WSMR 2002

DEPARTMENT OF THE ARMY
U.S. ARMY WHITE SANDS MISSILE RANGE
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WHITE SANDS MISSILE RANGE, NEW MEXICO 88002-5000

REPLY TO
ATTENTION OF
Environment and Safety Directorate

May 22, 2002

Ms. Cheryl Frischkorn
Hazardous and Radioactive Materials Program
New Mexico Environment Department
2905 East Rodeo Park Road, Building 1
Santa Fe, New Mexico 87505-6303

Dear Ms. Frischkorn:

In March 2000, White Sands Missile Range reported a release from a fueling station at the High Energy Laser Systems Test Facility (HELSTF). The release, as reported to the New Mexico Environment Depart (NMED) Groundwater Bureau, had occurred at a site called the Technical Support Area (TSA) fueling station. The release was reported to the NMED Groundwater Bureau because they were the lead agency regarding releases of fuels from storage facilities at the time. Subsequently, the Groundwater Bureau provided guidance on how to investigate and ultimately mitigate the effects of the release reported. Per their guidance, we implemented an investigation in April 2000 to determine the existence of contamination, delineate extent, and estimate the volume of fuel released. As part of the fieldwork completed in October 2000, a soil vacuum system was also used to capture the majority of the released fuel at the point of fuel release where the fuel concentration in soil was the greatest. We believe that the timely investigation of the fuel release and the immediate implementation of the soil vacuum system allowed us to satisfactorily mitigate the site since we were able to use of the investigation results to maximize the amount of fuel recovered. The data from our investigation efforts to date and the results of our fuel recovery efforts are presented in the enclosed report.

We hope that the enclosed report satisfactorily addresses any questions regarding our completed investigation and mitigation efforts at the HELSTF TSA Site. Should you have any further questions please contact Mr. Hector Magallanes at (505) 678-2224.

Sincerely,

Thomas A. Ladd

Thomas A. Ladd
Director, Environment and
Safety Directorate

Enclosure

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HELSTF TECHNICAL SUPPORT AREA
PETROLEUM/OIL/LUBRICANTS STATION INVESTIGATION

Submitted to:

U.S. Army
White Sands Missile Range
Environment and Safety Directorate
White Sands Missile Range, New Mexico 88002-5048

January 2002

Submitted by:

MEVATEC Corporation
Building 126
White Sands Missile Range, New Mexico 88002

EXECUTIVE SUMMARY

A release of nearly 1,500 gallons (5,680 liters) of unleaded gasoline from a dispenser facility at the High Energy Laser Systems Test Facility Technical Support Area Petroleum/Oil/Lubricants Station was determined by White Sands Missile Range (White Sands) and New Mexico Environment Department (NMED) Ground Water Quality Bureau officials to be significant and requiring investigation and possibly remediation. In order to comply with NMED direction to determine the extent of contamination and the possible impact to groundwater, the White Sands Environment and Safety Directorate – Environmental Compliance Division (WS-ES-EC) initiated a site investigation in March 2000. Correspondence between White Sands and NMED is attached as Appendix A.

The phased investigation was comprised of two soil sampling efforts, shallow hand augering and deeper hollow stem drilling, to define the lateral and vertical migration of gasoline. Results of the shallow hand augering investigation indicated that further investigation using a hollow stem auger drilling rig was required. Hollow stem auger was also used to determine the depth to groundwater and background quality of the regional aquifer by the emplacement of three monitor wells. Contract laboratories analyzed soil and groundwater samples collected during the investigation in May and June 2000. Regional groundwater resources were encountered at a depth of approximately 90 feet (27.4 meters) below ground surface (bgs) and was determined to be non-potable due to the presence of concentrations of total dissolved solids (TDS) exceeding 8,000 milligrams per liter (mg/L). An additional shallow perched water-bearing zone was encountered at approximately 34 feet (10.4 meters) bgs and was also determined to be non-potable due to TDS concentrations of 26,000 mg/L.

Based on the analytical results of the investigation, the gasoline release appears to be held by surface tension within the contaminated soil zone extending approximately 30 feet (9.1 meters) vertically from the near-surface source. The regional groundwater resource was not affected by the subject release. However, the gasoline constituents benzene and toluene were detected in the shallow non-potable perched water bearing zone at concentrations above the New Mexico Water Quality Control Commission Standards (20 New Mexico Administrative Code 6.2, Section 3103).

During July 2000, White Sands initiated a soil vapor extraction (SVE) pilot study to determine the efficacy of this method for contaminant removal. The results of the pilot study indicated that SVE would be an effective method of remediation at the facility. White Sands accordingly installed and operated a soil vapor extraction system at the site for a period of four months. It is estimated that approximately 1,790 gallons (6,775 liters) of gasoline were removed from the subsurface. Analytical results of air samples collected from the vapor extraction well during operation of the SVE system indicated that subsurface TPH concentrations were reduced from approximately 30,700 parts per million (ppm) to approximately 2,200 ppm. Additionally, it is noted that subsurface benzene and toluene concentrations were significantly reduced as well. Obviously additional soil and groundwater sampling will be required in the near future to determine the effectiveness of the remedial action, verify that gasoline has not reached the regional aquifer, and potentially collect additional data for a site risk assessment. After receipt of NMED comments, White Sands will initiate additional actions at the site as required.

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ACRONYMS

AQB	(NMED) Air Quality Bureau
AST	aboveground storage tank
ASTM	American Society for the Testing of Materials
BTEX	benzene, toluene, ethylbenzene, xylene
cm	centimeter
EPA	U.S. Environmental Protection Agency
FID	flame-ionization detector
ft	foot, feet
GRO	gasoline range only
HELSTF	High Energy Laser Systems Test Facility
HMW	HELSTF monitor well (groundwater)
HVW	HELSTF vapor well (soil gas)
ICE	internal combustion engine
IDW	investigation-derived waste
kg	kilogram(s)
km	kilometer
lbs	pound(s)
m	meter(s)
MTBE	methyl-tert butyl ether
mg/L	milligrams per liter
mi	mile(s)
MW	(groundwater) monitoring well
NMED	New Mexico Environment Department
pH	negative log of hydrogen concentration
PID	photo ionization detector
POL	petroleum, oils, lubricants
PPE	personal protective equipment
QA	quality assurance
REC	Record of Environmental Consideration
RPPBA	Real Property Planning Board Action
SB	soil boring
SM	Standard Method
SVE	soil vapor extraction
TDS	total dissolved solids
TPH	total petroleum hydrocarbons
TSA	Technical Support Area
U.S.	United States of America
USGS	United States Geological Survey
WQCC	(New Mexico) Water Quality Control Commission
White Sands	White Sands Missile Range
WS-ES	Environment and Safety Directorate
WS-ES-EC	Environmental Compliance Division
yd	yard(s)

HELSTF TECHNICAL SUPPORT AREA PETROLEUM / OIL / LUBRICANTS STATION INVESTIGATION

1.0 INTRODUCTION

On 16 March 2000, the White Sands Missile Range (White Sands) Environmental Compliance Division (WS-ES-EC) was notified that a release of unleaded gasoline had occurred at the Technical Support Area (TSA) Petroleum/Oil/Lubricants (POL) Station at the High Energy Laser System Test Facility (HELSTF). The location of the release site is shown in Figures 1-1 and 1-2. The New Mexico Environment Department's (NMED) Ground Water Quality Bureau was immediately notified in accordance with Section 1203 of the New Mexico Water Quality Control Commission (WQCC) Regulations [20 New Mexico Administrative Code (NMAC) 6.2]. NMED personnel directed White Sands to perform studies to determine the extent of contamination. Copies of correspondence between NMED and White Sands are in Appendix A.

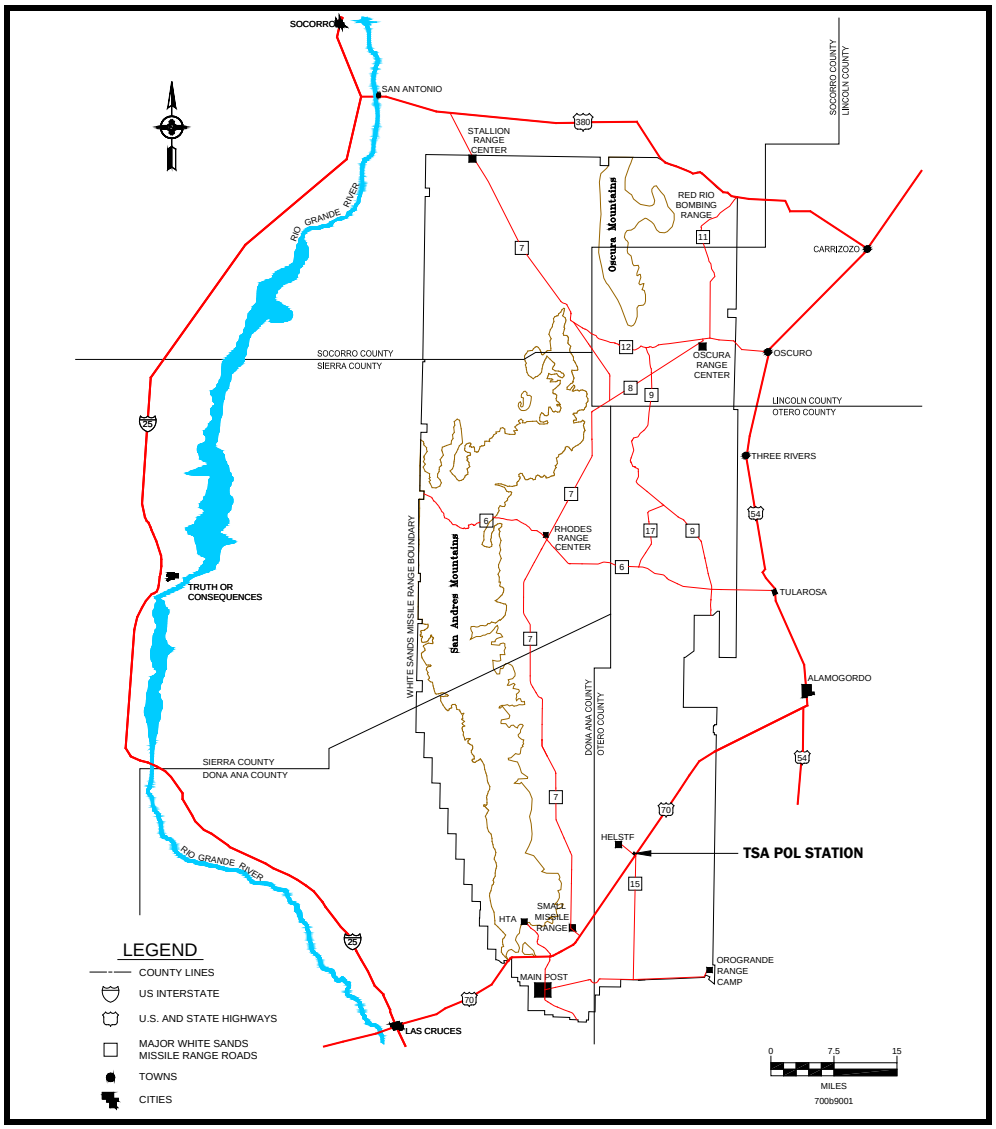

Figure 1-1. Location of the Investigation on White Sands Missile Range.

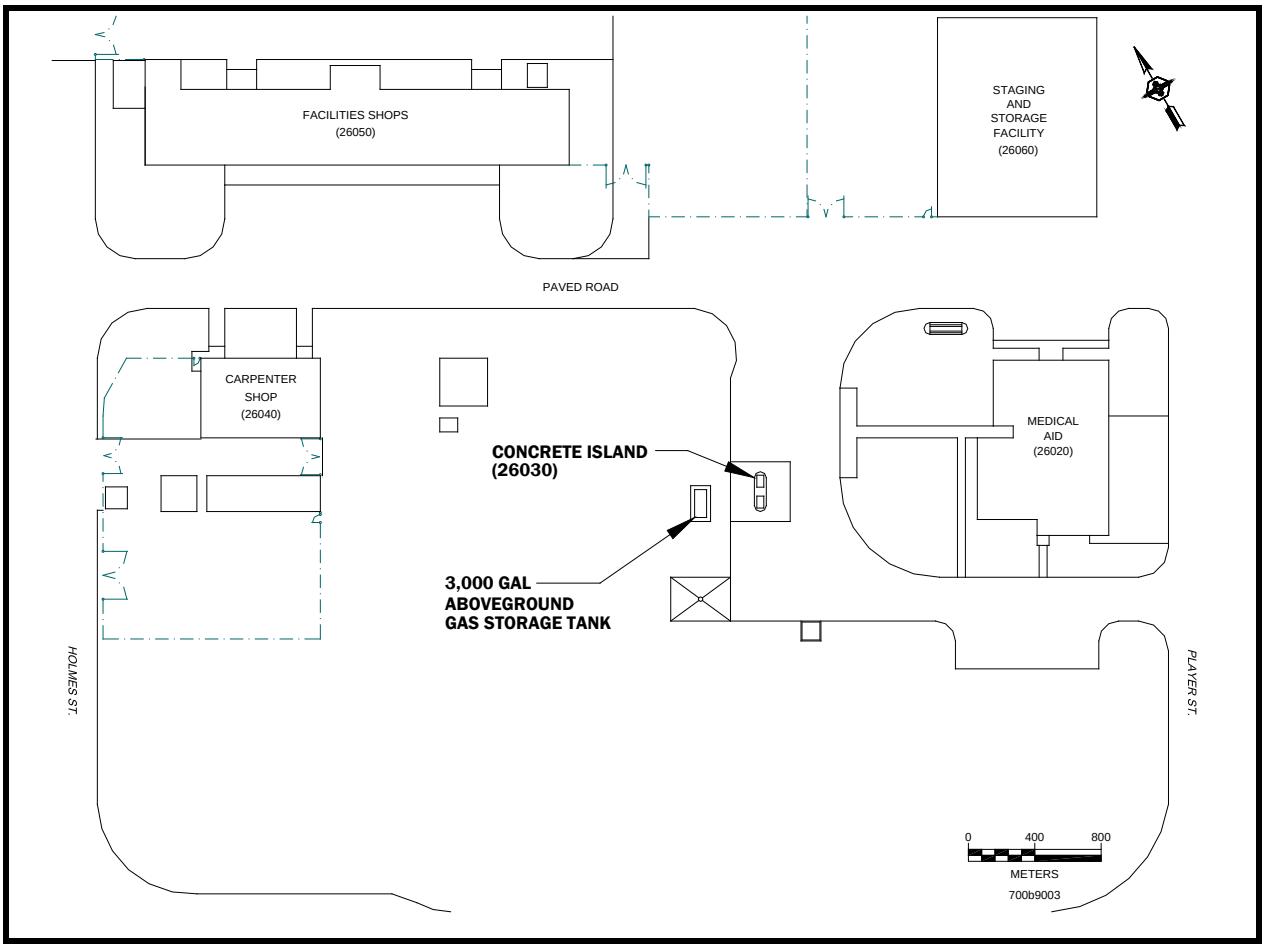

Figure 1-2. Site Plan of the HELSTF Technical Support Area.

Immediately upon notification of the release, White Sands performed an initial hand auger investigation to define the extent of the area affected. Based on the results of the initial samples, it was determined that a full-scale soil and groundwater investigation was warranted. This report summarizes the initial hand auger investigation, the ensuing soil and groundwater investigation using hollow stem auger drilling methods, the potential risk to human health and the surrounding environment, and corrective action performed at the site.

2.0 BACKGROUND

2.1 Site Description/Operational History

The HELSTF TSA POL Station is located approximately 20 miles (mi) [32 kilometers (km)] east-northeast of the White Sands Main Post Headquarters on U.S. Highway 70 in Otero County (Figure 1-1). The fuel release occurred in Section 35.1.2.4 of Township 18 South, Range 6 East. The Universal Transverse Mercator coordinate for the project site is 3609642.8 Northing and 377867.5 Easting. HELSTF is a secured area and the TSA is approximately 300 yards (yd) [275 meters (m)] beyond the 24-hr guard checkpoint adjacent to U.S. Highway 70. Site photographs are in Appendix B.

The pump island at the TSA includes one dispenser supplied by the 3,000 gallon (gal) [11,350 liter (L)] capacity aboveground storage tank (AST), which is located approximately 35 feet (ft) (10 m) west of the dispenser island (Figure 1-2). The single AST serving the facility is mounted within a concrete secondary containment structure and stores unleaded gasoline for motor vehicle fueling. Leaks were not observed from the aboveground appurtenances and the release was not visually detected. Initial reports that 750 gal (2,840 L) of fuel were missing from inventory suggested that a release had occurred in the underground supply lines to the dispenser. A detailed audit of the fuel deliveries versus consumption fixed the final loss estimate at 1,485 gal (5,620 L) prior to shutdown of the system in March 2000.

2.2 Discussion of Geologic and Hydrogeologic Setting

The following presents an overview of the regional geologic and hydrogeologic setting at and surrounding the HELSTF TSA. Refer to Section 5.1 for a discussion of the local geologic and hydrogeologic findings from the investigation.

2.2.1 Regional Geology

White Sands Missile Range lies within the Mexican Highland Section of the Basin and Range Province, and is characterized by a series of tilted fault blocks forming longitudinal, asymmetric ridges or mountains and broad intervening basins. Figure 2-1 presents a generalized east-west cross section of the Tularosa Basin.

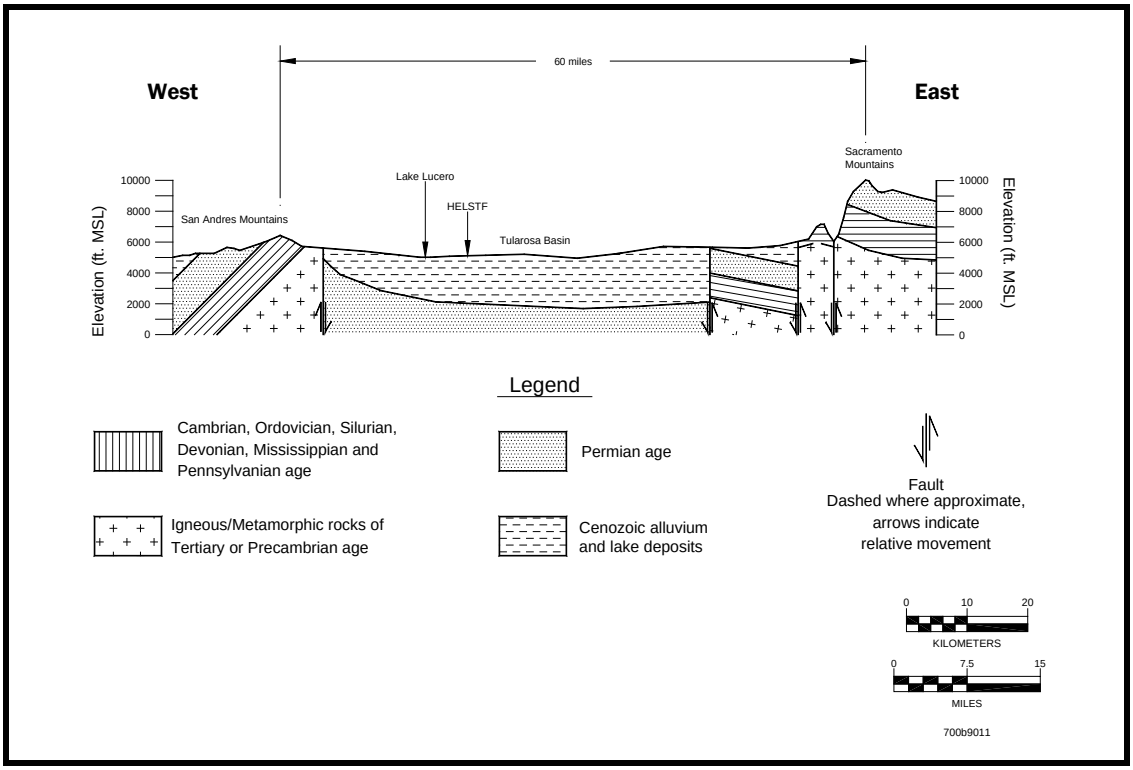

Figure 2-1. Generalized East-West Cross Section of the Southern Part of the Tularosa Basin, North of Highway 70.

The major portion of White Sands lies within the Tularosa Basin, which is bounded on the west by the Organ, San Augustin, and San Andres Mountains (Figure 1-1). The eastern limit of the Tularosa Basin lies outside of the range, and is formed from north to south by the Jarilla Mountains, Sierra Blanca, and Sacramento Mountains. The Tularosa Basin contains thick sequences of Tertiary and Quaternary age alluvial and bolson-fill deposits. These sediments, more than 5,000 ft (1,524 m) thick in some areas, consist mainly of silt, sand, gypsum, and clay weathered from the surrounding mountain ranges. The average elevation of the basin floor is 4,000 ft (1,219 m) above mean sea level and surface features consist of flat sandy areas, sand dunes, basalt flows, and playas (dry lakebeds). Elevations of local mountains range from 5,700 ft (1,737.36 m) at St. Augustin Pass to more than 9,000 ft (2,743.2 m) at Salinas Peak, the tallest peak at White Sands.

The nature of the bolson-fill deposits varies both laterally and vertically throughout White Sands. Coarse-grained, poorly sorted sediments deposited near mountain fronts grade into fine-grained, well-sorted sediments towards the center of the basin (Kelly, 1973). Sediments further from the mountain fronts also contain a greater percentage of clay and gypsum.

The Tularosa Basin is actively subsiding relative to the north-south trending normal faults (Figure 2-1) that produce mountain ranges on either side of the basin. Erosion of the mountain fronts transports clastic sediment into the basin where it is deposited. As subsidence continues, the sediments may be re-worked by wind and water, but are ultimately buried under sediments produced by younger depositional events. The HELSTF facility is located near the depositional axis of the basin, just south of the eolian gypsum dunes of the White Sands National Monument. As a result of the central basin setting and the proximity to the source of the gypsum sand (Lake Lucero), the subsurface geology at HELSTF consists of unconsolidated, fine-grained clasitic sediments interspersed with gypsum and minor selenite redeposited from solution.

Seager et. al. (1987) describe surficial deposits at HELSTF as eolian dunes composed of gypsum sands with well-developed gypsum crusts. Basabilvazo et. al. (1994) characterized the upper 15-20 ft (4.5-6.1 m) of the soil profile as varved gypsiferous sands and silts underlain by lacustrine basin-fill sediments (alternating layers of sands, silts, and clays). The lacustrine deposits are locally discontinuous making correlation of individual units difficult. (MEVATEC-Radian, 2000)

2.2.2 Regional Hydrology

Very little surface water resides at White Sands due to the low annual precipitation, high evaporation rate, and the permeability of typical soils. Playas within the basin may contain standing water during the summer monsoon season when thunderstorm activity is most common. Stream channels that drain the surrounding mountains usually contain water only following a heavy precipitation event. The Tularosa Basin is a closed basin, meaning that surface water drainage is internal. Much of White Sands drains toward Lake Lucero, a large playa along the western side of the basin at the depositional center, approximately 6 mi (9.7 km) northwest of the HELSTF TSA.

Groundwater at or near the basin center is typified by total dissolved solids (TDS) content of generally more than 10,000 milligrams per liter (mg/L). The majority of the groundwater recharge to the southern bolsons near HELSTF occurs through the coarse, unconsolidated alluvial fan deposits along the eastern flanks of the Organ and San Andres Mountains. Groundwater, which

travels east through fractured bedrock and unconsolidated alluvium, becomes progressively more mineralized downgradient from the recharge areas toward the interior of the basin. This is attributed to the slow migration rate of groundwater, and the presence of readily soluble minerals in the bolson sediments.

3.0 INITIAL SITE ASSESSMENT

3.1 Hand Auger Investigation

On 17 March 2000, three initial hand auger borings were completed at the TSA POL Station to determine the location and severity of the unleaded gasoline release. Figure 3-1 shows the locations of all hand auger borings completed at the site. Hand auger borings were completed at the following locations:

- Beneath the fuel pump to a depth of approximately 9 ft (2.7 m) below ground surface (bgs) at a 45-degree angle. The boring was initially named as “TSA-Pump”, and renamed as “HA-01”. Two soil samples were collected: one at 3’-2” bgs and a second at 9’-0” bgs.
- Beneath the product lines on the north side of the concrete pad to a depth of approximately 9 ft (2.7 m) bgs. The boring was initially named as “TSA-Line”, and renamed as “HA-02”. Two soil samples were collected: one at 6’-6” bgs and a second at 9’-0” bgs.
- Approximately 6 ft (1.8 m) east of the fuel pump where the concrete pad and surrounding blacktop meet to a depth of approximately 9.5 ft (2.9 m) bgs. The boring was initially named as “TSA-Blacktop”, and renamed as “HA-03”. Two soil samples were collected: one at 4’-0” bgs and a second at 9’-6” bgs.

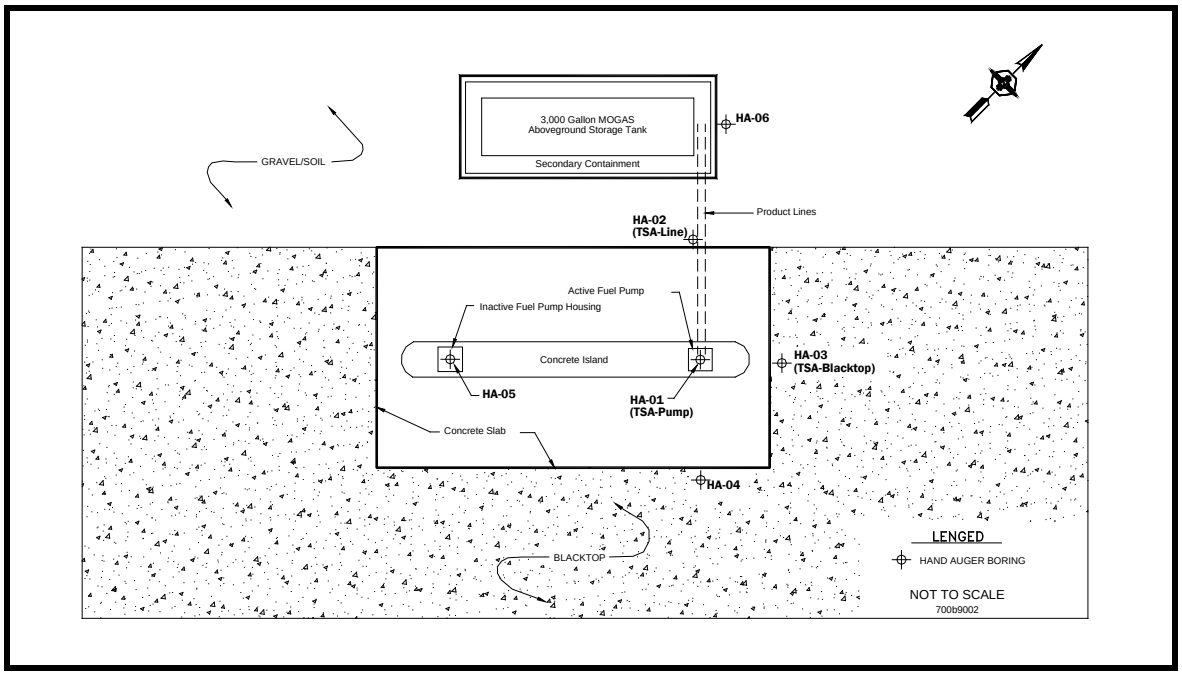

Figure 3-1. Locations of Hand Auger Borings (HA-01 thru HA-06).

Soil types encountered during the hand auger investigation were generally gypsum sand dune with intermittent thin layers of clayey silts. Each depth-specific soil sample were submitted to Trace Analysis Inc. (El Paso, TX) for total petroleum hydrocarbon (TPH) analysis by U.S. Environmental Protection Agency (EPA) method 8015-modified for Gasoline Range Only (GRO), and benzene, toluene, ethylbenzene, xylene plus methyl tert-butyl ether (BTEX + MTBE) analysis by EPA method 8021B. Analytical results are summarized in Section 3.2 and copies of the results are in Appendix C. Field activities were documented using digital photography. Copies of the photographs are in Appendix B.

On 24 March 2000, three additional qualitative hand auger borings were completed to approximately determine the extent of contamination. A photo-ionization detector (PID) was used to screen for volatile components during completion of the additional hand auger borings. The locations of the additional hand auger borings are shown in Figure 3-1. Hand auger borings were completed in the following locations:

- At the south edge of the concrete pad where the concrete pad and blacktop meet to a depth of 9 ft (2.7 m) bgs. The boring was identified as “HA-04”.
- Beneath the removed/inactive fuel pump to a depth of 18 ft (5.4 m) bgs. The boring was identified as “HA-05”.
- At the aboveground storage tank adjacent to where the product lines enter the subsurface to a depth of 9.5 ft (2.9 m) bgs. The boring was identified as “HA-06”.

Table 3-1 summarizes the qualitative analysis of hand auger borings HA-04, HA-05, and HA-06.

Table 3-1.
Qualitative Summary of Hand Auger Borings HA-04, HA-05, and HA-06

Hand Auger Boring	Depth Investigated	Comment
HA-04	10’-0” bgs	Contamination was visually detected and confirmed by the PID at approximately 9’-0” bgs. The auger was advanced to 10’-0”, where headspace analysis using a PID indicated hydrocarbon levels at approximately 100 parts per million (ppm) at 10’-0” bgs.
HA-05	18’-0” bgs	Contamination was evident from approximately 2’-0” bgs to the maximum depth investigated. Headspace analysis using a PID indicated hydrocarbon contamination at approximately 250 ppm at 17’-0” bgs.
HA-06	9’-6” bgs	Contamination was not detected by the PID throughout the length of the hand auger boring.

3.2 Analytical Results

Table 3-2 summarizes the analytical results for the soil samples collected from hand auger borings HA-01, HA-02, and HA-03. The laboratory data reports appear in Appendix C.

Table 3-2.
Soil Concentrations Determined By 8015 (GRO) And 8021 B.

Analyte of Concern	Analytical Results					
	HA-01 (a.k.a. TSA-Pump)		HA-02 (a.k.a. TSA-Line)		HA-03 (a.k.a. TSA-Blacktop)	
	3'-2" bgs	8.5'-9.0' bgs	6'-6" bgs	8.5'-9.0' bgs	3.5'-4.0' bgs	9.0'-9.5' bgs
TPH GRO	15,000 mg/kg	29,000 mg/kg	<50 mg/kg	<50 mg/kg	<50 mg/kg	23,000 mg/kg
Benzene	320 mg/kg	280 mg/kg	52 µg/kg	<50 µg/kg	150 µg/kg	210 mg/kg
Toluene	1,800 mg/kg	1,600 mg/kg	120 µg/kg	58 µg/kg	260 µg/kg	1,200 mg/kg
Ethylbenzene	570 mg/kg	560 mg/kg	<50 µg/kg	<50 µg/kg	<50 µg/kg	340 mg/kg
Total Xylenes	1,700 mg/kg	1,700 mg/kg	<50 µg/kg	<50 µg/kg	<50 µg/kg	990 mg/kg
MTBE (total)	75 mg/kg	34 mg/kg	<50 µg/kg	<50 µg/kg	54 µg/kg	25 mg/kg

Notes: mg/kg – milligrams per kilogram (parts per million)
µg/kg – micrograms per kilogram (parts per billion)

3.3 Initial Site Assessment Conclusion

Based on the analytical and qualitative results obtained from the initial hand auger borings, it was confirmed that an unleaded gasoline release occurred at the HELSTF TSA POL Station. It was estimated that the plume's radius was approximately 16-18 ft (4.9-5.5 m) horizontally and vertical extent exceeded 18 ft (5.5 m) bgs. Refer to Appendix C for basis of conclusion. White Sands immediately initiated a drilling investigation to further determine the horizontal and vertical extent of contamination.

4.0 SOIL AND PRELIMINARY GROUNDWATER INVESTIGATION

Assessment of the extent of contamination at the HELSTF TSA POL station was determined through soil borings drilled with a hollow-stem auger drilling methods. The investigation procedures and resulting data are presented in this section.

4.1 Real Property Planning Board Action and Record of Environmental Consideration

All necessary support documentation required to complete the Real Property Planning Board Action (RPPBA) and Record of Environmental Consideration (REC) for the proposed action was submitted and approved by the proper White Sands directorates.

4.2 Utility Clearances

A utility clearance was performed prior to the start of drilling activities. Utility clearances included gas, water/sewer, electric, communication, and fire. The locations of underground electric and water utility lines are shown with a copy of the utility clearance attached as Appendix D.

4.3 Site Safety

A comprehensive Site Specific Health and Safety Plan for all field activities was prepared and distributed to all field personnel. The health and safety plan is included as Appendix E. Personal protective equipment (PPE) for this project consisted of Level-D, which consisted of a hard hat, steel-toed boots, safety glasses, hearing protection, and leather/latex gloves. In areas where significant contamination was identified, the site safety officer upgraded the PPE to include Tyvek. A field PID was used to monitor the aromatic hydrocarbons in the breathing zone at the drill rig.

4.4 Drilling and Soil Sampling

Tierra Drilling and Environmental Services, Inc. (El Paso, TX) was sub-contracted to complete the required drilling activities for this project. A total of nine investigative soil borings were drilled within and surrounding the release site. The location of each soil boring is shown in Figure 4-1 (Note: Hand auger borings are not shown on Figure 4-1). All borings were drilled using a CME 750 continuous-flight, hollow-stem auger drill rig with 4.25 inch (in) [10.8-centimeter (cm)] inside diameter auger flights. Soil samples were collected using a 2.5 in (6.4 cm) outside diameter, 2.5 ft (0.76 m) long split-barrel sampler. Prior to the start of sampling, the NMED Ground Water Quality Bureau approved a request by White Sands to use brass rings with Teflon lined end caps in a split-spoon sampler to obtain soil samples. Appendix A includes a copy of the approval letter from the NMED Ground Water Quality Bureau.

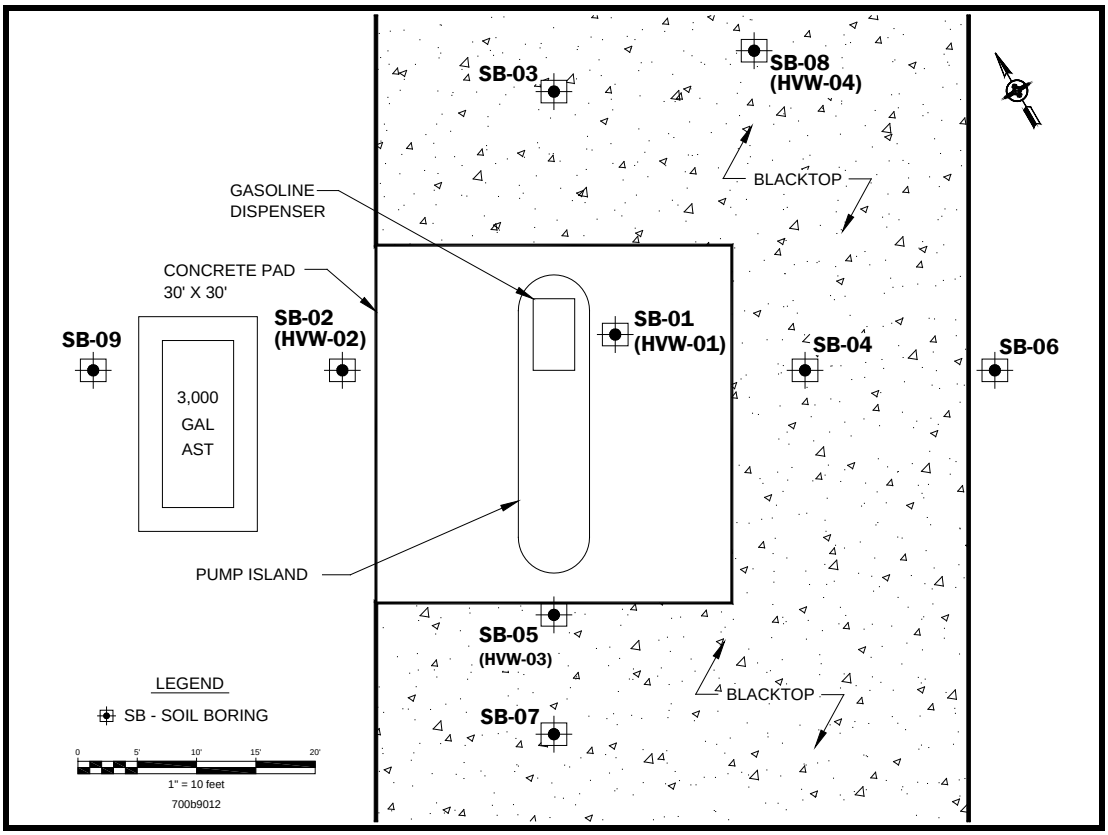

Figure 4-1. Locations of Soil Borings Installed with Hollow-Stem Auger, May 2000. (Note: Hand Auger borings are not shown.)

All investigative soil borings were completed to a depth of 40 ft (12.2 m) bgs with the exception of soil borings SB01 and SB08 which were completed to a depth of 42 ft (12.8 m) bgs and 38 ft (11.6 m) bgs respectively. The final depths of each boring varied as a result of changes in lithology. Soil samples were collected from each boring at 5.0 ft (1.5 m) intervals for chemical analysis. All soil samples were sent to Trace Analysis, Inc. (El Paso, TX) for analysis by EPA Method 8015-modified for GRO to determine TPH concentration and EPA Method 8021B to determine BTEX and MTBE concentrations. Approximately 10 percent of the soil samples were split and sent to PDP Analytical Services (The Woodlands, TX) for quality assurance (QA) analysis. Analytical results are presented in Section 5.0 of this report. Soil samples were identified as follows:

26030-SBxx-(yy.y-zz.z)

where: 26030 - HELSTF TSA POL Facility Number
SB - soil boring; or
xx - number of boring/well (i.e. 01, 02, etc..)
(yy.y-zz.z) - collection depth (feet)

QA - modifier added to all samples sent to the QA lab

During the investigation, White Sands determined that interim remedial action using soil vapor extraction may be required. In anticipation of this action, four soil borings (SB-01, SB-02, SB-05, and SB-08) were completed as vapor recovery wells. Upon completion, the vapor wells were named HVW-01, HVW-02, HVW-03, and HVW-04, respectively for "HELSTF Vapor Well". Table 4-1 summarizes vapor well construction data.

Table 4-1.
Vapor Well Construction Data.

Well Number	Well Segment Intervals (feet, bgs)				
	Well Casing	Screen	5 Percent Bentonite Cement	Bentonite Seal	Filter Pack
HVW-01	0-15	15-20	5-10	0-5	10-20
HVW-02	0-31	31-36	25-30	0-25	30-36
HVW-03	0-31	31-36	25-30	0-25	30-36
HVW-04	0-31	31-36	21-26	0-21	26-36

HVW-01 was screened above the center of the plume to minimize potential migration pathways between geologic strata. HVW-02, HVW-03, and HVW-04 were placed along the suspected perimeter of the plume and screened between 31 and 36 ft (9.4-11.0 m) bgs, across the shallow perched water-bearing zone (see Section 5.1). However, only HVW-04 contains water, while HVW-02 and HVW-03 remain dry.

4.5 Well Installation and Groundwater Sampling

During the investigation, two water-bearing zones were encountered. The first zone is perched in nature and located approximately 34 ft (10.4 m) bgs. The second water-bearing zone encountered during the investigation is the regional groundwater table, which was determined to be approximately 90 ft (27.4 m) bgs. Refer to Section 5.0 for further discussion on chemical and water quality data of the two-water bearing zones encountered during the investigation.

In discussions with White Sands, the Ground Water Quality Bureau of NMED determined that groundwater resources might be threatened by the gasoline release at the HELSTF TSA. Therefore, the site investigation included a local determination of the depth to water, water quality, and direction of flow for the regional aquifer. These data were acquired through the installation of three wells (one upgradient and two downgradient) that monitor the regional aquifer.

The depth to water in conjunction with lithological information assists investigators in determining the potential for release to the aquifer. Changes in water quality may be indicative of impacts by local contamination. The groundwater flow direction assists in determining which wells are most likely to be impacted by local contamination.

4.5.1 Regional Groundwater Monitoring Wells

One up-gradient and two downgradient groundwater monitor wells were installed to: 1) determine the groundwater quality at the site and, 2) monitor the potential migration of gasoline via the regional aquifer if contaminants are detected in groundwater. The locations of the three regional water table wells relative to the source area are shown in Figure 4-2 on following page. During the investigation, the wells were originally identified as MW-01, MW-02, and MW-03, however, following the investigation the wells were renamed as "HELSTF Monitoring Wells" HMW-48, HMW-49, and HMW-50, respectively, to maintain conformity with existing groundwater monitoring wells at HELSTF.

Each monitoring well was drilled in the same fashion as previously described. The well risers consisted of new, 4-in (10.2-cm) diameter PVC (ASTM-D 1785 Schedule 40). Threaded, flush-joint couplings joined screen and riser sections. Solvent glues, cements, or adhesive tapes were not used to join sections of the riser or screen. A 0.010-in (0.025-cm) slot size screen constructed of Schedule 40 PVC was positioned such that 5 ft (1.5 m) was located above the potentiometric surface and 15 ft (4.6 m) was located below the potentiometric surface. A 5 ft (1.5 m) length sump, with end cap, was constructed below the screen. Filter pack material, consisting of clean, washed, well graded, rounded to sub-rounded 20/40 silica sand, was placed from the base of the boring to approximately 5 ft (1.5 m) above the screen. Four feet (1.2 m) of hydrated bentonite was placed above the filter pack, and the remaining hole was filled with a 5 percent bentonite-cement mix. Table 4-2 lists pertinent construction data for each monitoring well. Copies of each monitoring well construction diagram are found in Appendix F.

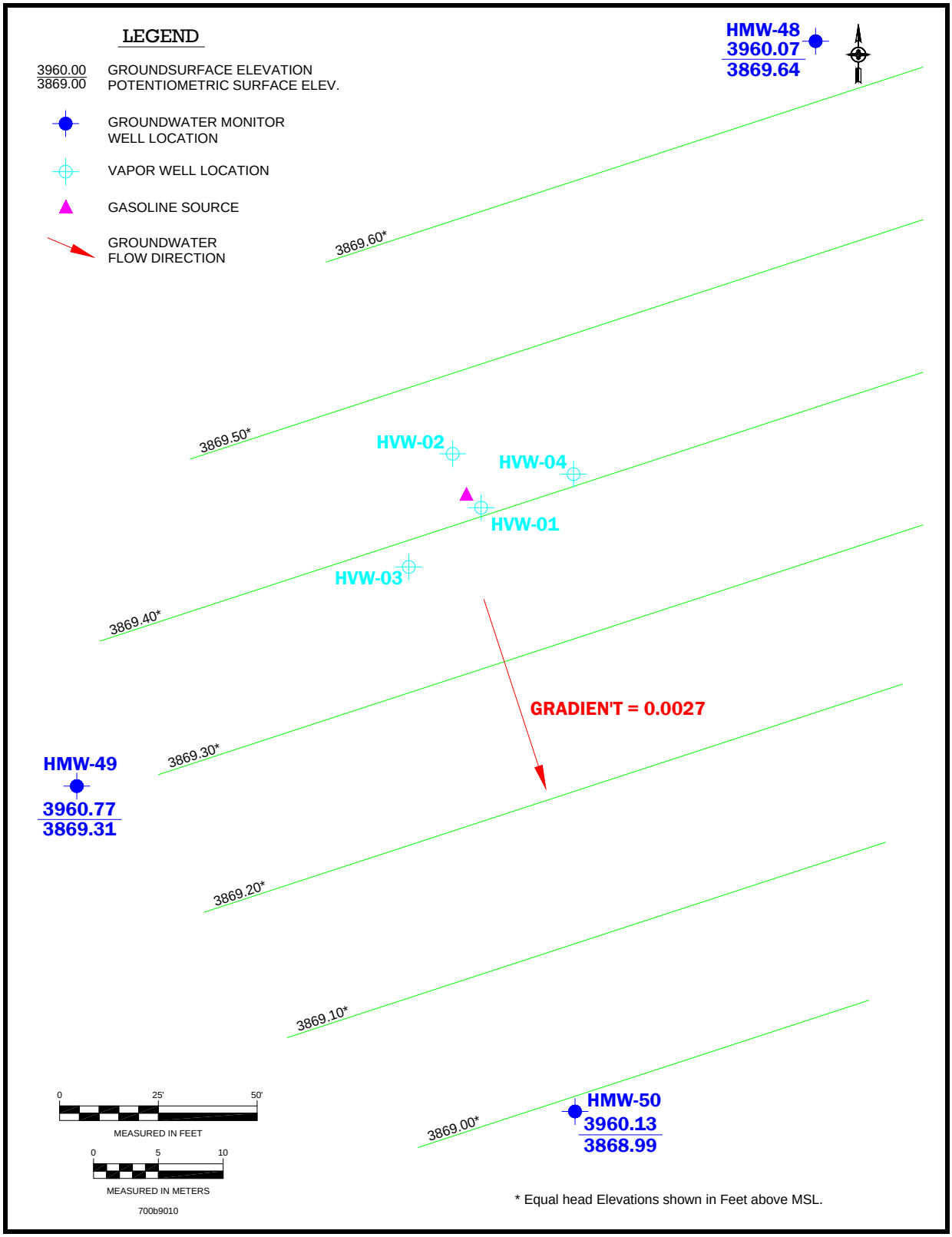

Figure 4-2. Location of Groundwater & Vapor Recovery Wells and Potentiometric Surface of the Regional Aquifer below HELSTF TSA, October 2000.

Table 4-2.
Regional Aquifer Monitoring Well Construction Data.

Well Number	Well Segment Intervals (feet, bgs)					
	Well Casing	Screen	Sump with end cap	5 Percent Bentonite Cement	Bentonite Seal	Filter Pack
HMW-48	0-85	85-105	105-110	0-75	75-80	80-110
HMW-49	0-85	85-105	105-110	0-75	75-80	80-110
HMW-50	0-85	85-105	105-110	0-75	75-80	80-110

A protective aluminum casing with a hinged, locking aluminum cap was installed around each well and embedded into the Portland cement. A 4-ft x 4-ft x 1-ft (1.2-m x 1.2-m x 0.3-m) thick concrete pad, with protective bollards, was constructed around the protective casing at final ground elevation. A survey marker was permanently placed in each pad. The horizontal and vertical locations of each well were surveyed by Moy Surveyors of Las Cruces to within one one-hundredth of a foot relative to permanent USGS benchmarks in the vicinity. Survey data is found in Appendix G. Following surface completion, each well was purged until water quality parameters stabilized. Field personnel recorded water quality parameters (temperature, pH, and conductivity) at 20 gal (76 L) intervals. Purge water from each well was containerized in 55 gal (208 L) drums for characterization and disposal.

4.5.2 Groundwater Flow Direction and Gradient

The three monitoring wells screened across the regional water table (see Table 4-2) were utilized to determine the attitude of the planar surface defined by the three depth to water measurements to an accuracy of one one-hundredth of a foot. The static water levels measured in each well following completion were approximately 90 ft (27.4 m) bgs. The aquifer is apparently unconfined because the static water levels in the wells stabilized at approximately the same elevation where saturation was encountered during well construction.

The potentiometric surface was measured to an accuracy of one one-hundredth of a foot using an electronic water-level indicator in each well on October 6, 2000. Decontamination procedures were observed between measurements. The wells were plotted on a map and the slope of the water table was determined using a trigonometric method under the assumption that three points define a plane (Heath, 1982).

As shown in Figure 4-2, groundwater flow direction in the regional aquifer was toward the southeast at the HELSTF TSA. This result agrees with studies of the regional aquifer on a broader scale incorporating measurements of more widely spaced wells (MEVATEC, 2000). Also shown in Figure 4-2, the projected groundwater flowpath through the contaminant source area at the dispenser pump island intersects monitor well HMW-50 (formerly MW-03). Gradient determined using the relative water levels in the three monitor wells was 0.0027 (dimensionless). Groundwater quality of samples submitted for analysis is discussed in Section 5.2.2.

4.6 Lithologic Soil Sampling

Lithologic soil samples were collected from continuous core recovered from monitor well HMW-48 (formerly MW-01) for inclusion in the White Sands Lithologic Library. The lithology of soil boring HMW-48 was recorded on a lithologic log sheet, a copy of which appears in Appendix H.

4.7 Investigation Derived Waste

Investigation-derived waste (IDW) was generated during the soil boring and well development phases of the site characterization, as well as during sampling events. Soil was containerized on-site in roll-off boxes. Water was containerized in drums. Both were sampled for analysis by EPA-approved methods for comparison with state and federal waste disposal guidelines.

4.7.1 Soil Cuttings

Soil recovered from soil borings and well installation was staged in rented roll-off boxes, double-lined with 6-mil plastic sheeting. The soil IDW was segregated by source; soil-boring waste was contained in a single roll-off box while well drilling waste was contained to two separate boxes. The reason for the segregation was that the wells were drilled through clean soil whereas the borings were drilled through contaminated soil. Following a period of storage the IDW soil was composited to determine what disposal options were available. The composite sample was considered representative of the waste since the material was relatively homogeneous in nature. This method has been approved by the EPA for compliance with waste determination under RCRA. The laboratory analysis of the composite soil samples (provided in Appendix I) indicated that the soil was within applicable limits for disposal at the Corralitos Regional Landfill, west of Las Cruces.

4.7.2 Decontamination Water

Drill rig decontamination rinsate was collected in drums. Following the site investigation, composite samples of the rinsate were analyzed for potential contaminants. Disposal decisions for decontamination water are made by White Sands based on the analytical results (provided in Appendix I).

5.0 RESULTS OF SOIL AND PRELIMINARY GROUNDWATER INVESTIGATION

5.1 Subsurface Geology and Hydrogeology

The site subsurface investigation included drilling three wells around the source area to a maximum total depth of 115 ft (35 m) (see Section 4.4). Additionally, shallower borings were drilled in the source area. All drilling was done using hollow-stem auger and the boreholes were logged on-site. Continuous core was recovered during the drilling of the up-gradient monitor well, HMW-48. The lithologic log (see Appendix H) developed from the core is indicative of the geologic materials across the site.

Sediments are predominantly clayey silts interspersed with sandier intervals. Several thin sand layers punctuate the stratigraphic column and may represent sediment deposition by meandering streams or, in some cases, eolian deposition. Thicker, clay-rich intervals separating the sandy layers probably represent sedimentation in shallow, ephemeral pools formed after stream avulsion or precipitation events in the central basin setting.

A thin sand layer encountered at approximately 23 ft (7.0 m) bgs is of particular interest because it may represent the preferential pathway that allowed the lateral spreading of gasoline seen at this depth in Figures 5-2 and 5-3. At soil boring SB-08, which was subsequently completed as vapor extraction well HVW-04, the sand layer was saturated with water. Because of the proximity of HVW-04 to potable water supply infrastructure, it is possible that a leaking water main could be causing the localized perched saturation. The high TDS of water from HVW-04, as shown in Table 5-3, could be the result of mineral dissolution within the subsurface.

During the investigation, two water bearing zones were encountered. The first zone is perched in nature, located approximately 34 ft (10.4 m) bgs, and was determined to be non-potable due to TDS concentrations of 26,000 mg/L. The shallow perched water bearing zone may be the result of wastewater infiltration from a septic field located approximately 800 ft (243 m) east of the POL station. The second water bearing zone encountered during the investigation is the regional groundwater table, which was determined to be approximately 90 ft (27.4 m) bgs. The regional aquifer is in unconsolidated silty sands and moderately-sorted sand layers. The regional groundwater was also determined to be non-potable, with TDS concentrations in excess of 8,000 mg/L. However, since the TDS concentration is less than 10,000 mg/L, the regional groundwater does fall under the protection of the New Mexico WQCC Regulations (20 NMAC 6.2, Subpart 3103).

5.2 Analytical Results

Soil samples obtained during the boring program and groundwater from the three, newly installed monitor wells was analyzed by a certified laboratory. Soil matrix was analyzed for total petroleum hydrocarbons using modified EPA method 8015 and BTEX + MTBE by EPA method 8021B. Water matrix was analyzed for BTEX + MTBE by EPA method 8021B, TPH by EPA method 8015 modified GRO, dissolved metals by methods SM 3111B, SW 6010B, and E 245.1. Dissolved anions and cations were determined by methods SM 4500, SM 2320B, SM 2510B, EPA 300.0, SM 2540C, and physical characteristics were measured in the laboratory.

5.2.1 Soil Matrix Results

In an effort to define the maximum lateral and vertical extent of gasoline contamination from the release point, soil borings were stepped-out and extended until no detection of vapor was evident in soil headspace using the PID. The locations of soil borings are shown relative to the source area in Figure 5-1. Soil was collected during the drilling process using a split-spoon sample retrieval barrel, as described in Section 4.2. Discreet samples were collected at 5 ft (1.5 m) intervals beginning at 2 ft (0.6 m) bgs.

The samples were analyzed by the methods listed in Section 5.1, above. The analytical data is provided in Appendix J. The results of the soil analyses represent conditions during the snapshot of time from May 2 and 3, 2000. The TPH GRO results were plotted on cross-sections in Figures 5-1, 5-2, and 5-3 to closely approximate the extent of contaminated soil at the time of the soil boring sampling.

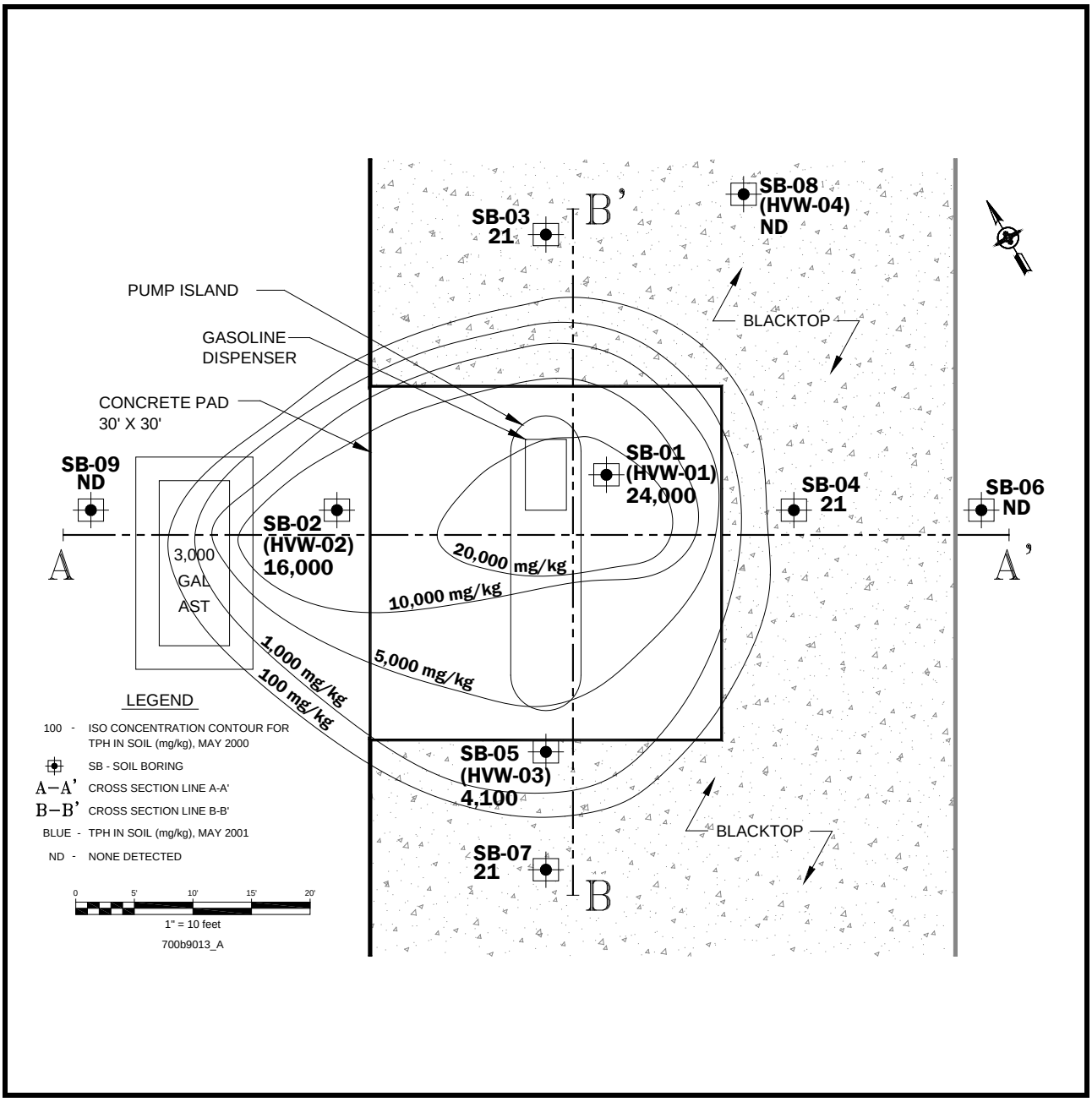

Figure 5-1.
Locations of Soil Borings Installed with Hollow-Stem Auger, May 2000.
(Segments A-A' and B-B' Correspond to Cross-Sections in Figures 5-2 and 5-3, respectively.)

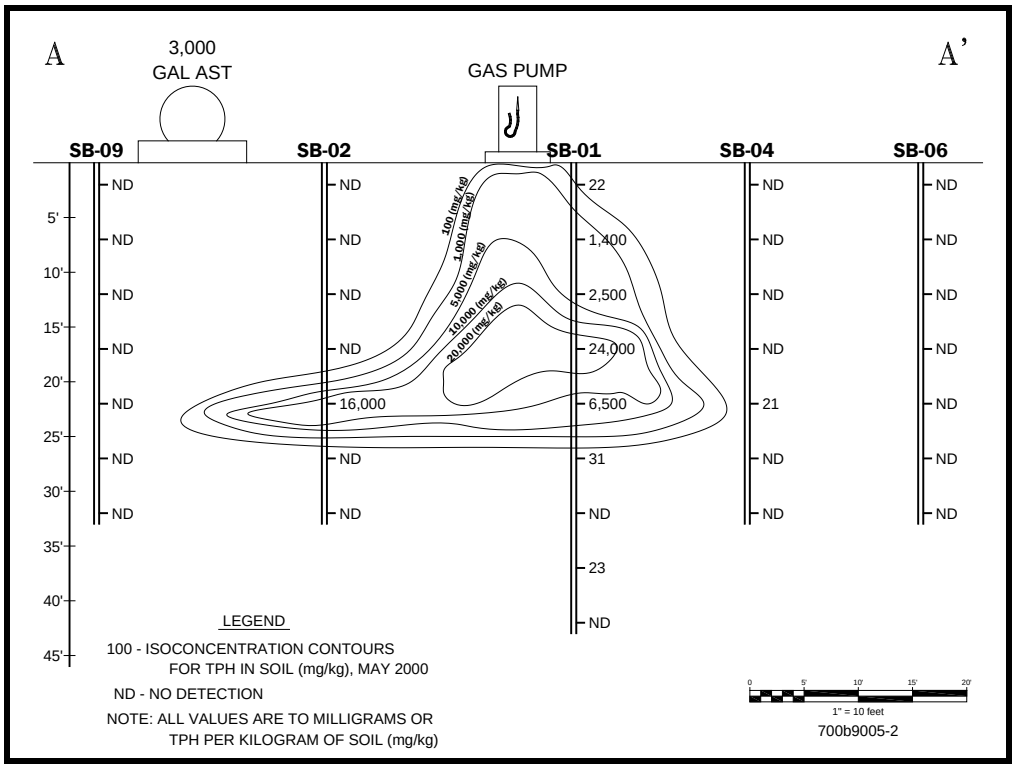

Figure 5-2.
Extent of Soil Contamination Along Section A-A'. Section Line is shown in Figure 5-1.

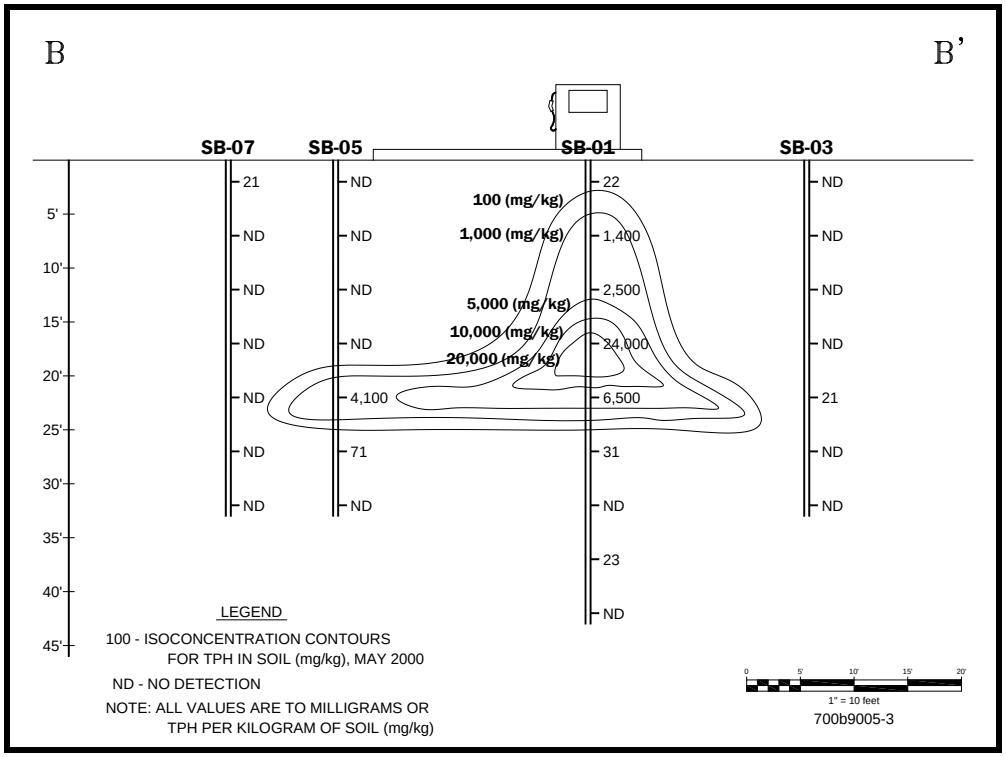

Figure 5-3.
Extent of Soil Contamination Along Section B-B'. Section Line is shown in Figure 5-1.

5.2.2 Water Matrix Results

Groundwater samples were collected from each of the three wells monitoring the regional aquifer and from vapor well HVW-04 during early June 2000. Three well volumes were removed and conductivity, temperature, and turbidity stabilized prior to sample collection at each well. The samples were submitted to Trace Analysis Inc. (El Paso, TX) for analysis. Quality Assurance splits were submitted to PDP Analytical Services (The Woodlands, TX). The analytical results for the primary and QA laboratories are attached in Appendix J. Table 5-1 summarizes the results of gasoline contaminant concentrations in the regional groundwater in the vicinity of POL dispenser island. No indicators of gasoline were evident in the regional groundwater, as shown by the non-detections for BTEX, MTBE, and TPH.

Table 5-1.
Regional Aquifer Sample Results.

Volatile Gasoline Compounds (µg/L) from Regional Groundwater Wells at HELSTF TSA sampled on June 1, 2000				
Organic Compounds	**WQCC Standard**	**HMW-48**	**HMW-49**	**HMW-50**
Benzene	10.0	<1.0	<1.0	<1.0
Toluene	750.0	<1.0	<1.0	<1.0
Ethylbenzene	750.0	<1.0	<1.0	<1.0
Total Xylenes	620.0	<1.0	<1.0	<1.0
MTBE	NE	<2.0	<2.0	<2.0
TPH gas range	NE	<1.0	<1.0	<1.0

Note: WQCC - New Mexico Water Quality Control Commission Standard
NE – not evaluated

Although not detected in the regional aquifer, components of gasoline were detected in the shallow, perched groundwater collected from HVW-04 during the June 2000 groundwater-sampling event. The areal extent of the perched water is limited because vapor wells HVW-02 and HVW-03 (see Figure 4-1) were constructed with screen intervals identical to that of HVW-04 and these wells did not intersect groundwater. Although the well was designed for potential use as vapor extraction well, groundwater did enter the HVW-04 well. Prior to sampling, HVW-04 was bailed dry and allowed to recharge overnight due to slow recovery. The sample of perched water was analyzed along with the regional aquifer samples. In addition to those laboratory methods, the HVW-04 sample was analyzed for volatile and semi-volatile organic compounds by SW-846 methods 8260 and 8270. Table 5-2 plots the organic compounds detected by the various analytical methods run on the HVW-04 sample. Quantified results that exceed WQCC standards are shown in bold.

Table 5-2. Perched Aquifer Contaminant Concentrations from HVW-04 during the June 2000 Sampling Event.

Compound	Units	WQCC[a] Standard	SW-846 Series			
			8260	8270	8021	8015 mod.
Benzene	µg/L	10.0	**1,600**	NA	**1,200**	NA
Toluene	µg/L	750.0	**1,570**	NA	120	NA
Ethylbenzene	µg/L	750.0	120	NA	88	NA
Total Xylenes	µg/L	620.0	480	NA	420	NA
MTBE	µg/L	NE	NA	NA	72	NA
Phenol	µg/L	5.0	NA	0.051	NA	NA
TPH-GRO	mg/L	NE	NA	NA	NA	8.8

Note: WQCC – New Mexico Water Quality Control Commission Standard
NE – not evaluated
NA – not analyzed

Groundwater sampling of the regional aquifer and the perched water horizon produced chemical data that characterizes the water (Table 5-3 on the following page). Groundwater in the regional aquifer is sodium-sulfate water. On a per weight basis sulfate comprises more that 50-percent of the TDS, which ranged between 8,200 and 8,550 mg/L in the samples collected from the regional groundwater monitor wells. Calcium and magnesium cations are present in significant concentrations along with sodium to balance the major anions, which also include chloride, nitrate and bicarbonate in addition to the sulfate. Ion balances for the perched water in HVW-04 occur in proportion to the regional aquifer samples. However, the perched water is significantly concentrated in dissolved ionic species relative to the regional aquifer. Indicator parameters chloride and nitrate are highly concentrated (6,400 and 88 mg/L, respectively) in the perched aquifer, consistent with the release of domestic wastewater. Other mechanisms for the concentration of natural waters cannot be ruled out based on the available data set.

5.3 Estimated Extent of Contamination

Gasoline accidentally released from the dispenser island at the HELSTF TSA migrated into the porous subsurface sediments. The vertical and lateral extent of migration was determined through the soil-boring program conducted in early May 2000. As shown by the isoconcentration contours in Figures 5-1, 5-2 and 5-3, gasoline was detected in a smear zone directly beneath the source area. Maximum concentrations were encountered at a depth of 17 ft (5.18 m).

Lateral migration was increased at a depth between 20-25 ft (6.1-7.6 m). Gasoline found a preferential pathway in a more conductive, permeable sand layer that was encountered across the study area. Lateral migration at this level evidently reduced the rate of vertical migration into the more clay-rich sediments below. Shut-off of the source at nearly 1,500 gal (5,675 L) may have combined with the surface tension of the fluid to arrest the contaminant migration in the configuration encountered during the soil boring program (Figures 5-1, 5-2, and 5-3).

Table 5-3. Concentrations of Dissolved Chemical Species in Groundwater at the

June 2000 Sampling Event.

Constituent	unit	WQCC Standard	HMW-48	HMW-49	HMW-50	HMW-50 QA	HVW-04
TDS	mg/L	10,000	8,200	8,300	8,500	8,550	**26,000**
Bicarbonate	mg/L	NE	<5.0	130	130	99	380
Carbonate	mg/L	NE	<5.0	<5.0	<5.0	<1.4	<5.0
Sulfate	mg/L	600.0	**4,700**	**4,900**	**4,600**	**6,510**	**15,000**
Chloride	mg/L	250.0	**810**	**870**	**840**	**1,360**	**6,400**
Fluoride	mg/L	1.6	0.24	0.49	0.26	<1.0	<2.0
Nitrate-N	mg/L	10.0	**12**	**13**	**12**	**12**	**88**
Ammonia-N	mg/L	NE	<2.0	<2.0	<2.0	na	<2.0
Bromide	mg/L	NE	<2.0	<2.0	<2.0	<0.2	<20.0
Calcium	mg/L	NE	360	330	360	410	460
Magnesium	mg/L	NE	280	320	300	280	920
Sodium	mg/L	NE	1600	1,700	1,500	2,400	5,700
Potassium	mg/L	NE	12	12	12	36	29
Iron	mg/L	1.0	<0.20	<0.20	<0.20	<0.20	<0.20
Phosphorus	mg/L	NE	<0.20	<0.20	<0.20	0.128	<0.20
Barium	mg/L	1.0	<0.05	<0.05	<0.05	<0.05	<0.05
Boron	mg/L	0.75	**1**	**1**	**1**	**0.773**	**1.7**
Lithium	mg/L	NE	0.43	0.44	0.42	<0.1	0.72
Manganese	mg/L	0.2	<0.05	<0.05	0.07	0.07	0.08
Strontium	mg/L	NE	6.6	6.6	6.2	12	7.1
Uranium	mg/L	5.0	<0.50	<0.50	<0.50	0.046	<0.50

Note: NE – not evaluated

6.0 POTENTIAL CONTAMINANT EXPOSURE/MIGRATION PATHWAYS

6.1 Soil Pathway

Soils in the vicinity of the HELSTF TSA are predominantly fine-grained. The physical dimensions of the sediment grains dictate that there is more pore space and greater grain-surface area per unit volume, relative to coarser materials. Both physical characteristics combine to retain more gasoline within a given volume of soil (i.e., high adsorptive capacity). The pore space can hold a greater volume and the increase in grain-surface area results in the greater retention of fluids due to the surface tension properties of the fluid.

The soil's absorptive capacity for gasoline appears to be great enough in this case to preclude the breakthrough of roughly 1,500 gal (5,675 L) of gasoline to the regional water table at approximately 90 ft (27.4 m) bgs. As of the time of the site investigation in May 2000, vertical penetration of the contaminants had not exceeded 30 ft (9.1 m). Lateral migration of the gasoline showed an increase in the area of the interface between the fine-grained material and a thin sand layer at approximately 22 ft (6.7 m). The maximum extent of contaminants was defined by the soil boring program, as shown in Figures 5-1, 5-2 and 5-3. It is assumed that without the

introduction of additional gasoline at the source, the absorptive capacity of the sediment below the TSA fueling station retains the contaminants in roughly the same configuration. However, it is also likely that vapor-phase advective and diffusive migration continues.

Human and animal contact with the contaminated soil is prevented by pavement in the source area. Only through burrowing or excavation could contact with the contaminants become a health concern.

6.2 Groundwater Pathway

The results of the site characterization detailed in Section 5 indicate that the volume of gasoline spilled was insufficient to produce breakthrough to the regional water table. The groundwater analyzed for this study did not indicate the presence of target compounds, but was not of a potable quality (see Section 5.1.2). The high TDS is typical of natural groundwaters in the central Tularosa Basin. This, combined with the lack of springs in the area, precludes groundwater as an exposure pathway to humans or animals for the contaminants released at the site.

6.3 Surface Water Pathway

No contaminant migration occurred along the surface water pathway because the gasoline was released from delivery line connections and fittings located subgrade. The release point is near the center of a 900 square-foot (83.6 square-meter) area paved with concrete. As a result, gasoline did not emerge on the ground surface where it could contaminate surface water.

6.4 Air Pathway

Pavement in the area surrounding the spill is preventing the accumulation of high concentrations of vapor at the surface of the ground where a person or animal is most likely to come in contact with it. If excavation is performed at the site, there is a much greater likelihood that the air pathway could become a human health concern. The migration of contaminants has not approached any buildings, and therefore the impact to basement airspace is not currently at issue.

7.0 INVESTIGATION CONCLUSION AND RECOMMENDATIONS

The investigation conducted at the HELSTF TSA in May 2000 produced data that lead to the following conclusions. Considering the data as a whole, a discussion of the appropriate remedial response is presented in Section 7.3.

7.1 Vadose Zone

Drilling and sampling in early May 2000 produced evidence that unsaturated sediments above the regional water table and the capillary fringe retained the bulk of the 1,500 gal (5,675 L) gasoline spill. The sediments are fine-grained and rich in silt, clay, and gypsum. The sediment grains observed during the subsurface investigation are within the size range that can be transported by water and/or wind. The physical nature of the uncemented sediment is generally associated with high porosity, lower saturated hydraulic conductivity, and higher surface area per unit volume. As a result, much of the gasoline released accidentally from the HELSTF TSA is adsorbed on to

sediments in the vadose zone and retained in interstitial pore spaces.

7.2 Groundwater

The aquifer below the HELSTF TSA gasoline spill location is not potable due to high concentrations of dissolved minerals (TDS > 8,000 mg/L). However, if gasoline reached the water table in the future there would be a concern that flows within the aquifer could contaminate down-gradient groundwater resources that are protected under the Water Quality Control Commission regulations (WQCC, 1996).

Three wells screened across the regional water table were installed as part of this site characterization. A gradient of 0.0027 was estimated from measurements of the potentiometric surface (Figure 4-2), which was found not to be under confining pressure. Assuming a range of hydraulic conductivities for the predominant aquifer materials, the average velocity of groundwater in the direction of flow could conceivably range on an order-of-magnitude between 3 and 30 ft per year (1 to 9 m per year) (Heath, 1982).

Although some components of gasoline, particularly benzene and toluene, migrate at rates that exceed the groundwater velocity due to diffusion, the maximum length of any gasoline contaminant plume recorded to date is on the order of hundreds of feet (tens of meters). Industry experts accept that longer plumes have not been seen because indigenous microbes metabolize the various gasoline components at rates that range between locations and compounds. Because the flow direction at the HELSTF TSA is towards the center of the Tularosa Basin, it is unlikely that potable water would be intersected in that direction for 20 to 50 mi (32 to 81 km). Owing to the finite maximum length of recorded BTEX plumes, it is highly unlikely that the release from the HELSTF TSA will contaminate groundwater resources that are scheduled to be utilized in the reasonably foreseeable future.

Investigation of perched saturation in a sand layer (see Section 6.2) at approximately 23 ft (7.0 m) bgs could potentially determine if it has a natural source or emanates from the water/wastewater infrastructure at HELSTF TSA.

7.3 Remedial Options Considered

The investigation to determine the extent of gasoline contamination at the HELSTF TSA POL station produced two conclusions that affect the remedial action decision-making.

1) Geologic materials affected by the gasoline spill are predominantly fine-grained, having been deposited in a central basin lacustrine and fluvial setting.
2) The volume of gasoline released was insufficient to migrate the entire distance to regional groundwater in the time span immediately following the spill until the site characterization.

It would be prudent to remediate the gasoline retained in the vadose zone so that the threat of groundwater contamination is eliminated. However, the same soil characteristics that help to retain the gasoline above the water table may inhibit the exchange of soil vapor. If the physical properties of the soil are conducive to soil-vapor extraction (SVE), the volatile components of

the gasoline could be removed using relatively inexpensive, non-intrusive methods. If SVE is impractical due to vadose zone conditions, it may become necessary to consider more expensive remedial methods such as passive soil venting, air sparging, or extraction.

8.0 CORRECTIVE ACTION

8.1 SVE Pilot Study

Based on the defined extent of the gasoline contamination determined through this site investigation, White Sands initiated a SVE pilot study during July 2000 to determine the efficacy of this method for contaminant removal. White Sands contracted AcuVac Remediation, Inc. (Houston, TX) to perform a one-day pilot study. Vapor wells HVW-01 through HVW-04 were evaluated for their capacity to transmit volatile components of gasoline to the surface. The results of the pilot study indicated that SVE would be an effective method of remediation at the facility, specifically at HVW-01. The effective vacuum radius of influence at the site from HVW-01 was determined to be approximately 50-56 ft (15.2-17.1 m) in the easterly direction towards HVW-01, and approximately 25-25 ft (6.4-7.6 m) in the southerly and westerly direction towards HVW-02 and HVW-03. The pilot study indicated that under certain SVE operating conditions, approximately 15.04 lbs/hour [6.82 kilograms (kg)/hour] of gasoline and 0.24 lbs/hour (0.11 kg/hour) of benzene could be removed from the subsurface. A copy of AcuVac's pilot study report is attached as Appendix K.

8.2 Long Term SVE Operation

Based on the conclusions of the one-day pilot test, White Sands contracted AcuVac Remediation, Inc. to provide a SVE system for continual, long-term operation. The SVE system was installed on 16 October 2000 and operated continuously through 24 February 2001 for a total of 2,012.6 hours. The system was connected to vapor extraction well HVW-01 throughout the entire length of operation. The SVE system utilized by White Sands was similar in construction and operation to the SVE system used to perform the pilot study. Photographs of the system are shown in Appendix B.

Prior to startup of the system, White Sands notified the NMED Air Quality Bureau (AQB) of the intent to operate the system. White Sands provided a preliminary assessment of potential emissions generated by the system. Based on the information provided as well as the limited duration of operation, it was determined by the AQB that the system did not warrant permitting. As stated in the *Operation and Safety Manual* (AcuVac, 2000), the system consisted of a vacuum pump driven by a six cylinder industrial rated internal combustion engine (ICE). The vacuum on the extraction well (HVW-01) caused the hydrocarbons to volatilize and flow with the air into the well and up to the vacuum pump. The vapors were directed to the intake of the engine where they were mixed with a supplementary fuel, in this case liquid propane. Due to the initially high TPH concentration at the at the release site, the system did not required the addition of liquid propane until after 277.1 hours of operation. This fuel mixture was then burned in the engine through the process of compressive thermal oxidation. Temperatures within the engine exceed 4,000 °F (2,200 °C), substantially consuming the hydrocarbon mixture. The engines air to fuel ratio was adjusted daily to maintain efficient combustion when the vapors from HVW-01 were combined with the fuel from the carburetor, thus resulting in minimum emissions from the engine.

Copies of daily operation logs, which indicate air intake and fuel consumption settings, are in Appendix L. The engine exhaust was passed through three automotive-type catalytic converters (two in parallel leading to one in series) to ensure maximum destruction of hydrocarbons. The temperatures at the catalyst exit ranges between 800 and 1,400 °F (420-760 °C). The catalytic converters met EPA requirements (AcuVac, 2000).

Vapor extraction well HVW-01 is screened from 15-20 ft (4.6-6.1 m) bgs, approximately 14-ft (4.3 m) above the shallow, perched water-bearing zone. Due to the close proximity to the saturated zone, the vacuum generated by the SVE system created an upwelling of the shallow, perched water-bearing zone and subsequently drew water and liquid gasoline into HVW-01. Consequently, several times during each week, field personnel bailed water & gasoline from HVW-01 to keep the well screen open for vapor extraction. The water/gasoline was stored in 5-gal (19 L) DOT-approved containers prior until disposal. Approximately 41.2 gal (156 L) of gasoline and 74.6 gal (282 L) of water were bailed from the well during operation of the SVE system.

Periodically, air samples were collected in Tedlar bags via a sample port in the manifold attached to HVW-01. Samples were submitted to Hall Environmental Analysis Laboratory (Albuquerque, NM) for analysis by EPA methods 8015 GRO and 8021B (BTEX + MTBE). Additionally, several samples were split and shipped to AcuVac Remediation in Houston, TX for analysis using a Horiba flame-ionization detector (FID). Analytical results are shown in Table 8-1. Copies of the analytical results are in Appendix M. Figures 8-1 and 8-2 additionally show the reduction in TPH and BTEX within the subsurface at HVW-01 during operation of the SVE system.

Table 8-1.
Analytical Results from Air Samples Collected During Operation of the SVE System

Sample Date	Analytical Results as Reported by the Laboratory**					
	TPH (ppmv)	MTBE (ppmv)	Benzene (ppmv)	Toluene (ppmv)	Ethyl-benzene (ppmv)	Total Xylenes (ppmv)
10/17/00	12,951	<33	57	1,217	99	211
10/25/00	20,853	<33	459	803	34	68
10/27/00	28,535	<33	775	1,339	80	165
10/30/00	30,730	<33	890	1,485	87	180
11/14/00	21,292	<16	574	1,387	127	153
11/27/00	14,268	<6	488	1,436	103	<6
12/13/00	834	0	264	1,095	95	203
1/24/01	5,268	<6	83	560	84	184
2/12/01	2,634	<16	25	365	57	131
2/24/01	2,634	<13	14	292	80	190

Note: * ppmv – parts per million (volumetric)
** The laboratory originally reported the data as µg/L. The data was converted into ppmv to compare to AcuVac data.

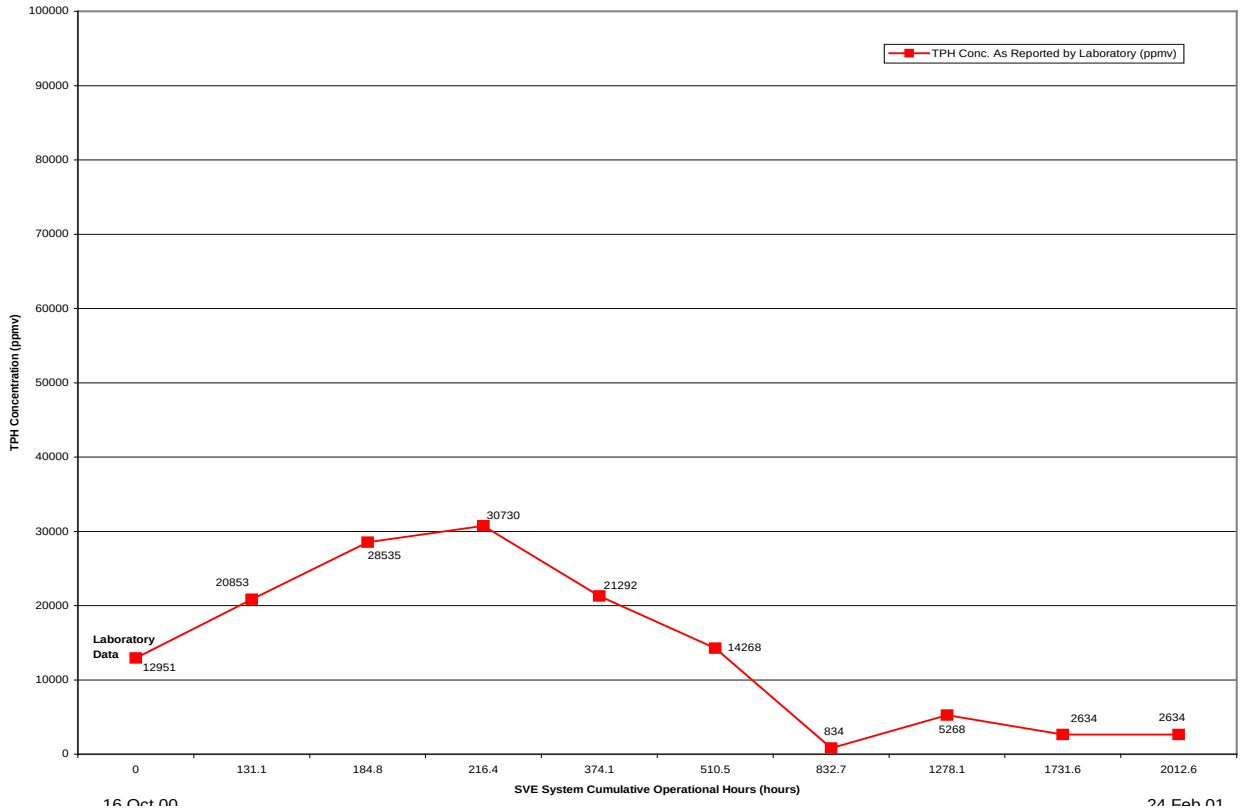

Figure 8-1. Reduction in TPH Concentration

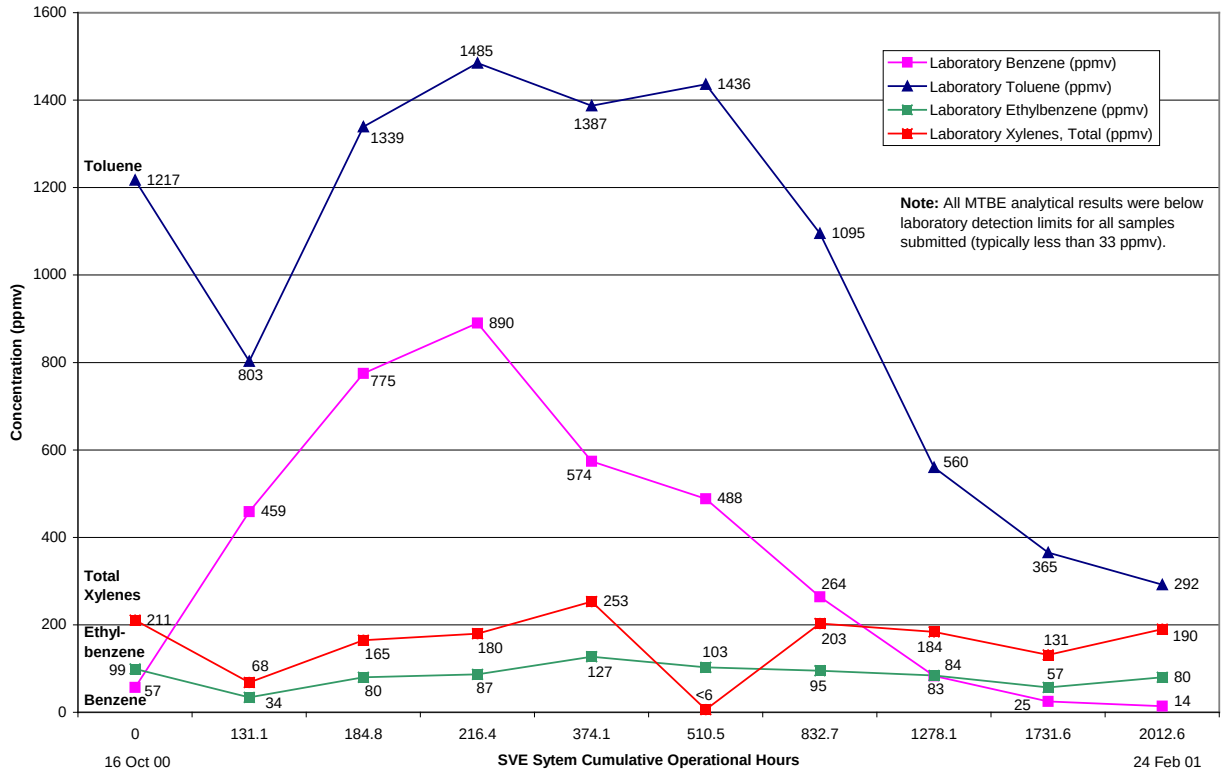

Figure 8-2. Reduction in BTEX Concentration

White Sands estimates that the SVE system removed from the subsurface and subsequently burned approximately 1,790 gal (6,775 L) of gasoline. This estimate was based on known British Thermal Unit (BTU) requirements at specific revolutions per minute (rpm) settings for the six cylinder ICE. AcuVac Remediation provided White Sands with known BTU requirements at three rpm settings: 1,800 rpm, 2,000 rpm, & 2,200 rpm (see Table 8-2). The data is based on tests performed by AcuVac Remediation with an identical SVE system in Lubbock, TX.

Table 8-2. ICE BTU Requirements

rpm setting	BTU Requirement to maintain rpm setting
1,800	228,000
2,000	252,000
2,200	264,000

Given the above rpm & BTU data, a crude linear power curve was generated to provide BTU requirements at various rpm settings. The rpm vs. BTU power curve used to determine BTU requirements at specific rpm settings is shown in Figure 8-3.

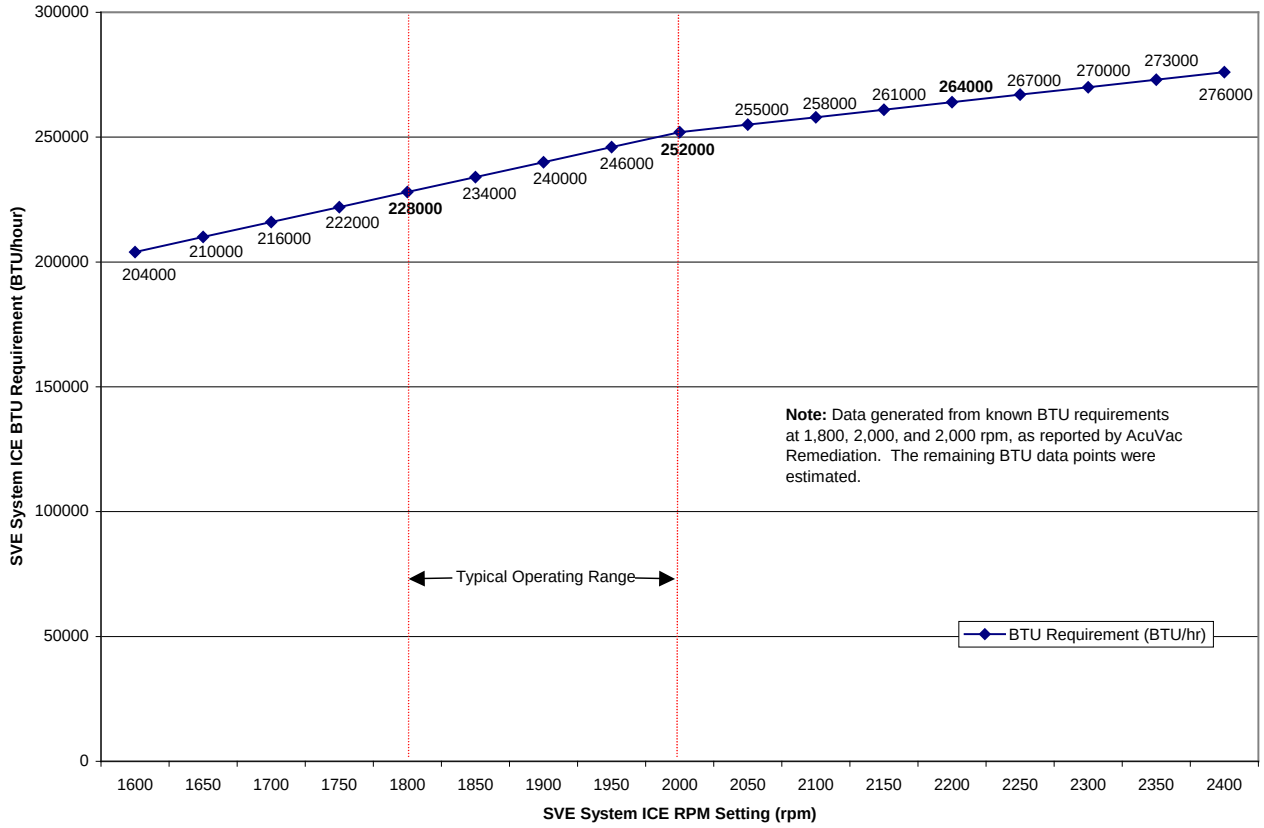

Figure 8-3. RPM vs BTU Power Curve for the SVE System

A Microsoft™ Excel spreadsheet was developed to calculate and sum all daily gasoline removal estimates for the life of the project. A copy of the spreadsheet is in Appendix N. A description of the mathematical equation used to determine the mass and volume of gasoline removed from the subsurface and burned by the SVE system was determined as follows:

Equation 1. Mass Removal Estimate

$$\textbf{lbs of gasoline burned during time interval (lbs)} = \left[\left[\text{BTU rqmt. for rpm setting (BTU/hr)} - \left(\text{Propane flow rate } (ft^3/hr) * \text{0.60 (gauge efficiency)} * \frac{\text{2,520 BTU}}{ft^3 \text{ propane}}\right)\right] * \frac{\text{1 lb}}{\text{Gasoline}}\right] * \text{Time interval (hr)}$$

Equation 2. Conversion from Mass of Gasoline Removed to Volume of Gasoline Removed

$$\textbf{Gallons of gasoline burned during time interval (gal)} = \left[\text{lbs of gasoline burned during time interval (lbs)} * \frac{\text{1 gal gasoline}}{\text{6.3 lbs}}\right]$$

An example calculation using data on 24 February 2001 is as follows:

To determine the mass of gasoline removed between 21 February 2001 and 24 February 2001 the following data is input into equation 1:

> **BTU requirement for rpm setting:** Refer to the daily operation log (Appendix L) for 2/21/01. The rpm setting was 2000 rpm. To account for subtle variations in the rpm, the rpm was reduced by 10% before determining the BTU requirement. To determine the actual BTU requirement, refer to the RPM vs. BTU Power Curve in Figure 8-3 above. The BTU requirement for the rpm setting as of 21 February 2001 was 228,000 BTU.
> **Propane flow rate:** Refer to the daily operation log (Appendix L) for 21 February 2001. The propane flow rate, as set on 21 February 2001, was 115 cubic feet per hour.
> **Time interval:** The system operated for a total of 66.4 hours between 21 February 2001 and 24 February 2001 at the aforementioned settings.

After entering the values into equation 1, the total pounds of gasoline burned during 66.4 hours between 21 February 2001 and 24 February 2001 was 175.3 pounds, which approximately converts to 27.8 gallons (using equation 2).

Naturally, as the TPH concentration in the subsurface decreased over time, the system required additional propane to meet the engine's BTU requirements. As previously stated, the system operated from time 0 through 277.1 hours solely off of the TPH vapors extracted from the subsurface. Propane was gradually increased for the remaining 1,735.5 hours to maintain optimum engine settings. Figure 8-4 shows the gasoline burn rate and the propane consumption rate throughout the life of the project.

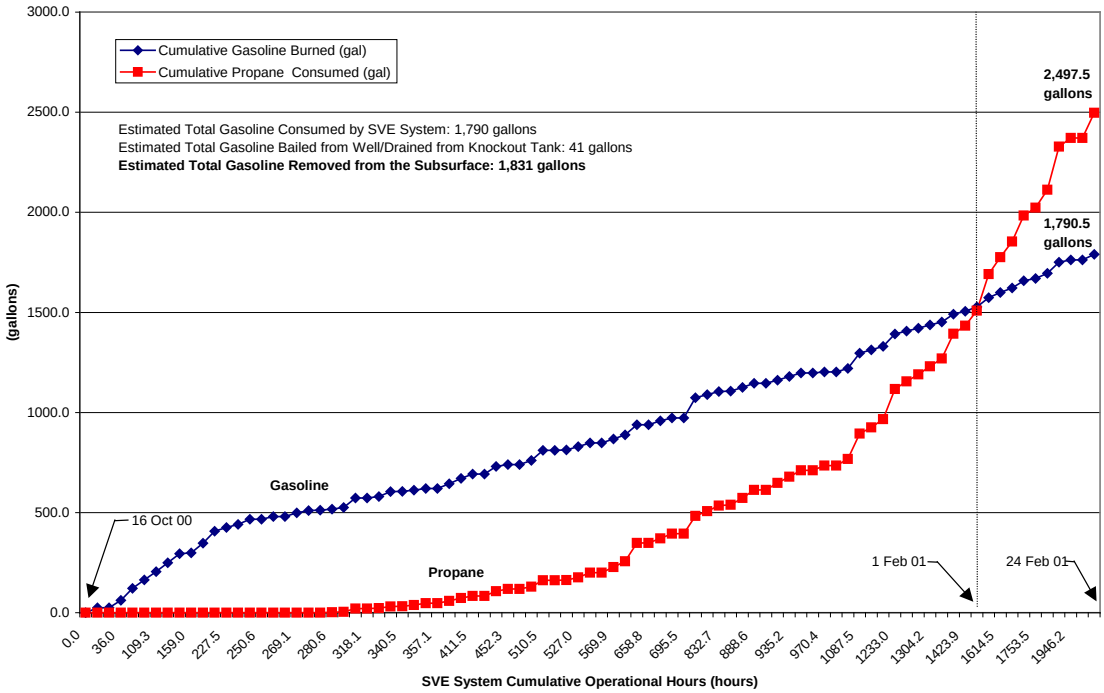

Figure 8-4. Gasoline Burn Rate and Liquid Propane Consumption Rate

As shown above, White Sands estimates that the SVE system consumed an estimated 1,790 gal (6,775 L) of gasoline in addition to 41 gal (155L) bailed from the extraction well for a total of 1,831 gal (6,931 L), which is greater than the reported release of 1,485 gal (5,620 L).

9.0 CONCLUSION

Based on the results of the soil and preliminary groundwater investigation, the horizontal and vertical extent of gasoline contamination was determined. The majority of the release was held in surface tension between the ground surface and approximately 28 ft (8.5 m) bgs. Concentrations of benzene and toluene were detected in the shallow, perched water-bearing zone in excess of WQCC Standards. However, this water is not potable due to TDS concentration of 26,000 mg/L. Laboratory analysis of samples collected from the regional aquifer upgradient and downgradient of the release site, which has a TDS concentration of approximately 8,000 mg/L, did not detect any gasoline range TPH or any other gasoline components.

As a prudent landowner, White Sands operated a SVE system at the site for a total of four months, during which time it is estimated that approximately 1,790 gal (6,775 L) of gasoline were removed from the subsurface. Analytical results of air samples collected from HVW-01 during operation of the SVE system indicated that subsurface TPH concentrations were reduced from approximately 30,700 ppm to approximately 2,200 ppm. Additionally, it is noted that subsurface benzene and toluene concentrations were significantly reduced as well. Obviously additional soil and groundwater sampling will be required in the near future to determine the effectiveness of the abatement action, verify that gasoline has not reached the regional aquifer, and potentially collect additional data for a site risk assessment. After receipt of NMED comments, White Sands will initiate additional actions at the site as required.

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WQCC, 1996. New Mexico Water Quality Control Commission Regulations, New Mexico Administrative Code, Title 20, Chapter 6, Part 2.

APPENDIX A

CORRESPONDENCE WITH NMED

TO:
Wyatt, Glenda

From: Kyle Williams[SMTP:Kyle.Williams@mevatec.com]
Sent: Thursday, April 06, 2000 9:31 AM
To: George Moon
Subject: HELSTF TSA POL Soil Sampling

The soils contamination investigation at the HELSTF POL includes sample collection and analyses for Total Petroleum Hydrocarbons (gas range organics), BTEX and MTBE. Many regulatory agencies have historically required methanol extraction of these soil samples in the field, and submission of the extract to the laboratory for proper analysis.

MEVATEC is capable of performing this procedure, but we have conserns about this procedure. Specifically, the unleaded gasoline spill occurred within the last month, and volatile phase constituents are continually off-gassing at the site. MEVATEC is conserned the sample extracts may possibly become contaminated at the site.

We are proposing use of California Rings (Brass rings) in a split-spoon sampler to obtain soil samples. The rings would be sealed at the site with Teflon end caps, sealed in a ziploc bag, cooled and shipped to the laboratory for extraction in a controlled environment. We feel this procedure would minimize the possibility of sample contamination, thereby insuring more accurate sample analyses.

J. Kyle Williams
Staff Geologist
MEVATEC Corp.
White Sands Missile Range, NM

kwilliams@mevatec.com

48hrs to extraction

Julie,

Please let me know if this is acceptable or not. We don't want to do something & have it be wrong & our data declared not acceptable. I would appreciate your comments as soon as you can as we need to get our plan together.

Thanks

Glenda

678-2224 / 8615

Glenda - I checked this out w/ the UST Bureau & they said its OK IF the sample is analyzed within 48 hours of the time it was taken in the field. Julie J. (otherwise we will not accept the data as valid) Steve

have gene on rotation on the call for verification for Reply. 678-4028

- Called Glenda 4/10/00, Gene + Robyn were also on

DEPARTMENT OF THE ARMY

U.S. ARMY WHITE SANDS MISSILE RANGE
WHITE SANDS MISSILE RANGE, NEW MEXICO 88002-5048

April 7, 2000

REPLY TO
ATTENTION OF

Environment and Safety Directorate

Ms. Julie Jacobs
Groundwater Quality Bureau
New Mexico Environment Department
2044 Galisteo
P.O. Box 26110
Santa Fe, New Mexico 87502

Dear Ms. Jacobs:

This is a follow-up to our earlier report, dated March 22, 2000, as required by New Mexico Water Quality Control Commission Regulation, 20 New Mexico Administrative Code 6.2, Section 1203.A.6. Based on the analytical results and the qualitative hand auger borings, we have confirmed that an unleaded gasoline release occurred at the HELSTF Technical Support Area (TSA) vehicle fueling point. It is estimated that the plume's radius is approximately 16-18 feet horizontally and reaches to a depth in excess of 18 feet below ground surface (bgs). The location of the release site is shown at Tab A.

On March 17, 2000, MEVATEC, the White Sands Missile Range (White Sands) Environmental Services Support contractor, completed three hand auger borings at the TSA vehicle fueling point to determine the location and severity of the release. A site map showing the location of the hand auger borings is at Tab B. Soil types encountered during the hand auger investigation were generally gypsum sand dune with intermittent thin layers of clayey silts. Each depth-specific soil sample was submitted to an A2LA certified laboratory for total petroleum hydrocarbon (TPH) analysis. Analytical results are summarized in Table 1 of Tab C.

On March 24, 2000, MEVATEC completed three additional qualitative hand auger borings to approximately determine the horizontal extent of contamination. A photo-ionization detector (PID) was used during this event to determine the general presence or absence of gasoline. Table 2 summarizes the qualitative analysis of these hand auger borings. Field activities were documented using digital photography. Copies of the photographs are at Tab D.

White Sands will complete a thorough soil and preliminary groundwater investigation to delineate the horizontal and vertical extent of the gasoline contamination. We will install an up-gradient groundwater monitoring well to determine the depth to groundwater as well as its quality. Upon verification of depth to and quality of the groundwater, and the vertical extent of

contamination, we will determine if additional down-gradient groundwater monitoring wells are required to fully characterize this site, and install same as needed. White Sands anticipates performing the drilling activities during the week of May 1-8, 2000. Following delineation of contamination, we will develop a corrective action plan to remediate the site. We are considering the following possible remedial actions: (1) Natural attenuation; (2) In-situ remediation (soil vapor extraction, bio venting, etc.); (3) Excavation and disposal of all contaminated soil.

Based on the results of the soil and preliminary groundwater investigation, we will submit the necessary corrective action (remediation or abatement) plan for your approval as soon as it is developed. If extended investigation or analysis is required to develop the plan we will notify you and request an extension within the required timeframe.

White Sands is very concerned about a conflict existing in the various NMED regulations concerning this type of event. We are having difficulty determining whether the Groundwater Quality Bureau (GQB) or the Hazardous and Radioactive Materials Bureau (HRMB) have primacy of authority over this event. In addition, we are concerned about conflicts in the GQB and HRMB regulations regarding the reporting and/or remediation requirements for this and similar events. Our interpretation is that your bureau has primacy under Section 1203 of the Groundwater Quality Regulations. Section I.E of the installation's "Part B" Hazardous Waste Facility Permit administered by HRMB does not appear to directly apply to this incident, since the spill did not occur at any of our permitted Hazardous Waste sites or Solid Waste Management Units. The current situation places White Sands in the untenable position of trying to simultaneously report and remediate an environmental contamination incident to two different agencies, which have significantly different reporting requirements, remediation standards, and working procedures. It is impossible to simultaneously satisfy both Bureaus' rules. It appears to us that following one Bureau's set of rules will create a violation within the other set of rules, regardless of which we chose to follow. We trust that you understand our concerns.

Until this conflict is resolved by NMED we plan on executing the remediation for this site under the GQB regulations. We will, however, provide copies of all information developed to both GQB and HRMB. Should it be appropriate, we would be happy to host a meeting between White Sands and representatives of GQB, HRMB, and NMED to develop a viable resolution to this situation. We are confident that developing a cooperative resolution would be beneficial to the aforementioned parties and the public we all represent. We look forward to receiving a definitive response on this issue from Mr. Lewis in the near future.

Please contact Mr. Gene Forsythe or Ms. Glenda Wyatt at (505) 678-2224 if you have any questions.

Sincerely,

Thomas A. Ladd

Thomas A. Ladd
Director, Environment and Safety Directorate

Enclosures

Copies Furnished:
Phillip Solano HRMB
Greg Lewis, Water and Waste Management Division, NMED (w/o enclosures)
James P. Bearzi, HRMB, NMED (w/o enclosures)
John E. Kieling, HRMB, NMED (w/o enclosures)
Robert S. (Stu) Dinwiddie, HRMB
Justin S. Tade, SJA, White Sands Missile Range

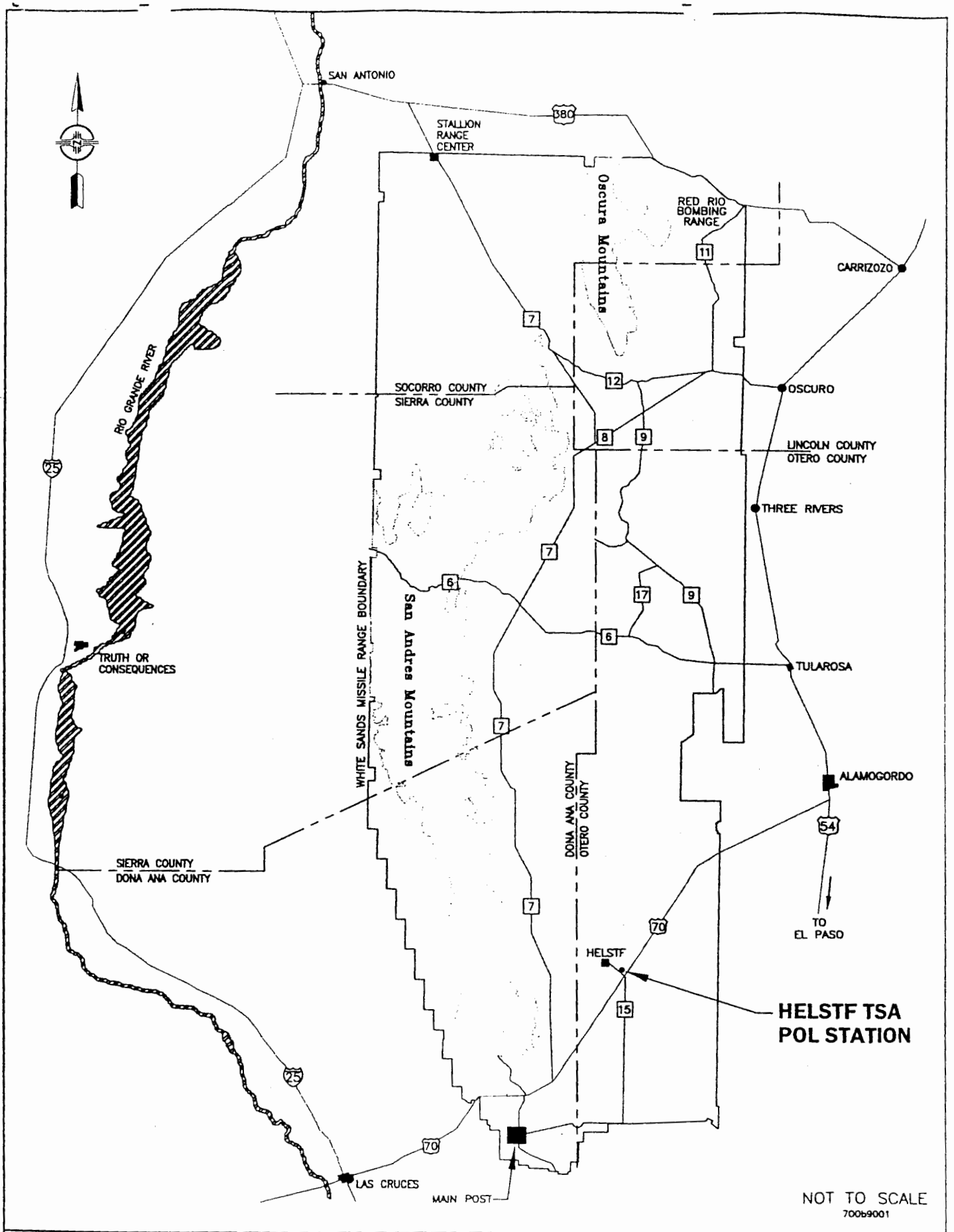


FIGURE 1

LOCATION OF PROJECT SITE

MEVATEC CORPORATION

Bldg. 126, 3rd Floor, P.O. Box 399

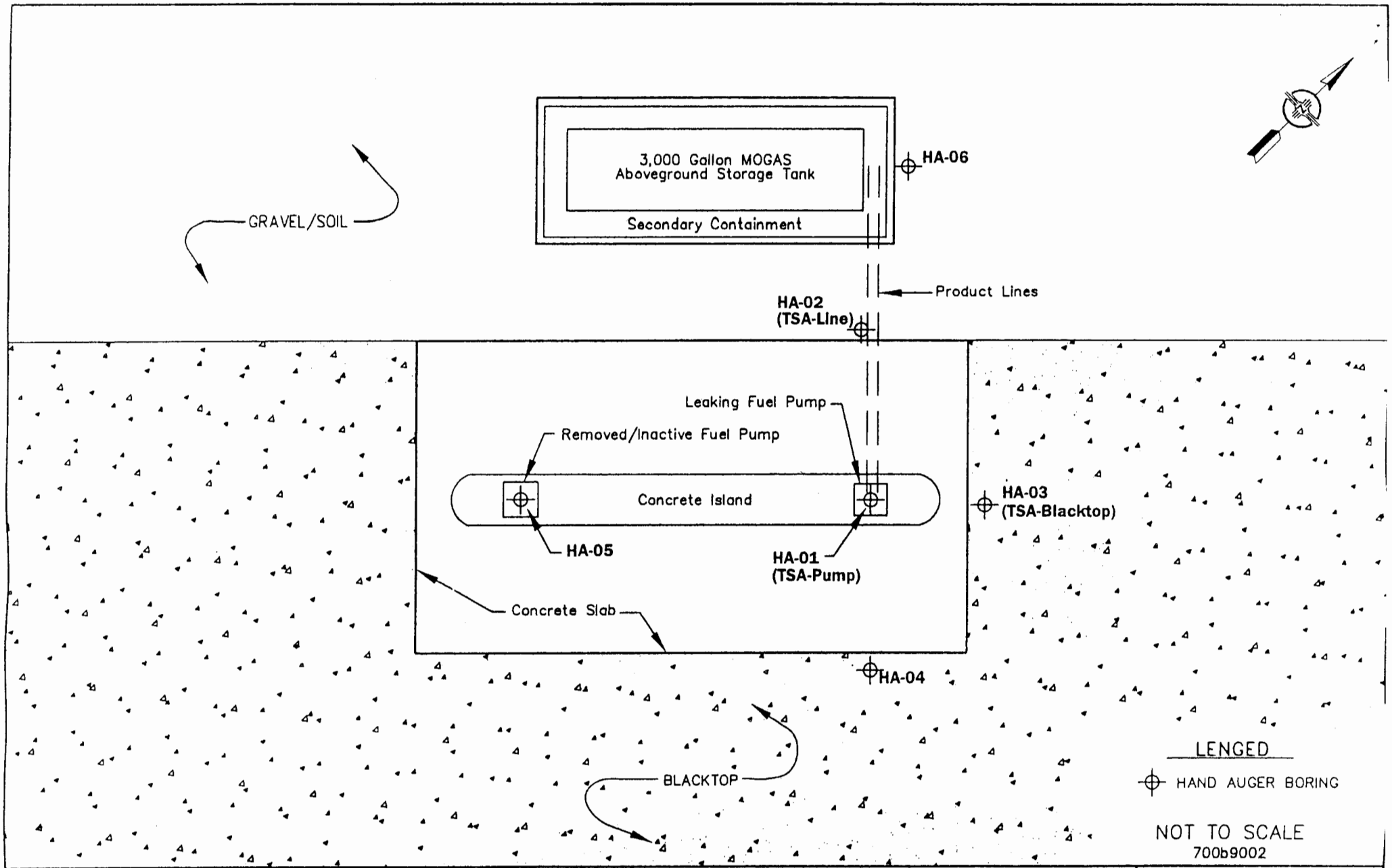


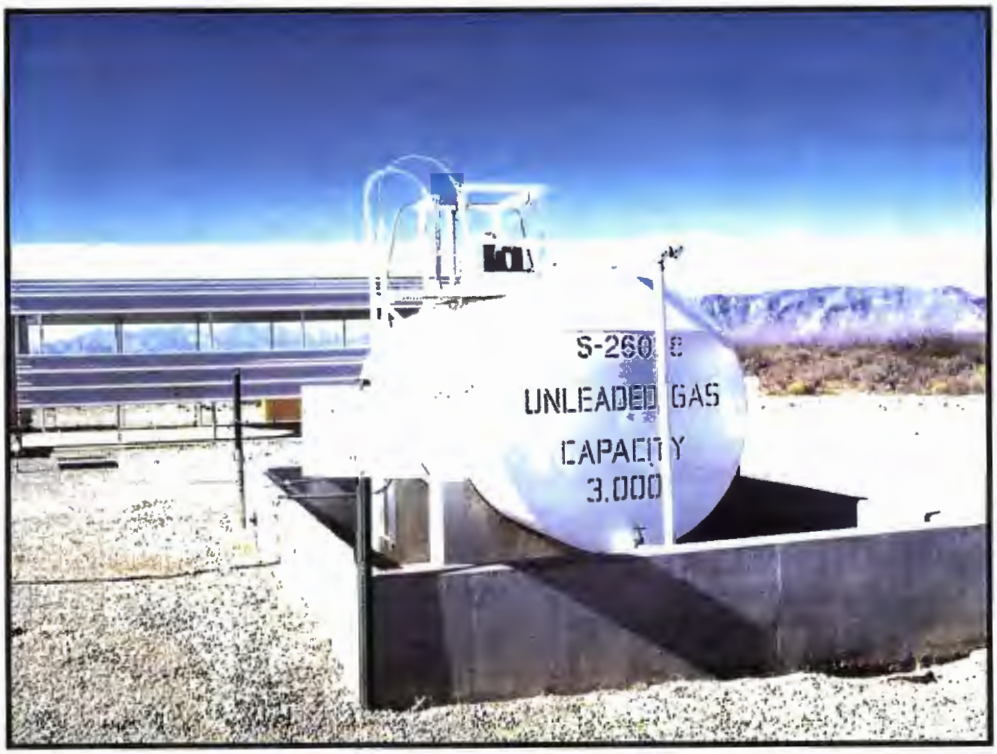
FIGURE 2

HARD AUGER INVESTICATION AT THE HELSTF
TECHNICAL SUPPORT AREA POL STATION
WHITE SANDS MISSILE RANGE, NM

MEVATEC
Bldg. 126, 3rd Floor, P.O. Box 399
White Sands Missile Range, NM 88002
(505)678-0263

APPENDIX B

PHOTOGRAPHS



Photograph 1.
3,000 gallon aboveground storage tank (AST) that supplies fuel to the fueling station.

