenum/ICP         | <0.02   | mg/L     | 0.02             | <0.02   | 08/31/01 | 6010 & 200.7        | ---                    | 7.8                | 102.24              | 98.75            | 98.09            |
| Nickel/ICP             | <0.02   | mg/L     | 0.02             | <0.02   | 08/31/01 | 6010 & 200.7        | ---                    | 6.88               | 107.29              | 106.75           | 104.36           |

This analytical report is respectfully submitted by AnalySys, Inc. The enclosed results have been carefully reviewed and, to the best of my knowledge, the analytical results are consistent with AnalySys, Inc.'s Quality Assurance/Quality Control Program. © Copyright 2000, AnalySys, Inc., Austin, TX. All rights reserved. No part of this publication may be reproduced or transmitted in any form or by any means without the express written consent of AnalySys, Inc.

Respectfully Submitted,

*Richard Laster*

Richard Laster

1. Quality assurance data is for the sample batch 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 Laboratory Control Sample (LCS) results are expressed as the percent (%) recovery of analyte from a known standard or matrix. 5. Reporting Quantitation Limits (RQL), typically at or above the Practical Quantitation Limit (PQL) of the analytical method. 6. Method numbers typically denote USEPA procedures. Less than (" $<$ ") values reflect nominal quantitation limits adjusted for any required dilutions. 7. Data Qualifiers are J = analyte potentially present between the PQL and the MDL. B = Analyte detected in associated method blank(s). S1 = MS and/or MSD recovery exceed advisory limits. S2 = Post digestion spike (PDS) recovery exceeds advisory limit. S3 = MS and/or MSD and PDS recoveries exceed advisory limits. P = Precision higher than advisory limit. M = Matrix interference.

Client: Environmental Tech Group  
Attn: Ken Dutton

Project ID: Darr Angell 4/EOT 2075C  
Sample Name: MW 9

Report#/Lab ID#: 118665  
Sample Matrix: water

REPORT OF ANALYSIS-cont.

QUALITY ASSURANCE DATA<sup>1</sup>

| Parameter                    | Result | Units | RQL <sup>5</sup> | Blank  | Date     | Method <sup>6</sup> | Data Qual <sup>7</sup> | Prec. <sup>2</sup> | Recov. <sup>3</sup> | CCV <sup>4</sup> | LCS <sup>4</sup> |
|------------------------------|--------|-------|------------------|--------|----------|---------------------|------------------------|--------------------|---------------------|------------------|------------------|
| Potassium/AA                 | 4.33   | mg/L  | 0.5              | <0.5   | 08/30/01 | 258.1&7610          | ---                    | 7.08               | 114.81              | 84.39            | 91.65            |
| Selenium/ICP                 | <0.05  | mg/L  | 0.05             | <0.05  | 08/31/01 | 6010 & 200.7        | ---                    | 7.05               | 106.04              | 104.85           | 102.91           |
| Silver/GFAA                  | <0.002 | mg/L  | 0.002            | <0.002 | 08/29/01 | 272.2&7761          | ---                    | 19.55              | 127.52              | 87.5             | 98               |
| Sodium/ICP                   | 71.7   | mg/L  | 0.5              | <0.5   | 08/31/01 | 6010 & 200.7        | ---                    | 8.14               | 85.76               | 94.5             | 88.69            |
| Zinc/ICP                     | <0.01  | mg/L  | 0.01             | <0.01  | 08/31/01 | 6010 & 200.7        | ---                    | 7.65               | 106.4               | 101.88           | 103.85           |
| Alkalinity, total            | 720    | mg/L  | 20               | <20    | 09/04/01 | 310.1               | ---                    | 0                  | -NA-                | -NA-             | -NA-             |
| Chloride                     | 71.2   | mg/L  | 2.5              | <2.5   | 09/04/01 | 325.2&9251          | ---                    | 0.85               | 110.22              | 109.71           | 96.98            |
| Fluoride                     | 1.9    | mg/L  | 0.05             | <0.05  | 09/05/01 | 340.2               | ---                    | 2.05               | 87.62               | 113.84           | 113.84           |
| Nitrate/Nitrite-N            | 0.369  | mg/L  | 0.01             | <0.01  | 09/07/01 | 353.1               | ---                    | 2.27               | 77.66               | 101.59           | 97.73            |
| Sulfate                      | 118    | mg/L  | 5                | <5     | 08/30/01 | 375.4&9038          | ---                    | 2.6                | 105.48              | 101.98           | 102.95           |
| Extractable organics-PAH     | ---    | ---   | ---              | ---    | 08/31/01 | 8270c               | ---                    | ---                | ---                 | ---              | ---              |
| Volatile organics-8260b/BTEX | ---    | ---   | ---              | ---    | 08/31/01 | 8260b               | ---                    | ---                | ---                 | ---              | ---              |
| Benzene                      | <1     | µg/L  | 1                | <1     | 08/31/01 | 8260b               | ---                    | 2                  | 93.5                | 91.6             | 91               |
| Ethylbenzene                 | <1     | µg/L  | 1                | <1     | 08/31/01 | 8260b               | ---                    | 0.7                | 98.2                | 104.7            | 99.8             |
| m,p-Xylenes                  | <1     | µg/L  | 1                | <1     | 08/31/01 | 8260b               | ---                    | 0.6                | 100.3               | 107.2            | 102.3            |
| o-Xylene                     | <1     | µg/L  | 1                | <1     | 08/31/01 | 8260b               | ---                    | 0.5                | 103                 | 108.3            | 104.2            |
| Toluene                      | <1     | µg/L  | 1                | <1     | 08/31/01 | 8260b               | ---                    | 2.2                | 99.8                | 96.3             | 96.1             |
| Acenaphthene                 | <0.05  | µg/L  | 0.05             | <0.05  | 08/31/01 | 8270c               | ---                    | 24.5               | 64.8                | 97               | 90.9             |
| Acenaphthylene               | <0.05  | µg/L  | 0.05             | <0.05  | 08/31/01 | 8270c               | ---                    | 20.7               | 66.9                | 104.3            | 98.5             |
| Anthracene                   | <0.05  | µg/L  | 0.05             | <0.05  | 08/31/01 | 8270c               | ---                    | 11                 | 89                  | 98.8             | 101.4            |
| Benzo[a]anthracene           | <0.05  | µg/L  | 0.05             | <0.05  | 08/31/01 | 8270c               | ---                    | 14.4               | 92.8                | 91.3             | 109.4            |
| Benzo[a]pyrene               | <0.05  | µg/L  | 0.05             | <0.05  | 08/31/01 | 8270c               | ---                    | 12.8               | 90                  | 96               | 104.1            |
| Benzo[b]fluoranthene         | <0.05  | µg/L  | 0.05             | <0.05  | 08/31/01 | 8270c               | ---                    | 16.2               | 91.8                | 89.5             | 108              |
| Benzo[g,h,i]perylene         | <0.05  | µg/L  | 0.05             | <0.05  | 08/31/01 | 8270c               | ---                    | 14.3               | 95.4                | 93.7             | 112.3            |
| Benzo[k]fluoranthene         | <0.05  | µg/L  | 0.05             | <0.05  | 08/31/01 | 8270c               | ---                    | 17.8               | 88.1                | 99.3             | 101.6            |
| Chrysene                     | <0.05  | µg/L  | 0.05             | <0.05  | 08/31/01 | 8270c               | ---                    | 14.6               | 95.2                | 100.5            | 111.6            |
| Dibenz[a,h]anthracene        | <0.05  | µg/L  | 0.05             | <0.05  | 08/31/01 | 8270c               | ---                    | 14.9               | 96.8                | 91.7             | 108              |
| Fluoranthene                 | <0.05  | µg/L  | 0.05             | <0.05  | 08/31/01 | 8270c               | ---                    | 10                 | 95.1                | 99.6             | 107.8            |
| Fluorene                     | <0.05  | µg/L  | 0.05             | <0.05  | 08/31/01 | 8270c               | ---                    | 22.5               | 75.6                | 99.7             | 96.2             |
| Indeno[1,2,3-cd]pyrene       | <0.05  | µg/L  | 0.05             | <0.05  | 08/31/01 | 8270c               | ---                    | 14.8               | 93.8                | 92.3             | 110.9            |
| Naphthalene                  | <0.05  | µg/L  | 0.05             | <0.05  | 08/31/01 | 8270c               | ---                    | 26.1               | 42.3                | 99.5             | 86.7             |
| Phenanthrene                 | <0.05  | µg/L  | 0.05             | <0.05  | 08/31/01 | 8270c               | ---                    | 10.9               | 94.7                | 94.6             | 107.8            |

Client: Environmental Tech Group  
Attn: Ken Dutton

Project ID: Darr Angell 4 / EOT 2075C  
Sample Name: MW 9

Report#/Lab ID#: 118665  
Sample Matrix: water

**REPORT OF ANALYSIS-cont.**

**QUALITY ASSURANCE DATA 1**

| Parameter | Result | Units | RQL <sup>5</sup> | Blank | Date     | Method <sup>6</sup> | Data Qual <sup>7</sup> | Prec. <sup>2</sup> | Recov. <sup>3</sup> | CCV <sup>4</sup> | LCS <sup>4</sup> |
|-----------|--------|-------|------------------|-------|----------|---------------------|------------------------|--------------------|---------------------|------------------|------------------|
| Pyrene    | <0.05  | µg/L  | 0.05             | <0.05 | 08/31/01 | 8270c               | ---                    | 14.4               | 91.4                | 97.3             | 107.2            |



Client: Environmental Tech Group  
Attn: Ken Dutton

Project ID: Darr Angell 4 / EOT 2075C  
Sample Name: MW 9

Report#/Lab ID#: 118665  
Sample Matrix: water

**REPORT OF SURROGATE RECOVERY**

| Surrogate Compound                                   | Method | Recovery | Recovery Limit | Data Qualifiers |
|------------------------------------------------------|--------|----------|----------------|-----------------|
| 1,2-Dichloroethane-d4<br>Toluene-d8                  | 8260b  | 113      | 80-120         | ---             |
|                                                      | 8260b  | 100      | 88-110         | ---             |
| 2-Fluorobiphenyl<br>Nitrobenzene-d5<br>Terphenyl-d14 | 8270c  | 51.5     | 43-116         | ---             |
|                                                      | 8270c  | 88.3     | 35-114         | ---             |
|                                                      | 8270c  | 69.8     | 33-141         | ---             |

Data Qualifiers: D= Surrogates diluted and X= Surrogates outside advisory recovery limits.

## Exception Report:

Report #/Lab ID#: 118665 Matrix: water  
Client: Environmental Tech Group Attn: Ken Dutton  
Project ID: Darr Angell 4 / EOT 2075C  
Sample Name: MW 9

### Sample Temperature/Condition $\leq 6^{\circ}\text{C}$

The typical sample temperature criteria (except for metals by ICP, GFAA and AA and a very few other tests) is  $\leq 6^{\circ}\text{C}$ . Possible exceptions include samples submitted to laboratory within such a short time after sampling that cooling measures used in the field and during transport had insufficient time to achieve desired temperatures in the samples (see sample collection and sample receipt times) and samples where the temperature could not be measured due to sample submission in a manner precluding temperature measurement without impacting sample integrity (ex. in a bottle with no cooler).

### Sample Bottles & Preservation

- ☒ Sample received in appropriate container(s) and appear to be appropriately preserved.
- ☐ Sample received in appropriate container(s). State of sample preservation unknown.
- ☐ Sample received in inappropriate container(s) and/or with unknown state of preservation.

### J flag Discussion

A J flag data qualifier indicates (as required under TNRCC-TRRP reporting requirements) that the raw calculated analyte concentration in the sample (uncorrected for background levels/blanks and other potential sources of sampling and analytical contamination), though less than the Reported Quantitation Limit (RQL) is greater than the Detection Limit. Because the reported result is below the quantitation limit for this project/sample (or test procedure), GC/MS organics results may or MAY NOT have been verified as to the presence and relative ratio of target ions (eg. the material causing the J flag "hit" in such situations may be nothing more than background ion-fragment noise.)

### Comments pertaining to Data Qualifiers and QC data:

| Parameter | Qualif | Comment                      |
|-----------|--------|------------------------------|
| Iron/ICP  | J      | See J-flag discussion above. |

Notes:

**Client:** Environmental Tech Group  
**Attn:** Ken Dutton  
**Address:** 2540 W. Marland  
Hobbs Nm 88240  
**Phone:** 505 397-4882 **FAX:** 505 397-4701

**Report#/Lab ID#:** 118666 **Report Date:** 09/13/01  
**Project ID:** Darr Angell 4 / EOT 2075C  
**Sample Name:** MW 10  
**Sample Matrix:** water  
**Date Received:** 08/24/2001 **Time:** 12:31  
**Date Sampled:** 08/21/2001 **Time:** 00:00

**REPORT OF ANALYSIS**

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

| Parameter              | Result  | Units    | RQL <sup>5</sup> | Blank   | Date     | Method <sup>6</sup> | Data Qual <sup>7</sup> | Prec. <sup>2</sup> | Recov. <sup>3</sup> | CCV <sup>4</sup> | LCS <sup>4</sup> |
|------------------------|---------|----------|------------------|---------|----------|---------------------|------------------------|--------------------|---------------------|------------------|------------------|
| A/BN extraction-PAH    | ---     | ---      | ---              | ---     | 08/28/01 | 3520                | ---                    | ---                | ---                 | ---              | ---              |
| Hardness               | 1300    | mg/L CaC | ---              | ---     | 09/13/01 | SM 2340B            | ---                    | ---                | ---                 | ---              | ---              |
| Metals Dig.-Hg         | ---     | ---      | ---              | ---     | 09/13/01 | 7470&245.1          | ---                    | ---                | ---                 | ---              | ---              |
| Metals Dig.-HNO3       | ---     | ---      | ---              | ---     | 08/28/01 | 3015                | ---                    | ---                | ---                 | ---              | ---              |
| Total dissolved solids | 551     | mg/L     | 1                | <1      | 08/28/01 | 160.1               | ---                    | 1.59               | -NA-                | -NA-             | -NA-             |
| Aluminum/ICP           | <0.2    | mg/L     | 0.2              | <0.2    | 08/31/01 | 6010 & 200.7        | ---                    | 7.92               | 99.77               | 103.31           | 97.92            |
| Arsenic/ICP            | <0.05   | mg/L     | 0.05             | <0.05   | 08/31/01 | 6010 & 200.7        | ---                    | 7.03               | 109.66              | 107.95           | 105.27           |
| Barium/ICP             | 0.125   | mg/L     | 0.01             | <0.01   | 08/31/01 | 6010 & 200.7        | ---                    | 9.31               | 77.99               | 98.25            | 81.08            |
| Boron/ICP              | 0.183   | mg/L     | 0.02             | <0.02   | 08/31/01 | 6010 & 200.7        | ---                    | 6.6                | 102.26              | 108              | 101.23           |
| Cadmium/ICP            | <0.005  | mg/L     | 0.005            | <0.005  | 08/31/01 | 6010 & 200.7        | ---                    | 6.94               | 101.61              | 98               | 99.8             |
| Calcium/ICP            | 512     | mg/L     | 10               | <10     | 09/06/01 | 6010 & 200.7        | ---                    | 5.62               | 109.46              | 103.18           | 105.79           |
| Chromium/ICP           | <0.01   | mg/L     | 0.01             | <0.01   | 08/31/01 | 6010 & 200.7        | ---                    | 7.39               | 103.01              | 97.13            | 101.42           |
| Cobalt/ICP             | <0.02   | mg/L     | 0.02             | <0.02   | 08/31/01 | 6010 & 200.7        | ---                    | 6.84               | 103.77              | 98               | 101.64           |
| Copper/ICP             | <0.02   | mg/L     | 0.02             | <0.02   | 08/31/01 | 6010 & 200.7        | ---                    | 7.93               | 95.54               | 95.75            | 93.87            |
| Iron/ICP               | <0.05   | mg/L     | 0.05             | <0.05   | 08/31/01 | 6010 & 200.7        | J                      | 6.42               | 103.98              | 100.4            | 101.28           |
| Lead/ICP               | <0.02   | mg/L     | 0.02             | <0.02   | 08/31/01 | 6010 & 200.7        | ---                    | 7.38               | 109.25              | 107.75           | 106.49           |
| Magnesium/ICP          | 11      | mg/L     | 5                | <5      | 09/06/01 | 6010 & 200.7        | ---                    | 8.86               | 95.93               | 96.65            | 95.41            |
| Manganese/ICP          | 0.123   | mg/L     | 0.01             | <0.01   | 08/31/01 | 6010 & 200.7        | ---                    | 6.84               | 104.96              | 101              | 102.77           |
| Mercury/CVAA           | <0.0002 | mg/L     | 0.0002           | <0.0002 | 09/13/01 | 245.1&7470          | ---                    | 4.44               | 88.89               | 118              | 99.33            |
| Molybdenum/ICP         | <0.02   | mg/L     | 0.02             | <0.02   | 08/31/01 | 6010 & 200.7        | J                      | 7.8                | 102.24              | 98.75            | 98.09            |
| Nickel/ICP             | <0.02   | mg/L     | 0.02             | <0.02   | 08/31/01 | 6010 & 200.7        | J                      | 6.88               | 107.29              | 106.75           | 104.36           |

This analytical report is respectfully submitted by AnalySys, Inc. The enclosed results have been carefully reviewed and, to the best of my knowledge, the analytical results are consistent with AnalySys, Inc.'s Quality Assurance/Quality Control Program. © Copyright 2000, AnalySys, Inc., Austin, TX. All rights reserved. No part of this publication may be reproduced or transmitted in any form or by any means without the express written consent of AnalySys, Inc.

Respectfully Submitted,

*Richard Laster*

Richard Laster

1. Quality assurance data is for the sample batch 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 Laboratory Control Sample (LCS) results are expressed as the percent (%) recovery of analyte from a known standard or matrix. 5. Reporting Quantitation Limits (RQL), typically at or above the Practical Quantitation Limit (PQL) of the analytical method. 6. Method numbers typically denote USEPA procedures. Less than (" $<$ ") values reflect nominal quantitation limits adjusted for any required dilutions. 7. Data Qualifiers are J = analyte potentially present between the PQL and the MDL. B = Analyte detected in associated method blank(s). S1 = MS and/or MSD recovery exceed advisory limits. S2 = Post digestion spike (PDS) recovery exceeds advisory limit. S3 = MS and/or MSD and PDS recoveries exceed advisory limits. P = Precision higher than advisory limit. M = Matrix interference.

**Client:** Environmental Tech Group  
**Attn:** Ken Dutton

**Project ID:** Darr Angell 4 / EOT 2075C  
**Sample Name:** MW 10

**Report#/Lab ID#:** 118666  
**Sample Matrix:** water

**REPORT OF ANALYSIS-cont.**

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

| Parameter                    | Result | Units | RQL <sup>5</sup> | Blank  | Date     | Method <sup>6</sup> | Data Qual <sup>7</sup> | Prec. <sup>2</sup> | Recov. <sup>3</sup> | CCV <sup>4</sup> | LCS <sup>4</sup> |
|------------------------------|--------|-------|------------------|--------|----------|---------------------|------------------------|--------------------|---------------------|------------------|------------------|
| Potassium/AA                 | 3.77   | mg/L  | 0.5              | <0.5   | 08/30/01 | 258.1&7610          | ---                    | 7.08               | 114.81              | 84.39            | 91.65            |
| Selenium/ICP                 | <0.05  | mg/L  | 0.05             | <0.05  | 08/31/01 | 6010 & 200.7        | ---                    | 7.05               | 106.04              | 104.85           | 102.91           |
| Silver/GFAA                  | <0.002 | mg/L  | 0.002            | <0.002 | 08/29/01 | 272.2&7761          | ---                    | 19.55              | 127.52              | 87.5             | 98               |
| Sodium/ICP                   | 46.7   | mg/L  | 0.5              | <0.5   | 08/31/01 | 6010 & 200.7        | ---                    | 8.14               | 85.76               | 94.5             | 88.69            |
| Zinc/ICP                     | 0.0102 | mg/L  | 0.01             | <0.01  | 08/31/01 | 6010 & 200.7        | ---                    | 7.65               | 106.4               | 101.88           | 103.85           |
| Alkalinity, total            | 600    | mg/L  | 20               | <20    | 09/04/01 | 310.1               | ---                    | 0                  | -NA-                | -NA-             | -NA-             |
| Chloride                     | 59.6   | mg/L  | 2.5              | <2.5   | 09/04/01 | 325.2&9251          | ---                    | 0.85               | 110.22              | 109.71           | 96.98            |
| Fluoride                     | 2.6    | mg/L  | 0.05             | <0.05  | 09/05/01 | 340.2               | ---                    | 2.05               | 87.62               | 113.84           | 113.84           |
| Nitrate/Nitrite-N            | 0.0204 | mg/L  | 0.01             | <0.01  | 09/07/01 | 353.1               | ---                    | 2.27               | 77.66               | 101.59           | 97.73            |
| Sulfate                      | 114    | mg/L  | 5                | <5     | 08/30/01 | 375.4&9038          | ---                    | 2.6                | 105.48              | 101.98           | 102.95           |
| Extractable organics-PAH     | ---    | ---   | ---              | ---    | 08/31/01 | 8270c               | ---                    | ---                | ---                 | ---              | ---              |
| Volatile organics-8260b/BTEX | ---    | ---   | ---              | ---    | 08/31/01 | 8260b               | ---                    | ---                | ---                 | ---              | ---              |
| Benzene                      | 360    | µg/L  | 1                | <1     | 08/31/01 | 8260b               | ---                    | 2                  | 93.5                | 91.6             | 91               |
| Ethylbenzene                 | <1     | µg/L  | 1                | <1     | 08/31/01 | 8260b               | J                      | 0.7                | 98.2                | 104.7            | 99.8             |
| m,p-Xylenes                  | 22     | µg/L  | 1                | <1     | 08/31/01 | 8260b               | ---                    | 0.6                | 100.3               | 107.2            | 102.3            |
| o-Xylene                     | <1     | µg/L  | 1                | <1     | 08/31/01 | 8260b               | ---                    | 0.5                | 103                 | 108.3            | 104.2            |
| Toluene                      | <1     | µg/L  | 1                | <1     | 08/31/01 | 8260b               | ---                    | 2.2                | 99.8                | 96.3             | 96.1             |
| Acenaphthene                 | <0.05  | µg/L  | 0.05             | <0.05  | 08/31/01 | 8270c               | ---                    | 24.5               | 64.8                | 97               | 90.9             |
| Acenaphthylene               | <0.05  | µg/L  | 0.05             | <0.05  | 08/31/01 | 8270c               | ---                    | 20.7               | 66.9                | 104.3            | 98.5             |
| Anthracene                   | <0.05  | µg/L  | 0.05             | <0.05  | 08/31/01 | 8270c               | ---                    | 11                 | 89                  | 98.8             | 101.4            |
| Benzofluranthene             | <0.05  | µg/L  | 0.05             | <0.05  | 08/31/01 | 8270c               | ---                    | 14.4               | 92.8                | 91.3             | 109.4            |
| Benzofluranthene             | <0.05  | µg/L  | 0.05             | <0.05  | 08/31/01 | 8270c               | ---                    | 12.8               | 90                  | 96               | 104.1            |
| Benzofluranthene             | <0.05  | µg/L  | 0.05             | <0.05  | 08/31/01 | 8270c               | ---                    | 16.2               | 91.8                | 89.5             | 108              |
| Benzofluranthene             | <0.05  | µg/L  | 0.05             | <0.05  | 08/31/01 | 8270c               | ---                    | 14.3               | 95.4                | 93.7             | 112.3            |
| Benzofluranthene             | <0.05  | µg/L  | 0.05             | <0.05  | 08/31/01 | 8270c               | ---                    | 17.8               | 88.1                | 99.3             | 101.6            |
| Benzofluranthene             | <0.05  | µg/L  | 0.05             | <0.05  | 08/31/01 | 8270c               | ---                    | 14.6               | 95.2                | 100.5            | 111.6            |
| Chrysene                     | <0.05  | µg/L  | 0.05             | <0.05  | 08/31/01 | 8270c               | ---                    | 14.9               | 96.8                | 91.7             | 108              |
| Dibenz[a,h]anthracene        | <0.05  | µg/L  | 0.05             | <0.05  | 08/31/01 | 8270c               | ---                    | 10                 | 95.1                | 99.6             | 107.8            |
| Fluoranthene                 | <0.05  | µg/L  | 0.05             | <0.05  | 08/31/01 | 8270c               | ---                    | 22.5               | 75.6                | 99.7             | 96.2             |
| Fluorene                     | <0.05  | µg/L  | 0.05             | <0.05  | 08/31/01 | 8270c               | ---                    | 14.8               | 93.8                | 92.3             | 110.9            |
| Indeno[1,2,3-cd]pyrene       | <0.05  | µg/L  | 0.05             | <0.05  | 08/31/01 | 8270c               | ---                    | 26.1               | 42.3                | 99.5             | 86.7             |
| Naphthalene                  | <0.05  | µg/L  | 0.05             | <0.05  | 08/31/01 | 8270c               | ---                    | 10.9               | 94.7                | 94.6             | 107.8            |
| Phenanthrene                 | <0.05  | µg/L  | 0.05             | <0.05  | 08/31/01 | 8270c               | ---                    | ---                | ---                 | ---              | ---              |

**Client:** Environmental Tech Group  
**Attn:** Ken Dutton

**Project ID:** Darr Angell 4/EOT 2075C  
**Sample Name:** MW 10

**Report#/Lab ID#:** 118666  
**Sample Matrix:** water

**REPORT OF ANALYSIS-cont.**

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

| Parameter | Result | Units | RQL <sup>5</sup> | Blank | Date     | Method <sup>6</sup> | Data Qual <sup>7</sup> | Prec. <sup>2</sup> | Recov. <sup>3</sup> | CCV <sup>4</sup> | LCS <sup>4</sup> |
|-----------|--------|-------|------------------|-------|----------|---------------------|------------------------|--------------------|---------------------|------------------|------------------|
| Pyrene    | <0.05  | µg/L  | 0.05             | <0.05 | 08/31/01 | 8270c               | ---                    | 14.4               | 91.4                | 97.3             | 107.2            |



|                                  |                                       |                         |
|----------------------------------|---------------------------------------|-------------------------|
| Client: Environmental Tech Group | Project ID: Darr Angell 4 / EOT 2075C | Report#/Lab ID#: 118666 |
| Attn: Ken Dutton                 | Sample Name: MW 10                    | Sample Matrix: water    |

REPORT OF SURROGATE RECOVERY

| Surrogate Compound                                   | Method | Recovery | Recovery Limit | Data Qualifiers |
|------------------------------------------------------|--------|----------|----------------|-----------------|
| 1,2-Dichloroethane-d4<br>Toluene-d8                  | 8260b  | 105      | 80-120         | ---             |
|                                                      | 8260b  | 98.5     | 88-110         | ---             |
| 2-Fluorobiphenyl<br>Nitrobenzene-d5<br>Terphenyl-d14 | 8270c  | 43       | 43-116         | ---             |
|                                                      | 8270c  | 42.1     | 35-114         | ---             |
|                                                      | 8270c  | 45.7     | 33-141         | ---             |

Data Qualifiers: D= Surrogates diluted and X= Surrogates outside advisory recovery limits.

# Exception Report:

Report #/Lab ID#: 118666 Matrix: water  
Client: Environmental Tech Group  
Project ID: Darr Angell 4 / EOT 2075C  
Sample Name: MW 10  
Attn: Ken Dutton

## Sample Temperature/Condition <=6°C

The typical sample temperature criteria (except for metals by ICP, GFAA and AA and a very few other tests) is <= 6°C. Possible exceptions include samples submitted to laboratory within such a short time after sampling that cooling measures used in the field and during transport had insufficient time to achieve desired temperatures in the samples (see sample collection and sample receipt times) and samples where the temperature could not be measured due to sample submission in a manner precluding temperature measurement without impacting sample integrity (ex. in a bottle with no cooler).

## Sample Bottles & Preservation

- ☒ Sample received in appropriate container(s) and appear to be appropriately preserved.
- ☐ Sample received in appropriate container(s). State of sample preservation unknown.
- ☐ Sample received in inappropriate container(s) and/or with unknown state of preservation.

## J flag Discussion

A J flag data qualifier indicates (as required under TNRCC-TRRP reporting requirements) that the raw calculated analyte concentration in the sample (uncorrected for background levels/blanks and other potential sources of sampling and analytical contamination), though less than the Reported Quantitation Limit (RQL) is greater than the Detection Limit. Because the reported result is below the quantitation limit for this project/sample (or test procedure), GC/MS organics results may or MAY NOT have been verified as to the presence and relative ratio of target ions (eg. the material causing the J flag "hit" in such situations may be nothing more than background ion-fragment noise.)

## Comments pertaining to Data Qualifiers and QC data:

| Parameter      | Qualif | Comment                      |
|----------------|--------|------------------------------|
| Iron/ICP       | J      | See J-flag discussion above. |
| Molybdenum/ICP | J      | See J-flag discussion above. |
| Nickel/ICP     | J      | See J-flag discussion above. |
| Ethylbenzene   | J      | See J-flag discussion above. |

## Notes:

**Client:** Environmental Tech Group

**Attn:** Ken Dutton

**Address:** 2540 W. Marland  
Hobbs

Nm 88240

**Phone:** 505 397-4882 **FAX:** 505 397-4701

**Report#/Lab ID#:** 118667 **Report Date:** 09/13/01

**Project ID:** Dart Angell 4 / EOT 2075C

**Sample Name:** MW 11

**Sample Matrix:** water

**Date Received:** 08/24/2001 **Time:** 12:31

**Date Sampled:** 08/21/2001 **Time:** 00:00

**REPORT OF ANALYSIS**

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

| Parameter              | Result  | Units    | RQL <sup>5</sup> | Blank   | Date     | Method <sup>6</sup> | Data Qual <sup>7</sup> | Prec. <sup>2</sup> | Recov. <sup>3</sup> | CCV <sup>4</sup> | LCS <sup>4</sup> |
|------------------------|---------|----------|------------------|---------|----------|---------------------|------------------------|--------------------|---------------------|------------------|------------------|
| A/BN extraction-PAH    |         |          |                  |         |          | 3520                |                        |                    |                     |                  |                  |
| Hardness               | 1400    | mg/L CaC | ---              | ---     | 08/28/01 | SM 2340B            | ---                    | ---                | ---                 | ---              | ---              |
| Metals Dig.-Hg         | ---     | ---      | ---              | ---     | 09/13/01 | 7470&245.1          | ---                    | ---                | ---                 | ---              | ---              |
| Metals Dig.-HNO3       | ---     | ---      | ---              | ---     | 08/29/01 | 3015                | ---                    | ---                | ---                 | ---              | ---              |
| Total dissolved solids | 478     | mg/L     | 1                | <1      | 08/28/01 | 160.1               | ---                    | 1.59               | -NA-                | -NA-             | -NA-             |
| Aluminum/ICP           | 0.485   | mg/L     | 0.2              | <0.2    | 08/31/01 | 6010 & 200.7        | ---                    | 7.92               | 99.77               | 103.31           | 97.92            |
| Arsenic/ICP            | <0.05   | mg/L     | 0.05             | <0.05   | 08/31/01 | 6010 & 200.7        | ---                    | 7.03               | 109.66              | 107.95           | 105.27           |
| Barium/ICP             | 0.0939  | mg/L     | 0.01             | <0.01   | 08/31/01 | 6010 & 200.7        | ---                    | 9.31               | 77.99               | 98.25            | 81.08            |
| Boron/ICP              | 0.145   | mg/L     | 0.02             | <0.02   | 08/31/01 | 6010 & 200.7        | ---                    | 6.6                | 102.26              | 108              | 101.23           |
| Cadmium/ICP            | <0.005  | mg/L     | 0.005            | <0.005  | 08/31/01 | 6010 & 200.7        | ---                    | 6.94               | 101.61              | 98               | 99.8             |
| Calcium/ICP            | 554     | mg/L     | 10               | <10     | 09/06/01 | 6010 & 200.7        | ---                    | 5.62               | 109.46              | 103.18           | 105.79           |
| Chromium/ICP           | <0.01   | mg/L     | 0.01             | <0.01   | 08/31/01 | 6010 & 200.7        | ---                    | 7.39               | 103.01              | 97.13            | 101.42           |
| Cobalt/ICP             | <0.02   | mg/L     | 0.02             | <0.02   | 08/31/01 | 6010 & 200.7        | ---                    | 6.84               | 103.77              | 98               | 101.64           |
| Copper/ICP             | <0.02   | mg/L     | 0.02             | <0.02   | 08/31/01 | 6010 & 200.7        | ---                    | 7.93               | 95.54               | 95.75            | 93.87            |
| Iron/ICP               | 0.148   | mg/L     | 0.05             | <0.05   | 08/31/01 | 6010 & 200.7        | ---                    | 6.42               | 103.98              | 100.4            | 101.28           |
| Lead/ICP               | <0.02   | mg/L     | 0.02             | <0.02   | 08/31/01 | 6010 & 200.7        | ---                    | 7.38               | 109.25              | 107.75           | 106.49           |
| Magnesium/ICP          | 10.6    | mg/L     | 0.05             | <0.05   | 08/31/01 | 6010 & 200.7        | ---                    | 8.86               | 95.93               | 96.65            | 95.41            |
| Manganese/ICP          | 0.122   | mg/L     | 0.01             | <0.01   | 08/31/01 | 6010 & 200.7        | ---                    | 6.84               | 104.96              | 101              | 102.77           |
| Mercury/CV/AA          | <0.0002 | mg/L     | 0.0002           | <0.0002 | 08/30/01 | 245.1&7470          | ---                    | 5.56               | 70.71               | 88               | 118.67           |
| Molybdenum/ICP         | <0.02   | mg/L     | 0.02             | <0.02   | 08/31/01 | 6010 & 200.7        | ---                    | 7.8                | 102.24              | 98.75            | 98.09            |
| Nickel/ICP             | <0.02   | mg/L     | 0.02             | <0.02   | 08/31/01 | 6010 & 200.7        | J                      | 6.88               | 107.29              | 106.75           | 104.36           |

This analytical report is respectfully submitted by AnalySys, Inc. The enclosed results have been carefully reviewed and, to the best of my knowledge, the analytical results are consistent with AnalySys, Inc.'s Quality Assurance/Quality Control Program. © Copyright 2000, AnalySys, Inc., Austin, TX. All rights reserved. No part of this publication may be reproduced or transmitted in any form or by any means without the express written consent of AnalySys, Inc.