Photograph 2.
Fueling island, 3,000 gallon AST, and fueling pump (source area).

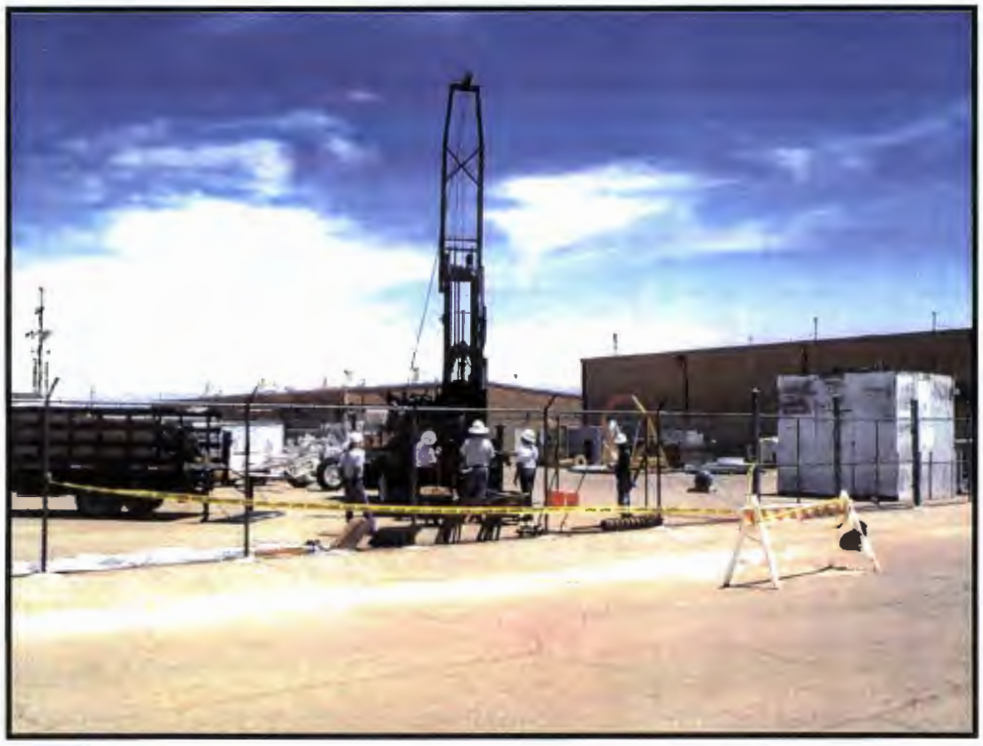
Photograph 3.
Hand augering HA-01 through the suspected center of the source area.

Photograph 4.
Product line between tank and fueling pump. Soil sample "TSA-line" was collected beneath the line via HA-02.

Photograph 5.
Hand augering HA-03 (formerly "TSA-Blacktop").

Photograph 6.
Hand augering HA-03. HA-01 (beneath the pump) is shown in the center of the photograph.

Photograph 7.
Drilling of HMW-48 (formerly MW-01) relative to the TSA fuel dispenser island.



Photograph 8.
Tierra Drilling on-hole at the HMW-48 (formerly MW-01) to monitor the regional aquifer.

Photograph 9.
Continuous core of from HMW-48 laid out for logging.

Photograph 10.
Drilling of SB-01 adjacent to the source. SB-01 was later cased with PVC and screened from 15-20 feet below ground surface. The screened vapor extraction well was surveyed and labeled as HVW-01.

Photograph 11.
Drilling of SB-03 to 40-feet bgs during the soil sampling phase of the HELSTF TSA gasoline investigation (May 2000). The pump island (source of contamination) is in the foreground.

Photograph 12.
Drilling of SB-04 southeast of the release source during the HELSTF TSA investigation in May 2000.

Photograph 13.
Using photo-ionization detector (PID) to monitor breathing zone.

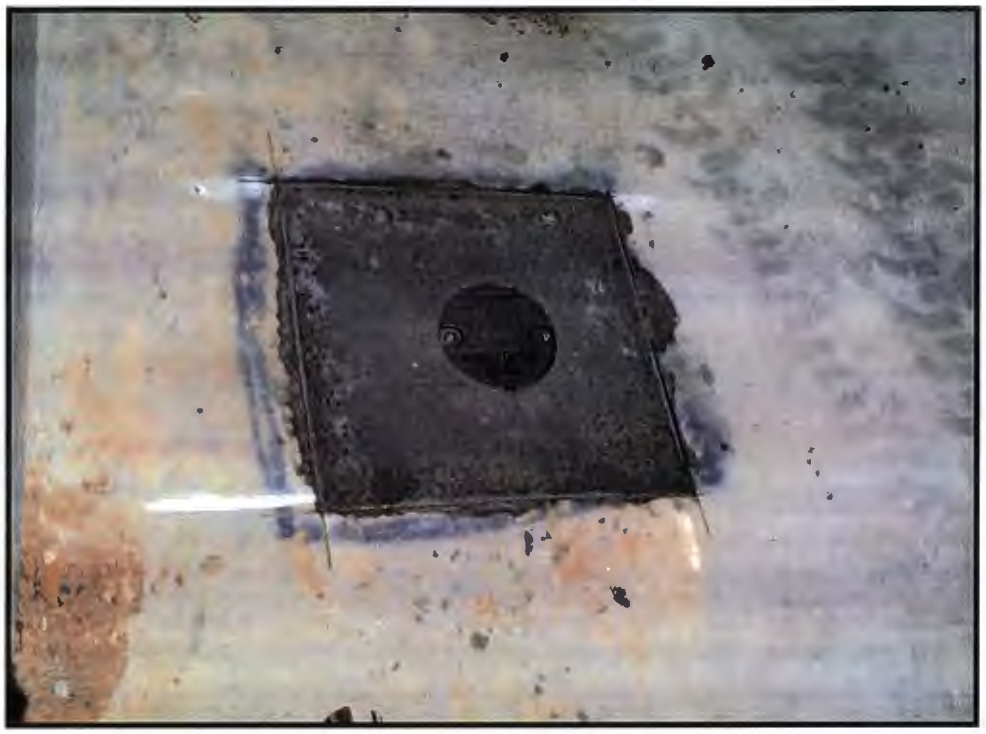
Photograph 14.
Decontamination pad for the TSA gasoline investigation in May 2000. Drilling rig is set up at SB-09.

Photograph 15.
Installation of HMW-49 during the investigation at HELSTF TSA, May 2000.

Photograph 16.
Installation of PVC screen through hollow-stem auger during completion of HMW-49 (formerly MW-02).

Photograph 17.
Installation of PVC casing in HMW-50 (formerly MW-03).

Photograph 18.
Surface completion of HMW-50 (formerly MW-03). HELSTF TSA vehicle wash station is in the near background.



Photograph 19.
Flush-mount surface completion of vapor well, HVW-01 (formerly SB-01).

Photograph 20.
AcuVac Remediation Inc. soil vapor extraction system.

Photograph 21.
Adjusting the air to fuel ratio.

Photograph 22.
Close-up view of system gauges, (red & blue) air to fuel adjustment knobs, water knockout tank, well pressure gauge, & air flow meter.

APPENDIX C

ANALYTICAL RESULTS,
MARCH 2000 HAND AUGER INVESTIGATION

30 March 2000
MCW-00-0167

Commander
U.S. Army White Sands Missile Range
Attn: CSTE-DTC-WS-ES (Ms. Y. Romero)
White Sands Missile Range, NM 88002-5048

Subject: WAO 700-B9, Deliverable; Soil and Preliminary Groundwater Investigation at the HELSTF TSA POL Station

Reference: Contract DAAD07-95-C-0125

Dear Ms. Romero:

MEVATEC submits the following deliverable for your review:

Letter Report – 15 Day Corrective Action Plan to the New Mexico Environment Department Groundwater Bureau

One hardcopy and one electronic copy was forwarded to the Technical Inspector, Ms. Glenda Wyatt. Please note that the enclosure contains draft analytical results. Per a conversation with the laboratory, final analytical results will be faxed to MEVATEC by 12:00 PM on 30 March 2000. Upon receipt of analytical results, MEVATEC will hand deliver copies of the final results to the Technical Inspector for inclusion with the submittal to the New Mexico Environment Department. Should you have any questions or require additional information, please contact me at 678-7907, George Moon at 678-0141, or Fred Bourger at 678-3426.

Sincerely,
MEVATEC Corporation

Nicholas Barrón

Nicholas Barrón, Ph.D.
Program Manager

Enclosure – above referenced deliverable

cc: Glenda Wyatt, TI, WS-ES-EC
George Moon P.E., Deputy Program Manager/Task Manager
Fred Bourger, Deputy Program Manager
✓Greg Watterson E.I., Task Coordinator
WAO file
Letter file

P.O. Box 399
White Sands Missile Range, NM 88002-0399
Voice (505) 678-0263 ♦ Fax (505) 678-6096

LETTER REPORT

The following letter report was prepared under Contract DAAD07-95-C-0125, WAO No. 700-B9.

1.0 Title – HELSTF TSA Leaking Aboveground Storage Tank Corrective Action Plan

2.0 Introduction

On 16 March 2000, the White Sands Missile Range (White Sands) Environmental Compliance Division (WS-ES-EC) was notified that a release of approximately 800 gallons of unleaded gasoline had possibly occurred at the Technical Support Area (TSA) Petroleum/Oil/Lubricants (POL) Station at HELSTF. The New Mexico Environment Department's (NMED) Groundwater Protection and Remediation Bureau was immediately notified in accordance with Section 1203 of the New Mexico Water Quality Control Commission Regulations (20 New Mexico Administrative Code 6.2). The location of the release site is shown in Figure 1 (Appendix A).

3.0 Initial Site Assessment Field Activities

3.1 Initial Hand Auger Borings

On 17 March 2000, MEVATEC completed three initial hand auger borings at the TSA POL Station to determine the location and severity of the unleaded gasoline release. A site map (Figure 2) is in Appendix A. Hand auger borings were completed at the following locations:

- Beneath the fuel pump to a depth of approximately 9 feet below ground surface (bgs) at a 45-degree angle. The boring was initially named as "TSA-Pump", and renamed as "HA-01". Two samples were collected: one at 3'-2" bgs and a second at 9'-0" bgs.

- Beneath the product lines on the north side of the concrete pad to a depth of approximately 9 feet bgs. The boring was initially named as "TSA-Line", and renamed as "HA-02". Two samples were collected: one at 6'-6" bgs and a second at 9'-0" bgs.

- Approximately 6 feet east of the fuel pump where the concrete pad and surrounding blacktop meet to a depth of approximately 9.5 feet bgs. The boring was initially named as "TSA-Blacktop", and renamed as "HA-03". Two samples were collected: one at 4'-0" bgs and a second at 9'-6" bgs.

Soil types encountered during the hand auger investigation were generally gypsum sand dune with intermittent thin layers of clayey silts. Each depth-specific soil sample were submitted to an A2LA certified laboratory for total petroleum hydrocarbon (TPH) analysis by Environmental Protection Agency (EPA) Method 8015 Modified for Gasoline Range Only (GRO), and Benzene, Toluene, Ethylbenzene, & Xylene plus Methyl Tert-butyl Ethene (BTEX + MTBE) analysis. Analytical results are summarized in Section 3.3 and copies of the results are in Appendix B.

Field activities were documented using digital photography. Copies of the photographs are in Appendix C.

3.2 Additional Hand Auger Borings

On 24 March 2000, MEVATEC completed three additional qualitative hand auger borings to approximately determine the extent of contamination. A photo-ionization detector (PID) was used to during completion of the additional hand auger borings. The locations of the additional hand auger borings are shown in Figure 2 (see Appendix A). Hand auger borings were completed in the following locations:

- At the south edge of the concrete pad where the concrete pad and blacktop meet to a depth of 9'-0" bgs. The boring was identified as "HA-04". Gasoline contaminated soil was evident at approximately 9'-0" bgs.

- Beneath the removed/inactive fuel pump to a depth of 18'-0" bgs. The boring was identified as "HA-05". Gasoline contaminated soil was evident throughout the length of the boring.

- At the aboveground storage tank adjacent to where the product lines enter the subsurface to a depth of 9'-6" bgs. The boring was identified as "HA-06". Contamination was not evident in the boring.

Table 3-1 summarizes the qualitative analysis of hand auger borings HA-04, HA-05, and HA-06.

Table 3-1. Qualitative Summary of Hand Auger Borings HA-04, HA-05, and HA-06

Hand Auger Boring	Depth Investigated	Comment
HA-04	10'-0" bgs	Contamination was evident at approximately 9'-0" bgs. The auger was advanced to 10'-0", where head space analysis using a PID indicated hydrocarbon levels at approximately 100 parts per million (ppm) at 10'-0" bgs.
HA-05	18'-0" bgs	Contamination was evident from approximately 2'-0" bgs to the maximum depth investigated. Head space analysis using a PID indicated hydrocarbon contamination at approximately 250 ppm at 17'-0" bgs.
HA-06	9'-6" bgs	Contamination was not evident throughout the length of the hand auger boring.

3.3 Analytical Results

Table 3-2 summarizes the draft analytical results for the soil samples collected from hand auger borings HA-01, HA-02, and HA-03.

Table 3-2. Analytical Results

Analyte of Concern	Analytical Results					
	HA-01 (TSA Pump)		HA-02 (TSA Line)		HA-03 (TSA Blacktop)	
	3.5-4.0' bgs	8.5-9.0' bgs	6-6' bgs	8.5-9.0' bgs	3.5-4.0' bgs	9.0-9.5' bgs
TPH GRO	15,000 mg/kg[a]	29,000 mg/kg	<50 mg/kg	<50 mg/kg	<50 mg/kg	23,000 mg/kg
Benzene	320 mg/kg	280 mg/kg	52 µg/kg[b]	<50 µg/kg	150 µg/kg	210 mg/kg
Toluene	1,800 mg/kg	1,600 mg/kg	120 µg/kg	58 µg/kg	260 µg/kg	1,200 mg/kg
Ethylbenzene	570 mg/kg	560 mg/kg	<50 µg/kg	<50 µg/kg	<50 µg/kg	340 mg/kg
Total Xylenes	1,700 mg/kg	1,700 mg/kg	<50 µg/kg	<50 µg/kg	<50 µg/kg	990 mg/kg
MTBE (total)	75 mg/kg	34 mg/kg	<50 µg/kg	<50 µg/kg	54 µg/kg	25 mg/kg

Notes: a) mg/kg – milligrams per kilogram (parts per million)
b) µg/kg – micrograms per kilogram (parts per billion)

3.4 Estimated Groundwater Depth and Quality

Three groundwater wells were used to approximate the depth and quality of the groundwater at the HELSTF TSA POL Station. Table 3-3 lists the wells, distance from the project site, depth to groundwater, and groundwater quality. Figure 3 (Appendix A) shows the locations of each well.

Table 3-3. Groundwater Quality of Nearest Groundwater Wells

Well Name	Distance and Direction from Project Site	Ground Surface Elevation	Depth to Groundwater and Sampling Date	Groundwater Quality
Baird South	0.9 miles NNE	3,966.85 feet	68.87 feet (3/3/99)	>10,000 mg/L
HELSTF1	0.6 miles NW	3,951.58 feet	68.87 feet (3/16/99)	>10,000 mg/L
B-38	0.8 miles S	3,983.29 feet	129.69 feet (3/2/99)	>10,000 mg/L
Estimation for Project Site	**N/A**	**3,960 feet (approx.)**	**85 feet (approx.)**	**>10,000 mg/L**

3.5 Initial Site Assessment Conclusion

Based on the analytical results and the qualitative hand auger borings, it was confirmed that an unleaded gasoline release occurred at the HELSTF TSA POL Station. It is estimated that the plume's radius is approximately 16-18 feet horizontally and reaches to a depth in excess of 18 feet bgs.

4.0 Proposed Soil and Preliminary Groundwater Investigation

White Sands will complete a thorough soil and preliminary groundwater investigation to delineate the horizontal and vertical extent of gasoline contamination. Per guidance from the NMED Groundwater Bureau, White Sands will install one upgradient groundwater monitoring well to determine the depth to groundwater and groundwater quality at the site.

Upon verification of depth to groundwater, groundwater quality, and the vertical extent of contamination, White Sands will contact the NMED Groundwater Bureau to determine if additional downgradient groundwater monitoring wells are required. White Sands anticipates performing the drilling activities during 1-8 May 2000.

5.0 Anticipated Corrective Action Alternatives

Following delineation of contamination, White Sands will develop a corrective action plan to remediate the site. As of now, White Sands is considering the following remedial actions:

- Natural Attenuation
- In-situ remediation (Soil vapor extraction, Bioventing, etc...)
- Excavation and proper disposal of all contaminated soil

Based on the results of the soil and preliminary groundwater investigation, White Sands will select and complete a remedial action that is both cost effective and protective of the environment.

6.0 MEVATEC Task Manager and Task Coordinator

The Task Manager and Task Coordinator for the above action are listed below.

Task Manager:	George Moon, P.E.	phone #: 678-0141
Task Coordinator:	Greg Watterson, E.I.	phone #: 678-1941

APPENDIX A

FIGURES

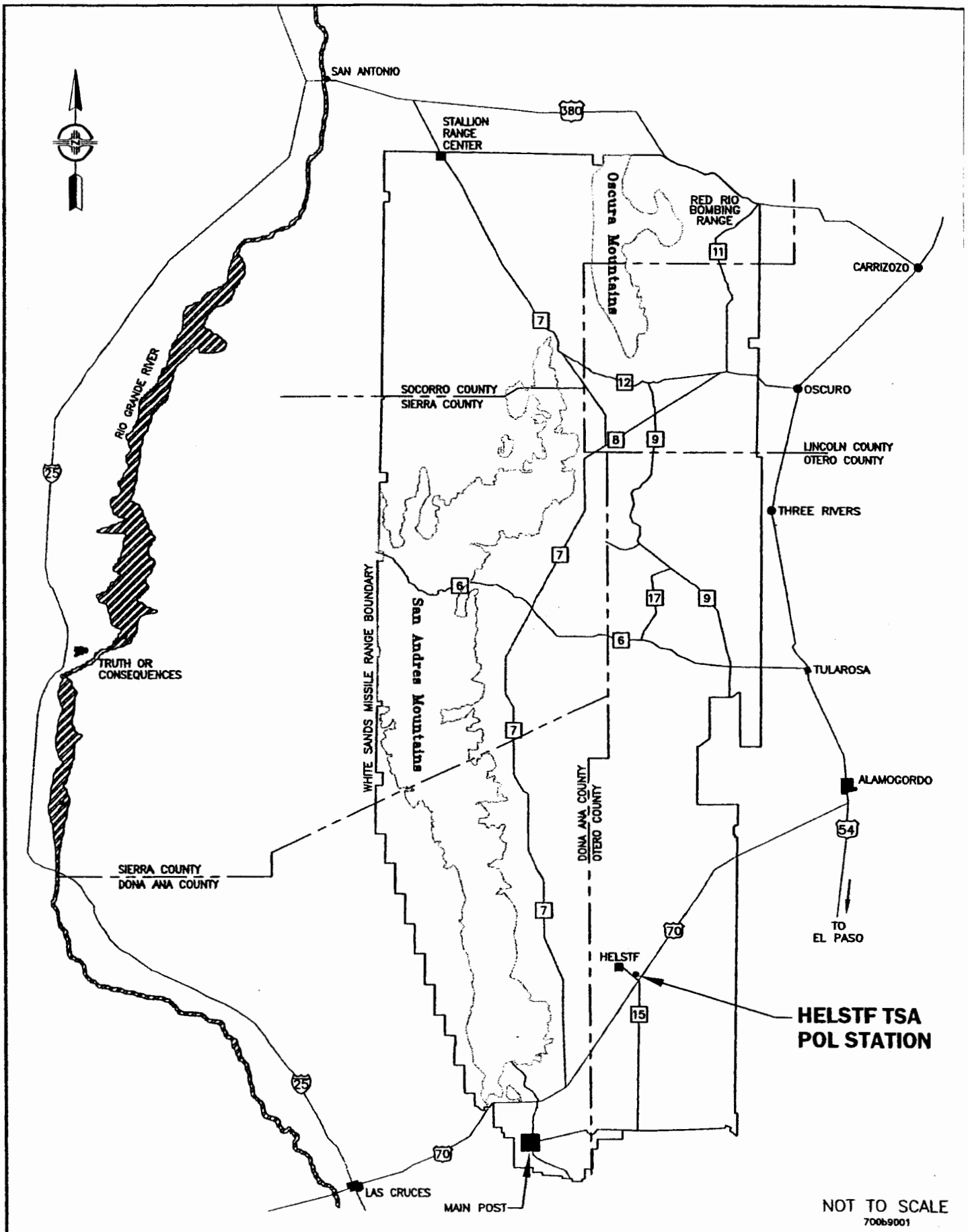


FIGURE 1

LOCATION OF PROJECT SITE

MEVATEC CORPORATION
Bldg. 126, 3rd Floor, P.O. Box 399
White Sands Missile Range, NM 88002
(505)678-0263

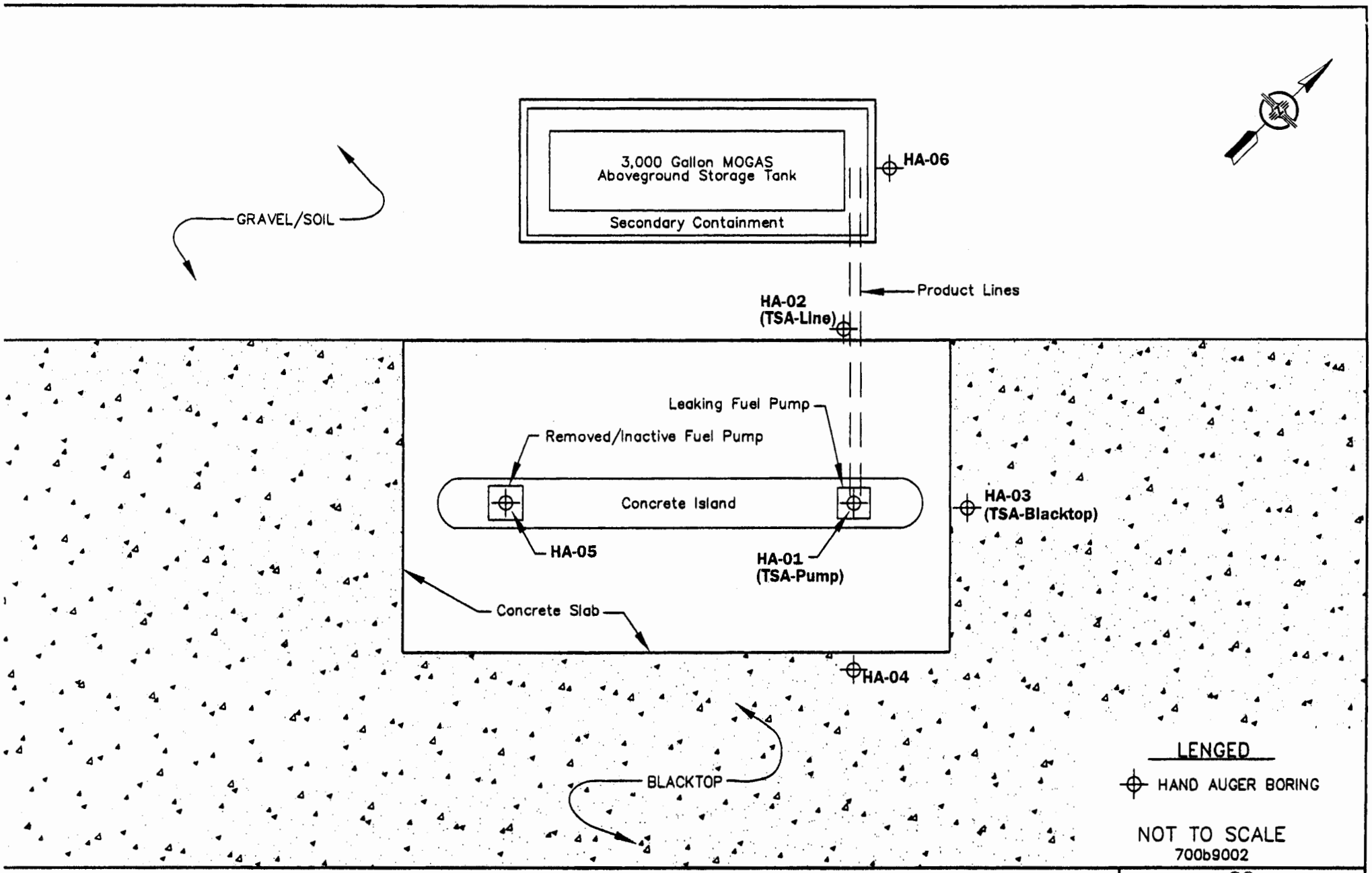


FIGURE 2

HARD AUGER INVESTICATION AT THE HELSTF
TECHNICAL SUPPORT AREA PO[illegible]TATION
WHITE SANDS MISSILE RANG[illegible] NM

Bldg. 126, 3rd [illegible] P.O. Box 399
White Sands Missi[illegible]nge, NM 88002
(505)678-0283

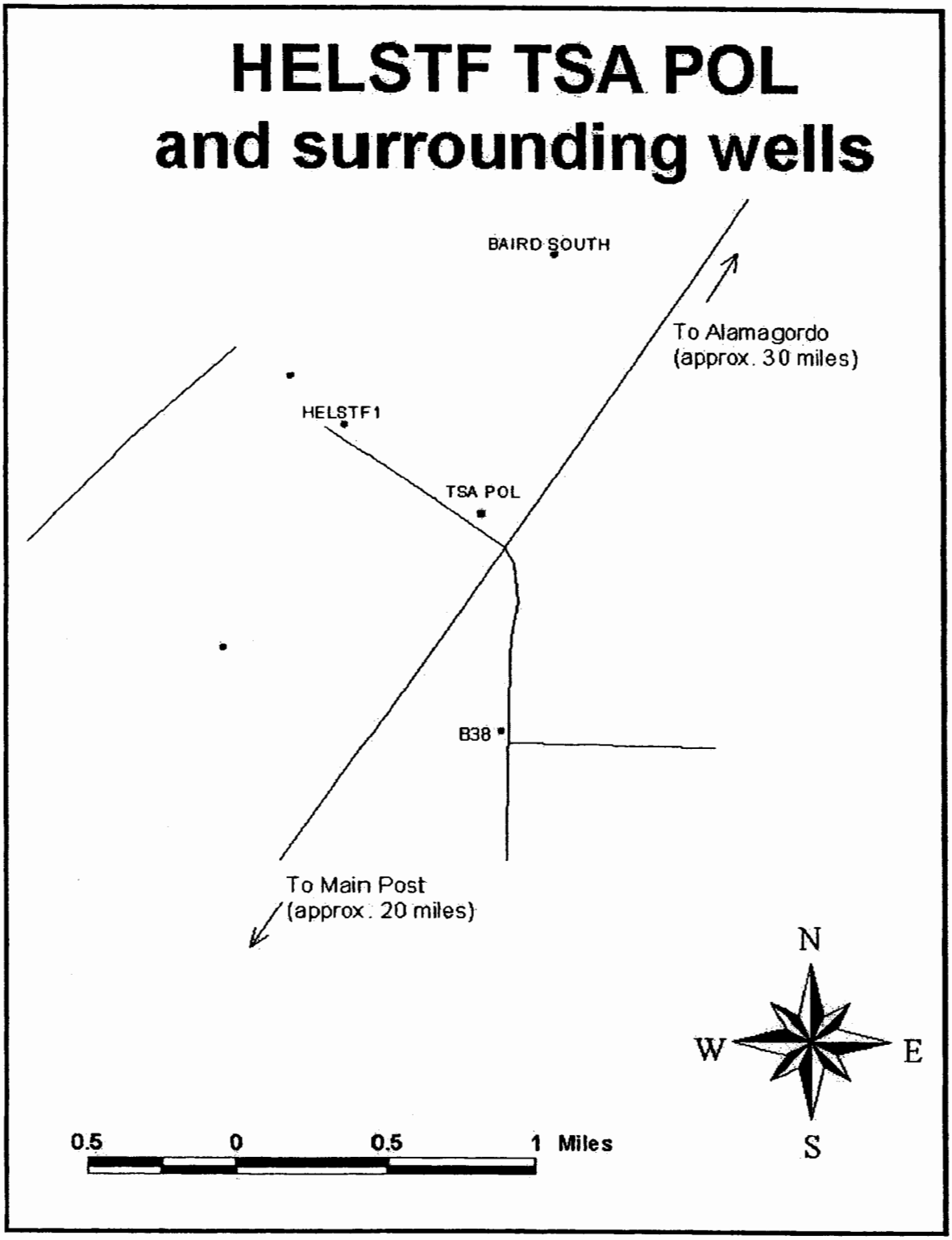


Figure 3. Location of Groundwater Wells Baird South, HELSTF1, and B38.

APPENDIX B

ANALYTICAL RESULTS FROM HAND AUGER BORINGS HA-01, HA-02, AND HA-03

MEVATEC CORPORATION
P.O. Box 399
Bldg. 126
WSMR, NM 88002
(505) 678-0263

CHAIN OF CUSTODY RECORD

PROJECT NO.: 30006
PROJECT NAME: TSA Sampling
SAMPLER'S SIGNATURE: [signature]

DATE COLLECTED	TIME COLLECTED	SAMPLE ID	MATRIX	LAB NO.	NO. OF CONTAINERS	+ MTBE BTEX	TPH-gas/Vol									REMARKS
3/17/00	0945	TSA-Pump-(3'-2")	Soil	20001087	3	X	X									
3/17/00	1022	TSA-Pump-(8.5'-9.0')	Soil	1088	3	X	X									
3/17/00	0855	TSA-Line-(6'-6")	Soil	1089	3	X	X									
3/17/00	1018	TSA-Line-(8.5'-9.0')	Soil	1090	3	X	X									
3/17/00	1034	TSA-Blacktop-(3.5'-4.0')	Soil	1091	3	X	X									
3/17/00	1050	TSA-Blacktop-(9.0'-9.5')	Soil	1092	3	X	X									

PROJECT INFORMATION		1. RELINQUISHED BY: (SIGNATURE)	2. RELINQUISHED BY: (SIGNATURE)	3. RECEIVED BY LABORATORY: (SIGNATURE)
PROJECT MANAGER: George Moon PE	SAMPLES RECEIVED	(PRINTED NAME) Greg Watterson	(PRINTED NAME)	(PRINTED NAME) W. WEIGAND
SHIPPING ID. NO.	TOTAL NO. OF CONTAINERS	RECEIVED BY:	RECEIVED BY:	(COMPANY) TRACE
VIA: Hand Deliver	CHAIN OF CUSTODY SEALS	(TIME / DATE) 3/17/00 13:42	(TIME / DATE)	(TIME / DATE) 3/17/00 13:42
	GOOD CONDITION/CHILLED	SPECIAL INSTRUCTIONS / COMMENTS: Goal: Delineate gasoline release area Temp 5°		
	CONFORMS TO RECORD			

PLEASE USE BALL POINT PEN

DISTRIBUTION: WHITE - PROJECT FILES; YELLOW - LAB; PINK - FIELD COPY

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7801 Ripley Avenue, Suite A El Paso, Texas 79922 888•588•3443 915•585•3443 FAX 915•585•4944
E-Mail: lab@traceanalysis.com

CLIENT MEVATEC CORPORATION
P.O. BOX 399, BLDG. 126
WSMR, NM 88002

SAMPLE NO.: 20001087
INVOICE NO.: 22105386
REPORT DATE: 03-30-00
REVIEWED BY: [illegible]
PAGE : 1 OF 2

CLIENT SAMPLE ID :	TS-Pump-(3'-2")	AUTHORIZED BY :	G. Moon
SAMPLE TYPE .....:	Soil	CLIENT P.O. :	--
SAMPLED BY .....:	G.W.	SAMPLE DATE ...:	03-17-00
SUBMITTED BY ....:	G.W.	SUBMITTAL DATE :	03-17-00
SAMPLE SOURCE ...:	TSA Sampling	EXTRACTION DATE:	--
ANALYST .....:	F. Martinez	ANALYSIS DATE .:	03-28-00

REMARKS -

Opening Calibration Verification standard was out of acceptance criteria by <3%.
Closing Calibration Verification standard was out of acceptance criteria by <7%.
Surrogate BFB was out of acceptance criteria in the Laboratory Control Spike.
Sample results reported in ppm.

Petroleum Contaminants by 8021B

DATA TABLE

Parameter	Result	Unit	Detection Limit
Benzene .....:	320	mg/Kg	4.0
Toluene .....:	1800	mg/Kg	4.0
Ethylbenzene .....:	570	mg/Kg	4.0
Total Xylenes .....:	1700	mg/Kg	4.0
Methyl Tert-Butyl Ether .....:	75.	mg/Kg	4.0

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WSMR, NM 88002

SAMPLE NO.: 20001087
INVOICE NO.: 22105386
REPORT DATE: 03-30-00
REVIEWED BY:

DATA TABLE (Cont.)

Surrogate Information -

	Percent Recovery	Range
aaa-Trifluorotoluene .....:	78.1	76-114
4-Bromofluorobenzene .....:	79.4	70-125

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SAMPLE NO.: 20001088
INVOICE NO.: 22105386
REPORT DATE: 03-30-00
REVIEWED BY: [illegible]
PAGE : 1 OF 2

CLIENT SAMPLE ID : TS-Pump-(8.5'-9.0')
SAMPLE TYPE .....: Soil
SAMPLED BY .....: G.W.
SUBMITTED BY ....: G.W.
SAMPLE SOURCE ...: TSA Sampling
ANALYST .....: F. Martinez

AUTHORIZED BY : G. Moon
CLIENT P.O. : --
SAMPLE DATE ...: 03-17-00
SUBMITTAL DATE : 03-17-00
EXTRACTION DATE: --
ANALYSIS DATE .: 03-28-00

REMARKS -

Opening Calibration Verification standard was out of acceptance criteria by <3%.
Closing Calibration Verificatin standard was out of acceptance criteria by <7%.
Surrogate BFB was out of acceptance criteria in the Laboratory Control Spike.
Sample results reported in ppm.

Petroleum Contaminants by 8021B

DATA TABLE

Parameter	Result	Unit	Detection Limit
Benzene .....:	280	mg/Kg	4.0
Toluene .....:	1600	mg/Kg	4.0
Ethylbenzene .....:	560	mg/Kg	4.0
Total Xylenes .....:	1700	mg/Kg	4.0
Methyl Tert-Butyl Ether .....:	34.	mg/Kg	4.0

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SAMPLE NO.: 20001088
INVOICE NO.: 22105386
REPORT DATE: 03-30-00
REVIEWED BY:
PAGE : 2 OF 2

DATA TABLE (Cont.)

Surrogate Information -

	Percent Recovery	Range
aaa-Trifluorotoluene .....:	81.4	76-114
4-Bromofluorobenzene .....:	81.1	70-125

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SAMPLE NO.: 20001089
INVOICE NO.: 22105386
REPORT DATE: 03-30-00
REVIEWED BY: il
PAGE : 1 OF 2

CLIENT SAMPLE ID : TS-Line-(6'-6")
SAMPLE TYPE .....: Soil
SAMPLED BY .....: G.W.
SUBMITTED BY ....: G.W.
SAMPLE SOURCE ...: TSA Sampling
ANALYST .....: F. Martinez

AUTHORIZED BY : G. Moon
CLIENT P.O. : --
SAMPLE DATE ...: 03-17-00
SUBMITTAL DATE : 03-17-00
EXTRACTION DATE: --
ANALYSIS DATE .: 03-28-00

REMARKS -

Opening Calibration Verification standard was out of acceptance criteria by <3%.
Closing Calibration Verification standard was out of acceptance criteria by <7%.
Surrogate BFB was out of acceptance criteria in the Laboratory Control Spike.

Petroleum Contaminants by 8021B

DATA TABLE

Parameter	Result	Unit	Detection Limit
Benzene	52.	ug/Kg	50.
Toluene	120	ug/Kg	50.
Ethylbenzene	<50.	ug/Kg	50.
Total Xylenes	<50.	ug/Kg	50.
Methyl Tert-Butyl Ether	<50.	ug/Kg	50.

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PAGE : 2 OF 2

DATA TABLE (Cont.)

Surrogate Information -

	Percent Recovery	Range
aaa-Trifluorotoluene ..... :	79.2	76-114
4-Bromofluorobenzene ..... :	79.8	70-125

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SAMPLE NO.: 20001090
INVOICE NO.: 22105386
REPORT DATE: 03-30-00
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PAGE : 1 OF 2

CLIENT SAMPLE ID : TS-Line-(8.5'-9.0')
SAMPLE TYPE .....: Soil
SAMPLED BY .....: G.W.
SUBMITTED BY ....: G.W.
SAMPLE SOURCE ...: TSA Sampling
ANALYST .....: F. Martinez

AUTHORIZED BY : G. Moon
CLIENT P.O. : --
SAMPLE DATE ...: 03-17-00
SUBMITTAL DATE : 03-17-00
EXTRACTION DATE: --
ANALYSIS DATE .: 03-28-00

REMARKS -

Opening Calibration Verification standard was out of acceptance criteria by <3%.
Closing Calibration Verificatin standard was out of acceptance criteria by <7%.
Surrogate BFB was out of acceptance criteria in the Laboratory Control Spike.

Petroleum Contaminants by 8021B

DATA TABLE

Parameter	Result	Unit	Detection Limit
Benzene	<50.	ug/Kg	50.
Toluene	58.	ug/Kg	50.
Ethylbenzene	<50.	ug/Kg	50.
Total Xylenes	<50.	ug/Kg	50.
Methyl Tert-Butyl Ether	<50.	ug/Kg	50.

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PAGE : 2 OF 2

DATA TABLE (Cont.)

Surrogate Information -

	Percent Recovery	Range
aaa-Trifluorotoluene .....:	79.5	76-114
4-Bromofluorobenzene .....:	80.4	70-125

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P.O. BOX 399, BLDG. 126
WSMR, NM 88002

SAMPLE NO.: 20001091
INVOICE NO.: 22105386
REPORT DATE: 03-30-00
REVIEWED BY: [illegible]
PAGE : 1 OF 2

CLIENT SAMPLE ID :	TS-Blacktop-(3.5'-4.0')	AUTHORIZED BY :	G. Moon
SAMPLE TYPE .....:	Soil	CLIENT P.O. :	--
SAMPLED BY .....:	G.W.	SAMPLE DATE ...:	03-17-00
SUBMITTED BY ....:	G.W.	SUBMITTAL DATE :	03-17-00
SAMPLE SOURCE ...:	TSA Sampling	EXTRACTION DATE:	--
ANALYST .....:	F. Martinez	ANALYSIS DATE .:	03-28-00

REMARKS -

Opening Calibration Verification standard was out of acceptance criteria by <3%.
Closing Calibration Verification standard was out of acceptance criteria by <7%.
Surrogate BFB was out of acceptance criteria in the Laboratory Control Spike.

Petroleum Contaminants by 8021B

DATA TABLE

Parameter	Result	Unit	Detection Limit
Benzene	150	ug/Kg	50.
Toluene	260	ug/Kg	50.
Ethylbenzene	<50.	ug/Kg	50.
Total Xylenes	<50.	ug/Kg	50.
Methyl Tert-Butyl Ether	54.	ug/Kg	50.

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E-Mail: lab@traceanalysis.com

ANALYTICAL REPORT

CLIENT MEVATEC CORPORATION
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WSMR, NM 88002

SAMPLE NO.: 20001091
INVOICE NO.: 22105386
REPORT DATE: 03-30-00
REVIEWED BY:

DATA TABLE (Cont.)

Surrogate Information -

	Percent Recovery	Range
aaa-Trifluorotoluene .....:	77.2	76-114
4-Bromofluorobenzene .....:	78.6	70-125

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E-Mail: lab@traceanalysis.com

ANALYTICAL REPORT

CLIENT MEVA ENGINEERING CORPORATION
P.O. BOX 399, BLDG. 126
WSMR, NM 88002

SAMPLE NO.: 20001092
INVOICE NO.: 22105386
REPORT DATE: 03-30-00
REVIEWED BY:
PAGE : 1 OF 2

CLIENT SAMPLE ID :	TS-Blacktop-(9.0'-9.5')	AUTHORIZED BY :	G. Moon
SAMPLE TYPE .....:	Soil	CLIENT P.O. :	--
SAMPLED BY .....:	G.W.	SAMPLE DATE ...:	03-17-00
SUBMITTED BY ....:	G.W.	SUBMITTAL DATE :	03-17-00
SAMPLE SOURCE ...:	TSA Sampling	EXTRACTION DATE:	--
ANALYST .....:	F. Martinez	ANALYSIS DATE .:	03-28-00

REMARKS -

Opening Calibration Verification standard was out of acceptance criteria by <3%.
Closing Calibration Verification standars was out of acceptance criteria by <7%.
Surrogate BFB was out of acceptance criteria in the Laboratory Control Spike.
Sample results reported in ppm.

Petroleum Contaminants by 8021B

DATA TABLE

Parameter	Result	Unit	Detection Limit
Benzene .....:	210	mg/Kg	4.0
Toluene .....:	1200	mg/Kg	4.0
Ethylbenzene .....:	340	mg/Kg	4.0
Total Xylenes .....:	990	mg/Kg	4.0
Methyl Tert-Butyl Ether .....:	25.	mg/Kg	4.0

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E-Mail: lab@traceanalysis.com

ANALYTICAL REPORT

CLIENT MEVATEC CORPORATION
P.O. BOX 399, BLDG. 126
WSMR, NM 88002

SAMPLE NO.: 20001092
INVOICE NO.: 22105386
REPORT DATE: 03-30-00
REVIEWED BY:

DATA TABLE (Cont.)

Surrogate Information -

	Percent Recovery	Range
aaa-Trifluorotoluene .....:	77.0	76-114
4-Bromofluorobenzene .....:	78.0	70-125

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CLIENT MEVATEC CORPORATION
P.O. BOX 399, BLDG. 126
WSMR, NM 88002

SAMPLE NO.: 20001087
INVOICE NO.: 22105386
REPORT DATE: 03-30-00
REVIEWED BY:
PAGE : 1 OF 2

CLIENT SAMPLE ID :	TS-Pump-(3'-2")	AUTHORIZED BY :	G. Moon
SAMPLE TYPE .....:	Soil	CLIENT P.O. :	--
SAMPLED BY .....:	G.W.	SAMPLE DATE ...:	03-17-00
SUBMITTED BY ....:	G.W.	SUBMITTAL DATE :	03-17-00
SAMPLE SOURCE ...:	TSA Sampling	EXTRACTION DATE:	--
ANALYST .....:	F. Martinez	ANALYSIS DATE .:	03-28-00

REMARKS -

Surrogate was out of acceptance criteria in the Method Blank.
Spikes were non-recoverable, possibly due to standard degradation.

TPH Gas by Mod 8015

DATA TABLE

Parameter	Result	Unit	Detection Limit
TPH Gas .....:	15000	mg/Kg	1000

ANALYTICAL RESULT(S) REPORTED HEREIN APPLY ONLY TO THE SAMPLE(S) TESTED. FURTHERMORE, THIS REPORT CAN ONLY BE COPIED IN ITS ENTIRETY.

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ANALYTICAL REPORT

CLIENT MEVA ENERGY CORPORATION
P.O. BOX 399, BLDG. 126
WSMR, NM 88002

SAMPLE NO.: 20001087
INVOICE NO.: 22105386
REPORT DATE: 03-30-00
REVIEWED BY:
PAGE : 2 OF 2

DATA TABLE (Cont.)

Surrogate Information -

	Percent Recovery	Range
1-ChloroOctane ..... :	111.0	80-120

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CLIENT MEVA ENERGY CORPORATION
P.O. BOX 399, BLDG. 126
WSMR, NM 88002

SAMPLE NO.: 20001088
INVOICE NO.: 22105386
REPORT DATE: 03-30-00
REVIEWED BY:
PAGE : 1 OF 2

CLIENT SAMPLE ID : TS-Pump-(8.5'-9.0')
SAMPLE TYPE .....: Soil
SAMPLED BY .....: G.W.
SUBMITTED BY ....: G.W.
SAMPLE SOURCE ...: TSA Sampling
ANALYST .....: F. Martinez

AUTHORIZED BY : G. Moon
CLIENT P.O. : --
SAMPLE DATE ...: 03-17-00
SUBMITTAL DATE : 03-17-00
EXTRACTION DATE: --
ANALYSIS DATE .: 03-28-00

REMARKS -

Surrogate was out of acceptance criteria in the Method Blank.
Spikes were non-recoverable, possibly due to standard degradation.

TPH Gas by Mod 8015

DATA TABLE

Parameter	Result	Unit	Detection Limit
TPH Gas .....:	29000	mg/Kg	1000

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ANALYTICAL REPORT

CLIENT MEVATEC CORPORATION
P.O. BOX 399, BLDG. 126
WSMR, NM 88002

SAMPLE NO.: 20001088
INVOICE NO.: 22105386
REPORT DATE: 03-30-00
REVIEWED BY: K

D A T A T A B L E (Cont.)

Surrogate Information -

	Percent Recovery	Range
1-ChloroOctane ..... :	107.0	80-120

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E-Mail: lab@traceanalysis.com

CLIENT MEVATEC CORPORATION
P.O. BOX 399, BLDG. 126
WSMR, NM 88002

SAMPLE NO.: 20001089
INVOICE NO.: 22105386
REPORT DATE: 03-30-00
REVIEWED BY:
PAGE : 1 OF 2

CLIENT SAMPLE ID : TS-Line-(6'-6")
SAMPLE TYPE .....: Soil
SAMPLED BY .....: G.W.
SUBMITTED BY ....: G.W.
SAMPLE SOURCE ...: TSA Sampling
ANALYST .....: F. Martinez

AUTHORIZED BY : G. Moon
CLIENT P.O. : --
SAMPLE DATE ...: 03-17-00
SUBMITTAL DATE : 03-17-00
EXTRACTION DATE: --
ANALYSIS DATE .: 03-28-00

REMARKS -

Surrogate was out of acceptance criteria in the Method Blank.
Spikes were non-recoverable, possibly due to standard degradation.

TPH Gas by Mod 8015

DATA TABLE

Parameter	Result	Unit	Detection Limit
TPH Gas .....:	<50.	mg/Kg	50.

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ANALYTICAL REPORT

CLIENT MEVATEC CORPORATION
P.O. BOX 399, BLDG. 126
WSMR, NM 88002

SAMPLE NO.: 20001089
INVOICE NO.: 22105386
REPORT DATE: 03-30-00
REVIEWED BY:
PAGE : 2 OF 2

DATA TABLE (Cont.)

Surrogate Information -

	Percent Recovery	Range
1-ChloroOctane ..... :	94.5	80-120

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E-Mail: lab@traceanalysis.com

CLIENT MEVATEC CORPORATION
P.O. BOX 399, BLDG. 126
WSMR, NM 88002

SAMPLE NO.: 20001090
INVOICE NO.: 22105386
REPORT DATE: 03-30-00
REVIEWED BY: K
PAGE : 1 OF 2

CLIENT SAMPLE ID : TS-Line-(8.5'-9.0')
SAMPLE TYPE .....: Soil
SAMPLED BY .....: G.W.
SUBMITTED BY ....: G.W.
SAMPLE SOURCE ...: TSA Sampling
ANALYST .....: F. Martinez

AUTHORIZED BY : G. Moon
CLIENT P.O. : --
SAMPLE DATE ...: 03-17-00
SUBMITTAL DATE : 03-17-00
EXTRACTION DATE: --
ANALYSIS DATE .: 03-28-00

REMARKS -

Surrogate was out of acceptance criteria in the Method Blank.
Spikes were non-recoverable, possibly due to standard degradation.

TPH Gas by Mod 8015

DATA TABLE

Parameter	Result	Unit	Detection Limit
TPH Gas .....:	<50.	mg/Kg	50.

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E-Mail: lab@traceanalysis.com

ANALYTICAL REPORT

CLIENT MEVA ENERGY CORPORATION
P.O. BOX 399, BLDG. 126
WSMR, NM 88002

SAMPLE NO.: 20001090
INVOICE NO.: 22105386
REPORT DATE: 03-30-00
REVIEWED BY:
PAGE : 2 OF 2

DATA TABLE (Cont.)

Surrogate Information -

	Percent Recovery	Range
1-ChloroOctane ..... :	85.4	80-120

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E-Mail: lab@traceanalysis.com

CLIENT MEVATEC CORPORATION
P.O. BOX 399, BLDG. 126
WSMR, NM 88002

SAMPLE NO.: 20001091
INVOICE NO.: 22105386
REPORT DATE: 03-30-00
REVIEWED BY:
PAGE : 1 OF 2

CLIENT SAMPLE ID : TS-Blacktop-(3.5'-4.0')
SAMPLE TYPE .....: Soil
SAMPLED BY .....: G.W.
SUBMITTED BY ....: G.W.
SAMPLE SOURCE ...: TSA Sampling
ANALYST .....: F. Martinez

AUTHORIZED BY : G. Moon
CLIENT P.O. : --
SAMPLE DATE ...: 03-17-00
SUBMITTAL DATE : 03-17-00
EXTRACTION DATE: --
ANALYSIS DATE .: 03-28-00

REMARKS -

Surrogate was out of acceptance criteria in the Method Blank.
Spikes were non-recoverable, possibly due to standard degradation.

TPH Gas by Mod 8015

DATA TABLE

Parameter	Result	Unit	Detection Limit
TPH Gas	<50.	mg/Kg	50.

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E-Mail: lab@traceanalysis.com

ANALYTICAL REPORT

CLIENT MEVATEC CORPORATION
P.O. BOX 399, BLDG. 126
WSMR, NM 88002

SAMPLE NO.: 20001091
INVOICE NO.: 22105386
REPORT DATE: 03-30-00
REVIEWED BY:
PAGE : 2 OF 2

DATA TABLE (Cont.)

Surrogate Information -

	Percent Recovery	Range
1-ChloroOctane ..... :	92.6	80-120

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E-Mail: lab@traceanalysis.com

CLIENT MEWATER CORPORATION
P.O. BOX 399, BLDG. 126
WSMR, NM 88002

SAMPLE NO.: 20001092
INVOICE NO.: 22105386
REPORT DATE: 03-30-00
REVIEWED BY:
PAGE : 1 OF 2

CLIENT SAMPLE ID :	TS-Blacktop-(9.0'-9.5')	AUTHORIZED BY :	G. Moon
SAMPLE TYPE .....:	Soil	CLIENT P.O. :	--
SAMPLED BY .....:	G.W.	SAMPLE DATE ...:	03-17-00
SUBMITTED BY ....:	G.W.	SUBMITTAL DATE :	03-17-00
SAMPLE SOURCE ...:	TSA Sampling	EXTRACTION DATE:	--
ANALYST .....:	F. Martinez	ANALYSIS DATE .:	03-28-00

REMARKS -

Surrogate was out of acceptance criteria in the Method Blank.
Spikes were non-recoverable, possibly due to standard degradation.

TPH Gas by Mod 8015

DATA TABLE

Parameter	Result	Unit	Detection Limit
TPH Gas .....:	23000	mg/Kg	1000

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E-Mail: lab@traceanalysis.com

ANALYTICAL REPORT

CLIENT MEWBOURNE CORPORATION
P.O. BOX 399, BLDG. 126
WSMR, NM 88002

SAMPLE NO.: 20001092
INVOICE NO.: 22105386
REPORT DATE: 03-30-00
REVIEWED BY:
PAGE : 2 OF 2

DATA TABLE (Cont.)

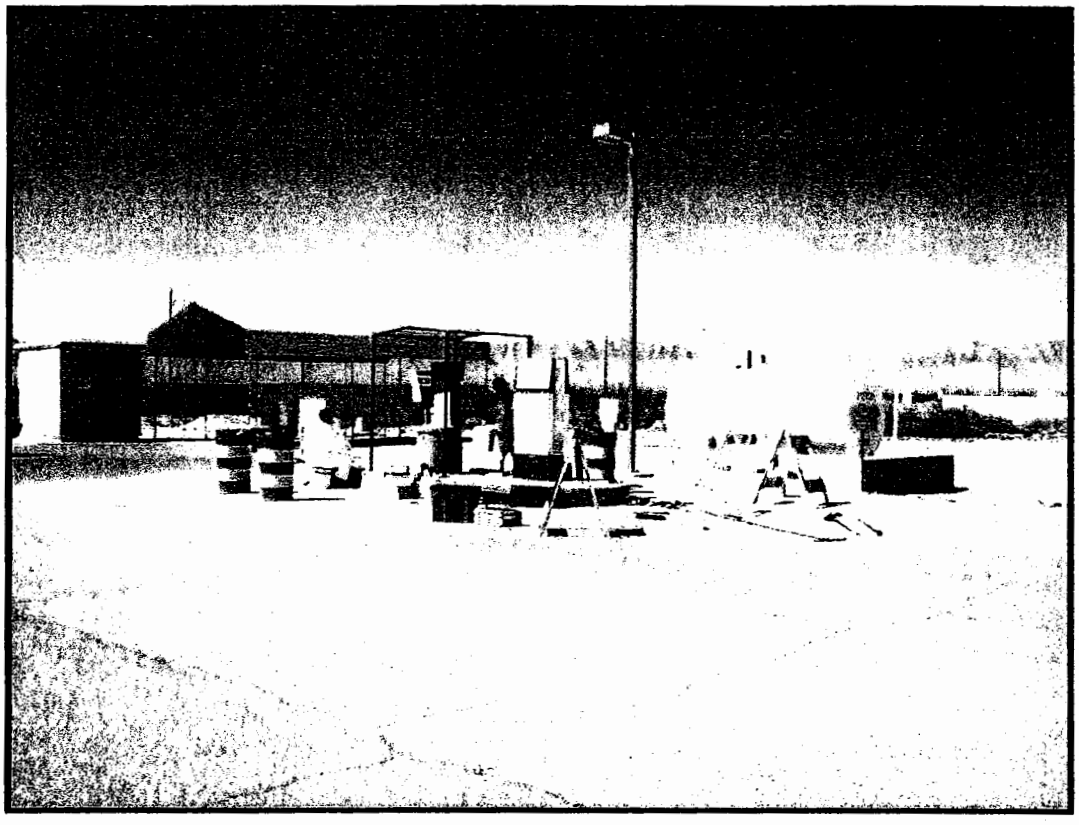
Surrogate Information -

	Percent Recovery	Range
1-ChloroOctane ..... :	105.0	80-120

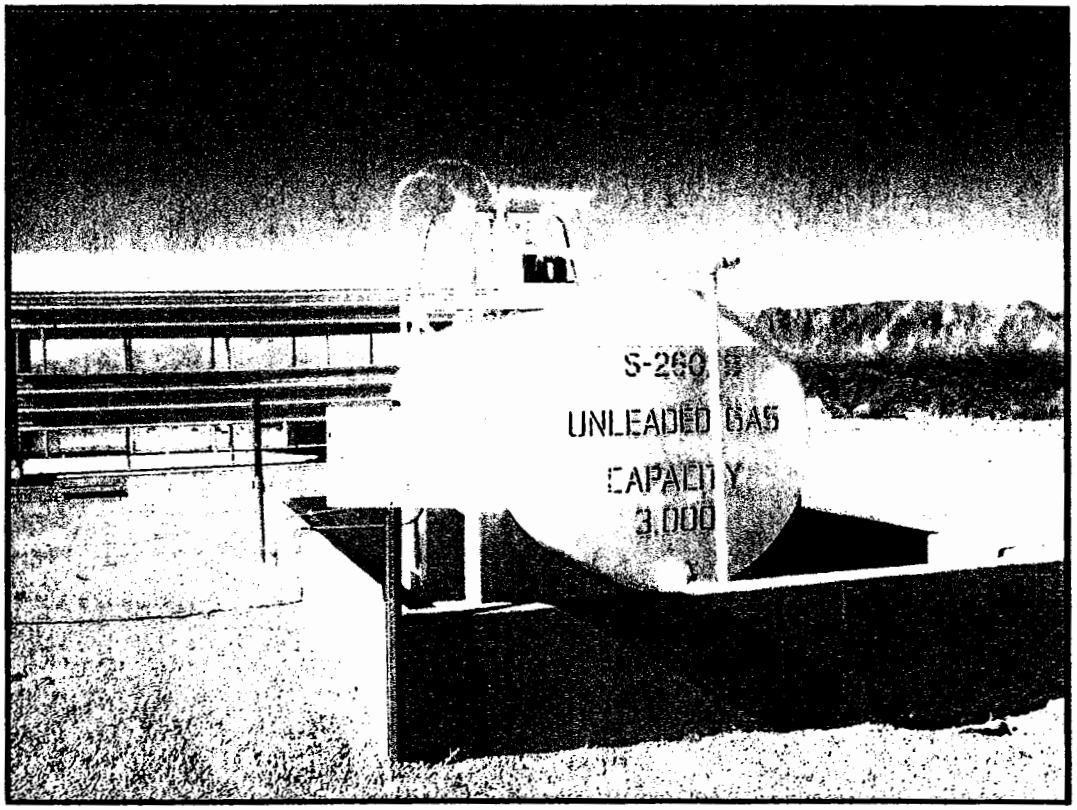
(1) Copy to Client

APPENDIX C

PHOTOGRAPHS

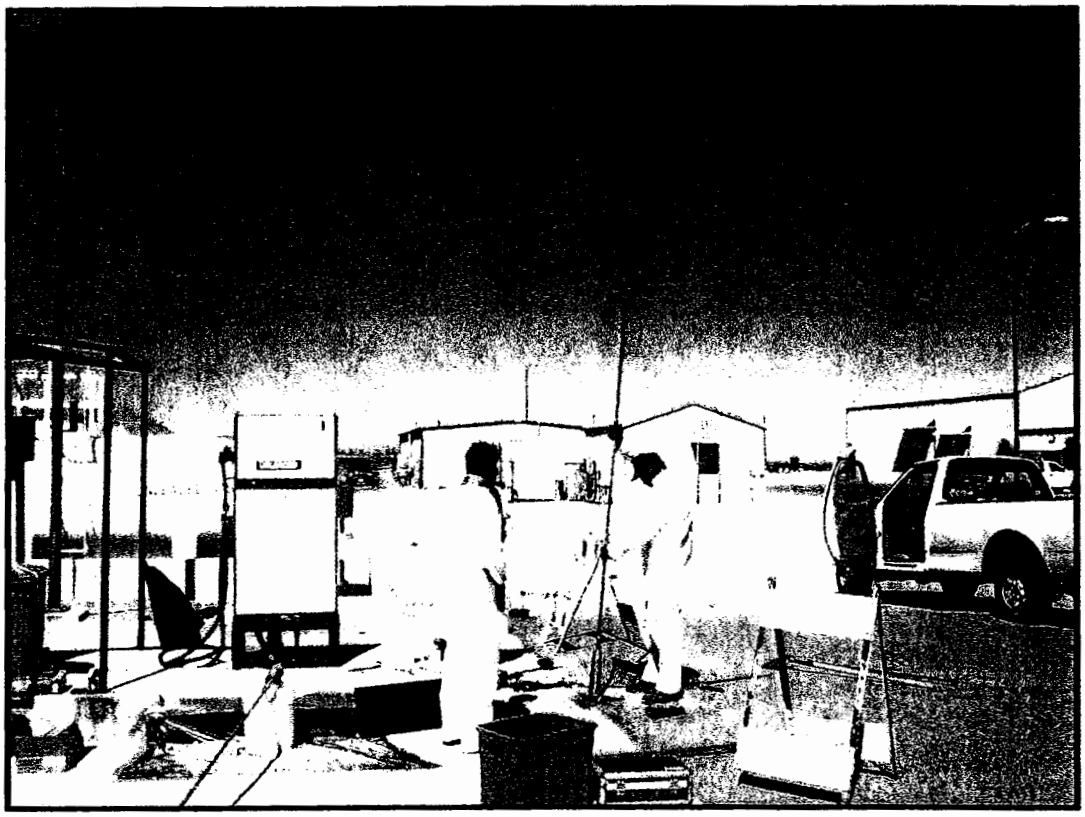


Photograph 1. HELSTF TSA POL Station

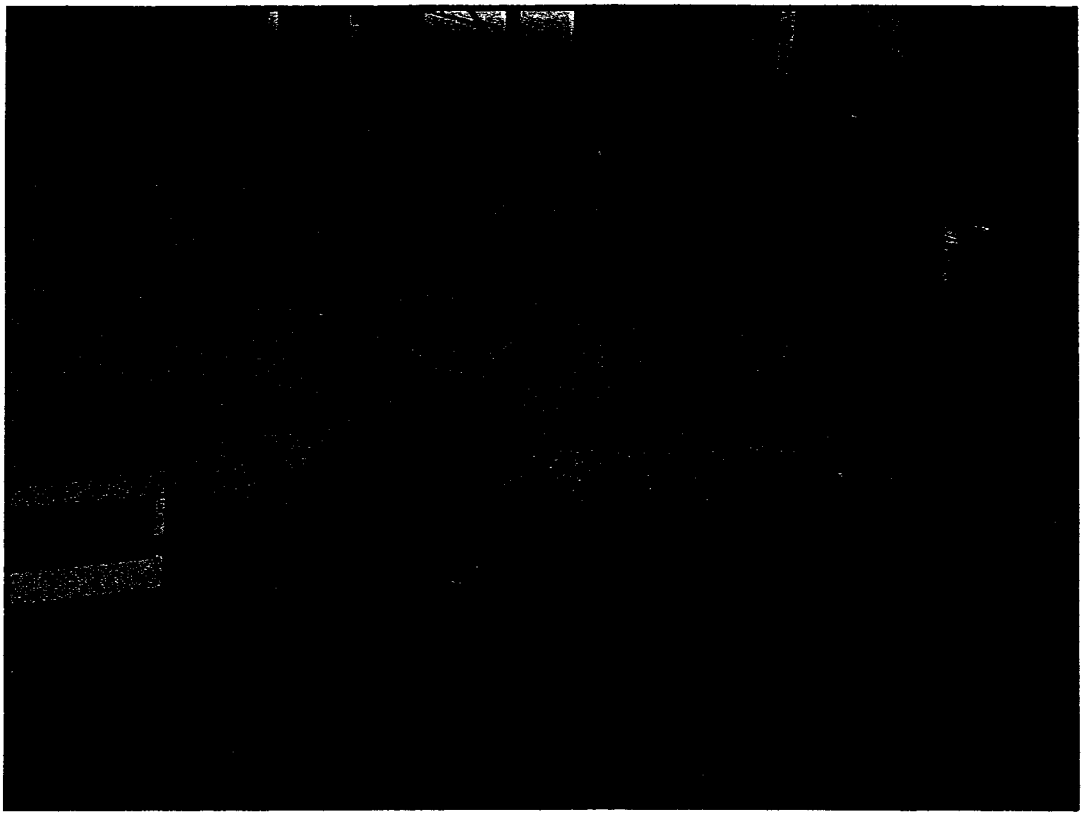


Photograph 2. 3,000 Gallon Unleaded Gasoline AST

Photograph 3. Hand augering HA-01 (foreground) and HA-02 (background).



Photograph 4. Hand augering borehole HA-03.



Photograph 5. Hand auger borings HA-04 (foreground) and HA-05 (back, left).

Photograph 6. Hand auger boring HA-06.

APPENDIX D

UTILITY CLEARANCE

Date: 4/18/00

MEMORANDUM FOR UTILITIES SERVICES SECTIONS

SUBJECT: UTILITY CLEARANCES Site Location: HELSTF TSA POL Station

1. Request that the individuals conducting the identification of existing utility lines at the construction site acknowledge identification of the utility by signing and dating by appropriate utility section listed below.

Ken Tlmblin 679-5314 Bldg 26050	GAS		Date:
	WATER/SEWER		Date: 4-19-00
	ELECTRICAL DEPT		Date:
	COMMO SECTION Wibur Kelly (x2162)		Date: 4/15/00
	EOD SECTION	N/A	Date: N/A
	FIRE DEPARTMENT		Date: 4/20/00

2. Above clearance does not relieve the contractor of responsibility to use proper excavation methods and due care while working around the approximate location of utility services.

3. Two site maps identifying the location of the proposed drilling activities are attached.

Requested by:

Greg Watterson, E.I.
MEVATEC Corporation
(678-1941)

Glenda Wyatt
Technical Inspector, WS-ES-EC
(678-8615)

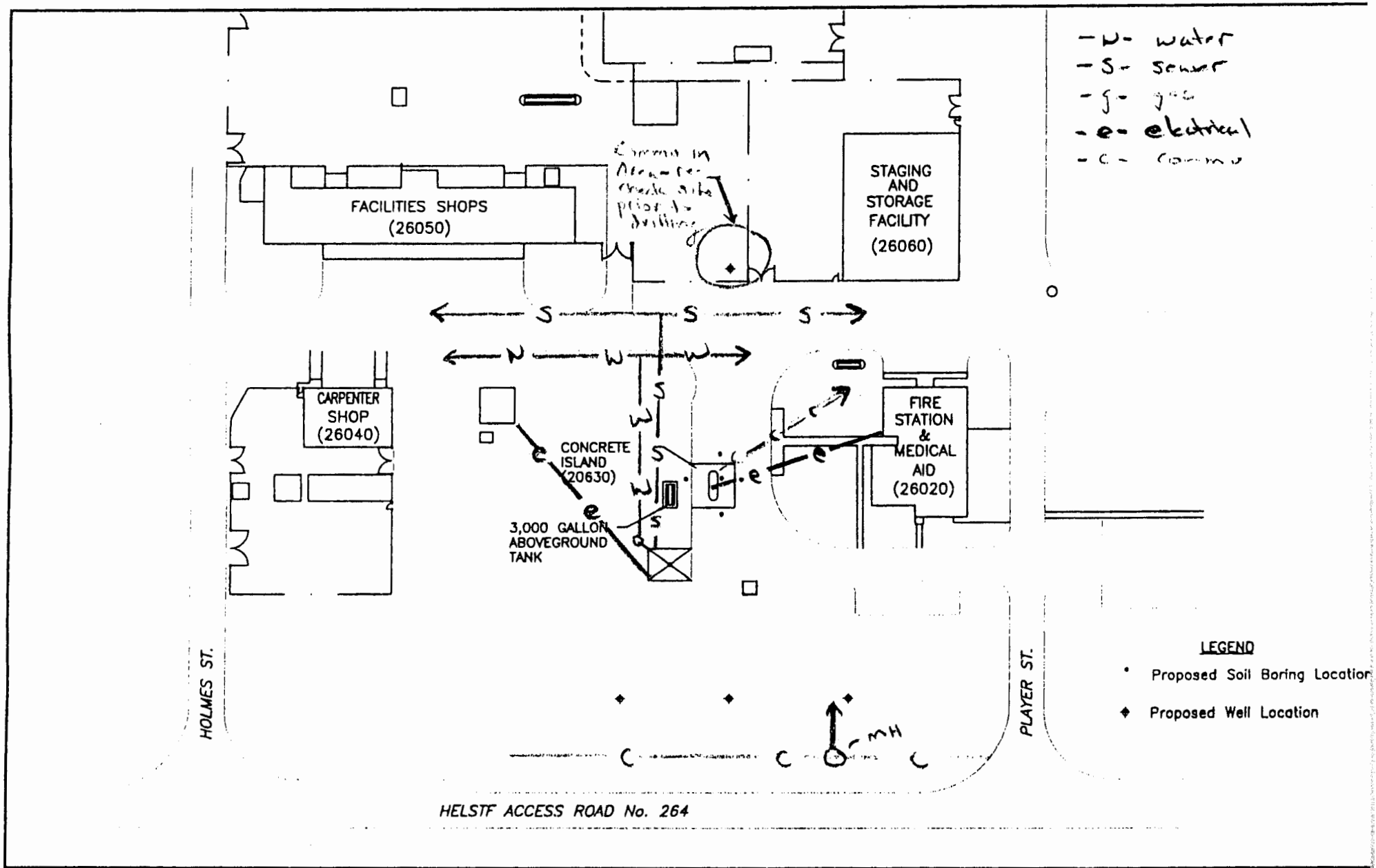


FIGURE 1

UTILITY CLEARANCES
HELSTF TSA POL ATION

Bldg. 17
White Sa
Floor, P.O. Box 399
aille Range, NM 8800
)678-0283

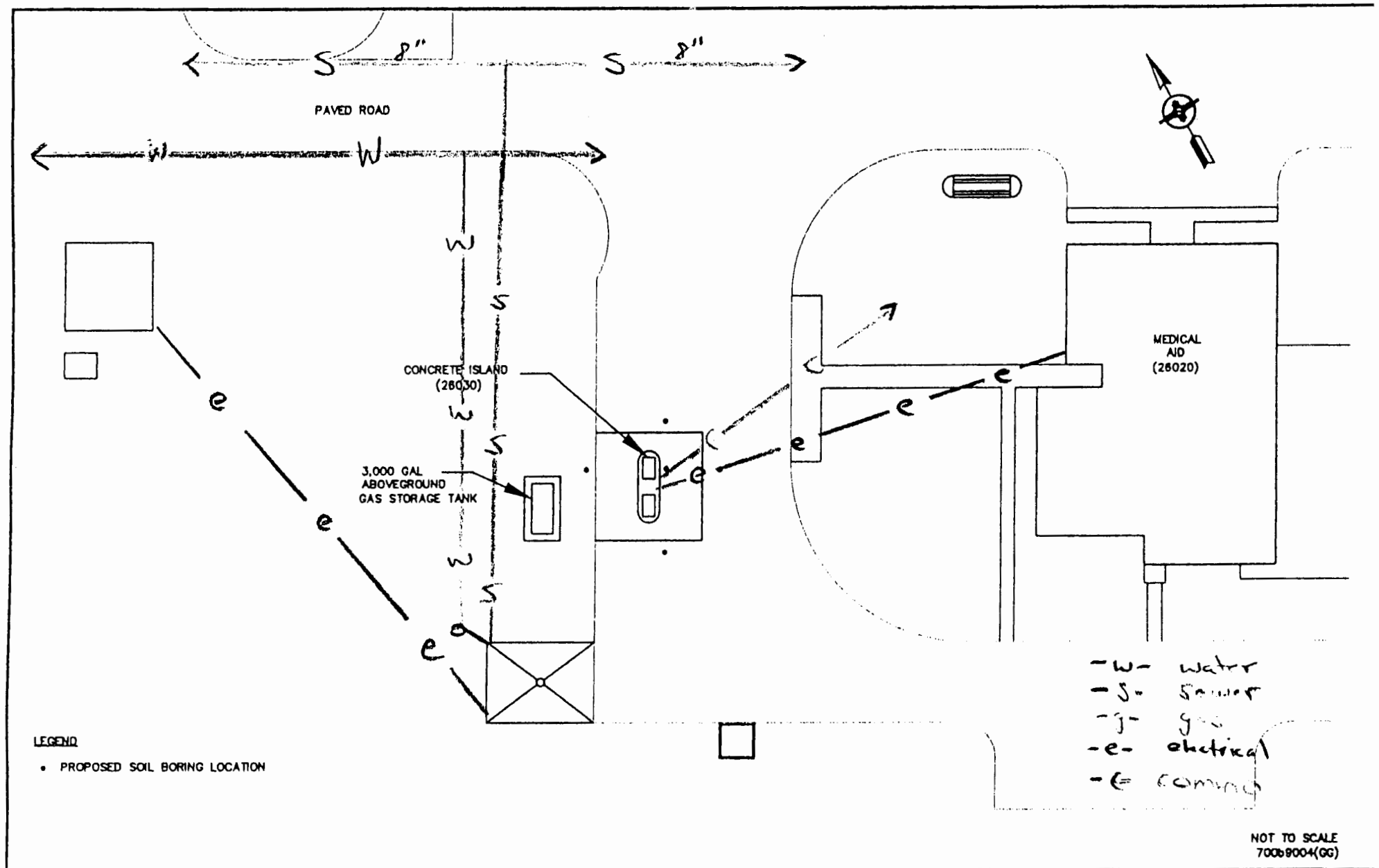


FIGURE 2

UTILITY CLEARANCES
HELSTF TSA POL STATION

MAYTEC
Bldg. 126, 3rd Floor, P.O. Box 399
White Sands Missile Range, NM 88002
(505)678-0283

APPENDIX E

SITE SPECIFIC HEALTH AND SAFETY PLAN

In Case of Emergency, contact:

Fire

Land Line on WSMR: 117
Land Line/Cell Phone: 678-9128/1234
Off Range: 911

HELSTF Medical Aid Station

Land Line/Cell Phone: 679-5164/5167
Off Range: 911

Main Post Clinic

Land Line/Cell Phone: 678-2882

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1. AGENCY USE ONLY (LEAVE BLANK)	2. REPORT DATE	3. REPORT TYPE AND DATES COVERED
	27 April 2000	1-12 May 2000 or as required

4. TITLE AND SUBTITLE
Site Specific Health and Safety Plan for the Soil and Preliminary Groundwater Investigation at the HELSTF TSA POL Station

5. FUNDING NUMBERS

6. AUTHOR(S)
Greg Watterson, E.I.

7. PERFORMING ORGANIZATION NAMES(S) AND ADDRESS(ES)
MEVATEC Corporation
Box 399
WSMR, NM 88002

8. PERFORMING ORGANIZATION REPORT NUMBER
300GG/00/004F

9. SPONSORING/MONITORING AGENCY NAMES(S) AND ADDRESS(ES)
U.S. Army White Sands Missile Range
WS-ES-EC
Attn: Glenda Wyatt, Technical Inspector

10. SPONSORING/MONITORING AGENCY REPORT NUMBER
300GG/00/004F

11. SUPPLEMENTARY NOTES

12a. DISTRIBUTION AVAILABILITY STATEMENT
D, Available upon request.

12b. DISTRIBUTION CODE

13. ABSTRACT (MAXIMUM 200 WORDS)
This plan serves as a site-specific addenda to the Accident Reporting and Safety Program dated 14 September 1995, developed by MEVATEC Corporation, for all activities conducted at White Sands Missile Range (White Sands). The Accident Reporting and Safety Program provides minimum safety standards and accident prevention fundamentals to cover a range of activities at White Sands. To supplement the information in the Accident Reporting and Safety Program, this plan describes specific activities to complete the soil and preliminary groundwater investigation at the High Energy Laser Test Facility (HELSTF) Technical Support Area (TSA) Petroleum/Oil/Lubricants (POL) Station.

14. SUBJECT TERMS
Site Specific Health and Safety Plan, HELSTF, TSA, POL Station

15. NUMBER OF PAGES
24

16. PRICE CODE

17. SECURITY CLASSIFICATION OF REPORT	18. SECURITY CLASSIFICATION OF THIS PAGE	19. SECURITY CLASSIFICATION OF ABSTRACT	20. LIMITATION OF ABSTRACT
Unclassified	Unclassified	Unclassified	

SITE SPECIFIC HEALTH AND SAFTEY PLAN
FOR THE SOIL AND PRELIMINARY GROUNDWATER INVESTIGATION
AT THE HELSTF TSA POL STATION

Submitted to:

U.S. Army
White Sands Missile Range
Environment and Safety Directorate
White Sands Missile Range, New Mexico 88002-5048

APRIL 2000

Submitted by:

MEVATEC Corporation
Building 126
White Sands Missile Range, New Mexico 88002

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LIST OF ACRONYMS

AMRAD	Anti-Missile Radar
BTEX	Benzene, Toluene, Ethylbenzene, Xylene
C	Celsius
dBA	decibels, A-weighted
DPM	Deputy Program Manager
F	Fahrenheit
HELSTF	High Energy Laser System Test Facility
LEL	Lower Explosive Limit
mg/kg	milligrams per kilogram
MTBE	Methyl tert-butly ethene
NMED	New Mexico Environment Department
OSHA	Occupational Safety and Health Administration
PID	Photo-ionization Detector
POL	Petroleum/Oil/Lubricant
QA/QC	Quality Assurance/Quality Control
ppm	parts per million
SSHSP	Site Specific Health and Safety Plan
TSA	Technical Support Area
UEL	Upper Explosive Limit
UST	Underground Storage Tank
UXO	Unexploded Ordnance
White Sands	White Sands Missile Range

REVIEWS AND APPROVALS

This plan serves as a site-specific addenda to the Accident Reporting and Safety Program dated 14 September 1995, developed by MEVATEC Corporation, for all activities conducted at White Sands Missile Range (White Sands). The Accident Reporting and Safety Program provides minimum safety standards and accident prevention fundamentals to cover a range of activities at White Sands. To supplement the information in the Accident Reporting and Safety Program, this plan describes specific activities to complete the soil and preliminary groundwater investigation at the High Energy Laser Test Facility (HELSTF) Technical Support Area (TSA) Petroleum/Oil/Lubricants (POL) Station. This Site-Specific Health and Safety Plan was approved by the following individuals:

Greg Watterson, E.I.
Principal Site Engineer
MEVATEC Corporation

4/27/00
Date

Joel Giblin
Site Health and Safety Officer
MEVATEC Corporation

4/27/00
Date

George B. Moon, P.E.
Deputy Program Manger / Principal Engineer
MEVATEC Corporation

4/27/00
Date

Fred Bourger
Deputy Program Manager / QA/QC Manager
MEVATEC Corporation

4/27/00
Date

for Nicholas Barrón, Ph.D.
Program Manager
MEVATEC Corporation

4/27/00
Date

SITE SPECIFIC HEALTH AND SAFETY PLAN
SOIL INVESTIGATION AT BUILDING 25900

1.0 INTRODUCTION

On 16 March 2000, the White Sands Environmental Compliance Division (WS-ES-EC) was notified that a release of approximately 800 gallons of unleaded gasoline had possibly occurred at the HELSTF TSA POL Station. The New Mexico Environment Department's (NMED) Groundwater Protection and Remediation Bureau was immediately notified in accordance with Section 1203 of the New Mexico Water Quality Control Commission Regulations (20 New Mexico Administrative Code 6.2). An initial site assessment was completed to determine the location and severity of the release. Based on the results of the assessment, White Sands is required to complete a soil investigation to determine the horizontal and vertical extent of contamination, and install groundwater monitoring wells (as required).

2.0 HEALTH AND SAFETY ORGANIZATION

2.1 Project Organization

The project organizational structure and key project personnel are shown on Figure 2-1. The MEVATEC personnel assigned specific health and safety responsibilities are identified below.

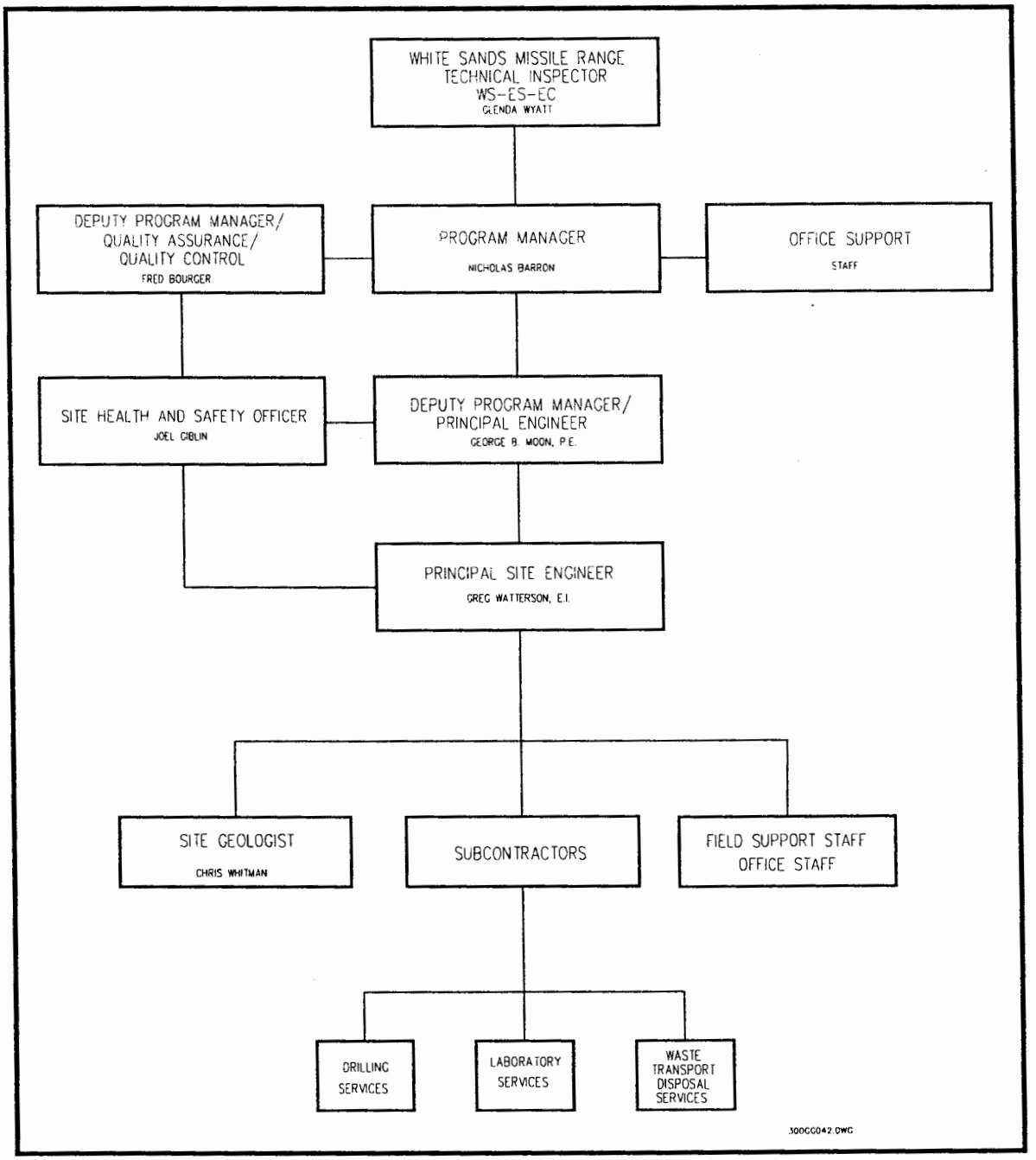

Figure 2-1. Project Personnel Organization Chart

Nicholas Barrón Program Manager MEVATEC Corporation	• Overall hazardous material program responsibility.
Fred Bourger Deputy Program Manger (DPM) / QA/QC Manager MEVATEC Corporation	• Responsible for oversight of Quality Assurance/Quality Control (QA/QC) and Health & Safety Programs
George B. Moon, P.E. DPM / Principal Engineer MEVATEC Corporation	• Responsible for all site activities.
Greg Watterson, E.I. Principal Site Engineer MEVATEC Corporation	• Responsible for assembly of the Site Specific Health and Safety Plan • Responsible for all site coordination issues during site activities. • Responsible for execution of the Site Specific Health and Safety Plan (SSHSP).
Joel Giblin Site Health & Safety Officer MEVATEC Corporation	• Responsible for project review of health and safety issues and implementation of the SSHSP.

2.2 Responsibility and Authority of Key Personnel

The responsibility and authority of key personnel relative to the implementation of this SSHSP are described below.

2.2.1 Principal Engineer

The Principal Engineer has the following responsibilities:

- Reporting to the Program Manager.
- Providing oversight of all health and safety matters.
- Reviewing and recommending approval of the SSHSP.
- Verifying that the project is performed in a manner consistent with the SSHSP.
- Approving the Site Health & Safety Officer for the project.
- Temporarily suspending field activities if the health and safety of personnel are endangered.
- Reporting all infractions of the SSHSP to the MEVATEC Program Manager.

George B. Moon, P.E. will be the Principal Engineer for this project. In his absence, the Deputy Program Manager / QA/QC Manager, Fred Bourger, will assume his responsibilities.

2.2.2 Principal Site Engineer

The Task Coordinator has the following responsibilities:

- Executing the SSHSP for the project.
- Interfacing with the Site Safety Officer and Principal Engineer in matters of health & safety.
- Directing daily site health and safety activities and reporting results to Site Health & Safety Officer.
- Monitoring compliance with the SSHSP.
- Assisting the Site Safety Officer in maintaining health and safety equipment for the project.
- Verify personnel working onsite have completed medical surveillance and health & safety training.
- Directing personnel to change work practices if they are deemed hazardous to the health and safety of the personnel.
- Removing personnel from the site if their action or condition endangers their health and safety or the health and safety of their co-workers.
- Performing and recording integrated personal air monitoring to characterize each employee's task exposure.
- Temporarily suspending field activities, if health and safety of personnel are endangered, pending further consideration by the Health and Safety Officer.

Greg Watterson, E.I. will serve as the Principal Site Engineer for this project. In his absence, the Site Geologist, Chris Whitman, will assume his responsibilities.

2.2.3 Site Health & Safety Officer

The Site Health and Safety Officer responsibilities include:

- Reporting and coordinating with the DPM / QA/QC Manager on health and safety matters.
- Performing unannounced inspections of field activities.
- Reporting safety-related incidents or accidents to the highest authority onsite person.
- Implementing the components of the SSHSP.
- Maintaining health and safety equipment onsite, as specified in the SSHSP.
- Maintaining documentation of health and safety measures taken at the site, including:
  - Communication of the SSHSP;
  - Levels of protection and required upgrades;
  - Environmental monitoring results; and
  - Incident reporting.
- Upgrading or downgrading levels of protection in response to field conditions.
- Temporarily suspending field activities, if health and safety of personnel are endangered, pending further consideration by the DPM / QA/QC Manager.
- Report all infractions of the SSHSP to the DPM / QA/QC Manager.

Joel Giblin will serve as the Site Health & Safety Officer for this project.

3.0 SITE WORK PLAN SUMMARY

3.1 Project Objective

This plan serves as site-specific addenda to the Accident Reporting and Safety Program dated 14 September 1995, developed by MEVATEC Corporation, for all activities conducted at White Sands. The Accident Reporting and Safety Program provides minimum safety standards and accident prevention fundamentals to cover a range of activities at White Sands. The components of this Site-Specific Health and Safety Plan cover site work for the completion of up to nine investigative soil borings, and the installation and sampling of one to four groundwater monitoring wells at the HELSTF TSA POL Station (Figures 3-1 and 3-2).

3.2 Project Tasks

- Drill and sample soil borings
- Install and sample groundwater monitoring well(s)
- Handling and disposal of investigation derived waste
- Site restoration

Personnel Requirements: Up to seven onsite employees

Note: All personnel on this site shall receive a copy of this site-specific health and safety plan and be aware of potential site hazards prior to entering the site, as listed in Sections 4.0 and 6.0 of this SSHSP.

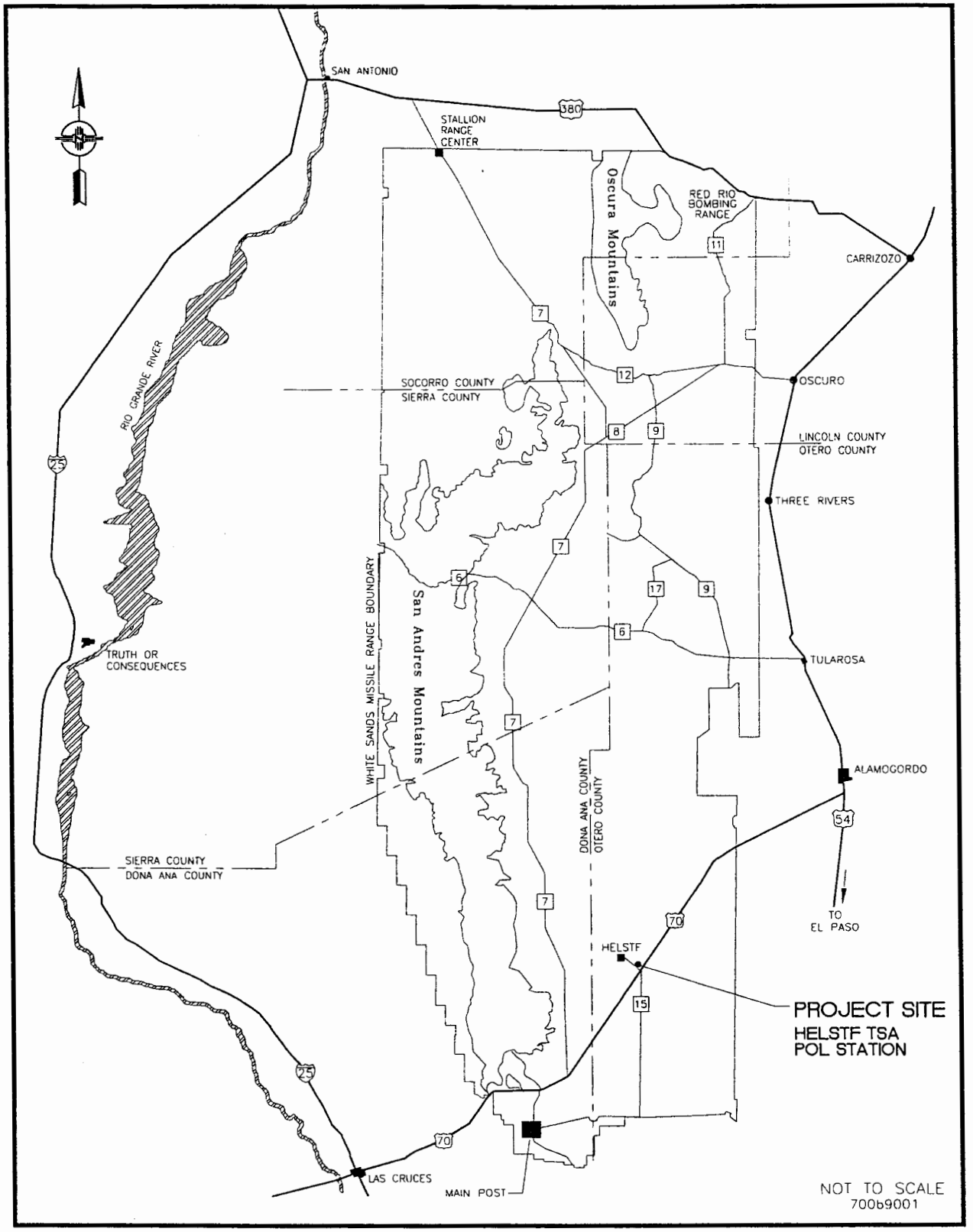

Figure 3-1. Location of the Project Site, HELSTF TSA POL Station

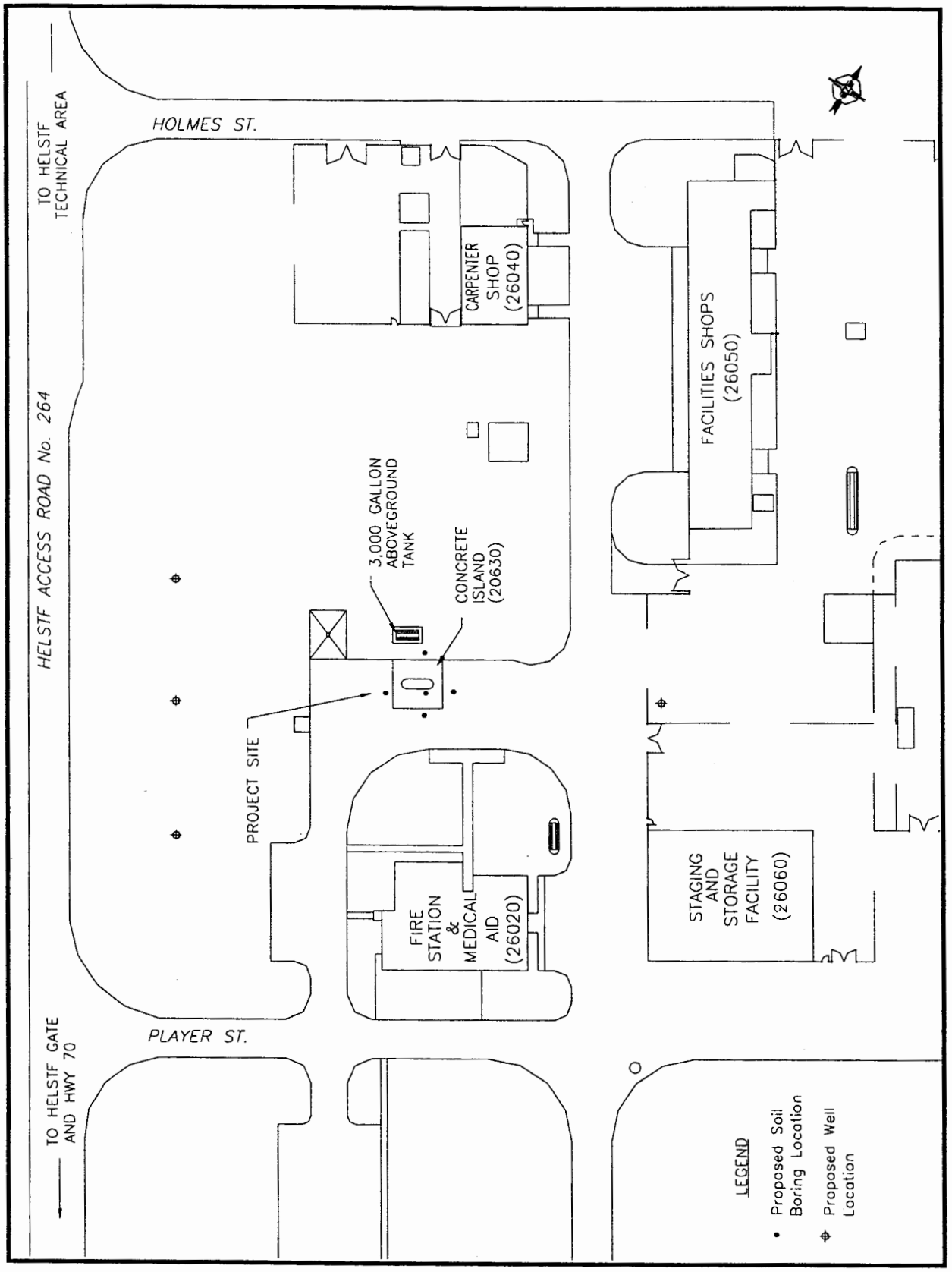

Figure 3-2. Site Map for Project Site, HELSTF TSA POL Station

4.0 SITE CHARACTERIZATION AND ANALYSIS

4.1 General Site Information

The HELSTF TSA POL Station is located approximately ¼ mile (0.4 kilometers) inside the HELSTF compound, within an improved area. Hand auger borings revealed hydrocarbon contamination in the soil at concentrations as high as 29,000 mg/kg. Additional contaminants associated with unleaded gasoline were detecting in the soil at excessive concentrations as well: Benzene (320 mg/kg), Toluene (1,800 mg/kg), Ethylbenzene (570 mg/kg), Total Xylenes (1,700 mg/kg), and Total MTBE (75 mg/kg).

White Sands is considered arid, with an average rainfall of only 10.8 inches (27.4 centimeters), mostly occurring during late summer as thunderstorms. Average summer high temperature is 92° F (33.3° C) with lows of about 65° F (18.3° C). During winter months, the average high is 57° F (13.9° C) with an average low of 36° F (2.2° C). Average annual humidity readings are about 37 percent. Regional geology is characterized primarily as fine- to medium-grained unconsolidated quartz-sands with occasional thin clay or silt stringers. Soil types encountered during the hand auger investigation (to 18 feet below ground surface) were generally gypsum sand dune with intermittent thin layers of clayey silts.

4.2 Anticipated Hazards

4.2.1 Chemical Hazards

Petroleum hydrocarbons, specifically unleaded gasoline, will be encountered in soils during drilling activities. The following section provides a hazard analysis of toxicity and exposure information for unleaded gasoline/petroleum hydrocarbons. The hazard analysis utilizes exposure and toxicity information generated by the Occupational Safety and Health Administration (OSHA), American Conference of Governmental Industrial Hygienists, the National Institute for Occupational Safety and Health, the National Toxicology Program, and International Agency for Research on Cancer and accepted industry data.

Unleaded Gasoline, BTEX, and MTBE

Route of Entry:	Inhalation, Skin Absorption, Ingestion, Eye Contact
Target Organs:	Eyes, Skin, Respiratory System, Central Nervous System, Liver, Kidneys
Hazard:	Eye, skin, and mucous membrane irritation; fatigue; blurred vision; dizziness; blurred speech; confusion; convulsions; chemical pneumonia.
First Aid:	Eye: Irrigate eyes immediately Skin: Soap and water wash immediately Breathing: Remove from vicinity to ventilated area. If persistent, seek medical attention for respiratory support to stabilize breathing Ingestion: Medical attention immediately
Chemical Properties:	Lower Explosive Limit: 1.4% Upper Explosive Limit: 7.6%

Liquid and vapor are irritating to the eyes, nose, throat, and skin. Repeated skin contact may produce a dry, scaly, and fissured dermatitis. Acute exposure to high concentrations may produce irritation of the mucous membranes of the upper respiratory tract, nose, and mouth, followed by symptoms of narcosis, cramps and death due to respiratory center paralysis.

4.2.2 Physical Hazards

Drilling activities include possible physical hazards which could result in cuts or punctures from sharp objects, falls from uneven terrain, steep grades or slippery surfaces, sprains and strains from lifting activities, noise, and detonation of unexploded ordnance (UXO). Personnel should be aware that as the level of personal protective equipment increases, dexterity and visibility may be impacted and performing some tasks may be more difficult.

Rotary drilling and other heavy equipment operations present inherent safety hazards. Employee experience in the use of such equipment and awareness to potential hazards will reduce risk. All equipment operations must be in accordance with guidelines set forth in applicable OSHA regulations.

The Accident Prevention Plan provided in Section 6.0 contains specific practices used to reduce or eliminate anticipated physical hazards (listed below) which may be present and encountered during the site operations. Below each indicated hazard is a list of operations and/or tasks that may involve the indicated hazard. An "X" indicates specific actions that will be taken to control the respective hazards. These control measures may include work practice controls, engineering controls, and/or use of appropriate personal protective equipment.

- Hazards Associated with Potential Exposure to Hazardous Chemicals or Materials
- Fire Hazards Associated with Handling or Working Near Flammable or Combustible Materials
- Slip, Trip, Fall Hazards
- Hazards Associated with Elevated Work
- Hazards Associated with Operation of Heavy Equipment
- Hazards Associated with Working in Hot Environments
- Hazards Associated with Working in Cold Environments
- Hazards Associated with Insects, Snakes, or Wild Animals
- Hazards Associated with Falling Objects
- Hazards Associated with Electricity
- Hazards Associated with Materials Handling
- Hazards Associated with Limited Communication Due to Location, Distance, or Noise
- Hazards Associated with Noise
- Hazards Associated with Underground or Overhead Utilities
- Hazards Associated with Unauthorized Personnel Onsite, and in Controlled Work Zones
- Hazards Associated with Excessive Traffic Through or Near the Work site
- Hazards Associated with Unexploded Ordnance

4.2.3 Unexploded Ordnance

Although the potential is low, there is the potential that UXO or explosive materials may be present at the work area. However, this does not eliminate the potential for the presence or absence of potential subsurface UXO. All field personnel are required to review the UXO Orientation video and sign the orientation sheet prior to the start of field activities. Additionally, all field personnel will receive a temporary Visitors Badge that must be kept on hand at all times. The badge will indicate that the bearer of the badge has received proper UXO training. Finally, all field personnel will be verbally briefed daily regarding procedures to follow if ordnance is discovered.

4.2.4 Noise

Noise may be generated during site activities. As a precautionary measure, hearing protection, either ear muffs or ear plugs, are mandatory while working adjacent to the drill rig. A noise meter will be onsite to monitor noise conditions (see Section 5.0).

4.2.5 Electrical Hazards

Electrical shock can occur by direct contact with live wires or with electrical equipment and instruments that are wet or have faulty wiring. Any extension cords used with the equipment should be checked for cuts or loose connections in the coating protecting the wires prior to use. All extension cords will also be connected to ground-fault circuit interrupters. Use of properly grounded and/or double insulated tools will also reduce the potential for electric shock. Due to the release of unleaded gasoline at the site, a potential exists for electrical induced explosion. The site will be monitored by a combustible gas meter to minimize the potential for explosion (see Section 5.0).

4.2.6 Underground Utility Lines

Underground utility lines present in the area were located to prevent accidental puncture or breakage. All contacts regarding the location of buried line with HELSTF personnel are documented. In the event of an unmarked buried utility line is damaged, work operations shall halt immediately and all fieldwork shall be stopped until the nature of the line is discovered and any required repairs completed. A copy of the signed utility clearance documentation will be on-hand at the site.

4.2.7 Biological Hazards

The field team should be aware that site activities may disturb the local wildlife population. Therefore, there is potential for field personnel to be bitten by snakes, animals, and insects. Prompt first aid measures are extremely important. All field team members should be properly briefed regarding the potential for encountering wildlife, as well as prompt first aid procedures in the event of a snake, insect, or animal bite.

Normally, the noise created by a person approaching a snake is sufficient to frighten snakes away. However, extreme caution is necessary when exploring areas where snakes might be found, such as behind rocks, under bushes, or in holes, crevices, and abandoned pipes. The rules to follow if bitten by a snake are:

- Do no cut the bite area, since it will exacerbate the effect of the venom;
- Do not apply suction to the wound, since this is minimally effective in removing venom;
- Do not apply a tourniquet since venom is most dangerous when concentrated in a small area;
- Do not allow the victim to run for help, since this accelerates circulation;
- Do seek immediate medical attention;
- Do keep the victim calm and immobile; and
- Do have the victim hold the affected extremity lower than the body while waiting for medical assistance.

4.2.8 Heat Stress

Elevated temperatures may be a concern at this site. Heat stress monitoring and prevention procedures will be initiated. Heat stress reduction procedures shall consist of the following:

- Field personnel will be encouraged to drink fluids (chilled, potable water) frequently.
- When temperatures exceed 90 degrees Fahrenheit, all field personnel working outdoors will measure their heart rates no less than hourly. If the heart rate exceeds 110 beats per minute, the individual will rest for 10 minutes, drinking fluids throughout the rest period. If the heart rate has dropped below 110 beats per minute at the end of the rest period, the individual may return to work. If the heart rate exceeds 110 beats per minute, contact the onsite health and safety officer.
- Any personnel displaying signs or symptoms of heat stress will stop work and rest for at least 15 minutes. If symptoms persist beyond this rest period, the onsite health and safety officer will be contacted. Personnel displaying symptoms of heat stroke should immediately be taken to the nearest medical facility.

Symptoms of heat exhaustion included dizziness, light-headedness, nausea, slurred speech, fatigue, copious perspiration, cool clammy skin, and an increased resting heart rate. Symptoms of heat stroke included delirium, fainting, and hot, dry, flushed skin. Heat stroke is a life threatening condition, and immediate medical attention is required if any symptoms of heat stroke are observed.

4.3 Personal Protection for Site Work

Prior to entering the area of activity, all personnel will be required to read and sign the Compliance Agreement (Section 7.0) to verify compliance with the provisions of this SSHSP and sign the daily Health and Safety Briefing Compliance Agreement (Section 8.0). The level of protection expected for this site work will Level D; gloves (leather and/or latex), hard-hat, steel-toed boots, and safety glasses. Visitors are expected to comply with relevant OSHA regulations

and provide their own protective equipment. Continuous monitoring will be conducted to verify the safety of all site personnel.

4.4 Emergency Contact Numbers

Table 4-1 provides name and telephone numbers for emergency contact personnel. In the event of a medical emergency, personnel will take direction from the onsite senior responsible individual and notify the appropriate emergency organization. In the event of a fire or spill, the onsite senior responsible individual will notify the appropriate White Sands Fire Department followed by the Emergency Operations Center. In the case of a spill of hazardous materials, the White Sands Missile Range representative will be responsible for notification of the appropriate local, state, and federal agencies.

Medical emergencies that occur will be taken to the HELSTF Medical Aid Station (Building 26020), as shown on Figure 4-1. From the project site, walk south approximately 75 yards (69 m) to eastern entrance to Building 26020. If additional medical attention is required, the injured individual will be transported via ambulance to the appropriate medical facility.

4.5 Smoking

Smoking within 50 feet of the drill rig is prohibited. **A smoking area will be located greater than 50 feet from the drill rig. All cigarette butts will be placed in a bucket filled with sand, which will be located at the smoking area.**

Table 4-1. Emergency Contact Telephone Numbers
(Fire and medical emergency numbers are bolded)

Organization	Contact	Telephone*
Fire Station #2 (Nike Avenue at LC-38)		**Land Line on WSMR: 117** **Land Line/Cell Phone: 678-9128** **Off Range: 911**
Fire Station #1 (Main Post)		**Land Line on WSMR: 117** **Land Line/Cell Phone: 678-1234** **Off Range: 911**
HELSTF Ambulance Service/Medical Aid Station (Building 26020)		**Land Line/Cell Phone: 679- 5164 or 679-5167** **Off Range: 911**
Post Clinic Emergency Room (Building 530)		**Land Line/Cell Phone: 678-2882**
Memorial Medical Center Emergency Room (Las Cruces, NM)		**Land Line/Cell Phone: 521-2286 or 911**
Police		Land Line on WSMR: 118 Land Line/Cell Phone: 678-1234 Off Range: 911
Emergency Operations Center After Hours – Staff Duty Officer		678-3803
White Sands Missile Range Environment and Safety Directorate		678-2224
WS-ES-EC Technical Inspector (desk)	Glenda Wyatt	678-8615
MEVATEC Corp. Office, Building 126, White Sands, NM, Front Desk	Stephanie Gamboa	678-0263
Site Safety and Health Representative	Joel Giblin	678-0910 521-8473 (H)
MEVATEC Corp. Principal Site Engineer	Greg Watterson, E.I.	678-1941 521-4891 (H)
MEVATEC Corp. Deputy Program Manager / Principal Engineer	George Moon, P.E.	678-0141 523-1854 (H)
MEVATEC Corporation, Deputy Program Manager / QA/QC Manager	Fred Bourger	678-3426 524-8033 (H)
MEVATEC Corporation, Program Manager	Nicholas Barrón, Ph.D.	678-7907 382-7655 (H)
NMED Groundwater Bureau (Project Regulatory Agency)	Julie Jacobs	(505) 827-2776

* - all phones numbers are within the 505 area code.

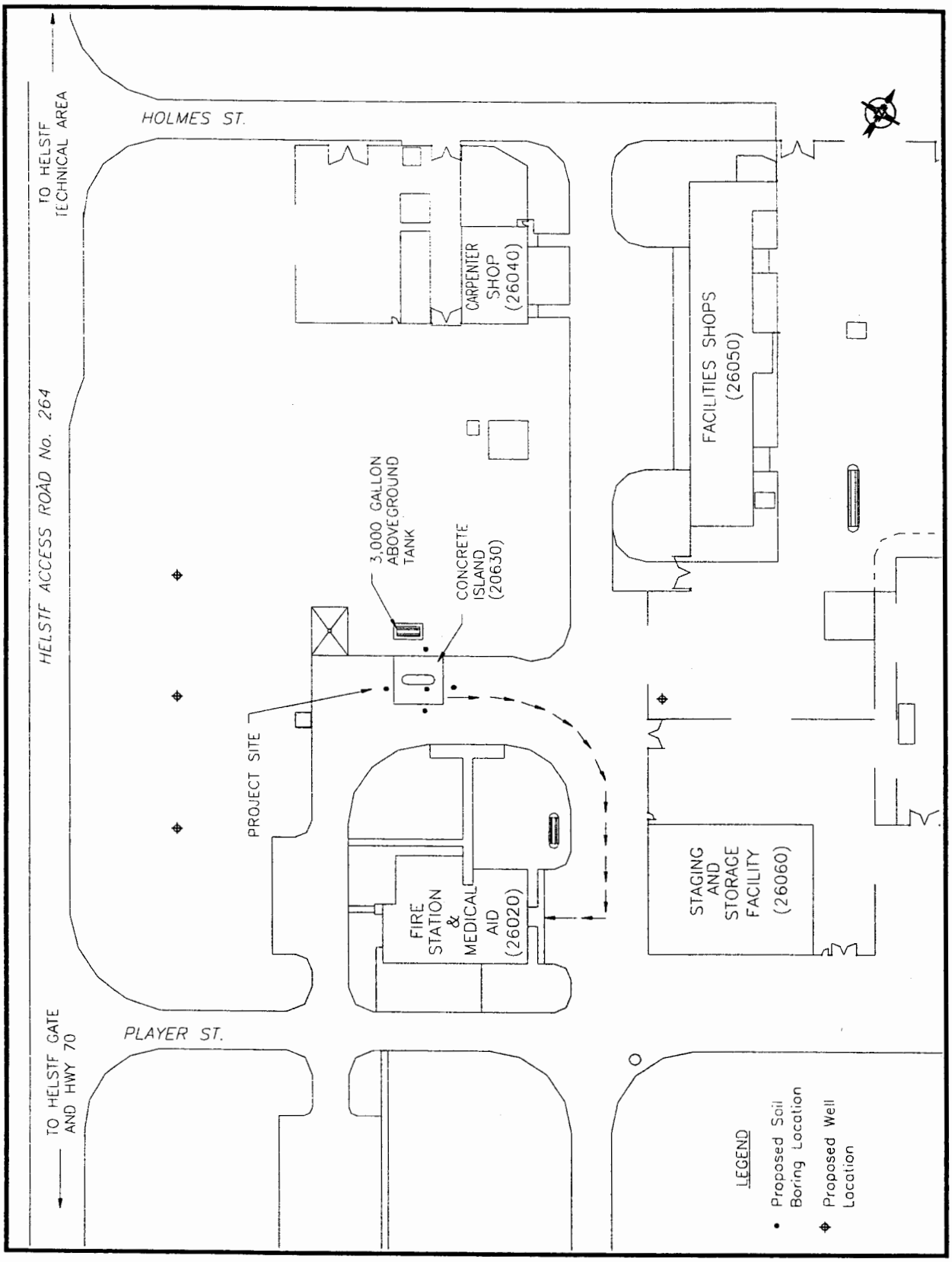

Figure 4-1. Emergency Route to Medical Facility from the Project Site

5.0 SITE MONITORING

Hazardous materials may be encountered during drilling or monitor well installation. Site monitoring will be conducted to verify the safety of workers. Table 5-1 describes the site monitoring to be conducted.

Table 5-1. Site Monitoring Summary

Chemical/ Physical Agent	Action Level	Monitoring Equipment	Sampling and Analysis	Frequency of Analysis
Volatile Organic Compounds	20 ppm[a] in the breathing zone	PID	Direct Reading	During drilling within the contaminated zone
Explosive Conditions	LEL: 1.4% UEL: 7.6%	Combustible Gas Meter	Direct Reading	During drilling within the contaminated zone
Noise Levels	85 dBA[b]	Sound Level Meter	Direct Reading	During all drilling activities

Notes a: ppm – parts per million
B: dBA – decibels, A-weighted

In the event that the action level is exceeded for volatile organic compounds or explosive conditions, the area will be immediately evacuated and the contaminant allowed to dissipate. MEVATEC will contact the WS-ES-EC Technical Inspector prior to commencing with work. Following instructions from WS-ES-EC, the field crews will don the appropriate clothing, respirator, and retest the site conditions. If levels continue, the MEVATEC Health and Safety representative will contact the WS-ES-EC Technical Inspector for further instructions. In the case of noise, exceedance of the action level will trigger the use of hearing protection.

6.0 ACCIDENT PREVENTION PLAN

Hazards Associated with Potential Exposure to Hazardous Chemicals or Materials:

- Drill and sample soil borings
- Install and sample groundwater monitoring well(s)
- Handling and disposal of investigation derived waste
- Site restoration

Actions to be Taken to Control Hazards:

_X_ Minimize free liquids to reduce airborne vapor concentrations.
_X_ Tops shall be securely attached to chemical containers when not in use to minimize airborne vapor concentrations.
____ Utilize wet methods to control airborne dusts emissions.
_X_ Delineate and control access into the Exclusion Zone(s) and Contamination Reduction Zone(s).
____ Utilize Chemical Protective Clothing and Equipment
____ Decontaminate or remove outer protective clothing in the Contamination Reduction Zone, prior to entering the Support Zone from the Exclusion Zone.
_X_ Decontaminate all equipment leaving the Exclusion Zone in the Contamination Reduction Zone, prior to entering the Support Zone.
_X_ Wash hands and face prior to drinking/smoking breaks.
____ Personnel working in the Exclusion Zone will be required to shower out at the end of the workday, prior to leaving the work site to go home.

Fire Hazards Associated with Handling or Working near Flammable or Combustible Materials:

Operations and/or Tasks Associated with the Above-Referenced Hazards:

- Drill and sample soil borings
- Install and sample groundwater monitoring well(s)
- Handling and disposal of investigation derived waste
- Site restoration

Actions to be Taken to Control Hazards:

_X_ Monitor work environment as necessary with a combustible gas meter to determine the percent LEL concentration of combustible gases and vapors.
_X_ Should concentrations exceed the LEL (see Section 5.0) in a work area, operations within the area will cease immediately, and all potential sources of ignition removed from the area.

____ All "Hot Work" performed in hazardous locations shall require the issuance of a Hot Work Permit issued by White Sands Missile Range safety office. Combustible or flammable materials shall be purged of combustible gasses and vapors (less than 10 percent LEL) prior to being cut.
_X_ Smoking shall not be permitted onsite, except in designated areas.
_X_ All containers of flammable or combustible materials must be properly labeled to indicate its contents and appropriate fire hazard.

Slip, Trip, Fall Hazards:

Operations and/or Tasks Associated with the Above-Referenced Hazards:

- Drill and sample soil borings
- Install and sample groundwater monitoring well(s)
- Handling and disposal of investigation derived waste
- Site restoration

Actions to be Taken to Control Hazards:

_X_ Workers shall ensure that walking/working surfaces are kept free of potential slip, trip, fall hazards.
_X_ Whenever possible, avoid routing cords, ropes, hoses, etc. across isles and walking paths.
_X_ Flag and/or cover inconspicuous holes to protect against accidental trips and falls.
____ Delineate and/or guard open excavations to protect against falls.

Hazards Associated with Operations of Heavy Equipment or Motor Vehicles

Operations and/or Tasks Associated with the Above-Referenced Hazards:

- Drill and sample soil borings
- Install and sample groundwater monitoring well(s)
- Handling and disposal of investigation derived waste
- Site restoration

Actions to be Taken to Control Hazards:

_X_ Personnel operating heavy equipment or vehicles shall maintain a constant awareness of personnel and stationary objects in the areas adjacent to its operation.
_X_ Spotters shall be utilized to assist operators in manipulating vehicles and equipment into tight or confined areas.
_X_ Equipment operators shall inspect their equipment prior to and during each use, to ensure it is working properly, and that all safety devices are functioning as they should.
_X_ Ensure operators are adequately trained and/or licensed as necessary to operate their equipment or motor vehicles.
_X_ All moving heavy equipment must have properly functioning backup alarms.

_X_ Motor vehicle operators are responsible for conducting a pre-trip vehicle safety inspection prior to its use. No motor vehicle with any known mechanical defect which endangers the safety of the driver or passengers shall be used.

Hazards Associated with Working in Hot Environments

Operations and/or Tasks Associated with the Above-Referenced Hazards:

- Drill and sample soil borings
- Install and sample groundwater monitoring well(s)
- Handling and disposal of investigation derived waste
- Site restoration

Actions to be taken to control heat stress:

_X_ Drink plenty of fluids, preferably water before, during and after each activity
____ Acclimate to site conditions by slowly increasing work loads
_X_ Use cooling devices to aid natural body ventilation
____ Conduct field activities in early morning or evening
____ Use shelter to protect against heat stress
____ Rotate shifts of workers

Hazards Associated with Working in Cold Environments

Operations and/or Tasks Associated with the Above-Referenced Hazards:

- Drill and sample soil borings
- Install and sample groundwater monitoring well(s)
- Handling and disposal of investigation derived waste
- Site restoration

Actions to be Taken to Control Hazards:
_X_ Adequate protective clothing shall be worn at all times
____ Provide shelter from wind and cold temperatures
____ Do not remove chemical-protective equipment unless sheltered from wind and cold temperatures.
____ Field activities shall be curtailed if equivalent chill temperature is below zero degrees F.

Hazards Associated with Insects, Snakes, or Wild Animals

Operations and/or Tasks Associated with the Above-Referenced Hazards:

- Drill and sample soil borings
- Install and sample groundwater monitoring well(s)
- Handling and disposal of investigation derived waste
- Site restoration

Actions to be Taken to Control Hazards:

_X_ Ensure that personnel are aware of such hazards, and encourage them to be constantly on the lookout.
____ Maintain a supply of insecticide sprays to be used as necessary to kill flying or crawling insects.
____ Utilize heavy equipment to clear areas where high grass and brush have grown, prior to accessing these areas on foot.

Hazards Associated with Falling Objects

Operations and/or Tasks Associated with the Above-Referenced Hazards

- Drill and sample soil borings
- Install and sample groundwater monitoring well(s)

Actions to be Taken to Control Hazards:

_X_ Require that hard hats be worn at all times by onsite personnel except in break areas.
_X_ Whenever possible, personnel will avoid walking or working beneath areas where overhead work is being performed.
____ All overhead work platforms will be equipped with standard toe board to reduce the potential of objects falling from them.

Hazards Associated with Electricity

Operations and/or Tasks Associated with the Above-Referenced Hazards:

- Drill and sample soil borings
- Install and sample groundwater monitoring well(s)
- Handling and disposal of investigation derived waste
- Site restoration

_X_ Ground Fault Circuit Interrupters (GFCIs) shall be used whenever possible, to protect workers from shock or electrocution while working with electrical equipment.
_X_ Repair or remove from service all damaged electric cords.
_X_ Route extension cords in a manner and/or location that would prevent potential damage to the cord.
_X_ All electrically powered hand tools shall be of the grounded or double-insulated type.
_X_ Obtain proper utility clearances prior to the start of field activities.

Hazards Associated with Materials Handling

Operations and/or Tasks Associated with the Above-Referenced Hazards:

- Drill and sample soil borings
- Install and sample groundwater monitoring well(s)
- Handling and disposal of investigation derived waste
- Site restoration

Actions to be Taken to Control Hazards:

_X_ Mechanical equipment (i.e., dolly, hoist, fork lift) shall be utilized whenever possible to minimize manual labor.

_X_ Size up the job before lifting and get help if needed. The maximum weight to be manually lifted by MEVATEC and/or subcontractor personnel is 60 pounds (27.2 kilograms).

_X_ Personnel will be reminded during daily safety meeting to utilize proper lifting methods to avoid muscle or back strains.

Hazards Associated with Limited Communication Due to Location, Distance, or Noise

Operations and/or Tasks Associated with the Above-Referenced Hazards:

- Drill and sample soil borings
- Install and sample groundwater monitoring well(s)
- Handling and disposal of investigation derived waste
- Site restoration

Actions to be Taken to Control Hazards:

_X_ Where direct verbal communication is limited, portable 2-way radios, and/or hand signals shall be utilized to facilitate communication among workers.

_X_ Where work sites are in remote locations without access to nearby existing telephones, a cellular telephone (if service is available) or two-way radios shall be maintained onsite for use in the event of an emergency.

Hazards Associated with Noise

Operations and/or Tasks Associated with the Above-Referenced Hazards:

- Drill and sample soil borings
- Install and sample groundwater monitoring well(s)
- Handling and disposal of investigation derived waste
- Site restoration

_X_ Appropriate hearing protection shall be provided to and worn by personnel working in areas where noise levels are known or suspected to exceed 85 dBA (See Section 5.0).
_X_ Inspect noise control devices (i.e., mufflers) on equipment to ensure they are working properly.
_X_ Periodically inspect pressurized systems (i.e., compressed air or steam) for leaks which create potential noise hazards, and if any are found, repair as soon as possible.
_X_ Whenever possible, start noise equipment in a remote area to reduce the potential for personnel exposure to noise, and to facilitate verbal communication among personnel.

Hazards Associated with Underground or Overhead Utilities

Operations and/or Tasks Associated with the Above-Referenced Hazards:

- Drill and sample soil borings
- Install and sample groundwater monitoring well(s)

Actions to be Taken to Control Hazards:

_X_ White Sands Missile Range National Range Support shall be contacted to establish the location of underground utilities and communication lines through the area of anticipated excavation.
_X_ When excavating with heavy equipment near underground utilities, personnel on the ground will assist in probing to find the exact location of lines, and will use hand shovels to carefully remove the soil immediately adjacent to the lines.
_X_ When operating machinery near overhead electrical distribution and transmission lines, refer to 29 CFR 1926.550 (a)(15)(I)-(vii) for minimum clearances, and safe work practices.

Hazards Associated with Unauthorized Personnel Onsite and in Controlled Work Zones

Operations and/or Tasks Associated with the Above-Referenced Hazards:

- Drill and sample soil borings
- Install and sample groundwater monitoring well(s)
- Handling and disposal of investigation derived waste
- Site restoration

Actions to be Taken to Control Hazards:

_X_ Install temporary fencing, traffic cones, or other appropriate barriers to delineate the work site, and to deter unauthorized personnel from entering the work site. If necessary, post security guards at each point of access into the work site.
_X_ Maintain a visitors sign in/out log.
____ Post warning signs "Authorized Personnel Only" at all entrances to the work site.
_X_ Utilize badge identification system.
_X_ Delineate controlled work zones with temporary fencing and/or caution tape.
____ Post hazard warning sign at the entrances into controlled work zones.
____ Utilize security guards to provide site security during off-hours.
_X_ Prior to entry into contaminated zone, ensure that all personnel have a current 40-hour OSHA HAZWOPER certification card or appropriate identification.

Hazards Associated with Traffic Through or Near the Work Site

Operations and/or Tasks Associated with the Above-Referenced Hazards:

- Drill and sample soil borings
- Install and sample groundwater monitoring well(s)
- Handling and disposal of investigation derived waste
- Site restoration

Actions to be Taken to Control Hazards:

____ Personnel working in areas where traffic hazards exist shall wear brightly colored orange traffic vest.
____ Flagmen will be utilized as necessary to direct traffic through or around the work site.
_X_ Barricades and traffic cones and signs shall be utilized as necessary to aid in directing traffic through or around the work site.

Hazards Associated with Unexploded Ordnance

Operations and/or Tasks Associated with the Above-Referenced Hazards:

- Drill and sample soil borings
- Install and sample groundwater monitoring well(s)
- Handling and disposal of investigation derived waste
- Site restoration

_X_ All field personnel will review the UXO Orientation Video prior to field activities.
_X_ All field personnel will be required to sign the UXO Orientation sheet following review of orientation video.
_X_ All field personnel will receive a UXO Range Hazards Card and will be required to keep the card on-hand at all times.
_X_ If UXO is identified, all field personnel will be verbally notified to follow directions listed on UXO Range Hazards Card.

7.0 COMPLIANCE AGREEMENT

This SSHSP applies to all MEVATEC personnel and their contractors performing the aforementioned field activities at the HELSTF TSA POL Station. I have read this SSHSP and hereby agree to abide by its provisions and to aid the Site Safety Officer and his representative in its implementation. I understand that it is in my best interest to see that sight operations are conducted in the safest manner possible; therefore, I will be alert to site health and safety conditions at all times.

Name	Date
Name	Date
Name	Date
Name	Date
Name	Date
Name	Date
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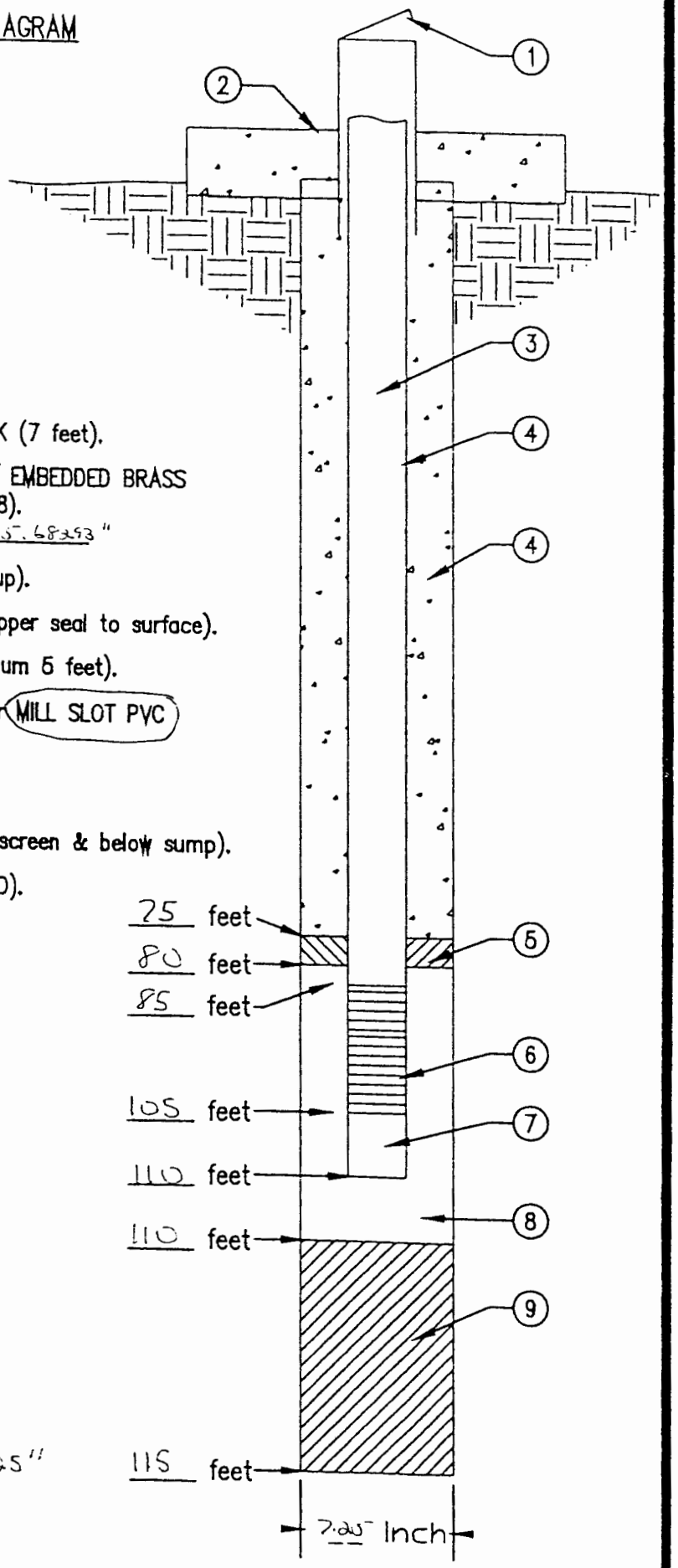
Name	Date
Name	Date
Name	Date
Name	Date
Name	Date
Name	Date
Name	Date

APPENDIX F

WELL CONSTRUCTION LOGS

FIGURE 1 – MONITORING WELL CONSTRUCTION DIAGRAM

WELL NUMBER: TBD Hmw-48
WELL NAME: TBD Hmw-48
GEOLOGIST: Kyle Williams
DATE STARTED: 5/1/00
DATE COMPLETED: 5/4/00



KEYED NOTES:

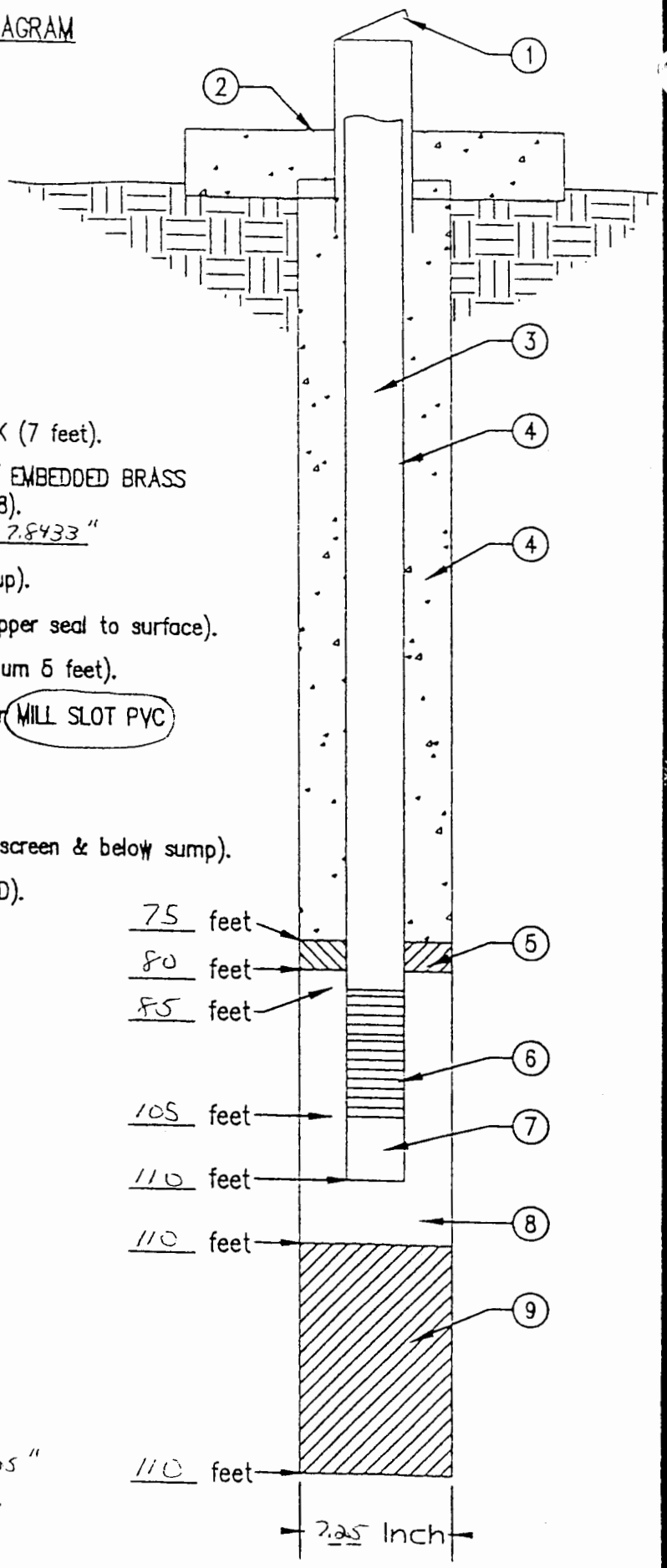
1. PROTECTIVE STEEL OUTER SURFACE CASING W/LOCK (7 feet).
2. CONCRETE PAD (36 inch X 36 inch X 24 inch) W/ EMBEDDED BRASS MARKER, ELEVATION 3960.07 feet (NAVD 1988).
   LAT. 32° 37' 4.43" LONG. 106° 18' 5.68293"
3. UPPER CASING: 4 Inch SCH. 40 PVC (3 feet stickup).
4. BACKFILL: CEMENT/5% BENTONITE SLURRY (from upper seal to surface).
5. UPPER SEAL: HYDRATED BENTONITE CHIPS (minimum 5 feet).
6. SCREEN: 4 inch I.D., SCH. 40, 0.010 WIRE WRAP or MILL SLOT PVC 20 feet IN LENGTH.
7. SUMP: 4 inch SCH. 40 PVC (5 feet).
8. FILTER PACK: CLEAN SILICA SAND (5 feet above screen & below sump).
9. LOWER SEAL: BENTONITE CHIPS (base of filter to TD).

GENERAL NOTES:

1. TOTAL TEST HOLE DEPTH: 115 feet.
2. TEST HOLE DIAMETER: ~~(min 5" / max 10")~~. 7.25"
3. ALL DEPTHS MEASURED FROM GROUND SURFACE.
4. DRAWING NOT TO SCALE.

FIGURE 1 - MONITORING WELL CONSTRUCTION DIAGRAM

WELL NUMBER: TBD Hmw-71
WELL NAME: TBD Hmw-49
GEOLOGIST: Kyle Williams
DATE STARTED: 5/5/00
DATE COMPLETED: 5/9/100



KEYED NOTES:

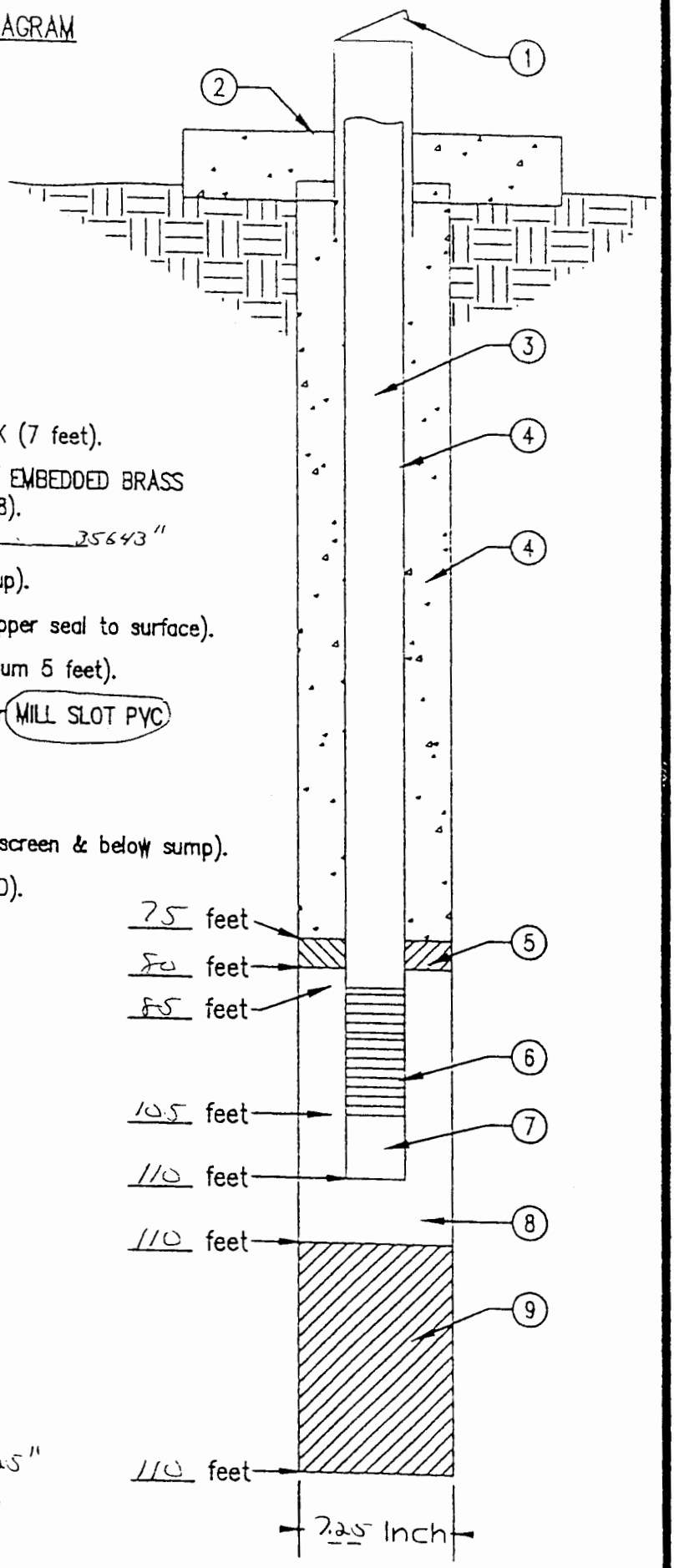
1. PROTECTIVE STEEL OUTER SURFACE CASING W/LOCK (7 feet).
2. CONCRETE PAD (36 inch X 36 inch X 24 inch) W/ EMBEDDED BRASS MARKER, ELEVATION 3960.77 feet (NAVD 1988).
   LAT. 32° 37' 2.54" LONG. 106° 18' 7.8433"
3. UPPER CASING: 4 inch SCH. 40 PVC (3 feet stickup).
4. BACKFILL: CEMENT/5% BENTONITE SLURRY (from upper seal to surface).
5. UPPER SEAL: HYDRATED BENTONITE CHIPS (minimum 5 feet).
6. SCREEN: 4 inch I.D., SCH. 40, 0.010 WIRE WRAP or MILL SLOT PVC 20 feet IN LENGTH.
7. SUMP: 4 inch SCH. 40 PVC (5 feet).
8. FILTER PACK: CLEAN SILICA SAND (5 feet above screen & below sump).
9. LOWER SEAL: BENTONITE CHIPS (base of filter to TD).

GENERAL NOTES:

1. TOTAL TEST HOLE DEPTH: 110 feet.
2. TEST HOLE DIAMETER: ~~(min 6" / max 10")~~. 7.25"
3. ALL DEPTHS MEASURED FROM GROUND SURFACE.
4. DRAWING NOT TO SCALE.

FIGURE 1 – MONITORING WELL CONSTRUCTION DIAGRAM

WELL NUMBER: TBD Hm [illegible]
WELL NAME: TBD Hm [illegible]-50
GEOLOGIST: Kyle Williams
DATE STARTED: 5/8/00
DATE COMPLETED: 5/9/00



KEYED NOTES:

1. PROTECTIVE STEEL OUTER SURFACE CASING W/LOCK (7 feet).
2. CONCRETE PAD (36 inch X 36 inch X 24 inch) W/ EMBEDDED BRASS MARKER, ELEVATION 3960.13 feet (NAVD 1988).
   LAT. 32° 37' 1.24" LONG. 106° 18' .35643"
3. UPPER CASING: 4 inch SCH. 40 PVC (3 feet stickup).
4. BACKFILL: CEMENT/5% BENTONITE SLURRY (from upper seal to surface).
5. UPPER SEAL: HYDRATED BENTONITE CHIPS (minimum 5 feet).
6. SCREEN: 4 inch I.D., SCH. 40, 0.010 WIRE WRAP or MILL SLOT PVC 20 feet IN LENGTH.

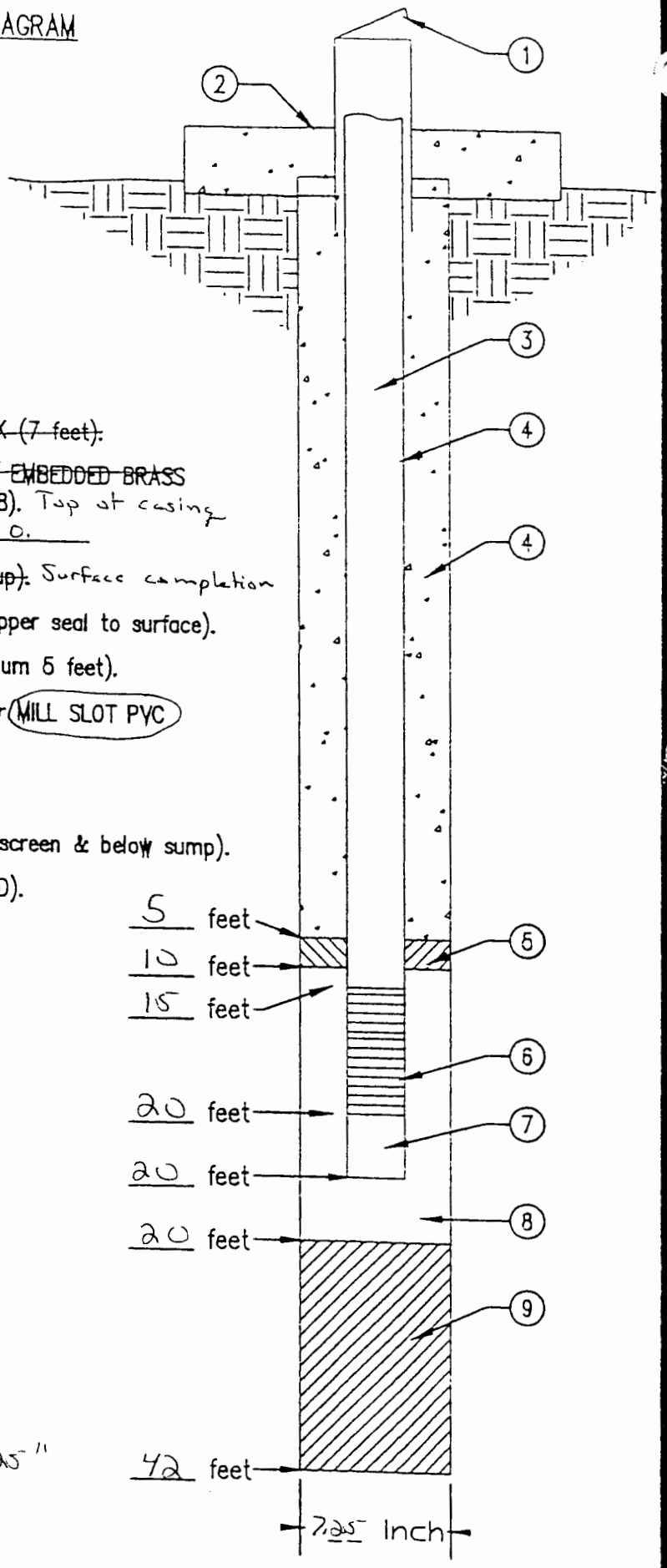
   SUMP: 4 inch SCH. 40 PVC (5 feet).
8. FILTER PACK: CLEAN SILICA SAND (5 feet above screen & below sump).
9. LOWER SEAL: BENTONITE CHIPS (base of filter to TD).

GENERAL NOTES:

1. TOTAL TEST HOLE DEPTH: 110 feet.
   TEST HOLE DIAMETER: ~~(min 5" / max 10")~~. 7.25"
3. ALL DEPTHS MEASURED FROM GROUND SURFACE.
4. DRAWING NOT TO SCALE.

FIGURE 1 – MONITORING WELL CONSTRUCTION DIAGRAM

WELL NUMBER: TBD
WELL NAME: TBD HVW-01
GEOLOGIST: Kyle Williams
DATE STARTED: 5/2/00
DATE COMPLETED: 5/3/00



KEYED NOTES:

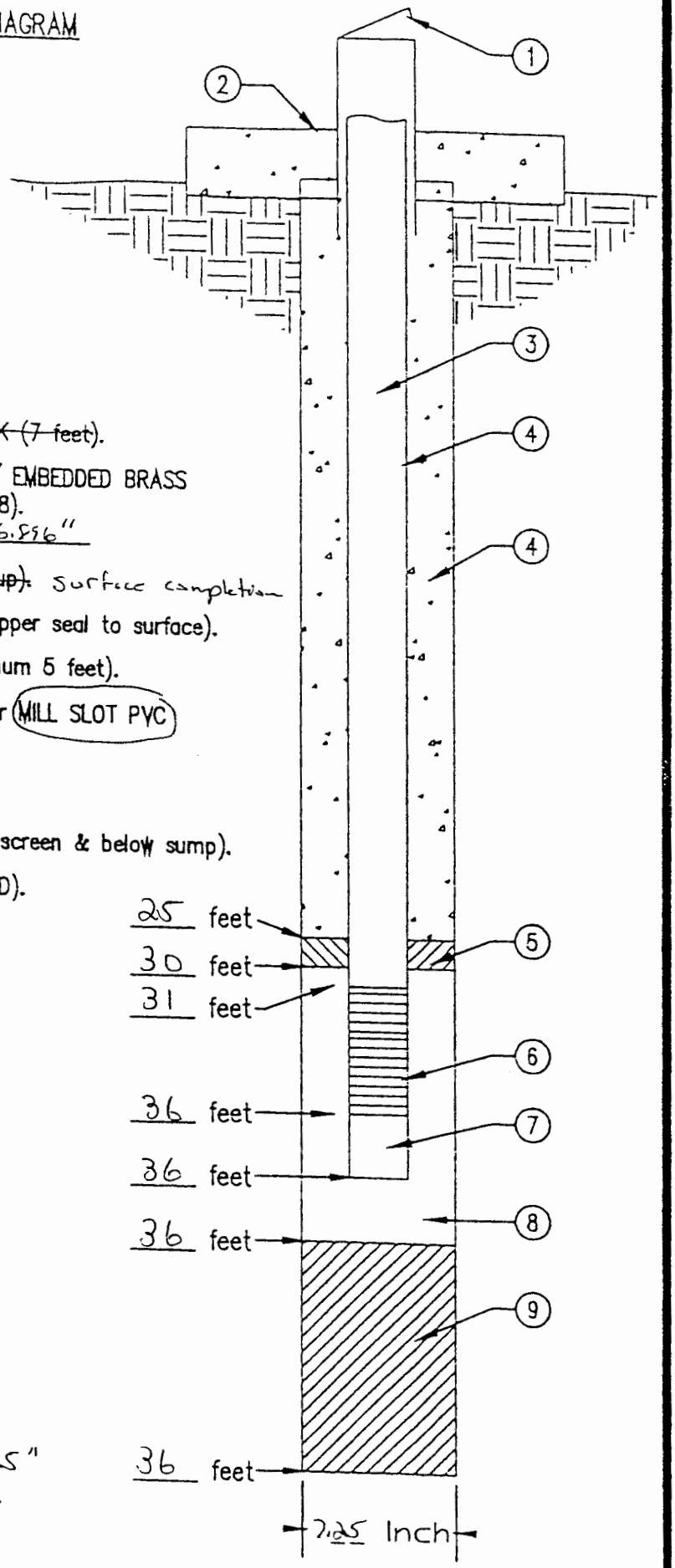
1. ~~PROTECTIVE STEEL OUTER SURFACE CASING W/LOCK (7 feet).~~ Surface completion
2. CONCRETE PAD (~~36~~ 12 inch X ~~36~~ 12 inch X ~~24~~ 6 inch) ~~W/ EMBEDDED BRASS MARKER,~~ ELEVATION 3960.65 feet (NAVD 1988). Top of casing
   LAT. 32° 37' 3.25" LONG. 106° 18' 0.
3. ~~UPPER CASING: 4 inch SCH. 40 PVC (3 feet stickup).~~ Surface completion
4. BACKFILL: CEMENT/5% BENTONITE SLURRY (from upper seal to surface).
5. UPPER SEAL: HYDRATED BENTONITE CHIPS (minimum 5 feet).
6. SCREEN: 4 inch I.D., SCH. 40, 0.010 WIRE WRAP or MILL SLOT PVC
   5 ~~20~~ feet IN LENGTH.
7. ~~SUMP: 4 inch SCH. 40 PVC (5 feet).~~
8. FILTER PACK: CLEAN SILICA SAND (5 feet above screen & below sump).
9. LOWER SEAL: BENTONITE CHIPS (base of filter to TD).

GENERAL NOTES:

1. TOTAL TEST HOLE DEPTH: 42 feet.
2. TEST HOLE DIAMETER: ~~(min 6" / max 10").~~ 7.25"
3. ALL DEPTHS MEASURED FROM GROUND SURFACE.
4. DRAWING NOT TO SCALE.

FIGURE 1 – MONITORING WELL CONSTRUCTION DIAGRAM

WELL NUMBER: TBD HUW-02
WELL NAME: TBD HUW-02
GEOLOGIST: Kyle Williams
DATE STARTED: 5/4/00
DATE COMPLETED: 5/4/00



KEYED NOTES:

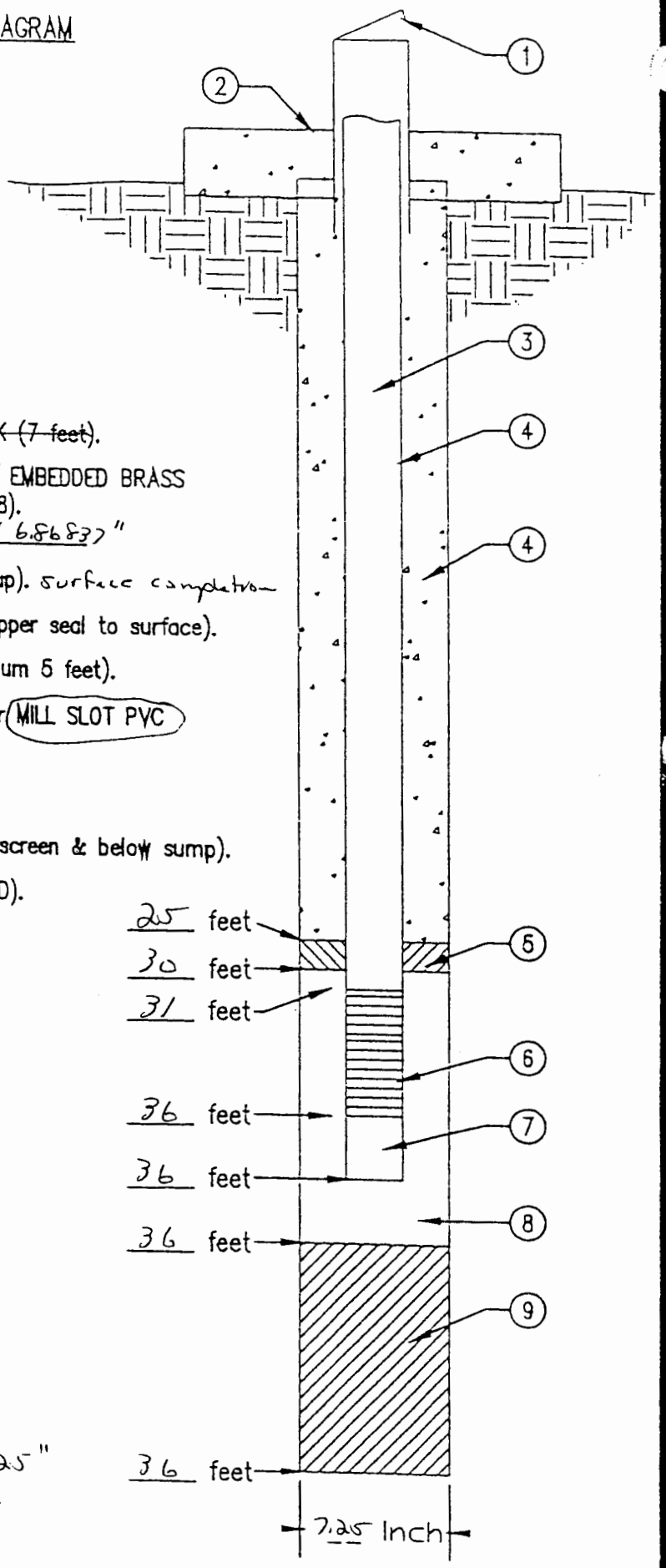
1. ~~PROTECTIVE STEEL OUTER SURFACE CASING W/LOCK (7 feet).~~ Surface completion
2. CONCRETE PAD (~~36~~ 12 inch X ~~36~~ 12 inch X ~~24~~ 6 inch) W/ EMBEDDED BRASS MARKER, ELEVATION 3960.48 feet (NAVD 1988).
   LAT. 32° 37' 3.39" LONG. 106° 18' 6.896"
3. ~~UPPER CASING: 4 inch SCH. 40 PVC (3 feet stickup).~~ Surface completion
4. BACKFILL: CEMENT/5% BENTONITE SLURRY (from upper seal to surface).
5. UPPER SEAL: HYDRATED BENTONITE CHIPS (minimum 5 feet).
6. SCREEN: 4 inch I.D., SCH. 40, 0.010 WIRE WRAP or MILL SLOT PVC
   5 ~~20~~ feet IN LENGTH.
   ~~SUMP: 4 inch SCH. 40 PVC (5 feet).~~
8. FILTER PACK: CLEAN SILICA SAND (5 feet above screen & below sump).
9. LOWER SEAL: BENTONITE CHIPS (base of filter to TD).

GENERAL NOTES:

1. TOTAL TEST HOLE DEPTH: 36 feet.
   TEST HOLE DIAMETER: ~~(min 5" / max 10")~~. 7.25"
3. ALL DEPTHS MEASURED FROM GROUND SURFACE.
4. DRAWING NOT TO SCALE.

FIGURE 1 – MONITORING WELL CONSTRUCTION DIAGRAM

WELL NUMBER: TBD HUW-03
WELL NAME: TBD HUW-03
GEOLOGIST: Kyle Williams
DATE STARTED: 5/3/00
DATE COMPLETED: 5/4/00



KEYED NOTES:

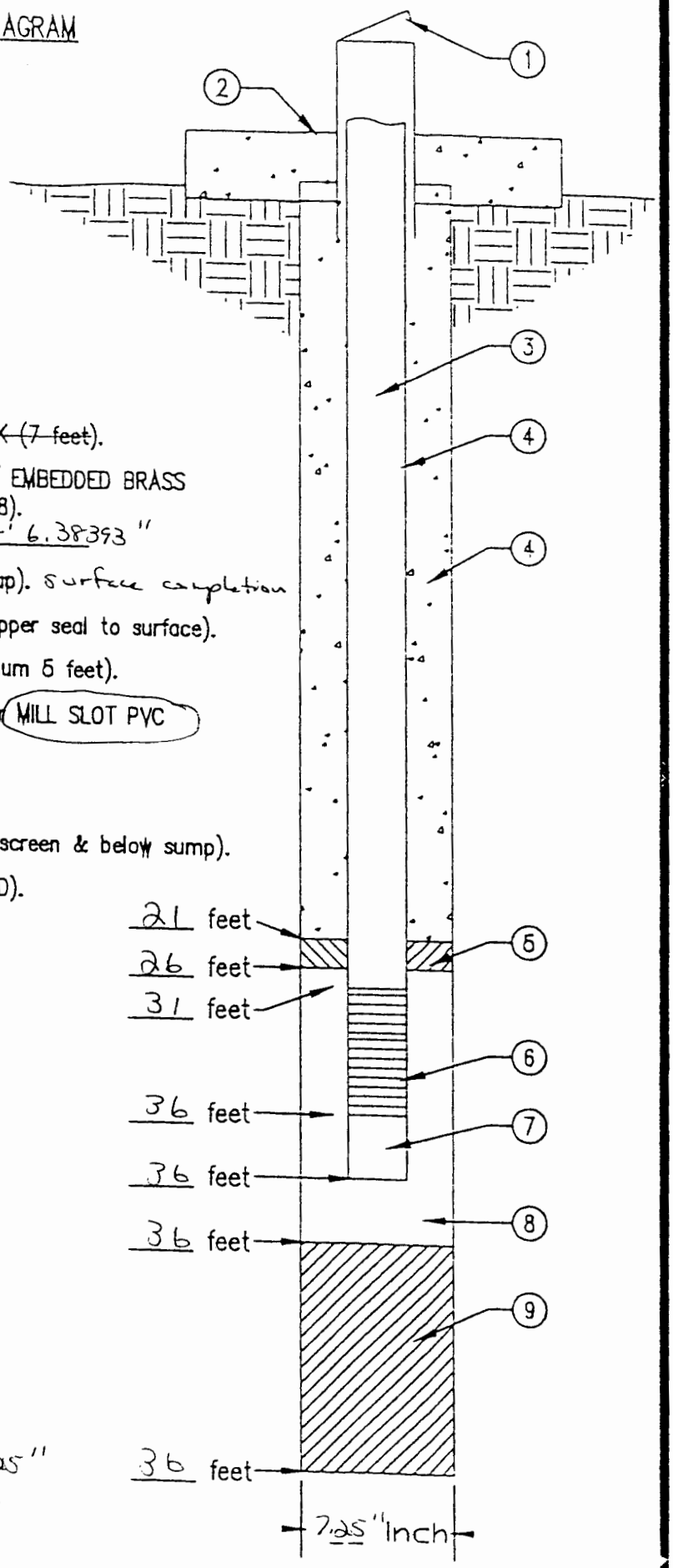
1. ~~PROTECTIVE STEEL OUTER SURFACE CASING W/LOCK (7 feet)~~. Surface completion
2. CONCRETE PAD (~~36~~ 12 inch X ~~36~~ 12 inch X ~~24~~ 6 inch) W/ EMBEDDED BRASS MARKER, ELEVATION 3960.9 feet (NAVD 1988).
   LAT. 32° 37' 3.10" LONG. 106° 18' 6.86837"
3. UPPER CASING: 4 inch SCH. 40 PVC (~~3 feet stickup~~). surface completion
4. BACKFILL: CEMENT/5% BENTONITE SLURRY (from upper seal to surface).
5. UPPER SEAL: HYDRATED BENTONITE CHIPS (minimum 5 feet).
6. SCREEN: 4 inch I.D., SCH. 40, 0.010 WIRE WRAP or MILL SLOT PVC
   5 ~~20~~ feet IN LENGTH.
7. ~~SUMP: 4 inch SCH. 40 PVC (5 feet)~~.
8. FILTER PACK: CLEAN SILICA SAND (5 feet above screen & below sump).
9. LOWER SEAL: BENTONITE CHIPS (base of filter to TD).

GENERAL NOTES:

1. TOTAL TEST HOLE DEPTH: 36 feet.
2. TEST HOLE DIAMETER: ~~(min 5" / max 10")~~. 7.25"
3. ALL DEPTHS MEASURED FROM GROUND SURFACE.
4. DRAWING NOT TO SCALE.

FIGURE 1 – MONITORING WELL CONSTRUCTION DIAGRAM

WELL NUMBER: TBD HUW-04
WELL NAME: TBD HUW-04
GEOLOGIST: Kyle Williams
DATE STARTED: 5/4/00
DATE COMPLETED: 5/4/00



KEYED NOTES:

1. ~~PROTECTIVE STEEL OUTER SURFACE CASING W/LOCK (7 feet)~~. Surface completion
2. CONCRETE PAD (~~36~~ 12 inch X ~~36~~ 12 inch X ~~24~~ 6 inch) W/ EMBEDDED BRASS MARKER, ELEVATION 3960.65 feet (NAVD 1988).
   LAT. 32° 37' 3.34" LONG. 106° 18' 6.38393"
3. UPPER CASING: 4 inch SCH. 40 PVC ~~(5 feet stickup)~~. surface completion
4. BACKFILL: CEMENT/5% BENTONITE SLURRY (from upper seal to surface).
5. UPPER SEAL: HYDRATED BENTONITE CHIPS (minimum 5 feet).
6. SCREEN: 4 inch I.D., SCH. 40, 0.010 WIRE WRAP or MILL SLOT PVC
   5 ~~20~~ feet IN LENGTH.
   ~~SUMP: 4 inch SCH. 40 PVC (5 feet)~~.
8. FILTER PACK: CLEAN SILICA SAND (5 feet above screen & below sump).
9. LOWER SEAL: BENTONITE CHIPS (base of filter to TD).

GENERAL NOTES:

1. TOTAL TEST HOLE DEPTH: 36 feet.
   TEST HOLE DIAMETER: ~~(min 6" / max 10")~~. 7.25"
3. ALL DEPTHS MEASURED FROM GROUND SURFACE.
4. DRAWING NOT TO SCALE.

APPENDIX G

SURVEY DATA

MOY SURVEYING INC.

MONITORING WELLS

WELL #	NORTHING	EASTING	ELEV.	LAT.	LONG.
MW-01/HMW01	3609676.278	377886.1329	3962.85	32 37 04.43	106 18 05.68293
REF. B.C.	3609676.731	377886.1603	3960.07		
MW-02/HMW-02	3609618.71	377829.1135	3962.71	32 37 02.54	106 18 07.84330
REF. B.C.	3609619.03	377829.0513	3960.77		
MW-03/HMW-03	3609593.563	377867.5639	3962.24	32 37 01.74	106 18 .0635643
REF. B.C.	3609593.944	377867.5784	3960.13		
MW-04/HUW-04	3609642.819	377867.4503	3960.28	32 37 03.34	106 18 06.38393
REF. B.C.	3609643.001	377867.3924	3960.65		
MW-05/HUW-02	3609644.391	377858.1214	3959.76	32 37 03.39	106 18 06.89600
REF. B.C.	3609644.724	377853.9593	3960.48		
MW-06/HUW-03	3609635.649	377854.7345	3960.52	32 37 03.10	106 18 06.86837
REF. B.C.	3609635.82	377854.7135	3960.9		
MW-07/HUW-01	3609640.227	377860.3171	3960.65	32 37 03.25	106 18 06.65636
TOP OF RIM	3609640.284	377860.3098	3960.92		

PROJECT BENCHMARK B.C. FOUND CAR 1967

NORTHING 3610025.65661

EASTING 376089.99290

ELEVATION 3978.40

LAT. 32 37 15.06

LONG. 106 19 14.75

APPENDIX H

LITHOLOGIC LOG (HMW-48)

FIELD BOREHOLE LOG

MEVATEC CORPORATION

BOREHOLE NO.: **26030-MW01**

TOTAL DEPTH: **115'**

PROJECT:	700-B9	DRILLING CO.:	Tierra Drilling
SITE LOCATION:	HELSTF TSA POL Station	DRILLER:	John McDuffee
LOGGED BY:	Kyle Williams/Greg Watterson	SIZE AND TYPE OF BIT:	7 ¼ HSA
DATES DRILLED:	1 May 2000	METHOD OF DRILLING:	CME 75
THICKNESS OF OVERBURDEN:	115 +	SAMPLING METHODS:	continuous

DEPTH	SOIL SYMBOLS	TIME	SOIL DESCRIPTION	% core recovery	PID ppm	Box or Sample No.	REMARKS
0		1200	Fill	20%	0.0	0-5	Fill (asphalt, base) to 4.5' below ground surface
-5		1208	Silty sand, fine-to medium-grained, poorly sorted, gypsum, loose, dry	20%	0.0	5-10	silty sand
-10		1218	Clayey silt, brown with 5% organics, moderately stiff, moist, with 0.5" selenite layers with 6" spacing	100%	0.0	10-14	clay silt
-15		1226	Silty sand, fine-to medium-grained, poorly sorted, gypsum, loose, dry			14-15 15-16	sand
-20		1237	Finely laminated silt and sand layers, very poorly sorted, loose, dry to moist, laminae is 0.25" thick	70%	0.0	16-20	silt/sand laminae
-25		1247	Clayey silt, red-brown with 5% organics, very stiff, moist, with selenite layers	100% 100%	0.0 0.0	21-25	clay-silt
-30		1302	Sand, fine-to medium-grained, moderately sorted, loose, tan-brown			29.5-30	sand
			Clayey silt, red-brown, stiff, moist	100%	0.0	32-34	clay-silt
-35		1312	Sand, fine-to medium-grained, moderately sorted			34-35 35-40	sand, wet to saturated
			Clayey silt, red-brown, stiff, moist				

DEPTH	SOIL SYMBOLS	TIME	SOIL DESCRIPTION	% core recovery	PID ppm	Box or Sample No.	REMARKS
				100%	0.0		
-40		1320					clay-silt
				100%	0.0		
			Sand, fine-to medium-grained, loose, dry, tan-brown			43-44	sand
-45		1326	Clayey silt, red-brown, stiff, moist			45-48	clay-silt
				100%	0.0		
			Sand, fine-to medium-grained, loose, dry, tan-brown			48-50	sand
-50		1335	Clayey silt, red-brown, stiff to very stiff, moist			50-55	
				100%	0.0		
-55		1350					clay-silt
				100%	0.0		
-60		1407	Silty sand, poorly sorted, loose, dry			60-61	sand
			Clayey silt, red-brown, stiff, moist with 6" sands at 62-62.5' and 64.5-65'	100%	0.0	61-65	clay-silt
-65		1418	Sand, fine-to medium-grained, loose, dry, tan-brown			65-69	
				100%	0.0		sand
			Clayey silt, red-brown, stiff, moist			69-70	silt
-70		1435	Sand, fine-to medium-grained, loose, dry, tan-brown			70-73	sand
				100%	0.0		
			Silty clay, stiff, moist, red-brown			73-75	
-75		1450					silt
			Sand, fine-grained, well sorted, dry	80%	0.0	77-78	sand
			Clayey silt, red-brown, stiff, moist with 6" sands at 81' and 83.5'			78-80	
-80		1510				80-85	
				100%	0.0		
							silt
-85		1525				85-90	

DEPTH	SOIL SYMBOLS	TIME	SOIL DESCRIPTION	% core recovery	PID ppm	Box or Sample No.	REMARKS
				100%	0.0		
		1540	Sand, wet to saturated, loose, brown, 30% silt			90-91	sand
			Clayey silt, red-brown, stiff, moist			91-95	
				100%	0.0		
-95		1555					silt
				20%	0.0		
			Silty sand, fine-to medium-grained, poorly sorted, brown, saturated			98-100	
-100		1620				100-105	
				100%	0.0		
-105		1645				105-110	sand, saturated
				40%	0.0		
-110		1705	Silty sand, loose, saturated, brown, with 2-3" clay-silts			110-115	
				50%	0.0		TD, 1 May 2000 @ 1720, 115 feet below ground
-115							

APPENDIX I

ANALYTICAL RESULTS,
INVESTIGATION-DERIVED WASTE
FROM THE MAY 2000 DRILLING INVESTIGATION

6270

MEVATEC CORPORATION
P.O. Box 399
Bldg. 126
WSMR, NM 88002
(505) 678-0263

CHAIN OF CUSTODY RECORD

PAGE 1 OF 1

PROJECT NO.: 70089
PROJECT NAME: HELSTF POL Station TSA
SAMPLER'S SIGNATURE: Alejandro Martz

DATE COLLECTED	TIME COLLECTED	SAMPLE ID	MATRIX	LAB NO.	NO. OF CONTAINERS	8015 mod.	GRO	MTBE	BTEX	REMARKS
6/26/00	1100	26030-rolloff #2 Composite-0600	soil	20003004	3	✓	✓	✓		
6/26/00	1110	26030-rolloff #1&3 Composite-0600	soil	+ 3005	3	✓	✓	✓		

PROJECT INFORMATION			1. RELINQUISHED BY: (SIGNATURE)	2. RELINQUISHED BY: (SIGNATURE)	3. RECEIVED BY LABORATORY: (SIGNATURE)
PROJECT MANAGER: Greg Watterson	SAMPLES RECEIVED		Alejandro Martz		Luna Guerra
	TOTAL NO. OF CONTAINERS		(PRINTED NAME) Alejandro Martinez	(PRINTED NAME)	(PRINTED NAME) Lucia Guerra
SHIPPING ID. NO.	CHAIN OF CUSTODY SEALS		RECEIVED BY:	RECEIVED BY:	(COMPANY) Trace
	GOOD CONDITION/CHILLED		(TIME / DATE) 8:05am (6/27/00)	(TIME / DATE)	(TIME / DATE) 6/27/00 10:05
VIA: Lab Courier	CONFORMS TO RECORD		SPECIAL INSTRUCTIONS / COMMENTS:		5°C

PLEASE USE BALL POINT PEN

DISTRIBUTION: WHITE - PROJECT FILES; YELLOW - LAB; PINK - FIELD COPY

TRACEANALYSIS, INC.

6701 Aberdeen Avenue, Suite 9 Lubbock, Texas 79424 800•378•1296 806•794•1296 FAX 806•794•1298
4725 Ripley Avenue, Suite A El Paso, Texas 79922 888•588•3443 915•585•3443 FAX 915•585•4944
E-Mail: lab@traceanalysis.com

REPORT SUMMARY

7/12/00

CLIENT: **MEVATEC**
PO Box 399, Bldg. 126
WSMR, NM 88002

SAMPLE DATE: 06/26/00

PROJECT ID: 700 B9 HELSTF TSA POL Station

ANALYSES REQUESTED: GRO, BTEX

TEMPERATURE UPON RECEIPT: 5° Celsius
Temperature acceptance range for most analysis is 2 – 6 degrees Celsius.

BFB surrogate in the MB, LCS and LCSD did not meet criteria. MTBE was out of laboratory established control limits in the spikes biased high, with recoveries of 70-95%.
Laboratory analyses were performed on samples utilizing procedures published in Standards Methods for the Examination of Water and Wastewater, 18th Edition 1992; EPA Test Methods for Evaluating Solid Waste 3rd Edition, through December 1996 revisions; or EPA Methods for the Chemical Analysis of Water and Wastes[EPA-600/4-79-020], March 1983, and the latest promulgated updates. This is an integral part of the report and must be included with all copies.

Melissa Brooks

Melissa Brooks

ANALYTICAL REPORT

TRACEANALYSIS, INC.

6701 Aberdeen Avenue, Suite 9 Lubbock, Texas 79424 800•378•1296 806•794•1296 FAX 806•794•1298
4725 Ripley Avenue, Suite A El Paso, Texas 79922 888•588•3443 915•585•3443 FAX 915•585•4944
E-Mail: lab@traceanalysis.com

CLIENT MEVATEC
PO BOX 399, BLDG. 126
WSMR, NM 88002

SAMPLE NO.: 20003004
INVOICE NO.: 22105964
REPORT DATE: 07-12-00
REVIEWED BY: R
PAGE : 1 OF 2

CLIENT SAMPLE ID : 26030-Roll Off #2 Comp-06
SAMPLE TYPE .....: Soil
SAMPLED BY .....: A.M.
SUBMITTED BY ....: G.W.
SAMPLE SOURCE ...: HELSTF POL Station TSA
ANALYST .....: FEM

AUTHORIZED BY : G. WATTERSON
CLIENT P.O. : --
SAMPLE DATE ...: 06-26-00
SUBMITTAL DATE : 06-27-00
EXTRACTION DATE: 06-27-00
ANALYSIS DATE .: 06-28-00

REMARKS -

BFB surrogate in the Method Blank, Laboratory Control Standard, and the Laboratory Control Standard Duplicate did not meet QC criteria. MtBE was out of Laboratory established control limits in the spikes biased high, with recoveries of 70% to 95%.

Petroleum Contaminants by 8021B

DATA TABLE

Parameter	Result	Unit	Detection Limit
Benzene	<50.	ug/Kg	50.
Toluene	<50.	ug/Kg	50.
Ethylbenzene	<50.	ug/Kg	50.
Total Xylenes	<50.	ug/Kg	50.
Methyl Tert-Butyl Ether	<100	ug/Kg	100

ANALYTICAL RESULT(S) REPORTED HEREIN APPLY ONLY TO THE SAMPLE(S) TESTED. FURTHERMORE, THIS REPORT CAN ONLY BE COPIED IN ITS ENTIRETY

(1) Copy to Client

Melissa Brooks
MANAGING DIRECTOR

ANALYTICAL REPORT

CLIENT MEVATEC
PO BOX 399, BLDG. 126
WSMR, NM 88002

SAMPLE NO. : 20003004
INVOICE NO.: 22105964
REPORT DATE: 07-12-00
REVIEWED BY: K
PAGE : 2 OF 2

D A T A T A B L E (Cont.)

Surrogate Information -

	Percent Recovery	Range
aaa-Trifluorotoluene .....:	105.0	76-116
4-Bromofluorobenzene .....:	99.4	70-125

(1) Copy to Client

TRACEANALYSIS, INC.

ANALYTICAL REPORT

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4725 Ripley Avenue, Suite A El Paso, Texas 79922 888•588•3443 915•585•3443 FAX 915•585•4944
E-Mail: lab@traceanalysis.com

CLIENT MEVATEC
PO BOX 399, BLDG. 126
WSMR, NM 88002

SAMPLE NO.: 20003004
INVOICE NO.: 22105964
REPORT DATE: 07-12-00
REVIEWED BY: K
PAGE : 1 OF 2

CLIENT SAMPLE ID : 26030-Roll Off #2 Comp-06
SAMPLE TYPE .....: Soil
SAMPLED BY .....: A.M.
SUBMITTED BY ....: G.W.
SAMPLE SOURCE ...: HELSTF POL Station TSA
ANALYST .....: FEM

AUTHORIZED BY : G. WATTERSON
CLIENT P.O. : --
SAMPLE DATE ...: 06-26-00
SUBMITTAL DATE : 06-27-00
EXTRACTION DATE: 07-05-00
ANALYSIS DATE .: 07-05-00

TPH Gas by Mod 8015

DATA TABLE

Parameter	Result	Unit	Detection Limit
TPH Gas	<20.	mg/Kg	20.

ANALYTICAL RESULT(S) REPORTED HEREIN APPLY ONLY TO THE SAMPLE(S) TESTED. FURTHERMORE, THIS REPORT CAN ONLY BE COPIED IN ITS ENTIRETY

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Melissa Brooks
MANAGING DIRECTOR

ANALYTICAL REPORT

CLIENT MEVATEC
PO BOX 399, BLDG. 126
WSMR, NM 88002

SAMPLE NO. : 20003004
INVOICE NO.: 22105964
REPORT DATE: 07-12-00
REVIEWED BY: h
PAGE : 2 OF 2

D A T A T A B L E (Cont.)

Surrogate Information -

	Percent Recovery	Range
1-ChloroOctane ..... :	101.0	80-120

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ANALYTICAL REPORT

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E-Mail: lab@traceanalysis.com

CLIENT MEVATEC
PO BOX 399, BLDG. 126
WSMR, NM 88002

SAMPLE NO.: 20003005
INVOICE NO.: 22105964
REPORT DATE: 07-12-00
REVIEWED BY: M
PAGE : 1 OF 2

CLIENT SAMPLE ID : 26030-Roll Off #1&3 Comp-
SAMPLE TYPE .....: Soil
SAMPLED BY .....: A.M.
SUBMITTED BY ....: G.W.
SAMPLE SOURCE ...: HELSTF POL Station TSA
ANALYST .....: FEM

AUTHORIZED BY : G. WATTERSON
CLIENT P.O. : --
SAMPLE DATE ...: 06-26-00
SUBMITTAL DATE : 06-27-00
EXTRACTION DATE: 06-27-00
ANALYSIS DATE .: 06-28-00

REMARKS -

BFB surrogate in the Method Blank, Laboratory Control Standard, and the Laboratory Control Standard Duplicate did not meet QC criteria. MtBE was out of laboratory established control limits in the spikes biased high, with recoveries of 70% to 95%.

Petroleum Contaminants by 8021B

DATA TABLE

Parameter	Result	Unit	Detection Limit
Benzene	<50.	ug/Kg	50.
Toluene	<50.	ug/Kg	50.
Ethylbenzene	<50.	ug/Kg	50.
Total Xylenes	<50.	ug/Kg	50.
Methyl Tert-Butyl Ether	<100	ug/Kg	100

ANALYTICAL RESULT(S) REPORTED HEREIN APPLY ONLY TO THE SAMPLE(S) TESTED. FURTHERMORE, THIS REPORT CAN ONLY BE COPIED IN ITS ENTIRETY

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ANALYTICAL REPORT

CLIENT MEVATEC
PO BOX 399, BLDG. 126
WSMR, NM 88002

SAMPLE NO. : 20003005
INVOICE NO.: 22105964
REPORT DATE: 07-12-00
REVIEWED BY: K
PAGE : 2 OF 2

D A T A T A B L E (Cont.)

Surrogate Information -

	Percent Recovery	Range
aaa-Trifluorotoluene .....:	104.0	76-116
4-Bromofluorobenzene .....:	98.4	70-125

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CLIENT MEVATEC
PO BOX 399, BLDG. 126
WSMR, NM 88002

SAMPLE NO.: 20003005
INVOICE NO.: 22105964
REPORT DATE: 07-12-00
REVIEWED BY: R
PAGE : 1 OF 2

CLIENT SAMPLE ID : 26030-Roll Off #1&3 Comp-
SAMPLE TYPE .....: Soil
SAMPLED BY .....: A.M.
SUBMITTED BY ....: G.W.
SAMPLE SOURCE ...: HELSTF POL Station TSA
ANALYST .....: FEM

AUTHORIZED BY : G. WATTERSON
CLIENT P.O. : --
SAMPLE DATE ...: 06-26-00
SUBMITTAL DATE : 06-27-00
EXTRACTION DATE: 07-05-00
ANALYSIS DATE .: 07-05-00

TPH Gas by Mod 8015

DATA TABLE

Parameter	Result	Unit	Detection Limit
TPH Gas	<20.	mg/Kg	20.

ANALYTICAL RESULT(S) REPORTED HEREIN APPLY ONLY TO THE SAMPLE(S) TESTED. FURTHERMORE, THIS REPORT CAN ONLY BE COPIED IN ITS ENTIRETY

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WSMR, NM 88002

SAMPLE NO. : 20003005
INVOICE NO.: 22105964
REPORT DATE: 07-12-00
REVIEWED BY:
PAGE : 2 OF 2

D A T A T A B L E (Cont.)

Surrogate Information -

	Percent Recovery	Range
1-ChloroOctane ..... :	101.0	80-120

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Bldg. 126
WSMR, NM 88002
(505) 678-0263

CHAIN OF CUSTODY RECORD

PAGE 1 OF 1

PROJECT NO.: 70089
PROJECT NAME: HELSTF JSA RCL Investigation
SAMPLER'S SIGNATURE:

DATE COLLECTED	TIME COLLECTED	SAMPLE ID	MATRIX	LAB NO.	NO. OF CONTAINERS	8015 TPH dro	BTEX+MTBE	TCLP VOC	TCLP SVOC 8270-MS BNA	Trip Blanks						REMARKS
5/5/00	0745	26030-Rollofs #1/4 #3 (composite)	Soil		2	X	X	X	X							2000 2127
5/5/00	0800	26030-Rollofs #2 (composite)	Soil		2	X	X	X	X							20002128
5/5/00	1845	26030-Decon Water	Aqueous		8		X	X	X	X						20002129
5/5/00	1845	26030-Decon Water	Aqueous		2						X					20002130

PROJECT INFORMATION			1. RELINQUISHED BY: (SIGNATURE)	2. RELINQUISHED BY: (SIGNATURE)	3. RECEIVED BY LABORATORY: (SIGNATURE)
PROJECT MANAGER: Garza-Mason PE	SAMPLES RECEIVED		(PRINTED NAME) Gary Watson	(PRINTED NAME)	(PRINTED NAME) L. Guerra
SHIPPING ID. NO.	TOTAL NO. OF CONTAINERS		RECEIVED BY: Fleen Costa	RECEIVED BY:	(COMPANY) Trace
	CHAIN OF CUSTODY SEALS		(TIME / DATE) 8:20am 5-10-00	(TIME / DATE)	(TIME / DATE) 9:55 am 5/10/0
VIA: Lab Courier	GOOD CONDITION/CHILLED	5°C	SPECIAL INSTRUCTIONS / COMMENTS: Composite samples of soil cuttings + decon water		
	CONFORMS TO RECORD				

PLEASE USE BALL POINT PEN

DISTRIBUTION: WHITE - PROJECT FILES; YELLOW - LAB; PINK - FIELD COPY

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ANALYTICAL REPORT

CLIENT MEVATEC
PO BOX 399, BLDG. 126
WSMR, NM 88002

SAMPLE NO.: 20002129
INVOICE NO.: 22105698
REPORT DATE: 06-27-00
REVIEWED BY: K
PAGE : 1 OF 2

CLIENT SAMPLE ID : 26030-Decon Water
SAMPLE TYPE .....: Aqueous
SAMPLED BY .....: --
SUBMITTED BY ....: G.M.
SAMPLE SOURCE ...: HELSTF TSA POL Investigat
ANALYST .....: F. Martinez

AUTHORIZED BY : G. Moon
CLIENT P.O. : --
SAMPLE DATE ...: 05-09-00
SUBMITTAL DATE : 05-10-00
EXTRACTION DATE: --
ANALYSIS DATE .: 05-11-00

REMARKS -

Closing Continuing Calibration Verification recovery was out of acceptance criteria.
CORRECTED CERTIFICATE:
Corrected sample ID and type.

TPH Gas by Mod 8015

DATA TABLE

Parameter	Result	Unit	Detection Limit
TPH Gas .....:	<1.0	mg/L	1.0

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ANALYTICAL REPORT

CLIENT MEVATEC
PO BOX 399, BLDG. 126
WSMR, NM 88002

SAMPLE NO. : 20002129
INVOICE NO.: 22105698
REPORT DATE: 06-27-00
REVIEWED BY:
PAGE : 2 OF 2

D A T A T A B L E (Cont.)

Surrogate Information -	Percent Recovery	Range
1-ChloroOctane ..... :	108.0	80-120

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ANALYTICAL REPORT

CLIENT MEVATEC
PO BOX 399, BLDG. 126
WSMR, NM 88002

SAMPLE NO.: 20002129
INVOICE NO.: 22105698
REPORT DATE: 06-27-00
REVIEWED BY: K
PAGE : 1 OF 2

CLIENT SAMPLE ID : 26030-Decon Water
SAMPLE TYPE .....: Aqueous
SAMPLED BY .....: --
SUBMITTED BY ....: G.M.
SAMPLE SOURCE ...: HELSTF TSA POL Investigat
ANALYST .....: B. Murphy

AUTHORIZED BY : G. Moon
CLIENT P.O. : --
SAMPLE DATE ...: 05-09-00
SUBMITTAL DATE : 05-10-00
EXTRACTION DATE: --
ANALYSIS DATE .: 05-18-00

REMARKS -

Chloroform and 1,1-Dichloroethene were out of acceptance criteria in the Matrix Spikes.
CORRECTED CERTIFICATE:
Corrected sample ID and type.

TCLP Volatiles by EPA 8260B

DATA TABLE

Parameter	Result	Unit	Detection Limit
Vinyl Chloride	<0.05	mg/L	0.05
1,1-Dichloroethene	<0.05	mg/L	0.05
1,2-Dichloroethane	<0.05	mg/L	0.05
Chloroform	<0.05	mg/L	0.05
2-Butanone	<0.05	mg/L	0.05
Benzene	<0.05	mg/L	0.05
Carbon Tetrachloride	<0.05	mg/L	0.05
Trichloroethene	<0.05	mg/L	0.05
Tetrachloroethene	<0.05	mg/L	0.05
Chlorobenzene	<0.05	mg/L	0.05
1,4-Dichlorobenzene	<0.05	mg/L	0.05

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PO BOX 399, BLDG. 126
WSMR, NM 88002

SAMPLE NO. : 20002129
INVOICE NO.: 22105698
REPORT DATE: 06-27-00
REVIEWED BY:

D A T A T A B L E (Cont.)

Surrogate Information -

	Percent Recovery	Range
Dibromofluoromethane	94.0	89-115
Toluene-d8	97.8	92-114
4-Bromofluorobenzene	89.4	67-109

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CLIENT MEVATEC
PO BOX 399, BLDG. 126
WSMR, NM 88002

SAMPLE NO.: 20002129
INVOICE NO.: 22105698
REPORT DATE: 06-27-00
REVIEWED BY: K
PAGE : 1 OF 2

CLIENT SAMPLE ID : 26030-Decon Water
SAMPLE TYPE .....: Aqueous
SAMPLED BY .....: --
SUBMITTED BY ....: G.M.
SAMPLE SOURCE ...: HELSTF TSA POL Investigat
ANALYST .....: B. Murphy

AUTHORIZED BY : G. Moon
CLIENT P.O. : --
SAMPLE DATE ...: 05-09-00
SUBMITTAL DATE : 05-10-00
EXTRACTION DATE: 05-15-00
ANALYSIS DATE .: 05-18-00

REMARKS -

Relative Percent Difference between Matrix Spikes was out of acceptance criteria for Pentachlorophenol.
Surrogate 2,4,6-Tribromophenol was out of acceptance criteria in the Matrix Spikes.
CORRECTED CERTIFICATE:
Corrected sample ID and type.

TCLP Semi - Volatiles by EPA 8270C

DATA TABLE

Parameter	Result	Unit	Detection Limit
Pyridine .....:	<0.05	mg/L	0.05
1,4-Dichlorobenzene .....:	<0.05	mg/L	0.05
2-Methylphenol .....:	<0.05	mg/L	0.05
3-Methylphenol/4-Methylphenol ....:	<0.05	mg/L	0.05
Hexachloroethane .....:	<0.05	mg/L	0.05
Nitrobenzene .....:	<0.05	mg/L	0.05
Hexachlorobutadiene .....:	<0.05	mg/L	0.05
2,4,6-Trichlorophenol .....:	<0.05	mg/L	0.05
2,4,5-Trichlorophenol .....:	<0.05	mg/L	0.05
2,4-Dinitrotoluene .....:	<0.05	mg/L	0.05
Hexachlorobenzene .....:	<0.05	mg/L	0.05
Pentachlorophenol .....:	<0.05	mg/L	0.05

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ANALYTICAL REPORT

CLIENT MEVATEC
PO BOX 399, BLDG. 126
WSMR, NM 88002

SAMPLE NO. : 20002129
INVOICE NO.: 22105698
REPORT DATE: 06-27-00
REVIEWED BY: K
PAGE : 2 OF 2

D A T A T A B L E (Cont.)

Surrogate Information -

	Percent Recovery	Range
2-Flourophenol	55.2	1-148
Phenol-D5	40.6	1-170
Nitrobenzene-d5	87.9	22-142
2-Flurobiphenyl	94.3	39-145
2,4,6-Tribromophenol	65.3	69-153
Terphenyl-d14	90.6	61-169

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CLIENT MEVATEC
PO BOX 399, BLDG. 126
WSMR, NM 88002

SAMPLE NO.: 20002130
INVOICE NO.: 22105698
REPORT DATE: 06-27-00
REVIEWED BY:
PAGE : 1 OF 2

CLIENT SAMPLE ID : 26030-Decon Water
SAMPLE TYPE .....: Aqueous
SAMPLED BY .....: --
SUBMITTED BY ....: G.M.
SAMPLE SOURCE ...: HELSTF TSA POL Investigat
ANALYST .....: F.Martinez

AUTHORIZED BY : G. Moon
CLIENT P.O. : --
SAMPLE DATE ...: 05-09-00
SUBMITTAL DATE : 05-10-00
EXTRACTION DATE: --
ANALYSIS DATE .: 05-10-00

REMARKS -

Surrogate BFB was out of acceptance criteria in the Opening Calibration Verification standard.
MTBE was out of acceptance criteria in the Laboratory Control Spikes, biased high.
CORRECTED CERTIFICATE:
Corrected sample ID and type.

Petroleum Contaminants by 8021B

DATA TABLE

Parameter	Result	Unit	Detection Limit
Benzene ..... :	<1.0	ug/L	1.0
Toluene ..... :	<1.0	ug/L	1.0
Ethylbenzene ..... :	<1.0	ug/L	1.0
Total Xylenes ..... :	<1.0	ug/L	1.0
Methyl Tert-Butyl Ether ..... :	<2.0	ug/L	2.0

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Karen Cook
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ANALYTICAL REPORT

CLIENT MEVATEC
PO BOX 399, BLDG. 126
WSMR, NM 88002

SAMPLE NO. : 20002130
INVOICE NO.: 22105698
REPORT DATE: 06-27-00
REVIEWED BY:

D A T A T A B L E (Cont.)

Surrogate Information -

	Percent Recovery	Range
aaa Trifluorotoluene .....:	105.0	87-118
4-Bromoflurobenzene .....:	109.0	91-109

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E-Mail: lab@traceanalysis.com

CLIENT MEVATEC
PO BOX 399, BLDG. 126
WSMR, NM 88002

SAMPLE NO.: 20002130
INVOICE NO.: 22105698
REPORT DATE: 06-27-00
REVIEWED BY:
PAGE : 1 OF 2

CLIENT SAMPLE ID : 26030-Decon Water
SAMPLE TYPE .....: Aqueous
SAMPLED BY .....: --
SUBMITTED BY ....: G.M.
SAMPLE SOURCE ...: HELSTF TSA POL Investigat
ANALYST .....: F. Martinez

AUTHORIZED BY : G. Moon
CLIENT P.O. : --
SAMPLE DATE ...: 05-09-00
SUBMITTAL DATE : 05-10-00
EXTRACTION DATE: --
ANALYSIS DATE .: 05-11-00

REMARKS -

Closing Continuing Calibration Verification recovery was out of acceptance criteria.
CORRECTED CERTIFICATE:
Corrected sample ID and type.

TPH Gas by Mod 8015

DATA TABLE

Parameter	Result	Unit	Detection Limit
TPH Gas ..... :	<1.0	mg/L	1.0

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Kerrin Cobb
MANAGING DIRECTOR

ANALYTICAL REPORT

CLIENT MEVATEC
PO BOX 399, BLDG. 126
WSMR, NM 88002

SAMPLE NO. : 20002130
INVOICE NO.: 22105698
REPORT DATE: 06-27-00
REVIEWED BY:
PAGE : 2 OF 2

D A T A T A B L E (Cont.)

Surrogate Information -	Percent Recovery	Range
1-ChloroOctane ..... :	92.0	80-120

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ANALYTICAL REPORT

CLIENT MEWATER
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WSMR, NM 88002

SAMPLE NO.: 20002129
INVOICE NO.: 22105698
REPORT DATE: 06-27-00
REVIEWED BY:
PAGE : 1 OF 2

CLIENT SAMPLE ID : 26030-Decon Water
SAMPLE TYPE .....: Aqueous
SAMPLED BY .....: --
SUBMITTED BY ....: G.M.
SAMPLE SOURCE ...: HELSTF TSA POL Investigat
ANALYST .....: F.Martinez

AUTHORIZED BY : G. Moon
CLIENT P.O. : --
SAMPLE DATE ...: 05-09-00
SUBMITTAL DATE : 05-10-00
EXTRACTION DATE: --
ANALYSIS DATE .: 05-10-00

REMARKS -

Surrogate BFB was out of acceptance criteria in the Opening Calibration Verification standard.
MTBE was out of acceptance criteria in the Laboratory Control Spikes, biased high.
CORRECTED CERTIFICATE:
Corrected sample ID and type.

Petroleum Contaminants by 8021B

DATA TABLE

Parameter	Result	Unit	Detection Limit
Benzene	<1.0	ug/L	1.0
Toluene	<1.0	ug/L	1.0
Ethylbenzene	<1.0	ug/L	1.0
Total Xylenes	<1.0	ug/L	1.0
Methyl Tert-Butyl Ether	<2.0	ug/L	2.0

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ANALYTICAL REPORT

CLIENT MEVATEC
PO BOX 399, BLDG. 126
WSMR, NM 88002

SAMPLE NO. : 20002129
INVOICE NO.: 22105698
REPORT DATE: 06-27-00
REVIEWED BY:

D A T A T A B L E (Cont.)

Surrogate Information -

	Percent Recovery	Range
aaa Trifluorotoluene .....:	105.0	87-118
4-Bromoflurobenzene .....:	109.0	91-109

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E-Mail: lab@traceanalysis.com

CLIENT MEVATEC CORPORATION
P.O. BOX 399, BLDG 126
WSMR, NM 88002

SAMPLE NO. 20002128
INVOICE NO.: 22105698
REPORT DATE: 05-15-00
REVIEWED BY:
PAGE : 1 OF 2

CLIENT SAMPLE ID :	26030-Roll off#2 (Composi	AUTHORIZED BY :	G. Moon
SAMPLE TYPE .....:	Soil	CLIENT P.O. :	--
SAMPLED BY .....:	--	SAMPLE DATE ...:	05-09-00
SUBMITTED BY ....:	G.M.	SUBMITTAL DATE :	05-10-00
SAMPLE SOURCE ...:	HELSTF TSA POL Investigat	EXTRACTION DATE:	05-11-00
ANALYST .....:	F. Martinez	ANALYSIS DATE .:	05-12-00

REMARKS -

Matrix Spike was non-recoverable due to mis-spiking.
BFB Surrogate was out of acceptance criteria in the sample, Method Blank, and Laboratory Control Spikes.

Petroleum Contaminants by 8021B

DATA TABLE

Parameter	Result	Unit	Detection Limit
Benzene .....:	<50.	ug/Kg	50.
Toluene .....:	<50.	ug/Kg	50.
Ethylbenzene .....:	<50.	ug/Kg	50.
Total Xylenes .....:	<50.	ug/Kg	50.
Methyl Tert-Butyl Ether .....:	<100	ug/Kg	100

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ANALYTICAL REPORT

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P.O. BOX 399, BLDG 126
WSMR, NM 88002

SAMPLE NO. : 20002128
INVOICE NO.: 22105698
REPORT DATE: 05-15-00
REVIEWED BY:

D A T A T A B L E (Cont.)

Surrogate Information -

	Percent Recovery	Range
aaa-Trifluorotoluene .....:	104.0	76-115
4-Bromofluorobenzene .....:	7.7	70-126

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ANALYTICAL REPORT

CLIENT MEVATEC CORPORATION
P.O. BOX 399, BLDG 126
WSMR, NM 88002

SAMPLE NO.: 20002128
INVOICE NO.: 22105698
REPORT DATE: 05-23-00
REVIEWED BY:
PAGE : 1 OF 2

CLIENT SAMPLE ID : 26030-Roll off#2 (Composi
SAMPLE TYPE .....: Soil
SAMPLED BY .....: --
SUBMITTED BY ....: G.M.
SAMPLE SOURCE ...: HELSTF TSA POL Investigat
ANALYST .....: B. Murphy

AUTHORIZED BY : G. Moon
CLIENT P.O. : --
SAMPLE DATE ...: 05-09-00
SUBMITTAL DATE : 05-10-00
EXTRACTION DATE: --
ANALYSIS DATE .: 05-18-00

TCLP Volatiles by EPA 8260B

DATA TABLE

Parameter	Result	Unit	Detection Limit
Vinyl Chloride	<0.05	mg/L	0.05
1,1-Dichloroethene	<0.05	mg/L	0.05
1,2-Dichloroethane	<0.05	mg/L	0.05
Chloroform	<0.05	mg/L	0.05
2-Butanone	<0.05	mg/L	0.05
Benzene	<0.05	mg/L	0.05
Carbon Tetrachloride	<0.05	mg/L	0.05
Trichloroethene	<0.05	mg/L	0.05
Tetrachloroethene	<0.05	mg/L	0.05
Chlorobenzene	<0.05	mg/L	0.05
1,4-Dichlorobenzene	<0.05	mg/L	0.05

ANALYTICAL RESULT(S) REPORTED HEREIN APPLY ONLY TO THE SAMPLE(S) TESTED. FURTHERMORE, THIS REPORT CAN ONLY BE COPIED IN ITS ENTIRETY

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MANAGING DIRECTOR

ANALYTICAL REPORT

CLIENT MEVATEC CORPORATION
P.O. BOX 399, BLDG 126
WSMR, NM 88002

SAMPLE NO. : 20002128
INVOICE NO.: 22105698
REPORT DATE: 05-23-00
REVIEWED BY: K
PAGE : 2 OF 2

D A T A T A B L E (Cont.)

Surrogate Information -

	Percent Recovery	Range
Dibromofluoromethane .....:	95.4	89-115
Toluene-d8 .....:	99.2	92-114
4-Bromofluorobenzene .....:	93.0	67-109

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E-Mail: lab@traceanalysis.com

ANALYTICAL REPORT

CLIENT MEVA ENG
PO BOX 399, BLDG. 126
WSMR, NM 88002

SAMPLE NO.: 20002128
INVOICE NO.: 22105698
REPORT DATE: 05-31-00
REVIEWED BY:
PAGE : 1 OF 2

CLIENT SAMPLE ID : 26030-Roll off#2 (Composi
SAMPLE TYPE .....: Soil
SAMPLED BY .....: --
SUBMITTED BY ....: G.M.
SAMPLE SOURCE ...: HELSTF TSA POL Investigat
ANALYST .....: A. Myers

AUTHORIZED BY : G. MOON
CLIENT P.O. : --
SAMPLE DATE ...: 05-09-00
SUBMITTAL DATE : 05-10-00
EXTRACTION DATE: 05-16-00
ANALYSIS DATE .: 05-16-00

Modified Method 8015- Petroleum Contaminants

DATA TABLE

Parameter	Result	Unit	Detection Limit
TPH Diesel by Mod 8015 .....:	<50.	mg/Kg	50.

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Karen Cook
MANAGING DIRECTOR

ANALYTICAL REPORT

CLIENT MEVATEC
PO BOX 399, BLDG. 126
WSMR, NM 88002

SAMPLE NO. : 20002128
INVOICE NO.: 22105698
REPORT DATE: 05-31-00
REVIEWED BY:

D A T A T A B L E (Cont.)

Surrogate Information -

	Percent Recovery	Range
Hexacosane ..... :	83.6	59-128

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E-Mail: lab@traceanalysis.com

ANALYTICAL REPORT

CLIENT MEVATEC
PO BOX 399, BLDG. 126
WSMR, NM 88002

SAMPLE NO.: 20002128
INVOICE NO.: 22105698
REPORT DATE: 06-05-00
REVIEWED BY:
PAGE : 1 OF 2

CLIENT SAMPLE ID :	26030-Roll off#2 (Composi	AUTHORIZED BY :	G. MOON
SAMPLE TYPE .....:	Soil	CLIENT P.O. :	--
SAMPLED BY .....:	--	SAMPLE DATE ...:	05-09-00
SUBMITTED BY ....:	G.M.	SUBMITTAL DATE :	05-10-00
SAMPLE SOURCE ...:	HELSTF TSA POL Investigat	EXTRACTION DATE:	05-16-00
ANALYST .....:	B. Murphy	ANALYSIS DATE .:	05-18-00

REMARKS -

Relative Percent Difference between Matrix Spikes was out of acceptance criteria in the following spike compounds: Pyridine, Benzene, 2-Methylphenol, 3/4 Methylphenol, Hexachloroethane, Hexachlorobutadiene, 2,4,6-Trichlorophenol, 2,4,5-Trichlorophenol, 2,4-Dinitrotoluene and 1,4-Dichlorobenzene.

TCLP Semi - Volatiles by EPA 8270C

DATA TABLE

Parameter	Result	Unit	Detection Limit
Pyridine .....:	<0.05	mg/L	0.05
1,4-Dichlorobenzene .....:	<0.05	mg/L	0.05
2-Methylphenol .....:	<0.05	mg/L	0.05
3-Methylphenol/4-Methylphenol ....:	<0.05	mg/L	0.05
Hexachloroethane .....:	<0.05	mg/L	0.05
Nitrobenzene .....:	<0.05	mg/L	0.05
Hexachlorobutadiene .....:	<0.05	mg/L	0.05
2,4,6-Trichlorophenol .....:	<0.05	mg/L	0.05
2,4,5-Trichlorophenol .....:	<0.05	mg/L	0.05
2,4-Dinitrotoluene .....:	<0.05	mg/L	0.05
Hexachlorobenzene .....:	<0.05	mg/L	0.05
Pentachlorophenol .....:	<0.05	mg/L	0.05

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Karen Cook
MANAGING DIRECTOR

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CLIENT MEVATEC
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WSMR, NM 88002

SAMPLE NO. : 20002128
INVOICE NO.: 22105698
REPORT DATE: 06-05-00
REVIEWED BY:

D A T A T A B L E (Cont.)

Surrogate Information -

	Percent Recovery	Range
2-Flourophenol	64.3	1-148
Phenol-D5	43.6	1-170
Nitrobenzene-d5	101.0	22-142
2-Flurobiphenyl	107.0	39-145
2,4,6-Tribromophenol	89.0	69-153
Terphenyl-d14	106.0	61-169

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E-Mail: lab@traceanalysis.com

ANALYTICAL REPORT

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P.O. BOX 399, BLDG 126
WSMR, NM 88002

SAMPLE NO.: 20002127
INVOICE NO.: 22105698
REPORT DATE: 05-15-00
REVIEWED BY:
PAGE : 1 OF 2

CLIENT SAMPLE ID :	26030-Roll off #1 &3 (Com	AUTHORIZED BY :	G. Moon
SAMPLE TYPE .....:	Soil	CLIENT P.O. :	--
SAMPLED BY .....:	--	SAMPLE DATE ...:	05-09-00
SUBMITTED BY ....:	G.M.	SUBMITTAL DATE :	05-10-00
SAMPLE SOURCE ...:	HELSTF TSA POL Investigat	EXTRACTION DATE:	05-11-00
ANALYST .....:	F. Martinez	ANALYSIS DATE .:	05-12-00

REMARKS -

BFB Surrogate was out of acceptance criteria in the Sample, Method Blank, and Laboratory Control Spikes.

Petroleum Contaminants by 8021B

DATA TABLE

Parameter	Result	Unit	Detection Limit
Benzene .....:	<50.	ug/Kg	50.
Toluene .....:	<50.	ug/Kg	50.
Ethylbenzene .....:	<50.	ug/Kg	50.
Total Xylenes .....:	<50.	ug/Kg	50.
Methyl Tert-Butyl Ether .....:	<100	ug/Kg	100

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ANALYTICAL REPORT

CLIENT MEVATEC CORPORATION
P.O. BOX 399, BLDG 126
WSMR, NM 88002

SAMPLE NO. : 20002127
INVOICE NO.: 22105698
REPORT DATE: 05-15-00
REVIEWED BY:
PAGE : 2 OF 2

D A T A T A B L E (Cont.)

Surrogate Information -

	Percent Recovery	Range
aaa-Trifluorotoluene .....:	105.0	76-115
4-Bromofluorobenzene .....:	8.3	70-126

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ANALYTICAL REPORT

CLIENT MEVATEC CORPORATION
P.O. BOX 399, BLDG 126
WSMR, NM 88002

SAMPLE NO.: 20002127
INVOICE NO.: 22105698
REPORT DATE: 05-23-00
REVIEWED BY:
PAGE : 1 OF 2

CLIENT SAMPLE ID :	26030-Roll off #1 &3 (Com	AUTHORIZED BY :	G. Moon
SAMPLE TYPE .....:	Soil	CLIENT P.O. :	--
SAMPLED BY .....:	--	SAMPLE DATE ...:	05-09-00
SUBMITTED BY ....:	G.M.	SUBMITTAL DATE :	05-10-00
SAMPLE SOURCE ...:	HELSTF TSA POL Investigat	EXTRACTION DATE:	--
ANALYST .....:	B. Murphy	ANALYSIS DATE .:	05-18-00

REMARKS -

Recoveries of Matrix Spike compounds Chloroform and 1,1-Dichloroethene were above control limits.

TCLP Volatiles by EPA 8260B

DATA TABLE

Parameter	Result	Unit	Detection Limit
Vinyl Chloride .....:	<0.05	mg/L	0.05
1,1-Dichloroethene .....:	<0.05	mg/L	0.05
1,2-Dichloroethane .....:	<0.05	mg/L	0.05
Chloroform .....:	<0.05	mg/L	0.05
2-Butanone .....:	<0.05	mg/L	0.05
Benzene .....:	<0.05	mg/L	0.05
Carbon Tetrachloride .....:	<0.05	mg/L	0.05
Trichloroethene .....:	<0.05	mg/L	0.05
Tetrachloroethene .....:	<0.05	mg/L	0.05
Chlorobenzene .....:	<0.05	mg/L	0.05
1,4-Dichlorobenzene .....:	<0.05	mg/L	0.05

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WSMR, NM 88002

SAMPLE NO. : 20002127
INVOICE NO.: 22105698
REPORT DATE: 05-23-00
REVIEWED BY:

D A T A T A B L E (Cont.)

Surrogate Information -

	Percent Recovery	Range
Dibromofluoromethane .....:	94.8	89-115
Toluene-d8 .....:	101.2	92-114
4-Bromofluorobenzene .....:	95.0	67-109

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E-Mail: lab@traceanalysis.com

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CLIENT MEVATEC
PO BOX 399, BLDG. 126
WSMR, NM 88002

SAMPLE NO.: 20002127
INVOICE NO.: 22105698
REPORT DATE: 05-31-00
REVIEWED BY: K
PAGE : 1 OF 2

CLIENT SAMPLE ID : 26030-Roll off #1 &3 (Com
SAMPLE TYPE .....: Soil
SAMPLED BY .....: --
SUBMITTED BY ....: G.M.
SAMPLE SOURCE ...: HELSTF TSA POL Investigat
ANALYST .....: A. Myers

AUTHORIZED BY : G. MOON
CLIENT P.O. : --
SAMPLE DATE ...: 05-09-00
SUBMITTAL DATE : 05-10-00
EXTRACTION DATE: 05-16-00
ANALYSIS DATE .: 05-16-00

Modified Method 8015- Petroleum Contaminants

DATA TABLE

Parameter	Result	Unit	Detection Limit
TPH Diesel by Mod 8015 .....:	<50.	mg/Kg	50.

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WSMR, NM 88002

SAMPLE NO. : 20002127
INVOICE NO.: 22105698
REPORT DATE: 05-31-00
REVIEWED BY:

D A T A T A B L E (Cont.)

Surrogate Information -

	Percent Recovery	Range
Hexacosane ..... :	100.0	59-128

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CLIENT MEVATEC
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WSMR, NM 88002

SAMPLE NO.: 20002127
INVOICE NO.: 22105698
REPORT DATE: 06-05-00
REVIEWED BY:
PAGE : 1 OF 2

CLIENT SAMPLE ID : 26030-Roll off #1 &3 (Com
SAMPLE TYPE .....: Soil
SAMPLED BY .....: --
SUBMITTED BY ....: G.M.
SAMPLE SOURCE ...: HELSTF TSA POL Investigat
ANALYST .....: B. Murphy

AUTHORIZED BY : G. MOON
CLIENT P.O. : --
SAMPLE DATE ...: 05-09-00
SUBMITTAL DATE : 05-10-00
EXTRACTION DATE: 05-16-00
ANALYSIS DATE .: 05-02-00

TCLP Semi - Volatiles by EPA 8270C

DATA TABLE

Parameter	Result	Unit	Detection Limit
Pyridine	0.32	mg/L	0.05
1,4-Dichlorobenzene	<0.05	mg/L	0.05
2-Methylphenol	<0.05	mg/L	0.05
3-Methylphenol/4-Methylphenol	<0.05	mg/L	0.05
Hexachloroethane	<0.05	mg/L	0.05
Nitrobenzene	<0.05	mg/L	0.05
Hexachlorobutadiene	<0.05	mg/L	0.05
2,4,6-Trichlorophenol	<0.05	mg/L	0.05
2,4,5-Trichlorophenol	<0.05	mg/L	0.05
2,4-Dinitrotoluene	<0.05	mg/L	0.05
Hexachlorobenzene	<0.05	mg/L	0.05
Pentachlorophenol	<0.05	mg/L	0.05

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MANAGING DIRECTOR

ANALYTICAL REPORT

CLIENT MEVATEC
PO BOX 399, BLDG. 126
WSMR, NM 88002

SAMPLE NO. : 20002127
INVOICE NO.: 22105698
REPORT DATE: 06-05-00
REVIEWED BY:

D A T A T A B L E (Cont.)

Surrogate Information -

	Percent Recovery	Range
2-Flourophenol	65.3	1-148
Phenol-D5	45.6	1-170
Nitrobenzene-d5	96.1	22-142
2-Flurobiphenyl	103.0	39-145
2,4,6-Tribromophenol	87.2	69-153
Terphenyl-d14	86.9	61-169

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APPENDIX J

ANALYTICAL RESULTS,
MAY-JUNE 2000 SOIL AND GROUNDWATER INVESTIGATION

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ANALYTICAL REPORT

CLIENT MEVATEC CORPORATION
P.O. BOX 399, BLDG 126
WSMR, NM 88002

SAMPLE NO.: 20001893
INVOICE NO.: 22105650
REPORT DATE: 05-22-00
REVIEWED BY:
PAGE : 1 OF 2

CLIENT SAMPLE ID : 26030-SB01-(1.5-2.0)
SAMPLE TYPE .....: Soil
SAMPLED BY .....: --
SUBMITTED BY ....: G.M.
SAMPLE SOURCE ...: HELSTF TSA POL
ANALYST .....: F. Martinez

AUTHORIZED BY : G.W.
CLIENT P.O. : --
SAMPLE DATE ...: 05-02-00
SUBMITTAL DATE : 05-03-00
EXTRACTION DATE: 05-03-00
ANALYSIS DATE .: 05-11-00

REMARKS -

Opening Continuing Calibration Verification was out of acceptance criteria.

TPH Gas by Mod 8015

DATA TABLE

Parameter	Result	Unit	Detection Limit
TPH Gas	22.	mg/Kg	20.

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ANALYTICAL REPORT

CLIENT MEVATEC CORPORATION
P.O. BOX 399, BLDG 126
WSMR, NM 88002

SAMPLE NO. : 20001893
INVOICE NO.: 22105650
REPORT DATE: 05-22-00
REVIEWED BY:

D A T A T A B L E (Cont.)

Surrogate Information -

	Percent Recovery	Range
1-ChloroOctane ..... :	79.1	37-130

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E-Mail: lab@traceanalysis.com

CLIENT MEVATEC CORPORATION
P.O. BOX 399, BLDG 126
WSMR, NM 88002

SAMPLE NO.: 20001894
INVOICE NO.: 22105650
REPORT DATE: 05-22-00
REVIEWED BY:
PAGE : 1 OF 2

CLIENT SAMPLE ID : 26030-SB01-(6.5-7.0)
SAMPLE TYPE .....: Soil
SAMPLED BY .....: --
SUBMITTED BY ....: G.M.
SAMPLE SOURCE ...: HELSTF TSA POL
ANALYST .....: F. Martinez

AUTHORIZED BY : G.W.
CLIENT P.O. : --
SAMPLE DATE ...: 05-02-00
SUBMITTAL DATE : 05-03-00
EXTRACTION DATE: 05-03-00
ANALYSIS DATE .: 05-11-00

TPH Gas by Mod 8015

DATA TABLE

Parameter	Result	Unit	Detection Limit
TPH Gas	1400	mg/Kg	100.

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SAMPLE NO. : 20001894
INVOICE NO.: 22105650
REPORT DATE: 05-22-00
REVIEWED BY:

D A T A T A B L E (Cont.)

Surrogate Information -

	Percent Recovery	Range
1-ChloroOctane ..... :	83.3	37-130

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ANALYTICAL REPORT

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WSMR, NM 88002

SAMPLE NO.: 20001895
INVOICE NO.: 22105650
REPORT DATE: 05-22-00
REVIEWED BY:
PAGE : 1 OF 2

CLIENT SAMPLE ID : 26030-SB01-(11.5-12.0)
SAMPLE TYPE .....: Soil
SAMPLED BY .....: --
SUBMITTED BY ....: G.M.
SAMPLE SOURCE ...: HELSTF TSA POL
ANALYST .....: F. Martinez

AUTHORIZED BY : G.W.
CLIENT P.O. : --
SAMPLE DATE ...: 05-02-00
SUBMITTAL DATE : 05-03-00
EXTRACTION DATE: 05-03-00
ANALYSIS DATE .: 05-11-00

TPH Gas by Mod 8015

DATA TABLE

Parameter	Result	Unit	Detection Limit
TPH Gas .....:	2500	mg/Kg	100

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ANALYTICAL REPORT

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P.O. BOX 399, BLDG 126
WSMR, NM 88002

SAMPLE NO. : 20001895
INVOICE NO.: 22105650
REPORT DATE: 05-22-00
REVIEWED BY:

D A T A T A B L E (Cont.)

Surrogate Information -

	Percent Recovery	Range
1-ChloroOctane ..... :	99.4	37-130

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ANALYTICAL REPORT

CLIENT MEVATEC CORPORATION
P.O. BOX 399, BLDG 126
WSMR, NM 88002

SAMPLE NO.: 20001896
INVOICE NO.: 22105650
REPORT DATE: 05-22-00
REVIEWED BY:
PAGE : 1 OF 2

CLIENT SAMPLE ID : 26030-SB01-(16.5-17.0)
SAMPLE TYPE .....: Soil
SAMPLED BY .....: --
SUBMITTED BY ....: G.M.
SAMPLE SOURCE ...: HELSTF TSA POL
ANALYST .....: F. Martinez

AUTHORIZED BY : G.W.
CLIENT P.O. : --
SAMPLE DATE ...: 05-02-00
SUBMITTAL DATE : 05-03-00
EXTRACTION DATE: 05-03-00
ANALYSIS DATE .: 05-11-00

REMARKS -

Opening Continuing Calibration Verification was out of acceptance criteria.

TPH Gas by Mod 8015

DATA TABLE

Parameter	Result	Unit	Detection Limit
TPH Gas ..... :	24000	mg/Kg	1000

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MANAGING DIRECTOR

ANALYTICAL REPORT

CLIENT MEVATEC CORPORATION
P.O. BOX 399, BLDG 126
WSMR, NM 88002

SAMPLE NO. : 20001896
INVOICE NO.: 22105650
REPORT DATE: 05-22-00
REVIEWED BY:

D A T A T A B L E (Cont.)

Surrogate Information -

	Percent Recovery	Range
1-ChloroOctane ..... :	76.3	37-130

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E-Mail: lab@traceanalysis.com

ANALYTICAL REPORT

CLIENT MEVATEC CORPORATION
P.O. BOX 399, BLDG 126
WSMR, NM 88002

SAMPLE NO.: 20001897
INVOICE NO.: 22105650
REPORT DATE: 05-22-00
REVIEWED BY:
PAGE : 1 OF 2

CLIENT SAMPLE ID : 26030-SB01-(21.5-22.0)
SAMPLE TYPE .....: Soil
SAMPLED BY .....: --
SUBMITTED BY ....: G.M.
SAMPLE SOURCE ...: HELSTF TSA POL
ANALYST .....: F. Martinez

AUTHORIZED BY : G.W.
CLIENT P.O. : --
SAMPLE DATE ...: 05-02-00
SUBMITTAL DATE : 05-03-00
EXTRACTION DATE: 05-03-00
ANALYSIS DATE .: 05-11-00

REMARKS -

Opening Continuing Calibration Verification was out of acceptance criteria.

TPH Gas by Mod 8015

DATA TABLE

Parameter	Result	Unit	Detection Limit
TPH Gas	6500	mg/Kg	500.

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Karen Cooke
MANAGING DIRECTOR

ANALYTICAL REPORT

CLIENT MEVATEC CORPORATION
P.O. BOX 399, BLDG 126
WSMR, NM 88002

SAMPLE NO. : 20001897
INVOICE NO.: 22105650
REPORT DATE: 05-22-00
REVIEWED BY:

D A T A T A B L E (Cont.)

Surrogate Information -

	Percent Recovery	Range
1-ChloroOctane ..... :	86.9	37-130

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E-Mail: lab@traceanalysis.com

ANALYTICAL REPORT

CLIENT MEVATEC CORPORATION
P.O. BOX 399, BLDG 126
WSMR, NM 88002

SAMPLE NO.: 20001898
INVOICE NO.: 22105650
REPORT DATE: 05-22-00
REVIEWED BY:
PAGE : 1 OF 2

CLIENT SAMPLE ID : 26030-SB01-(26.5-27.0)
SAMPLE TYPE .....: Soil
SAMPLED BY .....: --
SUBMITTED BY ....: G.M.
SAMPLE SOURCE ...: HELSTF TSA POL
ANALYST .....: F. Martinez

AUTHORIZED BY : G.W.
CLIENT P.O. : --
SAMPLE DATE ...: 05-02-00
SUBMITTAL DATE : 05-03-00
EXTRACTION DATE: 05-03-00
ANALYSIS DATE .: 05-11-00

REMARKS -

Opening Continuing Calibration Verification was out of acceptance criteria.