Respectfully Submitted,

*Richard Laster*

Richard Laster

1. Quality assurance data is for the sample batch 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 Laboratory Control Sample (LCS) results are expressed as the percent (%) recovery of analyte from a known standard or matrix. 5. Reporting Quantitation Limits (RQL), typically at or above the Practical Quantitation Limit (PQL) of the analytical method. 6. Method numbers typically denote USEPA procedures. Less than (" $<$ ") values reflect nominal quantitation limits adjusted for any required dilutions. 7. Data Qualifiers are J = analyte potentially present between the PQL and the MDL, B = Analyte detected in associated method blank(s). S1 = MS and/or MSD recovery exceed advisory limits. S2 = Post digestion spike (PDS) recovery exceeds advisory limit. S3 = MS and/or MSD and PDS recoveries exceed advisory limits. P = Precision higher than advisory limit. M = Matrix interference.



Client: Environmental Tech Group  
Attn: Ken Dutton

Project ID: Darr Angell 4 / EOT 2075C  
Sample Name: MW 11

Report#/Lab ID#: 118667  
Sample Matrix: water

REPORT OF ANALYSIS-cont.

QUALITY ASSURANCE DATA<sup>1</sup>

| Parameter                    | Result | Units | RQL <sup>5</sup> | Blank  | Date     | Method <sup>6</sup> | Data Qual <sup>7</sup> | Prec. <sup>2</sup> | Recov. <sup>3</sup> | CCV <sup>4</sup> | LCS <sup>4</sup> |
|------------------------------|--------|-------|------------------|--------|----------|---------------------|------------------------|--------------------|---------------------|------------------|------------------|
| Potassium/AA                 | 3.73   | mg/L  | 0.5              | <0.5   | 08/30/01 | 258.1&7610          | ---                    | 7.08               | 114.81              | 84.39            | 91.65            |
| Selenium/ICP                 | <0.05  | mg/L  | 0.05             | <0.05  | 08/31/01 | 6010 & 200.7        | ---                    | 7.05               | 106.04              | 104.85           | 102.91           |
| Silver/GFAA                  | <0.002 | mg/L  | 0.002            | <0.002 | 09/05/01 | 272.2&7761          | ---                    | 7.35               | 116.51              | 87.5             | 103              |
| Sodium/ICP                   | 42.3   | mg/L  | 0.5              | <0.5   | 08/31/01 | 6010 & 200.7        | ---                    | 8.14               | 85.76               | 94.5             | 88.69            |
| Zinc/ICP                     | 0.0233 | mg/L  | 0.01             | <0.01  | 08/31/01 | 6010 & 200.7        | ---                    | 7.65               | 106.4               | 101.88           | 103.85           |
| Alkalinity, total            | 520    | mg/L  | 20               | <20    | 09/04/01 | 310.1               | ---                    | 0                  | -NA-                | -NA-             | -NA-             |
| Chloride                     | 57.1   | mg/L  | 2.5              | <2.5   | 09/04/01 | 325.2&9251          | ---                    | 0.85               | 110.22              | 109.71           | 96.98            |
| Fluoride                     | 2.8    | mg/L  | 0.05             | <0.05  | 09/05/01 | 340.2               | ---                    | 2.05               | 87.62               | 113.84           | 113.84           |
| Nitrate/Nitrite-N            | 0.742  | mg/L  | 0.01             | <0.01  | 09/07/01 | 353.1               | ---                    | 2.27               | 77.66               | 101.59           | 97.73            |
| Sulfate                      | 109    | mg/L  | 5                | <5     | 08/30/01 | 375.4&9038          | ---                    | 2.6                | 105.48              | 101.98           | 102.95           |
| Extractable organics-PAH     | ---    | ---   | ---              | ---    | 09/06/01 | 8270c               | ---                    | ---                | ---                 | ---              | ---              |
| Volatile organics-8260b/BTEX | ---    | ---   | ---              | ---    | 08/31/01 | 8260b               | ---                    | ---                | ---                 | ---              | ---              |
| Benzene                      | 3.27   | µg/L  | 1                | <1     | 08/31/01 | 8260b               | ---                    | 2                  | 93.5                | 91.6             | 91               |
| Ethylbenzene                 | <1     | µg/L  | 1                | <1     | 08/31/01 | 8260b               | ---                    | 0.7                | 98.2                | 104.7            | 99.8             |
| m,p-Xylenes                  | <1     | µg/L  | 1                | <1     | 08/31/01 | 8260b               | ---                    | 0.6                | 100.3               | 107.2            | 102.3            |
| o-Xylene                     | <1     | µg/L  | 1                | <1     | 08/31/01 | 8260b               | ---                    | 0.5                | 103                 | 108.3            | 104.2            |
| Toluene                      | <1     | µg/L  | 1                | <1     | 08/31/01 | 8260b               | ---                    | 2.2                | 99.8                | 96.3             | 96.1             |
| Acenaphthene                 | <0.05  | µg/L  | 0.05             | <0.05  | 09/06/01 | 8270c               | ---                    | 24.5               | 64.8                | 97               | 90.9             |
| Acenaphthylene               | <0.05  | µg/L  | 0.05             | <0.05  | 09/06/01 | 8270c               | ---                    | 20.7               | 66.9                | 104.3            | 98.5             |
| Anthracene                   | <0.05  | µg/L  | 0.05             | <0.05  | 09/06/01 | 8270c               | ---                    | 11                 | 89                  | 98.8             | 101.4            |
| Benzofluoranthene            | <0.05  | µg/L  | 0.05             | <0.05  | 09/06/01 | 8270c               | J                      | 14.4               | 92.8                | 91.3             | 109.4            |
| Benzofluoranthene            | <0.05  | µg/L  | 0.05             | <0.05  | 09/06/01 | 8270c               | ---                    | 12.8               | 90                  | 96               | 104.1            |
| Benzofluoranthene            | <0.05  | µg/L  | 0.05             | <0.05  | 09/06/01 | 8270c               | ---                    | 16.2               | 91.8                | 89.5             | 108              |
| Benzofluoranthene            | <0.05  | µg/L  | 0.05             | <0.05  | 09/06/01 | 8270c               | ---                    | 14.3               | 95.4                | 93.7             | 112.3            |
| Benzofluoranthene            | <0.05  | µg/L  | 0.05             | <0.05  | 09/06/01 | 8270c               | ---                    | 17.8               | 88.1                | 99.3             | 101.6            |
| Benzofluoranthene            | <0.05  | µg/L  | 0.05             | <0.05  | 09/06/01 | 8270c               | ---                    | 14.6               | 95.2                | 100.5            | 111.6            |
| Chrysene                     | <0.05  | µg/L  | 0.05             | <0.05  | 09/06/01 | 8270c               | ---                    | 14.9               | 96.8                | 91.7             | 108              |
| Dibenzofluoranthene          | <0.05  | µg/L  | 0.05             | <0.05  | 09/06/01 | 8270c               | ---                    | 10                 | 95.1                | 99.6             | 107.8            |
| Fluorene                     | <0.05  | µg/L  | 0.05             | <0.05  | 09/06/01 | 8270c               | ---                    | 22.5               | 75.6                | 99.7             | 96.2             |
| Indeno[1,2,3-cd]pyrene       | <0.05  | µg/L  | 0.05             | <0.05  | 09/06/01 | 8270c               | ---                    | 14.8               | 93.8                | 92.3             | 110.9            |
| Naphthalene                  | <0.05  | µg/L  | 0.05             | <0.05  | 09/06/01 | 8270c               | ---                    | 26.1               | 42.3                | 99.5             | 86.7             |
| Phenanthrene                 | <0.05  | µg/L  | 0.05             | <0.05  | 09/06/01 | 8270c               | ---                    | 10.9               | 94.7                | 94.6             | 107.8            |

|                                  |                                       |
|----------------------------------|---------------------------------------|
| Client: Environmental Tech Group | Project ID: Darr Angell 4 / EOT 2075C |
| Attn: Ken Dutton                 | Sample Name: MW 11                    |

|                         |
|-------------------------|
| Report#/Lab ID#: 118667 |
| Sample Matrix: water    |

REPORT OF ANALYSIS-cont.

QUALITY ASSURANCE DATA<sup>1</sup>

| Parameter | Result | Units | RQL <sup>5</sup> | Blank | Date     | Method <sup>6</sup> | Data Qual <sup>7</sup> | Prec. <sup>2</sup> | Recov. <sup>3</sup> | CCV <sup>4</sup> | LCS <sup>4</sup> |
|-----------|--------|-------|------------------|-------|----------|---------------------|------------------------|--------------------|---------------------|------------------|------------------|
| Pyrene    | <0.05  | µg/L  | 0.05             | <0.05 | 09/06/01 | 8270c               | J                      | 14.4               | 91.4                | 97.3             | 107.2            |

**Client:** Environmental Tech Group  
**Attn:** Ken Dutton

**Project ID:** Darr Angell 4 / EOT 2075C  
**Sample Name:** MW 11

**Report#/Lab ID#:** 118667  
**Sample Matrix:** water

**REPORT OF SURROGATE RECOVERY**

| Surrogate Compound                                   | Method | Recovery | Recovery Limit | Data Qualifiers |
|------------------------------------------------------|--------|----------|----------------|-----------------|
| 1,2-Dichloroethane-d4<br>Toluene-d8                  | 8260b  | 98.7     | 80-120         | ---             |
|                                                      | 8260b  | 99.8     | 88-110         | ---             |
| 2-Fluorobiphenyl<br>Nitrobenzene-d5<br>Terphenyl-d14 | 8270c  | 64.2     | 43-116         | ---             |
|                                                      | 8270c  | 52.5     | 35-114         | ---             |
|                                                      | 8270c  | 66.2     | 33-141         | ---             |

Data Qualifiers: D= Surrogates diluted and X= Surrogates outside advisory recovery limits.

# Exception Report:

|                                       |               |                  |
|---------------------------------------|---------------|------------------|
| Report #/Lab ID#: 118667              | Matrix: water | Attn: Ken Dutton |
| Client: Environmental Tech Group      |               |                  |
| Project ID: Darr Angell 4 / EOT 2075C |               |                  |
| Sample Name: MW 11                    |               |                  |

## Sample Temperature/Condition <=6°C

The typical sample temperature criteria (except for metals by ICP, GFAA and AA and a very few other tests) is <= 6°C. Possible exceptions include samples submitted to laboratory within such a short time after sampling that cooling measures used in the field and during transport had insufficient time to achieve desired temperatures in the samples (see sample collection and sample receipt times) and samples where the temperature could not be measured due to sample submission in a manner precluding temperature measurement without impacting sample integrity (ex. in a bottle with no cooler).

## Sample Bottles & Preservation

- ☒ Sample received in appropriate container(s) and appear to be appropriately preserved.
- ☐ Sample received in appropriate container(s). State of sample preservation unknown.
- ☐ Sample received in inappropriate container(s) and/or with unknown state of preservation.

## J flag Discussion

A J flag data qualifier indicates (as required under TNRCC-TRRP reporting requirements) that the raw calculated analyte concentration in the sample (uncorrected for background levels/blanks and other potential sources of sampling and analytical contamination), though less than the Reported Quantitation Limit (RQL) is greater than the Detection Limit. Because the reported result is below the quantitation limit for this project/sample (or test procedure), GC/MS organics results may or MAY NOT have been verified as to the presence and relative ratio of target ions (eg. the material causing the J flag "hit" in such situations may be nothing more than background ion-fragment noise.)

## Comments pertaining to Data Qualifiers and QC data:

| Parameter          | Qualif | Comment                      |
|--------------------|--------|------------------------------|
| Nickel/ICP         | J      | See J-flag discussion above. |
| Benzofluanthracene | J      | See J-flag discussion above. |
| Pyrene             | J      | See J-flag discussion above. |

## Notes:

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**Client:** Environmental Tech Group

**Attn:** Ken Dutton

**Address:** 2540 W. Marland

Hobbs

Nm 88240

**Phone:** 505 397-4882 **FAX:** 505 397-4701

**Report#/Lab ID#:** 118668 **Report Date:** 09/13/01

**Project ID:** Dart Angell 4 / EOT 2075C

**Sample Name:** MW 12

**Sample Matrix:** water

**Date Received:** 08/24/2001 **Time:** 12:31

**Date Sampled:** 08/21/2001 **Time:** 00:00

## REPORT OF ANALYSIS

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

| Parameter              | Result  | Units    | RQL <sup>5</sup> | Blank   | Date     | Method <sup>6</sup> | Data Qual <sup>7</sup> | Prec. <sup>2</sup> | Recov. <sup>3</sup> | CCV <sup>4</sup> | LCS <sup>4</sup> |
|------------------------|---------|----------|------------------|---------|----------|---------------------|------------------------|--------------------|---------------------|------------------|------------------|
| A/BN extraction-PAH    | ---     | ---      | ---              | ---     | 08/28/01 | 3520                | ---                    | ---                | ---                 | ---              | ---              |
| Hardness               | 1600    | mg/L CaC | ---              | ---     | 09/13/01 | SM 2340B            | ---                    | ---                | ---                 | ---              | ---              |
| Metals Dig.-Hg         | ---     | ---      | ---              | ---     | 08/29/01 | 7470&245.1          | ---                    | ---                | ---                 | ---              | ---              |
| Metals Dig.-HNO3       | ---     | ---      | ---              | ---     | 08/28/01 | 3015                | ---                    | ---                | ---                 | ---              | ---              |
| Total dissolved solids | 551     | mg/L     | 1                | <1      | 08/28/01 | 160.1               | ---                    | 1.59               | -NA-                | -NA-             | -NA-             |
| Aluminum/ICP           | <0.2    | mg/L     | 0.2              | <0.2    | 08/31/01 | 6010 & 200.7        | J                      | 7.92               | 99.77               | 103.31           | 97.92            |
| Arsenic/ICP            | <0.05   | mg/L     | 0.05             | <0.05   | 08/31/01 | 6010 & 200.7        | ---                    | 7.03               | 109.66              | 107.95           | 105.27           |
| Barium/ICP             | 0.106   | mg/L     | 0.01             | <0.01   | 08/31/01 | 6010 & 200.7        | ---                    | 9.31               | 77.99               | 98.25            | 81.08            |
| Boron/ICP              | 0.148   | mg/L     | 0.02             | <0.02   | 08/31/01 | 6010 & 200.7        | ---                    | 6.6                | 102.26              | 108              | 101.23           |
| Cadmium/ICP            | <0.005  | mg/L     | 0.005            | <0.005  | 08/31/01 | 6010 & 200.7        | ---                    | 6.94               | 101.61              | 98               | 99.8             |
| Calcium/ICP            | 619     | mg/L     | 10               | <10     | 09/06/01 | 6010 & 200.7        | ---                    | 5.62               | 109.46              | 103.18           | 105.79           |
| Chromium/ICP           | <0.01   | mg/L     | 0.01             | <0.01   | 08/31/01 | 6010 & 200.7        | ---                    | 7.39               | 103.01              | 97.13            | 101.42           |
| Cobalt/ICP             | <0.02   | mg/L     | 0.02             | <0.02   | 08/31/01 | 6010 & 200.7        | ---                    | 6.84               | 103.77              | 98               | 101.64           |
| Copper/ICP             | <0.02   | mg/L     | 0.02             | <0.02   | 08/31/01 | 6010 & 200.7        | ---                    | 7.93               | 95.54               | 95.75            | 93.87            |
| Iron/ICP               | 0.0576  | mg/L     | 0.05             | <0.05   | 08/31/01 | 6010 & 200.7        | ---                    | 6.42               | 103.98              | 100.4            | 101.28           |
| Lead/ICP               | <0.02   | mg/L     | 0.02             | <0.02   | 08/31/01 | 6010 & 200.7        | ---                    | 7.38               | 109.25              | 107.75           | 106.49           |
| Magnesium/ICP          | 10.4    | mg/L     | 0.05             | <0.05   | 08/31/01 | 6010 & 200.7        | ---                    | 8.86               | 95.93               | 96.65            | 95.41            |
| Manganese/ICP          | 0.0917  | mg/L     | 0.01             | <0.01   | 08/31/01 | 6010 & 200.7        | ---                    | 6.84               | 104.96              | 101              | 102.77           |
| Mercury/CVAA           | <0.0002 | mg/L     | 0.0002           | <0.0002 | 08/30/01 | 245.1&7470          | ---                    | 5.56               | 70.71               | 88               | 118.67           |
| Molybdenum/ICP         | <0.02   | mg/L     | 0.02             | <0.02   | 08/31/01 | 6010 & 200.7        | J                      | 7.8                | 102.24              | 98.75            | 98.09            |
| Nickel/ICP             | <0.02   | mg/L     | 0.02             | <0.02   | 08/31/01 | 6010 & 200.7        | J                      | 6.88               | 107.29              | 106.75           | 104.36           |

This analytical report is respectfully submitted by AnalySys, Inc. The enclosed results have been carefully reviewed and, to the best of my knowledge, the analytical results are consistent with AnalySys, Inc.'s Quality Assurance/Quality Control Program. © Copyright 2000, AnalySys, Inc., Austin, TX. All rights reserved. No part of this publication may be reproduced or transmitted in any form or by any means without the express written consent of AnalySys, Inc.

Respectfully Submitted,

*Richard Laster*

Richard Laster

1. Quality assurance data is for the sample batch 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 Laboratory Control Sample (LCS) results are expressed as the percent (%) recovery of analyte from a known standard or matrix. 5. Reporting Quantitation Limits (RQL), typically at or above the Practical Quantitation Limit (PQL) of the analytical method. 6. Method numbers typically denote USEPA procedures. Less than (" $<$ ") values reflect nominal quantitation limits adjusted for any required dilutions. 7. Data Qualifiers are J = analyte potentially present between the PQL and the MDL. B = Analyte detected in associated method blank(s). S1 = MS and/or MSD recovery exceed advisory limits. S2 = Post digestion spike (PDS) recovery exceeds advisory limit. S3 = MS and/or MSD and PDS recoveries exceed advisory limits. P = Precision higher than advisory limit. M = Matrix interference.

Client: Environmental Tech Group  
Attn: Ken Dutton

Project ID: Darr Angell 4 / EOT 2075C  
Sample Name: MW 12

Report#/Lab ID#: 118668  
Sample Matrix: water

REPORT OF ANALYSIS-cont.

QUALITY ASSURANCE DATA<sup>1</sup>

| Parameter                    | Result | Units | RQL <sup>5</sup> | Blank  | Date     | Method <sup>6</sup> | Data Qual <sup>7</sup> | Prec. <sup>2</sup> | Recov. <sup>3</sup> | CCV <sup>4</sup> | LCS <sup>4</sup> |
|------------------------------|--------|-------|------------------|--------|----------|---------------------|------------------------|--------------------|---------------------|------------------|------------------|
| Potassium/AA                 | 3.88   | mg/L  | 0.5              | <0.5   | 08/30/01 | 258.1&7610          | ---                    | 7.08               | 114.81              | 84.39            | 91.65            |
| Selenium/ICP                 | <0.05  | mg/L  | 0.05             | <0.05  | 08/31/01 | 6010 & 200.7        | ---                    | 7.05               | 106.04              | 104.85           | 102.91           |
| Silver/GFAA                  | <0.002 | mg/L  | 0.002            | <0.002 | 09/05/01 | 272.2&7761          | ---                    | 7.35               | 116.51              | 87.5             | 103              |
| Sodium/ICP                   | 42.7   | mg/L  | 0.5              | <0.5   | 08/31/01 | 6010 & 200.7        | ---                    | 8.14               | 85.76               | 94.5             | 88.69            |
| Zinc/ICP                     | 0.0105 | mg/L  | 0.01             | <0.01  | 08/31/01 | 6010 & 200.7        | ---                    | 7.65               | 106.4               | 101.88           | 103.85           |
| Alkalinity, total            | 1000   | mg/L  | 20               | <20    | 09/04/01 | 310.1               | ---                    | 0                  | -NA-                | -NA-             | -NA-             |
| Chloride                     | 57.5   | mg/L  | 2.5              | <2.5   | 09/04/01 | 325.2&9251          | ---                    | 0.85               | 110.22              | 109.71           | 96.98            |
| Fluoride                     | 2.3    | mg/L  | 0.05             | <0.05  | 09/05/01 | 340.2               | ---                    | 2.05               | 87.62               | 113.84           | 113.84           |
| Nitrate/Nitrite-N            | 0.429  | mg/L  | 0.01             | <0.01  | 09/07/01 | 353.1               | ---                    | 2.27               | 77.66               | 101.59           | 97.73            |
| Sulfate                      | 126    | mg/L  | 5                | <5     | 08/30/01 | 375.4&9038          | ---                    | 2.6                | 105.48              | 101.98           | 102.95           |
| Extractable organics-PAH     | ---    | ---   | ---              | ---    | 08/31/01 | 8270c               | ---                    | ---                | ---                 | ---              | ---              |
| Volatile organics-8260b/BTEX | ---    | ---   | ---              | ---    | 08/31/01 | 8260b               | ---                    | ---                | ---                 | ---              | ---              |
| Benzene                      | 1.4    | µg/L  | 1                | <1     | 08/31/01 | 8260b               | ---                    | 2                  | 93.5                | 91.6             | 91               |
| Ethylbenzene                 | <1     | µg/L  | 1                | <1     | 08/31/01 | 8260b               | ---                    | 0.7                | 98.2                | 104.7            | 99.8             |
| m,p-Xylenes                  | <1     | µg/L  | 1                | <1     | 08/31/01 | 8260b               | ---                    | 0.6                | 100.3               | 107.2            | 102.3            |
| o-Xylene                     | <1     | µg/L  | 1                | <1     | 08/31/01 | 8260b               | ---                    | 0.5                | 103                 | 108.3            | 104.2            |
| Toluene                      | <1     | µg/L  | 1                | <1     | 08/31/01 | 8260b               | ---                    | 2.2                | 99.8                | 96.3             | 96.1             |
| Acenaphthene                 | <0.05  | µg/L  | 0.05             | <0.05  | 08/31/01 | 8270c               | ---                    | 24.5               | 64.8                | 97               | 90.9             |
| Acenaphthylene               | <0.05  | µg/L  | 0.05             | <0.05  | 08/31/01 | 8270c               | ---                    | 20.7               | 66.9                | 104.3            | 98.5             |
| Anthracene                   | <0.05  | µg/L  | 0.05             | <0.05  | 08/31/01 | 8270c               | ---                    | 11                 | 89                  | 98.8             | 101.4            |
| Benzo[a]anthracene           | <0.05  | µg/L  | 0.05             | <0.05  | 08/31/01 | 8270c               | ---                    | 14.4               | 92.8                | 91.3             | 109.4            |
| Benzo[a]pyrene               | <0.05  | µg/L  | 0.05             | <0.05  | 08/31/01 | 8270c               | ---                    | 12.8               | 90                  | 96               | 104.1            |
| Benzo[b]fluoranthene         | <0.05  | µg/L  | 0.05             | <0.05  | 08/31/01 | 8270c               | ---                    | 16.2               | 91.8                | 89.5             | 108              |
| Benzo[g,h,i]perylene         | <0.05  | µg/L  | 0.05             | <0.05  | 08/31/01 | 8270c               | ---                    | 14.3               | 95.4                | 93.7             | 112.3            |
| Benzo[j,k]fluoranthene       | <0.05  | µg/L  | 0.05             | <0.05  | 08/31/01 | 8270c               | ---                    | 17.8               | 88.1                | 99.3             | 101.6            |
| Chrysene                     | <0.05  | µg/L  | 0.05             | <0.05  | 08/31/01 | 8270c               | ---                    | 14.6               | 95.2                | 100.5            | 111.6            |
| Dibenz[a,h]anthracene        | <0.05  | µg/L  | 0.05             | <0.05  | 08/31/01 | 8270c               | ---                    | 14.9               | 96.8                | 91.7             | 108              |
| Fluoranthene                 | <0.05  | µg/L  | 0.05             | <0.05  | 08/31/01 | 8270c               | ---                    | 10                 | 95.1                | 99.6             | 107.8            |
| Fluorene                     | <0.05  | µg/L  | 0.05             | <0.05  | 08/31/01 | 8270c               | ---                    | 22.5               | 75.6                | 99.7             | 96.2             |
| Indeno[1,2,3-cd]pyrene       | <0.05  | µg/L  | 0.05             | <0.05  | 08/31/01 | 8270c               | ---                    | 14.8               | 93.8                | 92.3             | 110.9            |
| Naphthalene                  | <0.05  | µg/L  | 0.05             | <0.05  | 08/31/01 | 8270c               | ---                    | 26.1               | 42.3                | 99.5             | 86.7             |
| Phenanthrene                 | <0.05  | µg/L  | 0.05             | <0.05  | 08/31/01 | 8270c               | ---                    | 10.9               | 94.7                | 94.6             | 107.8            |

Client: Environmental Tech Group  
Attn: Ken Dutton

Project ID: Darr Angell 4 / EOT 2075C  
Sample Name: MW 12

Report#/Lab ID#: 118668  
Sample Matrix: water

**REPORT OF ANALYSIS-cont.**

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

| Parameter | Result | Units | RQL <sup>5</sup> | Blank | Date     | Method <sup>6</sup> | Data Qual <sup>7</sup> | Prec. <sup>2</sup> | Recov. <sup>3</sup> | CCV <sup>4</sup> | LCS <sup>4</sup> |
|-----------|--------|-------|------------------|-------|----------|---------------------|------------------------|--------------------|---------------------|------------------|------------------|
| Pyrene    | <0.05  | µg/L  | 0.05             | <0.05 | 08/31/01 | 8270c               | ---                    | 14.4               | 91.4                | 97.3             | 107.2            |

**Client:** Environmental Tech Group  
**Attn:** Ken Dutton

**Project ID:** Darr Angell 4 / EOT 2075C  
**Sample Name:** MW 12

**Report#/Lab ID#:** 118668  
**Sample Matrix:** water

**REPORT OF SURROGATE RECOVERY**

| Surrogate Compound                                   | Method | Recovery | Recovery Limit | Data Qualifiers |
|------------------------------------------------------|--------|----------|----------------|-----------------|
| 1,2-Dichloroethane-d4<br>Toluene-d8                  | 8260b  | 106      | 80-120         | ---             |
|                                                      | 8260b  | 101      | 88-110         | ---             |
| 2-Fluorobiphenyl<br>Nitrobenzene-d5<br>Terphenyl-d14 | 8270c  | 46.8     | 43-116         | ---             |
|                                                      | 8270c  | 51       | 35-114         | ---             |
|                                                      | 8270c  | 45.8     | 33-141         | ---             |

Data Qualifiers: D= Surrogates diluted and X= Surrogates outside advisory recovery limits.



# Exception Report:

Report #/Lab ID#: 118668 Matrix: water  
Client: Environmental Tech Group  
Project ID: Darr Angell 4 / EOT 2075C  
Sample Name: MW 12  
Attn: Ken Dutton

## Sample Temperature/Condition <=6°C

The typical sample temperature criteria (except for metals by ICP, GFAA and AA and a very few other tests) is <= 6°C. Possible exceptions include samples submitted to laboratory within such a short time after sampling that cooling measures used in the field and during transport had insufficient time to achieve desired temperatures in the samples (see sample collection and sample receipt times) and samples where the temperature could not be measured due to sample submission in a manner precluding temperature measurement without impacting sample integrity (ex. in a bottle with no cooler).

## Sample Bottles & Preservation

- ☒ Sample received in appropriate container(s) and appear to be appropriately preserved.
- ☐ Sample received in appropriate container(s). State of sample preservation unknown.
- ☐ Sample received in inappropriate container(s) and/or with unknown state of preservation.

## J flag Discussion

A J flag data qualifier indicates (as required under TNRCC-TRRP reporting requirements) that the raw calculated analyte concentration in the sample (uncorrected for background levels/blanks and other potential sources of sampling and analytical contamination), though less than the Reported Quantitation Limit (RQL) is greater than the Detection Limit. Because the reported result is below the quantitation limit for this project/sample (or test procedure), GC/MS organics results may or MAY NOT have been verified as to the presence and relative ratio of target ions (eg. the material causing the J flag "hit" in such situations may be nothing more than background ion-fragment noise.)

## Comments pertaining to Data Qualifiers and QC data:

| Parameter      | Qualif | Comment                      |
|----------------|--------|------------------------------|
| Aluminum/ICP   | J      | See J-flag discussion above. |
| Molybdenum/ICP | J      | See J-flag discussion above. |
| Nickel/ICP     | J      | See J-flag discussion above. |

## Notes:

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**Client:** Environmental Tech Group

**Attn:** Ken Dutton

**Address:** 2540 W. Marland

Hobbs

Nm 88240

**Phone:** 505 397-4882 **FAX:** 505 397-4701

**Report# / Lab ID#:** 118669 **Report Date:** 09/13/01

**Project ID:** Darr Angell 4 / EOT 2075C

**Sample Name:** MW 13

**Sample Matrix:** water

**Date Received:** 08/24/2001 **Time:** 12:31

**Date Sampled:** 08/21/2001 **Time:** 00:00

**REPORT OF ANALYSIS**

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

| Parameter              | Result  | Units    | RQL <sup>5</sup> | Blank   | Date     | Method <sup>6</sup> | Data Qual <sup>7</sup> | Prec. <sup>2</sup> | Recov. <sup>3</sup> | CCV <sup>4</sup> | LCS <sup>4</sup> |
|------------------------|---------|----------|------------------|---------|----------|---------------------|------------------------|--------------------|---------------------|------------------|------------------|
| A/BN extraction-PAH    | ---     | ---      | ---              | ---     | 08/28/01 | 3520                | ---                    | ---                | ---                 | ---              | ---              |
| Hardness               | 1500    | mg/L CaC | ---              | ---     | 09/13/01 | SM 2340B            | ---                    | ---                | ---                 | ---              | ---              |
| Metals Dig.-Hg         | ---     | ---      | ---              | ---     | 08/29/01 | 7470&245.1          | ---                    | ---                | ---                 | ---              | ---              |
| Metals Dig.-HNO3       | ---     | ---      | ---              | ---     | 08/28/01 | 3015                | ---                    | ---                | ---                 | ---              | ---              |
| Total dissolved solids | 570     | mg/L     | 1                | <1      | 08/28/01 | 160.1               | ---                    | 1.59               | -NA-                | -NA-             | -NA-             |
| Aluminum/ICP           | 0.454   | mg/L     | 0.2              | <0.2    | 08/31/01 | 6010 & 200.7        | ---                    | 7.92               | 99.77               | 103.31           | 97.92            |
| Arsenic/ICP            | <0.05   | mg/L     | 0.05             | <0.05   | 08/31/01 | 6010 & 200.7        | ---                    | 7.03               | 109.66              | 107.95           | 105.27           |
| Barium/ICP             | 0.116   | mg/L     | 0.01             | <0.01   | 08/31/01 | 6010 & 200.7        | ---                    | 9.31               | 77.99               | 98.25            | 81.08            |
| Boron/ICP              | 0.163   | mg/L     | 0.02             | <0.02   | 08/31/01 | 6010 & 200.7        | ---                    | 6.6                | 102.26              | 108              | 101.23           |
| Cadmium/ICP            | <0.005  | mg/L     | 0.005            | <0.005  | 08/31/01 | 6010 & 200.7        | ---                    | 6.94               | 101.61              | 98               | 99.8             |
| Calcium/ICP            | 572     | mg/L     | 10               | <10     | 09/06/01 | 6010 & 200.7        | ---                    | 5.62               | 109.46              | 103.18           | 105.79           |
| Chromium/ICP           | <0.01   | mg/L     | 0.01             | <0.01   | 08/31/01 | 6010 & 200.7        | ---                    | 7.39               | 103.01              | 97.13            | 101.42           |
| Cobalt/ICP             | <0.02   | mg/L     | 0.02             | <0.02   | 08/31/01 | 6010 & 200.7        | ---                    | 6.84               | 103.77              | 98               | 101.64           |
| Copper/ICP             | <0.02   | mg/L     | 0.02             | <0.02   | 08/31/01 | 6010 & 200.7        | ---                    | 7.93               | 95.54               | 95.75            | 93.87            |
| Iron/ICP               | 0.277   | mg/L     | 0.05             | <0.05   | 08/31/01 | 6010 & 200.7        | ---                    | 6.42               | 103.98              | 100.4            | 101.28           |
| Lead/ICP               | <0.02   | mg/L     | 0.02             | <0.02   | 08/31/01 | 6010 & 200.7        | ---                    | 7.38               | 109.25              | 107.75           | 106.49           |
| Magnesium/ICP          | 11.6    | mg/L     | 5                | <5      | 09/06/01 | 6010 & 200.7        | ---                    | 8.86               | 95.93               | 96.65            | 95.41            |
| Manganese/ICP          | 0.116   | mg/L     | 0.01             | <0.01   | 08/31/01 | 6010 & 200.7        | ---                    | 6.84               | 104.96              | 101              | 102.77           |
| Mercury/CVAA           | <0.0002 | mg/L     | 0.0002           | <0.0002 | 08/30/01 | 245.1&7470          | ---                    | 5.56               | 70.71               | 88               | 118.67           |
| Molybdenum/ICP         | <0.02   | mg/L     | 0.02             | <0.02   | 08/31/01 | 6010 & 200.7        | J                      | 7.8                | 102.24              | 98.75            | 98.09            |
| Nickel/ICP             | <0.02   | mg/L     | 0.02             | <0.02   | 08/31/01 | 6010 & 200.7        | J                      | 6.88               | 107.29              | 106.75           | 104.36           |

This analytical report is respectfully submitted by AnalySys, Inc. The enclosed results have been carefully reviewed and, to the best of my knowledge, the analytical results are consistent with AnalySys, Inc.'s Quality Assurance/Quality Control Program. © Copyright 2000, AnalySys, Inc., Austin, TX. All rights reserved. No part of this publication may be reproduced or transmitted in any form or by any means without the express written consent of AnalySys, Inc.