TPH Gas by Mod 8015

DATA TABLE

Parameter	Result	Unit	Detection Limit
TPH Gas .....:	31.	mg/Kg	20.

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MANAGING DIRECTOR

ANALYTICAL REPORT

CLIENT MEVATEC CORPORATION
P.O. BOX 399, BLDG 126
WSMR, NM 88002

SAMPLE NO. : 20001898
INVOICE NO.: 22105650
REPORT DATE: 05-22-00
REVIEWED BY:

D A T A T A B L E (Cont.)

Surrogate Information -

	Percent Recovery	Range
1-ChloroOctane ..... :	80.3	37-130

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ANALYTICAL REPORT

CLIENT MEVATEC CORPORATION
P.O. BOX 399, BLDG 126
WSMR, NM 88002

SAMPLE NO.: 20001899
INVOICE NO.: 22105650
REPORT DATE: 05-22-00
REVIEWED BY:
PAGE : 1 OF 2

CLIENT SAMPLE ID : 26030-SB01-(31.5-32.0)
SAMPLE TYPE .....: Soil
SAMPLED BY .....: --
SUBMITTED BY ....: G.M.
SAMPLE SOURCE ...: HELSTF TSA POL
ANALYST .....: F. Martinez

AUTHORIZED BY : G.W.
CLIENT P.O. : --
SAMPLE DATE ...: 05-02-00
SUBMITTAL DATE : 05-03-00
EXTRACTION DATE: 05-03-00
ANALYSIS DATE .: 05-11-00

REMARKS -

Opening Continuing Calibration Verification was out of acceptance criteria.

TPH Gas by Mod 8015

DATA TABLE

Parameter	Result	Unit	Detection Limit
TPH Gas .....:	<20.	mg/Kg	20.

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ANALYTICAL REPORT

CLIENT MEVATEC CORPORATION
P.O. BOX 399, BLDG 126
WSMR, NM 88002

SAMPLE NO. : 20001[illegible]9
INVOICE NO.: 22105650
REPORT DATE: 05-22-00
REVIEWED BY:
PAGE : 2 OF 2

D A T A T A B L E (Cont.)

Surrogate Information -

	Percent Recovery	Range
1-ChloroOctane ..... :	76.0	37-130

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ANALYTICAL REPORT

CLIENT MEVATEC CORPORATION
P.O. BOX 399, BLDG 126
WSMR, NM 88002

SAMPLE NO.: 20001900
INVOICE NO.: 22105650
REPORT DATE: 05-22-00
REVIEWED BY:
PAGE : 1 OF 2

CLIENT SAMPLE ID : 26030-SB01-(36.5-37.0)
SAMPLE TYPE .....: Soil
SAMPLED BY .....: --
SUBMITTED BY ....: G.M.
SAMPLE SOURCE ...: HELSTF TSA POL
ANALYST .....: F. Martinez

AUTHORIZED BY : G.W.
CLIENT P.O. : --
SAMPLE DATE ...: 05-02-00
SUBMITTAL DATE : 05-03-00
EXTRACTION DATE: 05-03-00
ANALYSIS DATE .: 05-11-00

REMARKS -

Opening Continuing Calibration Verification was out of acceptance criteria.

TPH Gas by Mod 8015

DATA TABLE

Parameter	Result	Unit	Detection Limit
TPH Gas .....:	23.	mg/Kg	20.

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ANALYTICAL REPORT

CLIENT MEVATEC CORPORATION
P.O. BOX 399, BLDG 126
WSMR, NM 88002

SAMPLE NO. : 20001900
INVOICE NO.: 22105650
REPORT DATE: 05-22-00
REVIEWED BY:

D A T A T A B L E (Cont.)

Surrogate Information -

	Percent Recovery	Range
1-ChloroOctane ..... :	75.4	37-130

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CLIENT MEVATEC CORPORATION
P.O. BOX 399, BLDG 126
WSMR, NM 88002

SAMPLE NO.: 20001901
INVOICE NO.: 22105650
REPORT DATE: 05-22-00
REVIEWED BY:
PAGE : 1 OF 2

CLIENT SAMPLE ID : 26030-SB01-(41.5-42.0)
SAMPLE TYPE .....: Soil
SAMPLED BY .....: --
SUBMITTED BY ....: G.M.
SAMPLE SOURCE ...: HELSTF TSA POL
ANALYST .....: F. Martinez

AUTHORIZED BY : G.W.
CLIENT P.O. : --
SAMPLE DATE ...: 05-02-00
SUBMITTAL DATE : 05-03-00
EXTRACTION DATE: 05-03-00
ANALYSIS DATE .: 05-11-00

REMARKS -

Opening Continuing Calibration Verification was out of acceptance criteria.

TPH Gas by Mod 8015

DATA TABLE

Parameter	Result	Unit	Detection Limit
TPH Gas .....:	<20.	mg/Kg	20.

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ANALYTICAL REPORT

CLIENT MEVATEC CORPORATION
P.O. BOX 399, BLDG 126
WSMR, NM 88002

SAMPLE NO. : 20001901
INVOICE NO.: 22105650
REPORT DATE: 05-22-00
REVIEWED BY:

D A T A T A B L E (Cont.)

Surrogate Information -

	Percent Recovery	Range
1-ChloroOctane ..... :	80.7	37-130

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ANALYTICAL REPORT

CLIENT MEWATER CORPORATION
P.O. BOX 399
BLDG. 126
WSMR, NM. 88002

SAMPLE NO.: 20001893
INVOICE NO.: 22105650
REPORT DATE: 05-22-00
REVIEWED BY:
PAGE : 1 OF 2

CLIENT SAMPLE ID : 26030-SB01-(1.5-2.0)
SAMPLE TYPE .....: Soil
SAMPLED BY .....: --
SUBMITTED BY ....: G.M.
SAMPLE SOURCE ...: HELSTF TSA POL
ANALYST .....: F. Martinez

AUTHORIZED BY : G.W.
CLIENT P.O. : --
SAMPLE DATE ...: 05-02-00
SUBMITTAL DATE : 05-03-00
EXTRACTION DATE: 05-03-00
ANALYSIS DATE .: 05-13-00

REMARKS -

Continuing Calibration Verification standard recoveries for Benzene were out of acceptance criteria by <2%.
BFB Surrogate was out of acceptance criteria in the Sample, Method Blank, and Spikes.

Petroleum Contaminants by 8021B

DATA TABLE

Parameter	Result	Unit	Detection Limit
Benzene .....:	250	ug/Kg	50.
Toluene .....:	750	ug/Kg	50.
Ethylbenzene .....:	130	ug/Kg	50.
Total Xylenes .....:	450	ug/Kg	50.
Methyl Tert-Butyl Ether .....:	270	ug/Kg	100

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ANALYTICAL RESULTS REPORTED HEREIN APPLY ONLY TO THE SAMPLE(S) TESTED. FURTHERMORE, THIS REPORT CAN ONLY BE COPIED IN ITS ENTIRETY.

Kevin Cobb
MANAGING DIRECTOR

ANALYTICAL REPORT

CLIENT MEVATEC CORPORATION
P.O. BOX 399
BLDG. 126
WSMR, NM. 88002

SAMPLE NO. : 20001893
INVOICE NO.: 22105650
REPORT DATE: 05-22-00
REVIEWED BY:

D A T A T A B L E (Cont.)

Surrogate Information -

	Percent Recovery	Range
aaa-Trifluorotoluene	103.0	76-115
4-Bromofluorobenzene	9.7	70-126

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ANALYTICAL REPORT

CLIENT MEVA ENERGY CORPORATION
P.O. BOX 399
BLDG. 126
WSMR, NM. 88002

SAMPLE NO.: 20001894
INVOICE NO.: 22105650
REPORT DATE: 05-22-00
REVIEWED BY:
PAGE : 1 OF 2

CLIENT SAMPLE ID : 26030-SB01-(6.5-7.0)
SAMPLE TYPE .....: Soil
SAMPLED BY .....: --
SUBMITTED BY ....: G.M.
SAMPLE SOURCE ...: HELSTF TSA POL
ANALYST .....: F. Martinez

AUTHORIZED BY : G.W.
CLIENT P.O. : --
SAMPLE DATE ...: 05-02-00
SUBMITTAL DATE : 05-03-00
EXTRACTION DATE: 05-03-00
ANALYSIS DATE .: 05-13-00

REMARKS -

Continuing Calibration Verification standard recoveries for Benzene were out of acceptance criteria by <2%.
TFT Surrogate was out of acceptance criteria.
BFB Surrogate was out of acceptance criteria in the Method Blank and Spikes.

Petroleum Contaminants by 8021B

DATA TABLE

Parameter	Result	Unit	Detection Limit
Benzene .....:	16000	ug/Kg	400
Toluene .....:	160000	ug/Kg	400
Ethylbenzene .....:	70000	ug/Kg	400
Total Xylenes .....:	220000	ug/Kg	400
Methyl Tert-Butyl Ether .....:	4100	ug/Kg	800

ANALYTICAL RESULT(S) REPORTED HEREIN APPLY ONLY TO THE SAMPLE(S) TESTED. FURTHERMORE, THIS REPORT CAN ONLY BE COPIED IN ITS ENTIRETY

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ANALYTICAL REPORT

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WSMR, NM. 88002

SAMPLE NO. : 20001894
INVOICE NO.: 22105650
REPORT DATE: 05-22-00
REVIEWED BY:
PAGE : 2 OF 2

D A T A T A B L E (Cont.)

Surrogate Information -

	Percent Recovery	Range
aaa-Trifluorotoluene .....:	115.0	76-114
4-Bromofluorobenzene .....:	102.0	70-126

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ANALYTICAL REPORT

CLIENT MEVATEC CORPORATION
P.O. BOX 399
WSMR, NM. 88002

SAMPLE NO. 20001895
INVOICE NO.: 22105650
REPORT DATE: 05-22-00
REVIEWED BY:
PAGE : 1 OF 2

CLIENT SAMPLE ID : 26030-SB01-(11.5-12.0)
SAMPLE TYPE .....: Soil
SAMPLED BY .....: --
SUBMITTED BY ....: G.M.
SAMPLE SOURCE ...: HELSTF TSA POL
ANALYST .....: F. Martinez

AUTHORIZED BY : G.W.
CLIENT P.O. : --
SAMPLE DATE ...: 05-02-00
SUBMITTAL DATE : 05-03-00
EXTRACTION DATE: 05-03-00
ANALYSIS DATE .: 05-13-00

REMARKS -

Continuing Calibration Verification Standard recoveries for Benzene were out of acceptance criteria by <2%.
TFT Surrogate was out of acceptance criteria.
BFB Surrogate was out of acceptance criteria in the Method Blank and Spikes.

Petroleum Contaminants by 8021B

DATA TABLE

Parameter	Result	Unit	Detection Limit
Benzene	34000	ug/Kg	400
Toluene	270000	ug/Kg	400
Ethylbenzene	95000	ug/Kg	400
Total Xylenes	300000	ug/Kg	400
Methyl Tert-Butyl Ether	7700	ug/Kg	800

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Karen Cash
MANAGING DIRECTOR

ANALYTICAL REPORT

CLIENT MEVATEC CORPORATION
P.O. BOX 399
WSMR, NM. 88002

SAMPLE NO. : 20001895
INVOICE NO.: 22105650
REPORT DATE: 05-22-00
REVIEWED BY:

D A T A T A B L E (Cont.)

Surrogate Information -

	Percent Recovery	Range
aaa-Trifluorotoluene	123.0	76-115
4-Bromofluorobenzene	103.0	70-126

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E-Mail: lab@traceanalysis.com

ANALYTICAL REPORT

CLIENT MEVATEC CORPORATION
P.O. BOX 399, BLDG 399
WSMR, NM 88002

SAMPLE NO. 20001896
INVOICE NO.: 22105650
REPORT DATE: 05-22-00
REVIEWED BY:
PAGE : 1 OF 2

CLIENT SAMPLE ID : 26030-SB01-(16.5-17.0)
SAMPLE TYPE .....: Soil
SAMPLED BY .....: --
SUBMITTED BY ....: G.M.
SAMPLE SOURCE ...: HELSTF TSA POL
ANALYST .....: F. Martinez

AUTHORIZED BY : G.W.
CLIENT P.O. : --
SAMPLE DATE ...: 05-02-00
SUBMITTAL DATE : 05-03-00
EXTRACTION DATE: 05-03-00
ANALYSIS DATE .: 05-13-00

REMARKS -

Continuing Calibration Verification Standard recoveries for Benzene were out of acceptance criteria by <2%.
BFB Surrogate was out of acceptance criteria in the Method Blank, and Laboratory Control Samples.
Sample results reported in ppm.

Petroleum Contaminants by 8021B

DATA TABLE

Parameter	Result	Unit	Detection Limit
Benzene .....:	360	mg/Kg	0.40
Toluene .....:	2400	mg/Kg	2.0
Ethylbenzene .....:	780	mg/Kg	2.0
Total Xylenes .....:	2400	mg/Kg	2.0
Methyl Tert-Butyl Ether .....:	72	mg/Kg	0.80

ANALYTICAL RESULT(S) REPORTED HEREIN APPLY ONLY TO THE SAMPLE(S) TESTED. FURTHERMORE, THIS REPORT CAN ONLY BE COPIED IN ITS ENTIRETY

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Karen Cole
MANAGING DIRECTOR

ANALYTICAL REPORT

CLIENT MEVATEC CORPORATION
P.O. BOX 399, BLDG 399
WSMR, NM 88002

SAMPLE NO. : 20001896
INVOICE NO.: 22105650
REPORT DATE: 05-22-00
REVIEWED BY:

D A T A T A B L E (Cont.)

Surrogate Information -

	Percent Recovery	Range
aaa-Trifluorotoluene .....:	107.0	76-115
4-Bromofluorobenzene .....:	108.0	70-126

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E-Mail: lab@traceanalysis.com

ANALYTICAL REPORT

CLIENT MEVATEC CORPORATION
P.O. BOX 399
BLDG. 126
WSMR, NM. 88002

SAMPLE NO. 20001897
INVOICE NO.: 22105650
REPORT DATE: 05-22-00
REVIEWED BY:
PAGE : 1 OF 2

CLIENT SAMPLE ID : 26030-SB01-(21.5-22.0)
SAMPLE TYPE .....: Soil
SAMPLED BY .....: --
SUBMITTED BY ....: G.M.
SAMPLE SOURCE ...: HELSTF TSA POL
ANALYST .....: F. Martinez

AUTHORIZED BY : G.W.
CLIENT P.O. : --
SAMPLE DATE ...: 05-02-00
SUBMITTAL DATE : 05-03-00
EXTRACTION DATE: 05-03-00
ANALYSIS DATE .: 05-13-00

REMARKS -

Continuing Calibration Verification Standard recoveries for Benzene were out of acceptance criteria by <2%.
BFB Surrogate was out of acceptance criteria in the Method Blank, and Spikes.

Petroleum Contaminants by 8021B

DATA TABLE

Parameter	Result	Unit	Detection Limit
Benzene	110000	ug/Kg	400
Toluene	770000	ug/Kg	2000
Ethylbenzene	240000	ug/Kg	400
Total Xylenes	740000	ug/Kg	400
Methyl Tert-Butyl Ether	22000	ug/Kg	800

ANALYTICAL RESULT(S) REPORTED HEREIN APPLY ONLY TO THE SAMPLE(S) TESTED. FURTHERMORE, THIS REPORT CAN ONLY BE COPIED IN ITS ENTIRETY

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MANAGING DIRECTOR

ANALYTICAL REPORT

CLIENT MEVATEC CORPORATION
P.O. BOX 399
BLDG. 126
WSMR, NM. 88002

SAMPLE NO. : 20001897
INVOICE NO.: 22105650
REPORT DATE: 05-22-00
REVIEWED BY:

D A T A T A B L E (Cont.)

Surrogate Information -

	Percent Recovery	Range
aaa-Trifluorotoluene .....:	110.0	76-115
4-Bromofluorobenzene .....:	103.0	70-126

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ANALYTICAL REPORT

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CLIENT MEWATER CORPORATION
P.O. BOX 399
BLDG. 126
WSMR, NM. 88002

SAMPLE NO.: 20001898
INVOICE NO.: 22105650
REPORT DATE: 05-22-00
REVIEWED BY:
PAGE : 1 OF 2

CLIENT SAMPLE ID : 26030-SB01-(26.5-27.0)
SAMPLE TYPE .....: Soil
SAMPLED BY .....: --
SUBMITTED BY ....: G.M.
SAMPLE SOURCE ...: HELSTF TSA POL
ANALYST .....: F. Martinez

AUTHORIZED BY : G.W.
CLIENT P.O. : --
SAMPLE DATE ...: 05-02-00
SUBMITTAL DATE : 05-03-00
EXTRACTION DATE: 05-03-00
ANALYSIS DATE .: 05-13-00

REMARKS -

Continuing Calibration Verification standard recoveries for Benzene were out of acceptance criteria by <2%.
BFB Surrogate was out of acceptance criteria in the Sample, Method Blank, and Spikes.

Petroleum Contaminants by 8021B

DATA TABLE

Parameter	Result	Unit	Detection Limit
Benzene .....:	160	ug/Kg	50.
Toluene .....:	490	ug/Kg	50.
Ethylbenzene .....:	85.	ug/Kg	50.
Total Xylenes .....:	210	ug/Kg	50.
Methyl Tert-Butyl Ether .....:	<50.	ug/Kg	100

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ANALYTICAL RESULT(S) REPORTED HEREIN APPLY ONLY TO THE SAMPLE(S) TESTED. FURTHERMORE, THIS REPORT CAN ONLY BE COPIED IN ITS ENTIRETY

Karen Cooke
MANAGING DIRECTOR

ANALYTICAL REPORT

CLIENT MEVATEC CORPORATION
P.O. BOX 399
BLDG. 126
WSMR, NM. 88002

SAMPLE NO. : 20001898
INVOICE NO.: 22105650
REPORT DATE: 05-22-00
REVIEWED BY: Y
PAGE : 2 OF 2

D A T A T A B L E (Cont.)

Surrogate Information -

	Percent Recovery	Range
aaa-Trifluorotoluene .....:	101.0	76-115
4-Bromofluorobenzene .....:	5.4	70-126

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E-Mail: lab@traceanalysis.com

ANALYTICAL REPORT

CLIENT MEVATEC CORPORATION
P.O. BOX 399
BLDG. 126
WSMR, NM. 88002

SAMPLE NO. 20001899
INVOICE NO.: 22105650
REPORT DATE: 05-22-00
REVIEWED BY:
PAGE : 1 OF 2

CLIENT SAMPLE ID : 26030-SB01-(31.5-32.0)
SAMPLE TYPE .....: Soil
SAMPLED BY .....: --
SUBMITTED BY ....: G.M.
SAMPLE SOURCE ...: HELSTF TSA POL
ANALYST .....: F. Martinez

AUTHORIZED BY : G.W.
CLIENT P.O. : --
SAMPLE DATE ...: 05-02-00
SUBMITTAL DATE : 05-03-00
EXTRACTION DATE: 05-03-00
ANALYSIS DATE .: 05-13-00

REMARKS -

Continuing Calibration Verification Standard recoveries for Benzene were out of acceptance criteria by <2%.
BFB Surrogate was out of acceptance criteria in the Sample, Method Blank, and Spikes.

Petroleum Contaminants by 8021B

DATA TABLE

Parameter	Result	Unit	Detection Limit
Benzene ..... :	<50.	ug/Kg	50.
Toluene ..... :	<50.	ug/Kg	50.
Ethylbenzene ..... :	<50.	ug/Kg	50.
Total Xylenes ..... :	<50.	ug/Kg	50.
Methyl Tert-Butyl Ether ..... :	<100	ug/Kg	100

ANALYTICAL RESULTS REPORTED HEREIN APPLY ONLY TO THE SAMPLE(S) TESTED. FURTHERMORE, THIS REPORT CAN ONLY BE COPIED IN ITS ENTIRETY

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MANAGING DIRECTOR

ANALYTICAL REPORT

CLIENT MEVATEC CORPORATION
P.O. BOX 399
BLDG. 126
WSMR, NM. 88002

SAMPLE NO. : 20001899
INVOICE NO.: 22105650
REPORT DATE: 05-22-00
REVIEWED BY:

D A T A T A B L E (Cont.)

Surrogate Information -

	Percent Recovery	Range
aaa-Trifluorotoluene .....:	99.9	76-115
4-Bromofluorobenzene .....:	10.1	70-126

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E-Mail: lab@traceanalysis.com

ANALYTICAL REPORT

CLIENT MEWBOURNE CORPORATION
P.O. BOX 399
BLDG. 126
WSMR, NM. 88002

SAMPLE NO.: 20001900
INVOICE NO.: 22105650
REPORT DATE: 05-22-00
REVIEWED BY:
PAGE : 1 OF 2

CLIENT SAMPLE ID : 26030-SB01-(36.5-37.0)
SAMPLE TYPE .....: Soil
SAMPLED BY .....: --
SUBMITTED BY ....: G.M.
SAMPLE SOURCE ...: HELSTF TSA POL
ANALYST .....: F. Martinez

AUTHORIZED BY : G.W.
CLIENT P.O. : --
SAMPLE DATE ...: 05-02-00
SUBMITTAL DATE : 05-03-00
EXTRACTION DATE: 05-03-00
ANALYSIS DATE .: 05-13-00

REMARKS -

Continuin Calibration Verfification Standard recoveries for Benzene were out of acceptance criteria by <2%.
BFB surrogate was out of acceptance criteria in the Sample, Method Blank, and Spikes.

Petroleum Contaminants by 8021B

DATA TABLE

Parameter	Result	Unit	Detection Limit
Benzene .....:	<50.	ug/Kg	50.
Toluene .....:	<50.	ug/Kg	50.
Ethylbenzene .....:	<50.	ug/Kg	50.
Total Xylenes .....:	<50.	ug/Kg	50.
Methyl Tert-Butyl Ether .....:	<100	ug/Kg	100

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MANAGING DIRECTOR

ANALYTICAL REPORT

CLIENT MEVATEC CORPORATION
P.O. BOX 399
BLDG. 126
WSMR, NM. 88002

SAMPLE NO. : 20001900
INVOICE NO.: 22105650
REPORT DATE: 05-22-00
REVIEWED BY:
PAGE : 2 OF 2

D A T A T A B L E (Cont.)

Surrogate Information -

	Percent Recovery	Range
aaa-Trifluorotoluene .....:	100.0	76-115
4-Bromofluorobenzene .....:	13.3	70-126

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CLIENT MEVATEC CORPORATION
P.O. BOX 399
BLDG. 126
WSMR, NM. 88002

SAMPLE NO.: 20001901
INVOICE NO.: 22105650
REPORT DATE: 05-22-00
REVIEWED BY:
PAGE : 1 OF 2

CLIENT SAMPLE ID : 26030-SB01-(41.5-42.0)
SAMPLE TYPE .....: Soil
SAMPLED BY .....: --
SUBMITTED BY ....: G.M.
SAMPLE SOURCE ...: HELSTF TSA POL
ANALYST .....: F. Martinez

AUTHORIZED BY : G.W.
CLIENT P.O. : --
SAMPLE DATE ...: 05-02-00
SUBMITTAL DATE : 05-03-00
EXTRACTION DATE: 05-03-00
ANALYSIS DATE .: 05-13-00

REMARKS -

Continuing Calibration Verification Standard recoveries for Benzene were out of acceptance criteria by <2%.
BFB Surrogate was out of acceptance criteria in the Sample, Method Blank, and Spikes.

Petroleum Contaminants by 8021B

DATA TABLE

Parameter	Result	Unit	Detection Limit
Benzene .....:	<50.	ug/Kg	50.
Toluene .....:	<50.	ug/Kg	50.
Ethylbenzene .....:	<50.	ug/Kg	50.
Total Xylenes .....:	<50.	ug/Kg	50.
Methyl Tert-Butyl Ether .....:	<100	ug/Kg	100

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ANALYTICAL REPORT

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WSMR, NM. 88002

SAMPLE NO. : 20001901
INVOICE NO.: 22105650
REPORT DATE: 05-22-00
REVIEWED BY:

D A T A T A B L E (Cont.)

Surrogate Information -

	Percent Recovery	Range
aaa-Trifluorotoluene	102.0	76-115
4-Bromofluorobenzene	10.8	70-126

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E-Mail: lab@traceanalysis.com

CLIENT MEWATER CORPORATION
P.O. BOX 399, BLDG 126
WSMR, NM 88002

SAMPLE NO.: 20002004
INVOICE NO.: 22105666
REPORT DATE: 05-24-00
REVIEWED BY:
PAGE : 1 OF 2

CLIENT SAMPLE ID :	26030-SB02-(1.5-2.0)	AUTHORIZED BY :	G. Moon
SAMPLE TYPE .....:	Soil	CLIENT P.O. :	--
SAMPLED BY .....:	--	SAMPLE DATE ...:	05-04-00
SUBMITTED BY ....:	G.M.	SUBMITTAL DATE :	05-05-00
SAMPLE SOURCE ...:	HELSTF TBA POL INVESTIGAT	EXTRACTION DATE:	05-05-00
ANALYST .....:	F. Martinez	ANALYSIS DATE .:	05-15-00

TPH Gas by Mod 8015

DATA TABLE

Parameter	Result	Unit	Detection Limit
TPH Gas .....:	<20.	mg/Kg	20.

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ANALYTICAL REPORT

CLIENT MEVATEC CORPORATION
P.O. BOX 399, BLDG 126
WSMR, NM 88002

SAMPLE NO. : 20002004
INVOICE NO.: 22105666
REPORT DATE: 05-24-00
REVIEWED BY:

D A T A T A B L E (Cont.)

Surrogate Information -

	Percent Recovery	Range
1-ChloroOctane ..... :	90.8	37-130

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CLIENT MEWATEC CORPORATION
P.O. BOX 399, BLDG 126
WSMR, NM 88002

SAMPLE NO.: 20002005
INVOICE NO.: 22105666
REPORT DATE: 05-23-00
REVIEWED BY:
PAGE : 1 OF 2

CLIENT SAMPLE ID :	26030-SB02-(6.5-7.0)	AUTHORIZED BY :	G. Moon
SAMPLE TYPE .....:	Soil	CLIENT P.O. :	--
SAMPLED BY .....:	--	SAMPLE DATE ...:	05-04-00
SUBMITTED BY ....:	G.M.	SUBMITTAL DATE :	05-05-00
SAMPLE SOURCE ...:	HELSTF TBA POL INVESTIGAT	EXTRACTION DATE:	05-05-00
ANALYST .....:	F. Martinez	ANALYSIS DATE .:	05-16-00

TPH Gas by Mod 8015

DATA TABLE

Parameter	Result	Unit	Detection Limit
TPH Gas .....:	<20.	mg/Kg	20.

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ANALYTICAL REPORT

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P.O. BOX 399, BLDG 126
WSMR, NM 88002

SAMPLE NO. : 20002005
INVOICE NO.: 22105666
REPORT DATE: 05-23-00
REVIEWED BY:

D A T A T A B L E (Cont.)

Surrogate Information -

	Percent Recovery	Range
1-ChloroOctane ..... :	88.2	37-130

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ANALYTICAL REPORT

CLIENT MEWATEC CORPORATION
P.O. BOX 399, BLDG 126
WSMR, NM 88002

SAMPLE NO.: 20002006
INVOICE NO.: 22105666
REPORT DATE: 05-24-00
REVIEWED BY:

CLIENT SAMPLE ID : 26030-SB02-(11.5-12.0)
SAMPLE TYPE .....: Soil
SAMPLED BY .....: --
SUBMITTED BY ....: G.M.
SAMPLE SOURCE ...: HELSTF TBA POL INVESTIGAT
ANALYST .....: F. Martinez

AUTHORIZED BY : G. Moon
CLIENT P.O. : --
SAMPLE DATE ...: 05-04-00
SUBMITTAL DATE : 05-05-00
EXTRACTION DATE: 05-05-00
ANALYSIS DATE .: 05-16-00

TPH Gas by Mod 8015

DATA TABLE

Parameter	Result	Unit	Detection Limit
TPH Gas	<20.	mg/Kg	20.

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WSMR, NM 88002

SAMPLE NO. : 20002006
INVOICE NO.: 22105666
REPORT DATE: 05-24-00
REVIEWED BY:

D A T A T A B L E (Cont.)

Surrogate Information -

	Percent Recovery	Range
1-ChloroOctane ..... :	91.1	37-130

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CLIENT MEWATER CORPORATION
P.O. BOX 399, BLDG 126
WSMR, NM 88002

SAMPLE NO.: 20002007
INVOICE NO.: 22105666
REPORT DATE: 05-24-00
REVIEWED BY:
PAGE : 1 OF 2

CLIENT SAMPLE ID :	26030-SB02-(16.5 17.0)	AUTHORIZED BY :	G. Moon
SAMPLE TYPE .....:	Soil	CLIENT P.O. :	--
SAMPLED BY .....:	--	SAMPLE DATE ...:	05-04-00
SUBMITTED BY ....:	G.M.	SUBMITTAL DATE :	05-05-00
SAMPLE SOURCE ...:	HELSTF TBA POL INVESTIGAT	EXTRACTION DATE:	05-05-00
ANALYST .....:	F. Martinez	ANALYSIS DATE .:	05-16-00

TPH Gas by Mod 8015

DATA TABLE

Parameter	Result	Unit	Detection Limit
TPH Gas .....:	<20.	mg/Kg	20.

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ANALYTICAL REPORT

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P.O. BOX 399, BLDG 126
WSMR, NM 88002

SAMPLE NO. : 20002007
INVOICE NO.: 22105666
REPORT DATE: 05-24-00
REVIEWED BY:

D A T A T A B L E (Cont.)

Surrogate Information -

	Percent Recovery	Range
1-ChloroOctane ..... :	87.5	37-130

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CLIENT MEVATEC CORPORATION
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SAMPLE NO.: 20002008
INVOICE NO.: 22105666
REPORT DATE: 05-24-00
REVIEWED BY:
PAGE : 1 OF 2

CLIENT SAMPLE ID : 26030-SB02-(21.5-22.0)
SAMPLE TYPE .....: Soil
SAMPLED BY .....: --
SUBMITTED BY ....: G.M.
SAMPLE SOURCE ...: HELSTF TBA POL INVESTIGAT
ANALYST .....: F. Martinez

AUTHORIZED BY : G. Moon
CLIENT P.O. : --
SAMPLE DATE ...: 05-04-00
SUBMITTAL DATE : 05-05-00
EXTRACTION DATE: 05-05-00
ANALYSIS DATE .: 05-16-00

TPH Gas by Mod 8015

DATA TABLE

Parameter	Result	Unit	Detection Limit
TPH Gas .....:	16000	mg/Kg	1000

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SAMPLE NO. : 20002008
INVOICE NO.: 22105666
REPORT DATE: 05-24-00
REVIEWED BY:

D A T A T A B L E (Cont.)

Surrogate Information -

	Percent Recovery	Range
1-ChloroOctane ..... :	102.0	37-130

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ANALYTICAL REPORT

CLIENT MEVATEC CORPORATION
P.O. BOX 399, BLDG 126
WSMR, NM 88002

SAMPLE NO.: 20002009
INVOICE NO.: 22105666
REPORT DATE: 05-24-00
REVIEWED BY: K
PAGE : 1 OF 2

CLIENT SAMPLE ID : 26030-SB02-(26.5-27.0)
SAMPLE TYPE .....: Soil
SAMPLED BY .....: --
SUBMITTED BY ....: G.M.
SAMPLE SOURCE ...: HELSTF TBA POL INVESTIGAT
ANALYST .....: F. Martinez

AUTHORIZED BY : G. Moon
CLIENT P.O. : --
SAMPLE DATE ...: 05-04-00
SUBMITTAL DATE : 05-05-00
EXTRACTION DATE: 05-05-00
ANALYSIS DATE .: 05-16-00

TPH Gas by Mod 8015

DATA TABLE

Parameter	Result	Unit	Detection Limit
TPH Gas .....:	<20.	mg/Kg	20.

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WSMR, NM 88002

SAMPLE NO. : 20002009
INVOICE NO.: 22105666
REPORT DATE: 05-24-00
REVIEWED BY:

D A T A T A B L E (Cont.)

Surrogate Information -

	Percent Recovery	Range
1-ChloroOctane ..... :	90.9	37-130

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ANALYTICAL REPORT

CLIENT MEVATEC CORPORATION
P.O. BOX 399, BLDG 126
WSMR, NM 88002

SAMPLE NO.: 20002010
INVOICE NO.: 22105666
REPORT DATE: 05-24-00
REVIEWED BY:
PAGE : 1 OF 2

CLIENT SAMPLE ID : 26030-SB02-(31.5-32.0)
SAMPLE TYPE .....: Soil
SAMPLED BY .....: --
SUBMITTED BY ....: G.M.
SAMPLE SOURCE ...: HELSTF TBA POL INVESTIGAT
ANALYST .....: F. Martinez

AUTHORIZED BY : G. Moon
CLIENT P.O. : --
SAMPLE DATE ...: 05-04-00
SUBMITTAL DATE : 05-05-00
EXTRACTION DATE: 05-05-00
ANALYSIS DATE .: 05-16-00

TPH Gas by Mod 8015

DATA TABLE

Parameter	Result	Unit	Detection Limit
TPH Gas	<20.	mg/Kg	20.

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MANAGING DIRECTOR

ANALYTICAL REPORT

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WSMR, NM 88002

SAMPLE NO. : 20002010
INVOICE NO.: 22105666
REPORT DATE: 05-24-00
REVIEWED BY:

D A T A T A B L E (Cont.)

Surrogate Information -

	Percent Recovery	Range
1-ChloroOctane ..... :	94.4	37-130

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ANALYTICAL REPORT

CLIENT MEWATER CORPORATION
P.O. BOX 399, BLDG 126
WSMR, NM 88002

SAMPLE NO.: 20002004
INVOICE NO.: 22105666
REPORT DATE: 05-24-00
REVIEWED BY:
PAGE : 1 OF 2

CLIENT SAMPLE ID : 26030-SB02-(1.5-2.0)
SAMPLE TYPE .....: Soil
SAMPLED BY .....: --
SUBMITTED BY ....: G.M.
SAMPLE SOURCE ...: HELSTF TBA POL INVESTIGAT
ANALYST .....: F. Martinez

AUTHORIZED BY : G. Moon
CLIENT P.O. : --
SAMPLE DATE ...: 05-04-00
SUBMITTAL DATE : 05-05-00
EXTRACTION DATE: 05-05-00
ANALYSIS DATE .: 05-15-00

REMARKS -

BFB Surrogate was out of acceptance criteria in the Method Blank, and Spikes.

Petroleum Contaminants by 8021B

DATA TABLE

Parameter	Result	Unit	Detection Limit
Benzene .....:	<50.	ug/Kg	50.
Toluene .....:	<50.	ug/Kg	50.
Ethylbenzene .....:	<50.	ug/Kg	50.
Total Xylenes .....:	<50.	ug/Kg	50.
Methyl Tert-Butyl Ether .....:	<100	ug/Kg	100

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Karen Cesk
MANAGING DIRECTOR

ANALYTICAL REPORT

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WSMR, NM 88002

SAMPLE NO. : 20002004
INVOICE NO.: 22105666
REPORT DATE: 05-24-00
REVIEWED BY:

D A T A T A B L E (Cont.)

Surrogate Information -

	Percent Recovery	Range
aaa-Trifluorotoluene	100.0	76-114
4-Bromofluorobenzene	83.2	70-125

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CLIENT MEWBOURNE CORPORATION
P.O. BOX 399, BLDG 126
WSMR, NM 88002

SAMPLE NO.: 20002005
INVOICE NO.: 22105666
REPORT DATE: 05-23-00
REVIEWED BY:
PAGE : 1 OF 2

CLIENT SAMPLE ID : 26030-SB02-(6.5-7.0)
SAMPLE TYPE .....: Soil
SAMPLED BY .....: --
SUBMITTED BY ....: G.M.
SAMPLE SOURCE ...: HELSTF TBA POL INVESTIGAT
ANALYST .....: B. Murphy

AUTHORIZED BY : G. Moon
CLIENT P.O. : --
SAMPLE DATE ...: 05-04-00
SUBMITTAL DATE : 05-05-00
EXTRACTION DATE: 05-05-00
ANALYSIS DATE .: 05-15-00

REMARKS -

Laboratory Control Sample Duplicate was run outside of 12 hour analytical clock for MTBE.

Method 8260/5035 - Volatile Organics Soil

DATA TABLE

Parameter	Result	Unit	Detection Limit
MTBE	<50.	ug/Kg	50.
Benzene	<50.	ug/Kg	50.
Toluene	<50.	ug/Kg	50.
Ethylbenzene	<75.	ug/Kg	75.
m,p-Xylene	<175.	ug/Kg	175
o-Xylene	<75.	ug/Kg	75.

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SAMPLE NO. : 20002005
INVOICE NO.: 22105666
REPORT DATE: 05-23-00
REVIEWED BY:

D A T A T A B L E (Cont.)

Surrogate Information -

	Percent Recovery	Range
Dibromofluoromethane .....:	84.0	58-103
Toluene-d8 .....:	92.0	75-108
4-Bromofluorobenzene .....:	95.6	71-107

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El Paso, Texas 79922 915•585•3443 FAX 915•585•4944
E-Mail: lab@traceanalysis.com

ANALYTICAL REPORT

CLIENT MEVATEC CORPORATION
P.O. BOX 399, BLDG 126
WSMR, NM 88002

SAMPLE NO.: 20002006
INVOICE NO.: 22105666
REPORT DATE: 05-24-00
REVIEWED BY:
PAGE : 1 OF 2

CLIENT SAMPLE ID :	26030-SB02-(11.5-12.0)	AUTHORIZED BY :	G. Moon
SAMPLE TYPE .....:	Soil	CLIENT P.O. :	--
SAMPLED BY .....:	--	SAMPLE DATE ...:	05-04-00
SUBMITTED BY ....:	G.M.	SUBMITTAL DATE :	05-05-00
SAMPLE SOURCE ...:	HELSTF TBA POL INVESTIGAT	EXTRACTION DATE:	05-05-00
ANALYST .....:	B. Murphy	ANALYSIS DATE .:	05-15-00

REMARKS -

Laboratory Control Sample Duplicate was run outside of 12 hour analytical clock for MTBE.

Method 8260/5035 - Volatile Organics Soil

DATA TABLE

Parameter	Result	Unit	Detection Limit
MTBE .....:	<50.	ug/Kg	50.
Benzene .....:	<50.	ug/Kg	50.
Toluene .....:	<50.	ug/Kg	50.
Ethylbenzene .....:	<75.	ug/Kg	75.
m,p-Xylene .....:	<175.	ug/Kg	175.
o-Xylene .....:	<75.	ug/Kg	75.

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MANAGING DIRECTOR

ANALYTICAL REPORT

CLIENT MEVATEC CORPORATION
P.O. BOX 399, BLDG 126
WSMR, NM 88002

SAMPLE NO. : 20002006
INVOICE NO.: 22105666
REPORT DATE: 05-24-00
REVIEWED BY:

D A T A T A B L E (Cont.)

Surrogate Information -

	Percent Recovery	Range
Dibromofluoromethane	89.2	58-103
Toluene-d8	95.8	75-108
4-Bromofluorobenzene	95.0	71-107

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ANALYTICAL REPORT

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WSMR, NM 88002

SAMPLE NO.: 20002007
INVOICE NO.: 22105666
REPORT DATE: 05-24-00
REVIEWED BY:
PAGE : 1 OF 2

CLIENT SAMPLE ID :	26030-SB02-(16.5 17.0)	AUTHORIZED BY :	G. Moon
SAMPLE TYPE .....:	Soil	CLIENT P.O. :	--
SAMPLED BY .....:	--	SAMPLE DATE ...:	05-04-00
SUBMITTED BY ....:	G.M.	SUBMITTAL DATE :	05-05-00
SAMPLE SOURCE ...:	HELSTF TBA POL INVESTIGAT	EXTRACTION DATE:	05-05-00
ANALYST .....:	B. Murphy	ANALYSIS DATE .:	05-15-00

REMARKS -

Laboratory Control Sample Duplicate was run outside of 12 hour analytical clock for MTBE.

Method 8260/5035 - Volatile Organics Soil

DATA TABLE

Parameter	Result	Unit	Detection Limit
MTBE	<50.	ug/Kg	50
Benzene	<50.	ug/Kg	50.
Toluene	<50.	ug/Kg	50.
Ethylbenzene	<75.	ug/Kg	75.
m,p-Xylene	<175.	ug/Kg	175
o-Xylene	<75.	ug/Kg	75.

ANALYTICAL RESULTS REPORTED HEREIN APPLY ONLY TO THE SAMPLE(S) TESTED. FURTHERMORE, THIS REPORT CAN ONLY BE COPIED IN ITS ENTIRETY

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ANALYTICAL REPORT

CLIENT MEVATEC CORPORATION
P.O. BOX 399, BLDG 126
WSMR, NM 88002

SAMPLE NO. : 20002007
INVOICE NO.: 22105666
REPORT DATE: 05-24-00
REVIEWED BY:
PAGE : 2 OF 2

D A T A T A B L E (Cont.)

Surrogate Information -

	Percent Recovery	Range
Dibromofluoromethane .....:	90.4	58-103
Toluene-d8 .....:	97.8	75-108
4-Bromofluorobenzene .....:	99.2	71-107

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ANALYTICAL REPORT

CLIENT MEWBOURNE OIL CORPORATION
P.O. BOX 399, BLDG 126
WSMR, NM 88002

SAMPLE NO.: 20002008
INVOICE NO.: 22105666
REPORT DATE: 05-24-00
REVIEWED BY:
PAGE : 1 OF 2

CLIENT SAMPLE ID :	26030-SB02-(21.5-22.0)	AUTHORIZED BY :	G. Moon
SAMPLE TYPE .....:	Soil	CLIENT P.O. :	--
SAMPLED BY .....:	--	SAMPLE DATE ...:	05-04-00
SUBMITTED BY ....:	G.M.	SUBMITTAL DATE :	05-05-00
SAMPLE SOURCE ...:	HELSTF TBA POL INVESTIGAT	EXTRACTION DATE:	05-05-00
ANALYST .....:	B. Murphy	ANALYSIS DATE .:	05-15-00

REMARKS -

Laboratory Control Sample Duplicate was run outside of 12 hour analytical clock for MTBE. Detection limits raised due to dilution.

Method 8260/5035 - Volatile Organics Soil

DATA TABLE

Parameter	Result	Unit	Detection Limit
MTBE .....:	<10.	mg/Kg	10.
Benzene .....:	180	mg/Kg	10.
Toluene .....:	1300.	mg/Kg	10.
Ethylbenzene .....:	490	mg/Kg	15.
m,p-Xylene .....:	1100	mg/Kg	35.
o-Xylene .....:	430	mg/Kg	15.

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MANAGING DIRECTOR

ANALYTICAL REPORT

CLIENT MEVATEC CORPORATION
P.O. BOX 399, BLDG 126
WSMR, NM 88002

SAMPLE NO. : 20002008
INVOICE NO.: 22105666
REPORT DATE: 05-24-00
REVIEWED BY:

D A T A T A B L E (Cont.)

Surrogate Information -

	Percent Recovery	Range
Dibromofluoromethane .....:	93.4	58-103
Toluene-d8 .....:	95.2	75-108
4-Bromofluorobenzene .....:	92.8	71-107

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ANALYTICAL REPORT

CLIENT MEVATEC CORPORATION
P.O. BOX 399, BLDG 126
WSMR, NM 88002

SAMPLE NO.: 20002009
INVOICE NO.: 22105666
REPORT DATE: 05-24-00
REVIEWED BY:
PAGE : 1 OF 2

CLIENT SAMPLE ID : 26030-SB02-(26.5-27.0)
SAMPLE TYPE .....: Soil
SAMPLED BY .....: --
SUBMITTED BY ....: G.M.
SAMPLE SOURCE ...: HELSTF TBA POL INVESTIGAT
ANALYST .....: B. Murphy

AUTHORIZED BY : G. Moon
CLIENT P.O. : --
SAMPLE DATE ...: 05-04-00
SUBMITTAL DATE : 05-05-00
EXTRACTION DATE: 05-05-00
ANALYSIS DATE .: 05-15-00

REMARKS -

Laboratory Control Sample Duplicate was run outside of 12 hour analytical clock for MTBE.

Method 8260/5035 - Volatile Organics Soil

DATA TABLE

Parameter	Result	Unit	Detection Limit
MTBE	<50.	ug/Kg	50
Benzene	<50.	ug/Kg	50.
Toluene	140	ug/Kg	50.
Ethylbenzene	<75.	ug/Kg	75.
m,p-Xylene	<175.	ug/Kg	175
o-Xylene	<75.	ug/Kg	75.

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ANALYTICAL REPORT

CLIENT MEVATEC CORPORATION
P.O. BOX 399, BLDG 126
WSMR, NM 88002

SAMPLE NO. : 20002009
INVOICE NO.: 22105666
REPORT DATE: 05-24-00
REVIEWED BY:

D A T A T A B L E (Cont.)

Surrogate Information -

	Percent Recovery	Range
Dibromofluoromethane .....:	90.4	58-103
Toluene-d8 .....:	98.0	75-108
4-Bromofluorobenzene .....:	98.6	71-107

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CLIENT MEWATER CORPORATION
P.O. BOX 399, BLDG 126
WSMR, NM 88002

SAMPLE NO.: 20002010
INVOICE NO.: 22105666
REPORT DATE: 05-24-00
REVIEWED BY:
PAGE : 1 OF 2

CLIENT SAMPLE ID : 26030-SB02-(31.5-32.0)
SAMPLE TYPE .....: Soil
SAMPLED BY .....: --
SUBMITTED BY ....: G.M.
SAMPLE SOURCE ...: HELSTF TBA POL INVESTIGAT
ANALYST .....: B. Murphy

AUTHORIZED BY : G. Moon
CLIENT P.O. : --
SAMPLE DATE ...: 05-04-00
SUBMITTAL DATE : 05-05-00
EXTRACTION DATE: 05-05-00
ANALYSIS DATE .: 05-15-00

REMARKS -

Laboratory Control Sample Duplicate was run outside of 12 hour analytical clock for MTBE.

Method 8260/5035 - Volatile Organics Soil

DATA TABLE

Parameter	Result	Unit	Detection Limit
MTBE	<50.	ug/Kg	50
Benzene	<50.	ug/Kg	50.
Toluene	<50.	ug/Kg	50.
Ethylbenzene	<75.	ug/Kg	75.
m,p-Xylene	<175.	ug/Kg	175
o-Xylene	<75.	ug/Kg	75.

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Karen Cook
MANAGING DIRECTOR

ANALYTICAL REPORT

CLIENT MEVATEC CORPORATION
P.O. BOX 399, BLDG 126
WSMR, NM 88002

SAMPLE NO. : 20002010
INVOICE NO.: 22105666
REPORT DATE: 05-24-00
REVIEWED BY:

D A T A T A B L E (Cont.)

Surrogate Information -

	Percent Recovery	Range
Dibromofluoromethane .....:	87.6	58-103
Toluene-d8 .....:	95.6	75-108
4-Bromofluorobenzene .....:	98.4	71-107

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ANALYTICAL REPORT

CLIENT MEWBOURNE CORPORATION
P.O. BOX 399, BLDG 126
WSMR, NM 88002

SAMPLE NO.: 20001938
INVOICE NO.: 22105658
REPORT DATE: 05-23-00
REVIEWED BY:
PAGE : 1 OF 2

CLIENT SAMPLE ID : 2603-5B03-(1.5-2.0)
SAMPLE TYPE .....: Soil
SAMPLED BY .....: --
SUBMITTED BY ....: G.M.
SAMPLE SOURCE ...: HELSTF TSA POL
ANALYST .....: F. Martinez

AUTHORIZED BY : G. Moon
CLIENT P.O. : --
SAMPLE DATE ...: 05-03-00
SUBMITTAL DATE : 05-04-00
EXTRACTION DATE: 05-05-00
ANALYSIS DATE .: 05-17-00

TPH Gas by Mod 8015

DATA TABLE

Parameter	Result	Unit	Detection Limit
TPH Gas ..... :	<20.	mg/Kg	20.

ANALYTICAL RESULT(S) REPORTED HEREIN APPLY ONLY TO THE SAMPLE(S) TESTED. FURTHERMORE, THIS REPORT CAN ONLY BE COPIED IN ITS ENTIRETY.

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ANALYTICAL REPORT

CLIENT MEVATEC CORPORATION
P.O. BOX 399, BLDG 126
WSMR, NM 88002

SAMPLE NO. : 20001938
INVOICE NO.: 22105658
REPORT DATE: 05-23-00
REVIEWED BY:

D A T A T A B L E (Cont.)

Surrogate Information -

	Percent Recovery	Range
1-ChloroOctane ..... :	102.0	37-130

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ANALYTICAL REPORT

CLIENT MEWATER CORPORATION
P.O. BOX 399, BLDG 126
WSMR, NM 88002

SAMPLE NO.: 20001939
INVOICE NO.: 22105658
REPORT DATE: 05-23-00
REVIEWED BY:
PAGE : 1 OF 2

CLIENT SAMPLE ID : 2603-5B03-(6.5-7.0)
SAMPLE TYPE .....: Soil
SAMPLED BY .....: --
SUBMITTED BY ....: G.M.
SAMPLE SOURCE ...: HELSTF TSA POL
ANALYST .....: F. Martinez

AUTHORIZED BY : G. Moon
CLIENT P.O. : --
SAMPLE DATE ...: 05-03-00
SUBMITTAL DATE : 05-04-00
EXTRACTION DATE: 05-05-00
ANALYSIS DATE .: 05-17-00

TPH Gas by Mod 8015

DATA TABLE

Parameter	Result	Unit	Detection Limit
TPH Gas .....:	<20.	mg/Kg	20.

ANALYTICAL RESULT(S) REPORTED HEREIN APPLY ONLY TO THE SAMPLE(S) TESTED. FURTHERMORE, THIS REPORT CAN ONLY BE COPIED IN ITS ENTIRETY.

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SAMPLE NO. : 20001939
INVOICE NO.: 22105658
REPORT DATE: 05-23-00
REVIEWED BY:

D A T A T A B L E (Cont.)

Surrogate Information -

	Percent Recovery	Range
1-ChloroOctane ..... :	95.8	37-130

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CLIENT MEWATEC CORPORATION
P.O. BOX 399, BLDG 126
WSMR, NM 88002

SAMPLE NO.: 20001940
INVOICE NO.: 22105658
REPORT DATE: 05-23-00
REVIEWED BY:
PAGE : 1 OF 2

CLIENT SAMPLE ID : 2603-5B03-(11.5-12.0)
SAMPLE TYPE .....: Soil
SAMPLED BY .....: --
SUBMITTED BY ....: G.M.
SAMPLE SOURCE ...: HELSTF TSA POL
ANALYST .....: F. Martinez

AUTHORIZED BY : G. Moon
CLIENT P.O. : --
SAMPLE DATE ...: 05-03-00
SUBMITTAL DATE : 05-04-00
EXTRACTION DATE: 05-05-00
ANALYSIS DATE .: 05-17-00

TPH Gas by Mod 8015

DATA TABLE

Parameter	Result	Unit	Detection Limit
TPH Gas .....:	<20.	mg/Kg	20.

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ANALYTICAL REPORT

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WSMR, NM 88002

SAMPLE NO. : 20001940
INVOICE NO.: 22105658
REPORT DATE: 05-23-00
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D A T A T A B L E (Cont.)

Surrogate Information -

	Percent Recovery	Range
1-ChloroOctane ..... :	94.7	37-130

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CLIENT MEWATEC CORPORATION
P.O. BOX 399, BLDG 126
WSMR, NM 88002

SAMPLE NO.: 20001941
INVOICE NO.: 22105658
REPORT DATE: 05-23-00
REVIEWED BY: le
PAGE : 1 OF 2

CLIENT SAMPLE ID : 2603-5B03-(16.5-17.0)
SAMPLE TYPE .....: Soil
SAMPLED BY .....: --
SUBMITTED BY ....: G.M.
SAMPLE SOURCE ...: HELSTF TSA POL
ANALYST .....: F. Martinez

AUTHORIZED BY : G. Moon
CLIENT P.O. : --
SAMPLE DATE ...: 05-03-00
SUBMITTAL DATE : 05-04-00
EXTRACTION DATE: 05-05-00
ANALYSIS DATE .: 05-17-00

TPH Gas by Mod 8015

DATA TABLE

Parameter	Result	Unit	Detection Limit
TPH Gas	<20.	mg/Kg	20.

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SAMPLE NO. : 20001941
INVOICE NO.: 22105658
REPORT DATE: 05-23-00
REVIEWED BY:

D A T A T A B L E (Cont.)

Surrogate Information -

	Percent Recovery	Range
1-ChloroOctane ..... :	90.5	37-130

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CLIENT MEWATER CORPORATION
P.O. BOX 399, BLDG 126
WSMR, NM 88002

SAMPLE NO.: 20001942
INVOICE NO.: 22105658
REPORT DATE: 05-23-00
REVIEWED BY:
PAGE : 1 OF 2

CLIENT SAMPLE ID : 2603-5B03-(21.5-22.0)
SAMPLE TYPE .....: Soil
SAMPLED BY .....: --
SUBMITTED BY ....: G.M.
SAMPLE SOURCE ...: HELSTF TSA POL
ANALYST .....: F. Martinez

AUTHORIZED BY : G. Moon
CLIENT P.O. : --
SAMPLE DATE ...: 05-03-00
SUBMITTAL DATE : 05-04-00
EXTRACTION DATE: 05-05-00
ANALYSIS DATE .: 05-17-00

TPH Gas by Mod 8015

DATA TABLE

Parameter	Result	Unit	Detection Limit
TPH Gas .....:	<20.	mg/Kg	20.

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CLIENT MEVATEC CORPORATION
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WSMR, NM 88002

SAMPLE NO. : 20001942
INVOICE NO.: 22105658
REPORT DATE: 05-23-00
REVIEWED BY:

D A T A T A B L E (Cont.)

Surrogate Information -

	Percent Recovery	Range
1-ChloroOctane ..... :	91.2	37-130

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CLIENT MEVATEC CORPORATION
P.O. BOX 399, BLDG 126
WSMR, NM 88002

SAMPLE NO.: 20001943
INVOICE NO.: 22105658
REPORT DATE: 05-23-00
REVIEWED BY:
PAGE : 1 OF 2

CLIENT SAMPLE ID :	2603-5B03-(26.5-27.0)	AUTHORIZED BY :	G. Moon
SAMPLE TYPE .....:	Soil	CLIENT P.O. :	--
SAMPLED BY .....:	--	SAMPLE DATE ...:	05-03-00
SUBMITTED BY ....:	G.M.	SUBMITTAL DATE :	05-04-00
SAMPLE SOURCE ...:	HELSTF TSA POL	EXTRACTION DATE:	05-05-00
ANALYST .....:	F. Martinez	ANALYSIS DATE .:	05-17-00

TPH Gas by Mod 8015

DATA TABLE

Parameter	Result	Unit	Detection Limit
TPH Gas .....:	<20.	mg/Kg	20.

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MANAGING DIRECTOR

ANALYTICAL REPORT

CLIENT MEVATEC CORPORATION
P.O. BOX 399, BLDG 126
WSMR, NM 88002

SAMPLE NO. : 20001943
INVOICE NO.: 22105658
REPORT DATE: 05-23-00
REVIEWED BY:

D A T A T A B L E (Cont.)

Surrogate Information -

	Percent Recovery	Range
1-ChloroOctane ..... :	98.6	37-130

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CLIENT MEVATEC CORPORATION
P.O. BOX 399, BLDG 126
WSMR, NM 88002

SAMPLE NO.: 20001944
INVOICE NO.: 22105658
REPORT DATE: 05-23-00
REVIEWED BY:
PAGE : 1 OF 2

CLIENT SAMPLE ID : 2603-5B03-(31.5-32.0)
SAMPLE TYPE .....: Soil
SAMPLED BY .....: --
SUBMITTED BY ....: G.M.
SAMPLE SOURCE ...: HELSTF TSA POL
ANALYST .....: F. Martinez

AUTHORIZED BY : G. Moon
CLIENT P.O. : --
SAMPLE DATE ...: 05-03-00
SUBMITTAL DATE : 05-04-00
EXTRACTION DATE: 05-05-00
ANALYSIS DATE .: 05-17-00

TPH Gas by Mod 8015

DATA TABLE

Parameter	Result	Unit	Detection Limit
TPH Gas .....:	<20.	mg/Kg	20.

ANALYTICAL RESULT(S) REPORTED HEREIN APPLY ONLY TO THE SAMPLE(S) TESTED. FURTHERMORE, THIS REPORT CAN ONLY BE COPIED IN ITS ENTIRETY

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MANAGING DIRECTOR

ANALYTICAL REPORT

CLIENT MEVATEC CORPORATION
P.O. BOX 399, BLDG 126
WSMR, NM 88002

SAMPLE NO. : 20001944
INVOICE NO.: 22105658
REPORT DATE: 05-23-00
REVIEWED BY:

D A T A T A B L E (Cont.)

Surrogate Information -

	Percent Recovery	Range
1-ChloroOctane ..... :	94.5	37-130

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ANALYTICAL REPORT

CLIENT MEVATEC CORPORATION
P.O. BOX 399, BLDG 126
WSMR, NM 88002

SAMPLE NO.: 20001938
INVOICE NO.: 22105658
REPORT DATE: 05-23-00
REVIEWED BY:
PAGE : 1 OF 2

CLIENT SAMPLE ID : 2603-5B03-(1.5-2.0)
SAMPLE TYPE .....: Soil
SAMPLED BY .....: --
SUBMITTED BY ....: G.M.
SAMPLE SOURCE ...: HELSTF TSA POL
ANALYST .....: F. Martinez

AUTHORIZED BY : G. Moon
CLIENT P.O. : --
SAMPLE DATE ...: 05-03-00
SUBMITTAL DATE : 05-04-00
EXTRACTION DATE: 05-05-00
ANALYSIS DATE .: 05-15-00

REMARKS -

BFB Surrogate was out of acceptance criteria in the Sample, Method Blank, and Spikes.

Petroleum Contaminants by 8021B

DATA TABLE

Parameter	Result	Unit	Detection Limit
Benzene .....:	<50.	ug/Kg	50.
Toluene .....:	<50.	ug/Kg	50.
Ethylbenzene .....:	<50.	ug/Kg	50.
Total Xylenes .....:	<50.	ug/Kg	50.
Methyl Tert-Butyl Ether .....:	<100.	ug/Kg	100.

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ANALYTICAL REPORT

CLIENT MEVATEC CORPORATION
P.O. BOX 399, BLDG 126
WSMR, NM 88002

SAMPLE NO. : 20001 8
INVOICE NO.: 22105658
REPORT DATE: 05-23-00
REVIEWED BY:
PAGE : 2 OF 2

D A T A T A B L E (Cont.)

Surrogate Information -

	Percent Recovery	Range
aaa Trifluorotoluene .....:	107.0	76-114
4-Bromoflurobenzene .....:	11.7	70-125

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E-Mail: lab@traceanalysis.com

CLIENT MEWATER CORPORATION
P.O. BOX 399
BLDG. 126
WSMR, NM. 88002

SAMPLE NO.: 20001939
INVOICE NO.: 22105658
REPORT DATE: 05-23-00
REVIEWED BY:
PAGE : 1 OF 2

CLIENT SAMPLE ID : 2603-5B03-(6.5-7.0)
SAMPLE TYPE .....: Soil
SAMPLED BY .....: --
SUBMITTED BY ....: G.M.
SAMPLE SOURCE ...: HELSTF TSA POL
ANALYST .....: F. Martinez

AUTHORIZED BY : G.W.
CLIENT P.O. : --
SAMPLE DATE ...: 05-03-00
SUBMITTAL DATE : 05-04-00
EXTRACTION DATE: 05-05-00
ANALYSIS DATE .: 05-13-00

REMARKS -

Continuing Calibration Verification Standard recoveries for Benzene were out of acceptance criteria by 2%.
BFB Surrogate was out of acceptance criteria in the Sample, Method Blank, and Spikes.

Petroleum Contaminants by 8021B

DATA TABLE

Parameter	Result	Unit	Detection Limit
Benzene .....:	<50.	ug/Kg	50.
Toluene .....:	<50.	ug/Kg	50.
Ethylbenzene .....:	<50.	ug/Kg	50.
Total Xylenes .....:	<50.	ug/Kg	50.
Methyl Tert-Butyl Ether .....:	<100	ug/Kg	100

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MANAGING DIRECTOR

ANALYTICAL REPORT

CLIENT MEVATEC CORPORATION
P.O. BOX 399
BLDG. 126
WSMR, NM. 88002

SAMPLE NO. : 20001939
INVOICE NO.: 22105658
REPORT DATE: 05-23-00
REVIEWED BY:

D A T A T A B L E (Cont.)

Surrogate Information -

	Percent Recovery	Range
aaa-Trifluorotoluene .....:	98.6	76-115
4-Bromofluorobenzene .....:	16.2	70-126

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CLIENT MEVATEC CORPORATION
P.O. BOX 399
BLDG. 126
WSMR, NM. 88002

SAMPLE NO.: 20001940
INVOICE NO.: 22105658
REPORT DATE: 05-23-00
REVIEWED BY:
PAGE : 1 OF 2

CLIENT SAMPLE ID : 2603-5B03-(11.5-12.0)
SAMPLE TYPE .....: Soil
SAMPLED BY .....: --
SUBMITTED BY ....: G.M.
SAMPLE SOURCE ...: HELSTF TSA POL
ANALYST .....: F. Martinez

AUTHORIZED BY : G.W.
CLIENT P.O. : --
SAMPLE DATE ...: 05-03-00
SUBMITTAL DATE : 05-04-00
EXTRACTION DATE: 05-05-00
ANALYSIS DATE .: 05-13-00

REMARKS -

Continuing Calibration Verification Standard recoveries for Benzene were out of acceptance criteria by 2%.
BFB Surrogate was out of acceptance criteria in the Sample, Method Blank, and Spikes.

Petroleum Contaminants by 8021B

DATA TABLE

Parameter	Result	Unit	Detection Limit
Benzene .....:	<50.	ug/Kg	50.
Toluene .....:	<50.	ug/Kg	50.
Ethylbenzene .....:	<50.	ug/Kg	50.
Total Xylenes .....:	<50.	ug/Kg	50.
Methyl Tert-Butyl Ether .....:	<100	ug/Kg	100

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Karen Cesff
MANAGING DIRECTOR

ANALYTICAL REPORT

CLIENT MEVATEC CORPORATION
P.O. BOX 399
BLDG. 126
WSMR, NM. 88002

SAMPLE NO. : 20001940
INVOICE NO.: 22105658
REPORT DATE: 05-23-00
REVIEWED BY:

D A T A T A B L E (Cont.)

Surrogate Information -

	Percent Recovery	Range
aaa-Trifluorotoluene .....:	98.3	76-115
4-Bromofluorobenzene .....:	15.8	70-126

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E-Mail: lab@traceanalysis.com

ANALYTICAL REPORT

CLIENT MEVATEC CORPORATION
P.O. BOX 399
BLDG. 126
WSMR, NM. 88002

SAMPLE NO.: 20001941
INVOICE NO.: 22105658
REPORT DATE: 05-23-00
REVIEWED BY:
PAGE : 1 OF 2

CLIENT SAMPLE ID : 2603-5B03-(16.5-17.0)
SAMPLE TYPE .....: Soil
SAMPLED BY .....: --
SUBMITTED BY ....: G.M.
SAMPLE SOURCE ...: HELSTF TSA POL
ANALYST .....: F. Martinez

AUTHORIZED BY : G.W.
CLIENT P.O. : --
SAMPLE DATE ...: 05-03-00
SUBMITTAL DATE : 05-04-00
EXTRACTION DATE: 05-05-00
ANALYSIS DATE .: 05-13-00

REMARKS -

Continuing Calibration Verification Standard recoveries for Benzene were out of acceptance criteria by <2%.
BFB Surrogate was out of acceptance criteria in the Sample, Method Blank, and Spikes.

Petroleum Contaminants by 8021B

DATA TABLE

Parameter	Result	Unit	Detection Limit
Benzene .....:	<50.	ug/Kg	50.
Toluene .....:	<50.	ug/Kg	50.
Ethylbenzene .....:	<50.	ug/Kg	50.
Total Xylenes .....:	<50.	ug/Kg	50.
Methyl Tert-Butyl Ether .....:	<100	ug/Kg	100

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ANALYTICAL REPORT

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BLDG. 126
WSMR, NM. 88002

SAMPLE NO. : 20001941
INVOICE NO.: 22105658
REPORT DATE: 05-23-00
REVIEWED BY:

D A T A T A B L E (Cont.)

Surrogate Information -

	Percent Recovery	Range
aaa-Trifluorotoluene .....:	97.7	76-115
4-Bromofluorobenzene .....:	14.4	70-126

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CLIENT MEVATEC CORPORATION
P.O. BOX 399
BLDG. 126
WSMR, NM. 88002

SAMPLE NO.: 20001942
INVOICE NO.: 22105658
REPORT DATE: 05-23-00
REVIEWED BY:
PAGE : 1 OF 2

CLIENT SAMPLE ID : 2603-5B03-(21.5-22.0)
SAMPLE TYPE .....: Soil
SAMPLED BY .....: --
SUBMITTED BY ....: G.M.
SAMPLE SOURCE ...: HELSTF TSA POL
ANALYST .....: F. Martinez

AUTHORIZED BY : G.W.
CLIENT P.O. : --
SAMPLE DATE ...: 05-03-00
SUBMITTAL DATE : 05-04-00
EXTRACTION DATE: 05-05-00
ANALYSIS DATE .: 05-13-00

REMARKS -

Continuing Calibration Verification Standard recoveries for Benzene were out of acceptance criteria by <2%.
BFB Surrogate was out of acceptance criteria in the Sample, Method Blank, and Spikes.

Petroleum Contaminants by 8021B

DATA TABLE

Parameter	Result	Unit	Detection Limit
Benzene .....:	<50.	ug/Kg	50.
Toluene .....:	67.	ug/Kg	50.
Ethylbenzene .....:	<50.	ug/Kg	50.
Total Xylenes .....:	<50.	ug/Kg	50.
Methyl Tert-Butyl Ether .....:	<100	ug/Kg	100

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ANALYTICAL REPORT

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SAMPLE NO. : 20001942
INVOICE NO.: 22105658
REPORT DATE: 05-23-00
REVIEWED BY:

D A T A T A B L E (Cont.)

Surrogate Information -

	Percent Recovery	Range
aaa-Trifluorotoluene .....:	98.1	76-115
4-Bromofluorobenzene .....:	16.9	70-126

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CLIENT MEVATEC CORPORATION
P.O. BOX 399
BLDG. 126
WSMR, NM. 88002

SAMPLE NO. 20001943
INVOICE NO.: 22105658
REPORT DATE: 05-23-00
REVIEWED BY:
PAGE : 1 OF 2

CLIENT SAMPLE ID : 2603-5B03-(26.5-27.0)
SAMPLE TYPE .....: Soil
SAMPLED BY .....: --
SUBMITTED BY ....: G.M.
SAMPLE SOURCE ...: HELSTF TSA POL
ANALYST .....: F. Martinez

AUTHORIZED BY : G.W.
CLIENT P.O. : --
SAMPLE DATE ...: 05-03-00
SUBMITTAL DATE : 05-04-00
EXTRACTION DATE: 05-05-00
ANALYSIS DATE .: 05-13-00

REMARKS -

BFB Surrogate was out of acceptance criteria in the Sample, Method Blank, and Spikes.

Petroleum Contaminants by 8021B

DATA TABLE

Parameter	Result	Unit	Detection Limit
Benzene	<50.	ug/Kg	50.
Toluene	<50.	ug/Kg	50.
Ethylbenzene	<50.	ug/Kg	50.
Total Xylenes	<50.	ug/Kg	50.
Methyl Tert-Butyl Ether	<100	ug/Kg	100

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BLDG. 126
WSMR, NM. 88002

SAMPLE NO. : 20001943
INVOICE NO.: 22105658
REPORT DATE: 05-23-00
REVIEWED BY:
PAGE : 2 OF 2

D A T A T A B L E (Cont.)

Surrogate Information -

	Percent Recovery	Range
aaa-Trifluorotoluene .....:	100.0	76-115
4-Bromofluorobenzene .....:	15.1	70-126

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ANALYTICAL REPORT

CLIENT MEWATER CORPORATION
P.O. BOX 399
BLDG. 126
WSMR, NM. 88002

SAMPLE NO.: 20001944
INVOICE NO.: 22105658
REPORT DATE: 05-23-00
REVIEWED BY:
PAGE : 1 OF 2

CLIENT SAMPLE ID : 2603-5B03-(31.5-32.0)
SAMPLE TYPE .....: Soil
SAMPLED BY .....: --
SUBMITTED BY ....: G.M.
SAMPLE SOURCE ...: HELSTF TSA POL
ANALYST .....: F. Martinez

AUTHORIZED BY : G.W.
CLIENT P.O. : --
SAMPLE DATE ...: 05-03-00
SUBMITTAL DATE : 05-04-00
EXTRACTION DATE: 05-05-00
ANALYSIS DATE .: 05-13-00

REMARKS -

BFB Surrogate was out of acceptance criteria in the Sample, Method Blank, and Spikes.

Petroleum Contaminants by 8021B

DATA TABLE

Parameter	Result	Unit	Detection Limit
Benzene	<50.	ug/Kg	50.
Toluene	<50.	ug/Kg	50.
Ethylbenzene	<50.	ug/Kg	50.
Total Xylenes	<50.	ug/Kg	50.
Methyl Tert-Butyl Ether	<100	ug/Kg	100

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SAMPLE NO. : 20001944
INVOICE NO.: 22105658
REPORT DATE: 05-23-00
REVIEWED BY:

D A T A T A B L E (Cont.)

Surrogate Information -

	Percent Recovery	Range
aaa-Trifluorotoluene .....:	102.0	76-115
4-Bromofluorobenzene .....:	15.6	70-126

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CLIENT MEWATEC CORPORATION
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WSMR, NM 88002

SAMPLE NO.: 20001945
INVOICE NO.: 22105658
REPORT DATE: 05-23-00
REVIEWED BY:
PAGE : 1 OF 2

CLIENT SAMPLE ID : 2603-5B04-(1.5-2.0)
SAMPLE TYPE .....: Soil
SAMPLED BY .....: --
SUBMITTED BY ....: G.M.
SAMPLE SOURCE ...: HELSTF TSA POL
ANALYST .....: F. Martinez

AUTHORIZED BY : G. Moon
CLIENT P.O. : --
SAMPLE DATE ...: 05-03-00
SUBMITTAL DATE : 05-04-00
EXTRACTION DATE: 05-05-00
ANALYSIS DATE .: 05-14-00

REMARKS -

Opening Calibration Verification standard was out of acceptance criteria.

TPH Gas by Mod 8015

DATA TABLE

Parameter	Result	Unit	Detection Limit
TPH Gas .....:	<20.	mg/Kg	20.

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SAMPLE NO. : 20001945
INVOICE NO.: 22105658
REPORT DATE: 05-23-00
REVIEWED BY:

D A T A T A B L E (Cont.)

Surrogate Information -

	Percent Recovery	Range
1-ChloroOctane ..... :	74.9	37-130

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SAMPLE NO.: 20001946
INVOICE NO.: 22105658
REPORT DATE: 05-23-00
REVIEWED BY:
PAGE : 1 OF 2

AUTHORIZED BY : G. Moon
CLIENT P.O. : --
SAMPLE DATE ...: 05-03-00
SUBMITTAL DATE : 05-04-00
EXTRACTION DATE: 05-05-00
ANALYSIS DATE .: 05-14-00

d was out of acceptance

15

B L E

	Unit	Detection Limit
.	mg/Kg	20.

ANALYTICAL RESULTS REPORTED HEREIN APPLY ONLY TO THE SAMPLE(S) TESTED. FURTHERMORE, THIS REPORT CAN ONLY BE COPIED IN ITS ENTIRETY

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ANALYTICAL REPORT

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WSMR, NM 88002

SAMPLE NO. : 20001946
INVOICE NO.: 22105658
REPORT DATE: 05-23-00
REVIEWED BY:

D A T A T A B L E (Cont.)

Surrogate Information -

	Percent Recovery	Range
1-ChloroOctane ..... :	71.8	37-130

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CLIENT MEWATER CORPORATION
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WSMR, NM 88002

SAMPLE NO.: 20001947
INVOICE NO.: 22105658
REPORT DATE: 05-23-00
REVIEWED BY:
PAGE : 1 OF 2

CLIENT SAMPLE ID : 2603-5B04-(11.5-12.0)
SAMPLE TYPE .....: Soil
SAMPLED BY .....: --
SUBMITTED BY ....: G.M.
SAMPLE SOURCE ...: HELSTF TSA POL
ANALYST .....: F. Martinez

AUTHORIZED BY : G. Moon
CLIENT P.O. : --
SAMPLE DATE ...: 05-03-00
SUBMITTAL DATE : 05-04-00
EXTRACTION DATE: 05-05-00
ANALYSIS DATE .: 05-14-00

REMARKS -

Opening Calibration Verification standard was out of acceptance criteria.

TPH Gas by Mod 8015

DATA TABLE

Parameter	Result	Unit	Detection Limit
TPH Gas .....:	<20.	mg/Kg	20.

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WSMR, NM 88002

SAMPLE NO. : 20001947
INVOICE NO.: 22105658
REPORT DATE: 05-23-00
REVIEWED BY:

D A T A T A B L E (Cont.)

Surrogate Information -

	Percent Recovery	Range
1-ChloroOctane ..... :	73.8	37-130

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CLIENT MEVATEC CORPORATION
P.O. BOX 399, BLDG 126
WSMR, NM 88002

SAMPLE NO.: 20001948
INVOICE NO.: 22105658
REPORT DATE: 05-23-00
REVIEWED BY:
PAGE : 1 OF 2

CLIENT SAMPLE ID : 2603-5B03-(16.5-17.0)
SAMPLE TYPE .....: Soil
SAMPLED BY .....: --
SUBMITTED BY ....: G.M.
SAMPLE SOURCE ...: HELSTF TSA POL
ANALYST .....: F. Martinez

AUTHORIZED BY : G. Moon
CLIENT P.O. : --
SAMPLE DATE ...: 05-03-00
SUBMITTAL DATE : 05-04-00
EXTRACTION DATE: 05-05-00
ANALYSIS DATE .: 05-14-00

REMARKS -

Opening Calibration Verification standard was out of acceptance criteria.

TPH Gas by Mod 8015

DATA TABLE

Parameter	Result	Unit	Detection Limit
TPH Gas	<20.	mg/Kg	20.

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WSMR, NM 88002

SAMPLE NO. : 20001948
INVOICE NO.: 22105658
REPORT DATE: 05-23-00
REVIEWED BY:

D A T A T A B L E (Cont.)

Surrogate Information -

	Percent Recovery	Range
1-ChloroOctane ..... :	74.7	37-130

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WSMR, NM 88002

SAMPLE NO.: 20001949
INVOICE NO.: 22105658
REPORT DATE: 05-23-00
REVIEWED BY:
PAGE : 1 OF 2

CLIENT SAMPLE ID : 2603-5B04-(21.5-22.0)
SAMPLE TYPE .....: Soil
SAMPLED BY .....: --
SUBMITTED BY ....: G.M.
SAMPLE SOURCE ...: HELSTF TSA POL
ANALYST .....: F. Martinez

AUTHORIZED BY : G. Moon
CLIENT P.O. : --
SAMPLE DATE ...: 05-03-00
SUBMITTAL DATE : 05-04-00
EXTRACTION DATE: 05-05-00
ANALYSIS DATE .: 05-14-00

REMARKS -

Opening Calibration Verification standard was out of acceptance criteria.

TPH Gas by Mod 8015

DATA TABLE

Parameter	Result	Unit	Detection Limit
TPH Gas .....:	21.	mg/Kg	20.

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ANALYTICAL REPORT

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SAMPLE NO. : 20001949
INVOICE NO.: 22105658
REPORT DATE: 05-23-00
REVIEWED BY:

D A T A T A B L E (Cont.)

Surrogate Information -

	Percent Recovery	Range
1-ChloroOctane ..... :	75.1	37-130

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CLIENT MEWATER CORPORATION
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WSMR, NM 88002

SAMPLE NO.: 20001950
INVOICE NO.: 22105658
REPORT DATE: 05-23-00
REVIEWED BY:
PAGE : 1 OF 2

CLIENT SAMPLE ID : 2603-5B04-(26.5-27.0)
SAMPLE TYPE .....: Soil
SAMPLED BY .....: --
SUBMITTED BY ....: G.M.
SAMPLE SOURCE ...: HELSTF TSA POL
ANALYST .....: F. Martinez

AUTHORIZED BY : G. Moon
CLIENT P.O. : --
SAMPLE DATE ...: 05-03-00
SUBMITTAL DATE : 05-04-00
EXTRACTION DATE: 05-05-00
ANALYSIS DATE .: 05-14-00

REMARKS -

Opening Calibration Verification standard was out of acceptance criteria.

TPH Gas by Mod 8015

DATA TABLE

Parameter	Result	Unit	Detection Limit
TPH Gas .....:	<20.	mg/Kg	20.

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ANALYTICAL REPORT

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SAMPLE NO. : 20001950
INVOICE NO.: 22105658
REPORT DATE: 05-23-00
REVIEWED BY:

D A T A T A B L E (Cont.)

Surrogate Information -	Percent Recovery	Range
1-ChloroOctane ..... :	68.4	37-130

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ANALYTICAL REPORT

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WSMR, NM 88002

SAMPLE NO.: 20001951
INVOICE NO.: 22105658
REPORT DATE: 05-23-00
REVIEWED BY:
PAGE : 1 OF 2

CLIENT SAMPLE ID : 2603-5B04-(31.5-32.0)
SAMPLE TYPE .....: Soil
SAMPLED BY .....: --
SUBMITTED BY ....: G.M.
SAMPLE SOURCE ...: HELSTF TSA POL
ANALYST .....: F. Martinez

AUTHORIZED BY : G. Moon
CLIENT P.O. : --
SAMPLE DATE ...: 05-03-00
SUBMITTAL DATE : 05-04-00
EXTRACTION DATE: 05-05-00
ANALYSIS DATE .: 05-14-00

REMARKS -

Opening Calibration Verification standard was out of acceptance criteria.

TPH Gas by Mod 8015

DATA TABLE

Parameter	Result	Unit	Detection Limit
TPH Gas ..... :	<20.	mg/Kg	20.

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Karen Castro
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ANALYTICAL REPORT

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SAMPLE NO. : 20001951
INVOICE NO.: 22105658
REPORT DATE: 05-23-00
REVIEWED BY:

D A T A T A B L E (Cont.)

Surrogate Information -

	Percent Recovery	Range
1-ChloroOctane ..... :	72.2	37-130

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ANALYTICAL REPORT

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BLDG. 126
WSMR, NM. 88002

SAMPLE NO.: 20001945
INVOICE NO.: 22105658
REPORT DATE: 05-23-00
REVIEWED BY:
PAGE : 1 OF 2

CLIENT SAMPLE ID : 2603-5B04-(1.5-2.0)
SAMPLE TYPE .....: Soil
SAMPLED BY .....: --
SUBMITTED BY ....: G.M.
SAMPLE SOURCE ...: HELSTF TSA POL
ANALYST .....: F. Martinez

AUTHORIZED BY : G.W.
CLIENT P.O. : --
SAMPLE DATE ...: 05-03-00
SUBMITTAL DATE : 05-04-00
EXTRACTION DATE: 05-05-00
ANALYSIS DATE .: 05-13-00

REMARKS -

BFB Surrogate was out of acceptanc criteria in the Sample, Method Blank, and Spikes.

Petroleum Contaminants by 8021B

DATA TABLE

Parameter	Result	Unit	Detection Limit
Benzene .....:	<50.	ug/Kg	50.
Toluene .....:	<50.	ug/Kg	50.
Ethylbenzene .....:	<50.	ug/Kg	50.
Total Xylenes .....:	<50.	ug/Kg	50.
Methyl Tert-Butyl Ether .....:	<100	ug/Kg	100

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MANAGING DIRECTOR

ANALYTICAL REPORT

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SAMPLE NO. : 20001945
INVOICE NO.: 22105658
REPORT DATE: 05-23-00
REVIEWED BY:
PAGE : 2 OF 2

D A T A T A B L E (Cont.)

Surrogate Information -

	Percent Recovery	Range
aaa-Trifluorotoluene .....:	997.0	76-115
4-Bromofluorobenzene .....:	12.2	70-126

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E-Mail: lab@traceanalysis.com

ANALYTICAL REPORT

CLIENT MEVATEC CORPORATION
P.O. BOX 399
BLDG. 126
WSMR, NM. 88002

SAMPLE NO.: 20001946
INVOICE NO.: 22105658
REPORT DATE: 05-23-00
REVIEWED BY:
PAGE : 1 OF 2

CLIENT SAMPLE ID : 2603-5B04-(6.5-7.0)
SAMPLE TYPE .....: Soil
SAMPLED BY .....: --
SUBMITTED BY ....: G.M.
SAMPLE SOURCE ...: HELSTF TSA POL
ANALYST .....: F. Martinez

AUTHORIZED BY : G.W.
CLIENT P.O. : --
SAMPLE DATE ...: 05-03-00
SUBMITTAL DATE : 05-04-00
EXTRACTION DATE: 05-05-00
ANALYSIS DATE .: 05-13-00

REMARKS -

BFB Surrogate was out of acceptance criteria in the Sample, Method Blank, and Spikes.

Petroleum Contaminants by 8021B

DATA TABLE

Parameter	Result	Unit	Detection Limit
Benzene .....:	<50.	ug/Kg	50.
Toluene .....:	<50.	ug/Kg	50.
Ethylbenzene .....:	<50.	ug/Kg	50.
Total Xylenes .....:	<50.	ug/Kg	50.
Methyl Tert-Butyl Ether .....:	<100	ug/Kg	100

ANALYTICAL RESULT(S) REPORTED HEREIN APPLY ONLY TO THE SAMPLE(S) TESTED. FURTHERMORE THIS REPORT CAN ONLY BE COPIED IN ITS ENTIRETY

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Karen Cuff
MANAGING DIRECTOR

ANALYTICAL REPORT

CLIENT MEVATEC CORPORATION
P.O. BOX 399
BLDG. 126
WSMR, NM. 88002

SAMPLE NO. : 20001946
INVOICE NO.: 22105658
REPORT DATE: 05-23-00
REVIEWED BY:

D A T A T A B L E (Cont.)

Surrogate Information -

	Percent Recovery	Range
aaa-Trifluorotoluene	100.0	76-115
4-Bromofluorobenzene	15.8	70-126

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ANALYTICAL REPORT

CLIENT MEWBOURNE OPERATING CORPORATION
P.O. BOX 399
BLDG. 126
WSMR, NM. 88002

SAMPLE NO.: 20001947
INVOICE NO.: 22105658
REPORT DATE: 05-23-00
REVIEWED BY:
PAGE : 1 OF 2

CLIENT SAMPLE ID : 2603-5B04-(11.5-12.0)
SAMPLE TYPE .....: Soil
SAMPLED BY .....: --
SUBMITTED BY ....: G.M.
SAMPLE SOURCE ...: HELSTF TSA POL
ANALYST .....: F. Martinez

AUTHORIZED BY : G.W.
CLIENT P.O. : --
SAMPLE DATE ...: 05-03-00
SUBMITTAL DATE : 05-04-00
EXTRACTION DATE: 05-05-00
ANALYSIS DATE .: 05-13-00

REMARKS -

BFB Surrogate was out of acceptance criteria in the Sample, Method Blank, and Spikes.

Petroleum Contaminants by 8021B

DATA TABLE

Parameter	Result	Unit	Detection Limit
Benzene	53.	ug/Kg	50.
Toluene	120	ug/Kg	50.
Ethylbenzene	<50.	ug/Kg	50.
Total Xylenes	<50.	ug/Kg	50.
Methyl Tert-Butyl Ether	<100.	ug/Kg	100

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ANALYTICAL REPORT

CLIENT MEVATEC CORPORATION
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BLDG. 126
WSMR, NM. 88002

SAMPLE NO. : 2000[illegible]7
INVOICE NO.: 22105658
REPORT DATE: 05-23-00
REVIEWED BY:
PAGE : 2 OF 2

D A T A T A B L E (Cont.)

Surrogate Information -

	Percent Recovery	Range
aaa-Trifluorotoluene .....:	104.0	76-115
4-Bromofluorobenzene .....:	6.0	70-126

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CLIENT MEVATEC CORPORATION
P.O. BOX 399
BLDG. 126
WSMR, NM. 88002

SAMPLE NO. 20001948
INVOICE NO.: 22105658
REPORT DATE: 05-23-00
REVIEWED BY:
PAGE : 1 OF 2

CLIENT SAMPLE ID : 2603-5B03-(16.5-17.0)
SAMPLE TYPE .....: Soil
SAMPLED BY .....: --
SUBMITTED BY ....: G.M.
SAMPLE SOURCE ...: HELSTF TSA POL
ANALYST .....: F. Martinez

AUTHORIZED BY : G.W.
CLIENT P.O. : --
SAMPLE DATE ...: 05-03-00
SUBMITTAL DATE : 05-04-00
EXTRACTION DATE: 05-05-00
ANALYSIS DATE .: 05-13-00

REMARKS -

BFB Surrogate was out of acceptance criteria in the Sample, Method Blank, and Spikes.

Petroleum Contaminants by 8021B

DATA TABLE

Parameter	Result	Unit	Detection Limit
Benzene ..... :	<50.	ug/Kg	50.
Toluene ..... :	<50.	ug/Kg	50.
Ethylbenzene ..... :	<50.	ug/Kg	50.
Total Xylenes ..... :	<50.	ug/Kg	50.
Methyl Tert-Butyl Ether ..... :	<100	ug/Kg	100

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ANALYTICAL REPORT

CLIENT MEVATEC CORPORATION
P.O. BOX 399
BLDG. 126
WSMR, NM. 88002

SAMPLE NO. : 20001948
INVOICE NO.: 22105658
REPORT DATE: 05-23-00
REVIEWED BY:

D A T A T A B L E (Cont.)

Surrogate Information -

	Percent Recovery	Range
aaa-Trifluorotoluene .....:	103.0	76-115
4-Bromofluorobenzene .....:	12.8	70-126

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ANALYTICAL REPORT

CLIENT MEVATEC CORPORATION
P.O. BOX 399
BLDG. 126
WSMR, NM. 88002

SAMPLE NO. 20001949
INVOICE NO.: 22105658
REPORT DATE: 05-23-00
REVIEWED BY:
PAGE : 1 OF 2

CLIENT SAMPLE ID : 2603-5B04-(21.5-22.0)
SAMPLE TYPE .....: Soil
SAMPLED BY .....: --
SUBMITTED BY ....: G.M.
SAMPLE SOURCE ...: HELSTF TSA POL
ANALYST .....: F. Martinez

AUTHORIZED BY : G.W.
CLIENT P.O. : --
SAMPLE DATE ...: 05-03-00
SUBMITTAL DATE : 05-04-00
EXTRACTION DATE: 05-05-00
ANALYSIS DATE .: 05-13-00

REMARKS -

BFB Surrogate was out of acceptance criteria in the Sample, Method Blank, and Spikes.

Petroleum Contaminants by 8021B

DATA TABLE

Parameter	Result	Unit	Detection Limit
Benzene .....:	700	ug/Kg	50.
Toluene .....:	1300	ug/Kg	50.
Ethylbenzene .....:	82.	ug/Kg	50.
Total Xylenes .....:	190.	ug/Kg	50.
Methyl Tert-Butyl Ether .....:	220.	ug/Kg	100

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ANALYTICAL REPORT

CLIENT MEVATEC CORPORATION
P.O. BOX 399
BLDG. 126
WSMR, NM. 88002

SAMPLE NO. : 20001949
INVOICE NO.: 22105658
REPORT DATE: 05-23-00
REVIEWED BY:
PAGE : 2 OF 2

D A T A T A B L E (Cont.)

Surrogate Information -

	Percent Recovery	Range
aaa-Trifluorotoluene .....:	102.0	76-115
4-Bromofluorobenzene .....:	11.4	70-126

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ANALYTICAL REPORT

CLIENT MEVATEC CORPORATION
P.O. BOX 399
BLDG. 126
WSMR, NM. 88002

SAMPLE NO. 20001950
INVOICE NO.: 22105658
REPORT DATE: 05-23-00
REVIEWED BY:
PAGE : 1 OF 2

CLIENT SAMPLE ID : 2603-5B04-(26.5-27.0)
SAMPLE TYPE .....: Soil
SAMPLED BY .....: --
SUBMITTED BY ....: G.M.
SAMPLE SOURCE ...: HELSTF TSA POL
ANALYST .....: F. Martinez

AUTHORIZED BY : G.W.
CLIENT P.O. : --
SAMPLE DATE ...: 05-03-00
SUBMITTAL DATE : 05-04-00
EXTRACTION DATE: 05-05-00
ANALYSIS DATE .: 05-13-00

REMARKS -

BFB Surrogate was out of acceptance criteria in the Sample, Method Blank, and Spikes.

Petroleum Contaminants by 8021B

DATA TABLE

Parameter	Result	Unit	Detection Limit
Benzene	<50.	ug/Kg	50.
Toluene	<50.	ug/Kg	50.
Ethylbenzene	<50.	ug/Kg	50.
Total Xylenes	<50.	ug/Kg	50.
Methyl Tert-Butyl Ether	<100	ug/Kg	100

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SAMPLE NO. : 20001950
INVOICE NO.: 22105658
REPORT DATE: 05-23-00
REVIEWED BY:

D A T A T A B L E (Cont.)

Surrogate Information -

	Percent Recovery	Range
aaa-Trifluorotoluene .....:	99.3	76-115
4-Bromofluorobenzene .....:	5.1	70-126

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ANALYTICAL REPORT

CLIENT MEVATEC CORPORATION
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BLDG. 126
WSMR, NM. 88002

SAMPLE NO. 20001951
INVOICE NO.: 22105658
REPORT DATE: 05-23-00
REVIEWED BY:

CLIENT SAMPLE ID : 2603-5B04-(31.5-32.0)
SAMPLE TYPE .....: Soil
SAMPLED BY .....: --
SUBMITTED BY ....: G.M.
SAMPLE SOURCE ...: HELSTF TSA POL
ANALYST .....: F. Martinez

AUTHORIZED BY : G.W.
CLIENT P.O. : --
SAMPLE DATE ...: 05-03-00
SUBMITTAL DATE : 05-04-00
EXTRACTION DATE: --
ANALYSIS DATE .: 05-05-00

REMARKS -

BFB Surrogate was out of acceptance criteria in the Sample, Method Blank, and Spikes.

Petroleum Contaminants by 8021B

DATA TABLE

Parameter	Result	Unit	Detection Limit
Benzene	<50.	ug/Kg	50.
Toluene	<50.	ug/Kg	50.
Ethylbenzene	<50.	ug/Kg	50.
Total Xylenes	<50.	ug/Kg	50.
Methyl Tert-Butyl Ether	<100	ug/Kg	100

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SAMPLE NO. : 20001951
INVOICE NO.: 22105658
REPORT DATE: 05-23-00
REVIEWED BY:

D A T A T A B L E (Cont.)

Surrogate Information -

	Percent Recovery	Range
aaa-Trifluorotoluene .....:	101.0	76-115
4-Bromofluorobenzene .....:	5.0	70-126

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ANALYTICAL REPORT

CLIENT MEVATEC CORPORATION
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WSMR, NM 88002

SAMPLE NO.: 20001959
INVOICE NO.: 22105658
REPORT DATE: 05-24-00
REVIEWED BY:

CLIENT SAMPLE ID : 2603-5B05-(1.5-2.0)
SAMPLE TYPE .....: Soil
SAMPLED BY .....: --
SUBMITTED BY ....: G.M.
SAMPLE SOURCE ...: HELSTF TSA POL
ANALYST .....: F. Martinez

AUTHORIZED BY : G. Moon
CLIENT P.O. : --
SAMPLE DATE ...: 05-03-00
SUBMITTAL DATE : 05-04-00
EXTRACTION DATE: 05-05-00
ANALYSIS DATE .: 05-15-00

REMARKS -

BFB Surrogate was out of acceptance criteria in the Sample, Method Blank, and Spikes.

Petroleum Contaminants by 8021B

DATA TABLE

Parameter	Result	Unit	Detection Limit
Benzene .....:	<50.	ug/Kg	50.
Toluene .....:	<50.	ug/Kg	50.
Ethylbenzene .....:	<50.	ug/Kg	50.
Total Xylenes .....:	<50.	ug/Kg	50.
Methyl Tert-Butyl Ether .....:	<100	ug/Kg	100

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ANALYTICAL REPORT

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SAMPLE NO. : 20001959
INVOICE NO.: 22105658
REPORT DATE: 05-24-00
REVIEWED BY:

D A T A T A B L E (Cont.)

Surrogate Information -

	Percent Recovery	Range
aaa-Trifluorotoluene .....:	102.0	76-114
4-Bromofluorobenzene .....:	6.6	70-125

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ANALYTICAL REPORT

CLIENT MEWBOURNE CORPORATION
P.O. BOX 399, BLDG 126
WSMR, NM 88002

SAMPLE NO.: 20001960
INVOICE NO.: 22105658
REPORT DATE: 05-24-00
REVIEWED BY:
PAGE : 1 OF 2

CLIENT SAMPLE ID : 2603-5B05-(6.5-7.0)
SAMPLE TYPE .....: Soil
SAMPLED BY .....: --
SUBMITTED BY ....: G.M.
SAMPLE SOURCE ...: HELSTF TSA POL
ANALYST .....: F. Martinez

AUTHORIZED BY : G. Moon
CLIENT P.O. : --
SAMPLE DATE ...: 05-03-00
SUBMITTAL DATE : 05-04-00
EXTRACTION DATE: 05-05-00
ANALYSIS DATE .: 05-15-00

REMARKS -

BFB Surrogate was out of acceptance criteria in the Sample, Method Blank, and Spikes.

Petroleum Contaminants by 8021B

DATA TABLE

Parameter	Result	Unit	Detection Limit
Benzene .....:	<50.	ug/Kg	50.
Toluene .....:	<50.	ug/Kg	50.
Ethylbenzene .....:	<50.	ug/Kg	50.
Total Xylenes .....:	<50.	ug/Kg	50.
Methyl Tert-Butyl Ether .....:	<100	ug/Kg	100

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ANALYTICAL REPORT

CLIENT MEVATEC CORPORATION
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SAMPLE NO. : 20001960
INVOICE NO.: 22105658
REPORT DATE: 05-24-00
REVIEWED BY:

D A T A T A B L E (Cont.)

Surrogate Information -

	Percent Recovery	Range
aaa-Trifluorotoluene .....:	100.0	76-114
4-Bromofluorobenzene .....:	12.7	70-125

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ANALYTICAL REPORT

CLIENT MEVATEC CORPORATION
P.O. BOX 399, BLDG 126
WSMR, NM 88002

SAMPLE NO.: 20001961
INVOICE NO.: 22105658
REPORT DATE: 05-24-00
REVIEWED BY:
PAGE : 1 OF 2

CLIENT SAMPLE ID : 2603-5B05-(11.5-12.0)
SAMPLE TYPE .....: Soil
SAMPLED BY .....: --
SUBMITTED BY ....: G.M.
SAMPLE SOURCE ...: HELSTF TSA POL
ANALYST .....: F. Martinez

AUTHORIZED BY : G. Moon
CLIENT P.O. : --
SAMPLE DATE ...: 05-03-00
SUBMITTAL DATE : 05-04-00
EXTRACTION DATE: 05-05-00
ANALYSIS DATE .: 05-15-00

REMARKS -

BFB Surrogate was out of acceptance criteria in the Method Blank, and Spikes.

Petroleum Contaminants by 8021B

DATA TABLE

Parameter	Result	Unit	Detection Limit
Benzene	<50.	ug/Kg	50.
Toluene	<50.	ug/Kg	50.
Ethylbenzene	<50.	ug/Kg	50.
Total Xylenes	<50.	ug/Kg	50.
Methyl Tert-Butyl Ether	<100	ug/Kg	100

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ANALYTICAL REPORT

CLIENT MEVATEC CORPORATION
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WSMR, NM 88002

SAMPLE NO. : 20001961
INVOICE NO.: 22105658
REPORT DATE: 05-24-00
REVIEWED BY:

D A T A T A B L E (Cont.)

Surrogate Information -

	Percent Recovery	Range
aaa-Trifluorotoluene .....:	102.0	76-114
4-Bromofluorobenzene .....:	82.8	70-125

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ANALYTICAL REPORT

CLIENT MEVATEC CORPORATION
P.O. BOX 399, BLDG 126
WSMR, NM 88002

SAMPLE NO.: 20001962
INVOICE NO.: 22105658
REPORT DATE: 05-24-00
REVIEWED BY:
PAGE : 1 OF 2

CLIENT SAMPLE ID : 2603-5B05-(16.5-17.0)
SAMPLE TYPE .....: Soil
SAMPLED BY .....: --
SUBMITTED BY ....: G.M.
SAMPLE SOURCE ...: HELSTF TSA POL
ANALYST .....: F. Martinez

AUTHORIZED BY : G. Moon
CLIENT P.O. : --
SAMPLE DATE ...: 05-03-00
SUBMITTAL DATE : 05-04-00
EXTRACTION DATE: 05-05-00
ANALYSIS DATE .: 05-15-00

REMARKS -

BFB Surrogate was out of acceptance criteria in the Method Blank, and Spikes.

Petroleum Contaminants by 8021B

DATA TABLE

Parameter	Result	Unit	Detection Limit
Benzene .....:	<50.	ug/Kg	50.
Toluene .....:	<50.	ug/Kg	50.
Ethylbenzene .....:	<50.	ug/Kg	50.
Total Xylenes .....:	<50.	ug/Kg	50.
Methyl Tert-Butyl Ether .....:	<100	ug/Kg	100

ANALYTICAL RESULT(S) REPORTED HEREIN APPLY ONLY TO THE SAMPLE(S) TESTED. FURTHERMORE, THIS REPORT CAN ONLY BE COPIED IN ITS ENTIRETY

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ANALYTICAL REPORT

CLIENT MEVATEC CORPORATION
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WSMR, NM 88002

SAMPLE NO. : 20001962
INVOICE NO.: 22105658
REPORT DATE: 05-24-00
REVIEWED BY:

D A T A T A B L E (Cont.)

Surrogate Information -

	Percent Recovery	Range
aaa-Trifluorotoluene .....:	102.0	76-114
4-Bromofluorobenzene .....:	82.0	70-125

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ANALYTICAL REPORT

CLIENT MEVATEC CORPORATION
P.O. BOX 399, BLDG 126
WSMR, NM 88002

SAMPLE NO.: 20001963
INVOICE NO.: 22105658
REPORT DATE: 05-24-00
REVIEWED BY: K
PAGE : 1 OF 2

CLIENT SAMPLE ID : 2603-5B05-(21.5-22.0)
SAMPLE TYPE .....: Soil
SAMPLED BY .....: --
SUBMITTED BY ....: G.M.
SAMPLE SOURCE ...: HELSTF TSA POL
ANALYST .....: F. Martinez

AUTHORIZED BY : G. Moon
CLIENT P.O. : --
SAMPLE DATE ...: 05-03-00
SUBMITTAL DATE : 05-04-00
EXTRACTION DATE: 05-05-00
ANALYSIS DATE .: 05-15-00

REMARKS -

TFT Surrogate was out of acceptance criteria in the Sample.
BFB Surrogate was out in the Method Blank and Spikes.

Petroleum Contaminants by 8021B

DATA TABLE

Parameter	Result	Unit	Detection Limit
Benzene	38000	ug/Kg	400.
Toluene	340000	ug/Kg	400.
Ethylbenzene	130000	ug/Kg	400.
Total Xylenes	400000	ug/Kg	400.
Methyl Tert-Butyl Ether	6600	ug/Kg	800.

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Karen Castle
MANAGING DIRECTOR

ANALYTICAL REPORT

CLIENT MEVATEC CORPORATION
P.O. BOX 399, BLDG 126
WSMR, NM 88002

SAMPLE NO. : 20001963
INVOICE NO.: 22105658
REPORT DATE: 05-24-00
REVIEWED BY:

D A T A T A B L E (Cont.)

Surrogate Information -

	Percent Recovery	Range
aaa-Trifluorotoluene .....:	126.0	76-114
4-Bromofluorobenzene .....:	101.0	70-125

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ANALYTICAL REPORT

CLIENT MEWATER CORPORATION
P.O. BOX 399, BLDG 126
WSMR, NM 88002

SAMPLE NO.: 20001964
INVOICE NO.: 22105658
REPORT DATE: 05-24-00
REVIEWED BY:
PAGE : 1 OF 2

CLIENT SAMPLE ID : 2603-5B05-(26.5-27.0)
SAMPLE TYPE .....: Soil
SAMPLED BY .....: --
SUBMITTED BY ....: G.M.
SAMPLE SOURCE ...: HELSTF TSA POL
ANALYST .....: F. Martinez

AUTHORIZED BY : G. Moon
CLIENT P.O. : --
SAMPLE DATE ...: 05-03-00
SUBMITTAL DATE : 05-04-00
EXTRACTION DATE: 05-05-00
ANALYSIS DATE .: 05-15-00

REMARKS -

BFB Surrogate was out of acceptance criteria in the Method Blank and Spikes.

Petroleum Contaminants by 8021B

DATA TABLE

Parameter	Result	Unit	Detection Limit
Benzene .....:	<50.	ug/Kg	50.
Toluene .....:	360	ug/Kg	50.
Ethylbenzene .....:	140	ug/Kg	50.
Total Xylenes .....:	<50.	ug/Kg	50.
Methyl Tert-Butyl Ether .....:	<100.	ug/Kg	100

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Karen Cook
MANAGING DIRECTOR

ANALYTICAL REPORT

CLIENT MEVATEC CORPORATION
P.O. BOX 399, BLDG 126
WSMR, NM 88002

SAMPLE NO. : 20001964
INVOICE NO.: 22105658
REPORT DATE: 05-24-00
REVIEWED BY:

D A T A T A B L E (Cont.)

Surrogate Information -

	Percent Recovery	Range
aaa-Trifluorotoluene .....:	102.0	76-114
4-Bromofluorobenzene .....:	84.1	70-125

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CLIENT MEVATEC CORPORATION
P.O. BOX 399, BLDG 126
WSMR, NM 88002

SAMPLE NO.: 20001972
INVOICE NO.: 22105658
REPORT DATE: 05-24-00
REVIEWED BY:
PAGE : 1 OF 2

CLIENT SAMPLE ID : 2603-5B05-(31.5-32.0)
SAMPLE TYPE .....: Soil
SAMPLED BY .....: --
SUBMITTED BY ....: G.M.
SAMPLE SOURCE ...: HELSTF TSA POL
ANALYST .....: F. Martinez

AUTHORIZED BY : G. Moon
CLIENT P.O. : --
SAMPLE DATE ...: 05-03-00
SUBMITTAL DATE : 05-04-00
EXTRACTION DATE: 05-05-00
ANALYSIS DATE .: 05-15-00

REMARKS -

BFB Surrogate was out of acceptance criteria in the Method Blank, and Spikes.

Petroleum Contaminants by 8021B

DATA TABLE

Parameter	Result	Unit	Detection Limit
Benzene .....:	<50.	ug/Kg	50.
Toluene .....:	<50.	ug/Kg	50.
Ethylbenzene .....:	<50.	ug/Kg	50.
Total Xylenes .....:	<50.	ug/Kg	50.
Methyl Tert-Butyl Ether .....:	<100	ug/Kg	100

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WSMR, NM 88002

SAMPLE NO. : 20001972
INVOICE NO.: 22105658
REPORT DATE: 05-24-00
REVIEWED BY:

D A T A T A B L E (Cont.)

Surrogate Information -

	Percent Recovery	Range
aaa-Trifluorotoluene .....:	99.0	76-114
4-Bromofluorobenzene .....:	86.3	70-125

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ANALYTICAL REPORT

CLIENT MEVATEC CORPORATION
P.O. BOX 399, BLDG 126
WSMR, NM 88002

SAMPLE NO.: 20001959
INVOICE NO.: 22105658
REPORT DATE: 05-24-00
REVIEWED BY: K
PAGE : 1 OF 2

CLIENT SAMPLE ID : 2603-5B05-(1.5-2.0)
SAMPLE TYPE .....: Soil
SAMPLED BY .....: --
SUBMITTED BY ....: G.M.
SAMPLE SOURCE ...: HELSTF TSA POL
ANALYST .....: F. Martinez

AUTHORIZED BY : G. Moon
CLIENT P.O. : --
SAMPLE DATE ...: 05-03-00
SUBMITTAL DATE : 05-04-00
EXTRACTION DATE: 05-05-00
ANALYSIS DATE .: 05-15-00

REMARKS -

Surrogate 1-ChloroOctane was out of acceptance criteria in the Opening Calibration Verification standard.

TPH Gas by Mod 8015

DATA TABLE

Parameter	Result	Unit	Detection Limit
TPH Gas .....:	<20.	mg/Kg	20.

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CLIENT MEVATEC CORPORATION
P.O. BOX 399, BLDG 126
WSMR, NM 88002

SAMPLE NO. : 20001959
INVOICE NO.: 22105658
REPORT DATE: 05-24-00
REVIEWED BY:

D A T A T A B L E (Cont.)

Surrogate Information -

	Percent Recovery	Range
1-ChloroOctane ..... :	79.9	37-130

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ANALYTICAL REPORT

CLIENT MEVATEC CORPORATION
P.O. BOX 399, BLDG 126
WSMR, NM 88002

SAMPLE NO.: 20001960
INVOICE NO.: 22105658
REPORT DATE: 05-24-00
REVIEWED BY:
PAGE : 1 OF 2

CLIENT SAMPLE ID : 2603-5B05-(6.5-7.0)
SAMPLE TYPE .....: Soil
SAMPLED BY .....: --
SUBMITTED BY ....: G.M.
SAMPLE SOURCE ...: HELSTF TSA POL
ANALYST .....: F. Martinez

AUTHORIZED BY : G. Moon
CLIENT P.O. : --
SAMPLE DATE ...: 05-03-00
SUBMITTAL DATE : 05-04-00
EXTRACTION DATE: 05-05-00
ANALYSIS DATE .: 05-15-00

REMARKS -

Surrogate 1-ChloroOctane was out of acceptance criteria in the Opening Calibration Verification standard.

TPH Gas by Mod 8015

DATA TABLE

Parameter	Result	Unit	Detection Limit
TPH Gas .....:	<20.	mg/Kg	20.

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WSMR, NM 88002

SAMPLE NO. : 20001960
INVOICE NO.: 22105658
REPORT DATE: 05-24-00
REVIEWED BY:

D A T A T A B L E (Cont.)

Surrogate Information -

	Percent Recovery	Range
1-ChloroOctane ..... :	80.6	37-130

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ANALYTICAL REPORT

CLIENT MEVATEC CORPORATION
P.O. BOX 399, BLDG 126
WSMR, NM 88002

SAMPLE NO.: 20001961
INVOICE NO.: 22105658
REPORT DATE: 05-24-00
REVIEWED BY:
PAGE : 1 OF 2

CLIENT SAMPLE ID : 2603-5B05-(11.5-12.0)
SAMPLE TYPE .....: Soil
SAMPLED BY .....: --
SUBMITTED BY ....: G.M.
SAMPLE SOURCE ...: HELSTF TSA POL
ANALYST .....: F. Martinez

AUTHORIZED BY : G. Moon
CLIENT P.O. : --
SAMPLE DATE ...: 05-03-00
SUBMITTAL DATE : 05-04-00
EXTRACTION DATE: 05-05-00
ANALYSIS DATE .: 05-15-00

REMARKS -

Surrogate 1-ChloroOctane was out of acceptance criteria in the Opening Calibration Verification standard.

TPH Gas by Mod 8015

DATA TABLE

Parameter	Result	Unit	Detection Limit
TPH Gas .....:	<20.	mg/Kg	20.

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SAMPLE NO. : 20001961
INVOICE NO.: 22105658
REPORT DATE: 05-24-00
REVIEWED BY:
PAGE : 2 OF 2

D A T A T A B L E (Cont.)

Surrogate Information -

	Percent Recovery	Range
1-ChloroOctane ..... :	82.5	37-130

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CLIENT MEWATER CORPORATION
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WSMR, NM 88002

SAMPLE NO.: 20001962
INVOICE NO.: 22105658
REPORT DATE: 05-24-00
REVIEWED BY:
PAGE : 1 OF 2

CLIENT SAMPLE ID : 2603-5B05-(16.5-17.0)
SAMPLE TYPE .....: Soil
SAMPLED BY .....: --
SUBMITTED BY ....: G.M.
SAMPLE SOURCE ...: HELSTF TSA POL
ANALYST .....: F. Martinez

AUTHORIZED BY : G. Moon
CLIENT P.O. : --
SAMPLE DATE ...: 05-03-00
SUBMITTAL DATE : 05-04-00
EXTRACTION DATE: 05-05-00
ANALYSIS DATE .: 05-15-00

REMARKS -

Surrogate 1-ChloroOctane was out of acceptance criteria in the Opening Calibration Verification standard.

TPH Gas by Mod 8015

DATA TABLE

Parameter	Result	Unit	Detection Limit
TPH Gas .....:	<20.	mg/Kg	20.

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WSMR, NM 88002

SAMPLE NO. : 20001962
INVOICE NO.: 22105658
REPORT DATE: 05-24-00
REVIEWED BY:

D A T A T A B L E (Cont.)

Surrogate Information -

	Percent Recovery	Range
1-ChloroOctane ..... :	81.9	37-130

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CLIENT MEVATEC CORPORATION
P.O. BOX 399, BLDG 126
WSMR, NM 88002

SAMPLE NO.: 20001963
INVOICE NO.: 22105658
REPORT DATE: 05-24-00
REVIEWED BY:
PAGE : 1 OF 2

CLIENT SAMPLE ID : 2603-5B05-(21.5-22.0)
SAMPLE TYPE .....: Soil
SAMPLED BY .....: --
SUBMITTED BY ....: G.M.
SAMPLE SOURCE ...: HELSTF TSA POL
ANALYST .....: F. Martinez

AUTHORIZED BY : G. Moon
CLIENT P.O. : --
SAMPLE DATE ...: 05-03-00
SUBMITTAL DATE : 05-04-00
EXTRACTION DATE: 05-05-00
ANALYSIS DATE .: 05-18-00

REMARKS -

Sample analyzed 1 day past hold time due to dilutions.

TPH Gas by Mod 8015

DATA TABLE

Parameter	Result	Unit	Detection Limit
TPH Gas	4100	mg/Kg	200.

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SAMPLE NO. : 20001963
INVOICE NO.: 22105658
REPORT DATE: 05-24-00
REVIEWED BY:

DATA TABLE (Cont.)

Surrogate Information -

	Percent Recovery	Range
1-ChloroOctane ..... :	116.0	80-120

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WSMR, NM 88002

SAMPLE NO.: 20001964
INVOICE NO.: 22105658
REPORT DATE: 05-24-00
REVIEWED BY:
PAGE : 1 OF 2

CLIENT SAMPLE ID : 2603-5B05-(26.5-27.0)
SAMPLE TYPE .....: Soil
SAMPLED BY .....: --
SUBMITTED BY ....: G.M.
SAMPLE SOURCE ...: HELSTF TSA POL
ANALYST .....: F. Martinez

AUTHORIZED BY : G. Moon
CLIENT P.O. : --
SAMPLE DATE ...: 05-03-00
SUBMITTAL DATE : 05-04-00
EXTRACTION DATE: 05-05-00
ANALYSIS DATE .: 05-15-00

REMARKS -

Surrogate 1-ChloroOctane was out of acceptance criteria in the Opening Calibration Verification standard.

TPH Gas by Mod 8015

DATA TABLE

Parameter	Result	Unit	Detection Limit
TPH Gas .....:	71.	mg/Kg	50.

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Karen Cash
MANAGING DIRECTOR

ANALYTICAL REPORT

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WSMR, NM 88002

SAMPLE NO. : 20001964
INVOICE NO.: 22105658
REPORT DATE: 05-24-00
REVIEWED BY:
PAGE : 2 ~~OF 2~~

D A T A T A B L E (Cont.)

Surrogate Information -

	Percent Recovery	Range
1-ChloroOctane ..... :	91.2	37-130

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CLIENT MEVATEC CORPORATION
P.O. BOX 399, BLDG 126
WSMR, NM 88002

SAMPLE NO.: 20001972
INVOICE NO.: 22105658
REPORT DATE: 05-24-00
REVIEWED BY:
PAGE : 1 OF 2

CLIENT SAMPLE ID : 2603-5B05-(31.5-32.0)
SAMPLE TYPE .....: Soil
SAMPLED BY .....: --
SUBMITTED BY ....: G.M.
SAMPLE SOURCE ...: HELSTF TSA POL
ANALYST .....: F. Martinez

AUTHORIZED BY : G. Moon
CLIENT P.O. : --
SAMPLE DATE ...: 05-03-00
SUBMITTAL DATE : 05-04-00
EXTRACTION DATE: 05-05-00
ANALYSIS DATE .: 05-15-00

TPH Gas by Mod 8015

DATA TABLE

Parameter	Result	Unit	Detection Limit
TPH Gas ..... :	<20.	mg/Kg	20.

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ANALYTICAL REPORT

CLIENT MEVATEC CORPORATION
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WSMR, NM 88002

SAMPLE NO. : 20001972
INVOICE NO.: 22105658
REPORT DATE: 05-24-00
REVIEWED BY:

D A T A T A B L E (Cont.)

Surrogate Information -

	Percent Recovery	Range
1-ChloroOctane ..... :	99.5	37-130

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ANALYTICAL REPORT

CLIENT MEVATEC CORPORATION
P.O. BOX 399, BLDG 126
WSMR, NM 88002

SAMPLE NO.: 20001952
INVOICE NO.: 22105658
REPORT DATE: 05-23-00
REVIEWED BY:
PAGE : 1 OF 2

CLIENT SAMPLE ID : 2603-5B06(1.5-2.0)
SAMPLE TYPE .....: Soil
SAMPLED BY .....: --
SUBMITTED BY ....: G.M.
SAMPLE SOURCE ...: HELSTF TSA POL
ANALYST .....: F. Martinez

AUTHORIZED BY : G. Moon
CLIENT P.O. : --
SAMPLE DATE ...: 05-03-00
SUBMITTAL DATE : 05-04-00
EXTRACTION DATE: 05-05-00
ANALYSIS DATE .: 05-14-00

REMARKS -

Opening Calibration Verification standard was out of acceptance criteria.

TPH Gas by Mod 8015

DATA TABLE

Parameter	Result	Unit	Detection Limit
TPH Gas .....:	<20.	mg/Kg	20.

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SAMPLE NO. : 20001952
INVOICE NO.: 22105658
REPORT DATE: 05-23-00
REVIEWED BY:

D A T A T A B L E (Cont.)

Surrogate Information -

	Percent Recovery	Range
1-ChloroOctane ..... :	75.3	37-130

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WSMR, NM 88002

SAMPLE NO.: 20001953
INVOICE NO.: 22105658
REPORT DATE: 05-23-00
REVIEWED BY:
PAGE : 1 OF 2

CLIENT SAMPLE ID : 2603-5B06-(6.5-7.0)
SAMPLE TYPE .....: Soil
SAMPLED BY .....: --
SUBMITTED BY ....: G.M.
SAMPLE SOURCE ...: HELSTF TSA POL
ANALYST .....: F. Martinez

AUTHORIZED BY : G. Moon
CLIENT P.O. : --
SAMPLE DATE ...: 05-03-00
SUBMITTAL DATE : 05-04-00
EXTRACTION DATE: 05-05-00
ANALYSIS DATE .: 05-14-00

REMARKS -

Opening Calibration Verification standard was out of acceptance criteria.

TPH Gas by Mod 8015

DATA TABLE

Parameter	Result	Unit	Detection Limit
TPH Gas .....:	<20.	mg/Kg	20.

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ANALYTICAL REPORT

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WSMR, NM 88002

SAMPLE NO. : 20001953
INVOICE NO.: 22105658
REPORT DATE: 05-23-00
REVIEWED BY:

D A T A T A B L E (Cont.)

Surrogate Information -

	Percent Recovery	Range
1-ChloroOctane ..... :	71.8	37-130

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CLIENT MEVATEC CORPORATION
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WSMR, NM 88002

SAMPLE NO.: 20001954
INVOICE NO.: 22105658
REPORT DATE: 05-23-00
REVIEWED BY:
PAGE : 1 OF 2

CLIENT SAMPLE ID : 2603-5B06-(11.5-12.0)
SAMPLE TYPE .....: Soil
SAMPLED BY .....: --
SUBMITTED BY ....: G.M.
SAMPLE SOURCE ...: HELSTF TSA POL
ANALYST .....: F. Martinez

AUTHORIZED BY : G. Moon
CLIENT P.O. : --
SAMPLE DATE ...: 05-03-00
SUBMITTAL DATE : 05-04-00
EXTRACTION DATE: 05-05-00
ANALYSIS DATE .: 05-14-00

REMARKS -

Opening Calibration Verification standard was out of acceptance criteria.

TPH Gas by Mod 8015

DATA TABLE

Parameter	Result	Unit	Detection Limit
TPH Gas .....:	<20.	mg/Kg	20.

ANALYTICAL RESULT(S) REPORTED HEREIN APPLY ONLY TO THE SAMPLE(S) TESTED. FURTHERMORE, THIS REPORT CAN ONLY BE COPIED IN ITS ENTIRETY.

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ANALYTICAL REPORT

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WSMR, NM 88002

SAMPLE NO. : 20001954
INVOICE NO.: 22105658
REPORT DATE: 05-23-00
REVIEWED BY:

D A T A T A B L E (Cont.)

Surrogate Information -

	Percent Recovery	Range
1-ChloroOctane ..... :	69.2	37-130

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WSMR, NM 88002

SAMPLE NO.: 20001955
INVOICE NO.: 22105658
REPORT DATE: 05-23-00
REVIEWED BY:
PAGE : 1 OF 2

CLIENT SAMPLE ID : 2603-5B06-(16.5-17.0)
SAMPLE TYPE .....: Soil
SAMPLED BY .....: --
SUBMITTED BY ....: G.M.
SAMPLE SOURCE ...: HELSTF TSA POL
ANALYST .....: F. Martinez

AUTHORIZED BY : G. Moon
CLIENT P.O. : --
SAMPLE DATE ...: 05-03-00
SUBMITTAL DATE : 05-04-00
EXTRACTION DATE: 05-05-00
ANALYSIS DATE .: 05-14-00

REMARKS -

Opening Calibration Verification standard was out of acceptance criteria.

TPH Gas by Mod 8015

DATA TABLE

Parameter	Result	Unit	Detection Limit
TPH Gas .....:	<20.	mg/Kg	20.

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ANALYTICAL RESULT(S) REPORTED HEREIN APPLY ONLY TO THE SAMPLE(S) TESTED. FURTHERMORE, THIS REPORT CAN ONLY BE COPIED IN ITS ENTIRETY

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ANALYTICAL REPORT

CLIENT MEVATEC CORPORATION
P.O. BOX 399, BLDG 126
WSMR, NM 88002

SAMPLE NO. : 20001 05
INVOICE NO.: 22105658
REPORT DATE: 05-23-00
REVIEWED BY:
PAGE : 2 OF 2

D A T A T A B L E (Cont.)

Surrogate Information -	Percent Recovery	Range
1-ChloroOctane ..... :	69.0	37-130

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P.O. BOX 399, BLDG 126
WSMR, NM 88002

SAMPLE NO.: 20001956
INVOICE NO.: 22105658
REPORT DATE: 05-24-00
REVIEWED BY:
PAGE : 1 OF 2

CLIENT SAMPLE ID : 2603-5B06-(21.5-22.0)
SAMPLE TYPE .....: Soil
SAMPLED BY .....: --
SUBMITTED BY ....: G.M.
SAMPLE SOURCE ...: HELSTF TSA POL
ANALYST .....: F. Martinez

AUTHORIZED BY : G. Moon
CLIENT P.O. : --
SAMPLE DATE ...: 05-03-00
SUBMITTAL DATE : 05-04-00
EXTRACTION DATE: 05-05-00
ANALYSIS DATE .: 04-15-00

REMARKS -

Surrogate 1-ChloroOctane was out of acceptance criteria in the Opening Calibration Verification standard.

TPH Gas by Mod 8015

DATA TABLE

Parameter	Result	Unit	Detection Limit
TPH Gas .....:	<20.	mg/Kg	20.

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MANAGING DIRECTOR

ANALYTICAL REPORT

CLIENT MEVATEC CORPORATION
P.O. BOX 399, BLDG 126
WSMR, NM 88002

SAMPLE NO. : 20001956
INVOICE NO.: 22105658
REPORT DATE: 05-24-00
REVIEWED BY:

D A T A T A B L E (Cont.)

Surrogate Information -

	Percent Recovery	Range
1-ChloroOctane ..... :	84.5	37-130

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E-Mail: lab@traceanalysis.com

ANALYTICAL REPORT

CLIENT MEVATEC CORPORATION
P.O. BOX 399, BLDG 126
WSMR, NM 88002

SAMPLE NO.: 20001957
INVOICE NO.: 22105658
REPORT DATE: 05-24-00
REVIEWED BY:
PAGE : 1 OF 2

CLIENT SAMPLE ID : 2603-5B06-(26.5-27.0)
SAMPLE TYPE .....: Soil
SAMPLED BY .....: --
SUBMITTED BY ....: G.M.
SAMPLE SOURCE ...: HELSTF TSA POL
ANALYST .....: F. Martinez

AUTHORIZED BY : G. Moon
CLIENT P.O. : --
SAMPLE DATE ...: 05-03-00
SUBMITTAL DATE : 05-04-00
EXTRACTION DATE: 05-05-00
ANALYSIS DATE .: 05-15-00

REMARKS -

Surrogate 1-ChloroOctance was out of acceptance criteria in the Opening Calibration Verification standard.

TPH Gas by Mod 8015

DATA TABLE

Parameter	Result	Unit	Detection Limit
TPH Gas .....:	<20.	mg/Kg	20.

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ANALYTICAL REPORT

CLIENT MEVATEC CORPORATION
P.O. BOX 399, BLDG 126
WSMR, NM 88002

SAMPLE NO. : 20001957
INVOICE NO.: 22105658
REPORT DATE: 05-24-00
REVIEWED BY:

D A T A T A B L E (Cont.)

Surrogate Information -

	Percent Recovery	Range
1-ChloroOctane ..... :	80.3	37-130

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CLIENT MEWATEC CORPORATION
P.O. BOX 399, BLDG 126
WSMR, NM 88002

SAMPLE NO.: 20001958
INVOICE NO.: 22105658
REPORT DATE: 05-24-00
REVIEWED BY:
PAGE : 1 OF 2

CLIENT SAMPLE ID : 2603-5B06-(31.5-32.0)
SAMPLE TYPE .....: Soil
SAMPLED BY .....: --
SUBMITTED BY ....: G.M.
SAMPLE SOURCE ...: HELSTF TSA POL
ANALYST .....: F. Martinez

AUTHORIZED BY : G. Moon
CLIENT P.O. : --
SAMPLE DATE ...: 05-03-00
SUBMITTAL DATE : 05-04-00
EXTRACTION DATE: 05-05-00
ANALYSIS DATE .: 05-15-00

REMARKS -

Surrogate 1-ChloroOctance was out of acceptance criteria in the Opening Calibration Verification standard.

TPH Gas by Mod 8015

DATA TABLE

Parameter	Result	Unit	Detection Limit
TPH Gas .....:	<20.	mg/Kg	20.

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ANALYTICAL REPORT

CLIENT MEVATEC CORPORATION
P.O. BOX 399, BLDG 126
WSMR, NM 88002

SAMPLE NO. : 20001958
INVOICE NO.: 22105658
REPORT DATE: 05-24-00
REVIEWED BY: R

D A T A T A B L E (Cont.)

Surrogate Information -

	Percent Recovery	Range
1-ChloroOctane ..... :	86.4	37-130

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CLIENT MEVATEC CORPORATION
P.O. BOX 399
BLDG. 126
WSMR, NM. 88002

SAMPLE NO.: 20001952
INVOICE NO.: 22105658
REPORT DATE: 05-23-00
REVIEWED BY:
PAGE : 1 OF 2

CLIENT SAMPLE ID : 2603-5B06(1.5-2.0)
SAMPLE TYPE .....: Soil
SAMPLED BY .....: --
SUBMITTED BY ....: G.M.
SAMPLE SOURCE ...: HELSTF TSA POL
ANALYST .....: F. Martinez

AUTHORIZED BY : G.W.
CLIENT P.O. : --
SAMPLE DATE ...: 05-03-00
SUBMITTAL DATE : 05-04-00
EXTRACTION DATE: --
ANALYSIS DATE .: 05-05-00

REMARKS -

BFB Surrogate was out of acceptance criteria in the Sample, Method Blank, and Spikes.

Petroleum Contaminants by 8021B

DATA TABLE

Parameter	Result	Unit	Detection Limit
Benzene .....:	<50.	ug/Kg	50.
Toluene .....:	<50.	ug/Kg	50.
Ethylbenzene .....:	<50.	ug/Kg	50.
Total Xylenes .....:	<50.	ug/Kg	50.
Methyl Tert-Butyl Ether .....:	<100	ug/Kg	100

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ANALYTICAL REPORT

CLIENT MEVATEC CORPORATION
P.O. BOX 399
BLDG. 126
WSMR, NM. 88002

SAMPLE NO. : 20001952
INVOICE NO.: 22105658
REPORT DATE: 05-23-00
REVIEWED BY:

D A T A T A B L E (Cont.)

Surrogate Information -

	Percent Recovery	Range
aaa-Trifluorotoluene .....:	98.4	76-115
4-Bromofluorobenzene .....:	10.5	70-126

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CLIENT MEVATEC CORPORATION
P.O. BOX 399
BLDG. 126
WSMR, NM. 88002

SAMPLE NO. 20001953
INVOICE NO.: 22105658
REPORT DATE: 05-23-00
REVIEWED BY:
PAGE : 1 OF 2

CLIENT SAMPLE ID : 2603-5B06-(6.5-7.0)
SAMPLE TYPE .....: Soil
SAMPLED BY .....: --
SUBMITTED BY ....: G.M.
SAMPLE SOURCE ...: HELSTF TSA POL
ANALYST .....: F. Martinez

AUTHORIZED BY : G.W.
CLIENT P.O. : --
SAMPLE DATE ...: 05-03-00
SUBMITTAL DATE : 05-04-00
EXTRACTION DATE: 05-05-00
ANALYSIS DATE .: 05-13-00

REMARKS -

BFB Surrogate was out of acceptance criteria in the Sample, Method Blank, and Spikes.

Petroleum Contaminants by 8021B

DATA TABLE

Parameter	Result	Unit	Detection Limit
Benzene .....:	<50.	ug/Kg	50.
Toluene .....:	<50.	ug/Kg	50.
Ethylbenzene .....:	<50.	ug/Kg	50.
Total Xylenes .....:	<50.	ug/Kg	50.
Methyl Tert-Butyl Ether .....:	<100	ug/Kg	100

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CLIENT MEVATEC CORPORATION
P.O. BOX 399
BLDG. 126
WSMR, NM. 88002

SAMPLE NO. : 20001953
INVOICE NO.: 22105658
REPORT DATE: 05-23-00
REVIEWED BY:

D A T A T A B L E (Cont.)

Surrogate Information -

	Percent Recovery	Range
aaa-Trifluorotoluene	101.0	76-115
4-Bromofluorobenzene	13.3	70-126

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CLIENT MEVATEC CORPORATION
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BLDG. 126
WSMR, NM. 88002

SAMPLE NO.: 20001954
INVOICE NO.: 22105658
REPORT DATE: 05-23-00
REVIEWED BY:
PAGE : 1 OF 2

CLIENT SAMPLE ID : 2603-5B06-(11.5-12.0)
SAMPLE TYPE .....: Soil
SAMPLED BY .....: --
SUBMITTED BY ....: G.M.
SAMPLE SOURCE ...: HELSTF TSA POL
ANALYST .....: F. Martinez

AUTHORIZED BY : G.W.
CLIENT P.O. : --
SAMPLE DATE ...: 05-03-00
SUBMITTAL DATE : 05-04-00
EXTRACTION DATE: --
ANALYSIS DATE .: 05-05-00

REMARKS -

BFB Surrogate was out of acceptance criteria in the Sample, Method Blank, and Spikes.

Petroleum Contaminants by 8021B

D A T A T A B L E

Parameter	Result	Unit	Detection Limit
Benzene .....:	<50.	ug/Kg	50.
Toluene .....:	<50.	ug/Kg	50.
Ethylbenzene .....:	<50.	ug/Kg	50.
Total Xylenes .....:	<50.	ug/Kg	50.
Methyl Tert-Butyl Ether .....:	<100	ug/Kg	100

ANALYTICAL RESULT(S) REPORTED HEREIN APPLY ONLY TO THE SAMPLE(S) TESTED. FURTHERMORE, THIS REPORT CAN ONLY BE COPIED IN ITS ENTIRETY

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Karen Cole
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ANALYTICAL REPORT

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SAMPLE NO. : 20001954
INVOICE NO.: 22105658
REPORT DATE: 05-23-00
REVIEWED BY:
PAGE : 2 OF 2

D A T A T A B L E (Cont.)

Surrogate Information -

	Percent Recovery	Range
aaa-Trifluorotoluene .....:	100.0	76-115
4-Bromofluorobenzene .....:	11.3	70- 16

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WSMR, NM. 88002

SAMPLE NO.: 20001955
INVOICE NO.: 22105658
REPORT DATE: 05-23-00
REVIEWED BY:
PAGE : 1 OF 2

CLIENT SAMPLE ID : 2603-5B06-(16.5-17.0)
SAMPLE TYPE .....: Soil
SAMPLED BY .....: --
SUBMITTED BY ....: G.M.
SAMPLE SOURCE ...: HELSTF TSA POL
ANALYST .....: F. Martinez

AUTHORIZED BY : G.W.
CLIENT P.O. : --
SAMPLE DATE ...: 05-03-00
SUBMITTAL DATE : 05-04-00
EXTRACTION DATE: 05-05-00
ANALYSIS DATE .: 05-13-00

REMARKS -

BFB Surrogate was out of acceptance criteria in the Sample, Method Blank, and Spikes.

Petroleum Contaminants by 8021B

DATA TABLE

Parameter	Result	Unit	Detection Limit
Benzene	<50.	ug/Kg	50.
Toluene	<50.	ug/Kg	50.
Ethylbenzene	<50.	ug/Kg	50.
Total Xylenes	<50.	ug/Kg	50.
Methyl Tert-Butyl Ether	<100	ug/Kg	100

ANALYTICAL RESULT(S) REPORTED HEREIN APPLY ONLY TO THE SAMPLE(S) TESTED. FURTHERMORE, THIS REPORT CAN ONLY BE COPIED IN ITS ENTIRETY.

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Karen Cook
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ANALYTICAL REPORT

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BLDG. 126
WSMR, NM. 88002

SAMPLE NO. : 20001955
INVOICE NO.: 22105658
REPORT DATE: 05-23-00
REVIEWED BY:

D A T A T A B L E (Cont.)

Surrogate Information -

	Percent Recovery	Range
aaa-Trifluorotoluene .....:	102.0	76-115
4-Bromofluorobenzene .....:	12.7	70-126

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ANALYTICAL REPORT

CLIENT MEVATEC CORPORATION
P.O. BOX 399, BLDG 126
WSMR, NM 88002

SAMPLE NO.: 20001956
INVOICE NO.: 22105658
REPORT DATE: 05-24-00
REVIEWED BY:
PAGE : 1 OF 2

CLIENT SAMPLE ID : 2603-5B06-(21.5-22.0)
SAMPLE TYPE .....: Soil
SAMPLED BY .....: --
SUBMITTED BY ....: G.M.
SAMPLE SOURCE ...: HELSTF TSA POL
ANALYST .....: F. Martinez

AUTHORIZED BY : G. Moon
CLIENT P.O. : --
SAMPLE DATE ...: 05-03-00
SUBMITTAL DATE : 05-04-00
EXTRACTION DATE: 05-05-00
ANALYSIS DATE .: 05-15-00

REMARKS -

BFB Surrogate was out of acceptance criteria in the Sample, Method Blank, and Spikes.

Petroleum Contaminants by 8021B

DATA TABLE

Parameter	Result	Unit	Detection Limit
Benzene ..... :	<50.	ug/Kg	50.
Toluene ..... :	<50.	ug/Kg	50.
Ethylbenzene ..... :	<50.	ug/Kg	50.
Total Xylenes ..... :	<50.	ug/Kg	50.
Methyl Tert-Butyl Ether ..... :	<100	ug/Kg	100

ANALYTICAL RESULTS REPORTED HEREIN APPLY ONLY TO THE SAMPLE(S) TESTED. FURTHERMORE, THIS REPORT CAN ONLY BE COPIED IN ITS ENTIRETY

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ANALYTICAL REPORT

CLIENT MEVATEC CORPORATION
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SAMPLE NO. : 20001956
INVOICE NO.: 22105658
REPORT DATE: 05-24-00
REVIEWED BY:

D A T A T A B L E (Cont.)

Surrogate Information -

	Percent Recovery	Range
aaa-Trifluorotoluene .....:	101.0	76-114
4-Bromofluorobenzene .....:	8.2	70-125

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ANALYTICAL REPORT

CLIENT MEVATEC CORPORATION
P.O. BOX 399, BLDG 126
WSMR, NM 88002

SAMPLE NO.: 20001957
INVOICE NO.: 22105658
REPORT DATE: 05-24-00
REVIEWED BY:
PAGE : 1 OF 2

CLIENT SAMPLE ID : 2603-5B06-(26.5-27.0)
SAMPLE TYPE .....: Soil
SAMPLED BY .....: --
SUBMITTED BY ....: G.M.
SAMPLE SOURCE ...: HELSTF TSA POL
ANALYST .....: F. Martinez

AUTHORIZED BY : G. Moon
CLIENT P.O. : --
SAMPLE DATE ...: 05-03-00
SUBMITTAL DATE : 05-04-00
EXTRACTION DATE: 05-05-00
ANALYSIS DATE .: 05-15-00

REMARKS -

BFB Surrogate was out of acceptance criteria in the Sample, Method Blank, and Spikes.

Petroleum Contaminants by 8021B

DATA TABLE

Parameter	Result	Unit	Detection Limit
Benzene .....:	<50.	ug/Kg	50.
Toluene .....:	<50.	ug/Kg	50.
Ethylbenzene .....:	<50.	ug/Kg	50.
Total Xylenes .....:	<50.	ug/Kg	50.
Methyl Tert-Butyl Ether .....:	<100	ug/Kg	100

ANALYTICAL RESULT(S) REPORTED HEREIN APPLY ONLY TO THE SAMPLE(S) TESTED. FURTHERMORE, THIS REPORT CAN ONLY BE COPIED IN ITS ENTIRETY

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SAMPLE NO. : 20001957
INVOICE NO.: 22105658
REPORT DATE: 05-24-00
REVIEWED BY:

D A T A T A B L E (Cont.)

Surrogate Information -

	Percent Recovery	Range
aaa-Trifluorotoluene .....:	100.0	76-114
4-Bromofluorobenzene .....:	9.2	70-125

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E-Mail: lab@traceanalysis.com

CLIENT MEWATER CORPORATION
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WSMR, NM 88002

SAMPLE NO.: 20001958
INVOICE NO.: 22105658
REPORT DATE: 05-24-00
REVIEWED BY:
PAGE : 1 OF 2

CLIENT SAMPLE ID : 2603-5B06-(31.5-32.0)
SAMPLE TYPE .....: Soil
SAMPLED BY .....: --
SUBMITTED BY ....: G.M.
SAMPLE SOURCE ...: HELSTF TSA POL
ANALYST .....: F. Martinez

AUTHORIZED BY : G. Moon
CLIENT P.O. : --
SAMPLE DATE ...: 05-03-00
SUBMITTAL DATE : 05-04-00
EXTRACTION DATE: 05-05-00
ANALYSIS DATE .: 05-15-00

REMARKS -

BFB Surrogate was out of acceptance criteria in the Sample, Method Blank, and Spikes.

Petroleum Contaminants by 8021B

DATA TABLE

Parameter	Result	Unit	Detection Limit
Benzene ..... :	<50.	ug/Kg	50.
Toluene ..... :	<50.	ug/Kg	50.
Ethylbenzene ..... :	<50.	ug/Kg	50.
Total Xylenes ..... :	<50.	ug/Kg	50.
Methyl Tert-Butyl Ether ..... :	<100	ug/Kg	100

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ANALYTICAL REPORT

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SAMPLE NO. : 20001958
INVOICE NO.: 22105658
REPORT DATE: 05-24-00
REVIEWED BY:

D A T A T A B L E (Cont.)

Surrogate Information -

	Percent Recovery	Range
aaa-Trifluorotoluene .....:	102.0	76-114
4-Bromofluorobenzene .....:	8.2	70-125

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ANALYTICAL REPORT

CLIENT MEVATEC CORPORATION
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WSMR, NM 88002

SAMPLE NO.: 20001965
INVOICE NO.: 22105658
REPORT DATE: 05-24-00
REVIEWED BY:

CLIENT SAMPLE ID : 2603-5B07-(1.5-2.0)
SAMPLE TYPE .....: Soil
SAMPLED BY .....: --
SUBMITTED BY ....: G.M.
SAMPLE SOURCE ...: HELSTF TSA POL
ANALYST .....: F. Martinez

AUTHORIZED BY : G. Moon
CLIENT P.O. : --
SAMPLE DATE ...: 05-03-00
SUBMITTAL DATE : 05-04-00
EXTRACTION DATE: 05-05-00
ANALYSIS DATE .: 05-15-00

TPH Gas by Mod 8015

DATA TABLE

Parameter	Result	Unit	Detection Limit
TPH Gas .....:	21.	mg/Kg	20.

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ANALYTICAL RESULT(S) REPORTED HEREIN APPLY ONLY TO THE SAMPLE(S) TESTED. FURTHERMORE, THIS REPORT CAN ONLY BE COPIED IN ITS ENTIRETY

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SAMPLE NO. : 20001965
INVOICE NO.: 22105658
REPORT DATE: 05-24-00
REVIEWED BY:

D A T A T A B L E (Cont.)

Surrogate Information -

	Percent Recovery	Range
1-ChloroOctane ..... :	95.7	37-130

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WSMR, NM 88002

SAMPLE NO.: 20001966
INVOICE NO.: 22105658
REPORT DATE: 05-24-00
REVIEWED BY:

CLIENT SAMPLE ID : 2603-5B07-(6.5-7.0)
SAMPLE TYPE .....: Soil
SAMPLED BY .....: --
SUBMITTED BY ....: G.M.
SAMPLE SOURCE ...: HELSTF TSA POL
ANALYST .....: F. Martinez

AUTHORIZED BY : G. Moon
CLIENT P.O. : --
SAMPLE DATE ...: 05-03-00
SUBMITTAL DATE : 05-04-00
EXTRACTION DATE: 05-05-00
ANALYSIS DATE .: 05-15-00

TPH Gas by Mod 8015

DATA TABLE

Parameter	Result	Unit	Detection Limit
TPH Gas .....:	<20.	mg/Kg	20.

ANALYTICAL RESULT(S) REPORTED HEREIN APPLY ONLY TO THE SAMPLE(S) TESTED. FURTHERMORE, THIS REPORT CAN ONLY BE COPIED IN ITS ENTIRETY

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ANALYTICAL REPORT

CLIENT MEVATEC CORPORATION
P.O. BOX 399, BLDG 126
WSMR, NM 88002

SAMPLE NO. : 20001966
INVOICE NO.: 22105658
REPORT DATE: 05-24-00
REVIEWED BY:

D A T A T A B L E (Cont.)

Surrogate Information -

	Percent Recovery	Range
1-ChloroOctane ..... :	95.7	80-120

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ANALYTICAL REPORT

CLIENT MEVATEC CORPORATION
P.O. BOX 399, BLDG 126
WSMR, NM 88002

SAMPLE NO.: 20001967
INVOICE NO.: 22105658
REPORT DATE: 05-24-00
REVIEWED BY:
PAGE : 1 OF 2

CLIENT SAMPLE ID : 2603-5B07-(11.5-12.0)
SAMPLE TYPE .....: Soil
SAMPLED BY .....: --
SUBMITTED BY ....: G.M.
SAMPLE SOURCE ...: HELSTF TSA POL
ANALYST .....: F. Martinez

AUTHORIZED BY : G. Moon
CLIENT P.O. : --
SAMPLE DATE ...: 05-03-00
SUBMITTAL DATE : 05-04-00
EXTRACTION DATE: 05-05-00
ANALYSIS DATE .: 05-15-00

TPH Gas by Mod 8015

DATA TABLE

Parameter	Result	Unit	Detection Limit
TPH Gas .....:	<20.	mg/Kg	20.

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MANAGING DIRECTOR

ANALYTICAL REPORT

CLIENT MEVATEC CORPORATION
P.O. BOX 399, BLDG 126
WSMR, NM 88002

SAMPLE NO. : 20001967
INVOICE NO.: 22105658
REPORT DATE: 05-24-00
REVIEWED BY:
PAGE : 2 OF 2

D A T A T A B L E (Cont.)

Surrogate Information -

	Percent Recovery	Range
1-ChloroOctane ..... :	87.9	37-130

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ANALYTICAL REPORT

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E-Mail: lab@traceanalysis.com

CLIENT MEWATEC CORPORATION
P.O. BOX 399, BLDG 126
WSMR, NM 88002

SAMPLE NO.: 20001968
INVOICE NO.: 22105658
REPORT DATE: 05-24-00
REVIEWED BY:
PAGE : 1 OF 2

CLIENT SAMPLE ID : 2603-5B07-(16.5-17.0)
SAMPLE TYPE .....: Soil
SAMPLED BY .....: --
SUBMITTED BY ....: G.M.
SAMPLE SOURCE ...: 5ELSTF TSA POL
ANALYST .....: F. Martinez

AUTHORIZED BY : G. Moon
CLIENT P.O. : --
SAMPLE DATE ...: 05-03-00
SUBMITTAL DATE : 05-04-00
EXTRACTION DATE: 05-05-00
ANALYSIS DATE .: 05-15-00

TPH Gas by Mod 8015

DATA TABLE

Parameter	Result	Unit	Detection Limit
TPH Gas	<20.	mg/Kg	20.

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ANALYTICAL RESULT(S) REPORTED HEREIN APPLY ONLY TO THE SAMPLE(S) TESTED. FURTHERMORE, THIS REPORT CAN ONLY BE COPIED IN ITS ENTIRETY

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ANALYTICAL REPORT

CLIENT MEVATEC CORPORATION
P.O. BOX 399, BLDG 126
WSMR, NM 88002

SAMPLE NO. : 20001968
INVOICE NO.: 22105658
REPORT DATE: 05-24-00
REVIEWED BY:

D A T A T A B L E (Cont.)

Surrogate Information -

	Percent Recovery	Range
1-ChloroOctane ..... :	83.0	37-130

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CLIENT MEVATEC CORPORATION
P.O. BOX 399, BLDG 126
WSMR, NM 88002

SAMPLE NO.: 20001969
INVOICE NO.: 22105658
REPORT DATE: 05-24-00
REVIEWED BY:
PAGE : 1 OF 2

CLIENT SAMPLE ID : 2603-5B07-(21.5-22.0)
SAMPLE TYPE .....: soil
SAMPLED BY .....: --
SUBMITTED BY ....: G.M.
SAMPLE SOURCE ...: --
ANALYST .....: F. Martinez

AUTHORIZED BY : G. Moon
CLIENT P.O. : --
SAMPLE DATE ...: 05-03-00
SUBMITTAL DATE : 05-04-00
EXTRACTION DATE: 05-05-00
ANALYSIS DATE .: 05-15-00

TPH Gas by Mod 8015

DATA TABLE

Parameter	Result	Unit	Detection Limit
TPH Gas ..... :	<20.	mg/Kg	20.

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ANALYTICAL REPORT

CLIENT MEVATEC CORPORATION
P.O. BOX 399, BLDG 126
WSMR, NM 88002

SAMPLE NO. : 20001969
INVOICE NO.: 22105658
REPORT DATE: 05-24-00
REVIEWED BY:

D A T A T A B L E (Cont.)

Surrogate Information -

	Percent Recovery	Range
1-ChloroOctane ..... :	83.8	80-120

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CLIENT MEVATEC CORPORATION
P.O. BOX 399, BLDG 126
WSMR, NM 88002

SAMPLE NO.: 20001970
INVOICE NO.: 22105658
REPORT DATE: 05-24-00
REVIEWED BY:
PAGE : 1 OF 2

CLIENT SAMPLE ID : 2603-5B07-(26.5-27.0)
SAMPLE TYPE .....: Soil
SAMPLED BY .....: --
SUBMITTED BY ....: G.M.
SAMPLE SOURCE ...: HELSTF TSA POL
ANALYST .....: F. Martinez

AUTHORIZED BY : G. Moon
CLIENT P.O. : --
SAMPLE DATE ...: 05-03-00
SUBMITTAL DATE : 05-04-00
EXTRACTION DATE: 05-05-00
ANALYSIS DATE .: 05-15-00

TPH Gas by Mod 8015

DATA TABLE

Parameter	Result	Unit	Detection Limit
TPH Gas .....:	<20.	mg/Kg	20.

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Karen Lester
MANAGING DIRECTOR

ANALYTICAL REPORT

CLIENT MEVATEC CORPORATION
P.O. BOX 399, BLDG 126
WSMR, NM 88002

SAMPLE NO. : 20001970
INVOICE NO.: 22105658
REPORT DATE: 05-24-00
REVIEWED BY:

D A T A T A B L E (Cont.)

Surrogate Information -

	Percent Recovery	Range
1-ChloroOctane ..... :	88.0	37-130

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ANALYTICAL REPORT

CLIENT MEWATER CORPORATION
P.O. BOX 399, BLDG 126
WSMR, NM 88002

SAMPLE NO.: 20001971
INVOICE NO.: 22105658
REPORT DATE: 05-24-00
REVIEWED BY:
PAGE : 1 ~~OF 2~~

CLIENT SAMPLE ID : 2603-5B07-(31.5-32.0)
SAMPLE TYPE .....: Soil
SAMPLED BY .....: --
SUBMITTED BY ....: G.M.
SAMPLE SOURCE ...: HELSTF TSA POL
ANALYST .....: F. Martinez

AUTHORIZED BY : G. Moon
CLIENT P.O. : --
SAMPLE DATE ...: 05-03-00
SUBMITTAL DATE : 05-04-00
EXTRACTION DATE: 05-05-00
ANALYSIS DATE .: 05-15-00

TPH Gas by Mod 8015

DATA TABLE

Parameter	Result	Unit	Detection Limit
TPH Gas .....:	<20.	mg/Kg	20.

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ANALYTICAL REPORT

CLIENT MEVATEC CORPORATION
P.O. BOX 399, BLDG 126
WSMR, NM 88002

SAMPLE NO. : 20001971
INVOICE NO.: 22105658
REPORT DATE: 05-24-00
REVIEWED BY:
PAGE : 2 OF 2

D A T A T A B L E (Cont.)

Surrogate Information -

	Percent Recovery	Range
1-ChloroOctane ..... :	88.1	37-130

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ANALYTICAL REPORT

CLIENT MEVATEC CORPORATION
P.O. BOX 399, BLDG 126
WSMR, NM 88002

SAMPLE NO.: 20001965
INVOICE NO.: 22105658
REPORT DATE: 05-24-00
REVIEWED BY:
PAGE : 1 OF 2

CLIENT SAMPLE ID : 2603-5B07-(1.5-2.0)
SAMPLE TYPE .....: Soil
SAMPLED BY .....: --
SUBMITTED BY ....: G.M.
SAMPLE SOURCE ...: HELSTF TSA POL
ANALYST .....: F. Martinez

AUTHORIZED BY : G. Moon
CLIENT P.O. : --
SAMPLE DATE ...: 05-03-00
SUBMITTAL DATE : 05-04-00
EXTRACTION DATE: 05-05-00
ANALYSIS DATE .: 05-15-00

REMARKS -

BFB Surrogate was out of acceptance criteria in the Method Blank, and Spikes.

Petroleum Contaminants by 8021B

DATA TABLE

Parameter	Result	Unit	Detection Limit
Benzene .....:	<50.	ug/Kg	50.
Toluene .....:	<50.	ug/Kg	50.
Ethylbenzene .....:	<50.	ug/Kg	50.
Total Xylenes .....:	<50.	ug/Kg	50.
Methyl Tert-Butyl Ether .....:	<100	ug/Kg	100

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ANALYTICAL REPORT

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WSMR, NM 88002

SAMPLE NO. : 20001965
INVOICE NO.: 22105658
REPORT DATE: 05-24-00
REVIEWED BY:

D A T A T A B L E (Cont.)

Surrogate Information -

	Percent Recovery	Range
aaa-Trifluorotoluene .....:	101.0	76-114
4-Bromofluorobenzene .....:	82.8	70-125

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ANALYTICAL REPORT

CLIENT MEWATER CORPORATION
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WSMR, NM 88002

SAMPLE NO.: 20001966
INVOICE NO.: 22105658
REPORT DATE: 05-24-00
REVIEWED BY:
PAGE : 1 OF 2

CLIENT SAMPLE ID : 2603-5B07-(6.5-7.0)
SAMPLE TYPE .....: Soil
SAMPLED BY .....: --
SUBMITTED BY ....: G.M.
SAMPLE SOURCE ...: HELSTF TSA POL
ANALYST .....: F. Martinez

AUTHORIZED BY : G. Moon
CLIENT P.O. : --
SAMPLE DATE ...: 05-03-00
SUBMITTAL DATE : 05-04-00
EXTRACTION DATE: 05-05-00
ANALYSIS DATE .: 05-15-00

REMARKS -

BFB Surrogate was out of acceptance criteria in the Method Blank, and Spikes.

Petroleum Contaminants by 8021B

DATA TABLE

Parameter	Result	Unit	Detection Limit
Benzene	<50.	ug/Kg	50.
Toluene	<50.	ug/Kg	50.
Ethylbenzene	<50.	ug/Kg	50.
Total Xylenes	<50.	ug/Kg	50.
Methyl Tert-Butyl Ether	<100	ug/Kg	100

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Karen Cobb
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WSMR, NM 88002

SAMPLE NO. : 20001966
INVOICE NO.: 22105658
REPORT DATE: 05-24-00
REVIEWED BY:

D A T A T A B L E (Cont.)

Surrogate Information -

	Percent Recovery	Range
aaa-Trifluorotoluene .....:	101.0	76-114
4-Bromofluorobenzene .....:	81.4	70-125

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ANALYTICAL REPORT

CLIENT MEVATEC CORPORATION
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SAMPLE NO.: 20001967
INVOICE NO.: 22105658
REPORT DATE: 05-24-00
REVIEWED BY:
PAGE : 1 OF 2

CLIENT SAMPLE ID : 2603-5B07-(11.5-12.0)
SAMPLE TYPE .....: Soil
SAMPLED BY .....: --
SUBMITTED BY ....: G.M.
SAMPLE SOURCE ...: HELSTF TSA POL
ANALYST .....: F. Martinez

AUTHORIZED BY : G. Moon
CLIENT P.O. : --
SAMPLE DATE ...: 05-03-00
SUBMITTAL DATE : 05-04-00
EXTRACTION DATE: 05-05-00
ANALYSIS DATE .: 05-15-00

REMARKS -

BFB Surrogate was out of acceptance criteria in the Method Blank, and Spikes.

Petroleum Contaminants by 8021B

DATA TABLE

Parameter	Result	Unit	Detection Limit
Benzene .....:	<50.	ug/Kg	50.
Toluene .....:	<50.	ug/Kg	50.
Ethylbenzene .....:	<50.	ug/Kg	50.
Total Xylenes .....:	<50.	ug/Kg	50.
Methyl Tert-Butyl Ether .....:	<100	ug/Kg	100

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WSMR, NM 88002

SAMPLE NO. : 20001967
INVOICE NO.: 22105658
REPORT DATE: 05-24-00
REVIEWED BY:

D A T A T A B L E (Cont.)

Surrogate Information -

	Percent Recovery	Range
aaa-Trifluorotoluene .....:	102.0	76-114
4-Bromofluorobenzene .....:	81.9	70-125

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CLIENT MEVATEC CORPORATION
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WSMR, NM 88002

SAMPLE NO.: 20001968
INVOICE NO.: 22105658
REPORT DATE: 05-24-00
REVIEWED BY:
PAGE : 1 OF 2

CLIENT SAMPLE ID : 2603-5B07-(16.5-17.0)
SAMPLE TYPE .....: Soil
SAMPLED BY .....: --
SUBMITTED BY ....: G.M.
SAMPLE SOURCE ...: 5ELSTF TSA POL
ANALYST .....: F. Martinez

AUTHORIZED BY : G. Moon
CLIENT P.O. : --
SAMPLE DATE ...: 05-03-00
SUBMITTAL DATE : 05-04-00
EXTRACTION DATE: 05-05-00
ANALYSIS DATE .: 05-15-00

REMARKS -

BFB Surrogate was out of acceptance criteria in the Method Blank, and Spikes.

Petroleum Contaminants by 8021B

DATA TABLE

Parameter	Result	Unit	Detection Limit
Benzene .....:	<50.	ug/Kg	50.
Toluene .....:	<50.	ug/Kg	50.
Ethylbenzene .....:	<50.	ug/Kg	50.
Total Xylenes .....:	<50.	ug/Kg	50.
Methyl Tert-Butyl Ether .....:	<100	ug/Kg	100

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ANALYTICAL REPORT

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WSMR, NM 88002

SAMPLE NO. : 20001968
INVOICE NO.: 22105658
REPORT DATE: 05-24-00
REVIEWED BY:

D A T A T A B L E (Cont.)

Surrogate Information -

	Percent Recovery	Range
aaa-Trifluorotoluene .....:	101.0	76-114
4-Bromofluorobenzene .....:	79.1	70-125

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ANALYTICAL REPORT

CLIENT MEVATEC CORPORATION
P.O. BOX 399, BLDG 126
WSMR, NM 88002

SAMPLE NO.: 20001969
INVOICE NO.: 22105658
REPORT DATE: 05-24-00
REVIEWED BY:
PAGE : 1 OF 2

CLIENT SAMPLE ID : 2603-5B07-(21.5-22.0)
SAMPLE TYPE .....: soil
SAMPLED BY .....: --
SUBMITTED BY ....: G.M.
SAMPLE SOURCE ...: --
ANALYST .....: F. Martinez

AUTHORIZED BY : G. Moon
CLIENT P.O. : --
SAMPLE DATE ...: 05-03-00
SUBMITTAL DATE : 05-04-00
EXTRACTION DATE: 05-05-00
ANALYSIS DATE .: 05-15-00

REMARKS -

BFB Surrogate was out of acceptance criteria in the Method Blank, and Spikes.

Petroleum Contaminants by 8021B

DATA TABLE

Parameter	Result	Unit	Detection Limit
Benzene	<50.	ug/Kg	50.
Toluene	<50.	ug/Kg	50.
Ethylbenzene	<50.	ug/Kg	50.
Total Xylenes	<50.	ug/Kg	50.
Methyl Tert-Butyl Ether	<100	ug/Kg	100

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Karen Cook
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ANALYTICAL REPORT

CLIENT MEVATEC CORPORATION
P.O. BOX 399, BLDG 126
WSMR, NM 88002

SAMPLE NO. : 20001969
INVOICE NO.: 22105658
REPORT DATE: 05-24-00
REVIEWED BY:

D A T A T A B L E (Cont.)

Surrogate Information -

	Percent Recovery	Range
aaa-Trifluorotoluene .....:	104.0	76-114
4-Bromofluorobenzene .....:	82.4	70-125

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ANALYTICAL REPORT

CLIENT MEVATEC CORPORATION
P.O. BOX 399, BLDG 126
WSMR, NM 88002

SAMPLE NO.: 20001970
INVOICE NO.: 22105658
REPORT DATE: 05-24-00
REVIEWED BY:
PAGE : 1 OF 2

CLIENT SAMPLE ID : 2603-5B07-(26.5-27.0)
SAMPLE TYPE .....: Soil
SAMPLED BY .....: --
SUBMITTED BY ....: G.M.
SAMPLE SOURCE ...: HELSTF TSA POL
ANALYST .....: F. Martinez

AUTHORIZED BY : G. Moon
CLIENT P.O. : --
SAMPLE DATE ...: 05-03-00
SUBMITTAL DATE : 05-04-00
EXTRACTION DATE: 05-05-00
ANALYSIS DATE .: 05-15-00

REMARKS -

BFB Surrogate was out of acceptance criteria in the Method Blank, and Spikes.

Petroleum Contaminants by 8021B

DATA TABLE

Parameter	Result	Unit	Detection Limit
Benzene .....:	<50.	ug/Kg	50.
Toluene .....:	<50.	ug/Kg	50.
Ethylbenzene .....:	<50.	ug/Kg	50.
Total Xylenes .....:	<50.	ug/Kg	50.
Methyl Tert-Butyl Ether .....:	<100	ug/Kg	100

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SAMPLE NO. : 20001970
INVOICE NO.: 22105658
REPORT DATE: 05-24-00
REVIEWED BY:

D A T A T A B L E (Cont.)

Surrogate Information -

	Percent Recovery	Range
aaa-Trifluorotoluene .....:	101.0	76-114
4-Bromofluorobenzene .....:	81.1	70-125

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ANALYTICAL REPORT

CLIENT MEVATEC CORPORATION
P.O. BOX 399, BLDG 126
WSMR, NM 88002

SAMPLE NO.: 20001971
INVOICE NO.: 22105658
REPORT DATE: 05-24-00
REVIEWED BY:
PAGE : 1 OF 2

CLIENT SAMPLE ID : 2603-5B07-(31.5-32.0)
SAMPLE TYPE .....: Soil
SAMPLED BY .....: --
SUBMITTED BY ....: G.M.
SAMPLE SOURCE ...: HELSTF TSA POL
ANALYST .....: F. Martinez

AUTHORIZED BY : G. Moon
CLIENT P.O. : --
SAMPLE DATE ...: 05-03-00
SUBMITTAL DATE : 05-04-00
EXTRACTION DATE: 05-05-00
ANALYSIS DATE .: 05-15-00

REMARKS -

BFB Surrogate was out of acceptance criteria in the Method Blank, and Spikes.

Petroleum Contaminants by 8021B

DATA TABLE

Parameter	Result	Unit	Detection Limit
Benzene .....:	<50.	ug/Kg	50.
Toluene .....:	<50.	ug/Kg	50.
Ethylbenzene .....:	<50.	ug/Kg	50.
Total Xylenes .....:	<50.	ug/Kg	50.
Methyl Tert-Butyl Ether .....:	<100	ug/Kg	100

ANALYTICAL RESULT(S) REPORTED HEREIN APPLY ONLY TO THE SAMPLE(S) TESTED. FURTHERMORE, THIS REPORT CAN ONLY BE COPIED IN ITS ENTIRETY

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WSMR, NM 88002

SAMPLE NO. : 20001971
INVOICE NO.: 22105658
REPORT DATE: 05-24-00
REVIEWED BY:

D A T A T A B L E (Cont.)

Surrogate Information -

	Percent Recovery	Range
aaa-Trifluorotoluene .....:	98.7	76-114
4-Bromofluorobenzene .....:	82.9	70-125

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ANALYTICAL REPORT

CLIENT MEVATEC CORPORATION
P.O. BOX 399, BLDG 126
WSMR, NM 88002

SAMPLE NO.: 20002011
INVOICE NO.: 22105666
REPORT DATE: 05-24-00
REVIEWED BY:
PAGE : 1 OF 2

CLIENT SAMPLE ID :	26030-SB08-(1.5-2.0)	AUTHORIZED BY :	G. Moon
SAMPLE TYPE .....:	Soil	CLIENT P.O. :	--
SAMPLED BY .....:	--	SAMPLE DATE ...:	05-04-00
SUBMITTED BY ....:	G.M.	SUBMITTAL DATE :	05-05-00
SAMPLE SOURCE ...:	HELSTF TBA POL INVESTIGAT	EXTRACTION DATE:	05-05-00
ANALYST .....:	F. Martinez	ANALYSIS DATE .:	05-16-00

TPH Gas by Mod 8015

DATA TABLE

Parameter	Result	Unit	Detection Limit
TPH Gas .....:	<20.	mg/Kg	20.

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CLIENT MEVATEC CORPORATION
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SAMPLE NO. : 20002011
INVOICE NO.: 22105666
REPORT DATE: 05-24-00
REVIEWED BY:

D A T A T A B L E (Cont.)

Surrogate Information -

	Percent Recovery	Range
1-ChloroOctane ..... :	89.9	37-130

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ANALYTICAL REPORT

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4171 Bradley Avenue, Suite 7 El Paso, Texas 79922 888•588•3443 915•585•3443 FAX 915•585•4944
E-Mail: lab@traceanalysis.com

CLIENT MEVATEC CORPORATION
P.O. BOX 399, BLDG 126
WSMR, NM 88002

SAMPLE NO.: 20002012
INVOICE NO.: 22105666
REPORT DATE: 05-24-00
REVIEWED BY:
PAGE : 1 OF 2

CLIENT SAMPLE ID : 26030-SB08-(6.5-7.0)
SAMPLE TYPE .....: Soil
SAMPLED BY .....: --
SUBMITTED BY ....: G.M.
SAMPLE SOURCE ...: HELSTF TBA POL INVESTIGAT
ANALYST .....: F. Martinez

AUTHORIZED BY : G. Moon
CLIENT P.O. : --
SAMPLE DATE ...: 05-04-00
SUBMITTAL DATE : 05-05-00
EXTRACTION DATE: 05-05-00
ANALYSIS DATE .: 05-16-00

TPH Gas by Mod 8015

DATA TABLE

Parameter	Result	Unit	Detection Limit
TPH Gas	<20.	mg/Kg	20.

(1) Copy to Client

ANALYTICAL RESULT(S) REPORTED HEREIN APPLY ONLY TO THE SAMPLE(S) TESTED. FURTHERMORE, THIS REPORT CAN ONLY BE COPIED IN ITS ENTIRETY.

MANAGING DIRECTOR

ANALYTICAL REPORT

CLIENT MEVATEC CORPORATION
P.O. BOX 399, BLDG 126
WSMR, NM 88002

SAMPLE NO. : 20002012
INVOICE NO.: 22105666
REPORT DATE: 05-24-00
REVIEWED BY:

D A T A T A B L E (Cont.)

Surrogate Information -

	Percent Recovery	Range
1-ChloroOctane .....:	91.2	37-130

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CLIENT MEWATEC CORPORATION
P.O. BOX 399, BLDG 126
WSMR, NM 88002

SAMPLE NO.: 20002013
INVOICE NO.: 22105666
REPORT DATE: 05-24-00
REVIEWED BY:
PAGE : 1 OF 2

CLIENT SAMPLE ID : 26030-SB08-(11.5-12.0)
SAMPLE TYPE .....: Soil
SAMPLED BY .....: --
SUBMITTED BY ....: G.M.
SAMPLE SOURCE ...: HELSTF TBA POL INVESTIGAT
ANALYST .....: F. Martinez

AUTHORIZED BY : G. Moon
CLIENT P.O. : --
SAMPLE DATE ...: 05-04-00
SUBMITTAL DATE : 05-05-00
EXTRACTION DATE: 05-05-00
ANALYSIS DATE .: 05-16-00

TPH Gas by Mod 8015

DATA TABLE

Parameter	Result	Unit	Detection Limit
TPH Gas .....:	<20.	mg/Kg	20.

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P.O. BOX 399, BLDG 126
WSMR, NM 88002

SAMPLE NO. : 20002013
INVOICE NO.: 22105666
REPORT DATE: 05-24-00
REVIEWED BY:

D A T A T A B L E (Cont.)

Surrogate Information -

	Percent Recovery	Range
1-ChloroOctane ..... :	102.0	37-130

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CLIENT MEWATER CORPORATION
P.O. BOX 399, BLDG 126
WSMR, NM 88002

SAMPLE NO.: 20002014
INVOICE NO.: 22105666
REPORT DATE: 05-24-00
REVIEWED BY:
PAGE : 1 OF 2

CLIENT SAMPLE ID :	26030-SB08-(16.5 17.0)	AUTHORIZED BY :	G. Moon
SAMPLE TYPE .....:	Soil	CLIENT P.O. :	--
SAMPLED BY .....:	--	SAMPLE DATE ...:	05-04-00
SUBMITTED BY ....:	G.M.	SUBMITTAL DATE :	05-05-00
SAMPLE SOURCE ...:	HELSTF TBA POL INVESTIGAT	EXTRACTION DATE:	05-05-00
ANALYST .....:	F. Martinez	ANALYSIS DATE .:	05-16-00

TPH Gas by Mod 8015

DATA TABLE

Parameter	Result	Unit	Detection Limit
TPH Gas .....:	<20.	mg/Kg	20.

ANALYTICAL RESULT(S) REPORTED HEREIN APPLY ONLY TO THE SAMPLE(S) TESTED. FURTHERMORE, THIS REPORT CAN ONLY BE COPIED IN ITS ENTIRETY

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WSMR, NM 88002

SAMPLE NO. : 20002014
INVOICE NO.: 22105666
REPORT DATE: 05-24-00
REVIEWED BY:

D A T A T A B L E (Cont.)

Surrogate Information -

	Percent Recovery	Range
1-ChloroOctane ..... :	98.9	37-130

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SAMPLE NO.: 20002015
INVOICE NO.: 22105666
REPORT DATE: 05-24-00
REVIEWED BY:
PAGE : 1 OF 2

CLIENT SAMPLE ID :	26030-SB08-(21.5-22.0)	AUTHORIZED BY :	G. Moon
SAMPLE TYPE .....:	Soil	CLIENT P.O. :	--
SAMPLED BY .....:	--	SAMPLE DATE ...:	05-04-00
SUBMITTED BY ....:	G.M.	SUBMITTAL DATE :	05-05-00
SAMPLE SOURCE ...:	HELSTF TBA POL INVESTIGAT	EXTRACTION DATE:	05-05-00
ANALYST .....:	F. Martinez	ANALYSIS DATE .:	05-16-00

TPH Gas by Mod 8015

DATA TABLE

Parameter	Result	Unit	Detection Limit
TPH Gas .....:	<20.	mg/Kg	20.

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SAMPLE NO. : 20002015
INVOICE NO.: 22105666
REPORT DATE: 05-24-00
REVIEWED BY:

D A T A T A B L E (Cont.)

Surrogate Information -

	Percent Recovery	Range
1-ChloroOctane ..... :	103.0	37-130

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ANALYTICAL REPORT

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CLIENT MEVATEC CORPORATION
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SAMPLE NO.: 20002016
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REPORT DATE: 05-24-00
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PAGE : 1 OF 2

CLIENT SAMPLE ID : 26030-SB08-(26.5-27.0)
SAMPLE TYPE .....: Soil
SAMPLED BY .....: --
SUBMITTED BY ....: G.M.
SAMPLE SOURCE ...: HELSTF TBA POL INVESTIGAT
ANALYST .....: F. Martinez

AUTHORIZED BY : G. Moon
CLIENT P.O. : --
SAMPLE DATE ...: 05-04-00
SUBMITTAL DATE : 05-05-00
EXTRACTION DATE: 05-05-00
ANALYSIS DATE .: 05-16-00

TPH Gas by Mod 8015

DATA TABLE

Parameter	Result	Unit	Detection Limit
TPH Gas	<20.	mg/Kg	20.

ANALYTICAL RESULTS REPORTED HEREIN APPLY ONLY TO THE SAMPLES TESTED. FURTHERMORE, THIS REPORT CAN ONLY BE COPIED IN ITS ENTIRETY

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ANALYTICAL REPORT

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P.O. BOX 399, BLDG 126
WSMR, NM 88002

SAMPLE NO. : 20002016
INVOICE NO.: 22105666
REPORT DATE: 05-24-00
REVIEWED BY:

D A T A T A B L E (Cont.)

Surrogate Information -

	Percent Recovery	Range
1-ChloroOctane ..... :	109.0	37-130

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ANALYTICAL REPORT

CLIENT MEWATER CORPORATION
P.O. BOX 399, BLDG 126
WSMR, NM 88002

SAMPLE NO.: 20002017
INVOICE NO.: 22105666
REPORT DATE: 05-24-00
REVIEWED BY:
PAGE : 1 OF 2

CLIENT SAMPLE ID : 26030-SB08-(31.5-32.0)
SAMPLE TYPE .....: Soil
SAMPLED BY .....: --
SUBMITTED BY ....: G.M.
SAMPLE SOURCE ...: HELSTF TBA POL INVESTIGAT
ANALYST .....: F. Martinez

AUTHORIZED BY : G. Moon
CLIENT P.O. : --
SAMPLE DATE ...: 05-04-00
SUBMITTAL DATE : 05-05-00
EXTRACTION DATE: 05-05-00
ANALYSIS DATE .: 05-16-00

TPH Gas by Mod 8015

DATA TABLE

Parameter	Result	Unit	Detection Limit
TPH Gas	<20.	mg/Kg	20.

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ANALYTICAL RESULT(S) REPORTED HEREIN APPLY ONLY TO THE SAMPLE(S) TESTED. FURTHERMORE, THIS REPORT CAN ONLY BE COPIED IN ITS ENTIRETY

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CLIENT MEVATEC CORPORATION
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WSMR, NM 88002

SAMPLE NO. : 20002017
INVOICE NO.: 22105666
REPORT DATE: 05-24-00
REVIEWED BY: K

D A T A T A B L E (Cont.)

Surrogate Information -

	Percent Recovery	Range
1-ChloroOctane ..... :	104.0	37-130

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CLIENT MEVATEC CORPORATION
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WSMR, NM 88002

SAMPLE NO.: 20002011
INVOICE NO.: 22105666
REPORT DATE: 05-24-00
REVIEWED BY:
PAGE : 1 OF 2

CLIENT SAMPLE ID : 26030-SB08-(1.5-2.0)
SAMPLE TYPE .....: Soil
SAMPLED BY .....: --
SUBMITTED BY ....: G.M.
SAMPLE SOURCE ...: HELSTF TBA POL INVESTIGAT
ANALYST .....: B. Murphy

AUTHORIZED BY : G. Moon
CLIENT P.O. : --
SAMPLE DATE ...: 05-04-00
SUBMITTAL DATE : 05-05-00
EXTRACTION DATE: 05-05-00
ANALYSIS DATE .: 05-15-00

REMARKS -

Laboratory Control Sample Duplicate was run outside of 12 hour analytical clock for MTBE.

Method 8260/5035 - Volatile Organics Soil

DATA TABLE

Parameter	Result	Unit	Detection Limit
MTBE	<50.	ug/Kg	50
Benzene	<50.	ug/Kg	50.
Toluene	<50.	ug/Kg	50.
Ethylbenzene	<75.	ug/Kg	75.
m,p-Xylene	<175.	ug/Kg	175
o-Xylene	<75.	ug/Kg	75.

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WSMR, NM 88002

SAMPLE NO. : 20002011
INVOICE NO.: 22105666
REPORT DATE: 05-24-00
REVIEWED BY:

D A T A T A B L E (Cont.)

Surrogate Information -

	Percent Recovery	Range
Dibromofluoromethane .....:	91.0	58-103
Toluene-d8 .....:	97.2	75-108
4-Bromofluorobenzene .....:	98.6	71-107

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ANALYTICAL REPORT

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P.O. BOX 399, BLDG 126
WSMR, NM 88002

SAMPLE NO.: 20002012
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REPORT DATE: 05-24-00
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PAGE : 1 OF 2

CLIENT SAMPLE ID : 26030-SB08-(6.5-7.0)
SAMPLE TYPE .....: Soil
SAMPLED BY .....: --
SUBMITTED BY ....: G.M.
SAMPLE SOURCE ...: HELSTF TBA POL INVESTIGAT
ANALYST .....: B. Murphy

AUTHORIZED BY : G. Moon
CLIENT P.O. : --
SAMPLE DATE ...: 05-04-00
SUBMITTAL DATE : 05-05-00
EXTRACTION DATE: 05-05-00
ANALYSIS DATE .: 05-15-00

REMARKS -

Laboratory Control Sample Duplicate was run outside of 12 hour analytical clock for MTBE.

Method 8260/5035 - Volatile Organics Soil

DATA TABLE

Parameter	Result	Unit	Detection Limit
MTBE	<50.	ug/Kg	50
Benzene	<50.	ug/Kg	50.
Toluene	<50.	ug/Kg	50.
Ethylbenzene	<75.	ug/Kg	75.
m,p-Xylene	<175.	ug/Kg	175
o-Xylene	<75.	ug/Kg	75.

ANALYTICAL RESULT(S) REPORTED HEREIN APPLY ONLY TO THE SAMPLE(S) TESTED. FURTHERMORE, THIS REPORT CAN ONLY BE COPIED IN ITS ENTIRETY

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WSMR, NM 88002

SAMPLE NO. : 20002012
INVOICE NO.: 22105666
REPORT DATE: 05-24-00
REVIEWED BY:

D A T A T A B L E (Cont.)

Surrogate Information -

	Percent Recovery	Range
Dibromofluoromethane .....:	86.4	58-103
Toluene-d8 .....:	94.0	75-108
4-Bromofluorobenzene .....:	95.2	71-107

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CLIENT MEVATEC CORPORATION
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SAMPLE NO.: 20002013
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REPORT DATE: 05-24-00
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PAGE : 1 OF 2

CLIENT SAMPLE ID : 26030-SB08-(11.5-12.0)
SAMPLE TYPE .....: Soil
SAMPLED BY .....: --
SUBMITTED BY ....: G.M.
SAMPLE SOURCE ...: HELSTF TBA POL INVESTIGAT
ANALYST .....: B. Murphy

AUTHORIZED BY : G. Moon
CLIENT P.O. : --
SAMPLE DATE ...: 05-04-00
SUBMITTAL DATE : 05-05-00
EXTRACTION DATE: 05-05-00
ANALYSIS DATE .: 05-15-00

REMARKS -

Laboratory Control Sample Duplicate was run outside of 12 hour analytical clock for MTBE.

Method 8260/5035 - Volatile Organics Soil

DATA TABLE

Parameter	Result	Unit	Detection Limit
MTBE	<50.	ug/Kg	50
Benzene	<50.	ug/Kg	50.
Toluene	<50.	ug/Kg	50.
Ethylbenzene	<75.	ug/Kg	75.
m,p-Xylene	<175	ug/Kg	175
o-Xylene	<75.	ug/Kg	75.

ANALYTICAL RESULT(S) REPORTED HEREIN APPLY ONLY TO THE SAMPLE(S) TESTED. FURTHERMORE, THIS REPORT CAN ONLY BE COPIED IN ITS ENTIRETY

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Karen Cook
MANAGING DIRECTOR

ANALYTICAL REPORT

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P.O. BOX 399, BLDG 126
WSMR, NM 88002

SAMPLE NO. : 20002013
INVOICE NO.: 22105666
REPORT DATE: 05-24-00
REVIEWED BY:

D A T A T A B L E (Cont.)

Surrogate Information -

	Percent Recovery	Range
Dibromofluoromethane .....:	92.0	58-103
Toluene-d8 .....:	94.4	75-108
4-Bromofluorobenzene .....:	94.4	71-107

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ANALYTICAL REPORT

CLIENT MEWATER CORPORATION
P.O. BOX 399, BLDG 126
WSMR, NM 88002

SAMPLE NO.: 20002014
INVOICE NO.: 22105666
REPORT DATE: 05-24-00
REVIEWED BY:
PAGE : 1 OF 2

CLIENT SAMPLE ID : 26030-SB08-(16.5 17.0)
SAMPLE TYPE .....: Soil
SAMPLED BY .....: --
SUBMITTED BY ....: G.M.
SAMPLE SOURCE ...: HELSTF TBA POL INVESTIGAT
ANALYST .....: B. Murphy

AUTHORIZED BY : G. Moon
CLIENT P.O. : --
SAMPLE DATE ...: 05-04-00
SUBMITTAL DATE : 05-05-00
EXTRACTION DATE: 05-05-00
ANALYSIS DATE .: 05-15-00

REMARKS -

Laboratory Control Sample Duplicate was run outside of 12 hour analytical clock for MTBE.

Method 8260/5035 - Volatile Organics Soil

DATA TABLE

Parameter	Result	Unit	Detection Limit
MTBE	<50.	ug/Kg	50
Benzene	<50.	ug/Kg	50.
Toluene	<50.	ug/Kg	50.
Ethylbenzene	<75.	ug/Kg	75.
m,p-Xylene	<175	ug/Kg	175
o-Xylene	<75.	ug/Kg	75.

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PAGE : 2 OF 2

D A T A T A B L E (Cont.)

Surrogate Information -

	Percent Recovery	Range
Dibromofluoromethane ..... :	96.6	58-103
Toluene-d8 ..... :	98.0	75-108
4-Bromofluorobenzene ..... :	95.4	71-107

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CLIENT SAMPLE ID : 26030-SB08-(21.5-22.0)
SAMPLE TYPE .....: Soil
SAMPLED BY .....: --
SUBMITTED BY ....: G.M.
SAMPLE SOURCE ...: HELSTF TBA POL INVESTIGAT
ANALYST .....: F. Martinez

AUTHORIZED BY : G. Moon
CLIENT P.O. : --
SAMPLE DATE ...: 05-04-00
SUBMITTAL DATE : 05-05-00
EXTRACTION DATE: 05-05-00
ANALYSIS DATE .: 05-16-00

REMARKS -

Surrogate BFB was out of acceptance criteria in the Method Blank and Spikes.

Petroleum Contaminants by 8021B

DATA TABLE

Parameter	Result	Unit	Detection Limit
Benzene .....:	<50.	ug/Kg	50.
Toluene .....:	61.	ug/Kg	50.
Ethylbenzene .....:	<50.	ug/Kg	50.
Total Xylenes .....:	<50.	ug/Kg	50.
Methyl Tert-Butyl Ether .....:	<100.	ug/Kg	100.

ANALYTICAL RESULT(S) REPORTED HEREIN APPLY ONLY TO THE SAMPLE(S) TESTED. FURTHERMORE, THIS REPORT CAN ONLY BE COPIED IN ITS ENTIRETY

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Karen Cosby
MANAGING DIRECTOR

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REPORT DATE: 05-24-00
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D A T A T A B L E (Cont.)

Surrogate Information -

	Percent Recovery	Range
aaa-Trifluorotoluene .....:	99.2	70-114
4-Bromofluorobenzene .....:	90.5	76-125

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CLIENT SAMPLE ID : 26030-SB08-(26.5-27.0)
SAMPLE TYPE .....: Soil
SAMPLED BY .....: --
SUBMITTED BY ....: G.M.
SAMPLE SOURCE ...: HELSTF TBA POL INVESTIGAT
ANALYST .....: F. Martinez

AUTHORIZED BY : G. Moon
CLIENT P.O. : --
SAMPLE DATE ...: 05-04-00
SUBMITTAL DATE : 05-05-00
EXTRACTION DATE: 05-05-00
ANALYSIS DATE .: 05-16-00

REMARKS -

Surrogate BFB was out of acceptance criteria in the Method Blank and Spikes.

Petroleum Contaminants by 8021B

DATA TABLE

Parameter	Result	Unit	Detection Limit
Benzene .....:	<50.	ug/Kg	50.
Toluene .....:	<50.	ug/Kg	50.
Ethylbenzene .....:	<50.	ug/Kg	50.
Total Xylenes .....:	<50.	ug/Kg	50.
Methyl Tert-Butyl Ether .....:	<100.	ug/Kg	100.

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SAMPLE NO. : 20002016
INVOICE NO.: 22105666
REPORT DATE: 05-24-00
REVIEWED BY:

D A T A T A B L E (Cont.)

Surrogate Information -

	Percent Recovery	Range
aaa-Trifluorotoluene .....:	98.4	70-114
4-Bromofluorobenzene .....:	97.4	76-125

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ANALYTICAL REPORT

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INVOICE NO.: 22105666
REPORT DATE: 05-24-00
REVIEWED BY:
PAGE : 1 OF 2

CLIENT SAMPLE ID : 26030-SB08-(31.5-32.0)
SAMPLE TYPE .....: Soil
SAMPLED BY .....: --
SUBMITTED BY ....: G.M.
SAMPLE SOURCE ...: HELSTF TBA POL INVESTIGAT
ANALYST .....: F. Martinez

AUTHORIZED BY : G. Moon
CLIENT P.O. : --
SAMPLE DATE ...: 05-04-00
SUBMITTAL DATE : 05-05-00
EXTRACTION DATE: 05-05-00
ANALYSIS DATE .: 05-16-00

REMARKS -

Surrogate BFB was out of acceptance criteria in the Method Blank and Spikes.

Petroleum Contaminants by 8021B

DATA TABLE

Parameter	Result	Unit	Detection Limit
Benzene .....:	<50.	ug/Kg	50.
Toluene .....:	<50.	ug/Kg	50.
Ethylbenzene .....:	<50.	ug/Kg	50.
Total Xylenes .....:	<50.	ug/Kg	50.
Methyl Tert-Butyl Ether .....:	<100.	ug/Kg	100.

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MANAGING DIRECTOR

ANALYTICAL REPORT

CLIENT MEVATEC CORPORATION
P.O. BOX 399, BLDG 126
WSMR, NM 88002

SAMPLE NO. : 20002017
INVOICE NO.: 22105666
REPORT DATE: 05-24-00
REVIEWED BY:

D A T A T A B L E (Cont.)

Surrogate Information -

	Percent Recovery	Range
aaa-Trifluorotoluene .....:	100.0	76-114
4-Bromofluorobenzene .....:	85.8	70-125

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E-Mail: lab@traceanalysis.com

ANALYTICAL REPORT

CLIENT MEVATEC CORPORATION
P.O. BOX 399, BLDG 126
WSMR, NM 88002

SAMPLE NO.: 20002018
INVOICE NO.: 22105666
REPORT DATE: 05-24-00
REVIEWED BY:
PAGE : 1 OF 2

CLIENT SAMPLE ID : 26030-SB09-(1.5-2.0)
SAMPLE TYPE .....: Soil
SAMPLED BY .....: --
SUBMITTED BY ....: G.M.
SAMPLE SOURCE ...: HELSTF TBA POL INVESTIGAT
ANALYST .....: F. Martinez

AUTHORIZED BY : G. Moon
CLIENT P.O. : --
SAMPLE DATE ...: 05-04-00
SUBMITTAL DATE : 05-05-00
EXTRACTION DATE: 05-05-00
ANALYSIS DATE .: 05-16-00

TPH Gas by Mod 8015

DATA TABLE

Parameter	Result	Unit	Detection Limit
TPH Gas .....:	<20.	mg/Kg	20.

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ANALYTICAL RESULT(S) REPORTED HEREIN APPLY ONLY TO THE SAMPLE(S) TESTED. FURTHERMORE, THIS REPORT CAN ONLY BE COPIED IN ITS ENTIRETY

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ANALYTICAL REPORT

CLIENT MEVATEC CORPORATION
P.O. BOX 399, BLDG 126
WSMR, NM 88002

SAMPLE NO. : 20002018
INVOICE NO.: 22105666
REPORT DATE: 05-24-00
REVIEWED BY:

D A T A T A B L E (Cont.)

Surrogate Information -

	Percent Recovery	Range
1-ChloroOctane ..... :	101.0	37-130

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E-Mail: lab@traceanalysis.com

ANALYTICAL REPORT

CLIENT MEVATEC CORPORATION
P.O. BOX 399, BLDG 126
WSMR, NM 88002

SAMPLE NO.: 20002019
INVOICE NO.: 22105666
REPORT DATE: 05-24-00
REVIEWED BY:
PAGE : 1 OF 2

CLIENT SAMPLE ID : 26030-SB09-(6.5-7.0)
SAMPLE TYPE .....: Soil
SAMPLED BY .....: --
SUBMITTED BY ....: G.M.
SAMPLE SOURCE ...: HELSTF TBA POL INVESTIGAT
ANALYST .....: F. Martinez

AUTHORIZED BY : G. Moon
CLIENT P.O. : --
SAMPLE DATE ...: 05-04-00
SUBMITTAL DATE : 05-05-00
EXTRACTION DATE: 05-05-00
ANALYSIS DATE .: 05-16-00

TPH Gas by Mod 8015

DATA TABLE

Parameter	Result	Unit	Detection Limit
TPH Gas ..... :	<20.	mg/Kg	20.

ANALYTICAL RESULT(S) REPORTED HEREIN APPLY ONLY TO THE SAMPLE(S) TESTED. FURTHERMORE, THIS REPORT CAN ONLY BE COPIED IN ITS ENTIRETY.

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ANALYTICAL REPORT

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P.O. BOX 399, BLDG 126
WSMR, NM 88002

SAMPLE NO. : 20002019
INVOICE NO.: 22105666
REPORT DATE: 05-24-00
REVIEWED BY:

D A T A T A B L E (Cont.)

Surrogate Information -

	Percent Recovery	Range
1-ChloroOctane ..... :	103.0	37-130

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ANALYTICAL REPORT

CLIENT MEVATEC CORPORATION
P.O. BOX 399, BLDG 126
WSMR, NM 88002

SAMPLE NO.: 20002020
INVOICE NO.: 22105666
REPORT DATE: 05-24-00
REVIEWED BY:
PAGE : 1 OF 2

CLIENT SAMPLE ID : 26030-SB09-(11.5-12.0)
SAMPLE TYPE .....: Soil
SAMPLED BY .....: --
SUBMITTED BY ....: G.M.
SAMPLE SOURCE ...: HELSTF TBA POL INVESTIGAT
ANALYST .....: F. Martinez

AUTHORIZED BY : G. Moon
CLIENT P.O. : --
SAMPLE DATE ...: 05-04-00
SUBMITTAL DATE : 05-05-00
EXTRACTION DATE: 05-05-00
ANALYSIS DATE .: 05-16-00

TPH Gas by Mod 8015

DATA TABLE

Parameter	Result	Unit	Detection Limit
TPH Gas .....:	<20.	mg/Kg	20.

ANALYTICAL RESULT(S) REPORTED HEREIN APPLY ONLY TO THE SAMPLE(S) TESTED. FURTHERMORE, THIS REPORT CAN ONLY BE COPIED IN ITS ENTIRETY.

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WSMR, NM 88002

SAMPLE NO. : 20002020
INVOICE NO.: 22105666
REPORT DATE: 05-24-00
REVIEWED BY:

D A T A T A B L E (Cont.)

Surrogate Information -

	Percent Recovery	Range
1-ChloroOctane ..... :	102.0	37-130

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ANALYTICAL REPORT

CLIENT MEWATER CORPORATION
P.O. BOX 399, BLDG 126
WSMR, NM 88002

SAMPLE NO.: 20002021
INVOICE NO.: 22105666
REPORT DATE: 05-24-00
REVIEWED BY:
PAGE : 1 OF 2

CLIENT SAMPLE ID :	26030-SB09-(16.5 17.0)	AUTHORIZED BY :	G. Moon
SAMPLE TYPE .....:	Soil	CLIENT P.O. :	--
SAMPLED BY .....:	--	SAMPLE DATE ...:	05-04-00
SUBMITTED BY ....:	G.M.	SUBMITTAL DATE :	05-05-00
SAMPLE SOURCE ...:	HELSTF TBA POL INVESTIGAT	EXTRACTION DATE:	05-05-00
ANALYST .....:	F. Martinez	ANALYSIS DATE .:	05-16-00

TPH Gas by Mod 8015

DATA TABLE

Parameter	Result	Unit	Detection Limit
TPH Gas .....:	<20.	mg/Kg	20.

ANALYTICAL RESULT(S) REPORTED HEREIN APPLY ONLY TO THE SAMPLE(S) TESTED. FURTHERMORE, THIS REPORT CAN ONLY BE COPIED IN ITS ENTIRETY

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ANALYTICAL REPORT

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WSMR, NM 88002

SAMPLE NO. : 20002021
INVOICE NO.: 22105666
REPORT DATE: 05-24-00
REVIEWED BY:

D A T A T A B L E (Cont.)

Surrogate Information -

	Percent Recovery	Range
1-ChloroOctane ..... :	101.0	37-130

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ANALYTICAL REPORT

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WSMR, NM 88002

SAMPLE NO.: 20002022
INVOICE NO.: 22105666
REPORT DATE: 05-24-00
REVIEWED BY:
PAGE : 1 OF 2

CLIENT SAMPLE ID : 26030-SB09-(21.5-22.0)
SAMPLE TYPE .....: Soil
SAMPLED BY .....: --
SUBMITTED BY ....: G.M.
SAMPLE SOURCE ...: HELSTF TBA POL INVESTIGAT
ANALYST .....: F. Martinez

AUTHORIZED BY : G. Moon
CLIENT P.O. : --
SAMPLE DATE ...: 05-04-00
SUBMITTAL DATE : 05-05-00
EXTRACTION DATE: 05-05-00
ANALYSIS DATE .: 05-16-00

TPH Gas by Mod 8015

DATA TABLE

Parameter	Result	Unit	Detection Limit
TPH Gas .....:	<20.	mg/Kg	20.

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SAMPLE NO. : 20002022
INVOICE NO.: 22105666
REPORT DATE: 05-24-00
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D A T A T A B L E (Cont.)

Surrogate Information -	Percent Recovery	Range
1-ChloroOctane ..... :	97.8	37-130

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SAMPLE NO.: 20002023
INVOICE NO.: 22105666
REPORT DATE: 05-24-00
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PAGE : 1 OF 2

CLIENT SAMPLE ID :	26030-SB09-(26.5-27.0)	AUTHORIZED BY :	G. Moon
SAMPLE TYPE .....:	Soil	CLIENT P.O. :	--
SAMPLED BY .....:	--	SAMPLE DATE ...:	05-04-00
SUBMITTED BY ....:	G.M.	SUBMITTAL DATE :	05-05-00
SAMPLE SOURCE ...:	HELSTF TBA POL INVESTIGAT	EXTRACTION DATE:	05-05-00
ANALYST .....:	F. Martinez	ANALYSIS DATE .:	05-16-00

TPH Gas by Mod 8015

DATA TABLE

Parameter	Result	Unit	Detection Limit
TPH Gas .....:	<20.	mg/Kg	20.

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Kevin Cox
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ANALYTICAL REPORT

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WSMR, NM 88002

SAMPLE NO. : 20002023
INVOICE NO.: 22105666
REPORT DATE: 05-24-00
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D A T A T A B L E (Cont.)

Surrogate Information -

	Percent Recovery	Range
1-ChloroOctane ..... :	96.2	37-130

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SAMPLE NO.: 20002024
INVOICE NO.: 22105666
REPORT DATE: 05-24-00
REVIEWED BY:
PAGE : 1 OF 2

CLIENT SAMPLE ID : 26030-SB09-(31.5-32.0)
SAMPLE TYPE .....: Soil
SAMPLED BY .....: --
SUBMITTED BY ....: G.M.
SAMPLE SOURCE ...: HELSTF TBA POL INVESTIGAT
ANALYST .....: F. Martinez

AUTHORIZED BY : G. Moon
CLIENT P.O. : --
SAMPLE DATE ...: 05-04-00
SUBMITTAL DATE : 05-05-00
EXTRACTION DATE: 05-05-00
ANALYSIS DATE .: 05-16-00

TPH Gas by Mod 8015

DATA TABLE

Parameter	Result	Unit	Detection Limit
TPH Gas	<20.	mg/Kg	20.

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SAMPLE NO. : 20002024
INVOICE NO.: 22105666
REPORT DATE: 05-24-00
REVIEWED BY:

D A T A T A B L E (Cont.)

Surrogate Information -

	Percent Recovery	Range
1-ChloroOctane ..... :	94.4	37-130

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ANALYTICAL REPORT

CLIENT MEWATER CORPORATION
P.O. BOX 399, BLDG 126
WSMR, NM 88002

SAMPLE NO.: 20002018
INVOICE NO.: 22105666
REPORT DATE: 05-24-00
REVIEWED BY: K
PAGE : 1 OF 2

CLIENT SAMPLE ID : 26030-SB09-(1.5-2.0)
SAMPLE TYPE .....: Soil
SAMPLED BY .....: --
SUBMITTED BY ....: G.M.
SAMPLE SOURCE ...: HELSTF TBA POL INVESTIGAT
ANALYST .....: F. Martinez

AUTHORIZED BY : G. Moon
CLIENT P.O. : --
SAMPLE DATE ...: 05-04-00
SUBMITTAL DATE : 05-05-00
EXTRACTION DATE: 05-05-00
ANALYSIS DATE .: 05-16-00

REMARKS -

Surrogate BFB was out of acceptance criteria in the Method Blank and Spikes.

Petroleum Contaminants by 8021B

DATA TABLE

Parameter	Result	Unit	Detection Limit
Benzene .....:	<50.	ug/Kg	50.
Toluene .....:	<50.	ug/Kg	50.
Ethylbenzene .....:	<50.	ug/Kg	50.
Total Xylenes .....:	<50.	ug/Kg	50.
Methyl Tert-Butyl Ether .....:	<100.	ug/Kg	100.

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Kenen Cody
MANAGING DIRECTOR

ANALYTICAL REPORT

CLIENT MEVATEC CORPORATION
P.O. BOX 399, BLDG 126
WSMR, NM 88002

SAMPLE NO. : 20002018
INVOICE NO.: 22105666
REPORT DATE: 05-24-00
REVIEWED BY:

D A T A T A B L E (Cont.)

Surrogate Information -

	Percent Recovery	Range
aaa-Trifluorotoluene .....:	101.0	70-114
4-Bromofluorobenzene .....:	79.3	76-125

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ANALYTICAL REPORT

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WSMR, NM 88002

SAMPLE NO.: 20002019
INVOICE NO.: 22105666
REPORT DATE: 05-24-00
REVIEWED BY:
PAGE : 1 OF 2

CLIENT SAMPLE ID : 26030-SB09-(6.5-7.0)
SAMPLE TYPE .....: Soil
SAMPLED BY .....: --
SUBMITTED BY ....: G.M.
SAMPLE SOURCE ...: HELSTF TBA POL INVESTIGAT
ANALYST .....: F. Martinez

AUTHORIZED BY : G. Moon
CLIENT P.O. : --
SAMPLE DATE ...: 05-04-00
SUBMITTAL DATE : 05-05-00
EXTRACTION DATE: 05-05-00
ANALYSIS DATE .: 05-16-00

REMARKS -

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Petroleum Contaminants by 8021B

DATA TABLE

Parameter	Result	Unit	Detection Limit
Benzene	<50.	ug/Kg	50.
Toluene	<50.	ug/Kg	50.
Ethylbenzene	<50.	ug/Kg	50.
Total Xylenes	<50.	ug/Kg	50.
Methyl Tert-Butyl Ether	<100.	ug/Kg	100.

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ANALYTICAL REPORT

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P.O. BOX 399, BLDG 126
WSMR, NM 88002

SAMPLE NO. : 20002019
INVOICE NO.: 22105666
REPORT DATE: 05-24-00
REVIEWED BY:

D A T A T A B L E (Cont.)

Surrogate Information -

	Percent Recovery	Range
aaa-Trifluorotoluene .....:	101.0	70-114
4-Bromofluorobenzene .....:	78.4	76-125

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ANALYTICAL REPORT

CLIENT MEWBEC CORPORATION
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WSMR, NM 88002

SAMPLE NO.: 20002020
INVOICE NO.: 22105666
REPORT DATE: 05-24-00
REVIEWED BY:
PAGE : 1 OF 2

CLIENT SAMPLE ID : 26030-SB09-(11.5-12.0)
SAMPLE TYPE .....: Soil
SAMPLED BY .....: --
SUBMITTED BY ....: G.M.
SAMPLE SOURCE ...: HELSTF TBA POL INVESTIGAT
ANALYST .....: F. Martinez

AUTHORIZED BY : G. Moon
CLIENT P.O. : --
SAMPLE DATE ...: 05-04-00
SUBMITTAL DATE : 05-05-00
EXTRACTION DATE: 05-05-00
ANALYSIS DATE .: 05-16-00

REMARKS -

Surrogate BFB was out of acceptance criteria in the Method Blank and Spikes.

Petroleum Contaminants by 8021B

DATA TABLE

Parameter	Result	Unit	Detection Limit
Benzene	<50.	ug/Kg	50.
Toluene	<50.	ug/Kg	50.
Ethylbenzene	<50.	ug/Kg	50.
Total Xylenes	<50.	ug/Kg	50.
Methyl Tert-Butyl Ether	<100.	ug/Kg	100.

ANALYTICAL RESULT(S) REPORTED HEREIN APPLY ONLY TO THE SAMPLE(S) TESTED. FURTHERMORE, THIS REPORT CAN ONLY BE COPIED IN ITS ENTIRETY

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ANALYTICAL REPORT

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WSMR, NM 88002

SAMPLE NO. : 20002020
INVOICE NO.: 22105666
REPORT DATE: 05-24-00
REVIEWED BY:

D A T A T A B L E (Cont.)

Surrogate Information -

	Percent Recovery	Range
aaa-Trifluorotoluene .....:	101.0	70-114
4-Bromofluorobenzene .....:	87.2	76-125

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ANALYTICAL REPORT

CLIENT MEVATEC CORPORATION
P.O. BOX 399, BLDG 126
WSMR, NM 88002

SAMPLE NO.: 20002021
INVOICE NO.: 22105666
REPORT DATE: 05-24-00
REVIEWED BY:
PAGE : 1 OF 2

CLIENT SAMPLE ID : 26030-SB09-(16.5 17.0)
SAMPLE TYPE .....: Soil
SAMPLED BY .....: --
SUBMITTED BY ....: G.M.
SAMPLE SOURCE ...: HELSTF TBA POL INVESTIGAT
ANALYST .....: F. Martinez

AUTHORIZED BY : G. Moon
CLIENT P.O. : --
SAMPLE DATE ...: 05-04-00
SUBMITTAL DATE : 05-05-00
EXTRACTION DATE: 05-05-00
ANALYSIS DATE .: 05-16-00

REMARKS -

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Petroleum Contaminants by 8021B

DATA TABLE

Parameter	Result	Unit	Detection Limit
Benzene ..... :	<50.	ug/Kg	50.
Toluene ..... :	<50.	ug/Kg	50.
Ethylbenzene ..... :	<50.	ug/Kg	50.
Total Xylenes ..... :	<50.	ug/Kg	50.
Methyl Tert-Butyl Ether ..... :	<100.	ug/Kg	100.

ANALYTICAL RESULT(S) REPORTED HEREIN APPLY ONLY TO THE SAMPLE(S) TESTED. FURTHERMORE, THIS REPORT CAN ONLY BE COPIED IN ITS ENTIRETY

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MANAGING DIRECTOR

ANALYTICAL REPORT

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P.O. BOX 399, BLDG 126
WSMR, NM 88002

SAMPLE NO. : 20002021
INVOICE NO.: 22105666
REPORT DATE: 05-24-00
REVIEWED BY:

D A T A T A B L E (Cont.)

Surrogate Information -

	Percent Recovery	Range
aaa-Trifluorotoluene .....:	98.8	70-114
4-Bromofluorobenzene .....:	84.2	76-125

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E-Mail: lab@traceanalysis.com

ANALYTICAL REPORT

CLIENT MEVATEC CORPORATION
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WSMR, NM 88002

SAMPLE NO.: 20002022
INVOICE NO.: 22105666
REPORT DATE: 05-24-00
REVIEWED BY:
PAGE : 1 OF 2

CLIENT SAMPLE ID : 26030-SB09-(21.5-22.0)
SAMPLE TYPE .....: Soil
SAMPLED BY .....: --
SUBMITTED BY ....: G.M.
SAMPLE SOURCE ...: HELSTF TBA POL INVESTIGAT
ANALYST .....: F. Martinez

AUTHORIZED BY : G. Moon
CLIENT P.O. : --
SAMPLE DATE ...: 05-04-00
SUBMITTAL DATE : 05-05-00
EXTRACTION DATE: 05-05-00
ANALYSIS DATE .: 05-16-00

REMARKS -

- Surrogate BFB was out of acceptance criteria in the Method Blank and Spikes.

Petroleum Contaminants by 8021B

DATA TABLE

Parameter	Result	Unit	Detection Limit
Benzene	<50.	ug/Kg	50.
Toluene	<50.	ug/Kg	50.
Ethylbenzene	<50.	ug/Kg	50.
Total Xylenes	<50.	ug/Kg	50.
Methyl Tert-Butyl Ether	<100.	ug/Kg	100.

ANALYTICAL RESULT(S) REPORTED HEREIN APPLY ONLY TO THE SAMPLE(S) TESTED. FURTHERMORE, THIS REPORT CAN ONLY BE COPIED IN ITS ENTIRETY

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SAMPLE NO. : 20002022
INVOICE NO.: 22105666
REPORT DATE: 05-24-00
REVIEWED BY:

D A T A T A B L E (Cont.)

Surrogate Information -

	Percent Recovery	Range
aaa-Trifluorotoluene .....:	100.0	70-114
4-Bromofluorobenzene .....:	87.6	76-125

(1) Copy to Client

TRACEANALYSIS, INC.
6701 Aberdeen Avenue, Suite 9 Lubbock, Texas 79424 800•378•1296 806•794•1296 FAX 806•794•1298
7172 Ripley Avenue, Suite A El Paso, Texas 79922 888•588•3443 915•585•3443 FAX 915•585•4944
E-Mail: lab@traceanalysis.com

ANALYTICAL REPORT

CLIENT MEWATER CORPORATION
P.O. BOX 399, BLDG 126
WSMR, NM 88002

SAMPLE NO.: 20002023
INVOICE NO.: 22105666
REPORT DATE: 05-24-00
REVIEWED BY:
PAGE : 1 OF 2

CLIENT SAMPLE ID : 26030-SB09-(26.5-27.0)
SAMPLE TYPE .....: Soil
SAMPLED BY .....: --
SUBMITTED BY ....: G.M.
SAMPLE SOURCE ...: HELSTF TBA POL INVESTIGAT
ANALYST .....: F. Martinez

AUTHORIZED BY : G. Moon
CLIENT P.O. : --
SAMPLE DATE ...: 05-04-00
SUBMITTAL DATE : 05-05-00
EXTRACTION DATE: 05-05-00
ANALYSIS DATE .: 05-16-00

REMARKS -

Surrogate BFB was out of acceptance criteria in the Method Blank and Spikes.

Petroleum Contaminants by 8021B

DATA TABLE

Parameter	Result	Unit	Detection Limit
Benzene	<50.	ug/Kg	50.
Toluene	<50.	ug/Kg	50.
Ethylbenzene	<50.	ug/Kg	50.
Total Xylenes	<50.	ug/Kg	50.
Methyl Tert-Butyl Ether	<100.	ug/Kg	100.

(1) Copy to Client

ANALYTICAL RESULT(S) REPORTED HEREIN APPLY ONLY TO THE SAMPLE(S) TESTED. FURTHERMORE THIS REPORT CAN ONLY BE COPIED IN ITS ENTIRETY

MANAGING DIRECTOR

ANALYTICAL REPORT

CLIENT MEVATEC CORPORATION
P.O. BOX 399, BLDG 126
WSMR, NM 88002

SAMPLE NO. : 20002023
INVOICE NO.: 22105666
REPORT DATE: 05-24-00
REVIEWED BY:

D A T A T A B L E (Cont.)

Surrogate Information -

	Percent Recovery	Range
aaa-Trifluorotoluene .....:	100.0	70-114
4-Bromofluorobenzene .....:	86.4	76-125

(1) Copy to Client

TRACEANALYSIS, INC.
6701 Aberdeen Avenue, Suite 9 Lubbock, Texas 79424 800•378•1296 806•794•1296 FAX 806•794•1298
7801 Esperanza Drive, Suite 1 El Paso, Texas 79922 888•588•3443 915•585•3443 FAX 915•585•4944
E-Mail: lab@traceanalysis.com

ANALYTICAL REPORT

CLIENT MEVATEC CORPORATION
P.O. BOX 399, BLDG 126
WSMR, NM 88002

SAMPLE NO.: 20002024
INVOICE NO.: 22105666
REPORT DATE: 05-24-00
REVIEWED BY:
PAGE : 1 OF 2

CLIENT SAMPLE ID : 26030-SB09-(31.5-32.0)
SAMPLE TYPE .....: Soil
SAMPLED BY .....: --
SUBMITTED BY ....: G.M.
SAMPLE SOURCE ...: HELSTF TBA POL INVESTIGAT
ANALYST .....: F. Martinez

AUTHORIZED BY : G. Moon
CLIENT P.O. : --
SAMPLE DATE ...: 05-04-00
SUBMITTAL DATE : 05-05-00
EXTRACTION DATE: 05-05-00
ANALYSIS DATE .: 05-16-00

REMARKS -

Surrogate BFB was out of acceptance criteria in the Method Blank and Spikes.

Petroleum Contaminants by 8021B

DATA TABLE

Parameter	Result	Unit	Detection Limit
Benzene .....:	<50.	ug/Kg	50.
Toluene .....:	<50.	ug/Kg	50.
Ethylbenzene .....:	<50.	ug/Kg	50.
Total Xylenes .....:	<50.	ug/Kg	50.
Methyl Tert-Butyl Ether .....:	<100.	ug/Kg	100.

ANALYTICAL RESULT(S) REPORTED HEREIN APPLY ONLY TO THE SAMPLE(S) TESTED. FURTHERMORE, THIS REPORT CAN ONLY BE COPIED IN ITS ENTIRETY

(1) Copy to Client

MANAGING DIRECTOR

ANALYTICAL REPORT

CLIENT MEVATEC CORPORATION
P.O. BOX 399, BLDG 126
WSMR, NM 88002

SAMPLE NO. : 20002024
INVOICE NO.: 22105666
REPORT DATE: 05-24-00
REVIEWED BY:

D A T A T A B L E (Cont.)

Surrogate Information -

	Percent Recovery	Range
aaa-Trifluorotoluene .....:	101.0	70-114
4-Bromofluorobenzene .....:	89.3	76-125

(1) Copy to Client

PDP
Analytical Services

1680 Lake Front Circle, Suite B
The Woodlands, Texas 77380
Phone (713) 363-2233
Fax (713) 298-5784

June 7, 2000

Greg Watterson
Mevatec Corporation
Building 126, 3rd Floor
White Sands Missile Range
NM 88022-0399

Episode: 6060
Project ID: Helstf TSA Pool
Project #: 700B9

Dear Mr. Watterson:

Enclosed are the analytical results samples received in our laboratory on May 5, 2000. The samples were analyzed for the parameters indicated on the chain of custody.

Please be advised that unused portions of your samples, sample extracts and digestates will be stored for 30 days from the date of this report. Unless prior arrangements were made, at the end of this period your samples will either be disposed of, or returned to you if your samples were determined to be hazardous.

We appreciate your business. Should you have any questions or need assistance with this report, please feel free to call me, at (281) 363-2233.

Sincerely,

Sean Sundquist
Project Manager

Enclosures

Cc: Episode File - 6060

CASE NARRATIVE

PDP Analytical Services
1680 Lake Front Circle Drive, Suite B The Woodlands, TX 77380
Phone: (281) 363-2233 Fax: (281) 298-5784

Episode No: 6060	Client: Mevatec	Project: Helstf TSA Pool

CASE NARRATIVE

Sample Receipt and Login

PDP Analytical Services received one (1) shipment, delivered by commercial carrier on 05/05/00. The six (6) soil samples were scheduled for a fourteen (14) day turn-around-time

No custody seals were present on the cooler. No other discrepancies were found during login.

Sample Analysis Narrative

BTEX & MTBE

The samples were prepared on 05/07/00 and analyzed on 05/08/00. Target compounds were detected in the samples.

All quality control samples met all requirements. No problems were encountered in the analysis of these samples.

TPH-Gasoline Range Organics

The samples were prepared on 05/07/00 and analyzed by GC-MS on 05/13/00. No target compounds were detected in the samples.

The matrix spike had low recoveries due to the matrix of the sample. Since all other quality control data met their requirements, no action was necessary. No other problems were encountered in the analysis of these samples.

PDP ANALYTICAL SERVICES
1680 Lake Front Circle, Suite B The Woodlands, Texas 77380

DATA FLAGS AND ABBREVIATIONS

B	This flag is used when the analyte is found in the associated blank as well as in the sample.
D	Indicates that the compound could not be detected because it was diluted out.
DL	This flag identifies an analysis at a secondary dilution factor.
E	This flag identifies compounds whose concentrations exceed the calibration range of the instrument for that specific analysis. A more accurate quantitation is obtained from a diluted sample analysis.
I	This flag is used to indicate the presence of interference which resulted in not determining the value.
J	This flag is used when the data indicates the presence of a compound below the quanitation limit as determined by the identification criteria.
NA	Not applicable.
NC	Not calculated.
ND	Indicates a compound was analyzed for but not detected at the quantitation level.
P	This flag is used for a pesticide/aroclor target analyte when there is greater than 25% difference for detected concentrations between the two GC columns.
RE	This flag is used when the sample is re-extracted and re-analyzed.
RA	This flag is used when the sample is re-analyzed.
U	This flag indicates that the compound was analyzed for but not detected.
*	Indicates that the compound is out of the Quality Control limits.

Z:\NETDATA\QA\FORMS\QC\DFAA0796.DOC

CHAIN OF CUSTODY

Call (505)678-1541/0263 to get PO# (if needed) (we don't have it with us in the field)

PDP

MEVATEC CORPORATION

P.O. Box 399
Bldg. 126
WSMR, NM 88002
(505) 678-0263

CHAIN OF CUSTODY RECORD

PAGE 1 OF 1

PROJECT NO.: 7003B

PROJECT NAME: HELSTF TSA PDL

SAMPLER'S SIGNATURE: [signature]

DATE COLLECTED	TIME COLLECTED	SAMPLE ID	MATRIX	LAB NO.	NO. OF CONTAINERS	ANALYSIS REQUESTED: 8015 mod GRO	ANALYSIS REQUESTED: BTEX EPA 8021B	REMARKS
								6060
5/4/00	0930	26030-SB02-(16.5-17.0)QA	Soil		1	X	X	.001
5/4/00	0956	26030-SB02-(31.5-32.0)QA	Soil		1	X	X	.002
5/4/00	1126	26030-SB08-(16.5-17.0)QA	Soil		1	X	X	.003
5/4/00	1145	26030-SB08-(31.5-32.0)QA	Soil		1	X	X	.004
5/4/00	1512	26030-SB05-(16.5-17.0)QA	Soil		1	X	X	.005
5/4/00	1532	26030-SB05-(31.5-32.0)QA	Soil		1	X	X	.006

PROJECT INFORMATION			1. RELINQUISHED BY: (SIGNATURE)	2. RELINQUISHED BY: (SIGNATURE)	3. RECEIVED BY LABORATORY: (SIGNATURE)
PROJECT MANAGER: George Mason P.E.	SAMPLES RECEIVED		(PRINTED NAME) Greg Watterson	(PRINTED NAME)	(PRINTED NAME) CARLOS PIRIR
SHIPPING ID. NO.	TOTAL NO. OF CONTAINERS		RECEIVED BY:	RECEIVED BY:	(COMPANY) ~~PDP Analytical~~ PDP Analytical
VIA: Fed Ex	CHAIN OF CUSTODY SEALS		(TIME / DATE)	(TIME / DATE)	(TIME / DATE) 5-5-00 9:05
	GOOD CONDITION/CHILLED		SPECIAL INSTRUCTIONS / COMMENTS: Must be extracted within 48hrs to be accepted by N.M. Env. Dept.		
	CONFORMS TO RECORD				

PLEASE USE BALL POINT PEN

DISTRIBUTION: WHITE - PROJECT FILES; YELLOW - LAB; PINK - FIELD COPY

PDP ANALYTICAL SERVICES
1680 Lake Front Circle, Suite B, The Woodlands, TX 77380

SAMPLE LOG-IN CHECKLIST/DISCREPANCY REPORT

EPISODE #: 6060 DATE/ TIME REC'D: 5-5-00 9:05 TEMP & ID: 1) 4 °C # A

LIENT NAME: Mevatec Corporation 2) ____ # ____

PROJECT NAME: HELSTF TSA POL 3) ____ # ____

PROJECT NUMBER: 700B9 4) ____ # ____

— AQUEOUS, # 6 SOIL SAMPLES 5) ____ # ____

COURIER/AIRBILL # FedEx 819302177667 6) ____ # ____

SAMPLE CONTAINER SEALS: present absent (intact) broken

COOLER CUSTODY SEALS: present absent (intact) broken NAME & DATE: NA

HOW MANY AND WHERE on the front

	YES	NO
Were samples screened for radioactivity?	✓	
Chain-of-custody present?	✓	
Custody documents: Sealed in a plastic bag?	✓	
Signed and dated by field personnel	✓	
Filled out properly in indelable ink?	✓	
Signed and dated by log-in personnel?	✓	
ntainer Condition: Each containers sealed in a separate plastic bag?	✓	
Labels complete (ID, date, time, signature, preservative, etc.)?	✓	
Labels agree with chain-of-custody?	✓	
Received without leakage or breakage? If no, list :	✓	
Correct quantity indicated on chain-of-custody?	✓	
Sample Integrity: Correct containers used for the test indicated? If no, list:	✓	
Correct preservatives added to the samples? If no, list:	✓	
Sufficient sample amount sent for the tests indicated? If no, list	✓	
VOA vials filled completely? If no, list:	N/A	
Aqueous volatiles samples preserved? If no, list:	NA	

Descrepancy Report:

Discepancies to be discussed with the client?

Project Manager's recommendations?

Who was notified? By whom? Date:

Client's comments:

Corrective actions carried out?

COMMENTS:

hose short holding time and fast turn-around parameters, has a Rush Notification sheet been issued to the lab?		