Respectfully Submitted,

*Richard Laster*

Richard Laster

1. Quality assurance data is for the sample batch 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 Laboratory Control Sample (LCS) results are expressed as the percent (%) recovery of analyte from a known standard or matrix. 5. Reporting Quantitation Limits (RQL), typically at or above the Practical Quantitation Limit (PQL) of the analytical method. 6. Method numbers typically denote USEPA procedures. Less than (" $<$ ") values reflect nominal quantitation limits adjusted for any required dilutions. 7. Data Qualifiers are J = analyte potentially present between the PQL and the MDL. B = Analyte detected in associated method blank(s). S1 = MS and/or MSD recovery exceed advisory limits. S2 = Post digestion spike (PDS) recovery exceeds advisory limit. S3 = MS and/or MSD and PDS recoveries exceed advisory limits. P = Precision higher than advisory limit. M = Matrix interference.

Client: Environmental Tech Group  
Attn: Ken Dutton

Project ID: Darr Angell 4 / EOT 2075C  
Sample Name: MW 13

Report# / Lab ID#: 118669  
Sample Matrix: water

**REPORT OF ANALYSIS-cont.**

**QUALITY ASSURANCE DATA 1**

| Parameter                    | Result | Units | RQL <sup>5</sup> | Blank  | Date     | Method <sup>6</sup> | Data Qual <sup>7</sup> | Prec. <sup>2</sup> | Recov. <sup>3</sup> | CCV <sup>4</sup> | LCS <sup>4</sup> |
|------------------------------|--------|-------|------------------|--------|----------|---------------------|------------------------|--------------------|---------------------|------------------|------------------|
| Potassium/AA                 | 3.99   | mg/L  | 0.5              | <0.5   | 08/30/01 | 258.1&7610          | ---                    | 7.08               | 114.81              | 84.39            | 91.65            |
| Selenium/ICP                 | <0.05  | mg/L  | 0.05             | <0.05  | 08/31/01 | 6010 & 200.7        | ---                    | 7.05               | 106.04              | 104.85           | 102.91           |
| Silver/GFAA                  | <0.002 | mg/L  | 0.002            | <0.002 | 09/05/01 | 272.2&7761          | ---                    | 7.35               | 116.51              | 87.5             | 103              |
| Sodium/ICP                   | 47.8   | mg/L  | 0.5              | <0.5   | 08/31/01 | 6010 & 200.7        | ---                    | 8.14               | 85.76               | 94.5             | 88.69            |
| Zinc/ICP                     | 0.0221 | mg/L  | 0.01             | <0.01  | 08/31/01 | 6010 & 200.7        | ---                    | 7.65               | 106.4               | 101.88           | 103.85           |
| Alkalinity, total            | 640    | mg/L  | 20               | <20    | 09/04/01 | 310.1               | ---                    | 0                  | -NA-                | -NA-             | -NA-             |
| Chloride                     | 55.5   | mg/L  | 2.5              | <2.5   | 09/04/01 | 325.2&9251          | ---                    | 0.85               | 110.22              | 109.71           | 96.98            |
| Fluoride                     | 1.8    | mg/L  | 0.05             | <0.05  | 09/05/01 | 340.2               | ---                    | 2.05               | 87.62               | 113.84           | 113.84           |
| Nitrate/Nitrite-N            | 0.326  | mg/L  | 0.01             | <0.01  | 09/07/01 | 353.1               | ---                    | 2.27               | 77.66               | 101.59           | 97.73            |
| Sulfate                      | 119    | mg/L  | 5                | <5     | 08/30/01 | 375.4&9038          | ---                    | 2.6                | 105.48              | 101.98           | 102.95           |
| Extractable organics-PAH     | ---    | ---   | ---              | ---    | 08/31/01 | 8270c               | ---                    | ---                | ---                 | ---              | ---              |
| Volatile organics-8260b/BTEX | ---    | ---   | ---              | ---    | 08/31/01 | 8260b               | ---                    | ---                | ---                 | ---              | ---              |
| Benzene                      | 2.05   | µg/L  | 1                | <1     | 08/31/01 | 8260b               | ---                    | 2                  | 93.5                | 91.6             | 91               |
| Ethylbenzene                 | <1     | µg/L  | 1                | <1     | 08/31/01 | 8260b               | ---                    | 0.7                | 98.2                | 104.7            | 99.8             |
| m,p-Xylenes                  | <1     | µg/L  | 1                | <1     | 08/31/01 | 8260b               | ---                    | 0.6                | 100.3               | 107.2            | 102.3            |
| o-Xylene                     | <1     | µg/L  | 1                | <1     | 08/31/01 | 8260b               | ---                    | 0.5                | 103                 | 108.3            | 104.2            |
| Toluene                      | <1     | µg/L  | 1                | <1     | 08/31/01 | 8260b               | ---                    | 2.2                | 99.8                | 96.3             | 96.1             |
| Acenaphthene                 | <0.05  | µg/L  | 0.05             | <0.05  | 08/31/01 | 8270c               | ---                    | 24.5               | 64.8                | 97               | 90.9             |
| Acenaphthylene               | <0.05  | µg/L  | 0.05             | <0.05  | 08/31/01 | 8270c               | ---                    | 20.7               | 66.9                | 104.3            | 98.5             |
| Anthracene                   | <0.05  | µg/L  | 0.05             | <0.05  | 08/31/01 | 8270c               | ---                    | 11                 | 89                  | 98.8             | 101.4            |
| Benzo[a]anthracene           | <0.05  | µg/L  | 0.05             | <0.05  | 08/31/01 | 8270c               | ---                    | 14.4               | 92.8                | 91.3             | 109.4            |
| Benzo[a]pyrene               | <0.05  | µg/L  | 0.05             | <0.05  | 08/31/01 | 8270c               | ---                    | 12.8               | 90                  | 96               | 104.1            |
| Benzo[b]fluoranthene         | <0.05  | µg/L  | 0.05             | <0.05  | 08/31/01 | 8270c               | ---                    | 16.2               | 91.8                | 89.5             | 108              |
| Benzo[g,h,i]perylene         | <0.05  | µg/L  | 0.05             | <0.05  | 08/31/01 | 8270c               | ---                    | 14.3               | 95.4                | 93.7             | 112.3            |
| Benzo[j,k]fluoranthene       | <0.05  | µg/L  | 0.05             | <0.05  | 08/31/01 | 8270c               | ---                    | 17.8               | 88.1                | 99.3             | 101.6            |
| Chrysene                     | <0.05  | µg/L  | 0.05             | <0.05  | 08/31/01 | 8270c               | ---                    | 14.6               | 95.2                | 100.5            | 111.6            |
| Dibenz[a,h]anthracene        | <0.05  | µg/L  | 0.05             | <0.05  | 08/31/01 | 8270c               | ---                    | 14.9               | 96.8                | 91.7             | 108              |
| Fluoranthene                 | <0.05  | µg/L  | 0.05             | <0.05  | 08/31/01 | 8270c               | ---                    | 10                 | 95.1                | 99.6             | 107.8            |
| Fluorene                     | <0.05  | µg/L  | 0.05             | <0.05  | 08/31/01 | 8270c               | ---                    | 22.5               | 75.6                | 99.7             | 96.2             |
| Indeno[1,2,3-cd]pyrene       | <0.05  | µg/L  | 0.05             | <0.05  | 08/31/01 | 8270c               | ---                    | 14.8               | 93.8                | 92.3             | 110.9            |
| Naphthalene                  | <0.05  | µg/L  | 0.05             | <0.05  | 08/31/01 | 8270c               | ---                    | 26.1               | 42.3                | 99.5             | 86.7             |
| Phenanthrene                 | <0.05  | µg/L  | 0.05             | <0.05  | 08/31/01 | 8270c               | ---                    | 10.9               | 94.7                | 94.6             | 107.8            |

Client: Environmental Tech Group  
 Attn: Ken Dutton

Project ID: Darr Angell 4 / EOT 2075C  
 Sample Name: MW 13

Report#/Lab ID#: 118669  
 Sample Matrix: water

REPORT OF ANALYSIS-cont.

QUALITY ASSURANCE DATA<sup>1</sup>

| Parameter | Result | Units | RQL <sup>5</sup> | Blank | Date     | Method <sup>6</sup> | Data Qual <sup>7</sup> | Prec. <sup>2</sup> | Recov. <sup>3</sup> | CCV <sup>4</sup> | LCS <sup>4</sup> |
|-----------|--------|-------|------------------|-------|----------|---------------------|------------------------|--------------------|---------------------|------------------|------------------|
| Pyrene    | <0.05  | µg/L  | 0.05             | <0.05 | 08/31/01 | 8270c               | ---                    | 14.4               | 91.4                | 97.3             | 107.2            |

Client: Environmental Tech Group  
Attn: Ken Dutton

Project ID: Darr Angell 4 / EOT 2075C  
Sample Name: MW 13

Report#/Lab ID#: 118669  
Sample Matrix: water

# REPORT OF SURROGATE RECOVERY

| Surrogate Compound                                   | Method | Recovery | Recovery Limit | Data Qualifiers |
|------------------------------------------------------|--------|----------|----------------|-----------------|
| 1,2-Dichloroethane-d4<br>Toluene-d8                  | 8260b  | 98       | 80-120         | ---             |
|                                                      | 8260b  | 99.4     | 88-110         | ---             |
| 2-Fluorobiphenyl<br>Nitrobenzene-d5<br>Terphenyl-d14 | 8270c  | 49.5     | 43-116         | ---             |
|                                                      | 8270c  | 70.3     | 35-114         | ---             |
|                                                      | 8270c  | 49.8     | 33-141         | ---             |

Data Qualifiers: D= Surrogates diluted and X= Surrogates outside advisory recovery limits.

# Exception Report:

Report #/Lab ID#: 118669 Matrix: water  
Client: Environmental Tech Group Attn: Ken Dutton  
Project ID: Dar Angell 4 / EOT 2075C  
Sample Name: MW 13

## Sample Temperature/Condition <=6°C

The typical sample temperature criteria (except for metals by ICP, GFAA and AA and a very few other tests) is <= 6°C. Possible exceptions include samples submitted to laboratory within such a short time after sampling that cooling measures used in the field and during transport had insufficient time to achieve desired temperatures in the samples (see sample collection and sample receipt times) and samples where the temperature could not be measured due to sample submission in a manner precluding temperature measurement without impacting sample integrity (ex. in a bottle with no cooler).

## Sample Bottles & Preservation

- ☒ Sample received in appropriate container(s) and appear to be appropriately preserved.
- ☐ Sample received in appropriate container(s). State of sample preservation unknown.
- ☐ Sample received in inappropriate container(s) and/or with unknown state of preservation.

## J flag Discussion

A J flag data qualifier indicates (as required under TNRCC-TRRP reporting requirements) that the raw calculated analyte concentration in the sample (uncorrected for background levels/blanks and other potential sources of sampling and analytical contamination), though less than the Reported Quantitation Limit (RQL) is greater than the Detection Limit. Because the reported result is below the quantitation limit for this project/sample (or test procedure), GC/MS organics results may or MAY NOT have been verified as to the presence and relative ratio of target ions (eg. the material causing the J flag "hit" in such situations may be nothing more than background ion-fragment noise.)

## Comments pertaining to Data Qualifiers and QC data:

| Parameter      | Qualif | Comment                      |
|----------------|--------|------------------------------|
| Molybdenum/ICP | J      | See J-flag discussion above. |
| Nickel/ICP     | J      | See J-flag discussion above. |

## Notes:

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**Client:** Environmental Tech Group  
**Attn:** Ken Dutton  
**Address:** 2540 W. Marland  
Hobbs Nm 88240  
**Phone:** 505 397-4882 **FAX:** 505 397-4701

**Report#/Lab ID#:** 118670 **Report Date:** 09/13/01  
**Project ID:** Darr Angell 4 / EOT 2075C  
**Sample Name:** RW 5  
**Sample Matrix:** water  
**Date Received:** 08/24/2001 **Time:** 12:31  
**Date Sampled:** 08/21/2001 **Time:** 00:00

**REPORT OF ANALYSIS**

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

| Parameter              | Result  | Units    | RQL <sup>5</sup> | Blank   | Date     | Method <sup>6</sup> | Data Qual <sup>7</sup> | Prec. <sup>2</sup> | Recov. <sup>3</sup> | CCV <sup>4</sup> | LCS <sup>4</sup> |
|------------------------|---------|----------|------------------|---------|----------|---------------------|------------------------|--------------------|---------------------|------------------|------------------|
| A/BN extraction-PAH    | ---     | ---      | ---              | ---     | 08/28/01 | 3520                | ---                    | ---                | ---                 | ---              | ---              |
| Hardness               | 1100    | mg/L CaC | ---              | ---     | 09/13/01 | SM 2340B            | ---                    | ---                | ---                 | ---              | ---              |
| Metals Dig.-Hg         | ---     | ---      | ---              | ---     | 08/29/01 | 7470&245.1          | ---                    | ---                | ---                 | ---              | ---              |
| Metals Dig.-HNO3       | ---     | ---      | ---              | ---     | 08/28/01 | 3015                | ---                    | ---                | ---                 | ---              | ---              |
| Total dissolved solids | 543     | mg/L     | 1                | <1      | 08/28/01 | 160.1               | ---                    | 1.59               | -NA-                | -NA-             | -NA-             |
| Aluminum/ICP           | <0.2    | mg/L     | 0.2              | <0.2    | 08/31/01 | 6010 & 200.7        | J                      | 7.92               | 99.77               | 103.31           | 97.92            |
| Arsenic/ICP            | <0.05   | mg/L     | 0.05             | <0.05   | 08/31/01 | 6010 & 200.7        | ---                    | 7.03               | 109.66              | 107.95           | 105.27           |
| Barium/ICP             | 0.106   | mg/L     | 0.01             | <0.01   | 08/31/01 | 6010 & 200.7        | ---                    | 9.31               | 77.99               | 98.25            | 81.08            |
| Boron/ICP              | 0.134   | mg/L     | 0.02             | <0.02   | 08/31/01 | 6010 & 200.7        | ---                    | 6.6                | 102.26              | 108              | 101.23           |
| Cadmium/ICP            | <0.005  | mg/L     | 0.005            | <0.005  | 08/31/01 | 6010 & 200.7        | ---                    | 6.94               | 101.61              | 98               | 99.8             |
| Calcium/ICP            | 408     | mg/L     | 10               | <10     | 09/06/01 | 6010 & 200.7        | ---                    | 5.62               | 109.46              | 103.18           | 105.79           |
| Chromium/ICP           | <0.01   | mg/L     | 0.01             | <0.01   | 08/31/01 | 6010 & 200.7        | ---                    | 7.39               | 103.01              | 97.13            | 101.42           |
| Cobalt/ICP             | <0.02   | mg/L     | 0.02             | <0.02   | 08/31/01 | 6010 & 200.7        | ---                    | 6.84               | 103.77              | 98               | 101.64           |
| Copper/ICP             | <0.02   | mg/L     | 0.02             | <0.02   | 08/31/01 | 6010 & 200.7        | ---                    | 7.93               | 95.54               | 95.75            | 93.87            |
| Iron/ICP               | <0.05   | mg/L     | 0.05             | <0.05   | 08/31/01 | 6010 & 200.7        | J                      | 6.42               | 103.98              | 100.4            | 101.28           |
| Lead/ICP               | <0.02   | mg/L     | 0.02             | <0.02   | 08/31/01 | 6010 & 200.7        | ---                    | 7.38               | 109.25              | 107.75           | 106.49           |
| Magnesium/ICP          | 10.8    | mg/L     | 0.05             | <0.05   | 08/31/01 | 6010 & 200.7        | ---                    | 8.86               | 95.93               | 96.65            | 95.41            |
| Manganese/ICP          | 0.0843  | mg/L     | 0.01             | <0.01   | 08/31/01 | 6010 & 200.7        | ---                    | 6.84               | 104.96              | 101              | 102.77           |
| Mercury/CVAA           | <0.0002 | mg/L     | 0.0002           | <0.0002 | 08/30/01 | 245.1&7470          | ---                    | 5.56               | 70.71               | 88               | 118.67           |
| Molybdenum/ICP         | <0.02   | mg/L     | 0.02             | <0.02   | 08/31/01 | 6010 & 200.7        | J                      | 7.8                | 102.24              | 98.75            | 98.09            |
| Nickel/ICP             | <0.02   | mg/L     | 0.02             | <0.02   | 08/31/01 | 6010 & 200.7        | ---                    | 6.88               | 107.29              | 106.75           | 104.36           |

This analytical report is respectfully submitted by AnalySys, Inc. The enclosed results have been carefully reviewed and, to the best of my knowledge, the analytical results are consistent with AnalySys, Inc.'s Quality Assurance/Quality Control Program. © Copyright 2000, AnalySys, Inc., Austin, TX. All rights reserved. No part of this publication may be reproduced or transmitted in any form or by any means without the express written consent of AnalySys, Inc.

Respectfully Submitted,

*Richard Laster*

Richard Laster

1. Quality assurance data is for the sample batch 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 Laboratory Control Sample (LCS) results are expressed as the percent (%) recovery of analyte from a known standard or matrix. 5. Reporting Quantitation Limits (RQL), typically at or above the Practical Quantitation Limit (PQL) of the analytical method. 6. Method numbers typically denote USEPA procedures. Less than (" $<$ ") values reflect nominal quantitation limits adjusted for any required dilutions. 7. Data Qualifiers are J = analyte potentially present between the PQL and the MDL. B = Analyte detected in associated method blank(s). S1 = MS and/or MSD recovery exceed advisory limits. S2 = Post digestion spike (PDS) recovery exceeds advisory limit. S3 = MS and/or MSD and/or PDS recoveries exceed advisory limits. P = Precision higher than advisory limit. M = Matrix interference.

Client: Environmental Tech Group  
Attn: Ken Dutton

Project ID: Dart Angell 4 / EOT 2075C  
Sample Name: RW 5

Report#/Lab ID#: 118670  
Sample Matrix: water

**REPORT OF ANALYSIS-cont.**

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

| Parameter                    | Result | Units | RQL <sup>5</sup> | Blank  | Date     | Method <sup>6</sup> | Data Qual <sup>7</sup> | Prec. <sup>2</sup> | Recov. <sup>3</sup> | CCV <sup>4</sup> | LCS <sup>4</sup> |
|------------------------------|--------|-------|------------------|--------|----------|---------------------|------------------------|--------------------|---------------------|------------------|------------------|
| Potassium/AA                 | 2.47   | mg/L  | 0.25             | <0.25  | 08/30/01 | 258.1&7610          | ---                    | 7.08               | 114.81              | 84.39            | 91.65            |
| Selenium/ICP                 | <0.05  | mg/L  | 0.05             | <0.05  | 08/31/01 | 6010 & 200.7        | ---                    | 7.05               | 106.04              | 104.85           | 102.91           |
| Silver/GFAA                  | <0.002 | mg/L  | 0.002            | <0.002 | 09/05/01 | 272.2&7761          | ---                    | 7.35               | 116.51              | 87.5             | 103              |
| Sodium/ICP                   | 38     | mg/L  | 0.5              | <0.5   | 08/31/01 | 6010 & 200.7        | ---                    | 8.14               | 85.76               | 94.5             | 88.69            |
| Zinc/ICP                     | <0.01  | mg/L  | 0.01             | <0.01  | 08/31/01 | 6010 & 200.7        | ---                    | 7.65               | 106.4               | 101.88           | 103.85           |
| Alkalinity, total            | 200    | mg/L  | 20               | <20    | 09/04/01 | 310.1               | ---                    | 0                  | -NA-                | -NA-             | -NA-             |
| Chloride                     | 57.5   | mg/L  | 2.5              | <2.5   | 09/04/01 | 325.2&9251          | ---                    | 0.85               | 110.22              | 109.71           | 96.98            |
| Fluoride                     | 2.3    | mg/L  | 0.05             | <0.05  | 09/05/01 | 340.2               | ---                    | 2.05               | 87.62               | 113.84           | 113.84           |
| Nitrate/Nitrite-N            | 0.354  | mg/L  | 0.01             | <0.01  | 09/07/01 | 353.1               | ---                    | 2.27               | 77.66               | 101.59           | 97.73            |
| Sulfate                      | 118    | mg/L  | 5                | <5     | 08/30/01 | 375.4&9038          | ---                    | 2.6                | 105.48              | 101.98           | 102.95           |
| Extractable organics-PAH     | ---    | ---   | ---              | ---    | 08/31/01 | 8270c               | ---                    | ---                | ---                 | ---              | ---              |
| Volatile organics-8260b/BTEX | ---    | ---   | ---              | ---    | 08/31/01 | 8260b               | ---                    | ---                | ---                 | ---              | ---              |
| Benzene                      | 6.79   | µg/L  | 1                | <1     | 08/31/01 | 8260b               | ---                    | 2                  | 93.5                | 91.6             | 91               |
| Ethylbenzene                 | 13.8   | µg/L  | 1                | <1     | 08/31/01 | 8260b               | ---                    | 0.7                | 98.2                | 104.7            | 99.8             |
| m,p-Xylenes                  | 41.7   | µg/L  | 1                | <1     | 08/31/01 | 8260b               | ---                    | 0.6                | 100.3               | 107.2            | 102.3            |
| o-Xylene                     | 17.9   | µg/L  | 1                | <1     | 08/31/01 | 8260b               | ---                    | 0.5                | 103                 | 108.3            | 104.2            |
| Toluene                      | 27.2   | µg/L  | 1                | <1     | 08/31/01 | 8260b               | ---                    | 2.2                | 99.8                | 96.3             | 96.1             |
| Acenaphthene                 | <0.05  | µg/L  | 0.05             | <0.05  | 08/31/01 | 8270c               | ---                    | 24.5               | 64.8                | 97               | 90.9             |
| Acenaphthylene               | <0.05  | µg/L  | 0.05             | <0.05  | 08/31/01 | 8270c               | ---                    | 20.7               | 66.9                | 104.3            | 98.5             |
| Anthracene                   | <0.05  | µg/L  | 0.05             | <0.05  | 08/31/01 | 8270c               | ---                    | 11                 | 89                  | 98.8             | 101.4            |
| Benzo[a]anthracene           | <0.05  | µg/L  | 0.05             | <0.05  | 08/31/01 | 8270c               | J                      | 14.4               | 92.8                | 91.3             | 109.4            |
| Benzo[a]pyrene               | <0.05  | µg/L  | 0.05             | <0.05  | 08/31/01 | 8270c               | ---                    | 12.8               | 90                  | 96               | 104.1            |
| Benzo[b]fluoranthene         | <0.05  | µg/L  | 0.05             | <0.05  | 08/31/01 | 8270c               | ---                    | 16.2               | 91.8                | 89.5             | 108              |
| Benzo[g,h,i]perylene         | <0.05  | µg/L  | 0.05             | <0.05  | 08/31/01 | 8270c               | ---                    | 14.3               | 95.4                | 93.7             | 112.3            |
| Benzo[j,k]fluoranthene       | <0.05  | µg/L  | 0.05             | <0.05  | 08/31/01 | 8270c               | ---                    | 17.8               | 88.1                | 99.3             | 101.6            |
| Chrysene                     | <0.05  | µg/L  | 0.05             | <0.05  | 08/31/01 | 8270c               | ---                    | 14.6               | 95.2                | 100.5            | 111.6            |
| Dibenz[a,h]anthracene        | <0.05  | µg/L  | 0.05             | <0.05  | 08/31/01 | 8270c               | ---                    | 14.9               | 96.8                | 91.7             | 108              |
| Fluoranthene                 | <0.05  | µg/L  | 0.05             | <0.05  | 08/31/01 | 8270c               | ---                    | 10                 | 95.1                | 99.6             | 107.8            |
| Fluorene                     | 0.101  | µg/L  | 0.05             | <0.05  | 08/31/01 | 8270c               | ---                    | 22.5               | 75.6                | 99.7             | 96.2             |
| Indeno[1,2,3-cd]pyrene       | <0.05  | µg/L  | 0.05             | <0.05  | 08/31/01 | 8270c               | ---                    | 14.8               | 93.8                | 92.3             | 110.9            |
| Naphthalene                  | 0.074  | µg/L  | 0.05             | <0.05  | 08/31/01 | 8270c               | ---                    | 26.1               | 42.3                | 99.5             | 86.7             |
| Phenanthrene                 | <0.05  | µg/L  | 0.05             | <0.05  | 08/31/01 | 8270c               | ---                    | 10.9               | 94.7                | 94.6             | 107.8            |



Client: Environmental Tech Group  
Attn: Ken Dutton

Project ID: Darr Angell 4 / EOT 2075C  
Sample Name: RW 5

Report#/Lab ID#: 118670  
Sample Matrix: water

REPORT OF ANALYSIS-cont.

QUALITY ASSURANCE DATA<sup>1</sup>

| Parameter | Result | Units | RQL <sup>5</sup> | Blank | Date     | Method <sup>6</sup> | Data Qual <sup>7</sup> | Prec. <sup>2</sup> | Recov. <sup>3</sup> | CCV <sup>4</sup> | LCS <sup>4</sup> |
|-----------|--------|-------|------------------|-------|----------|---------------------|------------------------|--------------------|---------------------|------------------|------------------|
| Pyrene    | <0.05  | µg/L  | 0.05             | <0.05 | 08/31/01 | 8270c               | ---                    | 14.4               | 91.4                | 97.3             | 107.2            |

**Client:** Environmental Tech Group  
**Attn:** Ken Dutton

**Project ID:** Darr Angell 4 / EOT 2075C  
**Sample Name:** RW 5

**Report#/Lab ID#:** 118670  
**Sample Matrix:** water

**REPORT OF SURROGATE RECOVERY**

| Surrogate Compound                                   | Method | Recovery | Recovery Limit | Data Qualifiers |
|------------------------------------------------------|--------|----------|----------------|-----------------|
| 1,2-Dichloroethane-d4<br>Toluene-d8                  | 8260b  | 101      | 80-120         | ---             |
|                                                      | 8260b  | 100      | 88-110         | ---             |
| 2-Fluorobiphenyl<br>Nitrobenzene-d5<br>Terphenyl-d14 | 8270c  | 43.9     | 43-116         | ---             |
|                                                      | 8270c  | 79.3     | 35-114         | ---             |
|                                                      | 8270c  | 58.9     | 33-141         | ---             |

Data Qualifiers: D= Surrogates diluted and X= Surrogates outside advisory recovery limits.

## Exception Report:

Report #/Lab ID#: 118670 Matrix: water  
Client: Environmental Tech Group Attn: Ken Dutton  
Project ID: Darr Angell 4 / EOT 2075C  
Sample Name: RW 5

### Sample Temperature/Condition $\leq 6^{\circ}\text{C}$

The typical sample temperature criteria (except for metals by ICP, GFAA and AA and a very few other tests) is  $\leq 6^{\circ}\text{C}$ . Possible exceptions include samples submitted to laboratory within such a short time after sampling that cooling measures used in the field and during transport had insufficient time to achieve desired temperatures in the samples (see sample collection and sample receipt times) and samples where the temperature could not be measured due to sample submission in a manner precluding temperature measurement without impacting sample integrity (ex. in a bottle with no cooler).

### Sample Bottles & Preservation

- ☒ Sample received in appropriate container(s) and appear to be appropriately preserved.
- ☐ Sample received in appropriate container(s). State of sample preservation unknown.
- ☐ Sample received in inappropriate container(s) and/or with unknown state of preservation.

### J flag Discussion

A J flag data qualifier indicates (as required under TNRCC-TRRP reporting requirements) that the raw calculated analyte concentration in the sample (uncorrected for background levels/blanks and other potential sources of sampling and analytical contamination), though less than the Reported Quantitation Limit (RQL) is greater than the Detection Limit. Because the reported result is below the quantitation limit for this project/sample (or test procedure), GC/MS organics results may or MAY NOT have been verified as to the presence and relative ratio of target ions (eg. the material causing the J flag "hit" in such situations may be nothing more than background ion-fragment noise.)

### Comments pertaining to Data Qualifiers and QC data:

| Parameter          | Qualif | Comment                      |
|--------------------|--------|------------------------------|
| Aluminum/ICP       | J      | See J-flag discussion above. |
| Iron/ICP           | J      | See J-flag discussion above. |
| Molybdenum/ICP     | J      | See J-flag discussion above. |
| Benzofluanthracene | J      | See J-flag discussion above. |

### Notes:



9267111

## Send Reports to:

## Bill to (if different):

Company Name ETGI

Company Name EOI

Address 2540 W. Markland

City 06605 State MA Zip 88240

ATTN: Ken Dutton

Phone (505) 397-4882 Fax (505) 397-4701

**Rush Status (must be confirmed with lab mgr.):**

Project Name/PO#: Dacc Assoc 114 Sampler: 14

Lot 2075C

[illegible]

(1) Unless 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 limits (MDL/POL). 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 ASI's HSL list at ASI's option. Specific compound lists must be supplied for all GC procedures.

Temp. 1.0°c

| Sample Relinquished By |             |         |      | Sample Received By |             |         |       |
|------------------------|-------------|---------|------|--------------------|-------------|---------|-------|
| Name                   | Affiliation | Date    | Time | Name               | Affiliation | Date    | Time  |
| Leonora Capas          |             | 8-22-01 | 1315 | E. Z. [Signature]  | ASTE        | 8-24-01 | 12:31 |

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



4221 Freidrich Lane, Suite 190, Austin, TX 78744 &  
2209 N. Padre Island Dr., Corpus Christi, TX 78408  
(512) 444-5896 • FAX (512) 447-4766

Client: Environmental Tech Group

Attn: Ken Dutton

Address: 2540 W. Marland

Hobbs Nm 88240

Phone: 505 397-4882

FAX: 505 397-4701

Report#/Lab ID#: 121884 Report Date: 11/15/01

Project ID: Darr Angell #3 EOT 2059C

Sample Name: MW 1

Sample Matrix: water

Date Received: 11/02/2001 Time: 09:30

Date Sampled: 10/30/2001 Time: 14:50

#### REPORT OF ANALYSIS

| Parameter                     | Result | Units | RQL <sup>5</sup> | Blank | Date     | Method <sup>6</sup> | Data Qual <sup>7</sup> | Prec. <sup>2</sup> | Recov. <sup>3</sup> | CCV <sup>4</sup> | LCS <sup>4</sup> |
|-------------------------------|--------|-------|------------------|-------|----------|---------------------|------------------------|--------------------|---------------------|------------------|------------------|
| Volatiles organics-8260b/BTEX | ---    |       | ---              |       | 11/08/01 | 8260b               | ---                    | ---                | ---                 | ---              | ---              |
| Benzene                       | <1     | µg/L  | 1                | <1    | 11/08/01 | 8260b               | J                      | 1.6                | 95.6                | 95               | 92.7             |
| Ethylbenzene                  | <1     | µg/L  | 1                | <1    | 11/08/01 | 8260b               | J                      | 1.7                | 92.6                | 93.5             | 89.8             |
| m,p-Xylenes                   | <1     | µg/L  | 1                | <1    | 11/08/01 | 8260b               | J                      | 1.2                | 95.7                | 96               | 92.7             |
| o-Xylene                      | <1     | µg/L  | 1                | <1    | 11/08/01 | 8260b               | ---                    | 2.4                | 96.7                | 96.5             | 94.1             |
| Toluene                       | <1     | µg/L  | 1                | <1    | 11/08/01 | 8260b               | ---                    | 1.7                | 103.4               | 98.5             | 98.8             |

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

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Respectfully Submitted,

*Richard Laster*

Richard Laster

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2209 N. Padre Island Dr., Corpus Christi, TX 7840408  
(512) 444-5896 • FAX (512) 447-4766

Client: Environmental Tech Group  
Attn: Ken Dutton

Project ID: Darr Angell #3 EOY 2059C  
Sample Name: MW 1

Report#/Lab ID#: 121884  
Sample Matrix: water

**REPORT OF SURROGATE RECOVERY**

| Surrogate Compound    | Method | Recovery | Recovery Limit | Data Qualifiers |
|-----------------------|--------|----------|----------------|-----------------|
| 1,2-Dichloroethane-d4 | 8260b  | 110      | 80-120         | ---             |
| Toluene-d8            | 8260b  | 96.8     | 88-110         | ---             |

Data Qualifiers: D= Surrogates diluted and X= Surrogates outside advisory recovery limits.

## Exceptions Report:

Report #/Lab ID#: 121884 Matrix: water  
Client: Environmental Tech Group Attn: Ken Dutton  
Project ID: Dart Angell #3 EOT 2059C  
Sample Name: MW 1

### Sample Temperature/Condition $\leq 6^{\circ}\text{C}$

The typical sample temperature criteria (except for metals by ICP, GFAA and AA and a very few other tests) is  $\leq 6^{\circ}\text{C}$ . Possible exceptions include samples submitted to laboratory within such a short time after sampling that cooling measures used in the field and during transport had insufficient time to achieve desired temperatures in the samples (see sample collection and sample receipt times) and samples where the temperature could not be measured due to sample submission in a manner precluding temperature measurement without impacting sample integrity (ex. in a bottle with no cooler).

### Sample Bottles & Preservation

- ☒ Sample received in appropriate container(s) and appear to be appropriately preserved.  
☐ Sample received in appropriate container(s). State of sample preservation unknown.  
☐ Sample received in inappropriate container(s) and/or with unknown state of preservation.

### J flag Discussion

A J flag data qualifier indicates (as required under TNRCC-TRRP reporting requirements) that the raw calculated analyte concentration in the sample (uncorrected for background levels/blanks and other potential sources of sampling and analytical contamination), though less than the Reported Quantitation Limit (RQL) is greater than the Detection Limit. Because the reported result is below the quantitation limit for this project/sample (or test procedure), GC/MS organics results may or MAY NOT have been verified as to the presence and relative ratio of target ions (eg. the material causing the J flag "hit" in such situations may be nothing more than background ion-fragment noise.)

### Comments pertaining to Data Qualifiers and QC data:

| Parameter    | Qualif | Comment                      |
|--------------|--------|------------------------------|
| Benzene      | J      | See J-flag discussion above. |
| Ethylbenzene | J      | See J-flag discussion above. |
| m,p-Xylenes  | J      | See J-flag discussion above. |

### Notes:





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Client: Environmental Tech Group

Attn: Ken Dutton

Address: 2540 W. Marland  
Hobbs

Nm 88240

Phone: 505 397-4882 FAX: 505 397-4701

Report#/Lab ID#: 121885 Report Date: 11/15/01

Project ID: Darr Angell #3 EOT 2059C

Sample Name: MW 2

Sample Matrix: water

Date Received: 11/02/2001 Time: 09:30

Date Sampled: 10/30/2001 Time: 16:05

#### REPORT OF ANALYSIS

| Parameter                     | Result | Units | RQL <sup>5</sup> | Blank | Date     | Method <sup>6</sup> | Data Qual <sup>7</sup> | Pre <sup>2</sup> | Recov. <sup>3</sup> | CCV <sup>4</sup> | LCS <sup>4</sup> |
|-------------------------------|--------|-------|------------------|-------|----------|---------------------|------------------------|------------------|---------------------|------------------|------------------|
| Volatiles organics-8260b/BTEX | ---    |       | ---              |       | 11/12/01 | 8260b               | ---                    | ---              | ---                 | ---              | ---              |
| Benzene                       | 2.21   | µg/L  | 1                | <1    | 11/12/01 | 8260b               | ---                    | 17.9             | 111                 | 89.1             | 89.5             |
| Ethylbenzene                  | <1     | µg/L  | 1                | <1    | 11/12/01 | 8260b               | ---                    | 0.9              | 92.7                | 92.9             | 91.1             |
| m,p-Xylenes                   | <1     | µg/L  | 1                | <1    | 11/12/01 | 8260b               | ---                    | 1.1              | 96.9                | 96.7             | 96.2             |
| o-Xylene                      | <1     | µg/L  | 1                | <1    | 11/12/01 | 8260b               | ---                    | 1.7              | 97.8                | 96.8             | 96.8             |
| Toluene                       | <1     | µg/L  | 1                | <1    | 11/12/01 | 8260b               | ---                    | 18               | 118.9               | 95.9             | 96.4             |

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

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Respectfully Submitted,

*Richard Laster*

Richard Laster

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(512) 444-5896 • FAX (512) 447-4766

Client: Environmental Tech Group  
Attn: Ken Dutton

Project ID: Darr Angell #3 EOT 2059C  
Sample Name: MW 2

Report#/Lab ID#: 121885  
Sample Matrix: water

**REPORT OF SURROGATE RECOVERY**

| Surrogate Compound    | Method | Recovery | Recovery Limit | Data Qualifiers |
|-----------------------|--------|----------|----------------|-----------------|
| 1,2-Dichloroethane-d4 | 8260b  | 97.2     | 80-120         | ---             |
| Toluene-d8            | 8260b  | 94.5     | 88-110         | ---             |

Data Qualifiers: D= Surrogates diluted and X= Surrogates outside advisory recovery limits.



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Client: Environmental Tech Group

Attn: Ken Dutton

Address: 2540 W. Marland

Hobbs

Nm 88240

Phone: 505 397-4882 FAX: 505 397-4701

Report#/Lab ID#: 121886 Report Date: 11/15/01

Project ID: Darr Angell #3 EOT 2059C

Sample Name: MW 3

Sample Matrix: water

Date Received: 11/02/2001 Time: 09:30

Date Sampled: 10/30/2001 Time: 16:45

#### REPORT OF ANALYSIS

| Parameter                    | Result | Units |
|------------------------------|--------|-------|
| Volatile organics-8260b/BTEX | ---    |       |
| Benzene                      | 70.5   | µg/L  |
| Ethylbenzene                 | <1     | µg/L  |
| m,p-Xylenes                  | 5.13   | µg/L  |
| o-Xylene                     | <1     | µg/L  |
| Toluene                      | <1     | µg/L  |

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

| Method <sup>6</sup> | Data Qual <sup>7</sup> | Prec. <sup>2</sup> | Recov. <sup>3</sup> | CCV <sup>4</sup> | LCS <sup>4</sup> |
|---------------------|------------------------|--------------------|---------------------|------------------|------------------|
| 8260b               | ---                    | ---                | ---                 | ---              | ---              |
| 8260b               | ---                    | 17.9               | 111                 | 89.1             | 89.5             |
| 8260b               | ---                    | 0.9                | 92.7                | 92.9             | 91.1             |
| 8260b               | ---                    | 1.1                | 96.9                | 96.7             | 96.2             |
| 8260b               | ---                    | 1.7                | 97.8                | 96.8             | 96.8             |
| 8260b               | ---                    | 18                 | 118.9               | 95.9             | 96.4             |

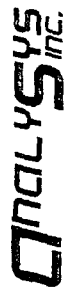
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Richard Laster

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2209 N. Padre Island Dr., Corpus Christi, TX 7840408  
(512) 444-5896 • FAX (512) 447-4766

Client: Environmental Tech Group  
Attn: Ken Dutton

Project ID: Darv Angell #3 EOT 2059C  
Sample Name: MW 3

Report#/Lab ID#: 121886  
Sample Matrix: water

**REPORT OF SURROGATE RECOVERY**

| Surrogate Compound    | Method | Recovery | Recovery Limit | Data Qualifiers |
|-----------------------|--------|----------|----------------|-----------------|
| 1,2-Dichloroethane-d4 | 8260b  | 101      | 80-120         | ---             |
| Toluene-d8            | 8260b  | 93.9     | 88-110         | ---             |

Data Qualifiers: D= Surrogates diluted and X= Surrogates outside advisory recovery limits.



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**Client:** Environmental Tech Group  
**Attn:** Ken Dutton  
**Address:** 2540 W. Marland  
Hobbs Nm 88240  
**Phone:** 505 397-4882 **FAX:** 505 397-4701

**Report#/Lab ID#:** 121887 **Report Date:** 11/15/01  
**Project ID:** Darr Angell #3 EOT 2059C  
**Sample Name:** MW 4  
**Sample Matrix:** water  
**Date Received:** 11/02/2001 **Time:** 09:30  
**Date Sampled:** 10/30/2001 **Time:** 14:30

#### REPORT OF ANALYSIS

| Parameter                    | Result | Units | RQL <sup>5</sup> | Blank | Date     | Method <sup>6</sup> | Data Qual <sup>7</sup> | Prec. <sup>2</sup> | Recov. <sup>3</sup> | CCV <sup>4</sup> | LCS <sup>4</sup> |
|------------------------------|--------|-------|------------------|-------|----------|---------------------|------------------------|--------------------|---------------------|------------------|------------------|
| Volatile organics-8260b/BTEX | ---    |       | ---              |       | 11/08/01 | 8260b               | ---                    | ---                | ---                 | ---              | ---              |
| Benzene                      | <1     | µg/L  | 1                | <1    | 11/08/01 | 8260b               | ---                    | 1.6                | 95.6                | 95               | 92.7             |
| Ethylbenzene                 | <1     | µg/L  | 1                | <1    | 11/08/01 | 8260b               | ---                    | 1.7                | 92.6                | 93.5             | 89.8             |
| m,p-Xylenes                  | <1     | µg/L  | 1                | <1    | 11/08/01 | 8260b               | ---                    | 1.2                | 95.7                | 96               | 92.7             |
| o-Xylene                     | <1     | µg/L  | 1                | <1    | 11/08/01 | 8260b               | ---                    | 2.4                | 96.7                | 96.5             | 94.1             |
| Toluene                      | <1     | µg/L  | 1                | <1    | 11/08/01 | 8260b               | ---                    | 1.7                | 103.4               | 98.5             | 98.8             |

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(512) 444-5896 • FAX (512) 447-4766

Client: Environmental Tech Group  
Attn: Ken Dutton

Project ID: Darr Angell #3 EOT 2059C  
Sample Name: MW 4

Report#/Lab ID#: 121887  
Sample Matrix: water

**REPORT OF SURROGATE RECOVERY**

| Surrogate Compound    | Method | Recovery | Recovery Limit | Data Qualifiers |
|-----------------------|--------|----------|----------------|-----------------|
| 1,2-Dichloroethane-d4 | 8260b  | 113      | 80-120         | ---             |
| Toluene-d8            | 8260b  | 96.5     | 88-110         | ---             |

Data Qualifiers: D= Surrogates diluted and X= Surrogates outside advisory recovery limits.



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Client: Environmental Tech Group

Attn: Ken Dutton

Address: 2540 W. Marland

Hobbs Nm 88240

Phone: 505 397-4882

FAX: 505 397-4701

Report#/Lab ID#: 121888

Report Date: 11/15/01

Project ID: Darr Angell #3 EOT 2059C

Sample Name: MW 5

Sample Matrix: water

Date Received: 11/02/2001 Time: 09:30

Date Sampled: 10/30/2001 Time: 14:45

#### REPORT OF ANALYSIS

| Parameter                    | Result | Units | RQL <sup>5</sup> | Blank | Date     | Method <sup>6</sup> | Data Qual <sup>7</sup> | Prec. <sup>2</sup> | Recov. <sup>3</sup> | CCV <sup>4</sup> | LCS <sup>4</sup> |
|------------------------------|--------|-------|------------------|-------|----------|---------------------|------------------------|--------------------|---------------------|------------------|------------------|
| Volatile organics-8260b/BTEX | ---    |       | ---              |       | 11/08/01 | 8260b               | ---                    | ---                | ---                 | ---              | ---              |
| Benzene                      | <1     | µg/L  | 1                | <1    | 11/08/01 | 8260b               | ---                    | 1.6                | 95.6                | 95               | 92.7             |
| Ethylbenzene                 | <1     | µg/L  | 1                | <1    | 11/08/01 | 8260b               | ---                    | 1.7                | 92.6                | 93.5             | 89.8             |
| m,p-Xylenes                  | <1     | µg/L  | 1                | <1    | 11/08/01 | 8260b               | ---                    | 1.2                | 95.7                | 96               | 92.7             |
| o-Xylene                     | <1     | µg/L  | 1                | <1    | 11/08/01 | 8260b               | ---                    | 2.4                | 96.7                | 96.5             | 94.1             |
| Toluene                      | <1     | µg/L  | 1                | <1    | 11/08/01 | 8260b               | ---                    | 1.7                | 103.4               | 98.5             | 98.8             |

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Report#/Lab ID#: 121888  
Sample Matrix: water

Project ID: Darr Angell #3 EOT 2059C  
Sample Name: MW 5

Client: Environmental Tech Group  
Attn: Ken Dutton

## REPORT OF SURROGATE RECOVERY

| Surrogate Compound    | Method | Recovery | Recovery Limit | Data Qualifiers |
|-----------------------|--------|----------|----------------|-----------------|
| 1,2-Dichloroethane-d4 | 8260b  | 111      | 80-120         | ---             |
| Toluene-d8            | 8260b  | 94.5     | 88-110         | ---             |

Data Qualifiers: D= Surrogates diluted and X= Surrogates outside advisory recovery limits.



**Client:** Environmental Tech Group

**Attn:** Ken Dutton

**Address:** 2540 W. Marland

Hobbs

Nm 88240

**Phone:** 505 397-4882 **FAX:** 505 397-4701

**Report#/Lab ID#:** 121889 **Report Date:** 11/15/01

**Project ID:** Dair Angell #3 EOT 2059C

**Sample Name:** MW 6

**Sample Matrix:** water

**Date Received:** 11/02/2001 **Time:** 09:30

**Date Sampled:** 10/30/2001 **Time:** 15:10

## REPORT OF ANALYSIS

| Parameter                    | Result | Units | RQL <sup>5</sup> | Blank | Date     | Method <sup>6</sup> | Data Qual <sup>7</sup> | Prec. <sup>2</sup> | Recov. <sup>3</sup> | CCV <sup>4</sup> | LCS <sup>4</sup> |
|------------------------------|--------|-------|------------------|-------|----------|---------------------|------------------------|--------------------|---------------------|------------------|------------------|
| Volatile organics-8260b/BTEX | ---    |       | ---              |       | 11/08/01 | 8260b               | ---                    | ---                | ---                 | ---              | ---              |
| Benzene                      | <1     | µg/L  | 1                | <1    | 11/08/01 | 8260b               | ---                    | 1.6                | 95.6                | 95               | 92.7             |
| Ethylbenzene                 | 25.3   | µg/L  | 1                | <1    | 11/08/01 | 8260b               | ---                    | 1.7                | 92.6                | 93.5             | 89.8             |
| m,p-Xylenes                  | 91.7   | µg/L  | 1                | <1    | 11/08/01 | 8260b               | ---                    | 1.2                | 95.7                | 96               | 92.7             |
| o-Xylene                     | 22.8   | µg/L  | 1                | <1    | 11/08/01 | 8260b               | ---                    | 2.4                | 96.7                | 96.5             | 94.1             |
| Toluene                      | 5.81   | µg/L  | 1                | <1    | 11/08/01 | 8260b               | ---                    | 1.7                | 103.4               | 98.5             | 98.8             |

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

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*Richard Laster*

Richard Laster

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Client: Environmental Tech Group  
Attn: Ken Dutton

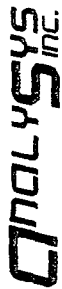
Project ID: Darr Angell #3 EOT 2059C  
Sample Name: MW 6

Report#/Lab ID#: 121889  
Sample Matrix: water

## REPORT OF SURROGATE RECOVERY

| Surrogate Compound    | Method | Recovery | Recovery Limit | Data Qualifiers |
|-----------------------|--------|----------|----------------|-----------------|
| 1,2-Dichloroethane-d4 | 8260b  | 105      | 80-120         | ---             |
| Toluene-d8            | 8260b  | 97.5     | 88-110         | ---             |

Data Qualifiers: D= Surrogates diluted and X= Surrogates outside advisory recovery limits.



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(512) 444-5896 • FAX (512) 447-4766

Client: Environmental Tech Group

Attn: Ken Dutton

Address: 2540 W. Marland

Hobbs

Nm 88240

Phone: 505 397-4882 FAX: 505 397-4701

Report# / Lab ID#: 121890 Report Date: 11/15/01

Project ID: Darr Angell #3 EOT 2059C

Sample Name: MW 7

Sample Matrix: water

Date Received: 11/02/2001 Time: 09:30

Date Sampled: 10/30/2001 Time: 15:35

#### REPORT OF ANALYSIS

| Parameter                    | Result | Units | RQL <sup>5</sup> | Blank | Date     | Method <sup>6</sup> | Data Qual <sup>7</sup> | Prec. <sup>2</sup> | Recov. <sup>3</sup> | CCV <sup>4</sup> | LCS <sup>4</sup> |
|------------------------------|--------|-------|------------------|-------|----------|---------------------|------------------------|--------------------|---------------------|------------------|------------------|
| Volatile organics-8260b/BTEX | ---    |       | ---              |       | 11/08/01 | 8260b               | ---                    | ---                | ---                 | ---              | ---              |
| Benzene                      | <1     | µg/L  | 1                | <1    | 11/08/01 | 8260b               | ---                    | 1.6                | 95.6                | 95               | 92.7             |
| Ethylbenzene                 | <1     | µg/L  | 1                | <1    | 11/08/01 | 8260b               | ---                    | 1.7                | 92.6                | 93.5             | 89.8             |
| m,p-Xylenes                  | <1     | µg/L  | 1                | <1    | 11/08/01 | 8260b               | ---                    | 1.2                | 95.7                | 96               | 92.7             |
| o-Xylene                     | <1     | µg/L  | 1                | <1    | 11/08/01 | 8260b               | ---                    | 2.4                | 96.7                | 96.5             | 94.1             |
| Toluene                      | <1     | µg/L  | 1                | <1    | 11/08/01 | 8260b               | ---                    | 1.7                | 103.4               | 98.5             | 98.8             |

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Respectfully Submitted,

*Richard Laster*

Richard Laster

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Client: Environmental Tech Group  
Attn: Ken Dutton

Project ID: Darr Angell #3 EOT 2059C  
Sample Name: MW 7

Report#/Lab ID#: 121890  
Sample Matrix: water

## REPORT OF SURROGATE RECOVERY

| Surrogate Compound    | Method | Recovery | Recovery Limit | Data Qualifiers |
|-----------------------|--------|----------|----------------|-----------------|
| 1,2-Dichloroethane-d4 | 8260b  | 109      | 80-120         | ---             |
| Toluene-d8            | 8260b  | 92.7     | 88-110         | ---             |

Data Qualifiers: D= Surrogates diluted and X= Surrogates outside advisory recovery limits.



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Client: Environmental Tech Group

Attn: Ken Dutton

Address: 2540 W. Marland  
Hobbs

Nm 88240

Phone: 505 397-4882 FAX: 505 397-4701

Report#/Lab ID#: 121891 Report Date: 11/15/01

Project ID: Darr Angell #3 EOT 2059C

Sample Name: MW 8

Sample Matrix: water

Date Received: 11/02/2001 Time: 09:30

Date Sampled: 10/30/2001 Time: 15:50

#### REPORT OF ANALYSIS

| Parameter                    | Result | Units |
|------------------------------|--------|-------|
| Volatile organics-8260b/BTEX | ---    |       |
| Benzene                      | 8.34   | µg/L  |
| Ethylbenzene                 | 43.9   | µg/L  |
| m,p-Xylenes                  | 30.4   | µg/L  |
| o-Xylene                     | 5.07   | µg/L  |
| Toluene                      | <1     | µg/L  |

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

| Data Qual <sup>7</sup> | Prec. <sup>2</sup> | Recov. <sup>3</sup> | CCV <sup>4</sup> | LCS <sup>4</sup> |
|------------------------|--------------------|---------------------|------------------|------------------|
| ---                    | ---                | ---                 | ---              | ---              |
| ---                    | 1.6                | 95.6                | 95               | 92.7             |
| ---                    | 1.7                | 92.6                | 93.5             | 89.8             |
| ---                    | 1.2                | 95.7                | 96               | 92.7             |
| ---                    | 2.4                | 96.7                | 96.5             | 94.1             |
| ---                    | 1.7                | 103.4               | 98.5             | 98.8             |

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*Richard Laster*

Richard Laster

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Client: Environmental Tech Group  
Attn: Ken Dutton

Project ID: Darr Angell #3 EOT 2059C  
Sample Name: MW 8

Report#/Lab ID#: 121891  
Sample Matrix: water

## **REPORT OF SURROGATE RECOVERY**

| Surrogate Compound    | Method | Recovery | Recovery Limit | Data Qualifiers |
|-----------------------|--------|----------|----------------|-----------------|
| 1,2-Dichloroethane-d4 | 8260b  | 107      | 80-120         | ---             |
| Toluene-d8            | 8260b  | 94.8     | 88-110         | ---             |

Data Qualifiers: D= Surrogates diluted and X= Surrogates outside advisory recovery limits.



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Client: Environmental Tech Group

Attn: Ken Dutton

Address: 2540 W. Marland

Hobbs

Nm 88240

Phone: 505 397-4882 FAX: 505 397-4701

Report#/Lab ID#: 121892 Report Date: 11/15/01

Project ID: Darr Angell #3 EOT 2059C

Sample Name: MW 9

Sample Matrix: water

Date Received: 11/02/2001 Time: 09:30

Date Sampled: 10/30/2001 Time: 16:20

#### REPORT OF ANALYSIS

#### QUALITY ASSURANCE DATA

| Parameter                    | Result | Units | RQL <sup>5</sup> | Blank | Date     | Method <sup>6</sup> | Data Qual <sup>7</sup> | Prec. <sup>2</sup> | Recov. <sup>3</sup> | CCV <sup>4</sup> | LCS <sup>4</sup> |
|------------------------------|--------|-------|------------------|-------|----------|---------------------|------------------------|--------------------|---------------------|------------------|------------------|
| Volatile organics-8260b/BTEX | ---    |       | ---              |       | 11/08/01 | 8260b               | ---                    | ---                | ---                 | ---              | ---              |
| Benzene                      | <1     | µg/L  | 1                | <1    | 11/08/01 | 8260b               | ---                    | 1.6                | 95.6                | 95               | 92.7             |
| Ethylbenzene                 | <1     | µg/L  | 1                | <1    | 11/08/01 | 8260b               | ---                    | 1.7                | 92.6                | 93.5             | 89.8             |
| m,p-Xylenes                  | <1     | µg/L  | 1                | <1    | 11/08/01 | 8260b               | ---                    | 1.2                | 95.7                | 96               | 92.7             |
| o-Xylene                     | <1     | µg/L  | 1                | <1    | 11/08/01 | 8260b               | ---                    | 2.4                | 96.7                | 96.5             | 94.1             |
| Toluene                      | <1     | µg/L  | 1                | <1    | 11/08/01 | 8260b               | ---                    | 1.7                | 103.4               | 98.5             | 98.8             |

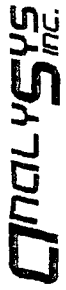
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Richard Laster

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Client: Environmental Tech Group  
Attn: Ken Dutton

Project ID: Dar Angell #3 EOT 2059C  
Sample Name: MW 9

Report#/Lab ID#: 121892  
Sample Matrix: water

REPORT OF SURROGATE RECOVERY

| Surrogate Compound    | Method | Recovery | Recovery Limit | Data Qualifiers |
|-----------------------|--------|----------|----------------|-----------------|
| 1,2-Dichloroethane-d4 | 8260b  | 112      | 80-120         | ---             |
| Toluene-d8            | 8260b  | 93.5     | 88-110         | ---             |

Data Qualifiers: D= Surrogates diluted and X= Surrogates outside advisory recovery limits.





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Client: Environmental Tech Group

Attn: Ken Dutton

Address: 2540 W. Marland

Hobbs Nm 88240

Phone: 505 397-4882 FAX: 505 397-4701

Report# / Lab ID#: 121893 Report Date: 11/15/01

Project ID: Dam Angell #3 EOT 2059C

Sample Name: MW 10

Sample Matrix: water

Date Received: 11/02/2001 Time: 09:30

Date Sampled: 10/30/2001 Time: 16:35

#### REPORT OF ANALYSIS

| Parameter                    | Result | Units | RQL <sup>5</sup> | Blank | Date     | Method <sup>6</sup> | Data Qual <sup>7</sup> | Prec. <sup>2</sup> | Recov. <sup>3</sup> | CCV <sup>4</sup> | LCS <sup>4</sup> |
|------------------------------|--------|-------|------------------|-------|----------|---------------------|------------------------|--------------------|---------------------|------------------|------------------|
| Volatile organics-8260b/BTEX | ---    | ---   | ---              | ---   | 11/08/01 | 8260b               | ---                    | ---                | ---                 | ---              | ---              |
| Benzene                      | 596    | µg/L  | 1                | <1    | 11/08/01 | 8260b               | ---                    | 1.6                | 95.6                | 95               | 92.7             |
| Ethylbenzene                 | 1.61   | µg/L  | 1                | <1    | 11/08/01 | 8260b               | ---                    | 1.7                | 92.6                | 93.5             | 89.8             |
| m,p-Xylenes                  | 70.9   | µg/L  | 1                | <1    | 11/08/01 | 8260b               | ---                    | 1.2                | 95.7                | 96               | 92.7             |
| o-Xylene                     | <1     | µg/L  | 1                | <1    | 11/08/01 | 8260b               | ---                    | 2.4                | 96.7                | 96.5             | 94.1             |
| Toluene                      | <1     | µg/L  | 1                | <1    | 11/08/01 | 8260b               | ---                    | 1.7                | 103.4               | 98.5             | 98.8             |

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

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Client: Environmental Tech Group  
Attn: Ken Dutton

Project ID: Data Angell #3 EOT 2059C  
Sample Name: MW 10

Report#/Lab ID#: 121893  
Sample Matrix: water

## REPORT OF SURROGATE RECOVERY

| Surrogate Compound    | Method | Recovery | Recovery Limit | Data Qualifiers |
|-----------------------|--------|----------|----------------|-----------------|
| 1,2-Dichloroethane-d4 | 8260b  | 112      | 80-120         | ---             |
| Toluene-d8            | 8260b  | 93.4     | 88-110         | ---             |

Data Qualifiers: D= Surrogates diluted and X= Surrogates outside advisory recovery limits.

**Client:** Environmental Tech Group

**Attn:** Ken Dutton

**Address:** 2540 W. Marland  
Hobbs

Nm 88240

**Phone:** 505 397-4882 **FAX:** 505 397-4701

**Report#** Lab ID#: 121894 **Report Date:** 11/15/01

**Project ID:** Darr Angell #3 EOT 2059C

**Sample Name:** MW 11

**Sample Matrix:** water

**Date Received:** 11/02/2001 **Time:** 09:30

**Date Sampled:** 10/30/2001 **Time:** 17:00

## REPORT OF ANALYSIS

| Parameter                    | Result | Units | RQL <sup>5</sup> | Blank | Date     | Method <sup>6</sup> | Data Qual <sup>7</sup> | Prec. <sup>2</sup> | Recov. <sup>3</sup> | CCV <sup>4</sup> | LCS <sup>4</sup> |
|------------------------------|--------|-------|------------------|-------|----------|---------------------|------------------------|--------------------|---------------------|------------------|------------------|
| Volatile organics-8260b/BTEX | ---    | ---   | ---              | ---   | 11/09/01 | 8260b               | ---                    | ---                | ---                 | ---              | ---              |
| Benzene                      | 3.82   | µg/L  | 1                | <1    | 11/09/01 | 8260b               | ---                    | 1.6                | 95.6                | 95               | 92.7             |
| Ethylbenzene                 | <1     | µg/L  | 1                | <1    | 11/09/01 | 8260b               | ---                    | 1.7                | 92.6                | 93.5             | 89.8             |
| m,p-Xylenes                  | <1     | µg/L  | 1                | <1    | 11/09/01 | 8260b               | J                      | 1.2                | 95.7                | 96               | 92.7             |
| o-Xylene                     | <1     | µg/L  | 1                | <1    | 11/09/01 | 8260b               | ---                    | 2.4                | 96.7                | 96.5             | 94.1             |
| Toluene                      | <1     | µg/L  | 1                | <1    | 11/09/01 | 8260b               | ---                    | 1.7                | 103.4               | 98.5             | 98.8             |

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

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Client: Environmental Tech Group  
Attn: Ken Dutton

Project ID: Darr Angell #3 EOT 2059C  
Sample Name: MW 11

Report#/Lab ID#: 121894  
Sample Matrix: water

**REPORT OF SURROGATE RECOVERY**

| Surrogate Compound    | Method | Recovery | Recovery Limit | Data Qualifiers |
|-----------------------|--------|----------|----------------|-----------------|
| 1,2-Dichloroethane-d4 | 8260b  | 105      | 80-120         | ---             |
| Toluene-d8            | 8260b  | 94.2     | 88-110         | ---             |

Data Qualifiers: D= Surrogates diluted and X= Surrogates outside advisory recovery limits.

## Exceptions Report:

|                                      |               |                  |
|--------------------------------------|---------------|------------------|
| Report #/Lab ID#: 121894             | Matrix: water | Attn: Ken Dutton |
| Client: Environmental Tech Group     |               |                  |
| Project ID: Darr Angell #3 EOT 2059C |               |                  |
| Sample Name: MW 11                   |               |                  |

### Sample Temperature/Condition <=6°C

The typical sample temperature criteria (except for metals by ICP, GFAA and AA and a very few other tests) is <= 6°C. Possible exceptions include samples submitted to laboratory within such a short time after sampling that cooling measures used in the field and during transport had insufficient time to achieve desired temperatures in the samples (see sample collection and sample receipt times) and samples where the temperature could not be measured due to sample submission in a manner precluding temperature measurement without impacting sample integrity (ex. in a bottle with no cooler).

### Sample Bottles & Preservation

- ☒ Sample received in appropriate container(s) and appear to be appropriately preserved.  
☐ Sample received in appropriate container(s). State of sample preservation unknown.  
☐ Sample received in inappropriate container(s) and/or with unknown state of preservation.

### J flag Discussion

A J flag data qualifier indicates (as required under TNRRCC-TRRP reporting requirements) that the raw calculated analyte concentration in the sample (uncorrected for background levels/blanks and other potential sources of sampling and analytical contamination), though less than the Reported Quantitation Limit (RQL) is greater than the Detection Limit. Because the reported result is below the quantitation limit for this project/sample (or test procedure), GC/MS organics results may or MAY NOT have been verified as to the presence and relative ratio of target ions (eg. the material causing the J flag "hit" in such situations may be nothing more than background ion-fragment noise.)

### Comments pertaining to Data Qualifiers and QC data:

| Parameter   | Qualif | Comment                      |
|-------------|--------|------------------------------|
| m,p-Xylenes | J      | See J-flag discussion above. |

### Notes:



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Client: Environmental Tech Group

Attn: Ken Dutton

Address: 2540 W. Marland  
Hobbs

Nm 88240

Phone: 505 397-4882 FAX: 505 397-4701

Report# / Lab ID#: 121895 Report Date: 11/15/01

Project ID: Darr Angell #3 EOT 2059C

Sample Name: MW 12

Sample Matrix: water

Date Received: 11/02/2001 Time: 09:30

Date Sampled: 10/30/2001 Time: 17:15

#### REPORT OF ANALYSIS

| Parameter                    | Result | Units |
|------------------------------|--------|-------|
| Volatile organics-8260b/BTEX | ---    |       |
| Benzene                      | 2.24   | µg/L  |
| Ethylbenzene                 | <1     | µg/L  |
| m,p-Xylenes                  | <1     | µg/L  |
| o-Xylene                     | <1     | µg/L  |
| Toluene                      | <1     | µg/L  |

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

| Method <sup>6</sup> | Data Qual <sup>7</sup> | Prec. <sup>2</sup> | Recov. <sup>3</sup> | CCV <sup>4</sup> | LCS <sup>4</sup> |
|---------------------|------------------------|--------------------|---------------------|------------------|------------------|
| 8260b               | ---                    | ---                | ---                 | ---              | ---              |
| 8260b               | ---                    | 17.9               | 111                 | 89.1             | 89.5             |
| 8260b               | ---                    | 0.9                | 92.7                | 92.9             | 91.1             |
| 8260b               | ---                    | 1.1                | 96.9                | 96.7             | 96.2             |
| 8260b               | ---                    | 1.7                | 97.8                | 96.8             | 96.8             |
| 8260b               | ---                    | 18                 | 118.9               | 95.9             | 96.4             |

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Richard Laster

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Client: Environmental Tech Group  
Attn: Ken Dutton

Project ID: Darr Angell #3 EOT 2059C  
Sample Name: MW 12

Report#/Lab ID#: 121895  
Sample Matrix: water

## REPORT OF SURROGATE RECOVERY

| Surrogate Compound    | Method | Recovery | Recovery Limit | Data Qualifiers |
|-----------------------|--------|----------|----------------|-----------------|
| 1,2-Dichloroethane-d4 | 8260b  | 103      | 80-120         | ---             |
| Toluene-d8            | 8260b  | 92.7     | 88-110         | ---             |

Data Qualifiers: D= Surrogates diluted and X= Surrogates outside advisory recovery limits.



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Client: Environmental Tech Group  
Attn: Ken Dutton  
Address: 2540 W. Marland  
Hobbs NM 88240  
Phone: 505 397-4882 FAX: 505 397-4701

Report#/Lab ID#: 121896 Report Date: 11/15/01  
Project ID: Darr Angell #3 EOT 2059C  
Sample Name: Mw 13  
Sample Matrix: water  
Date Received: 11/02/2001 Time: 09:30  
Date Sampled: 10/30/2001 Time: 13:40

#### REPORT OF ANALYSIS

| Parameter                    | Result | Units |
|------------------------------|--------|-------|
| Volatile organics-8260b/BTEX | ---    |       |
| Benzene                      | 3      | µg/L  |
| Ethylbenzene                 | <1     | µg/L  |
| m,p-Xylenes                  | <1     | µg/L  |
| o-Xylene                     | <1     | µg/L  |
| Toluene                      | <1     | µg/L  |

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

| Method <sup>6</sup> | Date     | Blank | RQL <sup>5</sup> | Data Qual <sup>7</sup> | Prec. <sup>2</sup> | Recov. <sup>3</sup> | CCV <sup>4</sup> | LCS <sup>4</sup> |
|---------------------|----------|-------|------------------|------------------------|--------------------|---------------------|------------------|------------------|
| 8260b               | 11/12/01 |       | ---              | ---                    | ---                | ---                 | ---              | ---              |
| 8260b               | 11/12/01 | <1    | 1                | ---                    | 17.9               | 111                 | 89.1             | 89.5             |
| 8260b               | 11/12/01 | <1    | 1                | ---                    | 0.9                | 92.7                | 92.9             | 91.1             |
| 8260b               | 11/12/01 | <1    | 1                | ---                    | 1.1                | 96.9                | 96.7             | 96.2             |
| 8260b               | 11/12/01 | <1    | 1                | ---                    | 1.7                | 97.8                | 96.8             | 96.8             |
| 8260b               | 11/12/01 | <1    | 1                | ---                    | 18                 | 118.9               | 95.9             | 96.4             |

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*Richard Laster*

Richard Laster

1. Quality assurance data is for the sample batch 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 Laboratory Control Sample (LCS) results are expressed as the percent (%) recovery of analyte from a known standard or matrix. 5. Reporting Quantitation Limits (RQL), typically at or above the Practical Quantitation Limit (PQL) of the analytical method. 6. Method numbers typically denote USEPA procedures. Less than (" $<$ ") values reflect nominal quantitation limits adjusted for any required dilutions. 7. Data Qualifiers are J = analyte potentially present between the PQL and the MDL, B = Analyte detected in associated method blank(s), S1 = MS and/or MSD recovery exceed advisory limits, S2 = Post digestion spike (PDS) recovery exceeds advisory limit, S3 = MS and/or MSD and PDS recoveries exceed advisory limits, P = Precision higher than advisory limit, M = Matrix interference.