LOG-IN BY: Carlos Pirir DATE: 5-5-00

z:\netdata\qa\forms\admin\scdr0398

0000006

PDP Analytical Services
1680 Lake Front Circle, Suite B, The Woodlands TX 77380
Sample Log-In Report

Logged By: RB

Report Date: 5/5/2000 11:51:58

Client Name: MEVATEC
Client Project Name: HELSTF TSA POOL
ClientProject #:
P.O. No.: 700B9
Courier/No.:

Lab Project ID: EVATEC
Date Logged: 05/05/00
Date Received: 05/05/00
Time Received: 9:05

Lab Sample ID	Client Sample ID	No. Cont.	Sample Matrix	Date Sampled	Time Sampled	Chain Of Custody No.	Date Due	Remarks
6060.001	26030-SB02-(16.5-17.0)	1	SOIL	05/04/00	09:30	6060		
	Tests Required							
	- BTEX8021B/MTBE						05/19/00	
	- TPH8015A-PURGEABLES						05/19/00	
6060.002	26030-SB02-(31.5-32.0)	1	SOIL	05/04/00	09:56	6060		
	Tests Required							
	- BTEX8021B/MTBE						05/19/00	
	- TPH8015A-PURGEABLES						05/19/00	
6060.003	26030-SB08-(16.5-17.0)	1	SOIL	05/04/00	11:26	6060		
	Tests Required							
	- BTEX8021B/MTBE						05/19/00	
	- TPH8015A-PURGEABLES						05/19/00	
6060.004	26030-SB08-(31.5-32.0)	1	SOIL	05/04/00	11:45	6060		
	Tests Required							
	- BTEX8021B/MTBE						05/19/00	
	- TPH8015A-PURGEABLES						05/19/00	
6060.005	26030-SB09-(16.5-17.0)	1	SOIL	05/04/00	15:12	6060		
	Tests Required							
	- BTEX8021B/MTBE						05/19/00	
	- TPH8015A-PURGEABLES						05/19/00	
6060.006	26030-SB09-(31.5-32.0)	1	SOIL	05/04/00	15:32	6060		
	Tests Required							
	- BTEX8021B/MTBE						05/19/00	
	- TPH8015A-PURGEABLES						05/19/00	

Instructions To Lab:

EXTRACT SAMPLES WITHIN 48 HRS OF SAMPLING!
EDD REQUIRED

SW 5/5/00
Lab Approval

Client Approval

0000007

Sample Data

BTEX/MTBE

PDP Analytical Services

1680 Lake Front Circle, Suite B, The Woodlands, TX 77380

LABORATORY REPORT

BTEX & MTBE BY GC/PID

CLIENT NAME :	MEVATEC	CLIENT SAMPLE ID :	26030-SB02-(16.5-17.0)2A
PROJECT NAME :	HELSTF TSA POOL	LAB SAMPLE ID :	6060.001
PROJECT NUMBER :		METHOD REFERENCE :	SW846-8021B
DATE SAMPLED :	5/4/00	DATE RECEIVED :	5/5/00
SAMPLE MATRIX :	SOIL	PRINTED ON :	6/1/2000 8:58

% MOISTURE	: 4.43	ANALYST	: DR
DATE ANALYZED	: 05/08/00	INSTRUMENT FILE	: B00995.D
INSTRUMENT ID	: B-HP5890B	SAMPLE WEIGHT	: 5 g
TIME ANALYZED	: 15:55		

PARAMETER	QUANTITATION LIMIT		RESULTS		QUALIFIER
Benzene	5.2	UG/KG	ND	UG/KG	
Ethylbenzene	5.2	UG/KG	ND	UG/KG	
Methyl tert-butyl ether	5.2	UG/KG	ND	UG/KG	
Toluene	5.2	UG/KG	ND	UG/KG	
Xylene (total)	5.2	UG/KG	2.9	UG/KG	J

QUALITY CONTROL DATA

SURROGATE COMPOUND	SPIKE ADDED	QC RECOVERY LIMITS	%RECOVERY
a,a,a-Trifluorotoluene	52.3 UG/KG	70 - 130	82

BATCH QUALITY CONTROL SAMPLE IDs

QC BATCH ID : B29	PREP BLANK ID : BBLK29	LCS ID : BLCS29
MS ID : 6060.001MS	MSD ID : 6060.001MSD	

PDP Analytical Services

1680 Lake Front Circle, Suite B, The Woodlands, TX 77380

LABORATORY REPORT

BTEX & MTBE BY GC/PID

CLIENT NAME :	MEVATEC	CLIENT SAMPLE ID :	26030-SB02-(31.5-32.0)QA
PROJECT NAME :	HELSTF TSA POOL	LAB SAMPLE ID :	6060.002
PROJECT NUMBER :		METHOD REFERENCE :	SW846-8021B
DATE SAMPLED :	5/4/00	DATE RECEIVED :	5/5/00
SAMPLE MATRIX :	SOIL	PRINTED ON :	6/1/2000 8:58

% MOISTURE	: 21.22	ANALYST	: DR
DATE ANALYZED	: 05/08/00	INSTRUMENT FILE	: B00996.D
INSTRUMENT ID	: B-HP5890B	SAMPLE WEIGHT	: 5 g
TIME ANALYZED	: 16:22		

PARAMETER	QUANTITATION LIMIT		RESULTS		QUALIFIER
Benzene	6.3	UG/KG	ND	UG/KG	
Ethylbenzene	6.3	UG/KG	ND	UG/KG	
Methyl tert-butyl ether	6.3	UG/KG	ND	UG/KG	
Toluene	6.3	UG/KG	ND	UG/KG	
Xylene (total)	6.3	UG/KG	3.2	UG/KG	J

QUALITY CONTROL DATA

SURROGATE COMPOUND	SPIKE ADDED	QC RECOVERY LIMITS	%RECOVERY
a,a,a-Trifluorotoluene	63.5 UG/KG	70 - 130	74

BATCH QUALITY CONTROL SAMPLE IDs

QC BATCH ID : B29	PREP BLANK ID : BBLK29	LCS ID : BLCS29
MS ID : 6060.001MS	MSD ID : 6060.001MSD	

PDP Analytical Services

1680 Lake Front Circle, Suite B, The Woodlands, TX 77380

LABORATORY REPORT

BTEX & MTBE BY GC/PID

CLIENT NAME :	MEVATEC	CLIENT SAMPLE ID :	26030-SB08-(16.5-17.0)QA
PROJECT NAME :	HELSTF TSA POOL	LAB SAMPLE ID :	6060.003
PROJECT NUMBER :		METHOD REFERENCE :	SW846-8021B
DATE SAMPLED :	5/4/00	DATE RECEIVED :	5/5/00
SAMPLE MATRIX :	SOIL	PRINTED ON :	6/1/2000 8:58

% MOISTURE	: 3.026	ANALYST	: DR
DATE ANALYZED	: 05/08/00	INSTRUMENT FILE	: B00997.D
INSTRUMENT ID	: B-HP5890B	SAMPLE WEIGHT	: 5 g
TIME ANALYZED	: 16:49		

PARAMETER	QUANTITATION LIMIT		RESULTS		QUALIFIER
Benzene	5.1	UG/KG	ND	UG/KG	
Ethylbenzene	5.1	UG/KG	ND	UG/KG	
Methyl tert-butyl ether	5.1	UG/KG	ND	UG/KG	
Toluene	5.1	UG/KG	ND	UG/KG	
Xylene (total)	5.1	UG/KG	2.9	UG/KG	J

QUALITY CONTROL DATA

SURROGATE COMPOUND	SPIKE ADDED	QC RECOVERY LIMITS	%RECOVERY
a,a,a-Trifluorotoluene	51.6 UG/KG	70 - 130	78

BATCH QUALITY CONTROL SAMPLE IDs

QC BATCH ID : B29	PREP BLANK ID : BBLK29	LCS ID : BLCS29
MS ID : 6060.001MS	MSD ID : 6060.001MSD	

PDP Analytical Services

1680 Lake Front Circle, Suite B, The Woodlands, TX 77380

LABORATORY REPORT

BTEX & MTBE BY GC/PID

CLIENT NAME :	MEVATEC	CLIENT SAMPLE ID :	26030-SB08-(31.5-32.0)QA
PROJECT NAME :	HELSTF TSA POOL	LAB SAMPLE ID :	6060.004
PROJECT NUMBER :		METHOD REFERENCE :	SW846-8021B
DATE SAMPLED :	5/4/00	DATE RECEIVED :	5/5/00
SAMPLE MATRIX :	SOIL	PRINTED ON :	6/1/2000 8:58

% MOISTURE	: 12.92	ANALYST	: DR
DATE ANALYZED	: 05/08/00	INSTRUMENT FILE	: B00998.D
INSTRUMENT ID	: B-HP5890B	SAMPLE WEIGHT	: 5 g
TIME ANALYZED	: 17:16		

PARAMETER	QUANTITATION LIMIT		RESULTS		QUALIFIER
Benzene	5.7	UG/KG	ND	UG/KG	
Ethylbenzene	5.7	UG/KG	ND	UG/KG	
Methyl tert-butyl ether	5.7	UG/KG	ND	UG/KG	
Toluene	5.7	UG/KG	ND	UG/KG	
Xylene (total)	5.7	UG/KG	3.6	UG/KG	J

QUALITY CONTROL DATA

SURROGATE COMPOUND	SPIKE ADDED	QC RECOVERY LIMITS	%RECOVERY
a,a,a-Trifluorotoluene	57.4 UG/KG	70 - 130	71

BATCH QUALITY CONTROL SAMPLE IDs

QC BATCH ID : B29	PREP BLANK ID : BBLK29	LCS ID : BLCS29
MS ID : 6060.001MS	MSD ID : 6060.001MSD	

PDP Analytical Services

1680 Lake Front Circle, Suite B, The Woodlands, TX 77380

LABORATORY REPORT

BTEX & MTBE BY GC/PID

CLIENT NAME :	MEVATEC	CLIENT SAMPLE ID :	26030-SB09-(16.5-17.0)QA
PROJECT NAME :	HELSTF TSA POOL	LAB SAMPLE ID :	6060.005
PROJECT NUMBER :		METHOD REFERENCE :	SW846-8021B
DATE SAMPLED :	5/4/00	DATE RECEIVED :	5/5/00
SAMPLE MATRIX :	SOIL	PRINTED ON :	6/1/2000 8:58

% MOISTURE	: 10.69	ANALYST	: DR
DATE ANALYZED	: 05/09/00	INSTRUMENT FILE	: B01009.D
INSTRUMENT ID	: B-HP5890B	SAMPLE WEIGHT	: 5 g
TIME ANALYZED	: 11:01		

PARAMETER	QUANTITATION LIMIT		RESULTS		QUALIFIER
Benzene	5.6	UG/KG	ND	UG/KG	
Ethylbenzene	5.6	UG/KG	ND	UG/KG	
Methyl tert-butyl ether	5.6	UG/KG	ND	UG/KG	
Toluene	5.6	UG/KG	ND	UG/KG	
Xylene (total)	5.6	UG/KG	4.4	UG/KG	J

QUALITY CONTROL DATA

SURROGATE COMPOUND	SPIKE ADDED	QC RECOVERY LIMITS	%RECOVERY
a,a,a-Trifluorotoluene	56 UG/KG	70 - 130	92

BATCH QUALITY CONTROL SAMPLE IDs

QC BATCH ID : B30	PREP BLANK ID : BBLK30	LCS ID : BLCS30
MS ID : 6060.001MS	MSD ID : 6060.001MSD	

PDP Analytical Services

1680 Lake Front Circle, Suite B, The Woodlands, TX 77380

LABORATORY REPORT

BTEX & MTBE BY GC/PID

CLIENT NAME :	MEVATEC	CLIENT SAMPLE ID :	26030-SB09-(31.5-32.0)QA
PROJECT NAME :	HELSTF TSA POOL	LAB SAMPLE ID :	6060.006
PROJECT NUMBER :		METHOD REFERENCE :	SW846-8021B
DATE SAMPLED :	5/4/00	DATE RECEIVED :	5/5/00
SAMPLE MATRIX :	SOIL	PRINTED ON :	6/1/2000 8:58

% MOISTURE	: 21.76	ANALYST	: DR
DATE ANALYZED	: 05/09/00	INSTRUMENT FILE	: B01010.D
INSTRUMENT ID	: B-HP5890B	SAMPLE WEIGHT	: 5 g
TIME ANALYZED	: 11:28		

PARAMETER	QUANTITATION LIMIT		RESULTS		QUALIFIER
Benzene	6.4	UG/KG	ND	UG/KG	
Ethylbenzene	6.4	UG/KG	ND	UG/KG	
Methyl tert-butyl ether	6.4	UG/KG	ND	UG/KG	
Toluene	6.4	UG/KG	ND	UG/KG	
Xylene (total)	6.4	UG/KG	ND	UG/KG	

QUALITY CONTROL DATA

SURROGATE COMPOUND	SPIKE ADDED	QC RECOVERY LIMITS	%RECOVERY
a,a,a-Trifluorotoluene	63.9 UG/KG	70 - 130	91

BATCH QUALITY CONTROL SAMPLE IDs

QC BATCH ID : B30	PREP BLANK ID : BBLK30	LCS ID : BLCS30
MS ID : 6060.001MS	MSD ID : 6060.001MSD	

TPH8015A-Purgeables

PDP Analytical Services

1680 Lake Front Circle, Suite B, The Woodlands, TX 77380

LABORATORY REPORT

TPH PURGEABLES BY GC/FID

CLIENT NAME :	MEVATEC	CLIENT SAMPLE ID :	26030-SB02-(16.5-17.0)2A
PROJECT NAME :	HELSTF TSA POOL	LAB SAMPLE ID :	6060.001
PROJECT NUMBER :		METHOD REFERENCE :	SW846-8015A
DATE SAMPLED :	5/4/00	DATE RECEIVED :	5/5/00
SAMPLE MATRIX :	SOIL	PRINTED ON :	5/31/2000 16:27

% MOISTURE	: 4.43	ANALYST	: DR
DATE ANALYZED	: 05/13/00	INSTRUMENT FILE	: B01079.D
INSTRUMENT ID	: B-HP5890	SAMPLE WEIGHT	: 5 g
TIME ANALYZED	: 00:08		

PARAMETER	QUANTITATION LIMIT	RESULTS	QUALIFIER
Total Petroleum Hydrocarbons - Gasoline Range	260 UG/KG	ND UG/KG	

QUALITY CONTROL DATA

SURROGATE COMPOUND	SPIKE ADDED	QC RECOVERY LIMITS	%RECOVERY
a,a,a-Trifluorotoluene	52.3 UG/KG	70 - 130	70

BATCH QUALITY CONTROL SAMPLE IDs

QC BATCH ID : G24	PREP BLANK ID : GBLK24	LCS ID : GLCS22
MS ID : 6060.006MS	MSD ID : 6060.006MSD	

PDP Analytical Services

1680 Lake Front Circle, Suite B, The Woodlands, TX 77380

LABORATORY REPORT

TPH PURGEABLES BY GC/FID

CLIENT NAME :	MEVATEC	CLIENT SAMPLE ID :	26030-SB02-(31.5-32.0)QA
PROJECT NAME :	HELSTF TSA POOL	LAB SAMPLE ID :	6060.002
PROJECT NUMBER :		METHOD REFERENCE :	SW846-8015A
DATE SAMPLED :	5/4/00	DATE RECEIVED :	5/5/00
SAMPLE MATRIX :	SOIL	PRINTED ON :	5/31/2000 16:27

% MOISTURE	: 21.22	ANALYST	: DR
DATE ANALYZED	: 05/15/00	INSTRUMENT FILE	: B01096.D
INSTRUMENT ID	: B-HP5890	SAMPLE WEIGHT	: 5 g
TIME ANALYZED	: 14:01		

PARAMETER	QUANTITATION LIMIT	RESULTS	QUALIFIER
Total Petroleum Hydrocarbons - Gasoline Range	320 UG/KG	ND UG/KG	

QUALITY CONTROL DATA

SURROGATE COMPOUND	SPIKE ADDED	QC RECOVERY LIMITS	%RECOVERY
a,a,a-Trifluorotoluene	63.5 UG/KG	70 - 130	65

BATCH QUALITY CONTROL SAMPLE IDs

QC BATCH ID : G25	PREP BLANK ID : GBLK25	LCS ID : GLCS23
MS ID : 6060.006MS	MSD ID : 6060.006MSD	

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LABORATORY REPORT

TPH PURGEABLES BY GC/FID

CLIENT NAME :	MEVATEC	CLIENT SAMPLE ID :	26030-SB08-(16.5-17.0)QA
PROJECT NAME :	HELSTF TSA POOL	LAB SAMPLE ID :	6060.003
PROJECT NUMBER :		METHOD REFERENCE :	SW846-8015A
DATE SAMPLED :	5/4/00	DATE RECEIVED :	5/5/00
SAMPLE MATRIX :	SOIL	PRINTED ON :	5/31/2000 16:27

% MOISTURE	: 3.026	ANALYST	: DR
DATE ANALYZED	: 05/15/00	INSTRUMENT FILE	: B01097.D
INSTRUMENT ID	: B-HP5890	SAMPLE WEIGHT	: 5 g
TIME ANALYZED	: 14:28		

PARAMETER	QUANTITATION LIMIT	RESULTS	QUALIFIER
Total Petroleum Hydrocarbons - Gasoline Range	260 UG/KG	ND UG/KG	

QUALITY CONTROL DATA

SURROGATE COMPOUND	SPIKE ADDED	QC RECOVERY LIMITS	%RECOVERY
a,a,a-Trifluorotoluene	51.6 UG/KG	70 - 130	51

BATCH QUALITY CONTROL SAMPLE IDs

QC BATCH ID : G25	PREP BLANK ID : GBLK25	LCS ID : GLCS23
MS ID : 6060.006MS	MSD ID : 6060.006MSD	

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LABORATORY REPORT

TPH PURGEABLES BY GC/FID

CLIENT NAME :	MEVATEC	CLIENT SAMPLE ID :	26030-SB08-(31.5-32.0)QA
PROJECT NAME :	HELSTF TSA POOL	LAB SAMPLE ID :	6060.004
PROJECT NUMBER :		METHOD REFERENCE :	SW846-8015A
DATE SAMPLED :	5/4/00	DATE RECEIVED :	5/5/00
SAMPLE MATRIX :	SOIL	PRINTED ON :	5/31/2000 16:27

% MOISTURE	: 12.92	ANALYST	: DR
DATE ANALYZED	: 05/15/00	INSTRUMENT FILE	: B01098.D
INSTRUMENT ID	: B-HP5890	SAMPLE WEIGHT	: 5 g
TIME ANALYZED	: 14:55		

PARAMETER	QUANTITATION LIMIT	RESULTS	QUALIFIER
Total Petroleum Hydrocarbons - Gasoline Range	290 UG/KG	ND UG/KG	

QUALITY CONTROL DATA

SURROGATE COMPOUND	SPIKE ADDED	QC RECOVERY LIMITS	%RECOVERY
a,a,a-Trifluorotoluene	57.4 UG/KG	70 - 130	65

BATCH QUALITY CONTROL SAMPLE IDs

QC BATCH ID : G25	PREP BLANK ID : GBLK25	LCS ID : GLCS23
MS ID : 6060.006MS	MSD ID : 6060.006MSD	

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LABORATORY REPORT

TPH PURGEABLES BY GC/FID

CLIENT NAME :	MEVATEC	CLIENT SAMPLE ID :	26030-SB09-(16.5-17.0)QA
PROJECT NAME :	HELSTF TSA POOL	LAB SAMPLE ID :	6060.005
PROJECT NUMBER :		METHOD REFERENCE :	SW846-8015A
DATE SAMPLED :	5/4/00	DATE RECEIVED :	5/5/00
SAMPLE MATRIX :	SOIL	PRINTED ON :	5/31/2000 16:27

% MOISTURE	: 10.69	ANALYST	: DR
DATE ANALYZED	: 05/15/00	INSTRUMENT FILE	: B01099.D
INSTRUMENT ID	: B-HP5890	SAMPLE WEIGHT	: 5 g
TIME ANALYZED	: 15:22		

PARAMETER	QUANTITATION LIMIT	RESULTS	QUALIFIER
Total Petroleum Hydrocarbons - Gasoline Range	280 UG/KG	ND UG/KG	

QUALITY CONTROL DATA

SURROGATE COMPOUND	SPIKE ADDED	QC RECOVERY LIMITS	%RECOVERY
a,a,a-Trifluorotoluene	56 UG/KG	70 - 130	58

BATCH QUALITY CONTROL SAMPLE IDs

QC BATCH ID : G25	PREP BLANK ID : GBLK25	LCS ID : GLCS23
MS ID : 6060.006MS	MSD ID : 6060.006MSD	

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LABORATORY REPORT

TPH PURGEABLES BY GC/FID

CLIENT NAME :	MEVATEC	CLIENT SAMPLE ID :	26030-SB09-(31.5-32.0)QA
PROJECT NAME :	HELSTF TSA POOL	LAB SAMPLE ID :	6060.006
PROJECT NUMBER :		METHOD REFERENCE :	SW846-8015A
DATE SAMPLED :	5/4/00	DATE RECEIVED :	5/5/00
SAMPLE MATRIX :	SOIL	PRINTED ON :	5/31/2000 16:27

% MOISTURE	: 21.76	ANALYST	: DR
DATE ANALYZED	: 05/15/00	INSTRUMENT FILE	: B01100.D
INSTRUMENT ID	: B-HP5890	SAMPLE WEIGHT	: 5 g
TIME ANALYZED	: 15:49		

PARAMETER	QUANTITATION LIMIT	RESULTS	QUALIFIER
Total Petroleum Hydrocarbons - Gasoline Range	320 UG/KG	ND UG/KG	

QUALITY CONTROL DATA

SURROGATE COMPOUND	SPIKE ADDED	QC RECOVERY LIMITS	%RECOVERY
a,a,a-Trifluorotoluene	63.9 UG/KG	70 - 130	42

BATCH QUALITY CONTROL SAMPLE IDs

QC BATCH ID : G25	PREP BLANK ID : GBLK25	LCS ID : GLCS23
MS ID : 6060.006MS	MSD ID : 6060.006MSD	

Quality Control Data

BTEX/MTBE

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LABORATORY REPORT

BTEX & MTBE BY GC/PID

CLIENT NAME	:	CLIENT SAMPLE ID	: Prep Blank
PROJECT NAME	:	LAB SAMPLE ID	: BBLK29
PROJECT NUMBER	:	METHOD REFERENCE	: SW846-8021B
DATE SAMPLED	:	DATE RECEIVED	:
SAMPLE MATRIX	: SOLID	PRINTED ON	: 6/1/2000 8:58

% MOISTURE	:	ANALYST	: DR
DATE ANALYZED	: 05/08/00	INSTRUMENT FILE	: B00984.D
INSTRUMENT ID	: B-HP5890B	SAMPLE WEIGHT	: 5 g
TIME ANALYZED	: 10:25		

PARAMETER	QUANTITATION LIMIT		RESULTS		QUALIFIER
Benzene	5.0	UG/KG	ND	UG/KG	
Ethylbenzene	5.0	UG/KG	ND	UG/KG	
Methyl tert-butyl ether	5.0	UG/KG	ND	UG/KG	
Toluene	5.0	UG/KG	ND	UG/KG	
Xylene (total)	5.0	UG/KG	ND	UG/KG	

QUALITY CONTROL DATA

SURROGATE COMPOUND	SPIKE ADDED	QC RECOVERY LIMITS	%RECOVERY
a,a,a-Trifluorotoluene	50 UG/KG	70 - 130	98

BATCH QUALITY CONTROL SAMPLE IDs

QC BATCH ID : B28 PREP BLANK ID : BBLK28

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LABORATORY REPORT

BTEX & MTBE BY GC/PID

CLIENT NAME	:	CLIENT SAMPLE ID	: Prep Blank
PROJECT NAME	:	LAB SAMPLE ID	: BBLK30
PROJECT NUMBER	:	METHOD REFERENCE	: SW846-8021B
DATE SAMPLED	:	DATE RECEIVED	:
SAMPLE MATRIX	: SOLID	PRINTED ON	: 6/1/2000 8:58

% MOISTURE	:	ANALYST	: DR
DATE ANALYZED	: 05/09/00	INSTRUMENT FILE	: B01007.D
INSTRUMENT ID	: B-HP5890B	SAMPLE WEIGHT	: 5 g
TIME ANALYZED	: 09:21		

PARAMETER	QUANTITATION LIMIT		RESULTS		QUALIFIER
Benzene	5.0	UG/KG	ND	UG/KG	
Ethylbenzene	5.0	UG/KG	ND	UG/KG	
Methyl tert-butyl ether	5.0	UG/KG	ND	UG/KG	
Toluene	5.0	UG/KG	ND	UG/KG	
Xylene (total)	5.0	UG/KG	ND	UG/KG	

QUALITY CONTROL DATA

SURROGATE COMPOUND	SPIKE ADDED	QC RECOVERY LIMITS	%RECOVERY
a,a,a-Trifluorotoluene	50 UG/KG	70 - 130	103

BATCH QUALITY CONTROL SAMPLE IDs

QC BATCH ID : B30 PREP BLANK ID : BBLK30

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LABORATORY REPORT

BTEX & MTBE BY GC/PID

CLIENT NAME	:	CLIENT SAMPLE ID	: Lab Control Sample
PROJECT NAME	:	LAB SAMPLE ID	: BLCS29
PROJECT NUMBER	:	METHOD REFERENCE	: SW846-8021B
DATE SAMPLED	:	DATE RECEIVED	:
SAMPLE MATRIX	: SOLID	PRINTED ON	: 6/1/2000 8:58

% MOISTURE	:	ANALYST	: DR
DATE ANALYZED	: 05/08/00	INSTRUMENT FILE	: B00985.D
INSTRUMENT ID	: B-HP5890B	SAMPLE WEIGHT	: 5 g
TIME ANALYZED	: 11:06		

PARAMETER	QUANTITATION LIMIT		RESULTS		QUALIFIER
Benzene	5.0	UG/KG	55.6	UG/KG	
Ethylbenzene	5.0	UG/KG	49.0	UG/KG	
Methyl tert-butyl ether	5.0	UG/KG	57	UG/KG	
Toluene	5.0	UG/KG	48.0	UG/KG	
Xylene (total)	5.0	UG/KG	147	UG/KG	

QUALITY CONTROL DATA

SURROGATE COMPOUND	SPIKE ADDED	QC RECOVERY LIMITS	%RECOVERY
a,a,a-Trifluorotoluene	50 UG/KG	70 - 130	104

BATCH QUALITY CONTROL SAMPLE IDs

QC BATCH ID : B28 PREP BLANK ID : BBLK28

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LCS/LCSD SUMMARY REPORT

BTEX & MTBE BY GC/PID

CLIENT NAME :
PROJECT NAME :
PROJECT NUMBER :

DATE RECEIVED :
PRINTED ON : 6/1/2000 9:04

SAMPLE MATRIX : SOLID

METHOD REFERENCE : SW846-8021B

LAB CONTROL SAMPLE

LCS SAMPLE ID : BLCS29
CLIENT SAMPLE ID :
DATE ANALYZED : 05/08/00
INSTRUMENT FILE : B00985.D

LAB CONTROL SAMPLE DUPLICATE

LCSD SAMPLE ID :
CLIENT SAMPLE ID :
DATE ANALYZED :
INSTRUMENT FILE :

PARAMETER	UNIT	LCS TRUE VALUE	LCSD TRUE VALUE	LCS FOUND VALUE	LCSD FOUN VALUE	LCS RECOVER (%)	LCSD RECOVERY (%)	RPD	RPD LIMIT	QC LIMIT REC.
Benzene	UG/KG	50.0		55.6		111			30	70 - 130
Ethylbenzene	UG/KG	50.0		49.0		98			30	70 - 130
Methyl tert-butyl ether	UG/KG	50		57		114			30	70 - 130
Toluene	UG/KG	50.0		48.0		96			30	70 - 130
Xylene (total)	UG/KG	150		147		98			30	70 - 130

* Indicate values outside of QC limits

RPD : 0 out of 0 outside limits
Spike Recovery : 0 out of 5 outside limits

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LABORATORY REPORT

BTEX & MTBE BY GC/PID

CLIENT NAME	:	CLIENT SAMPLE ID :	Lab Control Sample
PROJECT NAME	:	LAB SAMPLE ID :	BLCS30
PROJECT NUMBER	:	METHOD REFERENCE :	SW846-8021B
DATE SAMPLED	:	DATE RECEIVED :	
SAMPLE MATRIX	: SOLID	PRINTED ON :	6/1/2000 9:02

% MOISTURE	:	ANALYST	: DR
DATE ANALYZED	: 05/09/00	INSTRUMENT FILE	: B01008.D
INSTRUMENT ID	: B-HP5890B	SAMPLE WEIGHT	: 5 g
TIME ANALYZED	: 10:05		

PARAMETER	QUANTITATION LIMIT	RESULTS	QUALIFIER
Benzene	5.0 UG/KG	57 UG/KG	
Ethylbenzene	5.0 UG/KG	49 UG/KG	
Methyl tert-butyl ether	5.0 UG/KG	57 UG/KG	
Toluene	5.0 UG/KG	48 UG/KG	
Xylene (total)	5.0 UG/KG	140 UG/KG	

QUALITY CONTROL DATA

SURROGATE COMPOUND	SPIKE ADDED	QC RECOVERY LIMITS	%RECOVERY
a,a,a-Trifluorotoluene	50 UG/KG	70 - 130	109

BATCH QUALITY CONTROL SAMPLE IDs

QC BATCH ID : B30 PREP BLANK ID : BBLK30

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LCS/LCSD SUMMARY REPORT

BTEX & MTBE BY GC/PID

CLIENT NAME :
PROJECT NAME :
PROJECT NUMBER :

DATE RECEIVED :
PRINTED ON : 6/1/2000 9:04

SAMPLE MATRIX : SOLID

METHOD REFERENCE : SW846-8021B

LAB CONTROL SAMPLE

LCS SAMPLE ID : BLCS30
CLIENT SAMPLE ID :
DATE ANALYZED : 05/09/00
INSTRUMENT FILE : B01008.D

LAB CONTROL SAMPLE DUPLICATE

LCSD SAMPLE ID :
CLIENT SAMPLE ID :
DATE ANALYZED :
INSTRUMENT FILE :

PARAMETER	UNIT	LCS TRUE VALUE	LCSD TRUE VALUE	LCS FOUND VALUE	LCSD FOUN VALUE	LCS RECOVER (%)	LCSD RECOVERY (%)	RPD	RPD LIMIT	QC LIMIT REC.
Benzene	UG/KG	50.0		57.0		114			30	70 - 130
Ethylbenzene	UG/KG	50.0		49.2		98			30	70 - 130
Methyl tert-butyl ether	UG/KG	50		57		114			30	70 - 130
Toluene	UG/KG	50.0		48.2		96			30	70 - 130
Xylene (total)	UG/KG	150		144		96			30	70 - 130

* Indicate values outside of QC limits

RPD : 0 out of 0 outside limits
Spike Recovery : 0 out of 5 outside limits

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LABORATORY REPORT

BTEX & MTBE BY GC/PID

CLIENT NAME :	MEVATEC	CLIENT SAMPLE ID :	26030-SB02-(16.5-17.0)2AMS1
PROJECT NAME :	HELSTF TSA POOL	LAB SAMPLE ID :	6060.001MS
PROJECT NUMBER :		METHOD REFERENCE :	SW846-8021B
DATE SAMPLED :	5/4/00	DATE RECEIVED :	5/5/00
SAMPLE MATRIX :	SOIL	PRINTED ON :	6/1/2000 9:04

% MOISTURE	: 4.43	ANALYST	: DR
DATE ANALYZED	: 05/09/00	INSTRUMENT FILE	: B01011.D
INSTRUMENT ID	: B-HP5890B	SAMPLE WEIGHT	: 5 g
TIME ANALYZED	: 11:55		

PARAMETER	QUANTITATION LIMIT	RESULTS	QUALIFIER
Benzene	5.2 UG/KG	45 UG/KG	
Ethylbenzene	5.2 UG/KG	44 UG/KG	
Methyl tert-butyl ether	5.2 UG/KG	44 UG/KG	
Toluene	5.2 UG/KG	43 UG/KG	
Xylene (total)	5.2 UG/KG	130 UG/KG	

QUALITY CONTROL DATA

SURROGATE COMPOUND	SPIKE ADDED	QC RECOVERY LIMITS	%RECOVERY
a,a,a-Trifluorotoluene	52.3 UG/KG	70 - 130	87

BATCH QUALITY CONTROL SAMPLE IDs

QC BATCH ID : B30 PREP BLANK ID : BBLK30 LCS ID : BLCS30

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LABORATORY REPORT

BTEX & MTBE BY GC/PID

CLIENT NAME :	MEVATEC	CLIENT SAMPLE ID :	26030-SB02-(16.5-17.0)2AMSD1
PROJECT NAME :	HELSTF TSA POOL	LAB SAMPLE ID :	6060.001MSD
PROJECT NUMBER :		METHOD REFERENCE :	SW846-8021B
DATE SAMPLED :	5/4/00	DATE RECEIVED :	5/5/00
SAMPLE MATRIX :	SOIL	PRINTED ON :	6/1/2000 9:05

% MOISTURE	: 4.43	ANALYST	: DR
DATE ANALYZED	: 05/09/00	INSTRUMENT FILE	: B01012.D
INSTRUMENT ID	: B-HP5890B	SAMPLE WEIGHT	: 5 g
TIME ANALYZED	: 12:22		

PARAMETER	QUANTITATION LIMIT	RESULTS	QUALIFIER
Benzene	5.2 UG/KG	44 UG/KG	
Ethylbenzene	5.2 UG/KG	43 UG/KG	
Methyl tert-butyl ether	5.2 UG/KG	44 UG/KG	
Toluene	5.2 UG/KG	40 UG/KG	
Xylene (total)	5.2 UG/KG	120 UG/KG	

QUALITY CONTROL DATA

SURROGATE COMPOUND	SPIKE ADDED	QC RECOVERY LIMITS	%RECOVERY
a,a,a-Trifluorotoluene	52.3 UG/KG	70 - 130	85

BATCH QUALITY CONTROL SAMPLE IDs

QC BATCH ID : B30 PREP BLANK ID : BBLK30 LCS ID : BLCS30

MS ID : 6060.001MS

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MS/MSD SUMMARY REPORT

BTEX & MTBE BY GC/PID

CLIENT NAME : MEVATEC
PROJECT NAME : HELSTF TSA POOL
PROJECT NUMBER :

DATE RECEIVED : 5/5/00
PRINTED ON : 6/1/2000 9:05

SAMPLE MATRIX : SOIL

METHOD REFERENCE : SW846-8021B

SAMPLE		MATRIX SPIKE		MATRIX SPIKE DUPLICATE	
SAMPLE ID	: 6060.001	MS SAMPLE ID	: 6060.001MS	MSD SAMPLE ID	: 6060.001MSD
CLIENT SAMPLE ID	: 26030-SB02-(16.5-17	CLIENT SAMPLE ID	: 26030-SB02-(16.5-17	CLIENT SAMPLE ID	: 26030-SB02-(16.5-17
DATE ANALYZED	: 05/08/00	DATE ANALYZED	: 05/09/00	DATE ANALYZED	: 05/09/00
INSTRUMENT FILE	: B00995.D	INSTRUMENT FILE	: B01011.D	INSTRUMENT FILE	: B01012.D

PARAMETER	UNITS	MS SPIKE ADDED	MSD SPIKE ADDED	SAMPL CONC.	MS CONC.	MSD CONC.	MS RECOVERY (%)	MSD RECOVERY (%)	RPD	RPD LIMIT	QC LIMIT REC.
Benzene	UG/KG	52.3	52.3	0	44.6	44.0	85	84	1.2	30	70 - 130
Ethylbenzene	UG/KG	52.3	52.3	0	43.9	43.3	84	83	1.2	30	70 - 130
Methyl tert-butyl ether	UG/KG	52	52	0	44	44	85	85	0.0	30	70 - 130
Toluene	UG/KG	52.3	52.3	0	43.4	40.3	83	77	7.5	30	70 - 130
Xylene (total)	UG/KG	157	157	2.9	130	123	81	76	6.4	30	70 - 130

* Indicate values outside of QC limits

RPD : 0 out of 5 outside limits
Spike Recovery : 0 out of 10 outside limits

TPH8015A-Purgeables

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LABORATORY REPORT

TPH PURGEABLES BY GC/FID

CLIENT NAME	:	CLIENT SAMPLE ID :	Prep Blank
PROJECT NAME	:	LAB SAMPLE ID :	GBLK24
PROJECT NUMBER	:	METHOD REFERENCE :	SW846-8015A
DATE SAMPLED	:	DATE RECEIVED :	
SAMPLE MATRIX	: SOLID	PRINTED ON :	5/31/2000 16:27

% MOISTURE	:	ANALYST	: DR
DATE ANALYZED	: 05/12/00	INSTRUMENT FILE	: B01072.D
INSTRUMENT ID	: B-HP5890	SAMPLE WEIGHT	: 5 g
TIME ANALYZED	: 20:58		

PARAMETER	QUANTITATION LIMIT	RESULTS	QUALIFIER
Total Petroleum Hydrocarbons - Gasoline Range	250 UG/KG	ND UG/KG	

QUALITY CONTROL DATA

SURROGATE COMPOUND	SPIKE ADDED	QC RECOVERY LIMITS	%RECOVERY
a,a,a-Trifluorotoluene	50 UG/KG	70 - 130	71

BATCH QUALITY CONTROL SAMPLE IDs

QC BATCH ID : G24 PREP BLANK ID : GBLK24

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LABORATORY REPORT

TPH PURGEABLES BY GC/FID

CLIENT NAME :		CLIENT SAMPLE ID :	Prep Blank
PROJECT NAME :		LAB SAMPLE ID :	GBLK25
PROJECT NUMBER :		METHOD REFERENCE :	SW846-8015A
DATE SAMPLED :		DATE RECEIVED :	
SAMPLE MATRIX :	SOLID	PRINTED ON :	5/31/2000 16:27

% MOISTURE :		ANALYST	: DR
DATE ANALYZED	: 05/15/00	INSTRUMENT FILE	: B01093.D
INSTRUMENT ID	: B-HP5890	SAMPLE WEIGHT	: 5 g
TIME ANALYZED	: 10:51		

PARAMETER	QUANTITATION LIMIT	RESULTS	QUALIFIER
Total Petroleum Hydrocarbons - Gasoline Range	250 UG/KG	ND UG/KG	

QUALITY CONTROL DATA

SURROGATE COMPOUND	SPIKE ADDED	QC RECOVERY LIMITS	%RECOVERY
a,a,a-Trifluorotoluene	50 UG/KG	70 - 130	73

BATCH QUALITY CONTROL SAMPLE IDs

QC BATCH ID : G25 PREP BLANK ID : GBLK25

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LABORATORY REPORT

TPH PURGEABLES BY GC/FID

CLIENT NAME :		CLIENT SAMPLE ID :	Lab Control Sample
PROJECT NAME :		LAB SAMPLE ID :	GLCS22
PROJECT NUMBER :		METHOD REFERENCE :	SW846-8015A
DATE SAMPLED :		DATE RECEIVED :	
SAMPLE MATRIX :	SOLID	PRINTED ON :	5/31/2000 16:27

% MOISTURE :		ANALYST	: DR
DATE ANALYZED	: 05/12/00	INSTRUMENT FILE	: B01074.D
INSTRUMENT ID	: B-HP5890	SAMPLE WEIGHT	: 5 g
TIME ANALYZED	: 21:53		

PARAMETER	QUANTITATION LIMIT	RESULTS	QUALIFIER
Total Petroleum Hydrocarbons - Gasoline Range	250 UG/KG	550 UG/KG	

QUALITY CONTROL DATA

SURROGATE COMPOUND	SPIKE ADDED	QC RECOVERY LIMITS	%RECOVERY
a,a,a-Trifluorotoluene	50 UG/KG	70 - 130	91

BATCH QUALITY CONTROL SAMPLE IDs

QC BATCH ID : G24 PREP BLANK ID : GBLK24

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LCS/LCSD SUMMARY REPORT

TPH PURGEABLES BY GC/FID

CLIENT NAME :
PROJECT NAME :
PROJECT NUMBER :

DATE RECEIVED :
PRINTED ON : 5/31/2000 16:27

SAMPLE MATRIX : SOLID
METHOD REFERENCE : SW846-8015A

LAB CONTROL SAMPLE
LCS SAMPLE ID : GLCS22
CLIENT SAMPLE ID :
DATE ANALYZED : 05/12/00
INSTRUMENT FILE : B01074.D

LAB CONTROL SAMPLE DUPLICATE
LCSD SAMPLE ID :
CLIENT SAMPLE ID :
DATE ANALYZED :
INSTRUMENT FILE :

PARAMETER	UNIT	LCS TRUE VALUE	LCSD TRUE VALUE	LCS FOUND VALUE	LCSD FOUN VALUE	LCS RECOVER (%)	LCSD RECOVERY (%)	RPD	RPD LIMIT	QC LIMIT REC.
Total Petroleum Hydrocarbons - G	UG/KG	750		545		73			30	70 - 130

* Indicate values outside of QC limits

RPD : 0 out of 0 outside limits
Spike Recovery : 0 out of 1 outside limits

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LABORATORY REPORT

TPH PURGEABLES BY GC/FID

CLIENT NAME :		CLIENT SAMPLE ID :	Lab Control Sample
PROJECT NAME :		LAB SAMPLE ID :	GLCS23
PROJECT NUMBER :		METHOD REFERENCE :	SW846-8015A
DATE SAMPLED :		DATE RECEIVED :	
SAMPLE MATRIX :	SOLID	PRINTED ON :	5/31/2000 16:27

% MOISTURE :		ANALYST	: DR
DATE ANALYZED	: 05/15/00	INSTRUMENT FILE	: B01094.D
INSTRUMENT ID	: B-HP5890	SAMPLE WEIGHT	: 5 g
TIME ANALYZED	: 11:40		

PARAMETER	QUANTITATION LIMIT	RESULTS	QUALIFIER
Total Petroleum Hydrocarbons - Gasoline Range	250 UG/KG	730 UG/KG	

QUALITY CONTROL DATA

SURROGATE COMPOUND	SPIKE ADDED	QC RECOVERY LIMITS	%RECOVERY
a,a,a-Trifluorotoluene	50 UG/KG	70 - 130	99

BATCH QUALITY CONTROL SAMPLE IDs

QC BATCH ID : G25 PREP BLANK ID : GBLK25

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LCS/LCSD SUMMARY REPORT

TPH PURGEABLES BY GC/FID

CLIENT NAME :
PROJECT NAME :
PROJECT NUMBER :

DATE RECEIVED :
PRINTED ON : 5/31/2000 16:27

SAMPLE MATRIX : SOLID

METHOD REFERENCE : SW846-8015A

LAB CONTROL SAMPLE

LCS SAMPLE ID : GLCS23
CLIENT SAMPLE ID :
DATE ANALYZED : 05/15/00
INSTRUMENT FILE : B01094.D

LAB CONTROL SAMPLE DUPLICATE

LCSD SAMPLE ID :
CLIENT SAMPLE ID :
DATE ANALYZED :
INSTRUMENT FILE :

PARAMETER	UNIT	LCS TRUE VALUE	LCSD TRUE VALUE	LCS FOUND VALUE	LCSD FOUN VALUE	LCS RECOVER (%)	LCSD RECOVERY (%)	RPD	RPD LIMIT	QC LIMIT REC.
Total Petroleum Hydrocarbons - G	UG/KG	750		732		98			30	70 - 130

* Indicate values outside of QC limits

RPD : 0 out of 0 outside limits
Spike Recovery : 0 out of 1 outside limits

PDP Analytical Services

1680 Lake Front Circle, Suite B, The Woodlands, TX 77380

LABORATORY REPORT

TPH PURGEABLES BY GC/FID

CLIENT NAME :	MEVATEC	CLIENT SAMPLE ID :	26030-SB09-(31.5-32.0)QAMS1
PROJECT NAME :	HELSTF TSA POOL	LAB SAMPLE ID :	6060.006MS
PROJECT NUMBER :		METHOD REFERENCE :	SW846-8015A
DATE SAMPLED :	5/4/00	DATE RECEIVED :	5/5/00
SAMPLE MATRIX :	SOIL	PRINTED ON :	5/31/2000 16:27

% MOISTURE	: 21.76	ANALYST	: DR
DATE ANALYZED	: 05/15/00	INSTRUMENT FILE	: B01101.D
INSTRUMENT ID	: B-HP5890	SAMPLE WEIGHT	: 5 g
TIME ANALYZED	: 16:16		

PARAMETER	QUANTITATION LIMIT	RESULTS	QUALIFIER
Total Petroleum Hydrocarbons - Gasoline Range	320 UG/KG	460 UG/KG	

QUALITY CONTROL DATA

SURROGATE COMPOUND	SPIKE ADDED	QC RECOVERY LIMITS	%RECOVERY
a,a,a-Trifluorotoluene	63.9 UG/KG	70 - 130	54

BATCH QUALITY CONTROL SAMPLE IDs

QC BATCH ID : G25 PREP BLANK ID : GBLK25 LCS ID : GLCS23

PDP Analytical Services

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LABORATORY REPORT

TPH PURGEABLES BY GC/FID

CLIENT NAME :	MEVATEC	CLIENT SAMPLE ID :	26030-SB09-(31.5-32.0)QAMSD1
PROJECT NAME :	HELSTF TSA POOL	LAB SAMPLE ID :	6060.006MSD
PROJECT NUMBER :		METHOD REFERENCE :	SW846-8015A
DATE SAMPLED :	5/4/00	DATE RECEIVED :	5/5/00
SAMPLE MATRIX :	SOIL	PRINTED ON :	5/31/2000 16:27

% MOISTURE	: 21.76	ANALYST	: DR
DATE ANALYZED	: 05/15/00	INSTRUMENT FILE	: B01102.D
INSTRUMENT ID	: B-HP5890	SAMPLE WEIGHT	: 5 g
TIME ANALYZED	: 16:43		

PARAMETER	QUANTITATION LIMIT	RESULTS	QUALIFIER
Total Petroleum Hydrocarbons - Gasoline Range	320 UG/KG	780 UG/KG	

QUALITY CONTROL DATA

SURROGATE COMPOUND	SPIKE ADDED	QC RECOVERY LIMITS	%RECOVERY
a,a,a-Trifluorotoluene	63.9 UG/KG	70 - 130	102

BATCH QUALITY CONTROL SAMPLE IDs

QC BATCH ID : G25 PREP BLANK ID : GBLK25 LCS ID : GLCS23

MS ID : 6060.006MS

PDP Analytical Services
1680 Lake Front Circle, Suite B, The Woodlands, TX 77380

MS/MSD SUMMARY REPORT
TPH PURGEABLES BY GC/FID

CLIENT NAME : MEVATEC
PROJECT NAME : HELSTF TSA POOL
PROJECT NUMBER :

DATE RECEIVED : 5/5/00
PRINTED ON : 5/31/2000 16:27

SAMPLE MATRIX : SOIL

METHOD REFERENCE : SW846-8015A

SAMPLE	MATRIX SPIKE	MATRIX SPIKE DUPLICATE
SAMPLE ID : 6060.006	MS SAMPLE ID : 6060.006MS	MSD SAMPLE ID : 6060.006MSD
CLIENT SAMPLE ID : 26030-SB09-(31.5-32	CLIENT SAMPLE ID : 26030-SB09-(31.5-32	CLIENT SAMPLE ID : 26030-SB09-(31.5-32
DATE ANALYZED : 05/15/00	DATE ANALYZED : 05/15/00	DATE ANALYZED : 05/15/00
INSTRUMENT FILE : B01100.D	INSTRUMENT FILE : B01101.D	INSTRUMENT FILE : B01102.D

PARAMETER	UNITS	MS SPIKE ADDED	MSD SPIKE ADDED	SAMPL CONC.	MS CONC.	MSD CONC.	MS RECOVERY (%)	MSD RECOVERY (%)	RPD	RPD LIMIT	QC LIMIT REC.
Total Petroleum Hydrocarbons - Ga	UG/KG	959	959	0	464	779	48 *	81	51.2 *	30	70 - 130

* Indicate values outside of QC limits

RPD : 1 out of 1 outside limits
Spike Recovery : 1 out of 2 outside limits

END OF REPORT

PDP
Analytical Services

1680 Lake Front Circle, Suite B
The Woodlands, Texas 77380
Phone (713) 363-2233
Fax (713) 298-5784

June 7, 2000

Greg Watterson
Mevatec Corporation
Building 126, 3rd Floor
White Sands Missile Range
NM 88022-0399

Episode: 6047
Project ID: Helstf TSA Pool
Project #: 700B9

Dear Mr. Watterson:

Enclosed are the analytical results samples received in our laboratory on May 3, 2000. The samples were analyzed for the parameters indicated on the chain of custody.

Please be advised that unused portions of your samples, sample extracts and digestates will be stored for 30 days from the date of this report. Unless prior arrangements were made, at the end of this period your samples will either be disposed of, or returned to you if your samples were determined to be hazardous.

We appreciate your business. Should you have any questions or need assistance with this report, please feel free to call me, at (281) 363-2233.

Sincerely,

Sean Sundquist
Project Manager

Enclosures

Cc: Episode File - 6047

CASE NARRATIVE

PDP Analytical Services
1680 Lake Front Circle Drive, Suite B The Woodlands, TX 77380
Phone: (281) 363-2233 Fax: (281) 298-5784

Episode No: 6047	Client: Mevatec	Project: Helstf TSA Pool

CASE NARRATIVE

Sample Receipt and Login

PDP Analytical Services received one (1) shipment, delivered by commercial carrier on 05/03/00. The two (2) soil samples were scheduled for a fourteen (14) day turn-around-time

No custody seals were present on the cooler. No other login discrepancies were found during login.

Sample Analysis Narrative

BTEX & MTBE

The samples were prepared on 05/04/00 and analyzed on 05/05/00. Target compounds were detected in the samples. Some sample required dilutions due to large target detections above the calibration range.

The low level matrix spike and matrix spike duplicate had low recoveries for all compounds due to the matrix of the sample. The matrix spike and matrix spike duplicate were re-run, and failed again so matrix effect was confirmed. The medium level matrix spike and matrix spike duplicate had high recoveries for Toluene due to the large target hit in the sample. The results are based on the laboratory control sample results. No problems were encountered in the analysis of these samples.

TPH-Gasoline Range Organics

The samples were prepared on 05/05/00 and analyzed by GC-MS on 05/10/00. Target compounds were detected in the samples. Some samples required dilutions due to the large target detections above the calibration range.

All method blanks and laboratory control samples met the quality control limits. The matrix spike and duplicate on sample 6047.001 met all quality control limits. The matrix spike and duplicate on sample 6047.002 had high recoveries due to non-homogeneity of the samples. No action was required and the results are based on the other quality control sample results.

PDP ANALYTICAL SERVICES
1680 Lake Front Circle, Suite B The Woodlands, Texas 77380

DATA FLAGS AND ABBREVIATIONS

B	This flag is used when the analyte is found in the associated blank as well as in the sample.
D	Indicates that the compound could not be detected because it was diluted out.
DL	This flag identifies an analysis at a secondary dilution factor.
E	This flag identifies compounds whose concentrations exceed the calibration range of the instrument for that specific analysis. A more accurate quantitation is obtained from a diluted sample analysis.
I	This flag is used to indicate the presence of interference which resulted in not determining the value.
J	This flag is used when the data indicates the presence of a compound below the quanitation limit as determined by the identification criteria.
NA	Not applicable.
NC	Not calculated.
ND	Indicates a compound was analyzed for but not detected at the quantitation level.
P	This flag is used for a pesticide/aroclor target analyte when there is greater than 25% difference for detected concentrations between the two GC columns.
RE	This flag is used when the sample is re-extracted and re-analyzed.
RA	This flag is used when the sample is re-analyzed.
U	This flag indicates that the compound was analyzed for but not detected.
*	Indicates that the compound is out of the Quality Control limits.

Z:\NETDATA\QA\FORMS\QC\DFAA0796.DOC

CHAIN OF CUSTODY

MEVATEC CORPORATION
P.O. Box 399
Bldg. 126
WSMR, NM 88002
(505) 678-0263

CHAIN OF CUSTODY RECORD

PAGE 1 OF 1

PROJECT NO.: 70089
PROJECT NAME: HELSTF TSA POL
SAMPLER'S SIGNATURE:

DATE COLLECTED	TIME COLLECTED	SAMPLE ID	MATRIX	LAB NO.	NO. OF CONTAINERS	6010 Mod	BTEX+MTBE	REMARKS
						ANALYSIS REQUESTED		6047
5/2/00	1542	26030-5801-(11.5-12.0)-QA	Soil		1	X	X	.001
5/2/00	1620	26030-5201-(36.5-37.0)QA	Soil		1	X	X	.002

PROJECT INFORMATION			1. RELINQUISHED BY: (SIGNATURE)	2. RELINQUISHED BY: (SIGNATURE)	3. RECEIVED BY LABORATORY: (SIGNATURE)
PROJECT MANAGER: George Mason P.E.	SAMPLES RECEIVED				Carlos Pirir
	TOTAL NO. OF CONTAINERS		(PRINTED NAME) Gregg Hetherson	(PRINTED NAME)	(PRINTED NAME) CARLOS PIRIR
SHIPPING ID. NO.	CHAIN OF CUSTODY SEALS		RECEIVED BY:	RECEIVED BY:	(COMPANY) PDP Analytical Services
	GOOD CONDITION/CHILLED		(TIME / DATE)	(TIME / DATE)	(TIME / DATE) 5-3-00 9:02
VIA: Fed Ex	CONFORMS TO RECORD		SPECIAL INSTRUCTIONS / COMMENTS: Must be extracted within 48 hrs of sampling, per NM Env. Dept.		

PLEASE USE BALL POINT PEN

DISTRIBUTION: WHITE - PROJECT FILES; YELLOW - LAB; PINK - FIELD COPY

PDP ANALYTICAL SERVICES

1680 Lake Front Circle, Suite B, The Woodlands, TX 77380

SAMPLE LOG-IN CHECKLIST/DISCREPANCY REPORT

EPISODE #: 6047 DATE/ REC'D: 5-3-00 9:02 TIME TEMP & ID: 1) 4°C # A

CLIENT NAME: Mevatec CORPORATION 2) ____ # ____

PROJECT NAME: HELSTF TSA POL 3) ____ # ____

PROJECT NUMBER: 70089 4) ____ # ____

— AQUEOUS, # 2 SOIL SAMPLES 5) ____ # ____

COURIER/AIRBILL # FedEx 819302177689 6) ____ # ____

SAMPLE CONTAINER SEALS: present absent (intact) broken

COOLER CUSTODY SEALS: present (absent) intact broken NAME & DATE: ____

HOW MANY AND WHERE ____

	YES	NO
Were samples screened for radioactivity?	✓	
Chain-of-custody present?	✓	
Custody documents: Sealed in a plastic bag?	✓	
Signed and dated by field personnel	✓	
Filled out properly in indelable ink?	✓	
Signed and dated by log-in personnel?	✓	
Container Condition: Each containers sealed in a separate plastic bag?	✓	
Labels complete (ID, date, time, signature, preservative, etc.)?	✓	
Labels agree with chain-of-custody?	✓	
Received without leakage or breakage? If no, list :	✓	
Correct quantity indicated on chain-of-custody?	✓	
Sample Integrity: Correct containers used for the test indicated? If no, list:	✓	
Correct preservatives added to the samples? If no, list:	✓	
Sufficient sample amount sent for the tests indicated? If no, list	✓	
VOA vials filled completely? If no, list:	NA	
Aqueous volatiles samples preserved? If no, list:	NA	

Descrepancy Report:

Discepancies to be discussed with the client?

Project Manager's recommendations?

Who was notified? By whom? Date:

Client's comments:

Corrective actions carried out?

COMMENTS:

For those short holding time and fast turn-around parameters, has a Rush Notification sheet been issued to the lab? | | |

LOG-IN BY: Carlos Pirir DATE: 5-3-00

z:\netdata\qa\forms\admin\scdr0398

PDP Analytical Services

1680 Lake Front Circle, Suite B, The Woodlands TX 77380

Sample Log-In Report

Logged By: MG

Report Date: 5/3/2000 14:34:15

Client Name: MEVATEC
Client Project Name: HELSTF TSA POOL
ClientProject #:
P.O. No.: 700B9
Courier/No.:

Lab Project ID: MEVATEC-Q1306
Date Logged: 05/03/00
Date Received: 05/03/00
Time Received: 9:02

Lab Sample ID	Client Sample ID	No. Cont.	Sample Matrix	Date Sampled	Time Sampled	Chain Of Custody No.	Date Due	Remarks
6047.001	26030-SB01-(11.5-12.0)	1	SOIL	05/02/00	15:42	6047		
	Tests Required							
	- BTEX8021B/MTBE						05/17/00	
	- TPH8015A-PURGEABLES						05/17/00	
6047.002	26030-SB01-(36.5-37.0)	1	SOIL	05/02/00	16:20	6047		
	Tests Required							
	- BTEX8021B/MTBE						05/17/00	
	- TPH8015A-PURGEABLES						05/17/00	

Instructions To Lab:

EXTRACT SAMPLES WITHIN 48 HRS OF SAMPLING!
EDD REQUIRED

SCS 5/3/00

Lab Approval

Client Approval

0000007

PDP
Analytical Services
1680 Lake Front Circle, Suite 8
The Woodlands, Texas 77380
Phone (281) 363-2233
Fax (281) 298-5786
e-mail pdp@pdpanalytical.com

SAMPLE RECEIPT and LOGIN VERIFICATION

** Please fax immediately**

To: Annette Cunningham Date & Time: 5/3/00

Company: Mevatec Pages: 2

Fax #: 505 678-6096 Episode: 6047

→ Please Ref PO # 00B-2008 on all documents for this P.O. !

Dear Valued Client:

We have taken every effort to insure that the samples you have submitted to us are assigned the correct sample identifications and analysis. However, only you can make the final determination. Please review the following PDP sample login sheet against the chain of custody that you have submitted to us. If you agree that the information is correct and that you authorize the work to be performed as stated on the sample login sheet, then please sign below and fax the form back to us within 24 hours. If PDP has not received authorization within 24 hours, then the analysis will be initiated as per the sample login sheet. However, PDP will not be held responsible for any problems that may arise without authorization. If you find discrepancies or wish to make changes, please advise us by telephone within 24 hours so that we may incorportate the changes.

With your cooperation, we will be able to process your testing more efficiently. Please coordinate with Sean Sundquist or Rick Schrynemeeckers with any changes or problems. We appreciate your help.

I authorize the work to be performed as on the PDP sample login sheet.

Signature: J B Murray, P.E

Title: DPM

Date & Time: 3 May 00

If this fax message is received poorly or incomplete, please notify us at the above number.

PDP Analytical Services

1680 Lake Front Circle, Suite B, The Woodlands TX 77380

Sample Log-In Report

Logged By: MG

Report Date: 5/3/2000 14:34:15

Client Name: NEVATEC
Client Project Name: NELSTF TSA POOL
Client/Project #:
P.O. No.: 700B9
Courier/No.:

Lab Project ID: NEVATEC-6\396
Date Logged: 05/03/00
Date Received: 05/03/00
Time Received: 9:02

Lab Sample ID	Client Sample ID	No. Cont.	Sample Matrix	Date Sampled	Time Sampled	Chain Of Custody No.	Date Due	Remarks
6047.001	26030-SB01-(11.5-12.0)	1	SOIL	05/02/00	15:42	6047		
	Tests Required							
	- BTEX8021B/MTBE						05/17/00	
	- TPH8015A-PURGEABLES						05/17/00	
6047.002	26030-SB01-(36.5-37.0)	1	SOIL	05/02/00	16:20	6047		
	Tests Required							
	- BTEX8021B/MTBE						05/17/00	
	- TPH8015A-PURGEABLES						05/17/00	

Instructions To Lab:

EXTRACT SAMPLES WITHIN 48 HRS OF SAMPLING!
EDD REQUIRED

SWS 5/3/00
Lab Approval

Client Approval

Sample Data

BTEX/MTBE

PDP Analytical Services

1680 Lake Front Circle, Suite B, The Woodlands, TX 77380

LABORATORY REPORT

BTEX & MTBE BY GC/PID

CLIENT NAME :	MEVATEC	CLIENT SAMPLE ID :	26030-SB01-(11.5-12.0)-QA
PROJECT NAME :	HELSTF TSA POOL	LAB SAMPLE ID :	6047.001
PROJECT NUMBER :		METHOD REFERENCE :	SW846-8021B
DATE SAMPLED :	5/2/00	DATE RECEIVED :	5/3/00
SAMPLE MATRIX :	SOIL	PRINTED ON :	5/25/2000 15:00

% MOISTURE	: 15.38	ALIQUOT VOLUME	: 100 uL
ANALYST	: DR	DATE ANALYZED	: 05/05/00
DILUTION	: 40000	EXTRACT VOLUME	: 10000 uL
INSTRUMENT FILE	: B00966.D	INSTRUMENT ID	: B-HP5890B
SAMPLE WEIGHT	: 4 g	TIME ANALYZED	: 19:27

PARAMETER	QUANTITATION LIMIT		RESULTS		QUALIFIER
Benzene	30000000	UG/KG	49000000	UG/KG	
Ethyl benzene	30000000	UG/KG	250000000	UG/KG	
Methyl tert-butyl ether	30000000	UG/KG	ND	UG/KG	
Toluene	30000000	UG/KG	610000000	UG/KG	
Xylene (total)	30000000	UG/KG	750000000	UG/KG	

QUALITY CONTROL DATA

SURROGATE COMPOUND	SPIKE ADDED		QC RECOVERY LIMITS	%RECOVERY
a,a,a-Trifluorotoluene	295000000	UG/KG	70 - 130	

BATCH QUALITY CONTROL SAMPLE IDs

QC BATCH ID : BB27A	PREP BLANK ID : BBLK27A	LCS ID : BLCS27A
MS ID : 6047.001MS	MSD ID : 6047.001MSD	

PDP Analytical Services

1680 Lake Front Circle, Suite B, The Woodlands, TX 77380

LABORATORY REPORT

BTEX & MTBE BY GC/PID

CLIENT NAME :	MEVATEC	CLIENT SAMPLE ID :	26030-SB01-(36.5-37.0)-QA
PROJECT NAME :	HELSTF TSA POOL	LAB SAMPLE ID :	6047.002
PROJECT NUMBER :		METHOD REFERENCE :	SW846-8021B
DATE SAMPLED :	5/2/00	DATE RECEIVED :	5/3/00
SAMPLE MATRIX :	SOIL	PRINTED ON :	5/25/2000 15:07

% MOISTURE	: 26.12	ALIQUOT VOLUME	: 100 uL
ANALYST	: DR	DATE ANALYZED	: 05/05/00
DILUTION	: 1	EXTRACT VOLUME	: 10000 uL
INSTRUMENT FILE	: B00967.D	INSTRUMENT ID	: B-HP5890B
SAMPLE WEIGHT	: 4 g	TIME ANALYZED	: 19:54

PARAMETER	QUANTITATION LIMIT	RESULTS	QUALIFIER
Benzene	850 UG/KG	ND UG/KG	
Ethyl benzene	850 UG/KG	ND UG/KG	
Methyl tert-butyl ether	850 UG/KG	ND UG/KG	
Toluene	850 UG/KG	580 UG/KG	J
Xylene (total)	850 UG/KG	360 UG/KG	J

QUALITY CONTROL DATA

SURROGATE COMPOUND	SPIKE ADDED	QC RECOVERY LIMITS	%RECOVERY
a,a,a-Trifluorotoluene	8460 UG/KG	70 - 130	79

BATCH QUALITY CONTROL SAMPLE IDs

QC BATCH ID : BB27A	PREP BLANK ID : BBLK27A	LCS ID : BLCS27A
MS ID : 6047.001MS	MSD ID : 6047.001MSD	

TPH8015A-Purgeables

PDP Analytical Services

1680 Lake Front Circle, Suite B, The Woodlands, TX 77380

LABORATORY REPORT

TPH PURGEABLES BY GC/FID

CLIENT NAME :	MEVATEC	CLIENT SAMPLE ID :	26030-SB01-(11.5-12.0)-QA
PROJECT NAME :	HELSTF TSA POOL	LAB SAMPLE ID :	6047.001
PROJECT NUMBER :		METHOD REFERENCE :	SW846-8015A
DATE SAMPLED :	5/2/00	DATE RECEIVED :	5/3/00
SAMPLE MATRIX :	SOIL	PRINTED ON :	6/1/2000 10:06

% MOISTURE	: 15.38	ALIQUOT VOLUME	: 100 uL
ANALYST	: DR	DATE ANALYZED	: 05/16/00
DILUTION	: 25000	EXTRACT VOLUME	: 10000 uL
INSTRUMENT FILE	: B01116.D	INSTRUMENT ID	: B-HP5890
SAMPLE WEIGHT	: 4 g	TIME ANALYZED	: 16:02

PARAMETER	QUANTITATION LIMIT	RESULTS	QUALIFIER
Total Petroleum Hydrocarbons - Gasoline Range	920000000 UG/KG	600000000 UG/KG	J

QUALITY CONTROL DATA

SURROGATE COMPOUND	SPIKE ADDED	QC RECOVERY LIMITS	%RECOVERY
a,a,a-Trifluorotoluene	185000000 UG/KG	70 - 130	87

BATCH QUALITY CONTROL SAMPLE IDs

QC BATCH ID :G26	PREP BLANK ID :GBLK26	LCS ID :GLCS24
MS ID :6047.001MS	MSD ID :6047.001MSD	

PDP Analytical Services

1680 Lake Front Circle, Suite B, The Woodlands, TX 77380

LABORATORY REPORT

TPH PURGEABLES BY GC/FID

CLIENT NAME :	MEVATEC	CLIENT SAMPLE ID :	26030-SB01-(36.5-37.0)-QA
PROJECT NAME :	HELSTF TSA POOL	LAB SAMPLE ID :	6047.002
PROJECT NUMBER :		METHOD REFERENCE :	SW846-8015A
DATE SAMPLED :	5/2/00	DATE RECEIVED :	5/3/00
SAMPLE MATRIX :	SOIL	PRINTED ON :	5/26/2000 15:48

% MOISTURE	: 26.12	ANALYST	: DR
DATE ANALYZED	: 05/10/00	INSTRUMENT FILE	: B01034.D
INSTRUMENT ID	: B-HP5890	SAMPLE WEIGHT	: 5 g
TIME ANALYZED	: 20:38		

PARAMETER	QUANTITATION LIMIT	RESULTS	QUALIFIER
Total Petroleum Hydrocarbons - Gasoline Range	340 UG/KG	200 UG/KG	J

QUALITY CONTROL DATA

SURROGATE COMPOUND	SPIKE ADDED	QC RECOVERY LIMITS	%RECOVERY
a,a,a-Trifluorotoluene	67.7 UG/KG	70 - 130	89

BATCH QUALITY CONTROL SAMPLE IDs

QC BATCH ID : G20A	PREP BLANK ID : GBLK20A	LCS ID : GLCS20A
MS ID : 6047.002MS	MSD ID : 6047.002MSD	

Quality Control Data

BTEX/MTBE

PDP Analytical Services

1680 Lake Front Circle, Suite B, The Woodlands, TX 77380

LABORATORY REPORT

BTEX & MTBE BY GC/PID

CLIENT NAME :		CLIENT SAMPLE ID :	Prep Blank
PROJECT NAME :		LAB SAMPLE ID :	BBLK27A
PROJECT NUMBER :		METHOD REFERENCE :	SW846-8021B
DATE SAMPLED :		DATE RECEIVED :	
SAMPLE MATRIX :	SOLID	PRINTED ON :	5/25/2000 15:00

% MOISTURE	:	ALIQUOT VOLUME	: 100 uL
ANALYST	: DR	DATE ANALYZED	: 05/05/00
DILUTION	: 1	EXTRACT VOLUME	: 10000 uL
INSTRUMENT FILE	: B00951.A	INSTRUMENT ID	: B-HP5890B
SAMPLE WEIGHT	: 4 g	TIME ANALYZED	: 10:14

PARAMETER	QUANTITATION LIMIT	RESULTS	QUALIFIER
Benzene	620 UG/KG	ND UG/KG	
Ethyl benzene	620 UG/KG	ND UG/KG	
Methyl tert-butyl ether	620 UG/KG	ND UG/KG	
Toluene	620 UG/KG	ND UG/KG	
Xylene (total)	620 UG/KG	ND UG/KG	

QUALITY CONTROL DATA

SURROGATE COMPOUND	SPIKE ADDED	QC RECOVERY LIMITS	%RECOVERY
a,a,a-Trifluorotoluene	6250 UG/KG	70 - 130	102

BATCH QUALITY CONTROL SAMPLE IDs

QC BATCH ID : BB27A PREP BLANK ID : BBLK27A

PDP Analytical Services

1680 Lake Front Circle, Suite B, The Woodlands, TX 77380

LABORATORY REPORT

BTEX & MTBE BY GC/PID

CLIENT NAME	:	CLIENT SAMPLE ID	: Lab Control Sample
PROJECT NAME	:	LAB SAMPLE ID	: BLCS27A
PROJECT NUMBER	:	METHOD REFERENCE	: SW846-8021B
DATE SAMPLED	:	DATE RECEIVED	:
SAMPLE MATRIX	: SOLID	PRINTED ON	: 5/25/2000 15:00

% MOISTURE	:	ALIQUOT VOLUME	: 100 uL
ANALYST	: DR	DATE ANALYZED	: 05/05/00
DILUTION	: 1	EXTRACT VOLUME	: 10000 uL
INSTRUMENT FILE	: B00952.D	INSTRUMENT ID	: B-HP5890B
SAMPLE WEIGHT	: 4 g	TIME ANALYZED	: 12:23

PARAMETER	QUANTITATION LIMIT	RESULTS	QUALIFIER
Benzene	620 UG/KG	6800 UG/KG	
Ethyl benzene	620 UG/KG	5800 UG/KG	
Methyl tert-butyl ether	620 UG/KG	7200 UG/KG	
Toluene	620 UG/KG	5800 UG/KG	
Xylene (total)	620 UG/KG	17000 UG/KG	

QUALITY CONTROL DATA

SURROGATE COMPOUND	SPIKE ADDED	QC RECOVERY LIMITS	%RECOVERY
a,a,a-Trifluorotoluene	6250 UG/KG	70 - 130	105

BATCH QUALITY CONTROL SAMPLE IDs

QC BATCH ID : BB27A PREP BLANK ID : BBLK27A

PDP Analytical Services

1680 Lake Front Circle, Suite B, The Woodlands, TX 77380

LCS/LCSD SUMMARY REPORT

BTEX & MTBE BY GC/PID

CLIENT NAME :
PROJECT NAME :
PROJECT NUMBER :

DATE RECEIVED :
PRINTED ON :5/25/2000 15:00

SAMPLE MATRIX :SOLID

METHOD REFERENCE :SW846-8021B

LAB CONTROL SAMPLE

LCS SAMPLE ID :BLCS27A
CLIENT SAMPLE ID :
DATE ANALYZED :05/05/00
INSTRUMENT FILE :B00952.D

LAB CONTROL SAMPLE DUPLICATE

LCSD SAMPLE ID :
CLIENT SAMPLE ID :
DATE ANALYZED :
INSTRUMENT FILE :

PARAMETER	UNIT	LCS TRUE VALUE	LCSD TRUE VALUE	LCS FOUND VALUE	LCSD FOUN VALUE	LCS RECOVER (%)	LCSD RECOVERY (%)	RPD	RPD LIMIT	QC LIMIT REC.
Benzene	UG/KG	6250		6830		109			30	70 - 130
Ethyl benzene	UG/KG	6250		5810		93			30	70 - 130
Methyl tert-butyl ether	UG/KG	6250		7180		115			30	70 - 130
Toluene	UG/KG	6250		5810		93			30	70 - 130
Xylene (total)	UG/KG	18800		17500		93			30	70 - 130

* Indicate values outside of QC limits

RPD : 0 out of 0 outside limits
Spike Recovery : 0 out of 5 outside limits

PDP Analytical Services

1680 Lake Front Circle, Suite B, The Woodlands, TX 77380

LABORATORY REPORT

BTEX & MTBE BY GC/PID

CLIENT NAME	: MEVATEC	CLIENT SAMPLE ID	: 26030-SB01-(11.5-12.0)-QAMS1
PROJECT NAME	: HELSTF TSA POOL	LAB SAMPLE ID	: 6047.001MS
PROJECT NUMBER	:	METHOD REFERENCE	: SW846-8021B
DATE SAMPLED	: 5/2/00	DATE RECEIVED	: 5/3/00
SAMPLE MATRIX	: SOIL	PRINTED ON	: 5/25/2000 15:00

% MOISTURE	: 15.38	ALIQUOT VOLUME	: 100 uL
ANALYST	: DR	DATE ANALYZED	: 05/05/00
DILUTION	: 40000	EXTRACT VOLUME	: 10000 uL
INSTRUMENT FILE	: B00964.D	INSTRUMENT ID	: B-HP5890B
SAMPLE WEIGHT	: 4 g	TIME ANALYZED	: 18:33

PARAMETER	QUANTITATION LIMIT	RESULTS	QUALIFIER
Benzene	30000000 UG/KG	360000000 UG/KG	
Ethyl benzene	30000000 UG/KG	550000000 UG/KG	
Methyl tert-butyl ether	30000000 UG/KG	310000000 UG/KG	
Toluene	30000000 UG/KG	970000000 UG/KG	
Xylene (total)	30000000 UG/KG	700000000 UG/KG	

QUALITY CONTROL DATA

SURROGATE COMPOUND	SPIKE ADDED	QC RECOVERY LIMITS	%RECOVERY
a,a,a-Trifluorotoluene	295000000 UG/KG	70 - 130	97

BATCH QUALITY CONTROL SAMPLE IDs

QC BATCH ID : BB27A PREP BLANK ID : BBLK27A LCS ID : BLCS27A

PDP Analytical Services

1680 Lake Front Circle, Suite B, The Woodlands, TX 77380

LABORATORY REPORT

BTEX & MTBE BY GC/PID

CLIENT NAME :	MEVATEC	CLIENT SAMPLE ID :	26030-SB01-(11.5-12.0)-QAMSD1
PROJECT NAME :	HELSTF TSA POOL	LAB SAMPLE ID :	6047.001MSD
PROJECT NUMBER :		METHOD REFERENCE :	SW846-8021B
DATE SAMPLED :	5/2/00	DATE RECEIVED :	5/3/00
SAMPLE MATRIX :	SOIL	PRINTED ON :	5/25/2000 15:00

% MOISTURE	: 15.38	ALIQUOT VOLUME	: 100 uL
ANALYST	: DR	DATE ANALYZED	: 05/05/00
DILUTION	: 40000	EXTRACT VOLUME	: 10000 uL
INSTRUMENT FILE	: B00965.D	INSTRUMENT ID	: B-HP5890B
SAMPLE WEIGHT	: 4 g	TIME ANALYZED	: 19:00

PARAMETER	QUANTITATION LIMIT	RESULTS	QUALIFIER
Benzene	30000000 UG/KG	360000000 UG/KG	
Ethyl benzene	30000000 UG/KG	590000000 UG/KG	
Methyl tert-butyl ether	30000000 UG/KG	320000000 UG/KG	
Toluene	30000000 UG/KG	100000000 UG/KG	
Xylene (total)	30000000 UG/KG	800000000 UG/KG	

QUALITY CONTROL DATA

SURROGATE COMPOUND	SPIKE ADDED	QC RECOVERY LIMITS	%RECOVERY
a,a,a-Trifluorotoluene	295000000 UG/KG	70 - 130	

BATCH QUALITY CONTROL SAMPLE IDs

QC BATCH ID : BB27A PREP BLANK ID : BBLK27A LCS ID : BLCS27A

MS ID : 6047.001MS

PDP Analytical Services

1680 Lake Front Circle, Suite B, The Woodlands, TX 77380

MS/MSD SUMMARY REPORT

BTEX & MTBE BY GC/PID

CLIENT NAME : MEVATEC
PROJECT NAME : HELSTF TSA POOL
PROJECT NUMBER :

DATE RECEIVED : 5/3/00
PRINTED ON : 5/25/2000 15:00

SAMPLE MATRIX : SOIL

METHOD REFERENCE : SW846-8021B

SAMPLE	MATRIX SPIKE	MATRIX SPIKE DUPLICATE
SAMPLE ID : 6047.001	MS SAMPLE ID : 6047.001MS	MSD SAMPLE ID : 6047.001MSD
CLIENT SAMPLE ID : 26030-SB01-(11.5-12	CLIENT SAMPLE ID : 26030-SB01-(11.5-12	CLIENT SAMPLE ID : 26030-SB01-(11.5-12
DATE ANALYZED : 05/05/00	DATE ANALYZED : 05/05/00	DATE ANALYZED : 05/05/00
INSTRUMENT FILE : B00966.D	INSTRUMENT FILE : B00964.D	INSTRUMENT FILE : B00965.D

PARAMETER	UNITS	MS SPIKE ADDED	MSD SPIKE ADDED	SAMPL CONC.	MS CONC.	MSD CONC.	MS RECOVERY (%)	MSD RECOVERY (%)	RPD	RPD LIMIT	QC LIMIT REC.
Benzene	UG/KG	00000	00000	00000	00000	00000	107	106	0.9	30	70 - 130
Ethyl benzene	UG/KG	00000	00000	00000	00000	00000	101	115	13.0	30	70 - 130
Methyl tert-butyl ether	UG/KG	00000	00000	0	00000	00000	106	109	2.8	30	70 - 130
Toluene	UG/KG	00000	00000	00000	00000	00000	122	149 *	19.9	30	70 - 130
Xylene (total)	UG/KG	00000	00000	00000	00000	00000	105	121	14.2	30	70 - 130

* Indicate values outside of QC limits

RPD : 0 out of 5 outside limits
Spike Recovery : 1 out of 10 outside limits

PDP Analytical Services

1680 Lake Front Circle, Suite B, The Woodlands, TX 77380

LABORATORY REPORT

BTEX & MTBE BY GC/PID

CLIENT NAME :	MEVATEC	CLIENT SAMPLE ID :	26030-SB05-(31.5-32.0) QAMS1
PROJECT NAME :	HELSTF TSA POOL	LAB SAMPLE ID :	6053.008MS
PROJECT NUMBER :		METHOD REFERENCE :	SW846-8021B
DATE SAMPLED :	5/3/00	DATE RECEIVED :	5/4/00
SAMPLE MATRIX :	SOIL	PRINTED ON :	5/25/2000 15:02

% MOISTURE	: 23.29	ANALYST	: DR
DATE ANALYZED	: 05/06/00	INSTRUMENT FILE	: B00979.D
INSTRUMENT ID	: B-HP5890B	SAMPLE WEIGHT	: 5 g
TIME ANALYZED	: 01:19		

PARAMETER	QUANTITATION LIMIT	RESULTS	QUALIFIER
Benzene	6.6 UG/KG	38 UG/KG	
Ethylbenzene	6.6 UG/KG	15 UG/KG	
Methyl tert-butyl ether	6.6 UG/KG	51 UG/KG	
Toluene	6.6 UG/KG	24 UG/KG	
Xylene (total)	6.6 UG/KG	51 UG/KG	

QUALITY CONTROL DATA

SURROGATE COMPOUND	SPIKE ADDED	QC RECOVERY LIMITS	%RECOVERY
a,a,a-Trifluorotoluene	65.2 UG/KG	70 - 130	52

BATCH QUALITY CONTROL SAMPLE IDs

QC BATCH ID : B28	PREP BLANK ID : BBLK28	LCS ID : BLCS28

PDP Analytical Services

1680 Lake Front Circle, Suite B, The Woodlands, TX 77380

LABORATORY REPORT

BTEX & MTBE BY GC/PID

CLIENT NAME :	MEVATEC	CLIENT SAMPLE ID :	26030-SB05-(31.5-32.0) QAMSD1
PROJECT NAME :	HELSTF TSA POOL	LAB SAMPLE ID :	6053.008MSD
PROJECT NUMBER :		METHOD REFERENCE :	SW846-8021B
DATE SAMPLED :	5/3/00	DATE RECEIVED :	5/4/00
SAMPLE MATRIX :	SOIL	PRINTED ON :	5/25/2000 15:02

% MOISTURE	: 23.29	ANALYST	: DR
DATE ANALYZED	: 05/06/00	INSTRUMENT FILE	: B00980.D
INSTRUMENT ID	: B-HP5890B	SAMPLE WEIGHT	: 5 g
TIME ANALYZED	: 01:46		

PARAMETER	QUANTITATION LIMIT	RESULTS	QUALIFIER
Benzene	6.6 UG/KG	14 UG/KG	
Ethylbenzene	6.6 UG/KG	6.5 UG/KG	J
Methyl tert-butyl ether	6.6 UG/KG	22 UG/KG	
Toluene	6.6 UG/KG	9.2 UG/KG	
Xylene (total)	6.6 UG/KG	16 UG/KG	

QUALITY CONTROL DATA

SURROGATE COMPOUND	SPIKE ADDED	QC RECOVERY LIMITS	%RECOVERY
a,a,a-Trifluorotoluene	65.2 UG/KG	70 - 130	

BATCH QUALITY CONTROL SAMPLE IDs

QC BATCH ID : B28 PREP BLANK ID : BBLK28 LCS ID : BLCS28

MS ID : 6053.008MS

PDP Analytical Services

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MS/MSD SUMMARY REPORT

BTEX & MTBE BY GC/PID

CLIENT NAME : MEVATEC
PROJECT NAME : HELSTF TSA POOL
PROJECT NUMBER :

DATE RECEIVED : 5/4/00
PRINTED ON : 5/25/2000 15:02

SAMPLE MATRIX : SOIL

METHOD REFERENCE : SW846-8021B

SAMPLE	MATRIX SPIKE	MATRIX SPIKE DUPLICATE
SAMPLE ID : 6053.008	MS SAMPLE ID : 6053.008MS	MSD SAMPLE ID : 6053.008MSD
CLIENT SAMPLE ID : 26030-SB05-(31.5-32	CLIENT SAMPLE ID : 26030-SB05-(31.5-32	CLIENT SAMPLE ID : 26030-SB05-(31.5-32
DATE ANALYZED : 05/08/00	DATE ANALYZED : 05/06/00	DATE ANALYZED : 05/06/00
INSTRUMENT FILE : B00989.D	INSTRUMENT FILE : B00979.D	INSTRUMENT FILE : B00980.D

PARAMETER	UNITS	MS SPIKE ADDED	MSD SPIKE ADDED	SAMPL CONC.	MS CONC.	MSD CONC.	MS RECOVERY (%)	MSD RECOVERY (%)	RPD	RPD LIMIT	QC LIMIT REC.
Benzene	UG/KG	65.2	65.2	0	38.1	13.6	58 *	21 *	93.7 *	30	70 - 130
Ethylbenzene	UG/KG	65.2	65.2	0	15.2	6.49	23 *	10 *	78.8 *	30	70 - 130
Methyl tert-butyl ether	UG/KG	65	65	0	51	22	78	34 *	78.6 *	30	70 - 130
Toluene	UG/KG	65.2	65.2	0	23.6	9.20	36 *	14 *	88.0 *	30	70 - 130
Xylene (total)	UG/KG	196	196	0	51.0	15.6	26 *	8 *	105.9 *	30	70 - 130

* Indicate values outside of QC limits

RPD : 5 out of 5 outside limits
Spike Recovery : 9 out of 10 outside limits

TPH8015A-Purgeables

PDP Analytical Services
1680 Lake Front Circle, Suite B, The Woodlands, TX 77380

LABORATORY REPORT

TPH PURGEABLES BY GC/FID

CLIENT NAME	:	CLIENT SAMPLE ID	: Prep Blank
PROJECT NAME	:	LAB SAMPLE ID	: GBLK20A
PROJECT NUMBER	:	METHOD REFERENCE	: SW846-8015A
DATE SAMPLED	:	DATE RECEIVED	:
SAMPLE MATRIX	: SOLID	PRINTED ON	: 5/26/2000 15:03

% MOISTURE	:	ANALYST	: DR
DATE ANALYZED	: 05/10/00	INSTRUMENT FILE	: B01016.D
INSTRUMENT ID	: B-HP5890	SAMPLE WEIGHT	: 5 g
TIME ANALYZED	: 11:38		

PARAMETER	QUANTITATION LIMIT	RESULTS	QUALIFIER
Total Petroleum Hydrocarbons - Gasoline Range	250 UG/KG	ND UG/KG	

QUALITY CONTROL DATA

SURROGATE COMPOUND	SPIKE ADDED	QC RECOVERY LIMITS	%RECOVERY
a,a,a-Trifluorotoluene	50 UG/KG	70 - 130	110

BATCH QUALITY CONTROL SAMPLE IDs

QC BATCH ID : G20A PREP BLANK ID : GBLK20A

PDP Analytical Services

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LABORATORY REPORT

TPH PURGEABLES BY GC/FID

CLIENT NAME :		CLIENT SAMPLE ID :	Prep Blank
PROJECT NAME :		LAB SAMPLE ID :	GBLK26
PROJECT NUMBER :		METHOD REFERENCE :	SW846-8015A
DATE SAMPLED :		DATE RECEIVED :	
SAMPLE MATRIX :	SOLID	PRINTED ON :	5/26/2000 15:03

% MOISTURE :		ALIQUOT VOLUME	: 100 uL
ANALYST	: DR	DATE ANALYZED	: 04/16/00
DILUTION	: 1	EXTRACT VOLUME	: 10000 uL
INSTRUMENT FILE	: B01112.D	INSTRUMENT ID	: B-HP5890
SAMPLE WEIGHT	: 4 g	TIME ANALYZED	: 13:46

PARAMETER	QUANTITATION LIMIT	RESULTS	QUALIFIER
Total Petroleum Hydrocarbons - Gasoline Range	31000 UG/KG	ND UG/KG	

QUALITY CONTROL DATA

SURROGATE COMPOUND	SPIKE ADDED	QC RECOVERY LIMITS	%RECOVERY
a,a,a-Trifluorotoluene	6250 UG/KG	70 - 130	77

BATCH QUALITY CONTROL SAMPLE IDs

QC BATCH ID : G26 PREP BLANK ID : GBLK26

PDP Analytical Services

1680 Lake Front Circle, Suite B, The Woodlands, TX 77380

LABORATORY REPORT

TPH PURGEABLES BY GC/FID

CLIENT NAME	:	CLIENT SAMPLE ID	: Lab Control Sample
PROJECT NAME	:	LAB SAMPLE ID	: GLCS20A
PROJECT NUMBER	:	METHOD REFERENCE	: SW846-8015A
DATE SAMPLED	:	DATE RECEIVED	:
SAMPLE MATRIX	: SOLID	PRINTED ON	: 5/26/2000 15:03

% MOISTURE	:	ANALYST	: DR
DATE ANALYZED	: 05/10/00	INSTRUMENT FILE	: B01017.D
INSTRUMENT ID	: B-HP5890	SAMPLE WEIGHT	: 5 g
TIME ANALYZED	: 12:05		

PARAMETER	QUANTITATION LIMIT	RESULTS	QUALIFIER
Total Petroleum Hydrocarbons - Gasoline Range	250 UG/KG	800 UG/KG	

QUALITY CONTROL DATA

SURROGATE COMPOUND	SPIKE ADDED	QC RECOVERY LIMITS	%RECOVERY
a,a,a-Trifluorotoluene	50 UG/KG	70 - 130	106

BATCH QUALITY CONTROL SAMPLE IDs

QC BATCH ID : G20A PREP BLANK ID : GBLK20A

PDP Analytical Services
1680 Lake Front Circle, Suite B, The Woodlands, TX 77380

LCS/LCSD SUMMARY REPORT

TPH PURGEABLES BY GC/FID

CLIENT NAME :
PROJECT NAME :
PROJECT NUMBER :

DATE RECEIVED :
PRINTED ON : 5/26/2000 15:03

SAMPLE MATRIX : SOLID

METHOD REFERENCE : SW846-8015A

LAB CONTROL SAMPLE

LCS SAMPLE ID : GLCS20A
CLIENT SAMPLE ID :
DATE ANALYZED : 05/10/00
INSTRUMENT FILE : B01017.D

LAB CONTROL SAMPLE DUPLICATE

LCSD SAMPLE ID :
CLIENT SAMPLE ID :
DATE ANALYZED :
INSTRUMENT FILE :

PARAMETER	UNIT	LCS TRUE VALUE	LCSD TRUE VALUE	LCS FOUND VALUE	LCSD FOUN VALUE	LCS RECOVER (%)	LCSD RECOVERY (%)	RPD	RPD LIMIT	QC LIMIT REC.
Total Petroleum Hydrocarbons - G	UG/KG	750		805		107			30	70 - 130

* Indicate values outside of QC limits

RPD : 0 out of 0 outside limits
Spike Recovery : 0 out of 1 outside limits

PDP Analytical Services

1680 Lake Front Circle, Suite B, The Woodlands, TX 77380

LABORATORY REPORT

TPH PURGEABLES BY GC/FID

CLIENT NAME :		CLIENT SAMPLE ID :	Lab Control Sample
PROJECT NAME :		LAB SAMPLE ID :	GLCS24
PROJECT NUMBER :		METHOD REFERENCE :	SW846-8015A
DATE SAMPLED :		DATE RECEIVED :	
SAMPLE MATRIX :	SOLID	PRINTED ON :	5/26/2000 15:03

% MOISTURE :		ALIQUOT VOLUME	: 100 uL
ANALYST	: DR	DATE ANALYZED	: 04/16/00
DILUTION	: 1	EXTRACT VOLUME	: 10000 uL
INSTRUMENT FILE	: B01113.D	INSTRUMENT ID	: B-HP5890
SAMPLE WEIGHT	: 4 g	TIME ANALYZED	: 14:21

PARAMETER	QUANTITATION LIMIT	RESULTS	QUALIFIER
Total Petroleum Hydrocarbons - Gasoline Range	31000 UG/KG	94000 UG/KG	

QUALITY CONTROL DATA

SURROGATE COMPOUND	SPIKE ADDED	QC RECOVERY LIMITS	%RECOVERY
a,a,a-Trifluorotoluene	6250 UG/KG	70 - 130	96

BATCH QUALITY CONTROL SAMPLE IDs

QC BATCH ID : G26 PREP BLANK ID : GBLK26

PDP Analytical Services
1680 Lake Front Circle, Suite B, The Woodlands, TX 77380

LCS/LCSD SUMMARY REPORT
TPH PURGEABLES BY GC/FID

CLIENT NAME :
PROJECT NAME :
PROJECT NUMBER :

DATE RECEIVED :
PRINTED ON : 5/26/2000 15:03

SAMPLE MATRIX : SOLID
METHOD REFERENCE : SW846-8015A

LAB CONTROL SAMPLE
LCS SAMPLE ID : GLCS24
CLIENT SAMPLE ID :
DATE ANALYZED : 04/16/00
INSTRUMENT FILE : B01113.D

LAB CONTROL SAMPLE DUPLICATE
LCSD SAMPLE ID :
CLIENT SAMPLE ID :
DATE ANALYZED :
INSTRUMENT FILE :

PARAMETER	UNIT	LCS TRUE VALUE	LCSD TRUE VALUE	LCS FOUND VALUE	LCSD FOUN VALUE	LCS RECOVER (%)	LCSD RECOVERY (%)	RPD	RPD LIMIT	QC LIMIT REC.
Total Petroleum Hydrocarbons - G	UG/KG	93800		93700		100			30	70 - 130

* Indicate values outside of QC limits

RPD : 0 out of 0 outside limits
Spike Recovery : 0 out of 1 outside limits

PDP Analytical Services

1680 Lake Front Circle, Suite B, The Woodlands, TX 77380

LABORATORY REPORT

TPH PURGEABLES BY GC/FID

CLIENT NAME :	MEVATEC	CLIENT SAMPLE ID :	26030-SB01-(11.5-12.0)-QAMS1
PROJECT NAME :	HELSTF TSA POOL	LAB SAMPLE ID :	6047.001MS
PROJECT NUMBER :		METHOD REFERENCE :	SW846-8015A
DATE SAMPLED :	5/2/00	DATE RECEIVED :	5/3/00
SAMPLE MATRIX :	SOIL	PRINTED ON :	6/1/2000 10:06

% MOISTURE	: 15.38	ALIQUOT VOLUME	: 100 uL
ANALYST	: DR	DATE ANALYZED	: 05/16/00
DILUTION	: 25000	EXTRACT VOLUME	: 10000 uL
INSTRUMENT FILE	: B01117.D	INSTRUMENT ID	: B-HP5890
SAMPLE WEIGHT	: 4 g	TIME ANALYZED	: 16:29

PARAMETER	QUANTITATION LIMIT	RESULTS	QUALIFIER
Total Petroleum Hydrocarbons - Gasoline Range	920000000 UG/KG	100000000 UG/KG	J

QUALITY CONTROL DATA

SURROGATE COMPOUND	SPIKE ADDED	QC RECOVERY LIMITS	%RECOVERY
a,a,a-Trifluorotoluene	185000000 UG/KG	70 - 130	103

BATCH QUALITY CONTROL SAMPLE IDs

QC BATCH ID :G26 PREP BLANK ID :GBLK26 LCS ID :GLCS24

PDP Analytical Services

1680 Lake Front Circle, Suite B, The Woodlands, TX 77380

LABORATORY REPORT

TPH PURGEABLES BY GC/FID

CLIENT NAME :	MEVATEC	CLIENT SAMPLE ID :	26030-SB01-(11.5-12.0)-QAMSD1
PROJECT NAME :	HELSTF TSA POOL	LAB SAMPLE ID :	6047.001MSD
PROJECT NUMBER :		METHOD REFERENCE :	SW846-8015A
DATE SAMPLED :	5/2/00	DATE RECEIVED :	5/3/00
SAMPLE MATRIX :	SOIL	PRINTED ON :	6/1/2000 10:11

% MOISTURE	: 15.38	ALIQUOT VOLUME	: 100 uL
ANALYST	: DR	DATE ANALYZED	: 05/16/00
DILUTION	: 25000	EXTRACT VOLUME	: 10000 uL
INSTRUMENT FILE	: B01118.D	INSTRUMENT ID	: B-HP5890
SAMPLE WEIGHT	: 4 g	TIME ANALYZED	: 16:56

PARAMETER	QUANTITATION LIMIT	RESULTS	QUALIFIER
Total Petroleum Hydrocarbons - Gasoline Range	920000000 UG/KG	100000000 UG/KG	J

QUALITY CONTROL DATA

SURROGATE COMPOUND	SPIKE ADDED	QC RECOVERY LIMITS	%RECOVERY
a,a,a-Trifluorotoluene	185000000 UG/KG	70 - 130	104

BATCH QUALITY CONTROL SAMPLE IDs

QC BATCH ID :G26 PREP BLANK ID :GBLK26 LCS ID :GLCS24

MS ID :6047.001MS

PDP Analytical Services
1680 Lake Front Circle, Suite B, The Woodlands, TX 77380

MS/MSD SUMMARY REPORT

TPH PURGEABLES BY GC/FID

CLIENT NAME : MEVATEC
PROJECT NAME : HELSTF TSA POOL
PROJECT NUMBER :

DATE RECEIVED : 5/3/00
PRINTED ON : 6/1/2000 10:06

SAMPLE MATRIX : SOIL
METHOD REFERENCE : SW846-8015A

SAMPLE	MATRIX SPIKE	MATRIX SPIKE DUPLICATE
SAMPLE ID : 6047.001	MS SAMPLE ID : 6047.001MS	MSD SAMPLE ID : 6047.001MSD
CLIENT SAMPLE ID : 26030-SB01-(11.5-12.	CLIENT SAMPLE ID : 26030-SB01-(11.5-12.	CLIENT SAMPLE ID : 26030-SB01-(11.5-12.
DATE ANALYZED : 05/16/00	DATE ANALYZED : 05/16/00	DATE ANALYZED : 05/16/00
INSTRUMENT FILE : B01116.D	INSTRUMENT FILE : B01117.D	INSTRUMENT FILE : B01118.D

PARAMETER	UNITS	MS SPIKE ADDED	MSD SPIKE ADDED	SAMPL CONC.	MS CONC.	MSD CONC.	MS RECOVERY (%)	MSD RECOVERY (%)	RPD	RPD LIMIT	QC LIMIT REC.
Total Petroleum Hydrocarbons - Ga	UG/KG	00000	00000	00000	00000	00000	90	91	1.1	30	70 - 130

* Indicate values outside of QC limits

RPD : 0 out of 1 outside limits
Spike Recovery : 0 out of 2 outside limits

PDP Analytical Services

1680 Lake Front Circle, Suite B, The Woodlands, TX 77380

LABORATORY REPORT

TPH PURGEABLES BY GC/FID

CLIENT NAME :	MEVATEC	CLIENT SAMPLE ID :	26030-SB01-(36.5-37.0)-QAMS1
PROJECT NAME :	HELSTF TSA POOL	LAB SAMPLE ID :	6047.002MS
PROJECT NUMBER :		METHOD REFERENCE :	SW846-8015A
DATE SAMPLED :	5/2/00	DATE RECEIVED :	5/3/00
SAMPLE MATRIX :	SOIL	PRINTED ON :	5/26/2000 15:03

% MOISTURE	: 26.12	ANALYST	: DR
DATE ANALYZED	: 05/10/00	INSTRUMENT FILE	: B01020.D
INSTRUMENT ID	: B-HP5890	SAMPLE WEIGHT	: 5 g
TIME ANALYZED	: 14:19		

PARAMETER	QUANTITATION LIMIT	RESULTS	QUALIFIER
Total Petroleum Hydrocarbons - Gasoline Range	340 UG/KG	1700 UG/KG	

QUALITY CONTROL DATA

SURROGATE COMPOUND	SPIKE ADDED	QC RECOVERY LIMITS	%RECOVERY
a,a,a-Trifluorotoluene	67.7 UG/KG	70 - 130	102

BATCH QUALITY CONTROL SAMPLE IDs

QC BATCH ID : G20A	PREP BLANK ID : GBLK20A	LCS ID : GLCS20A

PDP Analytical Services

1680 Lake Front Circle, Suite B, The Woodlands, TX 77380

LABORATORY REPORT

TPH PURGEABLES BY GC/FID

CLIENT NAME :	MEVATEC	CLIENT SAMPLE ID :	26030-SB01-(36.5-37.0)-QAMSD1
PROJECT NAME :	HELSTF TSA POOL	LAB SAMPLE ID :	6047.002MSD
PROJECT NUMBER :		METHOD REFERENCE :	SW846-8015A
DATE SAMPLED :	5/2/00	DATE RECEIVED :	5/3/00
SAMPLE MATRIX :	SOIL	PRINTED ON :	5/26/2000 15:03

% MOISTURE	: 26.12	ANALYST	: DR
DATE ANALYZED	: 05/10/00	INSTRUMENT FILE	: B01021.D
INSTRUMENT ID	: B-HP5890	SAMPLE WEIGHT	: 5 g
TIME ANALYZED	: 14:46		

PARAMETER	QUANTITATION LIMIT	RESULTS	QUALIFIER
Total Petroleum Hydrocarbons - Gasoline Range	340 UG/KG	1400 UG/KG	

QUALITY CONTROL DATA

SURROGATE COMPOUND	SPIKE ADDED	QC RECOVERY LIMITS	%RECOVERY
a,a,a-Trifluorotoluene	67.7 UG/KG	70 - 130	98

BATCH QUALITY CONTROL SAMPLE IDs

QC BATCH ID : G20A PREP BLANK ID : GBLK20A LCS ID : GLCS20A

MS ID : 6047.002MS

PDP Analytical Services

1680 Lake Front Circle, Suite B, The Woodlands, TX 77380

MS/MSD SUMMARY REPORT

TPH PURGEABLES BY GC/FID

CLIENT NAME : MEVATEC
PROJECT NAME : HELSTF TSA POOL
PROJECT NUMBER :

DATE RECEIVED : 5/3/00
PRINTED ON : 5/26/2000 15:03

SAMPLE MATRIX : SOIL

METHOD REFERENCE : SW846-8015A

SAMPLE	MATRIX SPIKE	MATRIX SPIKE DUPLICATE
SAMPLE ID : 6047.002	MS SAMPLE ID : 6047.002MS	MSD SAMPLE ID : 6047.002MSD
CLIENT SAMPLE ID : 26030-SB01-(36.5-37	CLIENT SAMPLE ID : 26030-SB01-(36.5-37	CLIENT SAMPLE ID : 26030-SB01-(36.5-37
DATE ANALYZED : 05/10/00	DATE ANALYZED : 05/10/00	DATE ANALYZED : 05/10/00
INSTRUMENT FILE : B01034.D	INSTRUMENT FILE : B01020.D	INSTRUMENT FILE : B01021.D

PARAMETER	UNITS	MS SPIKE ADDED	MSD SPIKE ADDED	SAMPL CONC.	MS CONC.	MSD CONC.	MS RECOVERY (%)	MSD RECOVERY (%)	RPD	RPD LIMIT	QC LIMIT REC.
Total Petroleum Hydrocarbons - Ga	UG/KG	1020	1020	200	1680	1350	145 *	113	24.8	30	70 - 130

* Indicate values outside of QC limits

RPD : 0 out of 1 outside limits
Spike Recovery : 1 out of 2 outside limits

END OF REPORT

PDP
Analytical Services

1680 Lake Front Circle, Suite B
The Woodlands, Texas 77380
Phone (713) 363-2233
Fax (713) 298-5784

June 7, 2000

Greg Watterson
Mevatec Corporation
Building 126, 3rd Floor
White Sands Missile Range
NM 88022-0399

Episode: 6053
Project ID: Helstf TSA Pool
Project #: 700B9

Dear Mr. Watterson:

Enclosed are the analytical results samples received in our laboratory on May 4, 2000. The samples were analyzed for the parameters indicated on the chain of custody.

Please be advised that unused portions of your samples, sample extracts and digestates will be stored for 30 days from the date of this report. Unless prior arrangements were made, at the end of this period your samples will either be disposed of, or returned to you if your samples were determined to be hazardous.

We appreciate your business. Should you have any questions or need assistance with this report, please feel free to call me, at (281) 363-2233.

Sincerely,

Sean Sundquist
Project Manager

Enclosures

Cc: Episode File - 6053

CASE NARRATIVE

PDP Analytical Services
1680 Lake Front Circle Drive, Suite B The Woodlands, TX 77380
Phone: (281) 363-2233 Fax: (281) 298-5784

Episode No: 6053	Client: Mevatec	Project: Helstf TSA Pool

CASE NARRATIVE

Sample Receipt and Login

PDP Analytical Services received one (1) shipment, delivered by commercial carrier on 05/04/00. The eight (8) soil samples were scheduled for a fourteen (14) day turn-around-time

No discrepancies were found during login.

Sample Analysis Narrative

BTEX & MTBE

The samples were prepared on 05/05/00 and analyzed on 05/08/00. Target compounds were detected in the samples.

The matrix spike and matrix spike duplicate had low recoveries for all compounds due to the matrix of the sample. The matrix spike and matrix spike duplicate were re-run, and failed again so matrix effect was confirmed. The results are based on the laboratory control sample results. No problems were encountered in the analysis of these samples.

TPH-Gasoline Range Organics

The samples were prepared on 05/06/00 and analyzed by GC-MS on 05/10/00. Target compounds were detected in the samples.

The matrix spike and matrix spike duplicate had low recoveries due to the matrix of the sample. The matrix spike and duplicate were re-run, and failed again so the matrix effect was confirmed. Since all other quality control data met their requirements, no action was necessary. No other problems were encountered in the analysis of these samples.

PDP ANALYTICAL SERVICES
1680 Lake Front Circle, Suite B The Woodlands, Texas 77380

DATA FLAGS AND ABBREVIATIONS

B	This flag is used when the analyte is found in the associated blank as well as in the sample.
D	Indicates that the compound could not be detected because it was diluted out.
DL	This flag identifies an analysis at a secondary dilution factor.
E	This flag identifies compounds whose concentrations exceed the calibration range of the instrument for that specific analysis. A more accurate quantitation is obtained from a diluted sample analysis.
I	This flag is used to indicate the presence of interference which resulted in not determining the value.
J	This flag is used when the data indicates the presence of a compound below the quanitation limit as determined by the identification criteria.
NA	Not applicable.
NC	Not calculated.
ND	Indicates a compound was analyzed for but not detected at the quantitation level.
P	This flag is used for a pesticide/aroclor target analyte when there is greater than 25% difference for detected concentrations between the two GC columns.
RE	This flag is used when the sample is re-extracted and re-analyzed.
RA	This flag is used when the sample is re-analyzed.
U	This flag indicates that the compound was analyzed for but not detected.
*	Indicates that the compound is out of the Quality Control limits.

CHAIN OF CUSTODY

PIRS

MEVATEC CORPORATION
P.O. Box 399
Bldg. 126
WSMR, NM 88002
(505) 678-0263

PO# unavailable call 505 678-1541 to verify PO# if required

CHAIN OF CUSTODY RECORD

PAGE 1 OF 1

PROJECT NO.	PROJECT NAME
70089	HELSTF TDA POL

SAMPLER'S SIGNATURE: [signature]

DATE COLLECTED	TIME COLLECTED	SAMPLE ID	MATRIX	LAB NO.	NO. OF CONTAINERS	ANALYSIS REQUESTED: SOIL Mod 8015	ANALYSIS REQUESTED: BTEX + MTBE	REMARKS
								6053
5/3/00	0804	26030-SB03-(16.5-17.0) QA	~~Aqueous~~ Soil		1	X	X	.001
5/3/00	0826	26030-SB03-(31.5-32.0) QA	Soil		1	X	X	.002
5/3/00	1020	26030-SB04-(16.5-17.0) QA	Soil		1	X	X	.003
5/3/00	1040	26030-SB04-(31.5-32.0) QA	Soil		1	X	X	.004
5/3/00	1332	26030-SB06-(16.5-17.0) QA	Soil		1	X	X	.005
5/3/00	1352	26030-SB06-(31.5-32.0) QA	Soil		1	X	X	.006
5/3/00	1500	26030-SB05-(16.5-17.0) QA	Soil		1	X	X	.007
5/3/00	1525	26030-SB05-(31.5-32.0) QA	Soil		1	X	X	.008

PROJECT INFORMATION	SAMPLES RECEIVED	1. RELINQUISHED BY: (SIGNATURE) [signature]	2. RELINQUISHED BY: (SIGNATURE)	3. RECEIVED BY LABORATORY: (SIGNATURE) Carlos Pirir
PROJECT MANAGER George Mason PE	TOTAL NO. OF CONTAINERS	(PRINTED NAME) Greg Watterson	(PRINTED NAME)	(PRINTED NAME) CARLOS PIRIR
SHIPPING ID. NO.	CHAIN OF CUSTODY SEALS	RECEIVED BY:	RECEIVED BY:	(COMPANY) PDP Analytical
VIA: Fed Ex	GOOD CONDITION/CHILLED	(TIME / DATE)	(TIME / DATE)	(TIME / DATE) 5-4-00 9:00
	CONFORMS TO RECORD	SPECIAL INSTRUCTIONS / COMMENTS: Must be extracted in 48 hrs to be accepted by NM Env. Dept.		

PLEASE USE BALL POINT PEN

DISTRIBUTION: WHITE - PROJECT FILES; YELLOW - LAB; PINK - FIELD COPY

000005

PDP ANALYTICAL SERVICES
1680 Lake Front Circle, Suite B, The Woodlands, TX 77380

SAMPLE LOG-IN CHECKLIST/DISCREPANCY REPORT

EPISODE #: 6053 DATE/ TIME REC'D: 5-4-00 9:00 TEMP & ID: 1) 3°C # A

CLIENT NAME: Mevatec CORP 2)____ #____

PROJECT NAME: HeL STF TSA POL 3)____ #____

PROJECT NUMBER: 700B9 4)____ #____

— AQUEOUS, # 8 SOIL SAMPLES 5)____ #____

COURIER/AIRBILL # FedEX 819302177678 6)____ #____

SAMPLE CONTAINER SEALS: present absent (intact) broken

COOLER CUSTODY SEALS: present absent (intact) broken NAME & DATE: NA

HOW MANY AND WHERE One, on the front

	YES	NO
Were samples screened for radioactivity?	✓	
Chain-of-custody present?	✓	
Custody documents: Sealed in a plastic bag?	✓	
Signed and dated by field personnel	✓	
Filled out properly in indelable ink?	✓	
Signed and dated by log-in personnel?	✓	
Container Condition: Each containers sealed in a separate plastic bag?	✓	
Labels complete (ID, date, time, signature, preservative, etc.)?	✓	
Labels agree with chain-of-custody?	✓	
Received without leakage or breakage? If no, list :	✓	
Correct quantity indicated on chain-of-custody?	✓	
Sample Integrity: Correct containers used for the test indicated? If no, list:	✓	
Correct preservatives added to the samples? If no, list:	✓	
Sufficient sample amount sent for the tests indicated? If no, list	✓	
VOA vials filled completely? If no, list:	NA	
Aqueous volatiles samples preserved? If no, list:	NA	

Descrepancy Report:

Discepancies to be discussed with the client?

Project Manager's recommendations?

Who was notified? By whom? Date:

Client's comments:

Corrective actions carried out?

COMMENTS:

For those short holding time and fast turn-around parameters, has a Rush Notification sheet been issued to the lab?

LOG-IN BY: Carlos Pérez DATE: 5-4-00

z:\netdata\qa\forms\admin\scdr0398

PDP Analytical Services
1680 Lake Front Circle, Suite B, The Woodlands TX 77380
Sample Log-In Report

Logged By: MG **Report Date:** 5/4/2000 12:25:59

Client Name: MEVATEC **Lab Project ID:** EVATEC
Client Project Name: HELSTF TSA POOL **Date Logged:** 05/04/00
ClientProject #: **Date Received:** 05/04/00
P.O. No.: 700B9 **Time Received:** 9:00
Courier/No.:

Lab Sample ID	Client Sample ID	No. Cont.	Sample Matrix	Date Sampled	Time Sampled	Chain Of Custody No.	Date Due	Remarks
6053.001	26030-SB03-(16.5-17.0)	1	SOIL	05/03/00	08:04	6053		
	Tests Required							
	- BTEX8021B/MTBE						05/18/00	
	- TPH8015A-PURGEABLES						05/18/00	
6053.002	26030-SB03-(31.5-32.0)	1	SOIL	05/03/00	08:26	6053		
	Tests Required							
	- BTEX8021B/MTBE						05/18/00	
	- TPH8015A-PURGEABLES						05/18/00	
6053.003	26030-SB04-(16.5-17.0)	1	SOIL	05/03/00	10:20	6053		
	Tests Required							
	- BTEX8021B/MTBE						05/18/00	
	- TPH8015A-PURGEABLES						05/18/00	
6053.004	26030-SB04-(31.5-32.0)	1	SOIL	05/03/00	10:40	6053		
	Tests Required							
	- BTEX8021B/MTBE						05/18/00	
	- TPH8015A-PURGEABLES						05/18/00	
6053.005	26030-SB06-(16.5-17.0)	1	SOIL	05/03/00	13:32	6053		
	Tests Required							
	- BTEX8021B/MTBE						05/18/00	
	- TPH8015A-PURGEABLES						05/18/00	
6053.006	26030-SB06-(31.5-32.0)	1	SOIL	05/03/00	13:52	6053		
	Tests Required							
	- BTEX8021B/MTBE						05/18/00	
	- TPH8015A-PURGEABLES						05/18/00	
6053.007	26030-SB05-(16.5-17.0)	1	SOIL	05/03/00	15:00	6053		
	Tests Required							
	- BTEX8021B/MTBE						05/18/00	
	- TPH8015A-PURGEABLES						05/18/00	
6053.008	26030-SB05-(31.5-32.0)	1	SOIL	05/03/00	15:25	6053		
	Tests Required							
	- BTEX8021B/MTBE						05/18/00	
	- TPH8015A-PURGEABLES						05/18/00	

SVS 5/4/00

Lab Approval **Client Approval**

PDP Analytical Services
1680 Lake Front Circle, Suite B, The Woodlands TX 77380
Sample Log-In Report

Logged By: MG

Report Date: 5/4/2000 12:26:00

Client Name: MEVATEC
Client Project Name: HELSTF TSA POOL
ClientProject #:
P.O. No.: 700B9
Courier/No.:

Lab Project ID: EVATEC
Date Logged: 05/04/00
Date Received: 05/04/00
Time Received: 9:00

Lab Sample ID	Client Sample ID	No. Cont.	Sample Matrix	Date Sampled	Time Sampled	Chain Of Custody No.	Date Due	Remarks

Instructions To Lab:

EXTRACT SAMPLES WITHIN 48 HRS OF SAMPLING!
EDD REQUIRED

Gus 5/4/00
Lab Approval

Client Approval

PDP
Analytical Services
1680 Lake Front Circle, Suite B
The Woodlands, Texas 77380
Phone (281) 363-2235
Fax (281) 298-5784
e-mail pdp@pdpanalytical.com

SAMPLE RECEIPT and LOGIN VERIFICATION

** Please fax immediately**

To: Annette Cunningham Date & Time: 5/4/00

Company: Mevatec Pages: 3

Fax #: 505 678-6096 Episode: 6053

Dear Valued Client:

We have taken every effort to insure that the samples you have submitted to us are assigned the correct sample identifications and analysis. However, only you can make the final determination. Please review the following PDP sample login sheet against the chain of custody that you have submitted to us. If you agree that the information is correct and that you authorize the work to be performed as stated on the sample login sheet, then please sign below and fax the form back to us within 24 hours. If PDP has not received authorization within 24 hours, then the analysis will be initiated as per the sample login sheet. However, PDP will not be held responsible for any problems that may arise without authorization. If you find discrepancies or wish to make changes, please advise us by telephone within 24 hours so that we may incorporate the changes.

With your cooperation, we will be able to process your testing more efficiently. Please coordinate with Sean Sundquist or Rick Schrynemeeckers with any changes or problems. We appreciate your help.

I authorize the work to be performed as on the PDP sample login sheet.

Signature: [signature], P.E

Title: Deputy PM

Date & Time: 4 May 00 6:00 PM

If this fax message is received poorly or incomplete, please notify us at the above number.