Report#/Lab ID#: 121896  
Sample Matrix: water

Project ID: Darr Angell #3 EOT 2059C  
Sample Name: Mw 13

Client: Environmental Tech Group  
Attn: Ken Dutton

## REPORT OF SURROGATE RECOVERY

| Surrogate Compound    | Method | Recovery | Recovery Limit | Data Qualifiers |
|-----------------------|--------|----------|----------------|-----------------|
| 1,2-Dichloroethane-d4 | 8260b  | 103      | 80-120         | ---             |
| Toluene-d8            | 8260b  | 93.4     | 88-110         | ---             |

Data Qualifiers: D= Surrogates diluted and X= Surrogates outside advisory recovery limits.

**Client:** Environmental Tech Group  
**Attn:** Ken Dutton  
**Address:** 2540 W. Marland  
Hobbs Nm 88240

**Phone:** 505 397-4882 **FAX:** 505 397-4701

**Report#/Lab ID#:** 121897 **Report Date:** 11/15/01  
**Project ID:** Darr Angell #3 EOT 2059C  
**Sample Name:** EB 1  
**Sample Matrix:** water  
**Date Received:** 11/02/2001 **Time:** 09:30  
**Date Sampled:** 10/30/2001 **Time:** 17:30

## REPORT OF ANALYSIS

| Parameter                     | Result | Units | RQL <sup>5</sup> | Blank | Date     | Method <sup>6</sup> | Data Qual <sup>7</sup> | Prec. <sup>2</sup> | Recov. <sup>3</sup> | CCV <sup>4</sup> | LCS <sup>4</sup> |
|-------------------------------|--------|-------|------------------|-------|----------|---------------------|------------------------|--------------------|---------------------|------------------|------------------|
| Volatiles organics-8260b/BTEX | ---    |       | ---              |       | 11/09/01 | 8260b               | ---                    | ---                | ---                 | ---              | ---              |
| Benzene                       | <1     | µg/L  | 1                | <1    | 11/09/01 | 8260b               | ---                    | 9.5                | 98.5                | 98.9             | 102.4            |
| Ethylbenzene                  | <1     | µg/L  | 1                | <1    | 11/09/01 | 8260b               | ---                    | 0.9                | 90.5                | 94.9             | 93.1             |
| m,p-Xylenes                   | <1     | µg/L  | 1                | <1    | 11/09/01 | 8260b               | ---                    | 0.7                | 94.9                | 98.2             | 97.2             |
| o-Xylene                      | <1     | µg/L  | 1                | <1    | 11/09/01 | 8260b               | ---                    | 0.6                | 97.7                | 98.5             | 98.8             |
| Toluene                       | <1     | µg/L  | 1                | <1    | 11/09/01 | 8260b               | ---                    | 5.8                | 107.7               | 102.3            | 110.8            |

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

This analytical report is respectfully submitted by AnalySys, Inc. The enclosed results have been carefully reviewed and, to the best of my knowledge, the analytical results are consistent with AnalySys, Inc.'s Quality Assurance/Quality Control Program. © Copyright 2000, AnalySys, Inc., Austin, TX. All rights reserved. No part of this publication may be reproduced or transmitted in any form or by any means without the express written consent of AnalySys, Inc.

Respectfully Submitted,

*Richard Laster*

Richard Laster

1. Quality assurance data is for the sample batch 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 Laboratory Control Sample (LCS) results are expressed as the percent (%) recovery of analyte from a known standard or matrix. 5. Reporting Quantitation Limits (RQL), typically at or above the Practical Quantitation Limit (PQL) of the analytical method. 6. Method numbers typically denote USEPA procedures. Less than ("<") values reflect nominal quantitation limits adjusted for any required dilutions. 7. Data Qualifiers are J = analyte potentially present between the PQL and the MDL, B = Analyte detected in associated method blank(s), S1 = MS and/or MSD recovery exceed advisory limits, S2 = Post digestion spike (PDS) recovery exceeds advisory limit, S3 = MS and/or MSD and PDS recoveries exceed advisory limits, P = Precision higher than advisory limit, M = Matrix interference.



4221 Freidrich Lane, Suite 190, Austin, TX 78744 &  
2209 N. Padre Island Dr., Corpus Christi, TX 7840408  
(512) 444-5896 • FAX (512) 447-4766

Client: Environmental Tech Group  
Attn: Ken Dutton

Project ID: Darr Angell #3 EOT 2059C  
Sample Name: EB 1

Report#/Lab ID#: 121897  
Sample Matrix: water

# REPORT OF SURROGATE RECOVERY

| Surrogate Compound    | Method | Recovery | Recovery Limit | Data Qualifiers |
|-----------------------|--------|----------|----------------|-----------------|
| 1,2-Dichloroethane-d4 | 8260b  | 82.6     | 80-120         | ---             |
| Toluene-d8            | 8260b  | 88       | 88-110         | ---             |

Data Qualifiers: D= Surrogates diluted and X= Surrogates outside advisory recovery limits.

COC: 174

1 of 2

## CHAIN-OF-CUSTODY

## Send Reports To:

Company Name ETGIAddress 2540 W MANLANDCity HOUSTON State NM Zip 88240ATTN: KEN DUTTONPhone (505) 877-4122 Fax (505) 877-4701

## Bill to (if different):

Company Name ETI

Address \_\_\_\_\_

City \_\_\_\_\_ State \_\_\_\_\_ Zip \_\_\_\_\_

ATTN: \_\_\_\_\_

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

ANALYSYS  
INC.

4221 Freidrich Lane, Suite 190, Austin, TX 78744

Phone: (512) 441-5896

Fax: (512) 447-4766

Rush Status (must be confirmed with lab mgr.):

Project Name/PO#: Dec. Angel #3 Sampler: Manuelo Camps

EOT 2039C

## Analyses Requested (1)

Please attach explanatory information as required

| Client Sample No.<br>Description/Identification | Date<br>Sampled | Time<br>Sampled | No. of<br>Containers | Soil | Water | Waste | Lab I.D. #<br>(Lab only) | Comments |
|-------------------------------------------------|-----------------|-----------------|----------------------|------|-------|-------|--------------------------|----------|
| 121884                                          | 10-30-01        | 1450            | 2                    |      |       | X     | 121884                   |          |
| 121885                                          |                 | 1645            |                      |      |       |       | 121885                   |          |
| 121886                                          |                 | 1645            |                      |      |       |       | 121886                   |          |
| 121887                                          |                 | 1430            |                      |      |       |       | 121887                   |          |
| 121888                                          |                 | 1445            |                      |      |       |       | 121888                   |          |
| 121889                                          |                 | 1510            |                      |      |       |       | 121889                   |          |
| 121890                                          |                 | 1535            |                      |      |       |       | 121890                   |          |
| 121891                                          |                 | 1550            |                      |      |       |       | 121891                   |          |
| 121892                                          |                 | 1620            |                      |      |       |       | 121892                   |          |
| 121893                                          |                 | 1635            |                      |      |       |       | 121893                   |          |

(Unless specifically requested otherwise on this Chain-of-custody and/or attached documentation, all analyses will be conducted using AST's method of choice and all data will be reported to AST's normal reporting home (HDI/POI). 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, AST will default to Priority Methods on AST's HDI list as AST's option. Specific compound lists must be supplied for all GC procedures.

Temp 00°C

| Sample Relinquished By |             |         | Sample Received By |             |          |
|------------------------|-------------|---------|--------------------|-------------|----------|
| Name                   | Affiliation | Date    | Name               | Affiliation | Date     |
| Manuelo Camps          |             | 11-1-01 | Manuelo Camps      | AST         | 11/02/01 |
|                        |             |         |                    |             | 9:30     |

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

**SHY INC.**  
**לשכת שיווק**

**Bill to (if different):**

Company Name Cost

---

---

Address

City \_\_\_\_\_ State \_\_\_\_\_ Zip \_\_\_\_\_

ATTN: \_\_\_\_\_

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

12

Michael L. Lerner

7) 6506 207

[illegible]

(11) Unless 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 limits (MRL/PL/CL). For (VCA)S 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 ASI's HSL list at ASI's option. Specific compound lists must be supplied for all OC procedures.

| Sample Relinquished By |             |         | Sample Received By |             |          |
|------------------------|-------------|---------|--------------------|-------------|----------|
| Name                   | Affiliation | Date    | Name               | Affiliation | Date     |
| Marcus Corp            |             | 11-1-01 | Michael Humphrey   | ASL         | 11/02/01 |

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

**Client:** Environmental Tech Group  
**Attn:** Ken Dutton  
**Address:** 2510 W. Marland  
Hobbs  
NM 88240  
**Phone:** 505 397-4882 **FAX:** 505 397-4701

**Report#/Lab ID#:** 126122 **Report Date:** 03/01/02  
**Project ID:** Darr Angell 4 EOT 2075C  
**Sample Name:** MW 1  
**Sample Matrix:** water  
**Date Received:** 02/26/2002 **Time:** 09:37  
**Date Sampled:** 02/18/2002 **Time:** 10:40

## REPORT OF ANALYSIS

| Parameter                    | Result | Units | RQL <sup>5</sup> | Blank | Date     | Method <sup>6</sup> | Data Qual <sup>7</sup> | Prec. <sup>2</sup> | Recov. <sup>3</sup> | CCV <sup>4</sup> | LCS <sup>4</sup> |
|------------------------------|--------|-------|------------------|-------|----------|---------------------|------------------------|--------------------|---------------------|------------------|------------------|
| Volatile organics 8260b/BTEX | ---    |       | ---              |       | 02/28/02 | 8260b               | ---                    | ---                | ---                 | ---              | ---              |
| Benzene                      | 1.76   | µg/L  | 1                | <1    | 02/28/02 | 8260b               | ---                    | 2.4                | 108.1               | 102.7            | 102.5            |
| Ethylbenzene                 | <1     | µg/L  | 1                | <1    | 02/28/02 | 8260b               | J                      | 1.3                | 96.9                | 96.1             | 98.1             |
| m,p Xylenes                  | <1     | µg/L  | 1                | <1    | 02/28/02 | 8260b               | ---                    | 2.5                | 100.2               | 99.9             | 99.5             |
| o-Xylene                     | <1     | µg/L  | 1                | <1    | 02/28/02 | 8260b               | ---                    | 2.1                | 96.8                | 94.9             | 96.5             |
| Toluene                      | <1     | µg/L  | 1                | <1    | 02/28/02 | 8260b               | ---                    | 3.5                | 118.8               | 112              | 109.3            |

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

This analytical report is respectfully submitted by AnalySys, Inc. The enclosed results have been carefully reviewed and, to the best of my knowledge, the analytical results are consistent with AnalySys, Inc.'s Quality Assurance Quality Control Program. © Copyright 2000, AnalySys, Inc., Austin, TX. All rights reserved. No part of this publication may be reproduced or transmitted in any form or by any means without the express written consent of AnalySys, Inc.

Respectfully Submitted,

*Richard Laster*

Richard Laster

1. Quality assurance data is for the sample batch 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 Laboratory Control Sample (LCS) results are expressed as the percent (%) recovery of analyte from a known standard or matrix. 5. Reporting Quantitation Limits (RQL), typically at or above the Practical Quantitation Limit (PQL) of the analytical method. 6. Method numbers typically denote USEPA procedures. Less than (" $<$ ") values reflect nominal quantitation limits adjusted for any required dilutions. 7. Data Qualifiers are J = analyte potentially present between the PQL and the MDL, B = Analyte detected in associated method blank(s). S1 =MS and/or MSD recovery exceed advisory limits. S2 = Post digestion spike (PDS) recovery exceeds advisory limit. S3 =MS and/or MSD and/or PDS recoveries exceed advisory limits. P = Precision higher than advisory limit. M =Matrix interference.

|                                                      |                                                          |                                                 |
|------------------------------------------------------|----------------------------------------------------------|-------------------------------------------------|
| Client: Environmental Tech Group<br>Attn: Ken Dutton | Project ID: Darr Angell 4 EOT 2075C<br>Sample Name: MW 1 | Report#/Lab ID#: 126122<br>Sample Matrix: water |
|------------------------------------------------------|----------------------------------------------------------|-------------------------------------------------|

## REPORT OF SURROGATE RECOVERY

| Surrogate Compound     | Method | Recovery | Recovery Limit | Data Qualifiers |
|------------------------|--------|----------|----------------|-----------------|
| 1,2 Dichloroethane -d4 | 8260b  | 104      | 80-120         | ---             |
| Toluene -d8            | 8260b  | 91.9     | 88-110         | ---             |

Data Qualifiers: D - Surrogates diluted and X - Surrogates outside advisory recovery limits.

# Exceptions Report:

|                                     |               |                  |
|-------------------------------------|---------------|------------------|
| Report #/Lab ID#: 126122            | Matrix: water | Attn: Ken Dutton |
| Client: Environmental Tech Group    |               |                  |
| Project ID: Darr Angell 4 EOT 2075C |               |                  |
| Sample Name: MW 1                   |               |                  |

## Sample Temperature/Condition <= -6°C

The typical sample temperature criteria (except for metals by ICP, GFAA and AA and a very few other tests) is <= 6°C. Possible exceptions include samples submitted to laboratory within such a short time after sampling that cooling measures used in the field and during transport had insufficient time to achieve desired temperatures in the samples (see sample collection and sample receipt times) and samples where the temperature could not be measured due to sample submission in a manner precluding temperature measurement without impacting sample integrity (ex. in a bottle with no cooler).

## Sample Bottles & Preservation

- ☒ Sample received in appropriate container(s) and appear to be appropriately preserved.
- ☐ Sample received in appropriate container(s). State of sample preservation unknown.
- ☐ Sample received in inappropriate container(s) and/or with unknown state of preservation.

## J Flag Discussion

A J flag data qualifier indicates (as required under TNRCC-TRRP reporting requirements) that the raw calculated analyte concentration in the sample (uncorrected for background levels, blanks and other potential sources of sampling and analytical contamination), though less than the Reported Quantitation Limit (RQL) is greater than the Detection Limit. Because the reported result is below the quantitation limit for this project/sample (or test procedure), GC/MS organics results may or MAY NOT have been verified as to the presence and relative ratio of target ions (eg. the material causing the J flag "hit" in such situations may be nothing more than background ion-fragment noise.)

## Comments pertaining to Data Qualifiers and QC data:

| Parameter    | Qualif | Comment                      |
|--------------|--------|------------------------------|
| Phy. & noise | J      | See J-flag discussion above. |

## Notes:





4221 Freidrich Lane, Suite 190, Austin, TX 78744 &  
2209 N. Padre Island Dr., Corpus Christi, TX 78408  
(512) 444-5896 • FAX (512) 447-4766

Client: Environmental Tech Group  
Attn: Ken Dutton  
Address: 2540 W. Marland  
Hobbs

Nim 88240

Phone: 505 397-4882 FAX: 505 397-4701

Report#/Lab ID#: 126123 Report Date: 03/01/02

Project ID: Darr Angell 4 EOT 2075C

Sample Name: MW 2

Sample Matrix: water

Date Received: 02/26/2002 Time: 09:37

Date Sampled: 02/18/2002 Time: 12:36

#### REPORT OF ANALYSIS

| Parameter                    | Result | Units | RQL <sup>5</sup> | Blank | Date     | Method <sup>6</sup> | Data Qual <sup>7</sup> | Prec. <sup>2</sup> | Recov. <sup>3</sup> | CCV <sup>4</sup> | LCS <sup>4</sup> |
|------------------------------|--------|-------|------------------|-------|----------|---------------------|------------------------|--------------------|---------------------|------------------|------------------|
| Volatile organics-8260b/BTEX | ---    |       | ---              |       | 02/27/02 | 8260b               | ---                    | ---                | ---                 | ---              | ---              |
| Benzene                      | <1     | µg/L  | 1                | <1    | 02/27/02 | 8260b               | J                      | 2.4                | 108.1               | 102.7            | 102.5            |
| Ethylbenzene                 | <1     | µg/L  | 1                | <1    | 02/27/02 | 8260b               | ---                    | 1.3                | 96.9                | 96.1             | 98.1             |
| m,p-Xylenes                  | <1     | µg/L  | 1                | <1    | 02/27/02 | 8260b               | ---                    | 2.5                | 100.2               | 99.9             | 99.5             |
| o-Xylene                     | <1     | µg/L  | 1                | <1    | 02/27/02 | 8260b               | ---                    | 2.1                | 96.8                | 94.9             | 96.5             |
| Toluene                      | <1     | µg/L  | 1                | <1    | 02/27/02 | 8260b               | ---                    | 3.5                | 118.8               | 112              | 109.3            |

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Respectfully Submitted,

*Richard Laster*

Richard Laster

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

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Report#/Lab ID#: 126123  
Sample Matrix: water

Project ID: Darr Angell 4 EOT 2075C  
Sample Name: MW 2

Client: Environmental Tech Group  
Attn: Ken Dutton

## REPORT OF SURROGATE RECOVERY

| Surrogate Compound    | Method | Recovery | Recovery Limit | Data Qualifiers |
|-----------------------|--------|----------|----------------|-----------------|
| 1,2 Dichloroethane-d4 | 8260b  | 102      | 80-120         | ---             |
| Toluene d8            | 8260b  | 90.8     | 88-110         | ---             |

Data Qualifiers: D - Surrogates diluted and X - Surrogates outside advisory recovery limits.

### Exceptions Report:

Report #/Lab ID#: 126123 Matrix: water  
Client: Environmental Tech Group  
Project ID: Dar Angel 4 EOT 2075C  
Sample Name: MW 2

Attn: Ken Dutton

#### Sample Temperature/Condition <=6°C

The typical sample temperature criteria (except for metals by ICP, GFAA and AA and a very few other tests) is <= 6°C. Possible exceptions include samples submitted to laboratory within such a short time after sampling that cooling measures used in the field and during transport had insufficient time to achieve desired temperatures in the samples (see sample collection and sample receipt times) and samples where the temperature could not be measured due to sample submission in a manner precluding temperature measurement without impacting sample integrity (ex. in a bottle with no cooler).

#### Sample Bottles & Preservation

- ☒ Sample received in appropriate container(s) and appear to be appropriately preserved.  
☐ Sample received in appropriate container(s). State of sample preservation unknown.  
☐ Sample received in inappropriate container(s) and/or with unknown state of preservation.

#### J flag Discussion

A J flag data qualifier indicates (as required under TNRC/CT-TRRP reporting requirements) that the raw calculated analyte concentration in the sample (uncorrected for background levels/blanks and other potential sources of sampling and analytical contamination), though less than the Reported Quantitation Limit (RQL) is greater than the Detection Limit. Because the reported result is below the quantitation limit for this project/sample (or test procedure), GC/MS organics results may or MAY NOT have been verified as to the presence and relative ratio of target ions (eg. the material causing the J flag "hit" in such situations may be nothing more than background ion-fragment noise.)

#### Comments pertaining to Data Qualifiers and QC data:

| Parameter | Qualif | Comment                      |
|-----------|--------|------------------------------|
| Benzene   | J      | See J-flag discussion above. |

Notes:

**Client:** Environmental Tech Group  
**Attn:** Ken Dutton  
**Address:** 2540 W. Marland  
Hobbs Nm 88240  
**Phone:** 505 397 4882 **FAX:** 505 397-4701

**Report#/Lab ID#:** 126124 **Report Date:** 03/01/02  
**Project ID:** Dart Angell 4 EOT 2075C  
**Sample Name:** MW 3  
**Sample Matrix:** water  
**Date Received:** 02/26/2002 **Time:** 09:37  
**Date Sampled:** 02/18/2002 **Time:** 13:32

## REPORT OF ANALYSIS

| Parameter                    | Result | Units | RQL <sup>5</sup> | Blank | Date     | Method <sup>6</sup> | Data Qual <sup>7</sup> | Prec. <sup>2</sup> | Recov. <sup>3</sup> | CCV <sup>4</sup> | LCS <sup>4</sup> |
|------------------------------|--------|-------|------------------|-------|----------|---------------------|------------------------|--------------------|---------------------|------------------|------------------|
| Volatile organics-8260b/BTEX |        |       |                  |       | 02/27/02 | 8260b               | ---                    | ---                | ---                 | ---              | ---              |
| Benzene                      | 713    | µg/L  | 10               | <10   | 02/28/02 | 8260b               | ---                    | 2.4                | 108.1               | 102.7            | 102.5            |
| Ethylbenzene                 | <1     | µg/L  | 1                | <1    | 02/27/02 | 8260b               | J                      | 1.3                | 96.9                | 96.1             | 98.1             |
| m p-Xylenes                  | 56.9   | µg/L  | 1                | <1    | 02/27/02 | 8260b               | ---                    | 2.5                | 100.2               | 99.9             | 99.5             |
| o-Xylene                     | <1     | µg/L  | 1                | <1    | 02/27/02 | 8260b               | ---                    | 2.1                | 96.8                | 94.9             | 96.5             |
| Toluene                      | <1     | µg/L  | 1                | <1    | 02/27/02 | 8260b               | ---                    | 3.5                | 118.8               | 112              | 109.3            |

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

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Respectfully Submitted,

*Richard Laster*

Richard Laster

1. Quality assurance data is for the sample batch 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 (CV) and Laboratory Control Sample (LCS) results are expressed as the percent (%) recovery of analyte from a known standard or matrix. 5. Reporting Quantitation Limits (RQL), typically at or above the Practical Quantitation Limit (PQL) of the analytical method. 6. Method numbers typically denote USEPA procedures. Less than (" $<$ ") values reflect nominal quantitation limits adjusted for any required dilutions. 7. Data Qualifiers are J = analyte potentially present between the PQL and the MDL, B = Analyte detected in associated method blank(s). S1 =MS and/or MSD recovery exceed advisory limits. S2 =Post digestion spike (PDS) recovery exceeds advisory limit. S3 =MS and/or MSD and PDS recoveries exceed advisory limits. P = Precision higher than advisory limit. M =Matrix interference.

Report#/Lab ID#: 126124  
Sample Matrix: water

Project ID: Darr Angell 4 EOT 2075C  
Sample Name: MW 3

Client: Environmental Tech Group  
Attn: Ken Dutton

## **REPORT OF SURROGATE RECOVERY**

| Surrogate Compound    | Method | Recovery | Recovery Limit | Data Qualifiers |
|-----------------------|--------|----------|----------------|-----------------|
| 1,2-Dichloroethane d4 | 8260b  | 103      | 80-120         | ---             |
| Toluene-d8            | 8260b  | 91.2     | 88-110         | ---             |

Data Qualifiers: D - Surrogates diluted and X - Surrogates outside advisory recovery limits.

## Exceptions Report:

|                                   |               |                  |
|-----------------------------------|---------------|------------------|
| Report #/Lab ID#: 126124          | Matrix: water | Attn: Ken Dutton |
| Client: Environmental Tech Group  |               |                  |
| Project ID: Dar Angel 4 EOT 2075C |               |                  |
| Sample Name: MW 3                 |               |                  |

### Sample Temperature/Condition <= 6°C

The typical sample temperature criteria (except for metals by ICP, GFAA and AA and a very few other tests) is <= 6°C. Possible exceptions include samples submitted to laboratory within such a short time after sampling that cooling measures used in the field and during transport had insufficient time to achieve desired temperatures in the samples (see sample collection and sample receipt times) and samples where the temperature could not be measured due to sample submission in a manner precluding temperature measurement without impacting sample integrity (ex. in a bottle with no cooler).

### Sample Bottles & Preservation

- ☒ Sample received in appropriate container(s) and appear to be appropriately preserved.
- ☐ Sample received in appropriate container(s). State of sample preservation unknown.
- ☐ Sample received in inappropriate container(s) and/or with unknown state of preservation.

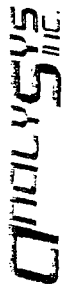
### J Flag Discussion

A J flag data qualifier indicates (as required under TNRCC-TRRP reporting requirements) that the raw calculated analyte concentration in the sample (uncorrected for background levels/blanks and other potential sources of sampling and analytical contamination), though less than the Reported Quantitation Limit (RQL) is greater than the Detection Limit. Because the reported result is below the quantitation limit for this project/sample (or test procedure), GC/MS organics results may or MAY NOT have been verified as to the presence and relative ratio of target ions (eg. the material causing the J flag "hit" in such situations may be nothing more than background ion-fragment noise.)

### Comments pertaining to Data Qualifiers and QC data:

| Parameter | Qualifier | Comment                      |
|-----------|-----------|------------------------------|
| Edlythene | J         | See J-flag discussion above. |

Notes:



4221 Freidrich Lane, Suite 190, Austin, TX 78744 &  
2209 N. Padre Island Dr., Corpus Christi, TX 78408  
(512) 444-5896 • FAX (512) 447-4766

Client: Environmental Tech Group

Attn: Ken Dutton

Address: 2540 W. Marland

Hobbs

Nm 88240

Phone: 505 397-4882 FAX: 505 397-4701

Report#/Lab ID#: 126125 Report Date: 03/01/02

Project ID: Darr Angell 4 EOT 2075C

Sample Name: MW 4

Sample Matrix: water

Date Received: 02/26/2002 Time: 09:37

Date Sampled: 02/18/2002 Time: 10:19

## REPORT OF ANALYSIS

| Parameter                    | Result | Units | RQL <sup>5</sup> | Blank | Date     | Method <sup>6</sup> | Data Qual <sup>7</sup> | Prec. <sup>2</sup> | Recov. <sup>3</sup> | CCV <sup>4</sup> | LCS <sup>4</sup> |
|------------------------------|--------|-------|------------------|-------|----------|---------------------|------------------------|--------------------|---------------------|------------------|------------------|
| Volatile organics 8260b/BTEX | ---    |       | ---              |       | 02/27/02 | 8260b               | ---                    | ---                | ---                 | ---              | ---              |
| Benzene                      | <1     | µg/L  | 1                | <1    | 02/27/02 | 8260b               | J                      | 2.4                | 108.1               | 102.7            | 102.5            |
| Ethylbenzene                 | <1     | µg/L  | 1                | <1    | 02/27/02 | 8260b               | ---                    | 1.3                | 96.9                | 96.1             | 98.1             |
| m-p-Xylenes                  | <1     | µg/L  | 1                | <1    | 02/27/02 | 8260b               | ---                    | 2.5                | 100.2               | 99.9             | 99.5             |
| o-Xylene                     | <1     | µg/L  | 1                | <1    | 02/27/02 | 8260b               | ---                    | 2.1                | 96.8                | 94.9             | 96.5             |
| Toluene                      | <1     | µg/L  | 1                | <1    | 02/27/02 | 8260b               | ---                    | 3.5                | 118.8               | 112              | 109.3            |

This analytical report is respectfully submitted by AnalySys, Inc. The enclosed results have been carefully reviewed and, to the best of my knowledge, the analytical results are consistent with AnalySys, Inc.'s Quality Assurance/Quality Control Program. © Copyright 2000 AnalySys, Inc., Austin, TX. All rights reserved. No part of this publication may be reproduced or transmitted in any form or by any means without the express written consent of AnalySys, Inc.

Respectfully Submitted,

*Richard Laster*

Richard Laster

1. Quality assurance data is for the sample batch 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 Laboratory Control Sample (LCS) results are expressed as the percent (%) recovery of analyte from a known standard or matrix. 5. Reporting Quantitation Limits (RQL), typically at or above the Practical Quantitation Limit (PQL) of the analytical method. 6. Method numbers typically denote USEPA procedures. Less than (" $<$ ") values reflect nominal quantitation limits adjusted for any required dilutions. 7. Data Qualifiers are: J = analyte potentially present between the PQL and the MDL; B = Analyte detected in associated method blank(s). S1 = MS and/or MSD recovery exceed advisory limits. S2 = Post digestion spike (PDS) recovery exceeds advisory limit. S3 = MS and/or MSD and PDS recoveries exceed advisory limits. P = Precision higher than advisory limit. M = Matrix interference.

Report#/Lab ID#: 126125  
Sample Matrix: water

Project ID: Darr Angell 4 EOT 2075C  
Sample Name: MW 4

Client: Environmental Tech Group  
Attn: Ken Dutton

## REPORT OF SURROGATE RECOVERY

| Surrogate Compound    | Method | Recovery | Recovery Limit | Data Qualifiers |
|-----------------------|--------|----------|----------------|-----------------|
| 1,2-Dichloroethane-d4 | 8260b  | 102      | 80-120         | ---             |
| Toluene-d8            | 8260b  | 91.8     | 88-110         | ---             |

Data Qualifiers: D - Surrogates diluted and X - Surrogates outside advisory recovery limits.



# Exceptions Report:

|                                   |               |                  |
|-----------------------------------|---------------|------------------|
| Report #/Lab ID#: 126125          | Matrix: water | Attn: Ken Dutton |
| Client: Environmental Tech Group  |               |                  |
| Project ID: Dar Angel 4 EOT 2075C |               |                  |
| Sample Name: MW 4                 |               |                  |

## Sample Temperature/Condition <= 6°C

The typical sample temperature criteria (except for metals by ICP, GFAA and AA and a very few other tests) is <= 6°C. Possible exceptions include samples submitted to laboratory within such a short time after sampling that cooling measures used in the field and during transport had insufficient time to achieve desired temperatures in the samples (see sample collection and sample receipt times) and samples where the temperature could not be measured due to sample submission in a manner precluding temperature measurement without impacting sample integrity (ex. in a bottle with no cooler).

## Sample Bottles & Preservation

- ☒ Sample received in appropriate container(s) and appear to be appropriately preserved.
- ☐ Sample received in appropriate container(s). State of sample preservation unknown.
- ☐ Sample received in inappropriate container(s) and/or with unknown state of preservation.

## J Flag Discussion

A J flag data qualifier indicates (as required under TNRCC-TRRP reporting requirements) that the raw calculated analyte concentration in the sample (uncorrected for background levels/blanks and other potential sources of sampling and analytical contamination), though less than the Reported Quantitation Limit (RQL) is greater than the Detection Limit. Because the reported result is below the quantitation limit for this project/sample (or test procedure), GC/MS organics results may or MAY NOT have been verified as to the presence and relative ratio of target ions (eg. the material causing the J flag "hit" in such situations may be nothing more than background ion-fragment noise.)

## Comments pertaining to Data Qualifiers and QC data:

| Parameter | Qualif | Comment                      |
|-----------|--------|------------------------------|
| Blanking  | J      | See J-flag discussion above. |

## Notes:

**Client:** Environmental Tech Group  
**Attn:** Ken Dutton  
**Address:** 2540 W. Marland  
Hobbs Nm 88240  
**Phone:** 505 397-4882 **FAX:** 505 397-4701

**Report#/Lab ID#:** 126126 **Report Date:** 03/01/02  
**Project ID:** Darr Angell 4 EOT-2075C  
**Sample Name:** MW 5  
**Sample Matrix:** water  
**Date Received:** 02/26/2002 **Time:** 09:37  
**Date Sampled:** 02/18/2002 **Time:** 10:00

## REPORT OF ANALYSIS

| Parameter                     | Result | Units | RQL <sup>5</sup> | Blank | Date     | Method <sup>6</sup> | Data Qual <sup>7</sup> | Prec. <sup>2</sup> | Recov. <sup>3</sup> | CCV <sup>4</sup> | ICS <sup>4</sup> |
|-------------------------------|--------|-------|------------------|-------|----------|---------------------|------------------------|--------------------|---------------------|------------------|------------------|
| Volatiles organics-8260b/BTEX | ---    |       | ---              |       | 02/27/02 | 8260b               | ---                    | ---                | ---                 | ---              | ---              |
| Benzene                       | <1     | µg/L  | 1                | <1    | 02/27/02 | 8260b               | J                      | 2.4                | 108.1               | 102.7            | 102.5            |
| Ethylbenzene                  | <1     | µg/L  | 1                | <1    | 02/27/02 | 8260b               | ---                    | 1.3                | 96.9                | 96.1             | 98.1             |
| m,p-Xylenes                   | <1     | µg/L  | 1                | <1    | 02/27/02 | 8260b               | ---                    | 2.5                | 100.2               | 99.9             | 99.5             |
| o-Xylene                      | <1     | µg/L  | 1                | <1    | 02/27/02 | 8260b               | ---                    | 2.1                | 96.8                | 94.9             | 96.5             |
| Toluene                       | <1     | µg/L  | 1                | <1    | 02/27/02 | 8260b               | ---                    | 3.5                | 118.8               | 112              | 109.3            |

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

This analytical report is respectfully submitted by AnalySys, Inc. The enclosed results have been carefully reviewed and, to the best of my knowledge, the analytical results are consistent with AnalySys, Inc.'s Quality Assurance/Quality Control Program. © Copyright 2000, AnalySys, Inc., Austin, TX. All rights reserved. No part of this publication may be reproduced or transmitted in any form or by any means without the express written consent of AnalySys, Inc.

Respectfully Submitted,

*Richard Easter*

Richard Easter

1. Quality assurance data is for the sample batch 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 (CV) and Laboratory Control Sample (LCS) results are expressed as the percent (%) recovery of analyte from a known standard or matrix. 5. Reporting Quantitation Limits (RQL), typically at or above the Practical Quantitation Limit (PQL) of the analytical method. 6. Method numbers typically denote USEPA procedures. Less than ("<") values reflect nominal quantitation limits adjusted for any required dilutions. 7. Data Qualifiers are J = analyte potentially present between the PQL and the MQL. B = Analyte detected in associated method blank(s). S1 = MS and/or MSD recovery exceed advisory limits. S2 = Post digestion spike (PDS) recovery exceeds advisory limit. S3 = MS and/or MSD and PDS recoveries exceed advisory limits. P = Precision higher than advisory limit. M = Matrix interference.

|                                  |                                     |                         |
|----------------------------------|-------------------------------------|-------------------------|
| Client: Environmental Tech Group | Project ID: Darr Angell 4 EOT 2075C | Report#/Lab ID#: 126126 |
| Anal: Ken Patton                 | Sample Name: MW 5                   | Sample Matrix: water    |

## REPORT OF SURROGATE RECOVERY

| Surrogate Compound    | Method | Recovery | Recovery Limit | Data Qualifiers |
|-----------------------|--------|----------|----------------|-----------------|
| 1,2 Dichloroethane-d4 | 8260b  | 101      | 80-120         | ---             |
| Toluene d8            | 8260b  | 92.2     | 88-110         | ---             |

Data Qualifiers: D = Surrogates diluted and X = Surrogates outside advisory recovery limits.

# Exceptions Report:

|                                    |               |                  |
|------------------------------------|---------------|------------------|
| Report #/Lab ID#: 126126           | Matrix: water | Attn: Ken Dutton |
| Client: Environmental Tech Group   |               |                  |
| Project ID: Dan Angell + EOT 2075C |               |                  |
| Sample Name: MW 5                  |               |                  |

## Sample Temperature/Condition < 6°C

The typical sample temperature criteria (except for metals by ICP, GFAA and AA and a very few other tests) is  $\leq 6^{\circ}\text{C}$ . Possible exceptions include samples submitted to laboratory within such a short time after sampling that cooling measures used in the field and during transport had insufficient time to achieve desired temperatures in the samples (see sample collection and sample receipt times) and samples where the temperature could not be measured due to sample submission in a manner precluding temperature measurement without impacting sample integrity (ex. in a bottle with no cooler).

## Sample Bottles & Preservation

- ☒ Sample received in appropriate container(s) and appear to be appropriately preserved.
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## J Flag Discussion

A J flag data qualifier indicates (as required under TNRCC-TRRP reporting requirements) that the raw calculated analyte concentration in the sample (uncorrected for background levels/flanks and other potential sources of sampling and analytical contamination), though less than the Reported Quantitation Limit (RQL) is greater than the Detection Limit. Because the reported result is below the quantitation limit for this project/sample (or test procedure), GC/MS organics results may or MAY NOT have been verified as to the presence and relative ratio of target ions (eg. the material causing the J flag "hit" in such situations may be nothing more than background ion-fragment noise.)

## Comments pertaining to Data Qualifiers and QC data:

| Parameter  | Qualifier | Comment                      |
|------------|-----------|------------------------------|
| J, D, C, E | J         | See J flag discussion above. |

Notes:

**Client:** Environmental Tech Group  
**Attn:** Ken Dutton  
**Address:** 2540 W. Marland  
Hobbs Nm 88240  
**Phone:** 505 397-4882 **FAX:** 505 397-4701

**Report#/Lab ID#:** 126127 **Report Date:** 03/01/02  
**Project ID:** Darr Angell 4 EOT 2075C  
**Sample Name:** MW 7  
**Sample Matrix:** water  
**Date Received:** 02/26/2002 **Time:** 09:37  
**Date Sampled:** 02/18/2002 **Time:** 13:15

## REPORT OF ANALYSIS

| Parameter                     | Result | Units | RQL <sup>5</sup> | Blank | Date     | Method <sup>6</sup> | Data Qual <sup>7</sup> | Prec. <sup>2</sup> | Recov. <sup>3</sup> | CCV <sup>4</sup> | LCS <sup>4</sup> |
|-------------------------------|--------|-------|------------------|-------|----------|---------------------|------------------------|--------------------|---------------------|------------------|------------------|
| Volatiles organics 8260b/BTEX | ---    |       | ---              |       | 02/27/02 | 8260b               | ---                    | ---                | ---                 | ---              | ---              |
| Benzene                       | <1     | µg/L  | 1                | <1    | 02/27/02 | 8260b               | J                      | 2.4                | 108.1               | 102.7            | 102.5            |
| toluene                       | <1     | µg/L  | 1                | <1    | 02/27/02 | 8260b               | ---                    | 1.3                | 96.9                | 96.1             | 98.1             |
| m,p-Xylenes                   | <1     | µg/L  | 1                | <1    | 02/27/02 | 8260b               | ---                    | 2.5                | 100.2               | 99.9             | 99.5             |
| o-Xylene                      | <1     | µg/L  | 1                | <1    | 02/27/02 | 8260b               | ---                    | 2.1                | 96.8                | 94.9             | 96.5             |
| 1,4-dichlorobenzene           | <1     | µg/L  | 1                | <1    | 02/27/02 | 8260b               | ---                    | 3.5                | 118.8               | 112              | 109.3            |

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Respectfully Submitted,  
*Richard Laster*  
Richard Laster

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Client: Environmental Tech Group  
Attn: Ken Dalton

Project ID: Darr Angell 4 EOT 2075C  
Sample Name: MW 7

Report#/Lab ID#: 126127  
Sample Matrix: water

## REPORT OF SURROGATE RECOVERY

| Surrogate Compound    | Method | Recovery | Recovery Limit | Data Qualifiers |
|-----------------------|--------|----------|----------------|-----------------|
| 1,2 Dichloroethane-d4 | 8260b  | 101      | 80-120         | ---             |
| Toluene-d8            | 8260b  | 91.1     | 88-110         | ---             |

Data Qualifiers: D - Surrogates diluted and X - Surrogates outside advisory recovery limits.

## Exceptions Report:

|                                    |               |                  |
|------------------------------------|---------------|------------------|
| Report #/Lab ID#: 126127           | Matrix: water | Attn: Ken Dutton |
| Client: Environmental Tech Group   |               |                  |
| Project ID: Dar Angell 4 EOT 2075C |               |                  |
| Sample Name: MW 7                  |               |                  |

### Sample Temperature/Condition $\leq 6^{\circ}\text{C}$

The typical sample temperature criteria (except for metals by ICP, GFAA and AA and a very few other tests) is  $\leq 6^{\circ}\text{C}$ . Possible exceptions include samples submitted to laboratory within such a short time after sampling that cooling measures used in the field and during transport had insufficient time to achieve desired temperatures in the samples (see sample collection and sample receipt times) and samples where the temperature could not be measured due to sample submission in a manner precluding temperature measurement without impacting sample integrity (ex. in a bottle with no cooler).

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### Comments pertaining to Data Qualifiers and QC data:

| Parameter | Qualif | Comment                      |
|-----------|--------|------------------------------|
| Benzene   | J      | See J flag discussion above. |

Notes:

**Client:** Environmental Tech Group  
**Attn:** Ken Puffton  
**Address:** 2540 W. Marland  
Hobbs Nm 88240  
**Phone:** 505 397-4882 **FAX:** 505 397-4701

**Report#/Lab ID#:** 126128 **Report Date:** 03/01/02  
**Project ID:** Darr Angell 4 HOT 2075C  
**Sample Name:** MW 8  
**Sample Matrix:** water  
**Date Received:** 02/26/2002 **Time:** 09:37  
**Date Sampled:** 02/18/2002 **Time:** 12:55

## REPORT OF ANALYSIS

| QUALITY ASSURANCE DATA <sup>1</sup> |        |       |                  |       |          |                     |                        |                    |                     |                  |                  |
|-------------------------------------|--------|-------|------------------|-------|----------|---------------------|------------------------|--------------------|---------------------|------------------|------------------|
| Parameter                           | Result | Units | RQL <sup>5</sup> | Blank | Date     | Method <sup>6</sup> | Data Qual <sup>7</sup> | Prec. <sup>2</sup> | Recov. <sup>3</sup> | CCV <sup>4</sup> | LCS <sup>4</sup> |
| Volatile organics-8260b/BTEX        | ---    |       | ---              |       | 02/27/02 | 8260b               | ---                    | ---                | ---                 | ---              | ---              |
| Benzene                             | 8.72   | µg/L  | 1                | <1    | 02/27/02 | 8260b               | ---                    | 2.4                | 108.1               | 102.7            | 102.5            |
| Ethylbenzene                        | 63.4   | µg/L  | 1                | <1    | 02/27/02 | 8260b               | ---                    | 1.3                | 96.9                | 96.1             | 98.1             |
| m,p-Xylenes                         | 10.8   | µg/L  | 1                | <1    | 02/27/02 | 8260b               | ---                    | 2.5                | 100.2               | 99.9             | 99.5             |
| o-Xylene                            | 3.18   | µg/L  | 1                | <1    | 02/27/02 | 8260b               | ---                    | 2.1                | 96.8                | 94.9             | 96.5             |
| Toluene                             | <1     | µg/L  | 1                | <1    | 02/27/02 | 8260b               | ---                    | 3.5                | 118.8               | 112              | 109.3            |

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Respectfully Submitted,

*Richard Lasler*

Richard Lasler

1. Quality assurance data is for the sample batch 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 Laboratory Control Sample (LCS) results are expressed as the percent (%) recovery of analyte from a known standard or matrix. 5. Reporting Quantitation Limits (RQL), typically at or above the Practical Quantitation Limit (PQL) of the analytical method. 6. Method numbers typically denote USEPA procedures. Less than ("<") values reflect nominal quantitation limits adjusted for any required dilutions. 7. Data Qualifiers are: 1 = analyte potentially present between the PQL and the MDL; 2 = Analyte detected in associated method blank(s); S1 = MS and/or MSD recovery exceed advisory limits; S2 = Post digestion spike (PDS) recovery exceeds advisory limit; S3 = MS and/or MSD and PDS recoveries exceed advisory limits; P = Precision higher than advisory limit; M = Matrix interference.



Client: Environmental Tech Group  
Attn: Ken Dutton

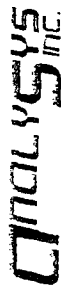
Project ID: Darr Angell 4 EOT 2075C  
Sample Name: MW 8

Report#/Lab ID#: 126128  
Sample Matrix: water

## REPORT OF SURROGATE RECOVERY

| Surrogate Compound    | Method | Recovery | Recovery Limit | Data Qualifiers |
|-----------------------|--------|----------|----------------|-----------------|
| 1,2 Dichloroethane d1 | 8260b  | 98.4     | 80-120         | ---             |
| Toluene d8            | 8260b  | 92.9     | 88-110         | ---             |

Data Qualifiers: D = Surrogates diluted and Y = Surrogates outside advisory recovery limits.



4221 Freidrich Lane, Suite 190, Austin, TX 78744 &  
2209 N. Padre Island Dr., Corpus Christi, TX 78408  
(512) 444-5896 • FAX (512) 447-4766

**Client:** Environmental Tech Group  
**Attn:** Ken Dutton  
**Address:** 2540 W. Marland  
Hobbs Nm 88240  
**Phone:** 505 397-4882 **FAX:** 505 397-4701

**Report#/Lab ID#:** 126129 **Report Date:** 03/01/02  
**Project ID:** Darr Angell 4 EOT 2075C  
**Sample Name:** MW 9  
**Sample Matrix:** water  
**Date Received:** 02/26/2002 **Time:** 09:37  
**Date Sampled:** 02/18/2002 **Time:** 12:15

#### REPORT OF ANALYSIS

| Parameter                     | Result | Units | RQL <sup>5</sup> | Blank | Date     | Method <sup>6</sup> | Data Qual <sup>7</sup> | Prec. <sup>2</sup> | Recov. <sup>3</sup> | CCV <sup>4</sup> | LCS <sup>4</sup> |
|-------------------------------|--------|-------|------------------|-------|----------|---------------------|------------------------|--------------------|---------------------|------------------|------------------|
| Volatiles organics-8260b/BTEX | ---    |       | ---              |       | 02/27/02 | 8260b               | ---                    | ---                | ---                 | ---              | ---              |
| Benzene                       | 1.4    | µg/L  | 1                | <1    | 02/27/02 | 8260b               | ---                    | 2.4                | 108.1               | 102.7            | 102.5            |
| Ethylbenzene                  | <1     | µg/L  | 1                | <1    | 02/27/02 | 8260b               | ---                    | 1.3                | 96.9                | 96.1             | 98.1             |
| m,p-Xylenes                   | <1     | µg/L  | 1                | <1    | 02/27/02 | 8260b               | ---                    | 2.5                | 100.2               | 99.9             | 99.5             |
| o-Xylene                      | <1     | µg/L  | 1                | <1    | 02/27/02 | 8260b               | ---                    | 2.1                | 96.8                | 94.9             | 96.5             |
| Toluene                       | <1     | µg/L  | 1                | <1    | 02/27/02 | 8260b               | ---                    | 3.5                | 118.8               | 112              | 109.3            |

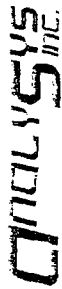
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Respectfully Submitted,

*Richard Laster*

Richard Laster

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4221 Freidrich Lane, Suite 190, Austin, TX 78744 &  
2209 N. Padre Island Dr., Corpus Christi, TX 7840408  
(512) 444-5896 • FAX (512) 447-4766

Client: Environmental Tech Group  
Attn: Ken Dutton

Project ID: Darr Angell 4 EOT 2075C  
Sample Name: MW 9

Report#/Lab ID#: 126129  
Sample Matrix: water

REPORT OF SURROGATE RECOVERY

| Surrogate Compound    | Method | Recovery | Recovery Limit | Data Qualifiers |
|-----------------------|--------|----------|----------------|-----------------|
| 1,2 Dichloroethane-d4 | 8260b  | 102      | 80-120         | ---             |
| Toluene-d8            | 8260b  | 91.2     | 88-110         | ---             |

Data Qualifiers: D = Surrogates diluted and X = Surrogates outside advisory recovery limits.

Client: Environmental Tech Group  
Attn: Ken Dutton  
Address: 2540 W. Mainland  
Hobbs Nm 88240  
Phone: 505 397-4882 FAX: 505 397-4701

Report#/Lab ID#: 126130 Report Date: 03/01/02  
Project ID: Darr Angell 4 EOT 2075C  
Sample Name: MW 10  
Sample Matrix: water  
Date Received: 02/26/2002 Time: 09:37  
Date Sampled: 02/18/2002 Time: 11:59

## REPORT OF ANALYSIS

| Parameter                    | Result | Units | RQL <sup>5</sup> | Blank | Date     | Method <sup>6</sup> | Data Qual <sup>7</sup> | Prec. <sup>2</sup> | Recov. <sup>3</sup> | CCV <sup>4</sup> | LCS <sup>4</sup> |
|------------------------------|--------|-------|------------------|-------|----------|---------------------|------------------------|--------------------|---------------------|------------------|------------------|
| Volatile organics-8260b/BTEX | ---    |       | ---              |       | 02/27/02 | 8260b               | ---                    | ---                | ---                 | ---              | ---              |
| Benzene                      | 981    | µg/L  | 10               | <10   | 02/28/02 | 8260b               | ---                    | 0.7                | 97                  | 97.5             | 100.1            |
| Ethylbenzene                 | 2.46   | µg/L  | 1                | <1    | 02/27/02 | 8260b               | ---                    | 0.2                | 98                  | 99               | 97.1             |
| m,p-Xylenes                  | 49.3   | µg/L  | 1                | <1    | 02/27/02 | 8260b               | ---                    | 0.1                | 99.7                | 101.1            | 100.1            |
| o-Xylene                     | <1     | µg/L  | 1                | <1    | 02/27/02 | 8260b               | ---                    | 0.9                | 96                  | 97.3             | 96.9             |
| Toluene                      | <1     | µg/L  | 1                | <1    | 02/27/02 | 8260b               | ---                    | 1.8                | 105                 | 106.4            | 107.4            |

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

This analytical report is respectfully submitted by AnalySys, Inc. The enclosed results have been carefully reviewed and, to the best of my knowledge, the analytical results are consistent with AnalySys, Inc.'s Quality Assurance/Quality Control Program. © Copyright 2000 AnalySys, Inc., Austin, TX. All rights reserved. No part of this publication may be reproduced or transmitted in any form or by any means without the express written consent of AnalySys, Inc.

Respectfully Submitted,

*Richard Laster*

Richard Laster

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|                                                      |                                                           |                                                 |
|------------------------------------------------------|-----------------------------------------------------------|-------------------------------------------------|
| Client: Environmental Tech Group<br>Attn: Ken Dutton | Project ID: Darr Angell 4 EOT-2075C<br>Sample Name: MW 10 | Report#/Lab ID#: 126130<br>Sample Matrix: water |
|------------------------------------------------------|-----------------------------------------------------------|-------------------------------------------------|

## **REPORT OF SURROGATE RECOVERY**

| Surrogate Compound    | Method | Recovery | Recovery Limit | Data Qualifiers |
|-----------------------|--------|----------|----------------|-----------------|
| 1,2 Dichloroethane-d4 | 8260b  | 100      | 80-120         | ---             |
| Toluene-d8            | 8260b  | 92.3     | 88-110         | ---             |

Data Qualifiers: D = Surrogates diluted and X = Surrogates outside advisory recovery limits.

**Client:** Environmental Tech Group  
**Attn:** Ken Dutton  
**Address:** 2540 W. Marland  
Hobbs Nm 88240  
**Phone:** 505 397-4882 **FAX:** 505 397-4701

**Report#/Lab ID#:** 126131 **Report Date:** 03/01/02  
**Project ID:** Darr Angell 4 EOT 2075C  
**Sample Name:** MW 11  
**Sample Matrix:** water  
**Date Received:** 02/26/2002 **Time:** 09:37  
**Date Sampled:** 02/18/2002 **Time:** 11:40

## REPORT OF ANALYSIS

| Parameter                     | Result | Units | RQL <sup>5</sup> | Blank | Date     | Method <sup>6</sup> | Data Qual <sup>7</sup> | Prec. <sup>2</sup> | Recov. <sup>3</sup> | CCV <sup>4</sup> | LCS <sup>4</sup> |
|-------------------------------|--------|-------|------------------|-------|----------|---------------------|------------------------|--------------------|---------------------|------------------|------------------|
| Volatiles organics 8260b/BTEX | ---    | ---   | ---              | ---   | 02/28/02 | 8260b               | ---                    | ---                | ---                 | ---              | ---              |
| Benzene                       | <1     | µg/L  | 1                | <1    | 02/28/02 | 8260b               | ---                    | 0.7                | 97                  | 97.5             | 100.1            |
| Ethylbenzene                  | <1     | µg/L  | 1                | <1    | 02/28/02 | 8260b               | ---                    | 0.2                | 98                  | 99               | 97.1             |
| m,p-Xylenes                   | <1     | µg/L  | 1                | <1    | 02/28/02 | 8260b               | ---                    | 0.1                | 99.7                | 101.1            | 100.1            |
| o-Xylene                      | <1     | µg/L  | 1                | <1    | 02/28/02 | 8260b               | ---                    | 0.9                | 96                  | 97.3             | 96.9             |
| Toluene                       | <1     | µg/L  | 1                | <1    | 02/28/02 | 8260b               | ---                    | 1.8                | 105                 | 106.4            | 107.4            |

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

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Respectfully Submitted,

*Richard Laster*

Richard Laster

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Client: Environmental Tech Group  
Att: Ken Dutton

Project ID: Dair Angell 4 EOT 2075C  
Sample Name: MW 11

Report#/Lab ID#: 126131  
Sample Matrix: water

## REPORT OF SURROGATE RECOVERY

| Surrogate Compound    | Method | Recovery | Recovery Limit | Data Qualifiers |
|-----------------------|--------|----------|----------------|-----------------|
| 1,2 Dichloroethane-d4 | 8260b  | 102      | 80-120         | ---             |
| Toluene-d8            | 8260b  | 94.1     | 88-110         | ---             |

Data Qualifiers: D = Surrogates diluted and X = Surrogates outside advisory recovery limits.

**Client:** Environmental Tech Group  
**Attn:** Ken Dutton  
**Address:** 2540 W. Marland  
Hobbs Nm 88240  
**Phone:** 505 397-4882 **FAX:** 505 397-4701

**Report#/Lab ID#:** 126132 **Report Date:** 03/01/02  
**Project ID:** Darr Angell 4 EOT 2075C  
**Sample Name:** MW 12  
**Sample Matrix:** water  
**Date Received:** 02/26/2002 **Time:** 09:37  
**Date Sampled:** 02/18/2002 **Time:** 11:17

## REPORT OF ANALYSIS

| Parameter                     | Result | Units | RQL <sup>5</sup> | Blank | Date     | Method <sup>6</sup> | Data Qual <sup>7</sup> | Prec. <sup>2</sup> | Recov. <sup>3</sup> | CCV <sup>4</sup> | LCS <sup>4</sup> |
|-------------------------------|--------|-------|------------------|-------|----------|---------------------|------------------------|--------------------|---------------------|------------------|------------------|
| Volatiles organics-8260b/BTEX | ---    |       | ---              |       | 02/27/02 | 8260b               | ---                    | ---                | ---                 | ---              | ---              |
| Benzene                       | <1     | µg/L  | 1                | <1    | 02/27/02 | 8260b               | J                      | 0.7                | 97                  | 97.5             | 100.1            |
| Ethylbenzene                  | <1     | µg/L  | 1                | <1    | 02/27/02 | 8260b               | ---                    | 0.2                | 98                  | 99               | 97.1             |
| m,p Xylenes                   | <1     | µg/L  | 1                | <1    | 02/27/02 | 8260b               | ---                    | 0.1                | 99.7                | 101.1            | 100.1            |
| o Xylene                      | <1     | µg/L  | 1                | <1    | 02/27/02 | 8260b               | ---                    | 0.9                | 96                  | 97.3             | 96.9             |
| Toluene                       | <1     | µg/L  | 1                | <1    | 02/27/02 | 8260b               | ---                    | 1.8                | 105                 | 106.4            | 107.4            |

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

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Respectfully Submitted,

*Richard Laster*

Richard Laster

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Client: Environmental Tech Group  
Attn: Ken Dutton

Project ID: Darr Angell 4 EOT 2075C  
Sample Name: MW 12

Report#/Lab ID#: 126132  
Sample Matrix: water

## REPORT OF SURROGATE RECOVERY

| Surrogate Compound    | Method | Recovery | Recovery Limit | Data Qualifiers |
|-----------------------|--------|----------|----------------|-----------------|
| 1,2-Dichloroethane-d4 | 8260b  | 105      | 80-120         | ---             |
| Toluene d8            | 8260b  | 91.7     | 88-110         | ---             |

Data Qualifiers: D- Surrogates diluted and X- Surrogates outside advisory recovery limits.

## Exceptions Report:

|                                     |               |                  |
|-------------------------------------|---------------|------------------|
| Report #/Lab ID#: 126132            | Matrix: water | Attn: Ken Dutton |
| Client: Environmental Tech Group    |               |                  |
| Project ID: Darr Angell 4 EOT 2075C |               |                  |
| Sample Name: MW 12                  |               |                  |

### Sample Temperature/Condition <= 6°C

The typical sample temperature criteria (except for metals by ICP, GFAA and AA and a very few other tests) is <= 6°C. Possible exceptions include samples submitted to laboratory within such a short time after sampling that cooling measures used in the field and during transport had insufficient time to achieve desired temperatures in the samples (see sample collection and sample receipt times) and samples where the temperature could not be measured due to sample submission in a manner precluding temperature measurement without impacting sample integrity (ex. in a bottle with no cooler).

### Sample Bottles & Preservation

- ☒ Sample received in appropriate container(s) and appear to be appropriately preserved.
- ☐ Sample received in appropriate container(s). State of sample preservation unknown.
- ☐ Sample received in inappropriate container(s) and/or with unknown state of preservation.

### J flag Discussion

A J flag data qualifier indicates (as required under TNRCC-TRRP reporting requirements) that the raw calculated analyte concentration in the sample (uncorrected for background levels, blanks and other potential sources of sampling and analytical contamination), though less than the Reported Quantitation Limit (RQL) is greater than the Detection Limit. Because the reported result is below the quantitation limit for this project/sample (or test procedure), GC/MS organics results may or MAY NOT have been verified as to the presence and relative ratio of target ions (eg. the material causing the J flag "hit" in such situations may be nothing more than background ion-fragment noise.)

### Comments pertaining to Data Qualifiers and QC data:

| Parameter | Qualif | Comment                      |
|-----------|--------|------------------------------|
| 126132    | J      | See J-flag discussion above. |

Notes:

**Client:** Environmental Tech Group  
**Attn:** Ken Dutton  
**Address:** 2540 W. Marland  
Hobbs Nm 88240  
**Phone:** 505 397-4882 **FAX:** 505 397-4701

**Report#/Lab ID#:** 126133 **Report Date:** 03/01/02  
**Project ID:** Darr Angell 4 EOT 2075C  
**Sample Name:** MW 13  
**Sample Matrix:** water  
**Date Received:** 02/26/2002 **Time:** 09:37  
**Date Sampled:** 02/18/2002 **Time:** 10:59

## REPORT OF ANALYSIS

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

| Parameter                     | Result | Units | RQL <sup>5</sup> | Blank | Date     | Method <sup>6</sup> | Data Qual <sup>7</sup> | Prec. <sup>2</sup> | Recov. <sup>3</sup> | CCV <sup>4</sup> | LCS <sup>4</sup> |
|-------------------------------|--------|-------|------------------|-------|----------|---------------------|------------------------|--------------------|---------------------|------------------|------------------|
| Volatiles organics-8260b/BTEX | ---    |       | ---              |       | 02/27/02 | 8260b               | ---                    | ---                | ---                 | ---              | ---              |
| Benzene                       | 12.5   | µg/L  | 1                | <1    | 02/27/02 | 8260b               | ---                    | 0.7                | 97                  | 97.5             | 100.1            |
| Ethylbenzene                  | <1     | µg/L  | 1                | <1    | 02/27/02 | 8260b               | ---                    | 0.2                | 98                  | 99               | 97.1             |
| m,p Xylenes                   | <1     | µg/L  | 1                | <1    | 02/27/02 | 8260b               | J                      | 0.1                | 99.7                | 101.1            | 100.1            |
| o-Xylene                      | <1     | µg/L  | 1                | <1    | 02/27/02 | 8260b               | ---                    | 0.9                | 96                  | 97.3             | 96.9             |
| Toluene                       | <1     | µg/L  | 1                | <1    | 02/27/02 | 8260b               | ---                    | 1.8                | 105                 | 106.4            | 107.4            |

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Respectfully Submitted,

*Richard Laster*

Richard Laster

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Report#/Lab ID#: 126133  
Sample Matrix: water

Project ID: Darr Angell 4 EOT 2075C  
Sample Name: MW 13

Client: Environmental Tech Group  
Attn: Ken Dutton

## **REPORT OF SURROGATE RECOVERY**

| Surrogate Compound    | Method | Recovery | Recovery Limit | Data Qualifiers |
|-----------------------|--------|----------|----------------|-----------------|
| 1,2-Dichloroethane-d4 | 8260b  | 98.1     | 80-120         | ---             |
| Toluene-d8            | 8260b  | 93       | 88-110         | ---             |

Data Qualifiers: D = Surrogates diluted and X = Surrogates outside advisory recovery limits.

### Exceptions Report:

|                                     |               |                  |
|-------------------------------------|---------------|------------------|
| Report #/Lab ID#: 126133            | Matrix: water | Attn: Ken Dutton |
| Client: Environmental Tech Group    |               |                  |
| Project ID: Darr Angell 4 EOT 2075C |               |                  |
| Sample Name: NW 13                  |               |                  |

### Sample Temperature/Condition $\leq 6^{\circ}\text{C}$

The typical sample temperature criteria (except for metals by ICP, GF/AA and AA and a very few other tests) is  $\leq 6^{\circ}\text{C}$ . Possible exceptions include samples submitted to laboratory within such a short time after sampling that cooling measures used in the field and during transport had insufficient time to achieve desired temperatures in the samples (see sample collection and sample receipt times) and samples where the temperature could not be measured due to sample submission in a manner precluding temperature measurement without impacting sample integrity (ex. in a bottle with no cooler).

### Sample Bottles & Preservation

- ☒ Sample received in appropriate container(s) and appear to be appropriately preserved.  
☐ Sample received in appropriate container(s). State of sample preservation unknown.  
☐ Sample received in inappropriate container(s) and/or with unknown state of preservation.

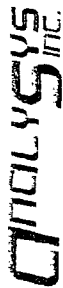
### J flag Discussion

A J flag data qualifier indicates (as required under TNRCC-TRRP reporting requirements) that the raw calculated analyte concentration in the sample (uncorrected for background levels/blanks and other potential sources of sampling and analytical contamination), though less than the Reported Quantitation Limit (RQL) is greater than the Detection Limit. Because the reported result is below the quantitation limit for this project/sample (or test procedure), GC/MS organics results may or MAY NOT have been verified as to the presence and relative ratio of target ions (eg. the material causing the J flag "bit" in such situations may be nothing more than background ion-fragment noise.)

### Comments pertaining to Data Qualifiers and QC data:

| Parameter   | Qualif | Comment                      |
|-------------|--------|------------------------------|
| mp Nj lanes | J      | See J-flag discussion above. |

Notes:



4221 Freidrich Lane, Suite 190, Austin, TX 78744 &  
2209 N. Padre Island Dr., Corpus Christi, TX 78408  
(512) 444-5896 • FAX (512) 447-4766

**Client:** Environmental Tech Group  
**Attn:** Ken Dutton  
**Address:** 2540 W. Marland  
Hobbs Nm 88240  
**Phone:** 505 397-4882 **FAX:** 505 397-4701

**Report#**/Lab ID#: 126134 **Report Date:** 03/01/02  
**Project ID:** Darr Angell 4 EOT 2075C  
**Sample Name:** RW 5  
**Sample Matrix:** water  
**Date Received:** 02/26/2002 **Time:** 09:37  
**Date Sampled:** 02/18/2002 **Time:** 14:05

#### REPORT OF ANALYSIS

| Parameter                     | Result | Units | RQL <sup>5</sup> | Blank | Date     | Method <sup>6</sup> | Data Qual <sup>7</sup> | Prec. <sup>2</sup> | Recov. <sup>3</sup> | CCV <sup>4</sup> | L.C.S. <sup>1</sup> |
|-------------------------------|--------|-------|------------------|-------|----------|---------------------|------------------------|--------------------|---------------------|------------------|---------------------|
| Volatiles organics-8260b/BTEX | ---    |       | ---              |       | 02/27/02 | 8260b               | ---                    | ---                | ---                 | ---              | ---                 |
| Benzene                       | 7.03   | µg/L  | 1                | <1    | 02/27/02 | 8260b               | ---                    | 0.7                | 97                  | 97.5             | 100.1               |
| Ethylbenzene                  | 18.7   | µg/L  | 1                | <1    | 02/27/02 | 8260b               | ---                    | 0.2                | 98                  | 99               | 97.1                |
| m,p Xylenes                   | 20.6   | µg/L  | 1                | <1    | 02/27/02 | 8260b               | ---                    | 0.1                | 99.7                | 101.1            | 100.1               |
| o-Xylene                      | 6.59   | µg/L  | 1                | <1    | 02/27/02 | 8260b               | ---                    | 0.9                | 96                  | 97.3             | 96.9                |
| Toluene                       | 17     | µg/L  | 1                | <1    | 02/27/02 | 8260b               | ---                    | 1.8                | 105                 | 106.4            | 107.4               |

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

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Respectfully Submitted,  
*Richard Laster*  
Richard Laster

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Report#/Lab ID#: 126134  
Sample Matrix: water

Project ID: Dart Angell 4 EOT 2075C  
Sample Name: RW 5

Client: Environmental Tech Group  
Attn: Ken Dutton

## REPORT OF SURROGATE RECOVERY

| Surrogate Compound    | Method | Recovery | Recovery Limit | Data Qualifiers |
|-----------------------|--------|----------|----------------|-----------------|
| 1,2-Dichloroethane-d1 | 8260b  | 99.8     | 80-120         | ---             |
| Toluene-d8            | 8260b  | 92.5     | 88-110         | ---             |

Data Qualifiers: D = Surrogates diluted and X = Surrogates outside advisory recovery limits.

**Client:** Environmental Tech Group  
**Attn:** Ken Dutton  
**Address:** 2540 W. Marland  
Hubbs  
Nm 88240  
**Phone:** 505 397-4882 **FAX:** 505 397-4701

**Report#/Lab ID#:** 126135 **Report Date:** 03/01/02  
**Project ID:** Darr Angell 4 EOT 2075C  
**Sample Name:** EB 1  
**Sample Matrix:** water  
**Date Received:** 02/26/2002 **Time:** 09:37  
**Date Sampled:** 02/18/2002 **Time:** 14:20

## REPORT OF ANALYSIS

| Parameter                    | Result | Units | RQL <sup>5</sup> | Blank | Date     | Method <sup>6</sup> | Data Qual <sup>7</sup> | Prec. <sup>2</sup> | Recov. <sup>3</sup> | CCV <sup>4</sup> | I.C.S. <sup>4</sup> |
|------------------------------|--------|-------|------------------|-------|----------|---------------------|------------------------|--------------------|---------------------|------------------|---------------------|
| Volatile organics 8260b/BTEX | ---    |       | ---              |       | 02/27/02 | 8260b               | ---                    | ---                | ---                 | ---              | ---                 |
| Benzene                      | <1     | µg/L  | 1                | <1    | 02/27/02 | 8260b               | ---                    | 0.7                | 97                  | 97.5             | 100.1               |
| Ethylbenzene                 | <1     | µg/L  | 1                | <1    | 02/27/02 | 8260b               | ---                    | 0.2                | 98                  | 99               | 97.1                |
| m,p Xylenes                  | <1     | µg/L  | 1                | <1    | 02/27/02 | 8260b               | ---                    | 0.1                | 99.7                | 101.1            | 100.1               |
| o-Xylene                     | <1     | µg/L  | 1                | <1    | 02/27/02 | 8260b               | ---                    | 0.9                | 96                  | 97.3             | 96.9                |
| Toluene                      | <1     | µg/L  | 1                | <1    | 02/27/02 | 8260b               | ---                    | 1.8                | 105                 | 106.4            | 107.4               |

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

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Respectfully Submitted,  
*Richard Lastler*  
Richard Lastler

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Report#/Lab ID#: 126135  
Sample Matrix: water

Project ID: Darr Angell 4 EOT 2075C  
Sample Name: EB 1

Client: Environmental Tech Group  
Attn: Ken Dutton

## REPORT OF SURROGATE RECOVERY

| Surrogate Compound    | Method | Recovery | Recovery Limit | Data Qualifiers |
|-----------------------|--------|----------|----------------|-----------------|
| 1,2 Dichloroethane-d4 | 8260b  | 96.3     | 80-120         | ---             |
| Toluene-d8            | 8260b  | 92.8     | 88-110         | ---             |

Data Qualifiers: D = Surrogates diluted and X = Surrogates outside advisory recovery limits.