PDP Analytical Services

1680 Lake Front Circle, Suite B, The Woodlands TX 77380

Sample Log-In Report

Logged By: MG **Report Date:** 5/4/2000 12:25:59

Client Name: MEVATEC **Lab Project ID:** EVATEC
Client Project Name: HELSIF TSA POOL **Date Logged:** 05/04/00
Client/Project #: **Date Received:** 05/04/00
P.O. No.: 700B9 **Time Received:** 9:00
Courier/No.:

Lab Sample ID	Client Sample ID	No. Cont.	Sample Matrix	Date Sampled	Time Sampled	Chain Of Custody No.	Date Due	Remarks
6053.001	26030-SB03-(16.5-17.0)	1	SOIL	05/03/00	08:04	6053		
	Tests Required							
	- BTEX8021B/MTBE						05/18/00	
	- TPH8015A-PURGEABLES						05/18/00	
6053.002	26030-SB03-(31.5-32.0)	1	SOIL	05/03/00	08:26	6053		
	Tests Required							
	- BTEX8021B/MTBE						05/18/00	
	- TPH8015A-PURGEABLES						05/18/00	
6053.003	26030-SB04-(16.5-17.0)	1	SOIL	05/03/00	10:20	6053		
	Tests Required							
	- BTEX8021B/MTBE						05/18/00	
	- TPH8015A-PURGEABLES						05/18/00	
6053.004	26030-SB04-(31.5-32.0)	1	SOIL	05/03/00	10:40	6053		
	Tests Required							
	- BTEX8021B/MTBE						05/18/00	
	- TPH8015A-PURGEABLES						05/18/00	
6053.005	26030-SB06-(16.5-17.0)	1	SOIL	05/03/00	13:32	6053		
	Tests Required							
	- BTEX8021B/MTBE						05/18/00	
	- TPH8015A-PURGEABLES						05/18/00	
6053.006	26030-SB06-(31.5-32.0)	1	SOIL	05/03/00	13:52	6053		
	Tests Required							
	- BTEX8021B/MTBE						05/18/00	
	- TPH8015A-PURGEABLES						05/18/00	
6053.007	26030-SB05-(16.5-17.0)	1	SOIL	05/03/00	15:00	6053		
	Tests Required							
	- BTEX8021B/MTBE						05/18/00	
	- TPH8015A-PURGEABLES						05/18/00	
6053.008	26030-SB05-(31.5-32.0)	1	SOIL	05/03/00	15:25	6053		
	Tests Required							
	- BTEX8021B/MTBE						05/18/00	
	- TPH8015A-PURGEABLES						05/18/00	

SJS 5/4/00
Lab Approval

Client Approval

PDP Analytical Services
1680 Lake Front Circle, Suite B, The Woodlands TX 77380
Sample Log-In Report

Logged By: MG **Report Date:** 5/4/2000 12:26:00

Client Name: MEVATEC **Lab Project ID:** EVATEC
Client Project Name: HELSTF TSA POOL **Date Logged:** 05/04/00
ClientProject #: **Date Received:** 05/04/00
P.O. No.: 70089 **Time Received:** 9:00
Courier/No.:

Lab Sample ID	Client Sample ID	No. Cont.	Sample Matrix	Date Sampled	Time Sampled	Chain Of Custody No.	Date Due	Remarks

Instructions To Lab:
EXTRACT SAMPLES WITHIN 48 HRS OF SAMPLING!
EDD REQUIRED

Lab Approval

Client Approval

Sample Data

BTEX/MTBE

PDP Analytical Services

1680 Lake Front Circle, Suite B, The Woodlands, TX 77380

LABORATORY REPORT

BTEX & MTBE BY GC/PID

CLIENT NAME :	MEVATEC	CLIENT SAMPLE ID :	26030-SB03-(16.5-17.0) QA
PROJECT NAME :	HELSTF TSA POOL	LAB SAMPLE ID :	6053.001
PROJECT NUMBER :		METHOD REFERENCE :	SW846-8021B
DATE SAMPLED :	5/3/00	DATE RECEIVED :	5/4/00
SAMPLE MATRIX :	SOIL	PRINTED ON :	5/25/2000 14:33

% MOISTURE	: 9.573	ANALYST	: DR
DATE ANALYZED	: 05/08/00	INSTRUMENT FILE	: B00986.D
INSTRUMENT ID	: B-HP5890B	SAMPLE WEIGHT	: 5 g
TIME ANALYZED	: 11:51		

PARAMETER	QUANTITATION LIMIT	RESULTS	QUALIFIER
Benzene	5.6 UG/KG	ND UG/KG	
Ethylbenzene	5.6 UG/KG	ND UG/KG	
Methyl tert-butyl ether	5.6 UG/KG	ND UG/KG	
Toluene	5.6 UG/KG	ND UG/KG	
Xylene (total)	5.6 UG/KG	5.0 UG/KG	J

QUALITY CONTROL DATA

SURROGATE COMPOUND	SPIKE ADDED	QC RECOVERY LIMITS	%RECOVERY
a,a,a-Trifluorotoluene	55.3 UG/KG	70 - 130	90

BATCH QUALITY CONTROL SAMPLE IDs

QC BATCH ID : B28	PREP BLANK ID : BBLK28	LCS ID : BLCS28
MS ID : 6053.008MS	MSD ID : 6053.008MSD	

PDP Analytical Services

1680 Lake Front Circle, Suite B, The Woodlands, TX 77380

LABORATORY REPORT

BTEX & MTBE BY GC/PID

CLIENT NAME	: MEVATEC	CLIENT SAMPLE ID	: 26030-SB03-(31.5-32.0) QA
PROJECT NAME	: HELSTF TSA POOL	LAB SAMPLE ID	: 6053.002
PROJECT NUMBER	:	METHOD REFERENCE	: SW846-8021B
DATE SAMPLED	: 5/3/00	DATE RECEIVED	: 5/4/00
SAMPLE MATRIX	: SOIL	PRINTED ON	: 5/25/2000 14:33

% MOISTURE	: 17.73	ANALYST	: DR
DATE ANALYZED	: 05/05/00	INSTRUMENT FILE	: B00969.D
INSTRUMENT ID	: B-HP5890B	SAMPLE WEIGHT	: 5 g
TIME ANALYZED	: 20:48		

PARAMETER	QUANTITATION LIMIT	RESULTS	QUALIFIER
Benzene	6.1 UG/KG	ND UG/KG	
Ethylbenzene	6.1 UG/KG	ND UG/KG	
Methyl tert-butyl ether	6.1 UG/KG	ND UG/KG	
Toluene	6.1 UG/KG	ND UG/KG	
Xylene (total)	6.1 UG/KG	3.2 UG/KG	J

QUALITY CONTROL DATA

SURROGATE COMPOUND	SPIKE ADDED	QC RECOVERY LIMITS	%RECOVERY
a,a,a-Trifluorotoluene	60.8 UG/KG	70 - 130	75

BATCH QUALITY CONTROL SAMPLE IDs

QC BATCH ID : B28	PREP BLANK ID : BBLK28	LCS ID : BLCS28
MS ID : 6053.008MS	MSD ID : 6053.008MSD	

PDP Analytical Services

1680 Lake Front Circle, Suite B, The Woodlands, TX 77380

LABORATORY REPORT

BTEX & MTBE BY GC/PID

CLIENT NAME :	MEVATEC	CLIENT SAMPLE ID :	26030-SB04-(16.5-17.0) QA
PROJECT NAME :	HELSTF TSA POOL	LAB SAMPLE ID :	6053.003
PROJECT NUMBER :		METHOD REFERENCE :	SW846-8021B
DATE SAMPLED :	5/3/00	DATE RECEIVED :	5/4/00
SAMPLE MATRIX :	SOIL	PRINTED ON :	5/25/2000 14:33

% MOISTURE	: 5.884	ANALYST	: DR
DATE ANALYZED	: 05/05/00	INSTRUMENT FILE	: B00970.D
INSTRUMENT ID	: B-HP5890B	SAMPLE WEIGHT	: 5 g
TIME ANALYZED	: 21:15		

PARAMETER	QUANTITATION LIMIT	RESULTS	QUALIFIER
Benzene	5.3 UG/KG	16 UG/KG	
Ethylbenzene	5.3 UG/KG	2.9 UG/KG	J
Methyl tert-butyl ether	5.3 UG/KG	ND UG/KG	
Toluene	5.3 UG/KG	34 UG/KG	
Xylene (total)	5.3 UG/KG	9.4 UG/KG	

QUALITY CONTROL DATA

SURROGATE COMPOUND	SPIKE ADDED	QC RECOVERY LIMITS	%RECOVERY
a,a,a-Trifluorotoluene	53.1 UG/KG	70 - 130	78

BATCH QUALITY CONTROL SAMPLE IDs

QC BATCH ID : B28	PREP BLANK ID : BBLK28	LCS ID : BLCS28
MS ID : 6053.008MS	MSD ID : 6053.008MSD	

PDP Analytical Services

1680 Lake Front Circle, Suite B, The Woodlands, TX 77380

LABORATORY REPORT

BTEX & MTBE BY GC/PID

CLIENT NAME :	MEVATEC	CLIENT SAMPLE ID :	26030-SB04-(31.5-32.0) QA
PROJECT NAME :	HELSTF TSA POOL	LAB SAMPLE ID :	6053.004
PROJECT NUMBER :		METHOD REFERENCE :	SW846-8021B
DATE SAMPLED :	5/3/00	DATE RECEIVED :	5/4/00
SAMPLE MATRIX :	SOIL	PRINTED ON :	5/25/2000 14:27

% MOISTURE	: 12.94	ANALYST	: DR
DATE ANALYZED	: 05/08/00	INSTRUMENT FILE	: B00987.D
INSTRUMENT ID	: B-HP5890B	SAMPLE WEIGHT	: 5 g
TIME ANALYZED	: 12:18		

PARAMETER	QUANTITATION LIMIT	RESULTS	QUALIFIER
Benzene	5.7 UG/KG	ND UG/KG	
Ethylbenzene	5.7 UG/KG	ND UG/KG	
Methyl tert-butyl ether	5.7 UG/KG	ND UG/KG	
Toluene	5.7 UG/KG	ND UG/KG	
Xylene (total)	5.7 UG/KG	ND UG/KG	

QUALITY CONTROL DATA

SURROGATE COMPOUND	SPIKE ADDED	QC RECOVERY LIMITS	%RECOVERY
a,a,a-Trifluorotoluene	57.4 UG/KG	70 - 130	75

BATCH QUALITY CONTROL SAMPLE IDs

QC BATCH ID : B28	PREP BLANK ID : BBLK28	LCS ID : BLCS28
MS ID : 6053.008MS	MSD ID : 6053.008MSD	

PDP Analytical Services

1680 Lake Front Circle, Suite B, The Woodlands, TX 77380

LABORATORY REPORT

BTEX & MTBE BY GC/PID

CLIENT NAME :	MEVATEC	CLIENT SAMPLE ID :	26030-SB06-(16.5-17.0) QA
PROJECT NAME :	HELSTF TSA POOL	LAB SAMPLE ID :	6053.005
PROJECT NUMBER :		METHOD REFERENCE :	SW846-8021B
DATE SAMPLED :	5/3/00	DATE RECEIVED :	5/4/00
SAMPLE MATRIX :	SOIL	PRINTED ON :	5/25/2000 14:27

% MOISTURE	: 14.08	ANALYST	: DR
DATE ANALYZED	: 05/08/00	INSTRUMENT FILE	: B00988.D
INSTRUMENT ID	: B-HP5890B	SAMPLE WEIGHT	: 5 g
TIME ANALYZED	: 12:45		

PARAMETER	QUANTITATION LIMIT	RESULTS	QUALIFIER
Benzene	5.8 UG/KG	ND UG/KG	
Ethylbenzene	5.8 UG/KG	ND UG/KG	
Methyl tert-butyl ether	5.8 UG/KG	ND UG/KG	
Toluene	5.8 UG/KG	ND UG/KG	
Xylene (total)	5.8 UG/KG	ND UG/KG	

QUALITY CONTROL DATA

SURROGATE COMPOUND	SPIKE ADDED	QC RECOVERY LIMITS	%RECOVERY
a,a,a-Trifluorotoluene	58.2 UG/KG	70 - 130	77

BATCH QUALITY CONTROL SAMPLE IDs

QC BATCH ID : B28	PREP BLANK ID : BBLK28	LCS ID : BLCS28
MS ID : 6053.008MS	MSD ID : 6053.008MSD	

PDP Analytical Services

1680 Lake Front Circle, Suite B, The Woodlands, TX 77380

LABORATORY REPORT

BTEX & MTBE BY GC/PID

CLIENT NAME :	MEVATEC	CLIENT SAMPLE ID :	26030-SB06-(31.5-32.0) QA
PROJECT NAME :	HELSTF TSA POOL	LAB SAMPLE ID :	6053.006
PROJECT NUMBER :		METHOD REFERENCE :	SW846-8021B
DATE SAMPLED :	5/3/00	DATE RECEIVED :	5/4/00
SAMPLE MATRIX :	SOIL	PRINTED ON :	5/25/2000 14:33

% MOISTURE	: 23.3	ANALYST	: DR
DATE ANALYZED	: 05/05/00	INSTRUMENT FILE	: B00976.D
INSTRUMENT ID	: B-HP5890B	SAMPLE WEIGHT	: 5 g
TIME ANALYZED	: 23:57		

PARAMETER	QUANTITATION LIMIT	RESULTS	QUALIFIER
Benzene	6.6 UG/KG	ND UG/KG	
Ethylbenzene	6.6 UG/KG	ND UG/KG	
Methyl tert-butyl ether	6.6 UG/KG	ND UG/KG	
Toluene	6.6 UG/KG	ND UG/KG	
Xylene (total)	6.6 UG/KG	4.8 UG/KG	J

QUALITY CONTROL DATA

SURROGATE COMPOUND	SPIKE ADDED	QC RECOVERY LIMITS	%RECOVERY
a,a,a-Trifluorotoluene	65.2 UG/KG	70 - 130	72

BATCH QUALITY CONTROL SAMPLE IDs

QC BATCH ID : B28	PREP BLANK ID : BBLK28	LCS ID : BLCS28
MS ID : 6053.008MS	MSD ID : 6053.008MSD	

PDP Analytical Services

1680 Lake Front Circle, Suite B, The Woodlands, TX 77380

LABORATORY REPORT

BTEX & MTBE BY GC/PID

CLIENT NAME	: MEVATEC	CLIENT SAMPLE ID	: 26030-SB05-(16.5-17.0) QA
PROJECT NAME	: HELSTF TSA POOL	LAB SAMPLE ID	: 6053.007
PROJECT NUMBER	:	METHOD REFERENCE	: SW846-8021B
DATE SAMPLED	: 5/3/00	DATE RECEIVED	: 5/4/00
SAMPLE MATRIX	: SOIL	PRINTED ON	: 5/25/2000 14:27

% MOISTURE	: 16.63	ANALYST	: DR
DATE ANALYZED	: 05/06/00	INSTRUMENT FILE	: B00977.D
INSTRUMENT ID	: B-HP5890B	SAMPLE WEIGHT	: 5 g
TIME ANALYZED	: 00:24		

PARAMETER	QUANTITATION LIMIT	RESULTS	QUALIFIER
Benzene	6.0 UG/KG	20 UG/KG	
Ethylbenzene	6.0 UG/KG	ND UG/KG	
Methyl tert-butyl ether	6.0 UG/KG	ND UG/KG	
Toluene	6.0 UG/KG	35 UG/KG	
Xylene (total)	6.0 UG/KG	10 UG/KG	

QUALITY CONTROL DATA

SURROGATE COMPOUND	SPIKE ADDED	QC RECOVERY LIMITS	%RECOVERY
a,a,a-Trifluorotoluene	60 UG/KG	70 - 130	70

BATCH QUALITY CONTROL SAMPLE IDs

QC BATCH ID : B28	PREP BLANK ID : BBLK28	LCS ID : BLCS28
MS ID : 6053.008MS	MSD ID : 6053.008MSD	

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LABORATORY REPORT

BTEX & MTBE BY GC/PID

CLIENT NAME :	MEVATEC	CLIENT SAMPLE ID :	26030-SB05-(31.5-32.0) QA
PROJECT NAME :	HELSTF TSA POOL	LAB SAMPLE ID :	6053.008
PROJECT NUMBER :		METHOD REFERENCE :	SW846-8021B
DATE SAMPLED :	5/3/00	DATE RECEIVED :	5/4/00
SAMPLE MATRIX :	SOIL	PRINTED ON :	5/25/2000 14:27

% MOISTURE	: 23.29	ANALYST	: DR
DATE ANALYZED	: 05/08/00	INSTRUMENT FILE	: B00989.D
INSTRUMENT ID	: B-HP5890B	SAMPLE WEIGHT	: 5 g
TIME ANALYZED	: 13:12		

PARAMETER	QUANTITATION LIMIT	RESULTS	QUALIFIER
Benzene	6.6 UG/KG	ND UG/KG	
Ethylbenzene	6.6 UG/KG	ND UG/KG	
Methyl tert-butyl ether	6.6 UG/KG	ND UG/KG	
Toluene	6.6 UG/KG	ND UG/KG	
Xylene (total)	6.6 UG/KG	ND UG/KG	

QUALITY CONTROL DATA

SURROGATE COMPOUND	SPIKE ADDED	QC RECOVERY LIMITS	%RECOVERY
a,a,a-Trifluorotoluene	65.2 UG/KG	70 - 130	6

BATCH QUALITY CONTROL SAMPLE IDs

QC BATCH ID : B28	PREP BLANK ID : BBLK28	LCS ID : BLCS28
MS ID : 6053.008MS	MSD ID : 6053.008MSD	

TPH8015A-Purgeables

PDP Analytical Services

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LABORATORY REPORT

TPH PURGEABLES BY GC/FID

CLIENT NAME :	MEVATEC	CLIENT SAMPLE ID :	26030-SB03-(16.5-17.0) QA
PROJECT NAME :	HELSTF TSA POOL	LAB SAMPLE ID :	6053.001
PROJECT NUMBER :		METHOD REFERENCE :	SW846-8015A
DATE SAMPLED :	5/3/00	DATE RECEIVED :	5/4/00
SAMPLE MATRIX :	SOIL	PRINTED ON :	6/1/2000 8:24

% MOISTURE	: 9.573	ANALYST	: DR
DATE ANALYZED	: 05/10/00	INSTRUMENT FILE	: B01035.D
INSTRUMENT ID	: B-HP5890	SAMPLE WEIGHT	: 5 g
TIME ANALYZED	: 21:05		

PARAMETER	QUANTITATION LIMIT	RESULTS	QUALIFIER
Total Petroleum Hydrocarbons - Gasoline Range	280 UG/KG	220 UG/KG	J

QUALITY CONTROL DATA

SURROGATE COMPOUND	SPIKE ADDED	QC RECOVERY LIMITS	%RECOVERY
a,a,a-Trifluorotoluene	55.3 UG/KG	70 - 130	93

BATCH QUALITY CONTROL SAMPLE IDs

QC BATCH ID : G20C	PREP BLANK ID : GBLK20	LCS ID : GLCS20
MS ID : 6053.005MS	MSD ID : 6053.005MSD	

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LABORATORY REPORT

TPH PURGEABLES BY GC/FID

CLIENT NAME :	MEVATEC	CLIENT SAMPLE ID :	26030-SB03-(31.5-32.0) QA
PROJECT NAME :	HELSTF TSA POOL	LAB SAMPLE ID :	6053.002
PROJECT NUMBER :		METHOD REFERENCE :	SW846-8015A
DATE SAMPLED :	5/3/00	DATE RECEIVED :	5/4/00
SAMPLE MATRIX :	SOIL	PRINTED ON :	6/1/2000 8:24

% MOISTURE	: 17.73	ANALYST	: DR
DATE ANALYZED	: 05/10/00	INSTRUMENT FILE	: B01036.D
INSTRUMENT ID	: B-HP5890	SAMPLE WEIGHT	: 5 g
TIME ANALYZED	: 21:32		

PARAMETER	QUANTITATION LIMIT		RESULTS		QUALIFIER
Total Petroleum Hydrocarbons - Gasoline Range	300	UG/KG	56	UG/KG	J

QUALITY CONTROL DATA

SURROGATE COMPOUND	SPIKE ADDED	QC RECOVERY LIMITS	%RECOVERY
a,a,a-Trifluorotoluene	60.8 UG/KG	70 - 130	96

BATCH QUALITY CONTROL SAMPLE IDs

QC BATCH ID : G20C	PREP BLANK ID : GBLK20	LCS ID : GLCS20
MS ID : 6053.005MS	MSD ID : 6053.005MSD	

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LABORATORY REPORT

TPH PURGEABLES BY GC/FID

CLIENT NAME :	MEVATEC	CLIENT SAMPLE ID :	26030-SB04-(16.5-17.0) QA
PROJECT NAME :	HELSTF TSA POOL	LAB SAMPLE ID :	6053.003
PROJECT NUMBER :		METHOD REFERENCE :	SW846-8015A
DATE SAMPLED :	5/3/00	DATE RECEIVED :	5/4/00
SAMPLE MATRIX :	SOIL	PRINTED ON :	6/1/2000 8:24

% MOISTURE	: 5.884	ANALYST	: DR
DATE ANALYZED	: 05/10/00	INSTRUMENT FILE	: B01040.D
INSTRUMENT ID	: B-HP5890	SAMPLE WEIGHT	: 5 g
TIME ANALYZED	: 23:20		

PARAMETER	QUANTITATION LIMIT	RESULTS	QUALIFIER
Total Petroleum Hydrocarbons - Gasoline Range	270 UG/KG	100 UG/KG	J

QUALITY CONTROL DATA

SURROGATE COMPOUND	SPIKE ADDED	QC RECOVERY LIMITS	%RECOVERY
a,a,a-Trifluorotoluene	53.1 UG/KG	70 - 130	88

BATCH QUALITY CONTROL SAMPLE IDs

QC BATCH ID : G21A	PREP BLANK ID : GBLK21	LCS ID : GLCS21
MS ID : 6053.005MS	MSD ID : 6053.005MSD	

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LABORATORY REPORT

TPH PURGEABLES BY GC/FID

CLIENT NAME :	MEVATEC	CLIENT SAMPLE ID :	26030-SB04-(31.5-32.0) QA
PROJECT NAME :	HELSTF TSA POOL	LAB SAMPLE ID :	6053.004
PROJECT NUMBER :		METHOD REFERENCE :	SW846-8015A
DATE SAMPLED :	5/3/00	DATE RECEIVED :	5/4/00
SAMPLE MATRIX :	SOIL	PRINTED ON :	6/1/2000 8:24

% MOISTURE	: 12.94	ANALYST	: DR
DATE ANALYZED	: 05/10/00	INSTRUMENT FILE	: B01041.D
INSTRUMENT ID	: B-HP5890	SAMPLE WEIGHT	: 5 g
TIME ANALYZED	: 23:47		

PARAMETER	QUANTITATION LIMIT	RESULTS	QUALIFIER
Total Petroleum Hydrocarbons - Gasoline Range	290 UG/KG	40 UG/KG	J

QUALITY CONTROL DATA

SURROGATE COMPOUND	SPIKE ADDED	QC RECOVERY LIMITS	%RECOVERY
a,a,a-Trifluorotoluene	57.4 UG/KG	70 - 130	82

BATCH QUALITY CONTROL SAMPLE IDs

QC BATCH ID : G21A	PREP BLANK ID : GBLK21	LCS ID : GLCS21
MS ID : 6053.005MS	MSD ID : 6053.005MSD	

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LABORATORY REPORT

TPH PURGEABLES BY GC/FID

CLIENT NAME :	MEVATEC	CLIENT SAMPLE ID :	26030-SB06-(16.5-17.0) QA
PROJECT NAME :	HELSTF TSA POOL	LAB SAMPLE ID :	6053.005
PROJECT NUMBER :		METHOD REFERENCE :	SW846-8015A
DATE SAMPLED :	5/3/00	DATE RECEIVED :	5/4/00
SAMPLE MATRIX :	SOIL	PRINTED ON :	6/1/2000 8:24

% MOISTURE	: 14.08	ANALYST	: DR
DATE ANALYZED	: 05/11/00	INSTRUMENT FILE	: B01042.D
INSTRUMENT ID	: B-HP5890	SAMPLE WEIGHT	: 5 g
TIME ANALYZED	: 00:14		

PARAMETER	QUANTITATION LIMIT		RESULTS		QUALIFIER
Total Petroleum Hydrocarbons - Gasoline Range	290	UG/KG	51	UG/KG	J

QUALITY CONTROL DATA

SURROGATE COMPOUND	SPIKE ADDED	QC RECOVERY LIMITS	%RECOVERY
a,a,a-Trifluorotoluene	58.2 UG/KG	70 - 130	87

BATCH QUALITY CONTROL SAMPLE IDs

QC BATCH ID : G21A	PREP BLANK ID : GBLK21	LCS ID : GLCS21
MS ID : 6053.005MS	MSD ID : 6053.005MSD	

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LABORATORY REPORT

TPH PURGEABLES BY GC/FID

CLIENT NAME :	MEVATEC	CLIENT SAMPLE ID :	26030-SB06-(31.5-32.0) QA
PROJECT NAME :	HELSTF TSA POOL	LAB SAMPLE ID :	6053.006
PROJECT NUMBER :		METHOD REFERENCE :	SW846-8015A
DATE SAMPLED :	5/3/00	DATE RECEIVED :	5/4/00
SAMPLE MATRIX :	SOIL	PRINTED ON :	6/1/2000 8:24

% MOISTURE	: 23.3	ANALYST	: DR
DATE ANALYZED	: 05/11/00	INSTRUMENT FILE	: B01045.D
INSTRUMENT ID	: B-HP5890	SAMPLE WEIGHT	: 5 g
TIME ANALYZED	: 01:35		

PARAMETER	QUANTITATION LIMIT		RESULTS		QUALIFIER
Total Petroleum Hydrocarbons - Gasoline Range	330	UG/KG	57	UG/KG	J

QUALITY CONTROL DATA

SURROGATE COMPOUND	SPIKE ADDED	QC RECOVERY LIMITS	%RECOVERY
a,a,a-Trifluorotoluene	65.2 UG/KG	70 - 130	76

BATCH QUALITY CONTROL SAMPLE IDs

QC BATCH ID : G21A	PREP BLANK ID : GBLK21	LCS ID : GLCS21
MS ID : 6053.005MS	MSD ID : 6053.005MSD	

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LABORATORY REPORT

TPH PURGEABLES BY GC/FID

CLIENT NAME	: MEVATEC	CLIENT SAMPLE ID	: 26030-SB05-(16.5-17.0) QA
PROJECT NAME	: HELSTF TSA POOL	LAB SAMPLE ID	: 6053.007
PROJECT NUMBER	:	METHOD REFERENCE	: SW846-8015A
DATE SAMPLED	: 5/3/00	DATE RECEIVED	: 5/4/00
SAMPLE MATRIX	: SOIL	PRINTED ON	: 6/1/2000 8:24

% MOISTURE	: 16.63	ANALYST	: DR
DATE ANALYZED	: 05/15/00	INSTRUMENT FILE	: B01095.D
INSTRUMENT ID	: B-HP5890	SAMPLE WEIGHT	: 5 g
TIME ANALYZED	: 13:34		

PARAMETER	QUANTITATION LIMIT	RESULTS	QUALIFIER
Total Petroleum Hydrocarbons - Gasoline Range	300 UG/KG	ND UG/KG	

QUALITY CONTROL DATA

SURROGATE COMPOUND	SPIKE ADDED	QC RECOVERY LIMITS	%RECOVERY
a,a,a-Trifluorotoluene	60 UG/KG	70 - 130	55

BATCH QUALITY CONTROL SAMPLE IDs

QC BATCH ID : G25	PREP BLANK ID : GBLK25	LCS ID : GLCS23
MS ID : 6060.006MS	MSD ID : 6060.006MSD	

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LABORATORY REPORT

TPH PURGEABLES BY GC/FID

CLIENT NAME :	MEVATEC	CLIENT SAMPLE ID :	26030-SB05-(31.5-32.0) QA
PROJECT NAME :	HELSTF TSA POOL	LAB SAMPLE ID :	6053.008
PROJECT NUMBER :		METHOD REFERENCE :	SW846-8015A
DATE SAMPLED :	5/3/00	DATE RECEIVED :	5/4/00
SAMPLE MATRIX :	SOIL	PRINTED ON :	6/1/2000 8:24

% MOISTURE	: 23.29	ANALYST	: DR
DATE ANALYZED	: 05/11/00	INSTRUMENT FILE	: B01047.D
INSTRUMENT ID	: B-HP5890	SAMPLE WEIGHT	: 5 g
TIME ANALYZED	: 02:29		

PARAMETER	QUANTITATION LIMIT		RESULTS		QUALIFIER
Total Petroleum Hydrocarbons - Gasoline Range	330	UG/KG	64	UG/KG	J

QUALITY CONTROL DATA

SURROGATE COMPOUND	SPIKE ADDED	QC RECOVERY LIMITS	%RECOVERY
a,a,a-Trifluorotoluene	65.2 UG/KG	70 - 130	81

BATCH QUALITY CONTROL SAMPLE IDs

QC BATCH ID : G21A	PREP BLANK ID : GBLK21	LCS ID : GLCS21
MS ID : 6053.005MS	MSD ID : 6053.005MSD	

Quality Control Data

BTEX/MTBE

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LABORATORY REPORT

BTEX & MTBE BY GC/PID

CLIENT NAME :		CLIENT SAMPLE ID :	Prep Blank
PROJECT NAME :		LAB SAMPLE ID :	BBLK28
PROJECT NUMBER :		METHOD REFERENCE :	SW846-8021B
DATE SAMPLED :		DATE RECEIVED :	
SAMPLE MATRIX :	SOLID	PRINTED ON :	5/25/2000 14:27

% MOISTURE	:	ANALYST	: DR
DATE ANALYZED	: 05/05/00	INSTRUMENT FILE	: B00973.D
INSTRUMENT ID	: B-HP5890B	SAMPLE WEIGHT	: 5 g
TIME ANALYZED	: 22:36		

PARAMETER	QUANTITATION LIMIT	RESULTS	QUALIFIER
Benzene	5.0 UG/KG	ND UG/KG	
Ethylbenzene	5.0 UG/KG	ND UG/KG	
Methyl tert-butyl ether	5.0 UG/KG	ND UG/KG	
Toluene	5.0 UG/KG	ND UG/KG	
Xylene (total)	5.0 UG/KG	ND UG/KG	

QUALITY CONTROL DATA

SURROGATE COMPOUND	SPIKE ADDED	QC RECOVERY LIMITS	%RECOVERY
a,a,a-Trifluorotoluene	50 UG/KG	70 - 130	85

BATCH QUALITY CONTROL SAMPLE IDs

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LABORATORY REPORT

BTEX & MTBE BY GC/PID

CLIENT NAME	:	CLIENT SAMPLE ID	: Lab Control Sample
PROJECT NAME	:	LAB SAMPLE ID	: BLCS28
PROJECT NUMBER	:	METHOD REFERENCE	: SW846-8021B
DATE SAMPLED	:	DATE RECEIVED	:
SAMPLE MATRIX	: SOLID	PRINTED ON	: 5/25/2000 14:27

% MOISTURE	:	ANALYST	: DR
DATE ANALYZED	: 05/05/00	INSTRUMENT FILE	: B00974.D
INSTRUMENT ID	: B-HP5890B	SAMPLE WEIGHT	: 5 g
TIME ANALYZED	: 23:03		

PARAMETER	QUANTITATION LIMIT	RESULTS	QUALIFIER
Benzene	5.0 UG/KG	48 UG/KG	
Ethylbenzene	5.0 UG/KG	45 UG/KG	
Methyl tert-butyl ether	5.0 UG/KG	52 UG/KG	
Toluene	5.0 UG/KG	44 UG/KG	
Xylene (total)	5.0 UG/KG	130 UG/KG	

QUALITY CONTROL DATA

SURROGATE COMPOUND	SPIKE ADDED	QC RECOVERY LIMITS	%RECOVERY
a,a,a-Trifluorotoluene	50 UG/KG	70 - 130	97

BATCH QUALITY CONTROL SAMPLE IDs

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LCS/LCSD SUMMARY REPORT

BTEX & MTBE BY GC/PID

CLIENT NAME :
PROJECT NAME :
PROJECT NUMBER :

DATE RECEIVED :
PRINTED ON : 5/25/2000 14:27

SAMPLE MATRIX : SOLID

METHOD REFERENCE : SW846-8021B

LAB CONTROL SAMPLE

LCS SAMPLE ID : BLCS28
CLIENT SAMPLE ID :
DATE ANALYZED : 05/05/00
INSTRUMENT FILE : B00974.D

LAB CONTROL SAMPLE DUPLICATE

LCSD SAMPLE ID :
CLIENT SAMPLE ID :
DATE ANALYZED :
INSTRUMENT FILE :

PARAMETER	UNIT	LCS TRUE VALUE	LCSD TRUE VALUE	LCS FOUND VALUE	LCSD FOUN VALUE	LCS RECOVER (%)	LCSD RECOVERY (%)	RPD	RPD LIMIT	QC LIMIT REC.
Benzene	UG/KG	50.0		48.4		97			30	70 - 130
Ethylbenzene	UG/KG	50.0		44.9		90			30	70 - 130
Methyl tert-butyl ether	UG/KG	50		52		104			30	70 - 130
Toluene	UG/KG	50.0		44.3		89			30	70 - 130
Xylene (total)	UG/KG	150		131		87			30	70 - 130

* Indicate values outside of QC limits

RPD : 0 out of 0 outside limits
Spike Recovery : 0 out of 5 outside limits

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LABORATORY REPORT

BTEX & MTBE BY GC/PID

CLIENT NAME	: MEVATEC	CLIENT SAMPLE ID	: 26030-SB05-(31.5-32.0) QAMS1
PROJECT NAME	: HELSTF TSA POOL	LAB SAMPLE ID	: 6053.008MS
PROJECT NUMBER	:	METHOD REFERENCE	: SW846-8021B
DATE SAMPLED	: 5/3/00	DATE RECEIVED	: 5/4/00
SAMPLE MATRIX	: SOIL	PRINTED ON	: 5/25/2000 14:27

% MOISTURE	: 23.29	ANALYST	: DR
DATE ANALYZED	: 05/06/00	INSTRUMENT FILE	: B00979.D
INSTRUMENT ID	: B-HP5890B	SAMPLE WEIGHT	: 5 g
TIME ANALYZED	: 01:19		

PARAMETER	QUANTITATION LIMIT	RESULTS	QUALIFIER
Benzene	6.6 UG/KG	38 UG/KG	
Ethylbenzene	6.6 UG/KG	15 UG/KG	
Methyl tert-butyl ether	6.6 UG/KG	51 UG/KG	
Toluene	6.6 UG/KG	24 UG/KG	
Xylene (total)	6.6 UG/KG	51 UG/KG	

QUALITY CONTROL DATA

SURROGATE COMPOUND	SPIKE ADDED	QC RECOVERY LIMITS	%RECOVERY
a,a,a-Trifluorotoluene	65.2 UG/KG	70 - 130	52

BATCH QUALITY CONTROL SAMPLE IDs

QC BATCH ID : B28 PREP BLANK ID : BBLK28 LCS ID : BLCS28

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LABORATORY REPORT

BTEX & MTBE BY GC/PID

CLIENT NAME :	MEVATEC	CLIENT SAMPLE ID :	26030-SB05-(31.5-32.0) QAMSD1
PROJECT NAME :	HELSTF TSA POOL	LAB SAMPLE ID :	6053.008MSD
PROJECT NUMBER :		METHOD REFERENCE :	SW846-8021B
DATE SAMPLED :	5/3/00	DATE RECEIVED :	5/4/00
SAMPLE MATRIX :	SOIL	PRINTED ON :	5/25/2000 14:27

% MOISTURE	: 23.29	ANALYST	: DR
DATE ANALYZED	: 05/06/00	INSTRUMENT FILE	: B00980.D
INSTRUMENT ID	: B-HP5890B	SAMPLE WEIGHT	: 5 g
TIME ANALYZED	: 01:46		

PARAMETER	QUANTITATION LIMIT	RESULTS	QUALIFIER
Benzene	6.6 UG/KG	14 UG/KG	
Ethylbenzene	6.6 UG/KG	6.5 UG/KG	
Methyl tert-butyl ether	6.6 UG/KG	22 UG/KG	
Toluene	6.6 UG/KG	9.2 UG/KG	
Xylene (total)	6.6 UG/KG	16 UG/KG	

QUALITY CONTROL DATA

SURROGATE COMPOUND	SPIKE ADDED	QC RECOVERY LIMITS	%RECOVERY
a,a,a-Trifluorotoluene	65.2 UG/KG	70 - 130	

BATCH QUALITY CONTROL SAMPLE IDs

QC BATCH ID : B28 PREP BLANK ID : BBLK28 LCS ID : BLCS28

MS ID : 6053.008MS

PDP Analytical Services

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MS/MSD SUMMARY REPORT

BTEX & MTBE BY GC/PID

CLIENT NAME : MEVATEC
PROJECT NAME : HELSTF TSA POOL
PROJECT NUMBER :

DATE RECEIVED : 5/4/00
PRINTED ON : 5/25/2000 14:27

SAMPLE MATRIX : SOIL

METHOD REFERENCE : SW846-8021B

SAMPLE		MATRIX SPIKE		MATRIX SPIKE DUPLICATE	
SAMPLE ID	: 6053.008	MS SAMPLE ID	: 6053.008MS	MSD SAMPLE ID	: 6053.008MSD
CLIENT SAMPLE ID	: 26030-SB05-(31.5-32	CLIENT SAMPLE ID	: 26030-SB05-(31.5-32	CLIENT SAMPLE ID	: 26030-SB05-(31.5-32
DATE ANALYZED	: 05/08/00	DATE ANALYZED	: 05/06/00	DATE ANALYZED	: 05/06/00
INSTRUMENT FILE	: B00989.D	INSTRUMENT FILE	: B00979.D	INSTRUMENT FILE	: B00980.D

PARAMETER	UNITS	MS SPIKE ADDED	MSD SPIKE ADDED	SAMPL CONC.	MS CONC.	MSD CONC.	MS RECOVERY (%)	MSD RECOVERY (%)	RPD	RPD LIMIT	QC LIMIT REC.
Benzene	UG/KG	65.2	65.2	0	38.1	13.6	58 *	21 *	93.7 *	30	70 - 130
Ethylbenzene	UG/KG	65.2	65.2	0	15.2	6.49	23 *	10 *	78.8 *	30	70 - 130
Methyl tert-butyl ether	UG/KG	65	65	0	51	22	78	34 *	78.6 *	30	70 - 130
Toluene	UG/KG	65.2	65.2	0	23.6	9.20	36 *	14 *	88.0 *	30	70 - 130
Xylene (total)	UG/KG	196	196	0	51.0	15.6	26 *	8 *	105.9 *	30	70 - 130

* Indicate values outside of QC limits

RPD : 5 out of 5 outside limits
Spike Recovery : 9 out of 10 outside limits

TPH8015A-Purgeables

PDP Analytical Services

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LABORATORY REPORT

TPH PURGEABLES BY GC/FID

CLIENT NAME	:	CLIENT SAMPLE ID	: Prep Blank
PROJECT NAME	:	LAB SAMPLE ID	: GBLK20
PROJECT NUMBER	:	METHOD REFERENCE	: SW846-8015A
DATE SAMPLED	:	DATE RECEIVED	:
SAMPLE MATRIX	: SOLID	PRINTED ON	: 6/1/2000 8:24

% MOISTURE	:	ANALYST	: DR
DATE ANALYZED	: 05/10/00	INSTRUMENT FILE	: B01016.D
INSTRUMENT ID	: B-HP5890A	SAMPLE WEIGHT	: 5 g
TIME ANALYZED	: 11:38		

PARAMETER	QUANTITATION LIMIT	RESULTS	QUALIFIER
Total Petroleum Hydrocarbons - Gasoline Range	250 UG/KG	ND UG/KG	

QUALITY CONTROL DATA

SURROGATE COMPOUND	SPIKE ADDED	QC RECOVERY LIMITS	%RECOVERY
a,a,a-Trifluorotoluene	50 UG/KG	70 - 130	110

BATCH QUALITY CONTROL SAMPLE IDs

QC BATCH ID : G20B PREP BLANK ID : GBLK20

PDP Analytical Services

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LABORATORY REPORT

TPH PURGEABLES BY GC/FID

CLIENT NAME	:	CLIENT SAMPLE ID	: Prep Blank
PROJECT NAME	:	LAB SAMPLE ID	: GBLK21
PROJECT NUMBER	:	METHOD REFERENCE	: SW846-8015A
DATE SAMPLED	:	DATE RECEIVED	:
SAMPLE MATRIX	: SOLID	PRINTED ON	: 6/1/2000 8:25

% MOISTURE	:	ANALYST	: DR
DATE ANALYZED	: 05/10/00	INSTRUMENT FILE	: B01038.D
INSTRUMENT ID	: B-HP5890A	SAMPLE WEIGHT	: 5 g
TIME ANALYZED	: 22:26		

PARAMETER	QUANTITATION LIMIT	RESULTS	QUALIFIER
Total Petroleum Hydrocarbons - Gasoline Range	250 UG/KG	ND UG/KG	

QUALITY CONTROL DATA

SURROGATE COMPOUND	SPIKE ADDED	QC RECOVERY LIMITS	%RECOVERY
a,a,a-Trifluorotoluene	50 UG/KG	70 - 130	103

BATCH QUALITY CONTROL SAMPLE IDs

QC BATCH ID : G21 PREP BLANK ID : GBLK21

PDP Analytical Services

1680 Lake Front Circle, Suite B, The Woodlands, TX 77380

LABORATORY REPORT

TPH PURGEABLES BY GC/FID

CLIENT NAME :		CLIENT SAMPLE ID :	Prep Blank
PROJECT NAME :		LAB SAMPLE ID :	GBLK24
PROJECT NUMBER :		METHOD REFERENCE :	SW846-8015A
DATE SAMPLED :		DATE RECEIVED :	
SAMPLE MATRIX :	SOLID	PRINTED ON :	6/1/2000 8:25

% MOISTURE	:	ANALYST	: DR
DATE ANALYZED	: 05/12/00	INSTRUMENT FILE	: B01072.D
INSTRUMENT ID	: B-HP5890	SAMPLE WEIGHT	: 5 g
TIME ANALYZED	: 20:58		

PARAMETER	QUANTITATION LIMIT	RESULTS	QUALIFIER
Total Petroleum Hydrocarbons - Gasoline Range	250 UG/KG	ND UG/KG	

QUALITY CONTROL DATA

SURROGATE COMPOUND	SPIKE ADDED	QC RECOVERY LIMITS	%RECOVERY
a,a,a-Trifluorotoluene	50 UG/KG	70 - 130	71

BATCH QUALITY CONTROL SAMPLE IDs

QC BATCH ID : G24 PREP BLANK ID : GBLK24

PDP Analytical Services

1680 Lake Front Circle, Suite B, The Woodlands, TX 77380

LABORATORY REPORT

TPH PURGEABLES BY GC/FID

CLIENT NAME :		CLIENT SAMPLE ID :	Prep Blank
PROJECT NAME :		LAB SAMPLE ID :	GBLK25
PROJECT NUMBER :		METHOD REFERENCE :	SW846-8015A
DATE SAMPLED :		DATE RECEIVED :	
SAMPLE MATRIX :	SOLID	PRINTED ON :	6/1/2000 8:25

% MOISTURE :		ANALYST	: DR
DATE ANALYZED	: 05/15/00	INSTRUMENT FILE	: B01093.D
INSTRUMENT ID	: B-HP5890	SAMPLE WEIGHT	: 5 g
TIME ANALYZED	: 10:51		

PARAMETER	QUANTITATION LIMIT	RESULTS	QUALIFIER
Total Petroleum Hydrocarbons - Gasoline Range	250 UG/KG	ND UG/KG	

QUALITY CONTROL DATA

SURROGATE COMPOUND	SPIKE ADDED	QC RECOVERY LIMITS	%RECOVERY
a,a,a-Trifluorotoluene	50 UG/KG	70 - 130	73

BATCH QUALITY CONTROL SAMPLE IDs

QC BATCH ID : G25 PREP BLANK ID : GBLK25

PDP Analytical Services

1680 Lake Front Circle, Suite B, The Woodlands, TX 77380

LABORATORY REPORT

TPH PURGEABLES BY GC/FID

CLIENT NAME	:	CLIENT SAMPLE ID	: Lab Control Sample
PROJECT NAME	:	LAB SAMPLE ID	: GLCS20
PROJECT NUMBER	:	METHOD REFERENCE	: SW846-8015A
DATE SAMPLED	:	DATE RECEIVED	:
SAMPLE MATRIX	: SOLID	PRINTED ON	: 6/1/2000 8:25

% MOISTURE	:	ANALYST	: DR
DATE ANALYZED	: 05/10/00	INSTRUMENT FILE	: B01017.D
INSTRUMENT ID	: B-HP5890A	SAMPLE WEIGHT	: 5 g
TIME ANALYZED	: 12:05		

PARAMETER	QUANTITATION LIMIT	RESULTS	QUALIFIER
Total Petroleum Hydrocarbons - Gasoline Range	250 UG/KG	805 UG/KG	

QUALITY CONTROL DATA

SURROGATE COMPOUND	SPIKE ADDED	QC RECOVERY LIMITS	%RECOVERY
a,a,a-Trifluorotoluene	50 UG/KG	70 - 130	106

BATCH QUALITY CONTROL SAMPLE IDs

QC BATCH ID : G20B PREP BLANK ID : GBLK20

PDP Analytical Services

1680 Lake Front Circle, Suite B, The Woodlands, TX 77380

LCS/LCSD SUMMARY REPORT

TPH PURGEABLES BY GC/FID

CLIENT NAME :
PROJECT NAME :
PROJECT NUMBER :

DATE RECEIVED :
PRINTED ON :6/1/2000 8:26

SAMPLE MATRIX :SOLID

METHOD REFERENCE :SW846-8015A

LAB CONTROL SAMPLE

LCS SAMPLE ID :GLCS20
CLIENT SAMPLE ID :
DATE ANALYZED :05/10/00
INSTRUMENT FILE :B01017.D

LAB CONTROL SAMPLE DUPLICATE

LCSD SAMPLE ID :
CLIENT SAMPLE ID :
DATE ANALYZED :
INSTRUMENT FILE :

PARAMETER	UNIT	LCS TRUE VALUE	LCSD TRUE VALUE	LCS FOUND VALUE	LCSD FOUN VALUE	LCS RECOVER (%)	LCSD RECOVERY (%)	RPD	RPD LIMIT	QC LIMIT REC.
Total Petroleum Hydrocarbons - G	UG/KG	750		805		107			30	70 - 130

* Indicate values outside of QC limits

RPD : 0 out of 0 outside limits
Spike Recovery : 0 out of 1 outside limits

PDP Analytical Services

1680 Lake Front Circle, Suite B, The Woodlands, TX 77380

LABORATORY REPORT

TPH PURGEABLES BY GC/FID

CLIENT NAME :		CLIENT SAMPLE ID :	Lab Control Sample
PROJECT NAME :		LAB SAMPLE ID :	GLCS21
PROJECT NUMBER :		METHOD REFERENCE :	SW846-8015A
DATE SAMPLED :		DATE RECEIVED :	
SAMPLE MATRIX :	SOLID	PRINTED ON :	6/1/2000 8:25

% MOISTURE	:	ANALYST	: DR
DATE ANALYZED	: 05/10/00	INSTRUMENT FILE	: B01039.D
INSTRUMENT ID	: B-HP5890A	SAMPLE WEIGHT	: 5 g
TIME ANALYZED	: 22:53		

PARAMETER	QUANTITATION LIMIT	RESULTS	QUALIFIER
Total Petroleum Hydrocarbons - Gasoline Range	250 UG/KG	697 UG/KG	

QUALITY CONTROL DATA

SURROGATE COMPOUND	SPIKE ADDED	QC RECOVERY LIMITS	%RECOVERY
a,a,a-Trifluorotoluene	50 UG/KG	70 - 130	103

BATCH QUALITY CONTROL SAMPLE IDs

QC BATCH ID : G21 PREP BLANK ID : GBLK21

PDP Analytical Services

1680 Lake Front Circle, Suite B, The Woodlands, TX 77380

LCS/LCSD SUMMARY REPORT

TPH PURGEABLES BY GC/FID

CLIENT NAME :
PROJECT NAME :
PROJECT NUMBER :

DATE RECEIVED :
PRINTED ON :6/1/2000 8:26

SAMPLE MATRIX :SOLID

METHOD REFERENCE :SW846-8015A

LAB CONTROL SAMPLE

LCS SAMPLE ID :GLCS21
CLIENT SAMPLE ID :
DATE ANALYZED :05/10/00
INSTRUMENT FILE :B01039.D

LAB CONTROL SAMPLE DUPLICATE

LCSD SAMPLE ID :
CLIENT SAMPLE ID :
DATE ANALYZED :
INSTRUMENT FILE :

PARAMETER	UNIT	LCS TRUE VALUE	LCSD TRUE VALUE	LCS FOUND VALUE	LCSD FOUN VALUE	LCS RECOVER (%)	LCSD RECOVERY (%)	RPD	RPD LIMIT	QC LIMIT REC.
Total Petroleum Hydrocarbons - G	UG/KG	750		697		93			30	70 - 130

* Indicate values outside of QC limits

RPD : 0 out of 0 outside limits
Spike Recovery : 0 out of 1 outside limits

PDP Analytical Services

1680 Lake Front Circle, Suite B, The Woodlands, TX 77380

LABORATORY REPORT

TPH PURGEABLES BY GC/FID

CLIENT NAME	:	CLIENT SAMPLE ID	: Lab Control Sample
PROJECT NAME	:	LAB SAMPLE ID	: GLCS22
PROJECT NUMBER	:	METHOD REFERENCE	: SW846-8015A
DATE SAMPLED	:	DATE RECEIVED	:
SAMPLE MATRIX	: SOLID	PRINTED ON	: 6/1/2000 8:25

% MOISTURE	:	ANALYST	: DR
DATE ANALYZED	: 05/12/00	INSTRUMENT FILE	: B01074.D
INSTRUMENT ID	: B-HP5890	SAMPLE WEIGHT	: 5 g
TIME ANALYZED	: 21:53		

PARAMETER	QUANTITATION LIMIT	RESULTS	QUALIFIER
Total Petroleum Hydrocarbons - Gasoline Range	250 UG/KG	550 UG/KG	

QUALITY CONTROL DATA

SURROGATE COMPOUND	SPIKE ADDED	QC RECOVERY LIMITS	%RECOVERY
a,a,a-Trifluorotoluene	50 UG/KG	70 - 130	91

BATCH QUALITY CONTROL SAMPLE IDs

QC BATCH ID : G24 PREP BLANK ID : GBLK24

PDP Analytical Services

1680 Lake Front Circle, Suite B, The Woodlands, TX 77380

LCS/LCSD SUMMARY REPORT

TPH PURGEABLES BY GC/FID

CLIENT NAME :
PROJECT NAME :
PROJECT NUMBER :

DATE RECEIVED :
PRINTED ON :6/1/2000 8:26

SAMPLE MATRIX :SOLID

METHOD REFERENCE :SW846-8015A

LAB CONTROL SAMPLE

LCS SAMPLE ID :GLCS22
CLIENT SAMPLE ID :
DATE ANALYZED :05/12/00
INSTRUMENT FILE :B01074.D

LAB CONTROL SAMPLE DUPLICATE

LCSD SAMPLE ID :
CLIENT SAMPLE ID :
DATE ANALYZED :
INSTRUMENT FILE :

PARAMETER	UNIT	LCS TRUE VALUE	LCSD TRUE VALUE	LCS FOUND VALUE	LCSD FOUN VALUE	LCS RECOVER (%)	LCSD RECOVERY (%)	RPD	RPD LIMIT	QC LIMIT REC.
Total Petroleum Hydrocarbons - G	UG/KG	750		545		73			30	70 - 130

* Indicate values outside of QC limits

RPD : 0 out of 0 outside limits
Spike Recovery : 0 out of 1 outside limits

PDP Analytical Services

1680 Lake Front Circle, Suite B, The Woodlands, TX 77380

LABORATORY REPORT

TPH PURGEABLES BY GC/FID

CLIENT NAME	:	CLIENT SAMPLE ID	: Lab Control Sample
PROJECT NAME	:	LAB SAMPLE ID	: GLCS23
PROJECT NUMBER	:	METHOD REFERENCE	: SW846-8015A
DATE SAMPLED	:	DATE RECEIVED	:
SAMPLE MATRIX	: SOLID	PRINTED ON	: 6/1/2000 8:25

% MOISTURE	:	ANALYST	: DR
DATE ANALYZED	: 05/15/00	INSTRUMENT FILE	: B01094.D
INSTRUMENT ID	: B-HP5890	SAMPLE WEIGHT	: 5 g
TIME ANALYZED	: 11:40		

PARAMETER	QUANTITATION LIMIT	RESULTS	QUALIFIER
Total Petroleum Hydrocarbons - Gasoline Range	250 UG/KG	730 UG/KG	

QUALITY CONTROL DATA

SURROGATE COMPOUND	SPIKE ADDED	QC RECOVERY LIMITS	%RECOVERY
a,a,a-Trifluorotoluene	50 UG/KG	70 - 130	99

BATCH QUALITY CONTROL SAMPLE IDs

QC BATCH ID : G25 PREP BLANK ID : GBLK25

PDP Analytical Services
1680 Lake Front Circle, Suite B, The Woodlands, TX 77380

LCS/LCSD SUMMARY REPORT

TPH PURGEABLES BY GC/FID

CLIENT NAME :
PROJECT NAME :
PROJECT NUMBER :

DATE RECEIVED :
PRINTED ON :6/1/2000 8:26

SAMPLE MATRIX :SOLID

METHOD REFERENCE : SW846-8015A

LAB CONTROL SAMPLE

LCS SAMPLE ID :GLCS23
CLIENT SAMPLE ID :
DATE ANALYZED :05/15/00
INSTRUMENT FILE :B01094.D

LAB CONTROL SAMPLE DUPLICATE

LCSD SAMPLE ID :
CLIENT SAMPLE ID :
DATE ANALYZED :
INSTRUMENT FILE :

PARAMETER	UNIT	LCS TRUE VALUE	LCSD TRUE VALUE	LCS FOUND VALUE	LCSD FOUN VALUE	LCS RECOVER (%)	LCSD RECOVERY (%)	RPD	RPD LIMIT	QC LIMIT REC.
Total Petroleum Hydrocarbons - G	UG/KG	750		732		98			30	70 - 130

* Indicate values outside of QC limits

RPD : 0 out of 0 outside limits
Spike Recovery : 0 out of 1 outside limits

PDP Analytical Services

1680 Lake Front Circle, Suite B, The Woodlands, TX 77380

LABORATORY REPORT

TPH PURGEABLES BY GC/FID

CLIENT NAME :	MEVATEC	CLIENT SAMPLE ID :	26030-SB06-(16.5-17.0) QAMS1
PROJECT NAME :	HELSTF TSA POOL	LAB SAMPLE ID :	6053.005MS
PROJECT NUMBER :		METHOD REFERENCE :	SW846-8015A
DATE SAMPLED :	5/3/00	DATE RECEIVED :	5/4/00
SAMPLE MATRIX :	SOIL	PRINTED ON :	6/1/2000 8:26

% MOISTURE	: 14.08	ANALYST	: DR
DATE ANALYZED	: 05/12/00	INSTRUMENT FILE	: B01077.D
INSTRUMENT ID	: B-HP5890	SAMPLE WEIGHT	: 5 g
TIME ANALYZED	: 23:14		

PARAMETER	QUANTITATION LIMIT	RESULTS	QUALIFIER
Total Petroleum Hydrocarbons - Gasoline Range	290 UG/KG	610 UG/KG	

QUALITY CONTROL DATA

SURROGATE COMPOUND	SPIKE ADDED	QC RECOVERY LIMITS	%RECOVERY
a,a,a-Trifluorotoluene	58.2 UG/KG	70 - 130	85

BATCH QUALITY CONTROL SAMPLE IDs

QC BATCH ID : G24A	PREP BLANK ID : GBLK24	LCS ID : GLCS22

PDP Analytical Services

1680 Lake Front Circle, Suite B, The Woodlands, TX 77380

LABORATORY REPORT

TPH PURGEABLES BY GC/FID

CLIENT NAME :	MEVATEC	CLIENT SAMPLE ID :	26030-SB06-(16.5-17.0) QAMSD1
PROJECT NAME :	HELSTF TSA POOL	LAB SAMPLE ID :	6053.005MSD
PROJECT NUMBER :		METHOD REFERENCE :	SW846-8015A
DATE SAMPLED :	5/3/00	DATE RECEIVED :	5/4/00
SAMPLE MATRIX :	SOIL	PRINTED ON :	6/1/2000 8:26

% MOISTURE	: 14.08	ANALYST	: DR
DATE ANALYZED	: 05/12/00	INSTRUMENT FILE	: B01078.D
INSTRUMENT ID	: B-HP5890	SAMPLE WEIGHT	: 5 g
TIME ANALYZED	: 23:41		

PARAMETER	QUANTITATION LIMIT	RESULTS	QUALIFIER
Total Petroleum Hydrocarbons - Gasoline Range	290 UG/KG	630 UG/KG	

QUALITY CONTROL DATA

SURROGATE COMPOUND	SPIKE ADDED	QC RECOVERY LIMITS	%RECOVERY
a,a,a-Trifluorotoluene	58.2 UG/KG	70 - 130	80

BATCH QUALITY CONTROL SAMPLE IDs

QC BATCH ID : G24A PREP BLANK ID : GBLK24 LCS ID : GLCS22

MS ID : 6053.005MS

PDP Analytical Services

1680 Lake Front Circle, Suite B, The Woodlands, TX 77380

MS/MSD SUMMARY REPORT

TPH PURGEABLES BY GC/FID

CLIENT NAME : MEVATEC
PROJECT NAME : HELSTF TSA POOL
PROJECT NUMBER :

DATE RECEIVED : 5/4/00
PRINTED ON : 6/1/2000 8:27

SAMPLE MATRIX : SOIL

METHOD REFERENCE : SW846-8015A

SAMPLE	MATRIX SPIKE	MATRIX SPIKE DUPLICATE
SAMPLE ID : 6053.005	MS SAMPLE ID : 6053.005MS	MSD SAMPLE ID : 6053.005MSD
CLIENT SAMPLE ID : 26030-SB06-(16.5-17	CLIENT SAMPLE ID : 26030-SB06-(16.5-17	CLIENT SAMPLE ID : 26030-SB06-(16.5-17
DATE ANALYZED : 05/11/00	DATE ANALYZED : 05/12/00	DATE ANALYZED : 05/12/00
INSTRUMENT FILE : B01042.D	INSTRUMENT FILE : B01077.D	INSTRUMENT FILE : B01078.D

PARAMETER	UNITS	MS SPIKE ADDED	MSD SPIKE ADDED	SAMPL CONC.	MS CONC.	MSD CONC.	MS RECOVERY (%)	MSD RECOVERY (%)	RPD	RPD LIMIT	QC LIMIT REC.
Total Petroleum Hydrocarbons - Ga	UG/KG	873	873	51	614	634	64 *	67 *	4.6	30	70 - 130

* Indicate values outside of QC limits

RPD : 0 out of 1 outside limits
Spike Recovery : 2 out of 2 outside limits

END OF REPORT

PDP
Analytical Services

1680 Lake Front Circle, Suite B
The Woodlands, Texas 77380
Phone (281) 363-2233
Fax (281) 298-5784
e-mail pdp@pdpanalytical.com

July 11, 2000

Greg Watterson
Mevatec Corporation
Building 126, 3rd Floor
White Sands Missile Range
NM 88022-0399

Episode: 6124
Project ID: Helstf TSA Pool
Project #: 700B9

Dear Mr. Watterson:

Enclosed are the analytical results samples received in our laboratory on June 2, 2000. The sample was analyzed for the parameters indicated on the chain of custody.

Please be advised that unused portions of your samples, sample extracts and digestates will be stored for 30 days from the date of this report. Unless prior arrangements were made, at the end of this period your samples will either be disposed of, or returned to you if your samples were determined to be hazardous.

We appreciate your business. Should you have any questions or need assistance with this report, please feel free to call me, at (281) 363-2233.

Sincerely,

Sean Sundquist
Project Manager

Enclosures

Cc: Episode File - 6124

CASE NARRATIVE

PDP Analytical Services
1680 Lake Front Circle Drive, Suite B The Woodlands, TX 77380
Phone: (281) 363-2233 Fax: (281) 298-5784

Episode No: 6124	Client: Mevatec	Project: Helstf TSA Pool

CASE NARRATIVE

Sample Receipt and Login

PDP Analytical Services received one (1) shipment, delivered by commercial carrier on 06/02/00. The one (1) water sample was scheduled for a fourteen (14) day turn-around-time

No discrepancies were found during login.

Sample Analysis Narrative

DISSOLVED NUTRIENTS

No analytical problems were encountered. All method QC criteria were met.

PHYSICAL CHARACTERISTICS

No analytical problems were encountered. All method QC criteria were met.

ANIONS

The sample was analyzed on 06/27/00. The MS/MSD for Chloride were above acceptance limits. The associated LCS met QC criteria indicating probable matrix affects for the MS/MSD. All other method QC criteria were met.

DISSOLVED CATIONS

The sample was prepared on 06/14/00 and analyzed on 06/14/00. Positive results were measured for Boron, Calcium, Magnesium, Manganese, Potassium, Sodium and Strontium. The dissolved Uranium analysis was subcontracted to Enviro Test Laboratories. No analytical problems were encountered. All method QC criteria were met.

PDP Analytical Services
1680 Lake Front Circle Drive, Suite B The Woodlands, TX 77380
Phone: (281) 363-2233 Fax: (281) 298-5784

Episode No: 6124	Client: Mevatec	Project: Helstf TSA Pool

CASE NARRATIVE

BTEX & MTBE

The sample was analyzed on 06/12/00. Target compounds were not detected in the sample. No analytical problems were encountered. All method QC criteria were met.

TPH-Gasoline Range Organics

The sample was prepared and analyzed on 06/09/00. Target compounds were detected below the quantitation limit in the sample. No analytical problems were encountered. All method QC criteria were met.

PDP ANALYTICAL SERVICES
1680 Lake Front Circle, Suite B The Woodlands, Texas 77380

DATA FLAGS AND ABBREVIATIONS

B	This flag is used when the analyte is found in the associated blank as well as in the sample.
D	Indicates that the compound could not be detected because it was diluted out.
DL	This flag identifies an analysis at a secondary dilution factor.
E	This flag identifies compounds whose concentrations exceed the calibration range of the instrument for that specific analysis. A more accurate quantitation is obtained from a diluted sample analysis.
I	This flag is used to indicate the presence of interference which resulted in not determining the value.
J	This flag is used when the data indicates the presence of a compound below the quanitation limit as determined by the identification criteria.
NA	Not applicable.
NC	Not calculated.
ND	Indicates a compound was analyzed for but not detected at the quantitation level.
P	This flag is used for a pesticide/aroclor target analyte when there is greater than 25% difference for detected concentrations between the two GC columns.
RE	This flag is used when the sample is re-extracted and re-analyzed.
RA	This flag is used when the sample is re-analyzed.
U	This flag indicates that the compound was analyzed for but not detected.
*	Indicates that the compound is out of the Quality Control limits.

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CHAIN OF CUSTODY

MEVATEC CORPORATION
P.O. Box 399
Bldg. 126
WSMR, NM 88002
(505) 678-0263

CHAIN OF CUSTODY RECORD

PAGE 1 OF 1

PROJECT NO.: 700 B9

PROJECT NAME: HELSTF JSA POL Station

SAMPLER'S SIGNATURE: [signature]

DATE COLLECTED	TIME COLLECTED	SAMPLE ID	MATRIX	LAB NO.	NO. OF CONTAINERS	TPH-DRO	BTEX	MTBE	Phy. Char.	Diss. Anions	Diss. Cations	Diss. Inst.	Diss. Metals			REMARKS
6/1/00	1253	26030-MW003-0600-QA	water		15	✓	✓	✓	✓	✓	✓	✓	✓			6124.001

PROJECT INFORMATION			1. RELINQUISHED BY: (SIGNATURE)	2. RELINQUISHED BY: (SIGNATURE)	3. RECEIVED BY LABORATORY: (SIGNATURE)
PROJECT MANAGER: Greg Watterson	SAMPLES RECEIVED		(PRINTED NAME) Alejandro Martinez	(PRINTED NAME)	(PRINTED NAME) CARLOS PIRIR
SHIPPING ID. NO.	TOTAL NO. OF CONTAINERS		RECEIVED BY:	RECEIVED BY:	(COMPANY) PDP Analytical
VIA: FED-X	CHAIN OF CUSTODY SEALS		(TIME / DATE)	(TIME / DATE)	(TIME / DATE) 9:16 6-2-00
	GOOD CONDITION/CHILLED		SPECIAL INSTRUCTIONS / COMMENTS: Please see Attached Analytical List For Details		
	CONFORMS TO RECORD				

PLEASE USE BALL POINT PEN

DISTRIBUTION: WHITE - PROJECT FILES; YELLOW - LAB; PINK - FIELD COPY

900000006

PDP ANALYTICAL SERVICES

1680 Lake Front Circle, Suite B, The Woodlands, TX 77380

SAMPLE LOG-IN CHECKLIST/DISCREPANCY REPORT

EPISODE #: 6124 DATE/ TIME REC'D: 6-2-00 9:16 TEMP & ID: 1) 3°C # A

CLIENT NAME: Mevatec CORPORATION 2) ____ # ____

PROJECT NAME: HELSTF TSA POL Station 3) ____ # ____

PROJECT NUMBER: 700B9 4) ____ # ____

1 AQUEOUS, # — SOIL SAMPLES 5) ____ # ____

COURIER/AIRBILL # FedEx 7925 9814 2193 6) ____ # ____

SAMPLE CONTAINER SEALS: present (absent) intact broken

COOLER CUSTODY SEALS: present absent (intact) broken NAME & DATE: N/A

HOW MANY AND WHERE One, on the front

	YES	NO
Were samples screened for radioactivity?	✓	
Chain-of-custody present?	✓	
Custody documents: Sealed in a plastic bag?	✓	
Signed and dated by field personnel	✓	
Filled out properly in indelable ink?	✓	
Signed and dated by log-in personnel?	✓	
Container Condition: Each containers sealed in a separate plastic bag?	✓	
Labels complete (ID, date, time, signature, preservative, etc.)?	✓	
Labels agree with chain-of-custody?	✓	
Received without leakage or breakage? If no, list :	✓	
Correct quantity indicated on chain-of-custody?	✓	
Sample Integrity: Correct containers used for the test indicated? If no, list:	✓	
Correct preservatives added to the samples? If no, list:	✓	
Sufficient sample amount sent for the tests indicated? If no, list	✓	
VOA vials filled completely? If no, list:	✓	
Aqueous volatiles samples preserved? If no, list:	✓	

Descrepancy Report:

Discepancies to be discussed with the client?

Project Manager's recommendations?

Who was notified? By whom? Date:

Client's comments:

Corrective actions carried out?

COMMENTS:

Those short holding time and fast turn-around parameters, has a Rush Notification sheet been issued to the lab?		

LOG-IN BY: Carlos Pérez DATE: 6-2-00

z:\netdata\qa\forms\admin\scdr0398

PDP Analytical Services
1680 Lake Front Circle, Suite B, The Woodlands TX 77380
Sample Log-In Report

Logged By: RB

Report Date: 6/6/2000 10:27:56

Client Name: MEVATEC
Client Project Name: HELSTF TSA POOL
ClientProject #: 70B9
P.O. No.: 700B9
Courier/No.:

Lab Project ID: EVATEC
Date Logged: 06/02/00
Date Received: 06/02/00
Time Received: 9:16

Lab Sample ID	Client Sample ID	No. Cont.	Sample Matrix	Date Sampled	Time Sampled	Chain Of Custody No.	Date Due	Remarks
6124.001	26030-MW003-0600-QA	15	WATER	06/01/00	12:53	6124		

Tests Required

- ALKALINITY,BICARB310.1_mevatec	06/16/00
- ALKALINITY,CARB310.1_mevatec	06/16/00
- BROMIDE_300	06/16/00
- BTEX8021B/MTBE	06/16/00
- CHLORIDE_300	06/16/00
- CONDUCTIVITY_120.1	06/16/00
- FLUORIDE300	06/16/00
- MET_DISSOLVED_6010B_U	06/16/00
- METALS-Q1396-DISSOLVED	06/16/00
- NITRATE_300	06/16/00
- PH_150.1	06/16/00
- PHOSPHORUS_TOTAL_4500-PE	06/16/00
- SULFATE_300	06/16/00
- TDS_160.1	06/16/00
- TPH8015A-PURGEABLES	06/16/00

Instructions To Lab:

EXTRACT SAMPLES WITHIN 48 HRS OF SAMPLING!
EDD REQUIRED

6/6/00
Lab Approval

Client Approval

2

PDP
Analytical Services
1680 Lake Front Circle, Suite 8
The Woodlands, Texas 77380
Phone (281) 363-2235
Fax (281) 298-5784
e-mail pdp@pdpanalytical.com

SAMPLE RECEIPT and LOGIN VERIFICATION

** Please fax immediately **

To: Greg Watterson Date & Time: 6/6/00

Company: Mevatec Pages: 3

Fax #: 505-678-~~6263~~ 6096 Episode: 6124

~~6059~~

Dear Valued Client:

We have taken every effort to insure that the samples you have submitted to us are assigned the correct sample identifications and analysis. However, only you can make the final determination. Please review the following PDP sample login sheet against the chain of custody that you have submitted to us. If you agree that the information is correct and that you authorize the work to be performed as stated on the sample login sheet, then please sign below and fax the form back to us within 24 hours. If PDP has not received authorization within 24 hours, then the analysis will be initiated as per the sample login sheet. However, PDP will not be held responsible for any problems that may arise without authorization. If you find discrepancies or wish to make changes, please advise us by telephone within 24 hours so that we may incorporate the changes.

With your cooperation, we will be able to process your testing more efficiently. Please coordinate with Sean Sundquist or Rick Schrynemeeckers with any changes or problems. We appreciate your help.

I authorize the work to be performed as on the PDP sample login sheet.

Signature: [signature]

Title: TC

PO# 8813-2008

Date & Time: 6/6/00 12:31

If this fax message is received poorly or incomplete, please notify us at the above number.

Looks good. Just be sure that all the parameters in MEVATEC Table 2 are analyzed.

3

PDP Analytical Services
1680 Lake Front Circle, Suite B, The Woodlands TX 77380
Sample Log-In Report

Logged By: RR **Report Date:** 6/6/2000 10:27:56

Client Name: MEVATEC **Lab Project ID:** EVATEC
Client Project Name: DELSTF TSA POOL **Date Logged:** 06/02/00
ClientProject #: 70B9 **Date Received:** 06/02/00
P.O. No.: 70B9 **Time Received:** 9:16
Courier/No.:

Lab Sample ID	Client Sample ID	No. Cont.	Sample Matrix	Date Sampled	Time Sampled	Chain Of Custody No.	Date Due	Remarks
0124.001	26039-MW003-0600-GA	15	WATER	06/01/00	12:52	0124		

Tests Required

- ALKALINITY,N.CARB310.1_mevatec	06/16/00
- ALKALINITY,CARB310.1_mevatec	06/16/00
- BROMIDE_300	06/16/00
- BTEX8021B/MTBE	06/16/00
- CHLORIDE_300	06/16/00
- CONDUCTIVITY_120.1	06/16/00
- FLUORIDE300	06/16/00
- MET_DISSOLVED_6010B_U	06/16/00
- METALS-Q1396-DISSOLVED	06/16/00
- NITRATE_300	06/16/00
- PH_150.1	06/16/00
- PHOSPHORUS_TOTAL_1500-PE	06/16/00
- SULFATE_300	06/16/00
- TDS_160.1	06/16/00
- TPH8015A-PURGEABLES	06/16/00

PO# 2222B-22228

Instructions To Lab:
EXTRACT SAMPLES WITHIN 48 HRS OF SAMPLING!
EDD REQUIRED

not for this sample set
only for soil samples that were done
last month

Lab Approval

Client Approval

0000010

4

Table 1. Analyte List for Ground Sampling of 3 Regional Wells

Groundwater Parameter	Analytical Method (EPA or SW846)	Detection Limits (mg/L)
Physical Characteristics		
Lab Conductivity (µS/cm at 25°C)	120.1	N/A
pH	150.1	N/A
TDS (µg/L ROE at 180°C)	160.1	50
Total Petroleum Hydrocarbons		
Gasoline Range Organics	8015, Modified	0.1
BTEX + MTBE	8021	0.01
Dissolved Anions/Cations		
Calcium	6010	0.01
Magnesium	6010	0.03
Potassium	200.7	0.7
Sodium	200.7	0.03
Bicarbonate	2300B	5.0
Bromide	2300B	2.0
Carbonate	2300B	5.0
Chloride	300.0	2.0
Sulfate	300.0	1.0
Fluoride	300.0	0.2
Dissolved Nutrients		
Nitrate	300.0	0.1
Phosphorus	6010	0.05
Dissolved Metals		
Barium	6010	0.05
Boron	6010	0.1
Iron	6010	0.2
Lithium	6010	0.1
Manganese	6010	0.05
Strontium	6010	0.1
Uranium	6010	5.0

Sample Data

ALKALINITY/BICARBONATE

PDP Analytical Services
1680 Lake Front Circle, Suite B, The Woodlands, TX 77380

LABORATORY REPORT

ALKALINITY (TITRIMETRIC)

CLIENT NAME : MEVATEC
PROJECT NAME : HELSTF TSA POOL
PROJECT NUMBER : 70B9
PRINTED ON : 6/21/2000 16:12

PARAMETER: Alkalinity, Bicarbonate (as HCO3)

CLIENT SAMPLE ID	26030-MW003-0600-Q	26030-MW003-0600-Q	PREP BLANK	LAB CONTROL SAMPL
SAMPLE ID	6124.001	6124.001DUP1	ABLK041	ALCS041
SAMPLE MATRIX	WATER	WATER		
DATE SAMPLED	6/1/00	6/1/00		
DATE RECEIVED	6/2/00	6/2/00		
METHOD REFERENCE	EPA-310.1	EPA-310.1	EPA-310.1	EPA-310.1
QUANTITATION LIMIT	1.5	1.5	1.5	1.46
RESULTS	99	98	ND	180
UNITS	MG/L	MG/L	MG/L	MG/L
QUALIFIER				
ANALYST	JA	JA	JA	JA
DATE ANALYZED	06/07/00	06/07/00	06/07/00	06/07/00
DILUTION	1	1	1	1
QC BATCH ID	A041	A041	A041	A041
PRE-PREP BLANK ID				
PREP BLANK ID	ABLK041	ABLK041	ABLK041	ABLK041
LCS ID	ALCS041	ALCS041		
LCSD ID	ALCS041D	ALCS041D		
DUP ID	6124.001DUP1	6124.001DUP1		

PDP Analytical Services
1680 Lake Front Circle, Suite B, The Woodlands, TX 77380

LABORATORY REPORT

ALKALINITY (TITRIMETRIC)

CLIENT NAME	:	MEVATEC	PROJECT NUMBER	:	70B9
PROJECT NAME	:	HELSTF TSA POOL	PRINTED ON	:	6/21/2000 16:12

PARAMETER: Alkalinity, Bicarbonate (as HCO3)

CLIENT SAMPLE ID	LAB CONTROL SAMP			
SAMPLE ID	ALCS041D			
SAMPLE MATRIX				
DATE SAMPLED				
DATE RECEIVED				
METHOD REFERENCE	EPA-310.1			
QUANTITATION LIMIT	1.46			
RESULTS	190			
UNITS	MG/L			
QUALIFIER				
ANALYST	JA			
DATE ANALYZED	06/07/00			
DILUTION	1			
QC BATCH ID	A041			
PRE-PREP BLANK ID				
PREP BLANK ID	ABLK041			
LCS ID	ALCS041			
LCSD ID				
DUP ID				

ALKALINITY/CARBONATE

PDP Analytical Services
1680 Lake Front Circle, Suite B, The Woodlands, TX 77380

LABORATORY REPORT

ALKALINITY (TITRIMETRIC)

CLIENT NAME : MEVATEC
PROJECT NAME : HELSTF TSA POOL
PROJECT NUMBER : 7089
PRINTED ON : 6/16/2000 11:43

PARAMETER: Alkalinity, Carbonate (as CO3)

CLIENT SAMPLE ID	26030-MW003-0600-Q	26030-MW003-0600-QA	PREP BLANK	LAB CONTROL SAMP
SAMPLE ID	6124.001	6124.001DUP1	ABLK041	ALCS041
SAMPLE MATRIX	WATER	WATER		
DATE SAMPLED	6/1/00	6/1/00		
DATE RECEIVED	6/2/00	6/2/00		
METHOD REFERENCE	EPA-310.1	EPA-310.1	EPA-310.1	EPA-310.1
QUANTITATION LIMIT	1.4	1.4	1.4	1.4
RESULTS	ND	ND	ND	180
UNITS	MG/L	MG/L	MG/L	MG/L
QUALIFIER				
ANALYST	JA	JA	JA	JA
DATE ANALYZED	06/07/00	06/07/00	06/07/00	06/07/00
DILUTION	1	1	1	1
QC BATCH ID	A041	A041	A041	A041
PRE-PREP BLANK ID				
PREP BLANK ID	ABLK041	ABLK041	ABLK041	ABLK041
LCS ID	ALCS041	ALCS041		
LCSD ID	ALCS041D	ALCS041D		
DUP ID	6124.001DUP1	6124.001DUP1		

PDP Analytical Services

1680 Lake Front Circle, Suite B, The Woodlands, TX 77380

LABORATORY REPORT

ALKALINITY (TITRIMETRIC)

CLIENT NAME	: MEVATEC		PROJECT NUMBER	: 70B9	
PROJECT NAME	: HELSTF TSA POOL		PRINTED ON	: 6/16/2000	11:43

PARAMETER: Alkalinity, Carbonate (as CO3)

CLIENT SAMPLE ID	LAB CONTROL SAMP			
SAMPLE ID	ALCS041D			
SAMPLE MATRIX				
DATE SAMPLED				
DATE RECEIVED				
METHOD REFERENCE	EPA-310.1			
QUANTITATION LIMIT	1.44			
RESULTS	180			
UNITS	MG/L			
QUALIFIER				
ANALYST	JA			
DATE ANALYZED	06/07/00			
DILUTION	1			
QC BATCH ID	A041			
PRE-PREP BLANK ID				
PREP BLANK ID	ABLK041			
LCS ID	ALCS041			
LCSD ID				
DUP ID				

BROMIDE

PDP Analytical Services

1680 Lake Front Circle, Suite B, The Woodlands, TX 77380

LABORATORY REPORT

BROMIDE BY ION CHROMATOGRAPHY

CLIENT NAME	: MEVATEC		PROJECT NUMBER	:	70B9
PROJECT NAME	: HELSTF TSA POOL		PRINTED ON	:	7/6/2000 16:58

PARAMETER: Bromide

CLIENT SAMPLE ID	26030-MW003-0600-Q	26030-MW003-0600-Q	PREP BLANK	LAB CONTROL SAMPL
SAMPLE ID	6124.001	6124.001DL1	ICBLK23	ICLCS23
SAMPLE MATRIX	WATER	WATER		
DATE SAMPLED	6/1/00	6/1/00		
DATE RECEIVED	6/2/00	6/2/00		
METHOD REFERENCE	EPA-300	EPA-300	EPA-300	EPA-300
QUANTITATION LIMIT	0.2	4	0.02	0.02
RESULTS	ND	ND	ND	1.81
UNITS	MG/L	MG/L	MG/L	MG/L
QUALIFIER				
ANALYST	GSR	GSR	GSR	GSR
DATE ANALYZED	06/27/00	06/28/00	06/27/00	06/27/00
DILUTION	10	200	1	1
INSTRUMENT FILE	0627A0C1.D16	0628A001.D10	0627A0C1.D09	0627A0C1.D10
INSTRUMENT ID	A-DIONEX300	A-DIONEX300	A-DIONEX300	A-DIONEX300
QC BATCH ID	IC23	IC23	IC23	IC23
PRE-PREP BLANK ID				
PREP BLANK ID	ICBLK23	ICBLK23	ICBLK23	ICBLK23
LCS ID	ICLCS23	ICLCS23		
LCSD ID				
MS ID				
MSD ID				
DUP ID				

BTEX

PDP Analytical Services

1680 Lake Front Circle, Suite B, The Woodlands, TX 77380

LABORATORY REPORT

BTEX & MTBE BY GC/PID

CLIENT NAME :	MEVATEC	CLIENT SAMPLE ID :	26030-MW003-0600-QA
PROJECT NAME :	HELSTF TSA POOL	LAB SAMPLE ID :	6124.001
PROJECT NUMBER :	70B9	METHOD REFERENCE :	SW846-8021B
DATE SAMPLED :	6/1/00	DATE RECEIVED :	6/2/00
SAMPLE MATRIX :	WATER	PRINTED ON :	6/12/2000 15:46

ANALYST	: DR	DATE ANALYZED	: 06/12/00
DILUTION	: 1	INSTRUMENT FILE	: B01251.D
INSTRUMENT ID	: B-HP5890B	PURGE VOLUME	: 40 mL
TIME ANALYZED	: 11:30		

PARAMETER	QUANTITATION LIMIT	RESULTS	QUALIFIER
Benzene	0.625 UG/L	ND UG/L	
Ethyl benzene	0.625 UG/L	ND UG/L	
Methyl tert-butyl ether	0.625 UG/L	ND UG/L	
Toluene	0.625 UG/L	ND UG/L	
Xylene (total)	0.625 UG/L	ND UG/L	

QUALITY CONTROL DATA

SURROGATE COMPOUND	SPIKE ADDED	QC RECOVERY LIMITS	%RECOVERY
a,a,a-Trifluorotoluene	6.25 UG/L	75 - 125	90

BATCH QUALITY CONTROL SAMPLE IDs

QC BATCH ID : B33	PREP BLANK ID : BBLK33	LCS ID : BLCS33
MS ID : 6124.001MS	MSD ID : 6124.001MSD	

CHLORIDE

PDP Analytical Services

1680 Lake Front Circle, Suite B, The Woodlands, TX 77380

LABORATORY REPORT

CHLORIDE BY ION CHROMATOGRAPHY

CLIENT NAME	: MEVATEC		PROJECT NUMBER	:	70B9
PROJECT NAME	: HELSTF TSA POOL		PRINTED ON	:	7/6/2000 16:33

PARAMETER: Chloride as Cl

CLIENT SAMPLE ID	26030-MW003-0600-Q	26030-MW003-0600-QA	LH18/24-ICT7-1004MS	LH18/24-ICT7-1004MS
SAMPLE ID	6124.001	6124.001DL1	6161.007MS	6161.007MSD
SAMPLE MATRIX	WATER	WATER	WATER	WATER
DATE SAMPLED	6/1/00	6/1/00	6/21/00	6/21/00
DATE RECEIVED	6/2/00	6/2/00	6/23/00	6/23/00
METHOD REFERENCE	EPA-300	EPA-300	EPA-300	EPA-300
QUANTITATION LIMIT	2	40	2	2
RESULTS	1360	1090	78.2	73.1
UNITS	MG/L	MG/L	MG/L	MG/L
QUALIFIER				
ANALYST	GSR	GSR	GSR	GSR
DATE ANALYZED	06/27/00	06/28/00	06/28/00	06/28/00
DILUTION	10	200	10	10
INSTRUMENT FILE	0627A0C1.D16	0628A001.D10	0628A011.D06	0628A011.D07
INSTRUMENT ID	A-DIONEX300	A-DIONEX300	A-DIONEX300	A-DIONEX300
QC BATCH ID	IC23	IC23	IC25	IC25
PRE-PREP BLANK ID				
PREP BLANK ID	ICBLK23	ICBLK23	ICBLK25	ICBLK25
LCS ID	ICLCS23	ICLCS23	ICLCS25	ICLCS25
LCSD ID				
MS ID	6161.007MS	6161.007MS		6161.007MS
MSD ID	6161.007MSD	6161.007MSD		
DUP ID				

PDP Analytical Services

1680 Lake Front Circle, Suite B, The Woodlands, TX 77380

LABORATORY REPORT

CHLORIDE BY ION CHROMATOGRAPHY

CLIENT NAME : MEVATEC
PROJECT NAME : HELSTF TSA POOL
PROJECT NUMBER : 70B9
PRINTED ON : 7/6/2000 16:33

PARAMETER: Chloride as Cl

CLIENT SAMPLE ID	PREP BLANK	LAB CONTROL SAMP		
SAMPLE ID	ICBLK23	ICLCS23		
SAMPLE MATRIX				
DATE SAMPLED				
DATE RECEIVED				
METHOD REFERENCE	EPA-300	EPA-300		
QUANTITATION LIMIT	0.2	0.2		
RESULTS	ND	1.67		
UNITS	MG/L	MG/L		
QUALIFIER				
ANALYST	GSR	GSR		
DATE ANALYZED	06/27/00	06/27/00		
DILUTION	1	1		
INSTRUMENT FILE	0627A0C1.D09	0627A0C1.D10		
INSTRUMENT ID	A-DIONEX300	A-DIONEX300		
QC BATCH ID	IC23	IC23		
PRE-PREP BLANK ID				
PREP BLANK ID	ICBLK23	ICBLK23		
LCS ID				
LCSD ID				
MS ID				
MSD ID				
DUP ID				

CONDUCTIVITY

PDP Analytical Services

1680 Lake Front Circle, Suite B, The Woodlands, TX 77380

LABORATORY REPORT

SPECIFIC CONDUCTANCE

CLIENT NAME : MEVATEC
PROJECT NAME : HELSTF TSA POOL
PROJECT NUMBER : 70B9
PRINTED ON : 6/7/2000 16:25

PARAMETER: Conductivity

CLIENT SAMPLE ID	26030-MW003-0600-Q	26030-MW003-0600-QA	LAB CONTROL SAMP	LAB CONTROL SAMP
SAMPLE ID	6124.001	6124.001DUP1	COLCS015	COLCS015D
SAMPLE MATRIX	WATER	WATER		
DATE SAMPLED	6/1/00	6/1/00		
DATE RECEIVED	6/2/00	6/2/00		
METHOD REFERENCE	EPA-120.1	EPA-120.1	EPA-120.1	EPA-120.1
QUANTITATION LIMIT	1	1	1	1
RESULTS	17.3	17.4	100	99.1
UNITS	US/CM	US/CM	UMHO/CM	UMHO/CM
QUALIFIER				
ANALYST	JA	JA	JA	JA
DATE ANALYZED	06/07/00	06/07/00	06/07/00	06/07/00
TIME ANALYZED	09:00	09:00	09:00	09:00
QC BATCH ID	CO015	CO015	CO015	CO015
PRE-PREP BLANK ID				
PREP BLANK ID				
LCS ID	COLCS015	COLCS015		
LCSD ID	COLCS015D	COLCS015D		
DUP ID	6124.001DUP1	6124.001DUP1		

FLUORIDE

PDP Analytical Services

1680 Lake Front Circle, Suite B, The Woodlands, TX 77380

LABORATORY REPORT

FLUORIDE BY ION CHROMATOGRAPHY

CLIENT NAME : MEVATEC PROJECT NUMBER : 70B9

PROJECT NAME : HELSTF TSA POOL PRINTED ON : 7/6/2000 16:33

PARAMETER: Fluoride as F

CLIENT SAMPLE ID	26030-MW003-0600-Q	26030-MW003-0600-QA	PREP BLANK	LAB CONTROL SAMP
SAMPLE ID	6124.001	6124.001DL1	ICBLK23	ICLCS23
SAMPLE MATRIX	WATER	WATER		
DATE SAMPLED	6/1/00	6/1/00		
DATE RECEIVED	6/2/00	6/2/00		
METHOD REFERENCE	EPA-300	EPA-300	EPA-300	EPA-300
QUANTITATION LIMIT	1	20	0.1	0.1
RESULTS	ND	ND	ND	1.6
UNITS	MG/L	MG/L	MG/L	MG/L
QUALIFIER				
ANALYST	GSR	GSR	GSR	GSR
DATE ANALYZED	06/27/00	06/28/00	06/27/00	06/27/00
DILUTION	10	200	1	1
INSTRUMENT FILE	0627A0C1.D16	0628A001.D10	0627A0C1.D09	0627A0C1.D10
INSTRUMENT ID	A-DIONEX 300	A-DIONEX 300	A-DIONEX 300	A-DIONEX 300
QC BATCH ID	IC23	IC23	IC23	IC23
PRE-PREP BLANK ID				
PREP BLANK ID	ICBLK23	ICBLK23	ICBLK23	ICBLK23
LCS ID	ICLCS23	ICLCS23		
LCSD ID				
MS ID				
MSD ID				
DUP ID				

METALS DISSOLVED

1680 Lake Front Circle, Suite B, The Woodlands, TX 77380
PDP Analytical Services

LABORATORY REPORT

DISSOLVED METALS

CLIENT NAME :	MEVATEC	CLIENT SAMPLE ID :	26030-MW003-0600-QA
PROJECT NAME :	HELSTF TSA POOL	LAB SAMPLE ID :	6124.001
PROJECT NUMBER :	70B9	DATE RECEIVED :	6/2/00
DATE SAMPLED :	6/1/00	PRINTED ON :	6/16/2000 9:31
SAMPLE MATRIX :	WATER	% MOISTURE :	

ANALYTE	METHOD	DATE PREPARED	DATE ANALYZED	DILU-TION	QUANTITATION LIMIT	RESULT	Q	ANA-LYST
Barium, Dissolved	SW846-6010B	6/14/00	6/14/00	1	0.05 MG/L	ND MG/L		AR
Boron, Dissolved	SW846-6010B	6/14/00	6/14/00	1	0.5 MG/L	0.773 MG/L		AR
Calcium, Dissolved	SW846-6010B	6/14/00	6/14/00	1	0.1 MG/L	410 MG/L		AR
Iron, Dissolved	SW846-6010B	6/14/00	6/14/00	1	0.2 MG/L	ND MG/L		AR
Lithium, Dissolved	SW846-6010B	6/14/00	6/14/00	1	0.1 MG/L	ND MG/L		AR
Magnesium, Dissolv	SW846-6010B	6/14/00	6/14/00	1	0.1 MG/L	280 MG/L		AR
Manganese, Dissolv	SW846-6010B	6/14/00	6/14/00	1	0.05 MG/L	0.07 MG/L		AR
Potassium, Dissolv	SW846-6010B	6/14/00	6/14/00	1	0.7 MG/L	36 MG/L		AR
Sodium, Dissolved	SW846-6010B	6/14/00	6/14/00	25	25 MG/L	2400 MG/L		AR
Strontium, Dissolv	SW846-6010B	6/14/00	6/14/00	1	0.1 MG/L	12 MG/L		AR

QUALITY ASSURANCE/QUALITY CONTROL

QC BATCH IDs

ANALYTE	QC BATCH ID	ANALYTE	QC BATCH ID	ANALYTE	QC BATCH ID
Barium, Dissolved	ICPB1712	Boron, Dissolved	ICPB1712	Calcium, Dissolved	ICPB1712
Iron, Dissolved	ICPB1712	Lithium, Dissolved	ICPB1712	Magnesium, Dissolved	ICPB1712
Manganese, Dissolved	ICPB1712	Potassium, Dissolved	ICPB1712	Sodium, Dissolved	ICPB1712
Strontium, Dissolved	ICPB1712				

METALS DISSOLVED - Uranium

Enviro-Test Laboratories LLC.

Chemical Analysis Report

PDP ANALYTICAL SERVICES

Attn: SEAN SUNDQUIST

1680 LAKE FRONT CIRCLE SIUTE B

THE WOODLANDS TX 77380

Date: 30 JUN 2000

Lab Work Order #: L1550

Date Received: 07 JUN 2000

Project P.O. #:

Project Reference:

Comments:

APPROVED BY: _____

Dave Demorest

Project Manager

Enviro • Test
LABORATORIES LLC.
420 West Street Casper, Wyoming 8260
Phone: (307) 235-5741 Fax:(307) 266-1676
Toll Free 1(800)666-030

Limit of Liability: Although care and due diligence is taken in the performance of our services, our liability in all cases is limited to re-analysis at our expense or refunding the analytical costs charged for the work performed.

Chemical Analysis Report

PDP ANALYTICAL SERVICES
1680 LAKE FRONT CIRCLE
SIUTE B
THE WOODLANDS TX 77380
ATTN: SEAN SUNDQUIST

Report Date: 30-JUN-00

PO No.:
WO NO.: L1550

Sample ID: 6124-001
Job Name:
Sampled By: CLIENT

Date Collected:
Lab Sample ID: L1550-1
Matrix:

Test Description	Result	Units of Measure	D.L.	Analyzed	By
Misc					
Uranium (U)	0.0460	mg/L	0.00002	16-JUN-00	GC

Enviro • Test
LABORATORIES LLC.
420 West Street Casper, Wyoming 8260
Phone: (307) 235-5741 Fax:(307) 266-1676
Toll Free 1(800)666-030

Limit of Liability: Although care and due diligence is taken in the performance of our services, our liability in all cases is limited to re-analysis at our expense or refunding the analytical costs charged for the work performed.

Methodology Reference

Test Code	Matrix	Test Description	Methodology Reference
U-TOT-LOW-CA	Water	Uranium (U)-Total	SM 3125-ICP-MS

Limit of Liability: Although care and due diligence is taken in the performance of our services, our liability in all cases is limited to re-analysis at our expense or refunding the analytical costs charged for the work performed.

NITRATE/NITRITE

PDP Analytical Services

1680 Lake Front Circle, Suite B, The Woodlands, TX 77380

LABORATORY REPORT

NITRATE BY ION CHROMATOGRAPHY

CLIENT NAME : MEVATEC
PROJECT NAME : HELSTF TSA POOL
PROJECT NUMBER : 70B9
PRINTED ON : 7/6/2000 16:33

PARAMETER: Nitrate (as N)

CLIENT SAMPLE ID	26030-MW003-0600-Q	26030-MW003-0600-QA	PREP BLANK	LAB CONTROL SAMP
SAMPLE ID	6124.001	6124.001DL1	ICBLK23	ICLCS23
SAMPLE MATRIX	WATER	WATER		
DATE SAMPLED	6/1/00	6/1/00		
DATE RECEIVED	6/2/00	6/2/00		
METHOD REFERENCE	EPA-300	EPA-300	EPA-300	EPA-300
QUANTITATION LIMIT	1	20	0.1	0.1
RESULTS	12	ND	ND	1.7
UNITS	MG/L	MG/L	MG/L	MG/L
QUALIFIER				
ANALYST	GSR	GSR	GSR	GSR
DATE ANALYZED	06/27/00	06/28/00	06/27/00	06/27/00
DILUTION	10	200	1	1
INSTRUMENT FILE	0627A0C1.D16	0628A001.D10	0627A0C1.D09	0627A0C1.D10
INSTRUMENT ID	A-DIONEX300	A-DIONEX300	A-DIONEX300	A-DIONEX300
QC BATCH ID	IC23	IC23	IC23	IC23
PRE-PREP BLANK ID				
PREP BLANK ID	ICBLK23	ICBLK23	ICBLK23	ICBLK23
LCS ID	ICLCS23	ICLCS23		
LCSD ID				
MS ID				
MSD ID				
DUP ID				

pH

PDP Analytical Services
1680 Lake Front Circle, Suite B, The Woodlands, TX 77380

LABORATORY REPORT

pH

CLIENT NAME : MEVATEC
PROJECT NAME : HELSTF TSA POOL

PROJECT NUMBER : 70B9
PRINTED ON : 6/7/2000 16:21

PARAMETER: pH

CLIENT SAMPLE ID	26030-MW003-0600-Q	26030-MW003-0600-QA	LAB CONTROL SAMP	LAB CONTROL SAMP
SAMPLE ID	6124.001	6124.001DUP1	PHLCS071	PHLCS071D
SAMPLE MATRIX	WATER	WATER		
DATE SAMPLED	6/1/00	6/1/00		
DATE RECEIVED	6/2/00	6/2/00		
METHOD REFERENCE	EPA-150.1	EPA-150.1	EPA-150.1	EPA-150.1
QUANTITATION LIMIT	0	0	0	0
RESULTS	7.68	7.69	8.84	8.83
UNITS	UNITS	UNITS	UNITS	UNITS
QUALIFIER				
ANALYST	JA	JA	JA	JA
DATE ANALYZED	06/07/00	06/07/00	06/07/00	06/07/00
QC BATCH ID	PH071	PH071	PH071	PH071
PRE-PREP BLANK ID				
PREP BLANK ID				
LCS ID	PHLCS071	PHLCS071		
LCSD ID	PHLCS071D	PHLCS071D		
DUP ID	6124.001DUP1	6124.001DUP1		

PHOSPHUROUS

PDP Analytical Services

1680 Lake Front Circle, Suite B, The Woodlands, TX 77380

LABORATORY REPORT

TOTAL PHOSPHORUS

CLIENT NAME : MEVATEC
PROJECT NAME : HELSTF TSA POOL
PROJECT NUMBER : 7089
PRINTED ON : 6/12/2000 14:12

PARAMETER: Phosphorus, total (as P)

CLIENT SAMPLE ID	26030-MW003-0600-Q	26030-MW003-0600-QA	26030-MW003-0600-QA	PREP BLANK
SAMPLE ID	6124.001	6124.001MS	6124.001MSD	TPBLK019
SAMPLE MATRIX	WATER	WATER	WATER	
DATE SAMPLED	6/1/00	6/1/00	6/1/00	
DATE RECEIVED	6/2/00	6/2/00	6/2/00	
METHOD REFERENCE	4500-PE	4500-PE	4500-PE	4500-PE
QUANTITATION LIMIT	0.01	0.01	0.01	0.01
RESULTS	0.128	0.356	0.356	ND
UNITS	MG/L	MG/L	MG/L	MG/L
QUALIFIER				
ANALYST	JA	JA	JA	JA
DATE ANALYZED	06/08/00	06/08/00	06/08/00	06/08/00
DATE PREPPED	06/08/00	06/08/00	06/08/00	06/08/00
DILUTION	1	1	1	1
QC BATCH ID	TP019	TP019	TP019	TP019
PRE-PREP BLANK ID				
PREP BLANK ID	TPBLK019	TPBLK019	TPBLK019	TPBLK019
LCS ID	TPLCS019	TPLCS019	TPLCS019	
LCSD ID	TPLCS019D	TPLCS019D	TPLCS019D	
MS ID	6124.001MS		6124.001MS	
MSD ID	6124.001MSD			
DUP ID				

PDP Analytical Services

1680 Lake Front Circle, Suite B, The Woodlands, TX 77380

LABORATORY REPORT

TOTAL PHOSPHORUS

CLIENT NAME	: MEVATEC		PROJECT NUMBER	: 70B9	
PROJECT NAME	: HELSTF TSA POOL		PRINTED ON	: 6/12/2000	14:12

PARAMETER: Phosphorus, total (as P)

CLIENT SAMPLE ID	LAB CONTROL SAMP	LAB CONTROL SAMP		
SAMPLE ID	TPLCS019	TPLCS019D		
SAMPLE MATRIX				
DATE SAMPLED				
DATE RECEIVED				
METHOD REFERENCE	4500-PE	4500-PE		
QUANTITATION LIMIT	0.01	0.01		
RESULTS	0.246	0.242		
UNITS	MG/L	MG/L		
QUALIFIER				
ANALYST	JA	JA		
DATE ANALYZED	06/08/00	06/08/00		
DATE PREPPED	06/08/00	06/08/00		
DILUTION	1	1		
QC BATCH ID	TP019	TP019		
PRE-PREP BLANK ID				
PREP BLANK ID	TPBLK019	TPBLK019		
LCS ID		TPLCS019		
LCSD ID				
MS ID				
MSD ID				
DUP ID				

SULFATE

PDP Analytical Services

1680 Lake Front Circle, Suite B, The Woodlands, TX 77380

LABORATORY REPORT

SULFATE BY ION CHROMATOGRAPHY

CLIENT NAME	: MEVATEC		PROJECT NUMBER	:	70B9
PROJECT NAME	: HELSTF TSA POOL		PRINTED ON	:	7/6/2000 16:33

PARAMETER: Sulfate (as SO4)

CLIENT SAMPLE ID	26030-MW003-0600-Q	26030-MW003-0600-QA	PREP BLANK	LAB CONTROL SAMP
SAMPLE ID	6124.001	6124.001DL1	ICBLK23	ICLCS23
SAMPLE MATRIX	WATER	WATER		
DATE SAMPLED	6/1/00	6/1/00		
DATE RECEIVED	6/2/00	6/2/00		
METHOD REFERENCE	EPA-300	EPA-300	EPA-300	EPA-300
QUANTITATION LIMIT	5	100	0.5	0.5
RESULTS	6510	5240	ND	3.54
UNITS	MG/L	MG/L	MG/L	MG/L
QUALIFIER				
ANALYST	GSR	GSR	GSR	GSR
DATE ANALYZED	06/27/00	06/28/00	06/27/00	06/27/00
DILUTION	10	200	1	1
INSTRUMENT FILE	0627A0C1.D16	0628A001.D10	0627A0C1.D09	0627A0C1.D10
INSTRUMENT ID	A-DIONEX300	A-DIONEX300	A-DIONEX300	A-DIONEX300
QC BATCH ID	IC23	IC23	IC23	IC23
PRE-PREP BLANK ID				
PREP BLANK ID	ICBLK23	ICBLK23	ICBLK23	ICBLK23
LCS ID	ICLCS23	ICLCS23		
LCSD ID				
MS ID				
MSD ID				
DUP ID				

TOTAL DISSOLVED SOLIDS (TDS)

PDP Analytical Services

1680 Lake Front Circle, Suite B, The Woodlands, TX 77380

LABORATORY REPORT

TOTAL DISSOLVED SOLIDS (TDS)

CLIENT NAME	: MEVATEC		PROJECT NUMBER	:	70B9
PROJECT NAME	: HELSTF TSA POOL		PRINTED ON	:	6/12/2000 12:29

PARAMETER: Total Dissolved Solids

CLIENT SAMPLE ID	26030-MW003-0600-Q	26030-MW003-0600-QA	PREP BLANK	LAB CONTROL SAMP
SAMPLE ID	6124.001	6124.001DUP1	TDSBLK032	TDSLCS032
SAMPLE MATRIX	WATER	WATER		
DATE SAMPLED	6/1/00	6/1/00		
DATE RECEIVED	6/2/00	6/2/00		
METHOD REFERENCE	EPA-160.1	EPA-160.1	EPA-160.1	EPA-160.1
QUANTITATION LIMIT	10	10	10	10
RESULTS	8550	8930	ND	510
UNITS	MG/L	MG/L	MG/L	MG/L
QUALIFIER				
ANALYST	JA	JA	JA	JA
DATE ANALYZED	06/08/00	06/08/00	06/08/00	06/08/00
QC BATCH ID	TDS032	TDS032	TDS032	TDS032
PRE-PREP BLANK ID				
PREP BLANK ID	TDSBLK032	TDSBLK032	TDSBLK032	TDSBLK032
LCS ID	TDSLCS032	TDSLCS032		
LCSD ID	TDSLCS032D	TDSLCS032D		
DUP ID	6124.001DUP1	6124.001DUP1		

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1680 Lake Front Circle, Suite B, The Woodlands, TX 77380

LABORATORY REPORT

TOTAL DISSOLVED SOLIDS (TDS)

CLIENT NAME	: MEVATEC		PROJECT NUMBER	: 70B9	
PROJECT NAME	: HELSTF TSA POOL		PRINTED ON	: 6/12/2000	12:29

PARAMETER: Total Dissolved Solids

CLIENT SAMPLE ID	LAB CONTROL SAMP			
SAMPLE ID	TDSLCS032D			
SAMPLE MATRIX				
DATE SAMPLED				
DATE RECEIVED				
METHOD REFERENCE	EPA-160.1			
QUANTITATION LIMIT	10			
RESULTS	490			
UNITS	MG/L			
QUALIFIER				
ANALYST	JA			
DATE ANALYZED	06/08/00			
QC BATCH ID	TDS032			
PRE-PREP BLANK ID				
PREP BLANK ID	TDSBLK032			
LCS ID				
LCSD ID				
DUP ID				

TPH8015A-Purgeables

PDP Analytical Services

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LABORATORY REPORT

TPH PURGEABLES BY GC/FID

CLIENT NAME :	MEVATEC	CLIENT SAMPLE ID :	26030-MW003-0600-QA
PROJECT NAME :	HELSTF TSA POOL	LAB SAMPLE ID :	6124.001
PROJECT NUMBER :	70B9	METHOD REFERENCE :	SW846-8015A
DATE SAMPLED :	6/1/00	DATE RECEIVED :	6/2/00
SAMPLE MATRIX :	WATER	PRINTED ON :	6/12/2000 14:54

ANALYST	: DR	DATE ANALYZED	: 06/09/00
DILUTION	: 1	INSTRUMENT FILE	: B01243.D
INSTRUMENT ID	: B-HP5890	PURGE VOLUME	: 40 mL
TIME ANALYZED	: 16:15		

PARAMETER	QUANTITATION LIMIT	RESULTS	QUALIFIER
Total Petroleum Hydrocarbons - Gasoline Range	31 UG/L	1.2 UG/L	J

QUALITY CONTROL DATA

SURROGATE COMPOUND	SPIKE ADDED	QC RECOVERY LIMITS	%RECOVERY
a,a,a-Trifluorotoluene	6.2 UG/L	75 - 125	76

BATCH QUALITY CONTROL SAMPLE IDs

QC BATCH ID : G31	PREP BLANK ID : GBLK31	LCS ID : GLCS29
MS ID : 6124.001MS	MSD ID : 6124.001MSD	

Quality Control Data

ALKALINITY/BICARBONATE

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1680 Lake Front Circle, Suite B, The Woodlands, TX 77380

LCS/LCSD SUMMARY REPORT

ALKALINITY (TITRIMETRIC)

CLIENT NAME :
PROJECT NAME :
PROJECT NUMBER :

DATE RECEIVED :
PRINTED ON :6/21/2000 16:12

SAMPLE MATRIX :LIQUID

METHOD REFERENCE :EPA-310.1

LAB CONTROL SAMPLE

LCS SAMPLE ID :ALCS041
CLIENT SAMPLE ID :
DATE ANALYZED :06/07/00
INSTRUMENT FILE :

LAB CONTROL SAMPLE DUPLICATE

LCSD SAMPLE ID :ALCS041D
CLIENT SAMPLE ID :
DATE ANALYZED :06/07/00
INSTRUMENT FILE :

PARAMETER	UNIT	LCS TRUE VALUE	LCSD TRUE VALUE	LCS FOUND VALUE	LCSD FOUN VALUE	LCS RECOVER (%)	LCSD RECOVERY (%)	RPD	RPD LIMIT	QC LIMIT REC.
Alkalinity, Bicarbonate (as HCO3	MG/L	183	183	175	187	96	102	6.1	20	90 - 110

* Indicate values outside of QC limits

RPD : 0 out of 1 outside limits
Spike Recovery : 0 out of 2 outside limits

PDP Analytical Services
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DUPLICATE SUMMARY REPORT

ALKALINITY (TITRIMETRIC)

CLIENT NAME	: MEVATEC	DATE RECEIVED	: 6/2/00
PROJECT NAME	: HELSTF TSA POOL	PRINTED ON	: 6/21/2000
PROJECT NUMBER	: 70B9		
SAMPLE MATRIX	: WATER	METHOD REFERENCE	: EPA-310.1
SAMPLE		SAMPLE DUPLICATE	
SAMPLE ID	:	DUP SAMPLE ID	: 6124.001DUP1
CLIENT SAMPLE ID	: 26030-MW003-0600-QA	CLIENT SAMPLE ID	: 26030-MW003-0600-QAD
DATE ANALYZED	: 06/07/00	DATE ANALYZED	: 06/07/00
GC FILE ID	:	INSTRUMENT FILE	:

COMPOUND	SAMPLE CONC.	DUP. CONC.	UNITS	RPD	RPD LIMITS
Alkalinity, Bicarbonate (as HCO3)	99	98	MG/L	1.0	20

* Indicate values outside of QC limits

RPD : 0 out of 1 outside limits

ALKALINITY/CARBONATE

PDP Analytical Services
1680 Lake Front Circle, Suite B, The Woodlands, TX 77380

DUPLICATE SUMMARY REPORT
ALKALINITY (TITRIMETRIC)

CLIENT NAME	: MEVATEC	DATE RECEIVED	: 6/2/00
PROJECT NAME	: HELSTF TSA POOL	PRINTED ON	: 6/16/2000
PROJECT NUMBER	: 70B9		
SAMPLE MATRIX	: WATER	METHOD REFERENCE	: EPA-310.1
SAMPLE		SAMPLE DUPLICATE	
SAMPLE ID	:	DUP SAMPLE ID	: 6124.001DUP1
CLIENT SAMPLE ID	: 26030-MW003-0600-QA	CLIENT SAMPLE ID	: 26030-MW003-0600-QA
DATE ANALYZED	: 06/07/00	DATE ANALYZED	: 06/07/00
GC FILE ID	:	INSTRUMENT FILE	:

COMPOUND	SAMPLE CONC.	DUP. CONC.	UNITS	RPD	RPD LIMITS
Alkalinity, Carbonate (as CO3)	0	0	MG/L	0.0	20

* Indicate values outside of QC limits

RPD : 0 out of 1 outside limits

PDP Analytical Services

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LCS/LCSD SUMMARY REPORT

ALKALINITY (TITRIMETRIC)

CLIENT NAME :
PROJECT NAME :
PROJECT NUMBER :

DATE RECEIVED :
PRINTED ON :7/11/2000 11:03

SAMPLE MATRIX :LIQUID

METHOD REFERENCE :EPA-310.1

LAB CONTROL SAMPLE

LCS SAMPLE ID :ALCS041
CLIENT SAMPLE ID :
DATE ANALYZED :06/07/00
INSTRUMENT FILE :