—

ADJUSTED-NET

Signed Records For:

Company Name EXX

Address: 2540 W. Myrtle Ave

State Alm Zip 88240

William Dutton

Phone: (503) 818-4128 Fax: (503) 818-4701

(Conf. Status must be confirmed with lab mgr.):

|                   |      |       |       |
|-------------------|------|-------|-------|
| Project Name: PO# | 2012 | Buyer | 4     |
| Sampler:          |      | Samon | Casas |

LOT 2275C

**Bill to (if different):**

Company Name CoIT

Address

City \_\_\_\_\_ State \_\_\_\_\_ Zip \_\_\_\_\_

ATTN:

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

**STANLEY INC.**

4221 Friedrich Lane, Suite 100, Austin, TX 78711

Phone: (512) 445-5996

$$\text{cov}(\tilde{y}_i, \tilde{y}_j) = \text{cov}(y_i, y_j) - \text{cov}(y_i, \bar{y}) \text{cov}(\bar{y}, y_j)$$

| Analyses Requested (1)                                                                                                                                                                                                                           |              |              |                   |      |       |       |          |  |   |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|--------------|-------------------|------|-------|-------|----------|--|---|
| Please attach explanatory information as required                                                                                                                                                                                                |              |              |                   |      |       |       |          |  |   |
| <div style="display: flex; justify-content: space-between;"> <div> <p>ATTN: <u>                    </u></p> <p>Phone <u>                    </u> Fax <u>                    </u></p> </div> <div> <p>Lab I.D. #<br/>(Lab only)</p> </div> </div> |              |              |                   |      |       |       |          |  |   |
| Client Sample No.                                                                                                                                                                                                                                | Date Sampled | Time Sampled | No. of Containers | Soil | Water | Waste | Comments |  |   |
| 0101                                                                                                                                                                                                                                             | 12-18-02     | 1040         | 3                 |      | X     |       |          |  | X |
| 0102                                                                                                                                                                                                                                             |              | 1236         |                   |      |       |       |          |  |   |
| 0103                                                                                                                                                                                                                                             |              | 1332         |                   |      |       |       |          |  |   |
| 0104                                                                                                                                                                                                                                             |              | 1019         |                   |      |       |       |          |  |   |
| 0105                                                                                                                                                                                                                                             |              | 1000         |                   |      |       |       |          |  |   |
| 0107                                                                                                                                                                                                                                             |              | 1315         |                   |      |       |       |          |  |   |
| 0108                                                                                                                                                                                                                                             |              | 1255         |                   |      |       |       |          |  |   |
| 0109                                                                                                                                                                                                                                             |              | 1215         |                   |      |       |       |          |  |   |
| 0110                                                                                                                                                                                                                                             |              | 1159         |                   |      |       |       |          |  |   |
| 0111                                                                                                                                                                                                                                             |              | 1140         |                   |      |       |       |          |  |   |

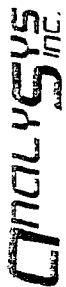
[illegible]

Temp: 00°C

| Sample Relinquished By |             |         | Sample Received By |             |         |
|------------------------|-------------|---------|--------------------|-------------|---------|
| Name                   | Affiliation | Date    | Name               | Affiliation | Date    |
| James Gabe             | CTCI        | 2-15-02 | Melanie Humphrey   | ASU         | 2/16/02 |
|                        |             |         |                    |             | 0937    |

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





4221 Freidrich Lane, Suite 190, Austin, TX 78744 &  
2209 N. Padre Island Dr., Corpus Christi, TX 78408  
(512) 444-5896 • FAX (512) 447-4766

Client: Environmental Tech Group  
Attn: Ken Dutton  
Address: 2540 W. Marland  
Hobbs, NM 88240  
Phone: 505 397-4882 FAX: 505 397-4701

Report#/Lab ID#: 131020 Report Date: 07/05/02  
Project ID: Darr Angell #4 EOT 2075C  
Sample Name: MW 1  
Sample Matrix: water  
Date Received: 06/28/2002 Time: 10:30  
Date Sampled: 06/19/2002 Time: 14:15

#### REPORT OF ANALYSIS

| Parameter                    | Result | Units | RQL <sup>5</sup> | Blank | Date     | Method <sup>6</sup> | Data Qual <sup>7</sup> | Recov. <sup>3</sup> | CCV <sup>4</sup> | ICS <sup>4</sup> |
|------------------------------|--------|-------|------------------|-------|----------|---------------------|------------------------|---------------------|------------------|------------------|
| Volatile organics-8260b-BTEX | ---    |       | ---              |       | 07/01/02 | 8260b               | ---                    | ---                 | ---              | ---              |
| Benzene                      | 6.37   | µg/L  | 1                | <1    | 07/01/02 | 8260b               | ---                    | 0.9                 | 92.6             | 90.8             |
| Ethylbenzene                 | 1.63   | µg/L  | 1                | <1    | 07/01/02 | 8260b               | ---                    | 2.5                 | 124.4            | 113.9            |
| m,p-Xylenes                  | <1     | µg/L  | 1                | <1    | 07/01/02 | 8260b               | ---                    | 2.3                 | 114              | 103.7            |
| o-Xylene                     | <1     | µg/L  | 1                | <1    | 07/01/02 | 8260b               | ---                    | 7.6                 | 110.6            | 98.4             |
| Toluene                      | <1     | µg/L  | 1                | <1    | 07/01/02 | 8260b               | J                      | 0.4                 | 86.9             | 82.1             |

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

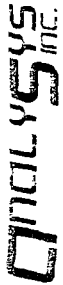
This analytical report is respectfully submitted by AnalySys, Inc. The enclosed results have been carefully reviewed and to the best of my knowledge, the analytical results are consistent with AnalySys, Inc.'s Quality Assurance/Quality Control Program. © Copyright 2000, AnalySys, Inc., Austin, TX. All rights reserved. No part of this publication may be reproduced or transmitted in any form or by any means without the express written consent of AnalySys, Inc.

Respectfully Submitted,

*Richard Laster*

Richard Laster

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(512) 444-5896 • FAX (512) 447-4766

|                                  |                                     |                         |
|----------------------------------|-------------------------------------|-------------------------|
| Client: Environmental Tech Group | Project ID: Dan Angell #4 EOT 2075C | Report#/Lab ID#: 131020 |
| Attn: Ken Dutton                 | Sample Name: MW 1                   | Sample Matrix: water    |

REPORT OF SURROGATE RECOVERY

| Surrogate Compound    | Method | Recovery | Recovery Limit | Data Qualifiers |
|-----------------------|--------|----------|----------------|-----------------|
| 1,2-Dichloroethane-d4 | 8260b  | 87.2     | 80-120         | ---             |
| Toluene d8            | 8260b  | 103      | 88-110         | ---             |

Data Qualifiers: D = Surrogates diluted and X = Surrogates outside advisory recovery limits.

# Exceptions Report:

|                                      |               |                  |
|--------------------------------------|---------------|------------------|
| Report #/Lab ID#: 131020             | Matrix: water | Attn: Ken Dutton |
| Client: Environmental Tech Group     |               |                  |
| Project ID: Darr Angell #4 EOT 2075C |               |                  |
| Sample Name: MW 1                    |               |                  |

## Sample Temperature/Condition <=6°C

The typical sample temperature criteria (except for metals by ICP, GFAA and AA and a very few other tests) is <= 6°C. Possible exceptions include samples submitted to laboratory within such a short time after sampling that cooling measures used in the field and during transport had insufficient time to achieve desired temperatures in the samples (see sample collection and sample receipt times) and samples where the temperature could not be measured due to sample submission in a manner precluding temperature measurement without impacting sample integrity (ex. in a bottle with no cooler).

## Sample Bottles & Preservation

- ☒ Sample received in appropriate container(s) and appear to be appropriately preserved.
- ☐ Sample received in appropriate container(s). State of sample preservation unknown.
- ☐ Sample received in inappropriate container(s) and/or with unknown state of preservation.

## J Flag Discussion

A J flag data qualifier indicates (as required under TNRC-TRRP reporting requirements) that the raw calculated analyte concentration in the sample (uncorrected for background levels/blanks and other potential sources of sampling and analytical contamination), though less than the Reported Quantitation Limit (RQL) is greater than the Detection Limit. Because the reported result is below the quantitation limit for this project/sample (or test procedure), GC/MS organics results may or MAY NOT have been verified as to the presence and relative ratio of target ions (eg. the material causing the J flag "hit" in such situations may be nothing more than background ion-fragment noise.)

## Comments pertaining to Data Qualifiers and QC data:

| Parameter | Qualif | Comment                      |
|-----------|--------|------------------------------|
| Ethene    | J      | See J-flag discussion above. |

Notes:



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Client: Environmental Tech Group  
Attn: Ken Dutton  
Address: 2540 W. Marland  
Hobbs, NM 88240  
Phone: 505 397-1882 FAX: 505 397-4701

Report# / Lab ID#: 131021 Report Date: 07/05/02  
Project ID: Darr Angell #4 EOT 2075C  
Sample Name: MW 2  
Sample Matrix: water  
Date Received: 06/28/2002 Time: 10:30  
Date Sampled: 06/19/2002 Time: 15:40

#### REPORT OF ANALYSIS

| Parameter                     | Result | Units | RQL <sup>5</sup> | Blank | Date     | Method <sup>6</sup> | Data Qual <sup>7</sup> | Prec. <sup>2</sup> | Recov. <sup>3</sup> | CCV <sup>4</sup> | LCS <sup>4</sup> |
|-------------------------------|--------|-------|------------------|-------|----------|---------------------|------------------------|--------------------|---------------------|------------------|------------------|
| Volatiles organics-8260b/BTEX | ---    |       | ---              |       | 07/02/02 | 8260b               | ---                    | ---                | ---                 | ---              | ---              |
| Benzene                       | <1     | µg/L  | 1                | <1    | 07/02/02 | 8260b               | ---                    | 2                  | 86.8                | 101.4            | 82.2             |
| Ethylbenzene                  | <1     | µg/L  | 1                | <1    | 07/02/02 | 8260b               | ---                    | 1.5                | 119.2               | 103.3            | 105.1            |
| m,p-Xylenes                   | <1     | µg/L  | 1                | <1    | 07/02/02 | 8260b               | ---                    | 1.8                | 109.6               | 95.1             | 97.9             |
| o-Xylene                      | <1     | µg/L  | 1                | <1    | 07/02/02 | 8260b               | ---                    | 1.5                | 105.7               | 86               | 91.2             |
| Toluene                       | <1     | µg/L  | 1                | <1    | 07/02/02 | 8260b               | ---                    | 0.1                | 83.7                | 97.6             | 79.2             |

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

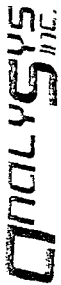
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Respectfully Submitted,

*Richard Lasler*

Richard Lasler

1. Quality assurance data is for the sample batch 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 Laboratory Control Sample (LCS) results are expressed as the percent (%) recovery of analyte from a known standard or matrix. 5. Reporting Quantitation Limits (RQL), typically at or above the Practical Quantitation Limit (PQL) of the analytical method. 6. Method numbers typically denote USEPA procedures. Less than ("<sup>5</sup>") values reflect nominal quantitation limits adjusted for any required dilutions. 7. Data Qualifiers are J = analyte potentially present between the PQL and the MDL, B = Analyte detected in associated method blank(s). S1 = MS and/or MSD recovery exceed advisory limits. S2 = Post digestion spike (PDS) recovery exceeds advisory limit. S3 = MS and/or MSD and PDS recoveries exceed advisory limits. P = Precision higher than advisory limit. M = Matrix interference.



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Client: Environmental Tech Group  
Attn: Ken Dutton

Project ID: Darr Angell #4 EOY 2075C  
Sample Name: MW 2

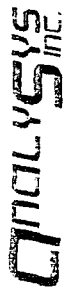
Report#/Lab ID#: 131021  
Sample Matrix: water

REPORT OF SURROGATE RECOVERY

| Surrogate Compound    | Method | Recovery | Recovery Limit | Data Qualifiers |
|-----------------------|--------|----------|----------------|-----------------|
| 1,2-Dichloroethane-d4 | 8260b  | 82.3     | 80-120         | ---             |
| Toluene-d8            | 8260b  | 102      | 88-110         | ---             |

Data Qualifiers: D = Surrogates diluted and X = Surrogates outside advisory recovery limits.





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Client: Environmental Tech Group  
Attn: Ken Dutton  
Address: 2540 W. Marland  
Hobbs, NM 88240

Phone: 505 397-4882 FAX: 505 397-4701

Report#/Lab ID#: 131022 Report Date: 07/05/02  
Project ID: Dart Angell #4 EOT 2075C  
Sample Name: MW 3  
Sample Matrix: water  
Date Received: 06/28/2002 Time: 10:30  
Date Sampled: 06/19/2002 Time: 17:00

#### REPORT OF ANALYSIS

| Parameter                     | Result | Units | RQL <sup>5</sup> | Blank | Date     | Method <sup>6</sup> | Data Qual <sup>7</sup> | Prec. <sup>2</sup> | Recov. <sup>3</sup> | CCV <sup>4</sup> | LCS <sup>4</sup> |
|-------------------------------|--------|-------|------------------|-------|----------|---------------------|------------------------|--------------------|---------------------|------------------|------------------|
| Volatiles organics-8260b/BTEX | ---    |       | ---              |       | 07/02/02 | 8260b               | ---                    | ---                | ---                 | ---              | ---              |
| Benzene                       | 395    | µg/L  | 1                | <1    | 07/02/02 | 8260b               | ---                    | 0.9                | 92.6                | 90.8             | 89.8             |
| Ethylbenzene                  | <1     | µg/L  | 1                | <1    | 07/02/02 | 8260b               | J                      | 2.5                | 124.4               | 113.9            | 118.5            |
| m,p-Xylenes                   | 53     | µg/L  | 1                | <1    | 07/02/02 | 8260b               | ---                    | 2.3                | 114                 | 103.7            | 108.3            |
| o-Xylene                      | <1     | µg/L  | 1                | <1    | 07/02/02 | 8260b               | J                      | 7.6                | 110.6               | 98.4             | 106.7            |
| Toluene                       | <1     | µg/L  | 1                | <1    | 07/02/02 | 8260b               | ---                    | 0.4                | 86.9                | 82.1             | 81.5             |

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

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Respectfully Submitted,

*Richard Laster*

Richard Laster

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(512) 444-5896 • FAX (512) 447-4766

Client: Environmental Tech Group  
Attn: Ken Dutton

Project ID: Dar Angell #4 EOT 2075C  
Sample Name: MW 3

Report#/Lab ID#: 131022  
Sample Matrix: water

REPORT OF SURROGATE RECOVERY

| Surrogate Compound    | Method | Recovery | Recovery Limit | Data Qualifiers |
|-----------------------|--------|----------|----------------|-----------------|
| 1,2-Dichloroethane-d4 | 8260b  | 82.5     | 80-120         | ---             |
| Toluene-d8            | 8260b  | 103      | 88-110         | ---             |

Data Qualifiers: D = Surrogates diluted and X = Surrogates outside advisory recovery limits.

## Exceptions Report:

|                                      |               |                  |
|--------------------------------------|---------------|------------------|
| Report #/Lab ID#: 131022             | Matrix: water | Attn: Ken Dutton |
| Client: Environmental Tech Group     |               |                  |
| Project ID: Dart Angell #4 EOT 2075C |               |                  |
| Sample Name: MW 3                    |               |                  |

### Sample Temperature/Condition <= 6°C

The typical sample temperature criteria (except for metals by ICP, GFAA and AA and a very few other tests) is <= 6°C. Possible exceptions include samples submitted to laboratory within such a short time after sampling that cooling measures used in the field and during transport had insufficient time to achieve desired temperatures in the samples (see sample collection and sample receipt times) and samples where the temperature could not be measured due to sample submission in a manner precluding temperature measurement without impacting sample integrity (ex. in a bottle with no cooler).

### Sample Bottles & Preservation

- ☒ Sample received in appropriate container(s) and appear to be appropriately preserved.  
☐ Sample received in appropriate container(s). State of sample preservation unknown.  
☐ Sample received in inappropriate container(s) and/or with unknown state of preservation.

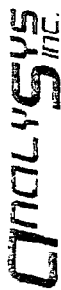
### J Flag Discussion

A J flag data qualifier indicates (as required under TNRC-TRRP reporting requirements) that the raw calculated analyte concentration in the sample (uncorrected for background levels/blanks and other potential sources of sampling and analytical contamination), though less than the Reported Quantitation Limit (RQL) is greater than the Detection Limit. Because the reported result is below the quantitation limit for this project/sample (or test procedure), GC/MS organics results may or MAY NOT have been verified as to the presence and relative ratio of target ions (eg. the material causing the J flag "hit" in such situations may be nothing more than background ion-fragment noise.)

### Comments pertaining to Data Qualifiers and QC data:

| Parameter    | Qualif | Comment                      |
|--------------|--------|------------------------------|
| Ethylbenzene | J      | See J-flag discussion above. |
| o-Xylene     | J      | See J-flag discussion above. |

Notes:



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Client: Environmental Tech Group  
Attn: Ken Dutton  
Address: 2540 W. Marland  
Hobbs,  
NM 88240

Phone: 505 397-4882 FAX: 505 397-4701

Report#/Lab ID#: 131023 Report Date: 07/05/02  
Project ID: Dart Angell #4 EOT 2075C  
Sample Name: MW 4  
Sample Matrix: water  
Date Received: 06/28/2002 Time: 10:30  
Date Sampled: 06/19/2002 Time: 14:39

#### REPORT OF ANALYSIS

| Parameter                    | Result | Units | RQL <sup>5</sup> | Blank | Date     | Method <sup>6</sup> | Data Qual <sup>7</sup> | Prec. <sup>2</sup> | Recov. <sup>3</sup> | CCV <sup>4</sup> | LCS <sup>4</sup> |
|------------------------------|--------|-------|------------------|-------|----------|---------------------|------------------------|--------------------|---------------------|------------------|------------------|
| Volatile organics-8260b/BTEX | ---    |       | ---              |       | 07/02/02 | 8260b               |                        | ---                | ---                 | ---              | ---              |
| Benzene                      | <1     | µg/L  | 1                | <1    | 07/02/02 | 8260b               | J                      | 0.9                | 92.6                | 90.8             | 89.8             |
| Ethylbenzene                 | <1     | µg/L  | 1                | <1    | 07/02/02 | 8260b               | ---                    | 2.5                | 124.4               | 113.9            | 118.5            |
| m,p-Xylenes                  | <1     | µg/L  | 1                | <1    | 07/02/02 | 8260b               | ---                    | 2.3                | 114                 | 103.7            | 108.3            |
| o-Xylene                     | <1     | µg/L  | 1                | <1    | 07/02/02 | 8260b               | ---                    | 7.6                | 110.6               | 98.4             | 106.7            |
| Toluene                      | <1     | µg/L  | 1                | <1    | 07/02/02 | 8260b               | ---                    | 0.4                | 86.9                | 82.1             | 81.5             |

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

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Respectfully Submitted,

*Richard Laster*

Richard Laster

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(512) 444-5896 • FAX (512) 447-4766

Client: Environmental Tech Group  
Attn: Ken Dutton

Project ID: Darr Angell #4 EOT 2075C  
Sample Name: MW 4

Report#/Lab ID#: 131023  
Sample Matrix: water

#### REPORT OF SURROGATE RECOVERY

| Surrogate Compound    | Method | Recovery | Recovery Limit | Data Qualifiers |
|-----------------------|--------|----------|----------------|-----------------|
| 1,2-Dichloroethane-d4 | 8260b  | 90.3     | 80-120         | ---             |
| Toluene-d8            | 8260b  | 97.8     | 88-110         | ---             |

Data Qualifiers: D = Surrogates diluted and X = Surrogates outside advisory recovery limits.

## Exceptions Report:

|                                      |               |                  |
|--------------------------------------|---------------|------------------|
| Report #/Lab ID#: 131023             | Matrix: water | Attn: Ken Dutton |
| Client: Environmental Tech Group     |               |                  |
| Project ID: Darr Angell #4 EOT 2075C |               |                  |
| Sample Name: MW 4                    |               |                  |

### Sample Temperature/Condition <=6°C

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### Sample Bottles & Preservation

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### J flag Discussion

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### Comments pertaining to Data Qualifiers and QC data:

| Parameter | Qualif | Comment                      |
|-----------|--------|------------------------------|
| Ben-one   | J      | See J-flag discussion above. |

### Notes:



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Client: Environmental Tech Group  
Attn: Ken Dutton  
Address: 2540 W. Marland  
Hobbs, NM 88240

Phone: 505 397-4882 FAX: 505 397-4701

Report#/Lab ID#: 131024 Report Date: 07/05/02  
Project ID: Darr Angell #4 EOT-2075C  
Sample Name: MW 5  
Sample Matrix: water  
Date Received: 06/28/2002 Time: 10:30  
Date Sampled: 06/19/2002 Time: 15:00

#### REPORT OF ANALYSIS

| Parameter                    | Result | Units | RQL <sup>5</sup> | Blank | Date     | Method <sup>6</sup> | Data Qual <sup>7</sup> | Prec. <sup>2</sup> | Recov. <sup>3</sup> | CCV <sup>4</sup> | LCS <sup>4</sup> |
|------------------------------|--------|-------|------------------|-------|----------|---------------------|------------------------|--------------------|---------------------|------------------|------------------|
| Volatile organics-8260b/BTEX | ---    |       | ---              |       | 07/01/02 | 8260b               |                        | ---                | ---                 | ---              | ---              |
| Benzene                      | <1     | µg/L  | 1                | <1    | 07/01/02 | 8260b               | J                      | 0.9                | 92.6                | 90.8             | 89.8             |
| Ethylbenzene                 | <1     | µg/L  | 1                | <1    | 07/01/02 | 8260b               |                        | 2.5                | 124.4               | 113.9            | 118.5            |
| m,p Xylenes                  | <1     | µg/L  | 1                | <1    | 07/01/02 | 8260b               |                        | 2.3                | 114                 | 103.7            | 108.3            |
| o-Xylene                     | <1     | µg/L  | 1                | <1    | 07/01/02 | 8260b               |                        | 7.6                | 110.6               | 98.4             | 106.7            |
| Toluene                      | <1     | µg/L  | 1                | <1    | 07/01/02 | 8260b               |                        | 0.4                | 86.9                | 82.1             | 81.5             |

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

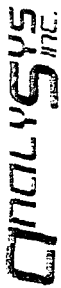
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Respectfully Submitted,

*Richard Laster*

Richard Laster

1. Quality assurance data is for the sample batch 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 Laboratory Control Sample (LCS) results are expressed as the percent (%) recovery of analyte from a known standard or matrix. 5. Reporting Quantitation Limits (RQL), typically at or above the Practical Quantitation Limit (PQL) of the analytical method. 6. Method numbers typically denote USEPA procedures. Less than ("<") values reflect nominal quantitation limits adjusted for any required dilutions. 7. Data Qualifiers are J = analyte potentially present between the PQL and the MDL. B = Analyte detected in associated method blank(s). S1 = MS and/or MSD recovery exceed advisory limits. S2 = Post digestion spike (PDS) recovery exceeds advisory limit. S3 = MS and/or MSD and PDS recoveries exceed advisory limits. P = Precision higher than advisory limit. M = Matrix interference.



4221 Freidrich Lane, Suite 190, Austin, TX 78744 &  
2209 N. Padre Island Dr., Corpus Christi, TX 78408  
(512) 444-5896 • FAX (512) 447-4766

|                                  |                                      |                         |
|----------------------------------|--------------------------------------|-------------------------|
| Client: Environmental Tech Group | Project ID: Darr Angell #4 EOT 2075C | Report#/Lab ID#: 131024 |
| Attn: Ken Dutton                 | Sample Name: MW 5                    | Sample Matrix: water    |

**REPORT OF SURROGATE RECOVERY**

| Surrogate Compound    | Method | Recovery | Recovery Limit | Data Qualifiers |
|-----------------------|--------|----------|----------------|-----------------|
| 1,2-Dichloroethane-d4 | 8260b  | 81.8     | 80-120         | ---             |
| Toluene-d8            | 8260b  | 110      | 88-110         | ---             |

Data Qualifiers: D = Surrogates diluted and X = Surrogates outside advisory recovery limits.



## Exceptions Report:

|                                     |               |                  |
|-------------------------------------|---------------|------------------|
| Report #/Lab ID#: 131024            | Matrix: water | Attn: Ken Dutton |
| Client: Environmental Tech Group    |               |                  |
| Project ID: Dan Angell #4 EOT 2075C |               |                  |
| Sample Name: MW 5                   |               |                  |

### Sample Temperature/Condition $\leq 6^{\circ}\text{C}$

The typical sample temperature criteria (except for metals by ICP, GFAA and AA and a very few other tests) is  $\leq 6^{\circ}\text{C}$ . Possible exceptions include samples submitted to laboratory within such a short time after sampling that cooling measures used in the field and during transport had insufficient time to achieve desired temperatures in the samples (see sample collection and sample receipt times) and samples where the temperature could not be measured due to sample submission in a manner precluding temperature measurement without impacting sample integrity (ex. in a bottle with no cooler).

### Sample Bottles & Preservation

- ☒ Sample received in appropriate container(s) and appear to be appropriately preserved.
- ☐ Sample received in appropriate container(s). State of sample preservation unknown.
- ☐ Sample received in inappropriate container(s) and/or with unknown state of preservation.

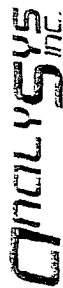
### J Flag Discussion

A J flag data qualifier indicates (as required under TNRC-TRRP reporting requirements) that the raw calculated analyte concentration in the sample (uncorrected for background levels/blanks and other potential sources of sampling and analytical contamination), though less than the Reported Quantitation Limit (RQL) is greater than the Detection Limit. Because the reported result is below the quantitation limit for this project/sample (or test procedure), GC/MS organics results may or MAY NOT have been verified as to the presence and relative ratio of target ions (eg. the material causing the J flag "hit" in such situations may be nothing more than background ion-fragment noise.)

### Comments pertaining to Data Qualifiers and QC data:

| Parameter | Qualif | Comment                      |
|-----------|--------|------------------------------|
| Benzene   | J      | See J-flag discussion above. |

Notes:



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2209 N. Padre Island Dr., Corpus Christi, TX 78408  
(512) 444-5896 • FAX (512) 447-4766

Client: Environmental Tech Group

Attn: Ken Dutton

Address: 2540 W. Marland  
Hobbs, NM 88240

Phone: 505 397-4882 FAX: 505 397-4701

Report#/Lab ID#: 131025 Report Date: 07/05/02

Project ID: Darr Angell #4 EOT 2075C

Sample Name: MW 7

Sample Matrix: water

Date Received: 06/28/2002 Time: 10:30

Date Sampled: 06/19/2002 Time: 15:21

#### REPORT OF ANALYSIS

| Parameter                     | Result | Units | RQL <sup>5</sup> | Blank | Date     | Method <sup>6</sup> | Data Qual <sup>7</sup> | Prec. <sup>2</sup> | Recov. <sup>3</sup> | CCV <sup>4</sup> | I.C.S. <sup>4</sup> |
|-------------------------------|--------|-------|------------------|-------|----------|---------------------|------------------------|--------------------|---------------------|------------------|---------------------|
| Volatiles organics-8260b/BTEX | ---    |       | ---              |       | 07/02/02 | 8260b               | ---                    | ---                | ---                 | ---              | ---                 |
| Benzene                       | <1     | µg/L  | 1                | <1    | 07/02/02 | 8260b               | ---                    | 0.9                | 92.6                | 90.8             | 89.8                |
| Ethylbenzene                  | <1     | µg/L  | 1                | <1    | 07/02/02 | 8260b               | ---                    | 2.5                | 124.4               | 113.9            | 118.5               |
| m,p-Xylenes                   | <1     | µg/L  | 1                | <1    | 07/02/02 | 8260b               | ---                    | 2.3                | 114                 | 103.7            | 108.3               |
| o-Xylene                      | <1     | µg/L  | 1                | <1    | 07/02/02 | 8260b               | ---                    | 7.6                | 110.6               | 98.4             | 106.7               |
| Toluene                       | <1     | µg/L  | 1                | <1    | 07/02/02 | 8260b               | ---                    | 0.4                | 86.9                | 82.1             | 81.5                |

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

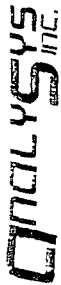
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Respectfully Submitted,

*Richard Laster*

Richard Laster

1. Quality assurance data is for the sample batch 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 Laboratory Control Sample (LCS) results are expressed as the percent (%) recovery of analyte from a known standard or matrix. 5. Reporting Quantitation Limits (RQL), typically at or above the Practical Quantitation Limit (PQL) of the analytical method. 6. Method numbers typically denote USEPA procedures. Less than (" $<$ ") values reflect nominal quantitation limits adjusted for any required dilutions. 7. Data Qualifiers are J = analyte potentially present between the PQL and the MDL, B = Analyte detected in associated method blank(s), S1 =MS and/or MSD recovery exceed advisory limits, S2 =Post digestion spike (PDS) recovery exceeds advisory limit, S3 =MS and/or MSD and PDS recoveries exceed advisory limits, P =Precision higher than advisory limit, M =Matrix interference.



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|                                                      |                                                           |                                                 |
|------------------------------------------------------|-----------------------------------------------------------|-------------------------------------------------|
| Client: Environmental Tech Group<br>Attn: Ken Dutton | Project ID: Darr Angell #4 EOT 2075C<br>Sample Name: MW 7 | Report#/Lab ID#: 131025<br>Sample Matrix: water |
|------------------------------------------------------|-----------------------------------------------------------|-------------------------------------------------|

REPORT OF SURROGATE RECOVERY

| Surrogate Compound    | Method | Recovery | Recovery Limit | Data Qualifiers |
|-----------------------|--------|----------|----------------|-----------------|
| 1,2-Dichloroethane-d4 | 8260b  | 84.5     | 80-120         | ---             |
| Toluene-d8            | 8260b  | 90.6     | 88-110         | ---             |

Data Qualifiers: D- Surrogates diluted and X- Surrogates outside advisory recovery limits.



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(512) 444-5896 • FAX (512) 447-4766

Client: Environmental Tech Group  
Attn: Ken Dutton  
Address: 2540 W. Marland  
Hobbs, NM 88240  
Phone: 505 397-4882 FAX: 505 397-4701

Report#/Lab ID#: 131026 Report Date: 07/05/02  
Project ID: Darr Angell #4 EOT 2075C  
Sample Name: MW 8  
Sample Matrix: water  
Date Received: 06/28/2002 Time: 10:30  
Date Sampled: 06/19/2002 Time: 17:17

#### REPORT OF ANALYSIS

| Parameter                    | Result | Units | RQL <sup>5</sup> | Blank | Date     | Method <sup>6</sup> | Data Qual <sup>7</sup> | Prec. <sup>2</sup> | Recov. <sup>3</sup> | CCV <sup>4</sup> | LCS <sup>4</sup> |
|------------------------------|--------|-------|------------------|-------|----------|---------------------|------------------------|--------------------|---------------------|------------------|------------------|
| Volatile organics-8260b/BTEX | ---    |       | ---              |       | 07/01/02 | 8260b               | ---                    | ---                | ---                 | ---              | ---              |
| Benzene                      | 15.9   | µg/L  | 1                | <1    | 07/01/02 | 8260b               | ---                    | 0.9                | 92.6                | 90.8             | 89.8             |
| Ethylbenzene                 | 205    | µg/L  | 1                | <1    | 07/01/02 | 8260b               | ---                    | 2.5                | 124.4               | 113.9            | 118.5            |
| m,p-Xylenes                  | 32.1   | µg/L  | 1                | <1    | 07/01/02 | 8260b               | ---                    | 2.3                | 114                 | 103.7            | 108.3            |
| o-Xylene                     | 3.59   | µg/L  | 1                | <1    | 07/01/02 | 8260b               | ---                    | 7.6                | 110.6               | 98.4             | 106.7            |
| Toluene                      | <1     | µg/L  | 1                | <1    | 07/01/02 | 8260b               | J                      | 0.4                | 86.9                | 82.1             | 81.5             |

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

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Respectfully Submitted,

*Richard Laster*

Richard Laster

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2209 N. Padre Island Dr., Corpus Christi, TX 78408  
(512) 444-5896 • FAX (512) 447-4766

Client: Environmental Tech Group  
Attn: Ken Dutton

Project ID: Dair Angell #4 EOT 2075C  
Sample Name: MW 8

Report#/Lab ID#: 131026  
Sample Matrix: water

#### REPORT OF SURROGATE RECOVERY

| Surrogate Compound    | Method | Recovery | Recovery Limit | Data Qualifiers |
|-----------------------|--------|----------|----------------|-----------------|
| 1,2 Dichloroethane-d4 | 8260b  | 89       | 80-120         | ---             |
| Toluene-d8            | 8260b  | 97.3     | 88-110         | ---             |

Data Qualifiers: D = Surrogates diluted and X = Surrogates outside advisory recovery limits.

## Exceptions Report:

|                                      |               |                  |
|--------------------------------------|---------------|------------------|
| Report #/Lab ID#: 131026             | Matrix: water | Attn: Ken Dutton |
| Client: Environmental Tech Group     |               |                  |
| Project ID: Darr Angell #4 EOT 2075C |               |                  |
| Sample Name: MW 8                    |               |                  |

### Sample Temperature/Condition <= 6°C

The typical sample temperature criteria (except for metals by ICP, GFAA and AA and a very few other tests) is <= 6°C. Possible exceptions include samples submitted to laboratory within such a short time after sampling that cooling measures used in the field and during transport had insufficient time to achieve desired temperatures in the samples (see sample collection and sample receipt times) and samples where the temperature could not be measured due to sample submission in a manner precluding temperature measurement without impacting sample integrity (ex. in a bottle with no cooler).

### Sample Bottles & Preservation

- ☒ Sample received in appropriate container(s) and appear to be appropriately preserved.
- ☐ Sample received in appropriate container(s). State of sample preservation unknown.
- ☐ Sample received in inappropriate container(s) and/or with unknown state of preservation.

### J flag Discussion

A J flag data qualifier indicates (as required under TNRCC-TRRP reporting requirements) that the raw calculated analyte concentration in the sample (uncorrected for background levels/blanks and other potential sources of sampling and analytical contamination), though less than the Reported Quantitation Limit (RQL) is greater than the Detection Limit. Because the reported result is below the quantitation limit for this project/sample (or test procedure), GC/MS organics results may or MAY NOT have been verified as to the presence and relative ratio of target ions (eg. the material causing the J flag "jit" in such situations may be nothing more than background ion-fragment noise.)

### Comments pertaining to Data Qualifiers and QC data:

| Parameter | Qualifier | Comment                      |
|-----------|-----------|------------------------------|
| Toluene   | J         | See J-flag discussion above. |

Notes:



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Client: Environmental Tech Group

Attn: Ken Dutton

Address: 2540 W. Markland  
Hobbs, NM 88240

Phone: 505 397-4882 FAX: 505 397-4701

Report#/Lab ID#: 131027 Report Date: 07/05/02

Project ID: Darr Angell #4 EOT 2075C

Sample Name: MW 9

Sample Matrix: water

Date Received: 06/28/2002 Time: 10:30

Date Sampled: 06/19/2002 Time: 15:44

#### REPORT OF ANALYSIS

| Parameter                    | Result | Units | RQL <sup>5</sup> | Blank | Date     | Method <sup>6</sup> | Data Qual <sup>7</sup> | Prec. <sup>2</sup> | Recov. <sup>3</sup> | CCV <sup>4</sup> | LCS <sup>4</sup> |
|------------------------------|--------|-------|------------------|-------|----------|---------------------|------------------------|--------------------|---------------------|------------------|------------------|
| Volatile organics 8260b/BTEX | ---    |       | ---              |       | 07/02/02 | 8260b               | ---                    | ---                | ---                 | ---              | ---              |
| Benzene                      | <1     | µg/L  | 1                | <1    | 07/02/02 | 8260b               | ---                    | 0.9                | 92.6                | 90.8             | 89.8             |
| Ethylbenzene                 | <1     | µg/L  | 1                | <1    | 07/02/02 | 8260b               | ---                    | 2.5                | 124.4               | 113.9            | 118.5            |
| m p-Xylenes                  | <1     | µg/L  | 1                | <1    | 07/02/02 | 8260b               | ---                    | 2.3                | 114                 | 103.7            | 108.3            |
| o-Xylene                     | <1     | µg/L  | 1                | <1    | 07/02/02 | 8260b               | ---                    | 7.6                | 110.6               | 98.4             | 106.7            |
| Toluene                      | <1     | µg/L  | 1                | <1    | 07/02/02 | 8260b               | ---                    | 0.4                | 86.9                | 82.1             | 81.5             |

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

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Respectfully Submitted,

*Richard Laster*

Richard Laster

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(512) 444-5896 • FAX (512) 447-4766

Client: Environmental Tech Group  
Attn: Ken Dutton

Project ID: Darr Angell #4 EOT 2075C  
Sample Name: MW 9

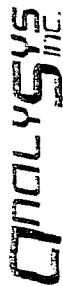
Report#/Lab ID#: 131027  
Sample Matrix: water

#### REPORT OF SURROGATE RECOVERY

| Surrogate Compound    | Method | Recovery | Recovery Limit | Data Qualifiers |
|-----------------------|--------|----------|----------------|-----------------|
| 1,2-Dichloroethane-d4 | 8260b  | 88.1     | 80-120         | ---             |
| Toluene-d8            | 8260b  | 100      | 88-110         | ---             |

Data Qualifiers: D= Surrogates diluted and X= Surrogates outside advisory recovery limits.





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Client: Environmental Tech Group  
Attn: Ken Dutton  
Address: 2540 W. Marland  
Hobbs, NM 88240

Phone: 505 397-4882 FAX: 505 397-4701

Report#/Lab ID#: 131028 Report Date: 07/05/02

Project ID: Darr Angell #4 EOT 2075C

Sample Name: MW 10

Sample Matrix: water

Date Received: 06/28/2002 Time: 10:30

Date Sampled: 06/19/2002 Time: 16:00

#### REPORT OF ANALYSIS

| Parameter                    | Result | Units | RQL <sup>5</sup> | Blank | Date     | Method <sup>6</sup> | Data Qual <sup>7</sup> | Prec. <sup>2</sup> | Recov. <sup>3</sup> | CCV <sup>4</sup> | LCS <sup>4</sup> |
|------------------------------|--------|-------|------------------|-------|----------|---------------------|------------------------|--------------------|---------------------|------------------|------------------|
| Volatile organics-8260b/BTEX | ---    |       | ---              |       | 07/01/02 | 8260b               | ---                    | ---                | ---                 | ---              | ---              |
| Benzene                      | 629    | µg/L  | 10               | <10   | 07/02/02 | 8260b               | ---                    | 0.9                | 92.6                | 90.8             | 89.8             |
| Ethylbenzene                 | 4.29   | µg/L  | 1                | <1    | 07/01/02 | 8260b               | ---                    | 2.5                | 124.4               | 113.9            | 118.5            |
| m,p-Xylenes                  | 66.9   | µg/L  | 1                | <1    | 07/01/02 | 8260b               | ---                    | 2.3                | 114                 | 103.7            | 108.3            |
| o-Xylene                     | <1     | µg/L  | 1                | <1    | 07/01/02 | 8260b               | ---                    | 7.6                | 110.6               | 98.4             | 106.7            |
| Toluene                      | <1     | µg/L  | 1                | <1    | 07/01/02 | 8260b               | ---                    | 0.4                | 86.9                | 82.1             | 81.5             |

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

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Respectfully Submitted,

*Richard Lasler*

Richard Lasler

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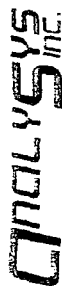
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2209 N. Padre Island Dr., Corpus Christi, TX 78408  
(512) 444-5896 • FAX (512) 447-4766

|                                                      |                                                            |                                                 |
|------------------------------------------------------|------------------------------------------------------------|-------------------------------------------------|
| Client: Environmental Tech Group<br>Attn: Ken Dutton | Project ID: Darr Angell #4 EOT 2075C<br>Sample Name: MW 10 | Report#/Lab ID#: 131028<br>Sample Matrix: water |
|------------------------------------------------------|------------------------------------------------------------|-------------------------------------------------|

**REPORT OF SURROGATE RECOVERY**

| Surrogate Compound    | Method | Recovery | Recovery Limit | Data Qualifiers |
|-----------------------|--------|----------|----------------|-----------------|
| 1,2-Dichloroethane-d4 | 8260b  | 82.1     | 80-120         | ---             |
| Toluene-d8            | 8260b  | 99.5     | 88-110         | ---             |

Data Qualifiers: D = Surrogates diluted and X = Surrogates outside advisory recovery limits.



4221 Freidrich Lane, Suite 190, Austin, TX 78744 &  
2209 N. Padre Island Dr., Corpus Christi, TX 78408  
(512) 444-5896 • FAX (512) 447-4766

**Client:** Environmental Tech Group

**Attn:** Ken Dutton

**Address:** 2540 W. Marland  
Hobbs,

NM 88240

**Phone:** 505 397-4882 **FAX:** 505 397-4701

**Report#/Lab ID#:** 131029 **Report Date:** 07/05/02

**Project ID:** Dair Angell #4 EOT 2075C

**Sample Name:** MW 11

**Sample Matrix:** water

**Date Received:** 06/28/2002 **Time:** 10:30

**Date Sampled:** 06/19/2002 **Time:** 16:18

#### REPORT OF ANALYSIS

| Parameter                    | Result | Units | RQL <sup>5</sup> | Blank | Date     | Method <sup>6</sup> | Data Qual <sup>7</sup> | Prec. <sup>2</sup> | Recov. <sup>3</sup> | CCV <sup>4</sup> | LCS <sup>4</sup> |
|------------------------------|--------|-------|------------------|-------|----------|---------------------|------------------------|--------------------|---------------------|------------------|------------------|
| Volatile organics-8260b/BTEX | ---    |       | ---              |       | 07/01/02 | 8260b               | ---                    | ---                | ---                 | ---              | ---              |
| Benzene                      | 1.71   | µg/L  | 1                | <1    | 07/01/02 | 8260b               | ---                    | 0.9                | 92.6                | 90.8             | 89.8             |
| Ethylbenzene                 | <1     | µg/L  | 1                | <1    | 07/01/02 | 8260b               | ---                    | 2.5                | 124.4               | 113.9            | 118.5            |
| m,p-Xylenes                  | <1     | µg/L  | 1                | <1    | 07/01/02 | 8260b               | ---                    | 2.3                | 114                 | 103.7            | 108.3            |
| o-Xylene                     | <1     | µg/L  | 1                | <1    | 07/01/02 | 8260b               | ---                    | 7.6                | 110.6               | 98.4             | 106.7            |
| Toluene                      | <1     | µg/L  | 1                | <1    | 07/01/02 | 8260b               | ---                    | 0.4                | 86.9                | 82.1             | 81.5             |

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Respectfully Submitted,

*Richard Laster*

Richard Laster

1. Quality assurance data is for the sample batch 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 Laboratory Control Sample (LCS) results are expressed as the percent (%) recovery of analyte from a known standard or matrix. 5. Reporting Quantitation Limits (RQL), typically at or above the Practical Quantitation Limit (PQL) of the analytical method. 6. Method numbers typically denote USEPA procedures. Less than (" $<$ ") values reflect nominal quantitation limits adjusted for any required dilutions. 7. Data Qualifiers are J = analyte potentially present between the PQL and the MDL, R = Analyte detected in associated method blank(s), S1 = MS and/or MSD recovery exceed advisory limits, S2 = Post digestion spike (PDS) recovery exceeds advisory limit, S3 = MS and/or MSD and PDS recoveries exceed advisory limits, P = Precision higher than advisory limit, M = Matrix interference.



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(512) 444-5896 • FAX (512) 447-4766

|                                  |                                      |                          |
|----------------------------------|--------------------------------------|--------------------------|
| Client: Environmental Tech Group | Project ID: Dair Angell #4 EOT 2075C | Report #/Lab ID#: 131029 |
| Attn: Ken Botton                 | Sample Name: MW 11                   | Sample Matrix: water     |

**REPORT OF SURROGATE RECOVERY**

| Surrogate Compound    | Method | Recovery | Recovery Limit | Data Qualifiers |
|-----------------------|--------|----------|----------------|-----------------|
| 1,2-Dichloroethane-d4 | 8260b  | 80.3     | 80-120         | ---             |
| Toluene-d8            | 8260b  | 103      | 88-110         | ---             |

Data Qualifiers: D= Surrogates diluted and X= Surrogates outside advisory recovery limits.



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(512) 444-5896 • FAX (512) 447-4766

Client: Environmental Tech Group  
Attn: Ken Dutton  
Address: 2540 W. Marland  
Hobbs, NM 88240

Phone: 505 397-4882 FAX: 505 397-4701

Report#/Lab ID#: 131030 Report Date: 07/05/02

Project ID: Darr Angell #4 EOT 2075C

Sample Name: MW 12

Sample Matrix: water

Date Received: 06/28/2002 Time: 10:30

Date Sampled: 06/19/2002 Time: 16:38

#### REPORT OF ANALYSIS

| Parameter                    | Result | Units | RQL <sup>5</sup> | Blank | Date     | Method <sup>6</sup> | Data Qual <sup>7</sup> | Prec. <sup>2</sup> | Recov. <sup>3</sup> | CCV <sup>4</sup> | LCS <sup>4</sup> |
|------------------------------|--------|-------|------------------|-------|----------|---------------------|------------------------|--------------------|---------------------|------------------|------------------|
| Volatile organics-8260b/BTEX | ---    |       | ---              |       | 07/02/02 | 8260b               | ---                    | ---                | ---                 | ---              | ---              |
| Benzene                      | <1     | µg/L  | 1                | <1    | 07/02/02 | 8260b               | J                      | 0.9                | 92.6                | 90.8             | 89.8             |
| Ethylbenzene                 | <1     | µg/L  | 1                | <1    | 07/02/02 | 8260b               | ---                    | 2.5                | 124.4               | 113.9            | 118.5            |
| m-p-Xylenes                  | <1     | µg/L  | 1                | <1    | 07/02/02 | 8260b               | ---                    | 2.3                | 114                 | 103.7            | 108.3            |
| o-Xylene                     | <1     | µg/L  | 1                | <1    | 07/02/02 | 8260b               | ---                    | 7.6                | 110.6               | 98.4             | 106.7            |
| Toluene                      | <1     | µg/L  | 1                | <1    | 07/01/02 | 8260b               | ---                    | 0.4                | 86.9                | 82.1             | 81.5             |

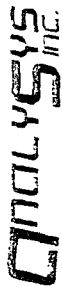
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Respectfully Submitted,

*Richard Laster*

Richard Laster

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|                                  |                                      |                         |
|----------------------------------|--------------------------------------|-------------------------|
| Client: Environmental Tech Group | Project ID: Dart Angell #4 EOT 2075C | Report#/Lab ID#: 131030 |
| Attn: Ken Dutton                 | Sample Name: MW 12                   | Sample Matrix: water    |

**REPORT OF SURROGATE RECOVERY**

| Surrogate Compound    | Method | Recovery | Recovery Limit | Data Qualifiers |
|-----------------------|--------|----------|----------------|-----------------|
| 1,2-Dichloroethane-d4 | 8260b  | 109      | 80-120         | ---             |
| Toluene-d8            | 8260b  | 109      | 88-110         | ---             |

Data Qualifiers: D= Surrogates diluted and X= Surrogates outside advisory recovery limits.

# Exceptions Report:

|                                      |               |
|--------------------------------------|---------------|
| Report #/Lab ID#: 131030             | Matrix: water |
| Client: Environmental Tech Group     |               |
| Project ID: Darr Angell #4 EOT 2075C |               |
| Sample Name: MW 12                   |               |
| Attn: Ken Dutton                     |               |

## Sample Temperature/Condition <= 6°C

The typical sample temperature criteria (except for metals by ICP, GFAA and AA and a very few other tests) is <= 6°C. Possible exceptions include samples submitted to laboratory within such a short time after sampling that cooling measures used in the field and during transport had insufficient time to achieve desired temperatures in the samples (see sample collection and sample receipt times) and samples where the temperature could not be measured due to sample submission in a manner precluding temperature measurement without impacting sample integrity (ex. in a bottle with no cooler).

## Sample Bottles & Preservation

- ☒ Sample received in appropriate container(s) and appear to be appropriately preserved.
- ☐ Sample received in appropriate container(s). State of sample preservation unknown.
- ☐ Sample received in inappropriate container(s) and/or with unknown state of preservation.

## J flag Discussion

A J flag data qualifier indicates (as required under TNRCC-TRRP reporting requirements) that the raw calculated analyte concentration in the sample (uncorrected for background levels/blanks and other potential sources of sampling and analytical contamination), though less than the Reported Quantitation Limit (RQL) is greater than the Detection Limit. Because the reported result is below the quantitation limit for this project/sample (or test procedure), GC/MS organics results may or MAY NOT have been verified as to the presence and relative ratio of target ions (eg. the material causing the J flag "hit" in such situations may be nothing more than background ion-fragment noise.)

## Comments pertaining to Data Qualifiers and QC data:

| Parameter | Qualifier | Comment                      |
|-----------|-----------|------------------------------|
| Benzene   | J         | See J-flag discussion above. |

Notes:



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Client: Environmental Tech Group  
Attn: Ken Dutton  
Address: 2540 W. Marland  
Hobbs, NM 88240

Phone: 505 397-4882 FAX: 505 397-4701

Report#/Lab ID#: 131031 Report Date: 07/05/02  
Project ID: Darr Angell #4 EOT 2075C  
Sample Name: MW 13  
Sample Matrix: water  
Date Received: 06/28/2002 Time: 10:30  
Date Sampled: 06/19/2002 Time: 14:00

#### REPORT OF ANALYSIS

| Parameter                    | Result | Units | RQL <sup>5</sup> | Blank | Date     | Method <sup>6</sup> | Data Qual <sup>7</sup> | Prec. <sup>2</sup> | Recov. <sup>3</sup> | CCV <sup>4</sup> | LCS <sup>4</sup> |
|------------------------------|--------|-------|------------------|-------|----------|---------------------|------------------------|--------------------|---------------------|------------------|------------------|
| Volatile organics 8260b BTEX | ---    |       | ---              |       | 07/01/02 | 8260b               | ---                    | ---                | ---                 | ---              | ---              |
| Benzene                      | 7.5    | µg/L  | 1                | <1    | 07/01/02 | 8260b               | ---                    | 0.9                | 92.6                | 90.8             | 89.8             |
| Ethylbenzene                 | <1     | µg/L  | 1                | <1    | 07/01/02 | 8260b               | ---                    | 2.5                | 124.4               | 113.9            | 118.5            |
| m,p-Xylenes                  | <1     | µg/L  | 1                | <1    | 07/01/02 | 8260b               | ---                    | 2.3                | 114                 | 103.7            | 108.3            |
| o-Xylene                     | <1     | µg/L  | 1                | <1    | 07/01/02 | 8260b               | ---                    | 7.6                | 110.6               | 98.4             | 106.7            |
| Toluene                      | <1     | µg/L  | 1                | <1    | 07/01/02 | 8260b               | ---                    | 0.4                | 86.9                | 82.1             | 81.5             |

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

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Respectfully Submitted,

*Richard Laster*

Richard Laster

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|                                  |                                      |                         |
|----------------------------------|--------------------------------------|-------------------------|
| Client: Environmental Tech Group | Project ID: Dart Angell #4 EOT 2075C | Report#/Lab ID#: 131031 |
| Attn: Ken Dutton                 | Sample Name: MW 13                   | Sample Matrix: water    |

**REPORT OF SURROGATE RECOVERY**

| Surrogate Compound    | Method | Recovery | Recovery Limit | Data Qualifiers |
|-----------------------|--------|----------|----------------|-----------------|
| 1,2 Dichloroethane-d4 | 8260b  | 95.9     | 80-120         | ---             |
| Toluene-d8            | 8260b  | 99.9     | 88-110         | ---             |

Data Qualifiers: D= Surrogates diluted and X= Surrogates outside advisory recovery limits.



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Client: Environmental Tech Group  
Attn: Ken Dutton  
Address: 2540 W. Marland  
Hobbs, NM 88240

Phone: 505 397-4882 FAX: 505 397-4701

Report#/Lab ID#: 131032 Report Date: 07/05/02  
Project ID: Dart Angell #4 EOT 2075C  
Sample Name: RW 5  
Sample Matrix: water  
Date Received: 06/28/2002 Time: 10:30  
Date Sampled: 06/19/2002 Time: 17:45

#### REPORT OF ANALYSIS

| Parameter                    | Result | Units | RQL <sup>5</sup> | Blank | Date     | Method <sup>6</sup> | Data Qual <sup>7</sup> | Prec. <sup>2</sup> | Recov. <sup>3</sup> | CCV <sup>4</sup> | LCS <sup>4</sup> |
|------------------------------|--------|-------|------------------|-------|----------|---------------------|------------------------|--------------------|---------------------|------------------|------------------|
| Volatile organics-8260b BTEX | ---    |       | ---              |       | 07/01/02 | 8260b               | ---                    | ---                | ---                 | ---              | ---              |
| Benzene                      | 5.63   | µg/L  | 1                | <1    | 07/01/02 | 8260b               | ---                    | 0.9                | 92.6                | 90.8             | 89.8             |
| Ethylbenzene                 | 11.7   | µg/L  | 1                | <1    | 07/01/02 | 8260b               | ---                    | 2.5                | 124.4               | 113.9            | 118.5            |
| m,p-Xylenes                  | 17.4   | µg/L  | 1                | <1    | 07/01/02 | 8260b               | ---                    | 2.3                | 114                 | 103.7            | 108.3            |
| o-Xylene                     | 6.28   | µg/L  | 1                | <1    | 07/01/02 | 8260b               | ---                    | 7.6                | 110.6               | 98.4             | 106.7            |
| Toluene                      | 14.5   | µg/L  | 1                | <1    | 07/01/02 | 8260b               | ---                    | 0.4                | 86.9                | 82.1             | 81.5             |

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

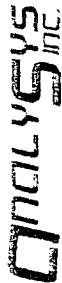
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Respectfully Submitted,

*Richard Laster*

Richard Laster

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Client: Environmental Tech Group  
Attn: Ken Dutton

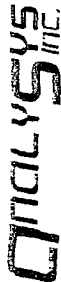
Project ID: Darr Angell #4 EOT 2075C  
Sample Name: RW 5

Report#/Lab ID#: 131032  
Sample Matrix: water

REPORT OF SURROGATE RECOVERY

| Surrogate Compound    | Method | Recovery | Recovery Limit | Data Qualifiers |
|-----------------------|--------|----------|----------------|-----------------|
| 1,2-Dichloroethane-d4 | 8260b  | 113      | 80-120         | ---             |
| Toluene-d8            | 8260b  | 96.2     | 88-110         | ---             |

Data Qualifiers: D = Surrogates diluted and X = Surrogates outside advisory recovery limits.



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Client: Environmental Tech Group  
Attn: Ken Dutton  
Address: 2540 W. Marland  
Hobbs, NM 88240

Phone: 505 397-4882 FAX: 505 397-4701

Report#/Lab ID#: 131033 Report Date: 07/05/02

Project ID: Darr Angell #4 EOT 2075C

Sample Name: EB 1

Sample Matrix: water

Date Received: 06/28/2002 Time: 10:30

Date Sampled: 06/19/2002 Time: 18:00

#### REPORT OF ANALYSIS

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

| Parameter                    | Result | Units | RQL <sup>5</sup> | Blank | Date     | Method <sup>6</sup> | Data Qual <sup>7</sup> | Prec. <sup>2</sup> | Recov. <sup>3</sup> | CCV <sup>4</sup> | ICS <sup>4</sup> |
|------------------------------|--------|-------|------------------|-------|----------|---------------------|------------------------|--------------------|---------------------|------------------|------------------|
| Volatile organics-8260b/BTEX | ---    |       | ---              |       | 07/01/02 | 8260b               | ---                    | ---                | ---                 | ---              | ---              |
| Benzene                      | <1     | µg/L  | 1                | <1    | 07/01/02 | 8260b               | ---                    | 0.9                | 92.6                | 90.8             | 89.8             |
| Ethylbenzene                 | <1     | µg/L  | 1                | <1    | 07/01/02 | 8260b               | ---                    | 2.5                | 124.4               | 113.9            | 118.5            |
| m,p-Xylenes                  | <1     | µg/L  | 1                | <1    | 07/01/02 | 8260b               | ---                    | 2.3                | 114                 | 103.7            | 108.3            |
| o-Xylene                     | <1     | µg/L  | 1                | <1    | 07/01/02 | 8260b               | ---                    | 7.6                | 110.6               | 98.4             | 106.7            |
| Toluene                      | <1     | µg/L  | 1                | <1    | 07/01/02 | 8260b               | ---                    | 0.4                | 86.9                | 82.1             | 81.5             |

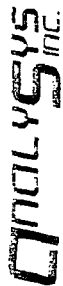
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*Richard Laster*

Richard Laster

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(512) 444-5896 • FAX (512) 447-4766

Client: Environmental Tech Group  
Attn: Ken Dutton

Project ID: Dart Angell #4 EOT 2075C  
Sample Name: EB 1

Report#/Lab ID#: 131033  
Sample Matrix: water

#### REPORT OF SURROGATE RECOVERY

| Surrogate Compound    | Method | Recovery | Recovery Limit | Data Qualifiers |
|-----------------------|--------|----------|----------------|-----------------|
| 1,2-Dichloroethane-d4 | 8260b  | 86.8     | 80-120         | ---             |
| Toluene-d8            | 8260b  | 103      | 88-110         | ---             |

Data Qualifiers: D= Surrogates diluted and X= Surrogates outside advisory recovery limits.

1044-444 (205) X 1044-444 (205) 1044-444 (205)

Project Name/Proj# Disc Air // #4/ Sampler:

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

Deletion Cases

For this to be finally accepted, all analyses will be conducted using ASI's method of choice and all data will be reported to ASI, amount to per cent. For all ASIs, unless specific analytical parameters are specified on this chain of custody or attached to this chain of custody, ASI will default to Priority Polymers or ASI's own. Specific compound lists must be supplied for all GC procedures.

$T_{mp}: 4.0^{\circ}C$

agreement by the

*(continued from page 6)*

then a group of above described samples to AnalySys, Inc. for analytical testing constitutes agreement by buyer/supplier to AnalySys, Inc.'s standard terms, conditions and limitations of use.

CoC 099 Z 172

**Bill to (if different):**

Company Name EOTT

Address

City \_\_\_\_\_ State \_\_\_\_\_ Zip \_\_\_\_\_

ALIN.

# Phone

0

*[Handwritten signature]*

*Melospiza cinerea*

|   |   |   |   |
|---|---|---|---|
| 1 | 2 | 3 | 4 |
|---|---|---|---|

[illegible]

| Sample Relinquished By |             |                | Sample Received By |             |      |
|------------------------|-------------|----------------|--------------------|-------------|------|
| Name                   | Affiliation | Date           | Name               | Affiliation | Date |
| <i>[Signature]</i>     | <i>ETGI</i> | <i>6/27/02</i> |                    |             |      |
| <i>[Signature]</i>     | <i>ETGI</i> | <i>6/27/02</i> |                    |             |      |

Embedding of above described samples to AnalySys, Inc.'s standard terms /

**Client:** Environmental Tech Group  
**Attn:** Ken Dutton  
**Address:** 2540 W. Marland  
Hobbs,  
NM 88240  
**Phone:** 505 397-4882 **FAX:** 505 397-4701

**Report#/Lab ID#:** 129392 **Report Date:** 05/16/02  
**Project ID:** EOT 2075R Darr Angell #4  
**Sample Name:** SB-8 5B-10 C.C. L13102  
**Sample Matrix:** water  
**Date Received:** 05/14/2002 **Time:** 10:05  
**Date Sampled:** 05/10/2002 **Time:** 12:40

**REPORT OF ANALYSIS**

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

| Parameter                     | Result | Units | RQL <sup>5</sup> | Blank | Date     | Method <sup>6</sup> | Data Qual <sup>7</sup> | Prec. <sup>2</sup> | Recov. <sup>3</sup> | CCV <sup>4</sup> | LCS <sup>4</sup> |
|-------------------------------|--------|-------|------------------|-------|----------|---------------------|------------------------|--------------------|---------------------|------------------|------------------|
| Volatiles organics 8260b/BTEX | ---    |       | ---              |       | 05/15/02 | 8260b               | ---                    | ---                | ---                 | ---              | ---              |
| Benzene                       | <1     | µg/L  | 1                | <1    | 05/15/02 | 8260b               | ---                    | 0.6                | 87.4                | 81.1             | 87.1             |
| Ethylbenzene                  | <1     | µg/L  | 1                | <1    | 05/15/02 | 8260b               | ---                    | 1.2                | 109.3               | 112.8            | 106.2            |
| m,p Xylenes                   | <1     | µg/L  | 1                | <1    | 05/15/02 | 8260b               | ---                    | 1.8                | 116.5               | 119              | 113.3            |
| o-Xylene                      | <1     | µg/L  | 1                | <1    | 05/15/02 | 8260b               | ---                    | 0.3                | 113.7               | 115.7            | 110              |
| Toluene                       | <1     | µg/L  | 1                | <1    | 05/15/02 | 8260b               | ---                    | 11                 | 109.3               | 91.1             | 97.3             |

This analytical report is respectfully submitted by AnalySys, Inc. The enclosed results have been carefully reviewed and, to the best of my knowledge, the analytical results are consistent with AnalySys, Inc.'s Quality Assurance/Quality Control Program. © Copyright 2000, AnalySys, Inc., Austin, TX. All rights reserved. No part of this publication may be reproduced or transmitted in any form or by any means without the express written consent of AnalySys, Inc.

Respectfully Submitted,  
*Richard Laster*  
Richard Laster

1. Quality assurance data is for the sample batch 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 Laboratory Control Sample (LCS) results are expressed as the percent (%) recovery of analyte from a known standard or matrix. 5. Reporting Quantitation Limits (RQL), typically at or above the Practical Quantitation Limit (PQL) of the analytical method. 6. Method numbers typically denote USEPA procedures. Less than ("<") values reflect nominal quantitation limits adjusted for any required dilutions. 7. Data Qualifiers are J = analyte potentially present between the PQL and the MDL, B = Analyte detected in associated method blank(s). S1 = MS and/or MSD recovery exceed advisory limits. S2 = Post digestion spike (PDS) recovery exceeds advisory limit. S3 = MS and/or MSD and PDS recoveries exceed advisory limits. P = Precision higher than advisory limit. M = Matrix interference.



|                                                      |                                                                                 |                                                |
|------------------------------------------------------|---------------------------------------------------------------------------------|------------------------------------------------|
| Client: Environmental Tech Group<br>Attn: Ken Dutton | Project ID: EOT 2075R Darr Angell #4<br>Sample Name: SB-8 (60') 50' 10' 20' 30' | Report#/Lab ID#: 120301<br>Sample Matrix: soil |
|------------------------------------------------------|---------------------------------------------------------------------------------|------------------------------------------------|

## REPORT OF SURROGATE RECOVERY

| Surrogate Compound    | Method    | Recovery | Recovery Limit | Data Qualifiers |
|-----------------------|-----------|----------|----------------|-----------------|
| Nitrobenzene-d5       | 8015 mod. | 125      | 50-150         | ---             |
| p-Terphenyl           | 8015 mod. | 109      | 50-150         | ---             |
| 1,2-Dichloroethane-d4 | 8260b     | 101      | 65-115         | ---             |
| Toluene-d8            | 8260b     | 103      | 50-120         | ---             |

Data Qualifiers: D= Surrogates diluted and X= Surrogates outside advisory recovery limits.



**APPENDIX E**  
**REQUEST TO BACKFILL LETTER**

March 12, 2002

Mr. Bill Olson  
New Mexico Oil Conservation Division  
Environmental Bureau  
1220 South St. Francis Drive  
Santa Fe, NM 87505

**RE: Request to Backfill Excavation  
Darr Angell No. 4 Site  
Lea County, New Mexico  
ETGI Project No. EOT 2075R**

Mr. Olson:

Environmental Technology Group, Inc. (ETGI) has conducted activities as outlined in the *General Work Plan for Remediation of EOTT Pipeline Spills, Leaks and Releases in New Mexico* (GWPR) approved by NMOCD on August 1, 2000, at the above referenced site. ETGI, acting for the EOTT Energy Corporation (EOTT), requests approval from the New Mexico Oil Conservation Division (NMOCD) for backfilling of the excavated area located on the above referenced site (Figure 1).

The site is located in the NW  $\frac{1}{4}$  of the NE  $\frac{1}{4}$ , Section 11 Township 15 South, Range 37 East and the SW  $\frac{1}{4}$  of the SE  $\frac{1}{4}$ , Section 02 Township 15 South, Range 37 East, in Lea County, New Mexico. A detailed description of the site and activities conducted to date are found in the Site Investigation Report, February 2001 (S.I.R.).

ETGI supervised the excavation of hydrocarbon impacted soil from the pipeline right of way until headspace readings from wall samples registered less than or equal to 10 parts per million on a Photoionization detector (Figure 2). Approximately 6,650 cubic yards of soil was generated during excavation activities and stockpiled on-site. This soil will be moved to a treatment pad on-site and subjected to mixing and blending activities. The lower limit of the excavation coincides with very hard caliche layer. Attempts to continue excavation with a track hoe through this lower boundary layer were unsuccessful. At this time, ETGI on behalf of EOTT is requesting approval from the NMOCD to proceed with backfilling activities utilizing clean soil obtained from the landowner. The District 1 NMOCD office in Hobbs, New Mexico will be notified at least 48 hours prior to initiation of backfilling activities. An automated oil-skimming remediation system utilizing six product recovery wells has been installed on-site to minimize further adverse impacts to site groundwater. Weekly recovery system operation and maintenance checks are being conducted to monitor product recovery rates and system performance. Quarterly groundwater sampling events are being conducted to monitor the dissolved phase plume. A Site Location Map and Site Plan map are attached showing locations of the field screening sampling for your review.

A copy of this letter has also been provided to the NMOCD District office in Hobbs, NM. If you have any questions or comments concerning this excavation backfill request, please contact me at (505) 397-4882. Thank you for your time and consideration.

Sincerely,

A handwritten signature in black ink, appearing to read "Ken Dutton", written in a cursive style.

Ken Dutton

New Mexico Office Manager

Senior Project Manager

**ATTACHMENTS:**

Figure 1: Site Location Map

Figure 2: Site Plan/Field Screening Location Map