LAB CONTROL SAMPLE DUPLICATE

LCSD SAMPLE ID :ALCS041D
CLIENT SAMPLE ID :
DATE ANALYZED :06/07/00
INSTRUMENT FILE :

PARAMETER	UNIT	LCS TRUE VALUE	LCSD TRUE VALUE	LCS FOUND VALUE	LCSD FOUN VALUE	LCS RECOVER (%)	LCSD RECOVERY (%)	RPD	RPD LIMIT	QC LIMIT REC.
Alkalinity, Carbonate (as CO3)	MG/L	180	180	180	180	100	100	0.0	20	90 - 110

* Indicate values outside of QC limits

RPD : 0 out of 1 outside limits
Spike Recovery : 0 out of 2 outside limits

BROMIDE

PDP Analytical Services
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LCS/LCSD SUMMARY REPORT
BROMIDE BY ION CHROMATOGRAPHY

CLIENT NAME :
PROJECT NAME :
PROJECT NUMBER :

DATE RECEIVED :
PRINTED ON :7/6/2000 16:58

SAMPLE MATRIX :LIQUID
METHOD REFERENCE :EPA-300

LAB CONTROL SAMPLE
LCS SAMPLE ID :ICLCS23
CLIENT SAMPLE ID :
DATE ANALYZED :06/27/00
INSTRUMENT FILE :0627A0C1.D10

LAB CONTROL SAMPLE DUPLICATE
LCSD SAMPLE ID :
CLIENT SAMPLE ID :
DATE ANALYZED :
INSTRUMENT FILE :

PARAMETER	UNIT	LCS TRUE VALUE	LCSD TRUE VALUE	LCS FOUND VALUE	LCSD FOUN VALUE	LCS RECOVER (%)	LCSD RECOVERY (%)	RPD	RPD LIMIT	QC LIMIT REC.
Bromide	MG/L	2.00		1.81		91			20	80 - 120

* Indicate values outside of QC limits

RPD : 0 out of 0 outside limits
Spike Recovery : 0 out of 1 outside limits

BTEX

PDP Analytical Services

1680 Lake Front Circle, Suite B, The Woodlands, TX 77380

LABORATORY REPORT

BTEX & MTBE BY GC/PID

CLIENT NAME :		CLIENT SAMPLE ID :	Prep Blank
PROJECT NAME :		LAB SAMPLE ID :	BBLK33
PROJECT NUMBER :		METHOD REFERENCE :	SW846-8021B
DATE SAMPLED :		DATE RECEIVED :	
SAMPLE MATRIX :	LIQUID	PRINTED ON :	6/12/2000 15:46

ANALYST	: DR	DATE ANALYZED	: 06/12/00
DILUTION	: 1	INSTRUMENT FILE	: B01249.D
INSTRUMENT ID	: B-HP5890B	PURGE VOLUME	: 40 mL
TIME ANALYZED	: 09:42		

PARAMETER	QUANTITATION LIMIT	RESULTS	QUALIFIER
Benzene	0.625 UG/L	ND UG/L	
Ethyl benzene	0.625 UG/L	ND UG/L	
Methyl tert-butyl ether	0.625 UG/L	ND UG/L	
Toluene	0.625 UG/L	ND UG/L	
Xylene (total)	0.625 UG/L	ND UG/L	

QUALITY CONTROL DATA

SURROGATE COMPOUND	SPIKE ADDED	QC RECOVERY LIMITS	%RECOVERY
a,a,a-Trifluorotoluene	6.25 UG/L	75 - 125	87

BATCH QUALITY CONTROL SAMPLE IDs

QC BATCH ID : B33 PREP BLANK ID : BBLK33

PDP Analytical Services

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LABORATORY REPORT

BTEX & MTBE BY GC/PID

CLIENT NAME :		CLIENT SAMPLE ID :	Lab Control Sample
PROJECT NAME :		LAB SAMPLE ID :	BLCS33
PROJECT NUMBER :		METHOD REFERENCE :	SW846-8021B
DATE SAMPLED :		DATE RECEIVED :	
SAMPLE MATRIX :	LIQUID	PRINTED ON :	6/12/2000 15:46

ANALYST	: DR	DATE ANALYZED	: 06/12/00
DILUTION	: 1	INSTRUMENT FILE	: B01250.D
INSTRUMENT ID	: B-HP5890B	PURGE VOLUME	: 40 mL
TIME ANALYZED	: 10:46		

PARAMETER	QUANTITATION LIMIT	RESULTS	QUALIFIER
Benzene	0.625 UG/L	5.36 UG/L	
Ethyl benzene	0.625 UG/L	5.12 UG/L	
Methyl tert-butyl ether	0.625 UG/L	6.07 UG/L	
Toluene	0.625 UG/L	5.09 UG/L	
Xylene (total)	0.625 UG/L	15.0 UG/L	

QUALITY CONTROL DATA

SURROGATE COMPOUND	SPIKE ADDED	QC RECOVERY LIMITS	%RECOVERY
a,a,a-Trifluorotoluene	6.25 UG/L	75 - 125	88

BATCH QUALITY CONTROL SAMPLE IDs

QC BATCH ID : B33 PREP BLANK ID : BBLK33

PDP Analytical Services
1680 Lake Front Circle, Suite B, The Woodlands, TX 77380

LCS/LCSD SUMMARY REPORT

BTEX & MTBE BY GC/PID

CLIENT NAME :
PROJECT NAME :
PROJECT NUMBER :

DATE RECEIVED :
PRINTED ON :6/12/2000 15:46

SAMPLE MATRIX :LIQUID
METHOD REFERENCE :SW846-8021B

LAB CONTROL SAMPLE
LCS SAMPLE ID :BLCS33
CLIENT SAMPLE ID :
DATE ANALYZED :06/12/00
INSTRUMENT FILE :B01250.D

LAB CONTROL SAMPLE DUPLICATE
LCSD SAMPLE ID :
CLIENT SAMPLE ID :
DATE ANALYZED :
INSTRUMENT FILE :

PARAMETER	UNIT	LCS TRUE VALUE	LCSD TRUE VALUE	LCS FOUND VALUE	LCSD FOUN VALUE	LCS RECOVER (%)	LCSD RECOVERY (%)	RPD	RPD LIMIT	QC LIMIT REC.
Benzene	UG/L	6.25		5.36		86			25	75 - 125
Ethyl benzene	UG/L	6.25		5.12		82			25	75 - 125
Methyl tert-butyl ether	UG/L	6.25		6.07		97			25	75 - 125
Toluene	UG/L	6.25		5.09		81			25	75 - 125
Xylene (total)	UG/L	18.7		15.0		80			25	75 - 125

* Indicate values outside of QC limits

RPD : 0 out of 0 outside limits
Spike Recovery : 0 out of 5 outside limits

PDP Analytical Services

1680 Lake Front Circle, Suite B, The Woodlands, TX 77380

LABORATORY REPORT

BTEX & MTBE BY GC/PID

CLIENT NAME	: MEVATEC	CLIENT SAMPLE ID	: 26030-MW003-0600-QAMS1
PROJECT NAME	: HELSTF TSA POOL	LAB SAMPLE ID	: 6124.001MS
PROJECT NUMBER	: 70B9	METHOD REFERENCE	: SW846-8021B
DATE SAMPLED	: 6/1/00	DATE RECEIVED	: 6/2/00
SAMPLE MATRIX	: WATER	PRINTED ON	: 6/12/2000 15:46

ANALYST	: DR	DATE ANALYZED	: 06/12/00
DILUTION	: 1	INSTRUMENT FILE	: B01252.D
INSTRUMENT ID	: B-HP5890B	PURGE VOLUME	: 40 mL
TIME ANALYZED	: 11:57		

PARAMETER	QUANTITATION LIMIT	RESULTS	QUALIFIER
Benzene	0.625 UG/L	5.69 UG/L	
Ethyl benzene	0.625 UG/L	5.28 UG/L	
Methyl tert-butyl ether	0.625 UG/L	6.73 UG/L	
Toluene	0.625 UG/L	5.40 UG/L	
Xylene (total)	0.625 UG/L	15.6 UG/L	

QUALITY CONTROL DATA

SURROGATE COMPOUND	SPIKE ADDED	QC RECOVERY LIMITS	%RECOVERY
a,a,a-Trifluorotoluene	6.25 UG/L	75 - 125	92

BATCH QUALITY CONTROL SAMPLE IDs

QC BATCH ID : B33 PREP BLANK ID : BBLK33 LCS ID : BLCS33

PDP Analytical Services

1680 Lake Front Circle, Suite B, The Woodlands, TX 77380

LABORATORY REPORT

BTEX & MTBE BY GC/PID

CLIENT NAME :	MEVATEC	CLIENT SAMPLE ID :	26030-MW003-0600-QAMSD1
PROJECT NAME :	HELSTF TSA POOL	LAB SAMPLE ID :	6124.001MSD
PROJECT NUMBER :	70B9	METHOD REFERENCE :	SW846-8021B
DATE SAMPLED :	6/1/00	DATE RECEIVED :	6/2/00
SAMPLE MATRIX :	WATER	PRINTED ON :	6/12/2000 15:46

ANALYST	: DR	DATE ANALYZED	: 06/12/00
DILUTION	: 1	INSTRUMENT FILE	: B01253.D
INSTRUMENT ID	: B-HP5890B	PURGE VOLUME	: 40 mL
TIME ANALYZED	: 12:24		

PARAMETER	QUANTITATION LIMIT	RESULTS	QUALIFIER
Benzene	0.625 UG/L	5.72 UG/L	
Ethyl benzene	0.625 UG/L	5.13 UG/L	
Methyl tert-butyl ether	0.625 UG/L	6.80 UG/L	
Toluene	0.625 UG/L	5.41 UG/L	
Xylene (total)	0.625 UG/L	15.8 UG/L	

QUALITY CONTROL DATA

SURROGATE COMPOUND	SPIKE ADDED	QC RECOVERY LIMITS	%RECOVERY
a,a,a-Trifluorotoluene	6.25 UG/L	75 - 125	92

BATCH QUALITY CONTROL SAMPLE IDs

QC BATCH ID : B33 PREP BLANK ID : BBLK33 LCS ID : BLCS33

MS ID : 6124.001MS

PDP Analytical Services

1680 Lake Front Circle, Suite B, The Woodlands, TX 77380

MS/MSD SUMMARY REPORT

BTEX & MTBE BY GC/PID

CLIENT NAME : MEVATEC
PROJECT NAME : HELSTF TSA POOL
PROJECT NUMBER : 70B9

DATE RECEIVED : 6/2/00
PRINTED ON : 6/12/2000 15:46

SAMPLE MATRIX : WATER

METHOD REFERENCE : SW846-8021B

SAMPLE	MATRIX SPIKE	MATRIX SPIKE DUPLICATE
SAMPLE ID : 6124.001	MS SAMPLE ID : 6124.001MS	MSD SAMPLE ID : 6124.001MSD
CLIENT SAMPLE ID : 26030-MW003-0600-QA	CLIENT SAMPLE ID : 26030-MW003-0600-QA	CLIENT SAMPLE ID : 26030-MW003-0600-QA
DATE ANALYZED : 06/12/00	DATE ANALYZED : 06/12/00	DATE ANALYZED : 06/12/00
INSTRUMENT FILE : B01251.D	INSTRUMENT FILE : B01252.D	INSTRUMENT FILE : B01253.D

PARAMETER	UNITS	MS SPIKE ADDED	MSD SPIKE ADDED	SAMPL CONC.	MS CONC.	MSD CONC.	MS RECOVERY (%)	MSD RECOVERY (%)	RPD	RPD LIMIT	QC LIMIT REC.
Benzene	UG/L	6.25	6.25	0	5.69	5.72	91	92	1.1	25	75 - 125
Ethyl benzene	UG/L	6.25	6.25	0	5.28	5.13	84	82	2.4	25	75 - 125
Methyl tert-butyl ether	UG/L	6.25	6.25	0	6.73	6.80	108	109	0.9	25	75 - 125
Toluene	UG/L	6.25	6.25	0	5.40	5.41	86	87	1.2	25	75 - 125
Xylene (total)	UG/L	18.7	18.7	0	15.6	15.8	83	84	1.2	25	75 - 125

* Indicate values outside of QC limits

RPD : 0 out of 5 outside limits
Spike Recovery : 0 out of 10 outside limits

CHLORIDE

PDP Analytical Services

1680 Lake Front Circle, Suite B, The Woodlands, TX 77380

LCS/LCSD SUMMARY REPORT

CHLORIDE BY ION CHROMATOGRAPHY

CLIENT NAME :
PROJECT NAME :
PROJECT NUMBER :

DATE RECEIVED :
PRINTED ON : 7/6/2000 16:33

SAMPLE MATRIX : LIQUID
METHOD REFERENCE : EPA-300

LAB CONTROL SAMPLE
LCS SAMPLE ID : ICLCS23
CLIENT SAMPLE ID :
DATE ANALYZED : 06/27/00
INSTRUMENT FILE : 0627A0C1.D10

LAB CONTROL SAMPLE DUPLICATE
LCSD SAMPLE ID :
CLIENT SAMPLE ID :
DATE ANALYZED :
INSTRUMENT FILE :

PARAMETER	UNIT	LCS TRUE VALUE	LCSD TRUE VALUE	LCS FOUND VALUE	LCSD FOUN VALUE	LCS RECOVER (%)	LCSD RECOVERY (%)	RPD	RPD LIMIT	QC LIMIT REC.
Chloride as Cl	MG/L	2.00		1.67		84			20	80 - 120

* Indicate values outside of QC limits

RPD : 0 out of 0 outside limits
Spike Recovery : 0 out of 1 outside limits

PDP Analytical Services
1680 Lake Front Circle, Suite B, The Woodlands, TX 77380

MS/MSD SUMMARY REPORT

CHLORIDE BY ION CHROMATOGRAPHY

CLIENT NAME : COMPLETE ENVIRNOMENTAL SERVICES
PROJECT NAME : LHAAP-GWTP
PROJECT NUMBER :

DATE RECEIVED : 6/23/00
PRINTED ON : 7/6/2000 16:33

SAMPLE MATRIX : WATER

METHOD REFERENCE : EPA-300

SAMPLE	MATRIX SPIKE	MATRIX SPIKE DUPLICATE
SAMPLE ID : 6161.007	MS SAMPLE ID : 6161.007MS	MSD SAMPLE ID : 6161.007MSD
CLIENT SAMPLE ID : LH18/24-ICT7-1004	CLIENT SAMPLE ID : LH18/24-ICT7-1004MS	CLIENT SAMPLE ID : LH18/24-ICT7-1004MS
DATE ANALYZED : 06/28/00	DATE ANALYZED : 06/28/00	DATE ANALYZED : 06/28/00
INSTRUMENT FILE : 0628A011.D05	INSTRUMENT FILE : 0628A011.D06	INSTRUMENT FILE : 0628A011.D07

PARAMETER	UNITS	MS SPIKE ADDED	MSD SPIKE ADDED	SAMPL CONC.	MS CONC.	MSD CONC.	MS RECOVERY (%)	MSD RECOVERY (%)	RPD	RPD LIMIT	QC LIMIT REC.
Chloride as Cl	MG/L	20.0	20.0	41.1	78.2	73.1	186 *	160 *	15.0	20	80 - 120

* Indicate values outside of QC limits

RPD : 0 out of 1 outside limits
Spike Recovery : 2 out of 2 outside limits

CONDUCTIVITY

PDP Analytical Services

1680 Lake Front Circle, Suite B, The Woodlands, TX 77380

DUPLICATE SUMMARY REPORT

SPECIFIC CONDUCTANCE

CLIENT NAME	: MEVATEC	DATE RECEIVED	: 6/2/00
PROJECT NAME	: HELSTF TSA POOL	PRINTED ON	: 6/7/2000
PROJECT NUMBER	: 70B9		
SAMPLE MATRIX	: WATER	METHOD REFERENCE	: EPA-120.1
SAMPLE		SAMPLE DUPLICATE	
SAMPLE ID	:	DUP SAMPLE ID	: 6124.001DUP1
CLIENT SAMPLE ID	: 26030-MW003-0600-QA	CLIENT SAMPLE ID	: 26030-MW003-0600-QA
DATE ANALYZED	: 06/07/00	DATE ANALYZED	: 06/07/00
GC FILE ID	:	INSTRUMENT FILE	:

COMPOUND	SAMPLE CONC.	DUP. CONC.	UNITS	RPD	RPD LIMITS
Conductivity	17.3	17.4	US/CM	0.6	20

* Indicate values outside of QC limits

RPD : 0 out of 1 outside limits

PDP Analytical Services
1680 Lake Front Circle, Suite B, The Woodlands, TX 77380

LCS/LCSD SUMMARY REPORT
SPECIFIC CONDUCTANCE

CLIENT NAME :
PROJECT NAME :
PROJECT NUMBER :

DATE RECEIVED :
PRINTED ON : 7/11/2000 11:02

SAMPLE MATRIX : LIQUID
METHOD REFERENCE : EPA-120.1

LAB CONTROL SAMPLE
LCS SAMPLE ID : COLCS015
CLIENT SAMPLE ID :
DATE ANALYZED : 06/07/00
INSTRUMENT FILE :

LAB CONTROL SAMPLE DUPLICATE
LCSD SAMPLE ID : COLCS015D
CLIENT SAMPLE ID :
DATE ANALYZED : 06/07/00
INSTRUMENT FILE :

PARAMETER	UNIT	LCS TRUE VALUE	LCSD TRUE VALUE	LCS FOUND VALUE	LCSD FOUN VALUE	LCS RECOVER (%)	LCSD RECOVERY (%)	RPD	RPD LIMIT	QC LIMIT REC.
Conductivity	UMHO/	100	100	100	99.1	100	99	1.0	20	80 - 120

* Indicate values outside of QC limits

RPD : 0 out of 1 outside limits
Spike Recovery : 0 out of 2 outside limits

FLUORIDE

PDP Analytical Services
1680 Lake Front Circle, Suite B, The Woodlands, TX 77380

LCS/LCSD SUMMARY REPORT

FLUORIDE BY ION CHROMATOGRAPHY

CLIENT NAME :
PROJECT NAME :
PROJECT NUMBER :

DATE RECEIVED :
PRINTED ON : 7/11/2000 11:06

SAMPLE MATRIX : LIQUID
METHOD REFERENCE : EPA-300

LAB CONTROL SAMPLE
LCS SAMPLE ID : ICLCS23
CLIENT SAMPLE ID :
DATE ANALYZED : 06/27/00
INSTRUMENT FILE : 0627A0C1.D10

LAB CONTROL SAMPLE DUPLICATE
LCSD SAMPLE ID :
CLIENT SAMPLE ID :
DATE ANALYZED :
INSTRUMENT FILE :

PARAMETER	UNIT	LCS TRUE VALUE	LCSD TRUE VALUE	LCS FOUND VALUE	LCSD FOUN VALUE	LCS RECOVER (%)	LCSD RECOVERY (%)	RPD	RPD LIMIT	QC LIMIT REC.
Fluoride as F	MG/L	2.0		1.6		80			20	80 - 120

* Indicate values outside of QC limits

RPD : 0 out of 0 outside limits
Spike Recovery : 0 out of 1 outside limits

METALS DISSOLVED

1680 Lake Front Circle, Suite B, The Woodlands, TX 77380
PDP Analytical Services

LABORATORY REPORT

DISSOLVED METALS

CLIENT NAME :		CLIENT SAMPLE ID :	Prep Blank
PROJECT NAME :		LAB SAMPLE ID :	ICPB1712
PROJECT NUMBER :		DATE RECEIVED :	
DATE SAMPLED :		PRINTED ON :	6/16/2000 9:31
SAMPLE MATRIX :	LIQUID	% MOISTURE :	

ANALYTE	METHOD	DATE PREPARED	DATE ANALYZED	DILU-TION	QUANTITATION LIMIT	RESULT	Q	ANA-LYST
Barium, Dissolved	SW846-6010B	6/14/00	6/14/00	1	0.05 MG/L	ND MG/L		AR
Boron, Dissolved	SW846-6010B	6/14/00	6/14/00	1	0.5 MG/L	ND MG/L		AR
Calcium, Dissolved	SW846-6010B	6/14/00	6/14/00	1	0.1 MG/L	ND MG/L		AR
Iron, Dissolved	SW846-6010B	6/14/00	6/14/00	1	0.2 MG/L	ND MG/L		AR
Lithium, Dissolved	SW846-6010B	6/14/00	6/14/00	1	0.1 MG/L	ND MG/L		AR
Magnesium, Dissolv	SW846-6010B	6/14/00	6/14/00	1	0.1 MG/L	ND MG/L		AR
Manganese, Dissolv	SW846-6010B	6/14/00	6/14/00	1	0.05 MG/L	ND MG/L		AR
Potassium, Dissolv	SW846-6010B	6/14/00	6/14/00	1	0.7 MG/L	ND MG/L		AR
Sodium, Dissolved	SW846-6010B	6/14/00	6/14/00	1	1 MG/L	ND MG/L		AR
Strontium, Dissolv	SW846-6010B	6/14/00	6/14/00	1	0.1 MG/L	ND MG/L		AR

QUALITY ASSURANCE/QUALITY CONTROL

QC BATCH IDs

ANALYTE	QC BATCH ID	ANALYTE	QC BATCH ID	ANALYTE	QC BATCH ID
Barium, Dissolved	ICPB1712	Boron, Dissolved	ICPB1712	Calcium, Dissolved	ICPB1712
Iron, Dissolved	ICPB1712	Lithium, Dissolved	ICPB1712	Magnesium, Dissolved	ICPB1712
Manganese, Dissolved	ICPB1712	Potassium, Dissolved	ICPB1712	Sodium, Dissolved	ICPB1712
Strontium, Dissolved	ICPB1712				

1680 Lake Front Circle, Suite B, The Woodlands, TX 77380
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LABORATORY REPORT

DISSOLVED METALS

CLIENT NAME :		CLIENT SAMPLE ID :	Lab Control Sample
PROJECT NAME :		LAB SAMPLE ID :	ICPL1712
PROJECT NUMBER :		DATE RECEIVED :	
DATE SAMPLED :		PRINTED ON :	6/16/2000 9:41
SAMPLE MATRIX :	LIQUID	% MOISTURE :	

ANALYTE	METHOD	DATE PREPARED	DATE ANALYZED	DILU-TION	QUANTITATION LIMIT	RESULT	Q	ANA-LYST
Barium, Dissolved	SW846-6010B	6/14/00	6/14/00	1	0.05 MG/L	4.70 MG/L		AR
Boron, Dissolved	SW846-6010B	6/14/00	6/14/00	1	0.5 MG/L	2.34 MG/L		AR
Calcium, Dissolved	SW846-6010B	6/14/00	6/14/00	1	0.1 MG/L	12 MG/L		AR
Iron, Dissolved	SW846-6010B	6/14/00	6/14/00	1	0.2 MG/L	2.4 MG/L		AR
Lithium, Dissolved	SW846-6010B	6/14/00	6/14/00	1	0.1 MG/L	0.47 MG/L		AR
Magnesium, Dissolv	SW846-6010B	6/14/00	6/14/00	1	0.1 MG/L	12 MG/L		AR
Manganese, Dissolv	SW846-6010B	6/14/00	6/14/00	1	0.05 MG/L	1.2 MG/L		AR
Potassium, Dissolv	SW846-6010B	6/14/00	6/14/00	1	0.7 MG/L	2.2 MG/L		AR
Sodium, Dissolved	SW846-6010B	6/14/00	6/14/00	1	1 MG/L	11 MG/L		AR
Strontium, Dissolv	SW846-6010B	6/14/00	6/14/00	1	0.1 MG/L	0.45 MG/L		AR

QUALITY ASSURANCE/QUALITY CONTROL

QC BATCH IDs

ANALYTE	QC BATCH ID	ANALYTE	QC BATCH ID	ANALYTE	QC BATCH ID
Barium, Dissolved	ICPB1712	Boron, Dissolved	ICPB1712	Calcium, Dissolved	ICPB1712
Iron, Dissolved	ICPB1712	Lithium, Dissolved	ICPB1712	Magnesium, Dissolved	ICPB1712
Manganese, Dissolved	ICPB1712	Potassium, Dissolved	ICPB1712	Sodium, Dissolved	ICPB1712
Strontium, Dissolved	ICPB1712				

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PDP Analytical Services

LABORATORY REPORT

DISSOLVED METALS

CLIENT NAME :		CLIENT SAMPLE ID :	Lab Control Sample
PROJECT NAME :		LAB SAMPLE ID :	ICPL1712D
PROJECT NUMBER :		DATE RECEIVED :	
DATE SAMPLED :		PRINTED ON :	6/16/2000 9:41
SAMPLE MATRIX :	LIQUID	% MOISTURE :	

ANALYTE	METHOD	DATE PREPARED	DATE ANALYZED	DILU-TION	QUANTITATION LIMIT	RESULT	Q	ANA-LYST
Barium, Dissolved	SW846-6010B	6/14/00	6/14/00	1	0.05 MG/L	4.71 MG/L		AR
Boron, Dissolved	SW846-6010B	6/14/00	6/14/00	1	0.5 MG/L	2.37 MG/L		AR
Calcium, Dissolved	SW846-6010B	6/14/00	6/14/00	1	0.1 MG/L	12 MG/L		AR
Iron, Dissolved	SW846-6010B	6/14/00	6/14/00	1	0.2 MG/L	2.3 MG/L		AR
Lithium, Dissolved	SW846-6010B	6/14/00	6/14/00	1	0.1 MG/L	0.46 MG/L		AR
Magnesium, Dissolv	SW846-6010B	6/14/00	6/14/00	1	0.1 MG/L	12 MG/L		AR
Manganese, Dissolv	SW846-6010B	6/14/00	6/14/00	1	0.05 MG/L	1.2 MG/L		AR
Potassium, Dissolv	SW846-6010B	6/14/00	6/14/00	1	0.7 MG/L	2.2 MG/L		AR
Sodium, Dissolved	SW846-6010B	6/14/00	6/14/00	1	1 MG/L	11 MG/L		AR
Strontium, Dissolv	SW846-6010B	6/14/00	6/14/00	1	0.1 MG/L	0.45 MG/L		AR

QUALITY ASSURANCE/QUALITY CONTROL

QC BATCH IDs

ANALYTE	QC BATCH ID	ANALYTE	QC BATCH ID	ANALYTE	QC BATCH ID
Barium, Dissolved	ICPB1712	Boron, Dissolved	ICPB1712	Calcium, Dissolved	ICPB1712
Iron, Dissolved	ICPB1712	Lithium, Dissolved	ICPB1712	Magnesium, Dissolved	ICPB1712
Manganese, Dissolved	ICPB1712	Potassium, Dissolved	ICPB1712	Sodium, Dissolved	ICPB1712
Strontium, Dissolved	ICPB1712				

PDP Analytical Services
1680 Lake Front Circle, Suite B, The Woodlands, TX 77380

LCS/LCSD SUMMARY REPORT
DISSOLVED METALS

CLIENT NAME :
PROJECT NAME :
PROJECT NUMBER :

DATE RECEIVED :
PRINTED ON :6/16/2000 9:41

SAMPLE MATRIX : LIQUID

LAB CONTROL SAMPLE
LCS SAMPLE ID : ICPL1712
CLIENT SAMPLE ID :

LAB CONTROL SAMPLE DUPLICATE
LCSD SAMPLE ID : ICPL1712D
CLIENT SAMPLE ID :

COMPOUND	METHOD REFERENCE	UNITS	LCS TRUE VALUE	LCSD TRUE VALUE	LCS FOUND VALUE	LCSD FOUN VALUE	LCS RECOVER (%)	LCSD RECOVERY (%)	RPD	RPD LIMIT	QC LIMIT REC
Barium, Dissolved	SW846-6010B	MG/L	5.00	5.00	4.70	4.71	94	94	0.0	20	80 - 120
Boron, Dissolved	SW846-6010B	MG/L	2.50	2.50	2.34	2.37	94	95	1.1	20	80 - 120
Calcium, Dissolved	SW846-6010B	MG/L	12	12	12	12	100	100	0.0	20	80 - 120
Iron, Dissolved	SW846-6010B	MG/L	2.50	2.50	2.37	2.35	95	94	1.1	20	80 - 120
Lithium, Dissolved	SW846-6010B	MG/L	0.50	0.50	0.47	0.46	94	92	2.2	20	80 - 120
Magnesium, Dissolve	SW846-6010B	MG/L	12	12	12	12	100	100	0.0	20	80 - 120
Manganese, Dissolve	SW846-6010B	MG/L	1.25	1.25	1.19	1.19	95	95	0.0	20	80 - 120
Potassium, Dissolve	SW846-6010B	MG/L	2.5	2.5	2.2	2.2	88	88	0.0	20	80 - [illegible]
Sodium, Dissolved	SW846-6010B	MG/L	12	12	11	11	92	92	0.0	20	80 - 1[illegible]
Strontium, Dissolve	SW846-6010B	MG/L	0.50	0.50	0.45	0.45	90	90	0.0	20	80 - 120

* Indicate values outside of QC limits

RPD : 0 out of 10 outside limits

Spike Recovery : 0 out of 20 outside limits

1680 Lake Front Circle, Suite B, The Woodlands, TX 77380
PDP Analytical Services

LABORATORY REPORT

DISSOLVED METALS

CLIENT NAME :	MEVATEC	CLIENT SAMPLE ID :	26030-MW003-0600-QAMS
PROJECT NAME :	HELSTF TSA POOL	LAB SAMPLE ID :	6124.001MS
PROJECT NUMBER :	70B9	DATE RECEIVED :	6/2/00
DATE SAMPLED :	6/1/00	PRINTED ON :	6/16/2000 9:34
SAMPLE MATRIX :	WATER	% MOISTURE :	

ANALYTE	METHOD	DATE PREPARED	DATE ANALYZED	DILU-TION	QUANTITATION LIMIT	RESULT	Q	ANA-LYST
Barium, Dissolved	SW846-6010B	6/14/00	6/14/00	1	0.05 MG/L	1.71 MG/L		AR
Boron, Dissolved	SW846-6010B	6/14/00	6/14/00	1	0.5 MG/L	2.80 MG/L		AR
Calcium, Dissolved	SW846-6010B	6/14/00	6/14/00	1	0.1 MG/L	410 MG/L		AR
Iron, Dissolved	SW846-6010B	6/14/00	6/14/00	1	0.2 MG/L	0.89 MG/L		AR
Lithium, Dissolved	SW846-6010B	6/14/00	6/14/00	1	0.1 MG/L	0.54 MG/L		AR
Magnesium, Dissolv	SW846-6010B	6/14/00	6/14/00	1	0.1 MG/L	290 MG/L		AR
Manganese, Dissolv	SW846-6010B	6/14/00	6/14/00	1	0.05 MG/L	0.55 MG/L		AR
Potassium, Dissolv	SW846-6010B	6/14/00	6/14/00	1	0.7 MG/L	38 MG/L		AR
Sodium, Dissolved	SW846-6010B	6/14/00	6/14/00	1	1 MG/L	3000 MG/L		AR
Strontium, Dissolv	SW846-6010B	6/14/00	6/14/00	1	0.1 MG/L	13 MG/L		AR

QUALITY ASSURANCE/QUALITY CONTROL

QC BATCH IDs

ANALYTE	QC BATCH ID	ANALYTE	QC BATCH ID	ANALYTE	QC BATCH ID
Barium, Dissolved	ICPB1712	Boron, Dissolved	ICPB1712	Calcium, Dissolved	ICPB1712
Iron, Dissolved	ICPB1712	Lithium, Dissolved	ICPB1712	Magnesium, Dissolved	ICPB1712
Manganese, Dissolved	ICPB1712	Potassium, Dissolved	ICPB1712	Sodium, Dissolved	ICPB1712
Strontium, Dissolved	ICPB1712				

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LABORATORY REPORT

DISSOLVED METALS

CLIENT NAME :	MEVATEC	CLIENT SAMPLE ID :	26030-MW003-0600-QAMSD
PROJECT NAME :	HELSTF TSA POOL	LAB SAMPLE ID :	6124.001MSD
PROJECT NUMBER :	70B9	DATE RECEIVED :	6/2/00
DATE SAMPLED :	6/1/00	PRINTED ON :	6/16/2000 9:34
SAMPLE MATRIX :	WATER	% MOISTURE :	

ANALYTE	METHOD	DATE PREPARED	DATE ANALYZED	DILU-TION	QUANTITATION LIMIT	RESULT	Q	ANA-LYST
Barium, Dissolved	SW846-6010B	6/14/00	6/14/00	1	0.05 MG/L	1.70 MG/L		AR
Boron, Dissolved	SW846-6010B	6/14/00	6/14/00	1	0.5 MG/L	2.86 MG/L		AR
Calcium, Dissolved	SW846-6010B	6/14/00	6/14/00	1	0.1 MG/L	430 MG/L		AR
Iron, Dissolved	SW846-6010B	6/14/00	6/14/00	1	0.2 MG/L	0.88 MG/L		AR
Lithium, Dissolved	SW846-6010B	6/14/00	6/14/00	1	0.1 MG/L	0.53 MG/L		AR
Magnesium, Dissolv	SW846-6010B	6/14/00	6/14/00	1	0.1 MG/L	300 MG/L		AR
Manganese, Dissolv	SW846-6010B	6/14/00	6/14/00	1	0.05 MG/L	0.54 MG/L		AR
Potassium, Dissolv	SW846-6010B	6/14/00	6/14/00	1	0.7 MG/L	36 MG/L		AR
Sodium, Dissolved	SW846-6010B	6/14/00	6/14/00	1	1 MG/L	3100 MG/L		AR
Strontium, Dissolv	SW846-6010B	6/14/00	6/14/00	1	0.1 MG/L	13 MG/L		AR

QUALITY ASSURANCE/QUALITY CONTROL

QC BATCH IDs

ANALYTE	QC BATCH ID	ANALYTE	QC BATCH ID	ANALYTE	QC BATCH ID
Barium, Dissolved	ICPB1712	Boron, Dissolved	ICPB1712	Calcium, Dissolved	ICPB1712
Iron, Dissolved	ICPB1712	Lithium, Dissolved	ICPB1712	Magnesium, Dissolved	ICPB1712
Manganese, Dissolved	ICPB1712	Potassium, Dissolved	ICPB1712	Sodium, Dissolved	ICPB1712
Strontium, Dissolved	ICPB1712				

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MS/MSD SUMMARY REPORT

DISSOLVED METALS

CLIENT NAME : MEVATEC
PROJECT NAME : HELSTF TSA POOL
PROJECT NUMBER : 70B9

DATE RECEIVED : 6/2/00
PRINTED ON : 6/16/2000 9:34

SAMPLE MATRIX : WATER

SAMPLE	MATRIX SPIKE	MATRIX SPIKE DUPLICATE
SAMPLE ID : 6124.001	MS SAMPLE ID : 6124.001MS	MSD SAMPLE ID : 6124.001MSD
CLIENT SAMPLE I : 26030-MW003-0600-QA	CLIENT SAMPLE I : 26030-MW003-0600-QA	CLIENT SAMPLE I : 26030-MW003-0600-QA

COMPOUND	METHOD REFERENCE	UNITS	MS SPIKE ADDED	MSD SPIKE ADDED	SAMPL CONC.	MS CONC.	MSD CONC.	MS RECOVER (%)	MSD RECOVER (%)	RPD	RPD LIMI	QC LIMIT REC
Barium, Dissolved	SW846-6010B	MG/L	2.00	2.00	0	1.71	1.70	86	85	1.2	25	75 - 125
Boron, Dissolved	SW846-6010B	MG/L	2.50	2.50	0.773	2.80	2.86	81	83	2.4	25	75 - 125
Iron, Dissolved	SW846-6010B	MG/L	1.00	1.00	0	0.889	0.879	89	88	1.1	25	75 - 125
Lithium, Dissolved	SW846-6010B	MG/L	0.50	0.50	0	0.54	0.53	108	106	1.9	25	75 - 125
Manganese, Dissolve	SW846-6010B	MG/L	0.500	0.500	0.07	0.551	0.539	96	94	2.1	25	75 - 125
Strontium, Dissolve	SW846-6010B	MG/L	0.50	0.50	12	13	13	200	200	0.0	25	75 - 125

* Indicate values outside of QC limits

RPD : 0 out of 6 outside limits

Spike Recovery : 2 out of 12 outside limits

1680 Lake Front Circle, Suite B, The Woodlands, TX 77380
PDP Analytical Services

LABORATORY REPORT

DISSOLVED METALS

CLIENT NAME :	MEVATEC	CLIENT SAMPLE ID :	26030-MW003-0600-QAA
PROJECT NAME :	HELSTF TSA POOL	LAB SAMPLE ID :	6124.001A1
PROJECT NUMBER :	70B9	DATE RECEIVED :	6/2/00
DATE SAMPLED :	6/1/00	PRINTED ON :	6/16/2000 9:35
SAMPLE MATRIX :	WATER	% MOISTURE :	

ANALYTE	METHOD	DATE PREPARED	DATE ANALYZED	DILU-TION	QUANTITATION LIMIT	RESULT	Q	ANA-LYST
Barium, Dissolved	SW846-6010B	6/14/00	6/14/00	1	0.05 MG/L	1.74 MG/L		AR
Boron, Dissolved	SW846-6010B	6/14/00	6/14/00	1	0.5 MG/L	3.51 MG/L		AR
Calcium, Dissolved	SW846-6010B	6/14/00	6/14/00	1	0.1 MG/L	410 MG/L		AR
Iron, Dissolved	SW846-6010B	6/14/00	6/14/00	1	0.2 MG/L	0.90 MG/L		AR
Lithium, Dissolved	SW846-6010B	6/14/00	6/14/00	1	0.1 MG/L	0.64 MG/L		AR
Magnesium, Dissolv	SW846-6010B	6/14/00	6/14/00	1	0.1 MG/L	280 MG/L		AR
Manganese, Dissolv	SW846-6010B	6/14/00	6/14/00	1	0.05 MG/L	0.54 MG/L		AR
Potassium, Dissolv	SW846-6010B	6/14/00	6/14/00	1	0.7 MG/L	42 MG/L		AR
Sodium, Dissolved	SW846-6010B	6/14/00	6/14/00	1	1 MG/L	3000 MG/L		AR
Strontium, Dissolv	SW846-6010B	6/14/00	6/14/00	1	0.1 MG/L	13 MG/L		AR

QUALITY ASSURANCE/QUALITY CONTROL

QC BATCH IDs

ANALYTE	QC BATCH ID	ANALYTE	QC BATCH ID	ANALYTE	QC BATCH ID
Barium, Dissolved	ICPB1712	Boron, Dissolved	ICPB1712	Calcium, Dissolved	ICPB1712
Iron, Dissolved	ICPB1712	Lithium, Dissolved	ICPB1712	Magnesium, Dissolved	ICPB1712
Manganese, Dissolved	ICPB1712	Potassium, Dissolved	ICPB1712	Sodium, Dissolved	ICPB1712
Strontium, Dissolved	ICPB1712				

PDP Analytical Services
1680 Lake Front Circle, Suite B, The Woodlands, TX 77380

POST DIGEST SPIKE RECOVERY SUMMARY REPORT

DISSOLVED METALS

CLIENT NAME : MEVATEC
PROJECT NAME : HELSTF TSA POOL
PROJECT NUMBER : 70B9

DATE RECEIVED : 6/2/00
PRINTED ON : 6/16/2000 9:35

SAMPLE MATRIX : WATER

SAMPLE
SAMPLE ID : 6124.001
CLIENT SAMPLE ID : 26030-MW003-0600-QA

POST DIGEST SPIKE SAMPLE
POST DIGEST SAMPLE ID : 6124.001A1
CLIENT SAMPLE ID : 26030-MW003-0600-QA

COMPOUND	METHOD REFERENCE	UNITS	SPIKE ADDED	SAMPLE CONC.	SPIKED SAMPLE CONC.	PERCENT RECOVERY (%)	QC LIMIT (%)
Barium, Dissolved	SW846-6010B	MG/L	2.00	0	1.74	87	75 - 125
Boron, Dissolved	SW846-6010B	MG/L	2.50	0.773	3.51	109	75 - 125
Iron, Dissolved	SW846-6010B	MG/L	1.00	0	0.897	90	75 - 125
Lithium, Dissolved	SW846-6010B	MG/L	0.50	0	0.64	128	75 - 125
Manganese, Dissolved	SW846-6010B	MG/L	0.500	0.07	0.542	94	75 - 125
Strontium, Dissolved	SW846-6010B	MG/L	0.50	12	13	200	75 - 125

* Indicate values outside of QC limits

Spike Recovery : 2 out of 6 outside limits

1680 Lake Front Circle, Suite B, The Woodlands, TX 77380
PDP Analytical Services

LABORATORY REPORT

DISSOLVED METALS

CLIENT NAME :	MEVATEC	CLIENT SAMPLE ID :	26030-MW003-0600-QAL
PROJECT NAME :	HELSTF TSA POOL	LAB SAMPLE ID :	6124.001L1
PROJECT NUMBER :	70B9	DATE RECEIVED :	6/2/00
DATE SAMPLED :	6/1/00	PRINTED ON :	6/16/2000 9:37
SAMPLE MATRIX :	WATER	% MOISTURE :	

ANALYTE	METHOD	DATE PREPARED	DATE ANALYZED	DILU-TION	QUANTITATION LIMIT	RESULT	Q	ANA-LYST
Barium, Dissolved	SW846-6010B	6/14/00	6/14/00	5	0.25 MG/L	ND MG/L		AR
Boron, Dissolved	SW846-6010B	6/14/00	6/14/00	5	2.5 MG/L	ND MG/L		AR
Calcium, Dissolved	SW846-6010B	6/14/00	6/14/00	5	0.5 MG/L	440 MG/L		AR
Iron, Dissolved	SW846-6010B	6/14/00	6/14/00	5	1 MG/L	ND MG/L		AR
Lithium, Dissolved	SW846-6010B	6/14/00	6/14/00	5	0.5 MG/L	ND MG/L		AR
Magnesium, Dissolv	SW846-6010B	6/14/00	6/14/00	5	0.5 MG/L	290 MG/L		AR
Manganese, Dissolv	SW846-6010B	6/14/00	6/14/00	5	0.25 MG/L	ND MG/L		AR
Potassium, Dissolv	SW846-6010B	6/14/00	6/14/00	5	3.5 MG/L	24 MG/L		AR
Sodium, Dissolved	SW846-6010B	6/14/00	6/14/00	5	5 MG/L	2300 MG/L		AR
Strontium, Dissolv	SW846-6010B	6/14/00	6/14/00	5	0.5 MG/L	9.8 MG/L		AR

QUALITY ASSURANCE/QUALITY CONTROL

QC BATCH IDs

ANALYTE	QC BATCH ID	ANALYTE	QC BATCH ID	ANALYTE	QC BATCH ID
Barium, Dissolved	ICPB1712	Boron, Dissolved	ICPB1712	Calcium, Dissolved	ICPB1712
Iron, Dissolved	ICPB1712	Lithium, Dissolved	ICPB1712	Magnesium, Dissolved	ICPB1712
Manganese, Dissolved	ICPB1712	Potassium, Dissolved	ICPB1712	Sodium, Dissolved	ICPB1712
Strontium, Dissolved	ICPB1712				

PDP Analytical Services
1680 Lake Front Circle, Suite B, The Woodlands, TX 77380

SERIAL DILUTION SUMMARY REPORT

DISSOLVED METALS

CLIENT NAME : MEVATEC
PROJECT NAME : HELSTF TSA POOL
PROJECT NUMBER : 70B9

DATE RECEIVED : 6/2/00
PRINTED ON : 6/16/2000 9:37

SAMPLE MATRIX : WATER

SAMPLE
SAMPLE ID : 6124.001
CLIENT SAMPLE ID : 26030-MW003-0600-QA

SERIAL DILUTION SAMPLE
SD SAMPLE ID : 6124.001L1
CLIENT SAMPLE ID : 26030-MW003-0600-QA

COMPOUND	METHOD REFERENCE	UNITS	INITIAL SAMPLE CONC.	SERIAL DILUTION CONC.	PERCENT DIFFERENCE (%)	QC LIMIT (%)
Barium, Dissolved	SW846-6010B	MG/L	0	0	0.0	10
Boron, Dissolved	SW846-6010B	MG/L	0.773	0	100.0	10
Calcium, Dissolved	SW846-6010B	MG/L	410	440	7.3	10
Iron, Dissolved	SW846-6010B	MG/L	0	0	0.0	10
Lithium, Dissolved	SW846-6010B	MG/L	0	0	0.0	10
Magnesium, Dissolved	SW846-6010B	MG/L	280	290	3.6	10
Manganese, Dissolved	SW846-6010B	MG/L	0.07	0	100.0	10
Potassium, Dissolved	SW846-6010B	MG/L	36	24	33.3	10
Sodium, Dissolved	SW846-6010B	MG/L	2400	2300	4.2	10
Strontium, Dissolved	SW846-6010B	MG/L	12	9.8	18.3	10

* Indicate values outside of QC limits

Percent Difference : 4 out of 10 outside limits

NITRATE/NITRITE

PDP Analytical Services
1680 Lake Front Circle, Suite B, The Woodlands, TX 77380

LCS/LCSD SUMMARY REPORT
NITRATE BY ION CHROMATOGRAPHY

CLIENT NAME :
PROJECT NAME :
PROJECT NUMBER :

DATE RECEIVED :
PRINTED ON : 7/11/2000 11:08

SAMPLE MATRIX : LIQUID
METHOD REFERENCE : EPA-300

LAB CONTROL SAMPLE
LCS SAMPLE ID : ICLCS23
CLIENT SAMPLE ID :
DATE ANALYZED : 06/27/00
INSTRUMENT FILE : 0627A0C1.D10

LAB CONTROL SAMPLE DUPLICATE
LCSD SAMPLE ID :
CLIENT SAMPLE ID :
DATE ANALYZED :
INSTRUMENT FILE :

PARAMETER	UNIT	LCS TRUE VALUE	LCSD TRUE VALUE	LCS FOUND VALUE	LCSD FOUN VALUE	LCS RECOVER (%)	LCSD RECOVERY (%)	RPD	RPD LIMIT	QC LIMIT REC.
Nitrate (as N)	MG/L	2.0		1.7		85			20	80 - 120

* Indicate values outside of QC limits

RPD : 0 out of 0 outside limits
Spike Recovery : 0 out of 1 outside limits

pH

PDP Analytical Services

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DUPLICATE SUMMARY REPORT

pH

CLIENT NAME	: MEVATEC	DATE RECEIVED	: 6/2/00
PROJECT NAME	: HELSTF TSA POOL	PRINTED ON	: 6/7/2000
PROJECT NUMBER	: 70B9		
SAMPLE MATRIX	: WATER	METHOD REFERENCE	: EPA-150.1
SAMPLE		SAMPLE DUPLICATE	
SAMPLE ID	:	DUP SAMPLE ID	: 6124.001DUP1
CLIENT SAMPLE ID	: 26030-MW003-0600-QA	CLIENT SAMPLE ID	: 26030-MW003-0600-QA
DATE ANALYZED	: 06/07/00	DATE ANALYZED	: 06/07/00
GC FILE ID	:	INSTRUMENT FILE	:

COMPOUND	SAMPLE CONC.	DUP. CONC.	UNITS	RPD	RPD LIMITS
pH	7.68	7.69	UNITS	0.1	20

* Indicate values outside of QC limits

RPD : 0 out of 1 outside limits

PDP Analytical Services
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LCS/LCSD SUMMARY REPORT

pH

CLIENT NAME :
PROJECT NAME :
PROJECT NUMBER :

DATE RECEIVED :
PRINTED ON :6/7/2000 16:21

SAMPLE MATRIX :LIQUID
METHOD REFERENCE :EPA-150.1

LAB CONTROL SAMPLE
LCS SAMPLE ID :PHLCS071
CLIENT SAMPLE ID :
DATE ANALYZED :06/07/00
INSTRUMENT FILE :

LAB CONTROL SAMPLE DUPLICATE
LCSD SAMPLE ID :PHLCS071D
CLIENT SAMPLE ID :
DATE ANALYZED :06/07/00
INSTRUMENT FILE :

PARAMETER	UNIT	LCS TRUE VALUE	LCSD TRUE VALUE	LCS FOUND VALUE	LCSD FOUN VALUE	LCS RECOVER (%)	LCSD RECOVERY (%)	RPD	RPD LIMIT	QC LIMIT REC.
pH	UNITS	9.00	9.00	8.84	8.83	98	98	0.0	0	98 - 102

* Indicate values outside of QC limits

RPD : 0 out of 1 outside limits
Spike Recovery : 0 out of 2 outside limits

METALS DISSOLVED - Uranium

ENVIRO-TEST QC REPORT

Workorder #: L1550

QC Type: BLANK

Lab QC Number:		Result	Qualifier	Units	Limit	Analyzed
WG6499-1						
AG-REC-CA	Silver (Ag)	0.00097		mg/L	0.00006	16-JUN-00
AG-TOT-CA	Silver (Ag)	0.00097		mg/L	0.00006	16-JUN-00
AG-TOT-LOW-CA	Silver (Ag)	0.00097		mg/L	0.00006	16-JUN-00
AS-TOT-CA	Arsenic (As)	<0.00004		mg/L	0.00004	16-JUN-00
AS-TOT-LOW-CA	Arsenic (As)	<0.00004		mg/L	0.00004	16-JUN-00
BA-TOT-CA	Barium (Ba)	0.00085		mg/L	0.00003	16-JUN-00
CD-TOT-CA	Cadmium (Cd)	0.00008		mg/L	0.00004	16-JUN-00
CR-TOT-CA	Chromium (Cr)	0.0001		mg/L	0.0001	16-JUN-00
CR-TOT-REC-CA	Chromium (Cr)	0.00014		mg/L	0.0001	16-JUN-00
CU-TOT-CA	Copper (Cu)	0.00037		mg/L	0.00009	16-JUN-00
NI-TOT-CA	Nickel (Ni)	0.00048		mg/L	0.00007	16-JUN-00
PB-TOT-CA	Lead (Pb)	0.00919		mg/L	0.00004	16-JUN-00
SE-TOT-CA	Selenium (Se)	<0.0001		mg/L	0.0001	16-JUN-00
U-TOT-LOW-CA	Uranium (U)	<0.00002		mg/L	0.00002	16-JUN-00
ZN-TOT-CA	Zinc (Zn)	0.0181		mg/L	0.0003	16-JUN-00
WG6501-1						
AG-EXT-CA	Silver (Ag)	0.001		mg/L	0.001	16-JUN-00
AL-TOT-CA	Aluminum (Al)	0.0068		mg/L	0.0001	16-JUN-00
AS-EXT-CA	Arsenic (As)	<0.0006		mg/L	0.0006	16-JUN-00
BA-EXT-CA	Barium (Ba)	<0.0006		mg/L	0.0006	16-JUN-00
CD-EXT-CA	Cadmium (Cd)	<0.0007		mg/L	0.0007	16-JUN-00
CR-EXT-CA	Chromium (Cr)	<0.002		mg/L	0.002	16-JUN-00
CU-EXT-CA	Copper (Cu)	<0.001		mg/L	0.001	16-JUN-00
ETL-ROU-METAL-CA	Calcium (Ca)	0.04		mg/L	0.01	16-JUN-00
	Potassium (K)	<0.007		mg/L	0.007	16-JUN-00
	Magnesium (Mg)	<0.002		mg/L	0.002	16-JUN-00
	Sodium (Na)	0		mg/L	0	16-JUN-00
FE-TOT-CA	Iron (Fe)	<0.005		mg/L	0.005	16-JUN-00
HG-EXT-HYD-CA	Mercury, (Hg)-Extractable	<0.0006		mg/L	0.0006	16-JUN-00
MN-DIS-CA	Manganese (Mn)	0.00005		mg/L	0.00004	16-JUN-00
NI-EXT-CA	Nickel (Ni)	<0.001		mg/L	0.001	16-JUN-00
PB-EXT-CA	Lead (Pb)	<0.0004		mg/L	0.0004	16-JUN-00
SB-DIS-LOW-CA	Antimony (Sb)	0.00003		mg/L	0.00002	16-JUN-00
SE-EXT-CA	Selenium (Se)	<0.002		mg/L	0.002	16-JUN-00
SI-TOT-CA	Silicon (Si)	0.009		mg/L	0.001	16-JUN-00
TH-TOT-CA	Thorium (Th)	<0.00002		mg/L	0.00002	16-JUN-00
TI-TOT-CA	Titanium (Ti)	0.00011		mg/L	0.00001	16-JUN-00

Limit of Liability: Although care and due diligence is taken in the performance of our services, our liability in all ca
limited to re-analysis at our expense or refunding the analytical costs charged for the work performed.

ENVIRO-TEST QC REPORT

Workorder #: L1550

TL-DIS-LOW-CA	Thallium (Tl)	0.00049	mg/L	0.00002	16-JUN-00
U-TOT-CA	Uranium (U)	<0.00002	mg/L	0.00002	16-JUN-00
V-TOT-CA	Vanadium (V)	<0.00005	mg/L	0.00005	16-JUN-00
ZN-EXT-CA	Zinc (Zn)	<0.003	mg/L	0.003	16-JUN-00
ZR-TOT-CA	Zirconium (Zr)	0.00003	mg/L	0.00002	16-JUN-00

QC Type: DUP

Lab QC Number:		RPD	Qualifier	Limit %	Analyzed
WG6499-3					
U-TOT-LOW-CA	Uranium (U)	200	RPD-NA	1	16-JUN-00
WG6501-3					
AG-EXT-CA	Silver (Ag)	N/A	RPD-NA	1	16-JUN-00
AS-EXT-CA	Arsenic (As)	N/A	RPD-NA	1	16-JUN-00
BA-EXT-CA	Barium (Ba)	N/A	RPD-NA	1	16-JUN-00
CD-EXT-CA	Cadmium (Cd)	N/A	RPD-NA	1	16-JUN-00
CR-EXT-CA	Chromium (Cr)	N/A	RPD-NA	1	16-JUN-00
HG-EXT-HYD-CA	Mercury, (Hg)-Extractable	200		3	16-JUN-00
PB-EXT-CA	Lead (Pb)	N/A	RPD-NA	1	16-JUN-00
SE-EXT-CA	Selenium (Se)	N/A	RPD-NA	1	16-JUN-00
WG6501-5					
ETL-ROU-METAL-CA	Calcium (Ca)	197		1	16-JUN-00
	Potassium (K)	69		1	16-JUN-00
	Magnesium (Mg)	170		1	16-JUN-00
	Sodium (Na)	187		1	16-JUN-00
MN-DIS-CA	Manganese (Mn)	200		1	16-JUN-00

QC Type: LCS

Lab QC Number:		% Recovery	Qualifier	Limit %	Analyzed
WG6499-2					
AG-REC-CA	Silver (Ag)	93		N/A	16-JUN-00
AG-TOT-CA	Silver (Ag)	93		N/A	16-JUN-00
AG-TOT-LOW-CA	Silver (Ag)	93		N/A	16-JUN-00
AS-TOT-CA	Arsenic (As)	99		N/A	16-JUN-00
AS-TOT-LOW-CA	Arsenic (As)	99		N/A	16-JUN-00
BA-TOT-CA	Barium (Ba)	95		N/A	16-JUN-00

Limit of Liability: Although care and due diligence is taken in the performance of our services, our liability in all cases is limited to re-analysis at our expense or refunding the analytical costs charged for the work performed.

ENVIRO-TEST QC REPORT

Workorder #: L1550

CD-TOT-CA	Cadmium (Cd)	101	N/A	16-JUN-00
CR-TOT-CA	Chromium (Cr)	98	N/A	16-JUN-00
CR-TOT-REC-CA	Chromium (Cr)	98	N/A	16-JUN-00
CU-TOT-CA	Copper (Cu)	103	N/A	16-JUN-00
NI-TOT-CA	Nickel (Ni)	95	N/A	16-JUN-00
PB-TOT-CA	Lead (Pb)	104	N/A	16-JUN-00
SE-TOT-CA	Selenium (Se)	102	N/A	16-JUN-00
U-TOT-LOW-CA	Uranium (U)	103	N/A	16-JUN-00
ZN-TOT-CA	Zinc (Zn)	105	N/A	16-JUN-00
WG6501-2				
AG-EXT-CA	Silver (Ag)	131	N/A	16-JUN-00
AL-TOT-CA	Aluminum (Al)	81.97	N/A	16-JUN-00
AS-EXT-CA	Arsenic (As)	98	N/A	16-JUN-00
BA-EXT-CA	Barium (Ba)	99	N/A	16-JUN-00
CD-EXT-CA	Cadmium (Cd)	98	N/A	16-JUN-00
CR-EXT-CA	Chromium (Cr)	97	N/A	16-JUN-00
CU-EXT-CA	Copper (Cu)	107	N/A	16-JUN-00
ETL-ROU-METAL-CA	Calcium (Ca)	98	N/A	16-JUN-00
	Potassium (K)	99	N/A	16-JUN-00
	Magnesium (Mg)	92	N/A	16-JUN-00
	Sodium (Na)	96	N/A	16-JUN-00
FE-TOT-CA	Iron (Fe)	103.703	N/A	16-JUN-00
HG-EXT-HYD-CA	Mercury, (Hg)-Extractable	103	N/A	16-JUN-00
MN-DIS-CA	Manganese (Mn)	100	N/A	16-JUN-00
NI-EXT-CA	Nickel (Ni)	105	N/A	16-JUN-00
PB-EXT-CA	Lead (Pb)	97	N/A	16-JUN-00
SB-DIS-LOW-CA	Antimony (Sb)	93	N/A	16-JUN-00
SE-EXT-CA	Selenium (Se)	98	N/A	16-JUN-00
SI-TOT-CA	Silicon (Si)	85.915	N/A	16-JUN-00
TH-TOT-CA	Thorium (Th)	99.42	N/A	16-JUN-00
TI-TOT-CA	Titanium (Ti)	96.35	N/A	16-JUN-00
TL-DIS-LOW-CA	Thallium (Tl)	97	N/A	16-JUN-00
U-TOT-CA	Uranium (U)	101.3	N/A	16-JUN-00
V-TOT-CA	Vanadium (V)	N/A	N/A	16-JUN-00
ZN-EXT-CA	Zinc (Zn)	107	N/A	16-JUN-00
ZR-TOT-CA	Zirconium (Zr)	N/A	N/A	16-JUN-00

Limit of Liability: Although care and due diligence is taken in the performance of our services, our liability in all cases is limited to re-analysis at our expense or refunding the analytical costs charged for the work performed.

ENVIRO-TEST QC REPORT

Workorder #: L1550

QC Type: MS

Lab QC Number:		% Recovery	Qualifier	Limit %	Analyzed
WG6499-4					
U-TOT-LOW-CA	Uranium (U)	128		N/A	16-JUN-00
WG6501-4					
AG-EXT-CA	Silver (Ag)	125		N/A	16-JUN-00
AS-EXT-CA	Arsenic (As)	99		N/A	16-JUN-00
BA-EXT-CA	Barium (Ba)	97		N/A	16-JUN-00
CD-EXT-CA	Cadmium (Cd)	96		N/A	16-JUN-00
CR-EXT-CA	Chromium (Cr)	95		N/A	16-JUN-00
HG-EXT-HYD-CA	Mercury, (Hg)-Extractable	105		N/A	16-JUN-00
PB-EXT-CA	Lead (Pb)	96		N/A	16-JUN-00
SE-EXT-CA	Selenium (Se)	99		N/A	16-JUN-00
WG6501-6					
ETL-ROU-METAL-CA	Calcium (Ca)	56		N/A	16-JUN-00
	Potassium (K)	101		N/A	16-JUN-00
	Magnesium (Mg)	96		N/A	16-JUN-00
	Sodium (Na)	37		N/A	16-JUN-00
MN-DIS-CA	Manganese (Mn)	90		N/A	16-JUN-00

Limit of Liability: Although care and due diligence is taken in the performance of our services, our liability in all cases is limited to re-analysis at our expense or refunding the analytical costs charged for the work performed.

ENVIRO-TEST QC REPORT

Workorder #: L1550

Legend:

QC Type	Description
BLANK	Laboratory Blank
BS	Blank Spike
BSD	Blank Spike Duplicate
CCB	Continuing Calibration Blank
CCV	Cont. Cal. Verification
DUP	Duplicate
ICB	Instrument Blank
ICV	Instument Calibration Verification
INST BLK	Instrument Blank
LCS	Laboratory Control Spike
LCSD	Lab Control Spike Duplicate
MS	Matrix Spike
MSD	Matrix Spike Duplicate
SPCC	System Performance Check Compound
SRM	Standard Reference Material
SSS	Second source std

Qualifier:

RPD-NA Relative Percent Difference Not Available due to result(s) being less than detection limit.
A Method blank exceeds detection limit. Blank correction applied, where appropriate.
B Method blank result exceeds detection limit, however, it is less that 5% of sample concentration. Blank correction not applied.
C Method blank result exceeds detection limit, however, it is less than 5% of the regulatory limit for the analyte of interest. Blank correction not applied.
D Duplicate result exceeds limit due to increased variability for low level samples.
E Matrix spike limit exceeded due to high sample background.
F Silver recovery low, likely due to elevated choride levels in sample.
G Outlier - No assignable cause for nonconformity has been determined.

Limit of Liability: Although care and due diligence is taken in the performance of our services, our liability in all cases is limited to re-analysis at our expense or refunding the analytical costs charged for the work performed.

PHOSPHUROUS

PDP Analytical Services
1680 Lake Front Circle, Suite B, The Woodlands, TX 77380

LCS/LCSD SUMMARY REPORT

TOTAL PHOSPHORUS

CLIENT NAME :
PROJECT NAME :
PROJECT NUMBER :

DATE RECEIVED :
PRINTED ON : 6/12/2000 14:12

SAMPLE MATRIX : LIQUID
METHOD REFERENCE : 4500-PE

LAB CONTROL SAMPLE
LCS SAMPLE ID : TPLCS019
CLIENT SAMPLE ID :
DATE ANALYZED : 06/08/00
INSTRUMENT FILE :

LAB CONTROL SAMPLE DUPLICATE
LCSD SAMPLE ID : TPLCS019D
CLIENT SAMPLE ID :
DATE ANALYZED : 06/08/00
INSTRUMENT FILE :

PARAMETER	UNIT	LCS TRUE VALUE	LCSD TRUE VALUE	LCS FOUND VALUE	LCSD FOUN VALUE	LCS RECOVER (%)	LCSD RECOVERY (%)	RPD	RPD LIMIT	QC LIMIT REC.
Phosphorus, total (as P)	MG/L	0.250	0.250	0.246	0.242	98	97	1.0	20	80 - 120

* Indicate values outside of QC limits

RPD : 0 out of 1 outside limits
Spike Recovery : 0 out of 2 outside limits

PDP Analytical Services

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MS/MSD SUMMARY REPORT

TOTAL PHOSPHORUS

CLIENT NAME : MEVATEC
PROJECT NAME : HELSTF TSA POOL
PROJECT NUMBER : 70B9

DATE RECEIVED : 6/2/00
PRINTED ON : 6/12/2000 14:12

SAMPLE MATRIX : WATER

METHOD REFERENCE : 4500-PE

SAMPLE		MATRIX SPIKE		MATRIX SPIKE DUPLICATE	
SAMPLE ID	: 6124.001	MS SAMPLE ID	: 6124.001MS	MSD SAMPLE ID	: 6124.001MSD
CLIENT SAMPLE ID	: 26030-MW003-0600-QA	CLIENT SAMPLE ID	. 26030-MW003-0600-QA	CLIENT SAMPLE ID	: 26030-MW003-0600-QA
DATE ANALYZED	: 06/08/00	DATE ANALYZED	: 06/08/00	DATE ANALYZED	: 06/08/00
GC FILE ID	:	INSTRUMENT FILE	:	INSTRUMENT FILE	:

PARAMETER	UNITS	MS SPIKE ADDED	MSD SPIKE ADDED	SAMPL CONC.	MS CONC.	MSD CONC.	MS RECOVERY (%)	MSD RECOVERY (%)	RPD	RPD LIMIT	QC LIMIT REC.
Phosphorus, total (as P)	MG/L	0.250	0.250	0.128	0.356	0.356	91	91	0.0	20	75 - 125

* Indicate values outside of QC limits

RPD : 0 out of 1 outside limits
Spike Recovery : 0 out of 2 outside limits

SULFATE

PDP Analytical Services
1680 Lake Front Circle, Suite B, The Woodlands, TX 77380

LCS/LCSD SUMMARY REPORT

SULFATE BY ION CHROMATOGRAPHY

CLIENT NAME :
PROJECT NAME :
PROJECT NUMBER :

DATE RECEIVED :
PRINTED ON : 7/6/2000 16:33

SAMPLE MATRIX : LIQUID
METHOD REFERENCE : EPA-300

LAB CONTROL SAMPLE
LCS SAMPLE ID : ICLCS23
CLIENT SAMPLE ID :
DATE ANALYZED : 06/27/00
INSTRUMENT FILE : 0627A0C1.D10

LAB CONTROL SAMPLE DUPLICATE
LCSD SAMPLE ID :
CLIENT SAMPLE ID :
DATE ANALYZED :
INSTRUMENT FILE :

PARAMETER	UNIT	LCS TRUE VALUE	LCSD TRUE VALUE	LCS FOUND VALUE	LCSD FOUN VALUE	LCS RECOVER (%)	LCSD RECOVERY (%)	RPD	RPD LIMIT	QC LIMIT REC.
Sulfate (as SO4)	MG/L	4.00		3.54		89			20	80 - 120

* Indicate values outside of QC limits

RPD : 0 out of 0 outside limits
Spike Recovery : 0 out of 1 outside limits

TOTAL DISSOLVED SOLIDS (TDS)

PDP Analytical Services

1680 Lake Front Circle, Suite B, The Woodlands, TX 77380

DUPLICATE SUMMARY REPORT

TOTAL DISSOLVED SOLIDS (TDS)

CLIENT NAME	: MEVATEC	DATE RECEIVED	: 6/2/00
PROJECT NAME	: HELSTF TSA POOL	PRINTED ON	: 6/12/2000
PROJECT NUMBER	: 70B9		
SAMPLE MATRIX	: WATER	METHOD REFERENCE	: EPA-160.1
SAMPLE		SAMPLE DUPLICATE	
SAMPLE ID	:	DUP SAMPLE ID	: 6124.001DUP1
CLIENT SAMPLE ID	: 26030-MW003-0600-QA	CLIENT SAMPLE ID	: 26030-MW003-0600-QA
DATE ANALYZED	: 06/08/00	DATE ANALYZED	: 06/08/00
GC FILE ID	:	INSTRUMENT FILE	:

COMPOUND	SAMPLE CONC.	DUP. CONC.	UNITS	RPD	RPD LIMITS
Total Dissolved Solids	8550	8930	MG/L	4.3	20

* Indicate values outside of QC limits

RPD : 0 out of 1 outside limits

PDP Analytical Services

1680 Lake Front Circle, Suite B, The Woodlands, TX 77380

LCS/LCSD SUMMARY REPORT

TOTAL DISSOLVED SOLIDS (TDS)

CLIENT NAME :
PROJECT NAME :
PROJECT NUMBER :

DATE RECEIVED :
PRINTED ON : 6/12/2000 12:29

SAMPLE MATRIX : LIQUID
METHOD REFERENCE : EPA-160.1

LAB CONTROL SAMPLE
LCS SAMPLE ID : TDSLCS032
CLIENT SAMPLE ID :
DATE ANALYZED : 06/08/00
INSTRUMENT FILE :

LAB CONTROL SAMPLE DUPLICATE
LCSD SAMPLE ID : TDSLCS032D
CLIENT SAMPLE ID :
DATE ANALYZED : 06/08/00
INSTRUMENT FILE :

PARAMETER	UNIT	LCS TRUE VALUE	LCSD TRUE VALUE	LCS FOUND VALUE	LCSD FOUN VALUE	LCS RECOVER (%)	LCSD RECOVERY (%)	RPD	RPD LIMIT	QC LIMIT REC.
Total Dissolved Solids	MG/L	500	500	510	490	102	98	4.0	20	80 - 120

* Indicate values outside of QC limits

RPD : 0 out of 1 outside limits
Spike Recovery : 0 out of 2 outside limits

TPH8015A-Purgeables

PDP Analytical Services
1680 Lake Front Circle, Suite B, The Woodlands, TX 77380

LABORATORY REPORT

TPH PURGEABLES BY GC/FID

CLIENT NAME :		CLIENT SAMPLE ID :	Prep Blank
PROJECT NAME :		LAB SAMPLE ID :	GBLK31
PROJECT NUMBER :		METHOD REFERENCE :	SW846-8015A
DATE SAMPLED :		DATE RECEIVED :	
SAMPLE MATRIX :	LIQUID	PRINTED ON :	6/12/2000 14:54

ANALYST	: DR	DATE ANALYZED	: 06/09/00
DILUTION	: 1	INSTRUMENT FILE	: B01241.D
INSTRUMENT ID	: B-HP5890	PURGE VOLUME	: 40 mL
TIME ANALYZED	: 15:09		

PARAMETER	QUANTITATION LIMIT	RESULTS	QUALIFIER
Total Petroleum Hydrocarbons - Gasoline Range	31 UG/L	ND UG/L	

QUALITY CONTROL DATA

SURROGATE COMPOUND	SPIKE ADDED	QC RECOVERY LIMITS	%RECOVERY
a,a,a-Trifluorotoluene	6.2 UG/L	75 - 125	77

BATCH QUALITY CONTROL SAMPLE IDs

QC BATCH ID : G31 PREP BLANK ID : GBLK31

PDP Analytical Services

1680 Lake Front Circle, Suite B, The Woodlands, TX 77380

LABORATORY REPORT

TPH PURGEABLES BY GC/FID

CLIENT NAME :		CLIENT SAMPLE ID :	Lab Control Sample
PROJECT NAME :		LAB SAMPLE ID :	GLCS29
PROJECT NUMBER :		METHOD REFERENCE :	SW846-8015A
DATE SAMPLED :		DATE RECEIVED :	
SAMPLE MATRIX :	LIQUID	PRINTED ON :	6/12/2000 14:54

ANALYST	: DR	DATE ANALYZED	: 06/09/00
DILUTION	: 1	INSTRUMENT FILE	: B01242.D
INSTRUMENT ID	: B-HP5890	PURGE VOLUME	: 40 mL
TIME ANALYZED	: 15:42		

PARAMETER	QUANTITATION LIMIT	RESULTS	QUALIFIER
Total Petroleum Hydrocarbons - Gasoline Range	31 UG/L	89.2 UG/L	

QUALITY CONTROL DATA

SURROGATE COMPOUND	SPIKE ADDED	QC RECOVERY LIMITS	%RECOVERY
a,a,a-Trifluorotoluene	6.2 UG/L	75 - 125	93

BATCH QUALITY CONTROL SAMPLE IDs

QC BATCH ID : G31 PREP BLANK ID : GBLK31

PDP Analytical Services
1680 Lake Front Circle, Suite B, The Woodlands, TX 77380

LCS/LCSD SUMMARY REPORT

TPH PURGEABLES BY GC/FID

CLIENT NAME :
PROJECT NAME :
PROJECT NUMBER :

DATE RECEIVED :
PRINTED ON : 6/12/2000 14:54

SAMPLE MATRIX : LIQUID
METHOD REFERENCE : SW846-8015A

LAB CONTROL SAMPLE
LCS SAMPLE ID : GLCS29
CLIENT SAMPLE ID :
DATE ANALYZED : 06/09/00
INSTRUMENT FILE : B01242.D

LAB CONTROL SAMPLE DUPLICATE
LCSD SAMPLE ID :
CLIENT SAMPLE ID :
DATE ANALYZED :
INSTRUMENT FILE :

PARAMETER	UNIT	LCS TRUE VALUE	LCSD TRUE VALUE	LCS FOUND VALUE	LCSD FOUN VALUE	LCS RECOVER (%)	LCSD RECOVERY (%)	RPD	RPD LIMIT	QC LIMIT REC.
Total Petroleum Hydrocarbons - G	UG/L	93.7		89.2		95			25	75 - 125

* Indicate values outside of QC limits

RPD : 0 out of 0 outside limits
Spike Recovery : 0 out of 1 outside limits

PDP Analytical Services

1680 Lake Front Circle, Suite B, The Woodlands, TX 77380

LABORATORY REPORT

TPH PURGEABLES BY GC/FID

CLIENT NAME	: MEVATEC	CLIENT SAMPLE ID	: 26030-MW003-0600-QAMS1
PROJECT NAME	: HELSTF TSA POOL	LAB SAMPLE ID	: 6124.001MS
PROJECT NUMBER	: 70B9	METHOD REFERENCE	: SW846-8015A
DATE SAMPLED	: 6/1/00	DATE RECEIVED	: 6/2/00
SAMPLE MATRIX	: WATER	PRINTED ON	: 6/12/2000 14:54

ANALYST	: DR	DATE ANALYZED	: 06/09/00
DILUTION	: 1	INSTRUMENT FILE	: B01244.D
INSTRUMENT ID	: B-HP5890	PURGE VOLUME	: 40 mL
TIME ANALYZED	: 16:42		

PARAMETER	QUANTITATION LIMIT	RESULTS	QUALIFIER
Total Petroleum Hydrocarbons - Gasoline Range	31 UG/L	88 UG/L	

QUALITY CONTROL DATA

SURROGATE COMPOUND	SPIKE ADDED	QC RECOVERY LIMITS	%RECOVERY
a,a,a-Trifluorotoluene	6.2 UG/L	75 - 125	90

BATCH QUALITY CONTROL SAMPLE IDs

QC BATCH ID : G31 PREP BLANK ID : GBLK31 LCS ID : GLCS29

PDP Analytical Services

1680 Lake Front Circle, Suite B, The Woodlands, TX 77380

LABORATORY REPORT

TPH PURGEABLES BY GC/FID

CLIENT NAME	: MEVATEC	CLIENT SAMPLE ID	: 26030-MW003-0600-QAMSD1
PROJECT NAME	: HELSTF TSA POOL	LAB SAMPLE ID	: 6124.001MSD
PROJECT NUMBER	: 70B9	METHOD REFERENCE	: SW846-8015A
DATE SAMPLED	: 6/1/00	DATE RECEIVED	: 6/2/00
SAMPLE MATRIX	: WATER	PRINTED ON	: 6/12/2000 14:54

ANALYST	: DR	DATE ANALYZED	: 06/09/00
DILUTION	: 1	INSTRUMENT FILE	: B01245.D
INSTRUMENT ID	: B-HP5890	PURGE VOLUME	: 40 mL
TIME ANALYZED	: 17:10		

PARAMETER	QUANTITATION LIMIT	RESULTS	QUALIFIER
Total Petroleum Hydrocarbons - Gasoline Range	31 UG/L	90 UG/L	

QUALITY CONTROL DATA

SURROGATE COMPOUND	SPIKE ADDED	QC RECOVERY LIMITS	%RECOVERY
a,a,a-Trifluorotoluene	6.2 UG/L	75 - 125	93

BATCH QUALITY CONTROL SAMPLE IDs

QC BATCH ID : G31 PREP BLANK ID : GBLK31 LCS ID : GLCS29

MS ID : 6124.001MS

PDP Analytical Services
1680 Lake Front Circle, Suite B, The Woodlands, TX 77380

MS/MSD SUMMARY REPORT

TPH PURGEABLES BY GC/FID

CLIENT NAME : MEVATEC
PROJECT NAME : HELSTF TSA POOL
PROJECT NUMBER : 70B9

DATE RECEIVED : 6/2/00
PRINTED ON : 6/12/2000 14:54

SAMPLE MATRIX : WATER

METHOD REFERENCE : SW846-8015A

SAMPLE		MATRIX SPIKE		MATRIX SPIKE DUPLICATE	
SAMPLE ID	: 6124.001	MS SAMPLE ID	: 6124.001MS	MSD SAMPLE ID	: 6124.001MSD
CLIENT SAMPLE ID	: 26030-MW003-0600-QA	CLIENT SAMPLE ID	: 26030-MW003-0600-QA	CLIENT SAMPLE ID	: 26030-MW003-0600-QA
DATE ANALYZED	: 06/09/00	DATE ANALYZED	: 06/09/00	DATE ANALYZED	: 06/09/00
INSTRUMENT FILE	: B01243.D	INSTRUMENT FILE	: B01244.D	INSTRUMENT FILE	: B01245.D

PARAMETER	UNITS	MS SPIKE ADDED	MSD SPIKE ADDED	SAMPL CONC.	MS CONC.	MSD CONC.	MS RECOVERY (%)	MSD RECOVERY (%)	RPD	RPD LIMIT	QC LIMIT REC.
Total Petroleum Hydrocarbons - Ga	UG/L	93.7	93.7	1.2	88.1	89.6	93	94	1.1	25	75 - 125

* Indicate values outside of QC limits

RPD : 0 out of 1 outside limits
Spike Recovery : 0 out of 2 outside limits

END OF REPORT

60267

PO# 0015-2029

MEVATEC CORPORATION

P.O. Box 399
Bldg. 126
WSMR, NM 88002
(505) 678-0263

CHAIN OF CUSTODY RECORD

PAGE 1 OF 1

PROJECT NO.: 70089

PROJECT NAME: HELSTF TSA POL Station

SAMPLER'S SIGNATURE: Alejandro Martinez

DATE COLLECTED	TIME COLLECTED	SAMPLE ID	MATRIX	LAB NO.	NO. OF CONTAINERS	TPH-DRO	BTEX	MTBE	Phy. Chem.	Diss. Anions	Diss. Cations	Diss. Nutrients	Diss. Metals			REMARKS
06/01	1639	26030-MW02-06 ∞	water	20002544	14	✓	✓	✓	✓	✓	✓	✓	✓			

PROJECT INFORMATION			1. RELINQUISHED BY: (SIGNATURE)	2. RELINQUISHED BY: (SIGNATURE)	3. RECEIVED BY LABORATORY: (SIGNATURE)
PROJECT MANAGER: Greg Walterson	SAMPLES RECEIVED		Alejandro Martinez		Lucia Duran
	TOTAL NO. OF CONTAINERS		(PRINTED NAME) Alejandro Martinez	(PRINTED NAME)	(PRINTED NAME)
SHIPPING ID. NO.	CHAIN OF CUSTODY SEALS		RECEIVED BY: Karen Cole	RECEIVED BY:	(COMPANY) Trace
	GOOD CONDITION/CHILLED	5°C	(TIME / DATE) 8:20 am 6/2/00	(TIME / DATE)	(TIME / DATE) 6/02/00 9:40
VIA: hand carried	CONFORMS TO RECORD		SPECIAL INSTRUCTIONS / COMMENTS: Please see attached Analytical list for Details		

PLEASE USE BALL POINT PEN

DISTRIBUTION: WHITE - PROJECT FILES; YELLOW - LAB; PINK - FIELD COPY

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E-Mail: lab@traceanalysis.com

REPORT SUMMARY

7/12/00

CLIENT: **MEVATEC**
PO Box 399, Bldg. 126
WSMR, NM 88002

SAMPLE DATE: 06/01/00

PROJECT ID: 700 B9 HELSTF TSA POL Station

ANALYSES REQUESTED: GRO, BTEX, Physical Char., Dissolved Anions, Dissolved Cations, Dissolved Nutrients, Dissolved Metals,

TEMPERATURE UPON RECEIPT: 5° Celsius
Temperature acceptance range for most analysis is 2 – 6 degrees Celsius.

CCV for benzene was out of the control limits by less than 1%. BFB surrogate did not meet QC criteria, however, TFT did meet the criteria. TDS ran out of hold time.

Laboratory analyses were performed on samples utilizing procedures published in Standards Methods for the Examination of Water and Wastewater, 18th Edition 1992; EPA Test Methods for Evaluating Solid Waste 3rd Edition, through December 1996 revisions; or EPA Methods for the Chemical Analysis of Water and Wastes[EPA-600/4-79-020], March 1983, and the latest promulgated updates. This is an integral part of the report and must be included with all copies.

Melissa Brooks

Melissa Brooks

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ANALYTICAL REPORT

CLIENT MEVATEC
PO BOX 399, BLDG. 126
WSMR, NM 88002

SAMPLE NO.: 20002544
INVOICE NO.: 22105842
REPORT DATE: 06-28-00
REVIEWED BY: ✓
PAGE : 1 OF 2

CLIENT SAMPLE ID : 26030-MW02-0600
SAMPLE TYPE .....: Water
SAMPLED BY .....: A.M.
SUBMITTED BY ....: G.W.
SAMPLE SOURCE ...: HELSTF TSA POL Station
ANALYST .....: FEM

AUTHORIZED BY : G. WATTERSON
CLIENT P.O. : --
SAMPLE DATE ...: 06-01-00
SUBMITTAL DATE : 06-02-00
EXTRACTION DATE: --
ANALYSIS DATE .: 06-12-00

REMARKS -

Benzene percent Recovery in the closing calibration verification was out of the control limits by less than 1.0%. BFB surrogate did not meet QC criteria; however, the TFT surrogate was within control.

Petroleum Contaminants by 8021B

DATA TABLE

Parameter	Result	Unit	Detection Limit
Benzene	<1.0	ug/L	1.0
Toluene	<1.0	ug/L	1.0
Ethylbenzene	<1.0	ug/L	1.0
Total Xylenes	<1.0	ug/L	1.0
Methyl Tert-Butyl Ether	<2.0	ug/L	2.0

ANALYTICAL RESULT(S) REPORTED HEREIN APPLY ONLY TO THE SAMPLE(S) TESTED. FURTHERMORE, THIS REPORT CAN ONLY BE COPIED IN ITS ENTIRETY

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MANAGING DIRECTOR

ANALYTICAL REPORT

CLIENT MEVATEC
PO BOX 399, BLDG. 126
WSMR, NM 88002

SAMPLE NO. : 20002544
INVOICE NO.: 22105842
REPORT DATE: 06-28-00
REVIEWED BY:

D A T A T A B L E (Cont.)

Surrogate Information -

	Percent Recovery	Range
aaa Trifluorotoluene	98.7	87-118
4-Bromoflurobenzene	97.1	91-109

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ANALYTICAL REPORT

CLIENT MEVATEC
PO BOX 399, BLDG. 126
WSMR, NM 88002

SAMPLE NO. : 20002544
INVOICE NO.: 22105842
REPORT DATE: 06-28-00
REVIEWED BY: K

D A T A T A B L E (Cont.)

Surrogate Information -

	Percent Recovery	Range
1-ChloroOctane ..... :	89.5	80-120

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ANALYTICAL REPORT

CLIENT MEVATEC
PO BOX 399, BLDG. 126
WSMR, NM 88002

SAMPLE NO.: 20002544
INVOICE NO.: 22105842
REPORT DATE: 06-28-00
REVIEWED BY:
PAGE : 1 OF 2

CLIENT SAMPLE ID : 26030-MW02-0600
SAMPLE TYPE .....: Water
SAMPLED BY .....: A.M.
SUBMITTED BY ....: G.W.
SAMPLE SOURCE ...: HELSTF TSA POL Station
ANALYST .....: FEM

AUTHORIZED BY : G. WATTERSON
CLIENT P.O. : --
SAMPLE DATE ...: 06-01-00
SUBMITTAL DATE : 06-02-00
EXTRACTION DATE: --
ANALYSIS DATE .: 06-07-00

TPH Gas by Mod 8015

DATA TABLE

Parameter	Result	Unit	Detection Limit
TPH Gas .....:	<1.0	mg/L	1.0

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Karen Cosby
MANAGING DIRECTOR

ANALYTICAL REPORT

CLIENT MEVATEC
PO BOX 399, BLDG. 126
WSMR, NM 88002

SAMPLE NO. : 20002544
INVOICE NO.: 22105842
REPORT DATE: 07-12-00
REVIEWED BY: K

D A T A T A B L E (Continue)

Parameter	Result	Unit	Detection Limit	Analysis Date	Test Method	Analyst
Sulfate .....:	4900	mg/L	100	06-07-00	EPA 300.0	D. Guzman
Total Dissolved Solids .....:	8300.	mg/L	50.	06-09-00	STD METH 2540 C	P. Tarango
Bromide .....:	<2.0	mg/L	2.0	06-02-00	EPA 300.0	D.Guzman

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CLIENT MEVATEC
PO BOX 399, BLDG. 126
WSMR, NM 88002

SAMPLE NO. : 20002544
INVOICE NO.: 22105842
REPORT DATE: 07-12-00
REVIEWED BY: K
PAGE : 1 OF 2

CLIENT SAMPLE ID : 26030-MW02-0600
SAMPLE TYPE .....: Water
SAMPLED BY .....: A.M.
SUBMITTED BY ....: G.W.
SAMPLE SOURCE ...: HELSTF TSA POL Station

AUTHORIZED BY : G. WATTERSON
CLIENT P.O. : --
SAMPLE DATE ...: 06-01-00
SUBMITTAL DATE : 06-02-00
EXTRACTION DATE: --

REMARKS -

Total Dissolved Sample was ran past hold time.

Inorganic Non-Metals

DATA TABLE

Parameter	Result	Unit	Detection Limit	Analysis Date	Test Method	Analyst
Ammonia Nitrogen .....:	<2.0	mg/L	2.0	06-12-00	SM4500-NH3 B,E	E. Castaneda
Bicarbonate .....:	130	mg/L	5.0	06-05-00	STD METH 2320 B	D.Guzman
Carbonate .....:	<5.0	mg/L	5.0	06-05-00	STD METH 2320 B	D.Guzman
Chloride .....:	870	mg/L	200	06-07-00	EPA 300.0	D. Guzman
Electrical Conductivity .....:	9700.	umhos/cm		06-05-00	STD METH 2510 B	P. Tarango
Fluoride .....:	0.49	mg/L	0.40	06-02-00	EPA 300.0	D.Guzman
Nitrate Nitrogen .....:	13.	mg/L	0.10	06-02-00	EPA 300.0	D.Guzman
pH-performed in laboratory .....:	7.8	S.U.		06-02-00	STD METH 4500-H+	P. Tarango
Temp, C: at time of pH .....:	22.4	degrees C		06-02-00		P. Tarango

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CLIENT MEVATEC
PO BOX 399, BLDG. 126
WSMR, NM 88002

SAMPLE NO. : 20002544
INVOICE NO.: 22105842
REPORT DATE: 07-12-00
REVIEWED BY:
PAGE : 1 OF 1

CLIENT SAMPLE ID : 26030-MW02-0600
SAMPLE TYPE .....: Water
SAMPLED BY .....: A.M.
SUBMITTED BY ....: G.W.
SAMPLE SOURCE ...: HELSTF TSA POL Station

AUTHORIZED BY : G. WATTERSON
CLIENT P.O. : --
SAMPLE DATE ...: 06-01-00
SUBMITTAL DATE : 06-02-00
EXTRACTION DATE: --

Dissolved Metals

DATA TABLE

Parameter	Result	Unit	Detection Limit	Analysis Date	Test Method	Analyst
Dissolved Calcium .....:	330	mg/L	50.	06-12-00	SM 3111B	N. Munir
Dissolved Magnesium .....:	320	mg/L	50.	06-12-00	SM 3111B	N. Munir
Dissolved Potassium .....:	12.	mg/L	1.0	06-12-00	SM 3111B	N. Munir
Dissolved Sodium .....:	1700	mg/L	50.	06-12-00	SM 3111B	N. Munir
Dissolved Barium .....:	<0.05	mg/L	0.05	06-13-00	SW 6010B	N. Munir
Dissolved Boron .....:	1.0	mg/L	0.10	06-08-00	SW 6010B	N. Munir
Dissolved Iron .....:	<0.20	mg/L	0.20	06-12-00	SW 6010B	N. Munir
Dissolved Lithium .....:	0.44	mg/L	0.10	06-14-00	SW 6010B	N. Munir
Dissolved Manganese .....:	<0.05	mg/L	0.05	06-12-00	SW 6010B	N. Munir
Dissolved Strontium .....:	6.6	mg/L	0.20	06-08-00	SW 6010B	N. Munir
Dissolved Uranium .....:	6.0	mg/L	5.0	06-14-00	SW 6010B	N. Munir
Dissolved Phosphorus .....:	<0.20	mg/L	0.20	07-08-00	6010B	N. Munir

ANALYTICAL RESULT(S) REPORTED HEREIN APPLY ONLY TO THE SAMPLE(S) TESTED. FURTHERMORE, THIS REPORT CAN ONLY BE COPIED IN ITS ENTIRETY

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CLIENT MEVATEC
PO BOX 399, BLDG. 126
WSMR, NM 88002

SAMPLE NO. : 20002544
INVOICE NO.: 22105842
REPORT DATE: 07-12-00
REVIEWED BY: KL
PAGE : 1 OF 1

CLIENT SAMPLE ID : 26030-MW02-0600
SAMPLE TYPE .....: Water
SAMPLED BY .....: A.M.
SUBMITTED BY ....: G.W.
SAMPLE SOURCE ...: HELSTF TSA POL Station

AUTHORIZED BY : G. WATTERSON
CLIENT P.O. : --
SAMPLE DATE ...: 06-01-00
SUBMITTAL DATE : 06-02-00
EXTRACTION DATE: --

Metals - Liquid

DATA TABLE

Parameter	Result	Unit	Detection Limit	Analysis Date	Test Method	Analyst
Total Mercury .....:	<0.001	mg/L	0.001	06-05-00	E-245.1	N. Munir

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PO#: PY 3-2029

MEVATEC CORPORATION
P.O. Box 399
Bldg. 126
WSMR, NM 88002
(505) 678-0263

CHAIN OF CUSTODY RECORD

PAGE 1 OF 1

PROJECT NO.: 700 B9

PROJECT NAME: HELSTF POL Station TSA

SAMPLER'S SIGNATURE: Alejandro G Martinez

DATE COLLECTED	TIME COLLECTED	SAMPLE ID	MATRIX	2000 LAB NO.	NO. OF CONTAINERS	VOC's	TPH-GRO	BTEX	MTBE	SVOC's	Phy Chem	Diss Anions	Diss Cations	Diss. Nutrients	Diss Metals	Chlorinated Water Test	REMARKS
06/01/00	1206	26030-MW04-0600	water	2545	18	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
06/01/00	1206	26030-MW04-0600-TB	water	2000 2546	2												

PROJECT INFORMATION			1. RELINQUISHED BY: (SIGNATURE)	2. RELINQUISHED BY: (SIGNATURE)	3. RECEIVED BY LABORATORY: (SIGNATURE)
PROJECT MANAGER / TC: Greg Watterson	SAMPLES RECEIVED		(PRINTED NAME): Alejandro Martinez	(PRINTED NAME)	(PRINTED NAME)
SHIPPING ID. NO.	TOTAL NO. OF CONTAINERS		RECEIVED BY:	RECEIVED BY:	(COMPANY): Trace
VIA:	CHAIN OF CUSTODY SEALS		(TIME / DATE): 8:20 Jan 6-2000	(TIME / DATE)	(TIME / DATE): 6/02/00 9:50
	GOOD CONDITION/CHILLED	5°	SPECIAL INSTRUCTIONS / COMMENTS: Please See attached Analytical List for Details		
	CONFORMS TO RECORD				

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E-Mail: lab@traceanalysis.com

REPORT SUMMARY

7/12/00

CLIENT: **MEVATEC**
PO Box 399, Bldg. 126
WSMR, NM 88002

SAMPLE DATE: 06/01/00

PROJECT ID: 700 B9 HELSTF TSA POL Station

ANALYSES REQUESTED: GRO, BTEX, Physical Char., Dissolved Anions, Dissolved Cations, Dissolved Nutrients, Dissolved Metals, VOC's, SVOC's

TEMPERATURE UPON RECEIPT: 5° Celsius
Temperature acceptance range for most analysis is 2 – 6 degrees Celsius.

CCV for benzene was out of the control limits by less than 1%. BFB surrogate did not meet QC criteria, however, TFT did meet the criteria. TDS, nitrate and pH were run past hold time. Detection limits raised for Fluoride and Bromide due to sample dilution. The recoveries of benzene and toluene in the matrix spikes were out of acceptance criteria, due to the large amounts of benzene and toluene found in the unspiked sample. The matrix spikes were analyzed off of the 12 hour clock. Recovery of some spike compounds were outside of acceptance criteria in the LCS. Some of the RPD's were outside of control limits in the LCS/LCSD. The closing CCV standard was out of acceptance criteria.

Laboratory analyses were performed on samples utilizing procedures published in Standards Methods for the Examination of Water and Wastewater, 18th Edition 1992; EPA Test Methods for Evaluating Solid Waste 3rd Edition, through December 1996 revisions; or EPA Methods for the Chemical Analysis of Water and Wastes[EPA-600/4-79-020], March 1983, and the latest promulgated updates. This is an integral part of the report and must be included with all copies.

Melissa Brooks

Melissa Brooks

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ANALYTICAL REPORT

CLIENT MEWATER
PO BOX 399, BLDG. 126
WSMR, NM 88002

SAMPLE NO.: 20002545
INVOICE NO.: 22105841
REPORT DATE: 06-28-00
REVIEWED BY: K
PAGE : 1 OF 4

CLIENT SAMPLE ID : 26030-MW04-0600
SAMPLE TYPE .....: Water
SAMPLED BY .....: A.M.
SUBMITTED BY ....: G.W.
SAMPLE SOURCE ...: HELSTF POC Station TSA
ANALYST .....: B. Murphy

AUTHORIZED BY : G. WATTERSON
CLIENT P.O. : --
SAMPLE DATE ...: 06-01-00
SUBMITTAL DATE : 06-02-00
EXTRACTION DATE: --
ANALYSIS DATE .: 06-08-00

REMARKS -

Detection limits raised due to sample dilution. Due to large amounts of benzene and toluene found in the unspiked sample, the recoveries of these compounds in the matrix spike analyses are outside of acceptance criteria. The Matrix spike samples were analyzed off of the twelve hour analytical clock.

Method 8260/5030B - Volatile Organics Waters

DATA TABLE

Parameter	Result	Unit	Detection Limit
Bromochloromethane	<5.0	ug/L	5.0
Dichlorodifluoromethane	<5.0	ug/L	5.0
Chloromethane	<5.0	ug/L	5.0
Vinyl chloride	<10.0	ug/L	10.0
Bromomethane	<25.0	ug/L	25.0
Chloroethane	<5.0	ug/L	5.0
Trichlorofluoromethane	<5.0	ug/L	5.0
1,1-Dichloroethene	<5.0	ug/L	5.0
Acetone	<500.0	ug/L	500.0
Methylene Chloride	<50.0	ug/L	50.0
Methyl-tert-Butyl Ether	<25.0	ug/L	25.0
trans-1,2-Dichloroethene	<5.0	ug/L	5.0
1,1-Dichloroethane	<5.0	ug/L	5.0
2-Butanone (MEK)	<250.0	ug/L	250.0
cis-1,2-Dichloroethene	<5.0	ug/L	5.0
2,2-Dichloropropane	<15.0	ug/L	15.0
1,2-Dichloroethane	<10.0	ug/L	10.0
Chloroform	<5.0	ug/L	5.0
1,1,1-Trichloroethane	<5.0	ug/L	5.0
1,1-Dichloropropene	<5.0	ug/L	5.0
Benzene	1600	ug/L	20.0
Carbon Tetrachloride	<5.0	ug/L	5.0

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Karen Costa
MANAGING DIRECTOR

ANALYTICAL REPORT

CLIENT MEVATEC
PO BOX 399, BLDG. 126
WSMR, NM 88002

SAMPLE NO. : 2000254
INVOICE NO.: 22105841
REPORT DATE: 06-28-00
REVIEWED BY:

DATA TABLE (Cont.)

Parameter	Result	Unit	Detection Limit
1,2-Dichloropropane	<5.0	ug/L	5.0
Trichloroethene	<5.0	ug/L	5.0
Dibromomethane	<5.0	ug/L	5.0
Bromodichloromethane	<5.0	ug/L	5.0
cis-1,3-Dichloropropene	<5.0	ug/L	5.0
4-Methyl-2-pentanone (MIBK)	<250.0	ug/L	250.0
trans-1,3-Dichloropropene	<5.0	ug/L	5.0
Toluene	1570	ug/L	20.0
2-Hexanone	<250.0	ug/L	250.0
1,1,2-Trichloroethane	<5.0	ug/L	5.0
1,3-Dichloropropane	<5.0	ug/L	5.0
Dibromochloromethane	<5.0	ug/L	5.0
1,2-Dibromoethane	<5.0	ug/L	5.0
Tetrachloroethene	<5.0	ug/L	5.0
Chlorobenzene	<5.0	ug/L	5.0
1,1,1,2-Tetrachloroethane	<10.0	ug/L	10.0
Ethylbenzene	120.	ug/L	10.0
m,p-Xylenes	330.	ug/L	10.0
Bromoform	<5.0	ug/L	5.0
Styrene	<5.0	ug/L	5.0
o-Xylene	150.	ug/L	5.0
1,1,2,2-Tetrachloroethane	<5.0	ug/L	5.0
2-Chlorotoluene	<5.0	ug/L	5.0
1,2,3-Trichloropropane	<5.0	ug/L	5.0
Isopropylbenzene	<10.0	ug/L	10.0
Bromobenzene	<5.0	ug/L	5.0
n-Propylbenzene	<10.0	ug/L	10.0
1,3,5-Trimethylbenzene	<10.0	ug/L	10.0
tert-Butylbenzene	<5.0	ug/L	5.0
1,2,4-Trimethylbenzene	<50.0	ug/L	50.0
1,4-Dichlorobenzene	<10.0	ug/L	10.0
sec-Butylbenzene	<5.0	ug/L	5.0
1,3-Dichlorobenzene	<10.0	ug/L	10.0
p-Isopropyltoluene	<5.0	ug/L	5.0
4-Chlorotoluene	<5.0	ug/L	5.0
1,2-Dichlorobenzene	<10.0	ug/L	10.0
n-Butylbenzene	<15.0	ug/L	15.0
1,2-Dibromo-3-chloropropane	<25.0	ug/L	25.0

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ANALYTICAL REPORT

CLIENT MEVATEC
PO BOX 399, BLDG. 126
WSMR, NM 88002

SAMPLE NO. : 20002545
INVOICE NO.: 22105841
REPORT DATE: 06-28-00
REVIEWED BY:

D A T A T A B L E (Cont.)

Parameter	Result	Unit	Detection Limit
1,2,3-Trichlorobenzene .....:	<25.0	ug/L	25.0
1,2,4-Trichlorobenzene .....:	<25.0	ug/L	25.0
Napthalene .....:	<25.0	ug/L	25.0
Hexachlorobutadiene .....:	<25.0	ug/L	25.0

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ANALYTICAL REPORT

CLIENT MEVATEC
PO BOX 399, BLDG. 126
WSMR, NM 88002

SAMPLE NO. : 2000254!
INVOICE NO.: 22105841
REPORT DATE: 06-28-00
REVIEWED BY:
PAGE : 4 OF 4

D A T A T A B L E (Cont.)

Surrogate Information -

	Percent Recovery	Range
Dibromofluoromethane ..... :	95.8	68-118
Toluene-d8 ..... :	96.6	87-110
4-Bromofluorobenzene ..... :	91.6	81-104

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E-Mail: lab@traceanalysis.com

CLIENT MEVATEC
PO BOX 399, BLDG. 126
WSMR, NM 88002

SAMPLE NO.: 20002545
INVOICE NO.: 22105841
REPORT DATE: 07-12-00
REVIEWED BY: K
PAGE : 1 OF 4

CLIENT SAMPLE ID : 26030-MW04-0600
SAMPLE TYPE .....: Water
SAMPLED BY .....: A.M.
SUBMITTED BY ....: G.W.
SAMPLE SOURCE ...: HELSTF POC Station TSA
ANALYST .....: B. Murphy/F. Martinez

AUTHORIZED BY : G. WATTERSON
CLIENT P.O. : --
SAMPLE DATE ...: 06-01-00
SUBMITTAL DATE : 06-02-00
EXTRACTION DATE: 06-07-00
ANALYSIS DATE .: 07-01-00

REMARKS -

Recovery of spike compounds n-nitrosodi-n-propylamine, acenaphthene, 2,4-Dinitrotoluene and pyrene are outside of acceptance criteria in the laboratory control samples. The RPDs for phenol, 2-chlorophenol, 1,4-dichlorobenzene, n-nitrosodi-n-propylamine and 1,2,4-trichlorobenzene are outside of control limits in the LCS/LCSD.

8270C Semivolatile - Waters

DATA TABLE

Parameter	Result	Unit	Detection Limit
Pyridine	<0.05	mg/L	0.05
N-Nitrosodimethylamine	<0.05	mg/L	0.05
2-Picoline	<0.05	mg/L	0.05
Methyl methanesulfonate	<0.05	mg/L	0.05
Ethyl methanesulfonate	<0.05	mg/L	0.05
Phenol	0.051	mg/L	0.05
Aniline	<0.05	mg/L	0.05
bis(2-Chloroethyl)ether	<0.05	mg/L	0.05
2-Chlorophenol	<0.05	mg/L	0.05
1,3-Dichlorobenzene	<0.05	mg/L	0.05
1,4-Dichlorobenzene	<0.05	mg/L	0.05
Benzyl alcohol	<0.05	mg/L	0.05
1,2-Dichlorobenzene	<0.05	mg/L	0.05
2-Methylphenol	<0.05	mg/L	0.05
bis(2-chloroisopropyl)ether	<0.05	mg/L	0.05
3-Methylphenol/4-Methylphenol	<0.05	mg/L	0.05
n-Nitrosodi-n-propylamine	<0.05	mg/L	0.05
Hexachloroethane	<0.05	mg/L	0.05
Acetophenone	<0.05	mg/L	0.05
Nitrobenzene	<0.05	mg/L	0.05
N-Nitrosopiperidine	<0.05	mg/L	0.05
Isophorone	<0.05	mg/L	0.05

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MANAGING DIRECTOR

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CLIENT MEVATEC
PO BOX 399, BLDG. 126
WSMR, NM 88002

SAMPLE NO. : 2000254
INVOICE NO.: 22105841
REPORT DATE: 07-12-00
REVIEWED BY: K
PAGE : 2 OF 4

DATA TABLE (Cont.)

Parameter	Result	Unit	Detection Limit
2-Nitrophenol	<0.05	mg/L	0.05
2,4-Dimethylphenol	<0.05	mg/L	0.05
bis(2-Chloroethoxy)methane	<0.05	mg/L	0.05
2,4-Dichlorophenol	<0.05	mg/L	0.05
1,2,4-Trichlorobenzene	<0.05	mg/L	0.05
Benzoic Acid	<0.05	mg/L	0.05
Naphthalene	<0.05	mg/L	0.05
4-Chloroaniline	<0.05	mg/L	0.05
2,6-Dichlorophenol	<0.05	mg/L	0.05
Hexachlorobutadiene	<0.05	mg/L	0.05
N-Nitroso-di-n-butylamine	<0.05	mg/L	0.05
4-Chloro-3-methylphenol	<0.05	mg/L	0.05
2-Methylnaphthalene	<0.05	mg/L	0.05
1-Methylnaphthalene	<0.05	mg/L	0.05
1,2,4,5-Tetrachlorobenzene	<0.05	mg/L	0.05
Hexachlorocyclopentadiene	<0.05	mg/L	0.05
2,4,6-Trichlorophenol	<0.05	mg/L	0.05
2,4,5-Trichlorophenol	<0.05	mg/L	0.05
2-Chloronaphthalene	<0.05	mg/L	0.05
1-Chloronaphthalene	<0.05	mg/L	0.05
2-Nitroaniline	<0.05	mg/L	0.05
Dimethylphthalate	<0.05	mg/L	0.05
Acenaphthylene	<0.05	mg/L	0.05
2,6-Dinitrotoluene	<0.05	mg/L	0.05
3-Nitroaniline	<0.05	mg/L	0.05
Acenaphthene	<0.05	mg/L	0.05
2,4-Dinitrophenol	<0.05	mg/L	0.05
Dibenzofuran	<0.05	mg/L	0.05
Pentachlorobenzene	<0.05	mg/L	0.05
4-Nitrophenol	<0.05	mg/L	0.05
2,4-Dinitrotoluene	<0.05	mg/L	0.05
1-Naphthylamine	<0.05	mg/L	0.05
2,3,4,6-Tetrachlorophenol	<0.05	mg/L	0.05
2-Naphthylamine	<0.05	mg/L	0.05
Fluorene	<0.05	mg/L	0.05
4-Chlorophenyl-phenylether	<0.05	mg/L	0.05
Diethylphthalate	<0.05	mg/L	0.05
4-Nitroaniline	<0.05	mg/L	0.05

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CLIENT MEVATEC
PO BOX 399, BLDG. 126
WSMR, NM 88002

SAMPLE NO. : 20002545
INVOICE NO.: 22105841
REPORT DATE: 07-12-00
REVIEWED BY: K
PAGE : 3 OF 4

D A T A T A B L E (Cont.)

Parameter	Result	Unit	Detection Limit
1,2-Diphenylhydrazine/Azobenzene .:	<0.05	mg/L	0.05
4,6-Dinitro-2-methylphenol .....:	<0.05	mg/L	0.05
Diphenylamine/N-Nitrosodiphenylamin:	<0.05	mg/L	0.05
4-Bromophenyl-phenylether .....:	<0.05	mg/L	0.05
Phenacetin .....:	<0.05	mg/L	0.05
Hexachlorobenzene .....:	<0.05	mg/L	0.05
4-Aminobiphenyl .....:	<0.05	mg/L	0.05
Pentachlorophenol .....:	<0.05	mg/L	0.05
Anthracene .....:	<0.05	mg/L	0.05
Pentachloronitrobenzene .....:	<0.05	mg/L	0.05
Pronamide .....:	<0.05	mg/L	0.05
Phenanthrene .....:	<0.05	mg/L	0.05
Di-n-butylphthalate .....:	<0.05	mg/L	0.05
Fluoranthene .....:	<0.05	mg/L	0.05
Benzidine .....:	<0.05	mg/L	0.05
Pyrene .....:	<0.05	mg/L	0.05
p-Dimethylaminoazobenzene .....:	<0.05	mg/L	0.05
Butylbenzylphthalate .....:	<0.05	mg/L	0.05
Benz[a]anthracene .....:	<0.05	mg/L	0.05
3,3-Dichlorobenzidine .....:	<0.05	mg/L	0.05
Chrysene .....:	<0.05	mg/L	0.05
bis(2-Ethylhexyl)phthalate .....:	<0.05	mg/L	0.05
Di-n-octylphthalate .....:	<0.05	mg/L	0.05
Benzo[b&k]fluoranthene .....:	<0.05	mg/L	0.05
7,12-Dimethylbenz(a)anthracene ...:	<0.05	mg/L	0.05
Benzo[a]pyrene .....:	<0.05	mg/L	0.05
3-Methylcholanthrene .....:	<0.05	mg/L	0.05
Dibenzo(a,j)acridine .....:	<0.05	mg/L	0.05
Indeno[1,2,3-cd]pyrene .....:	<0.05	mg/L	0.05
Dibenz[a,h]anthracene .....:	<0.05	mg/L	0.05
Benzo[g,h,i]perylene .....:	<0.05	mg/L	0.05

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PO BOX 399, BLDG. 126
WSMR, NM 88002

SAMPLE NO. : 2000254
INVOICE NO.: 22105841
REPORT DATE: 07-12-00
REVIEWED BY:
PAGE : 4 OF 4

D A T A T A B L E (Cont.)

Surrogate Information -

	Percent Recovery	Range
2-Fluorophenol ..... :	46.0	1- 97
Phenol-d5 ..... :	40.1	1- 97
Nitrobenzene-d5 ..... :	79.3	30-103
2-Fluorobiphenyl ..... :	80.4	40-117
2,4,6-Tribromophenol ..... :	98.0	49-135
Terphenyl-d14 ..... :	43.2	1-148

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CLIENT MEVATEC
PO BOX 399, BLDG. 126
WSMR, NM 88002

SAMPLE NO.: 20002545
INVOICE NO.: 22105841
REPORT DATE: 06-28-00
REVIEWED BY:
PAGE : 1 OF 2

CLIENT SAMPLE ID : 26030-MW04-0600
SAMPLE TYPE .....: Water
SAMPLED BY .....: A.M.
SUBMITTED BY ....: G.W.
SAMPLE SOURCE ...: HELSTF POC Station TSA
ANALYST .....: F. MARTINEZ

AUTHORIZED BY : G. WATTERSON
CLIENT P.O. : --
SAMPLE DATE ...: 06-01-00
SUBMITTAL DATE : 06-02-00
EXTRACTION DATE: --
ANALYSIS DATE .: 06-07-00

REMARKS -

Closing CCV standard was out of acceptance criteria.

TPH Gas by Mod 8015

DATA TABLE

Parameter	Result	Unit	Detection Limit
TPH Gas .....:	8.8	mg/L	1.0

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ANALYTICAL REPORT

CLIENT MEVATEC
PO BOX 399, BLDG. 126
WSMR, NM 88002

SAMPLE NO. : 20002545
INVOICE NO.: 22105841
REPORT DATE: 06-28-00
REVIEWED BY:
PAGE : 2 ~~OF 2~~

D A T A T A B L E (Cont.)

Surrogate Information -	Percent Recovery	Range
1-ChloroOctane ..... :	94.4	80-120

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ANALYTICAL REPORT

CLIENT MEVATEC
PO BOX 399, BLDG. 126
WSMR, NM 88002

SAMPLE NO.: 20002545
INVOICE NO.: 22105841
REPORT DATE: 07-12-00
REVIEWED BY:
PAGE : 1 OF 2

CLIENT SAMPLE ID : 26030-MW04-0600
SAMPLE TYPE .....: Water
SAMPLED BY .....: A.M.
SUBMITTED BY ....: G.W.
SAMPLE SOURCE ...: HELSTF POC Station TSA
ANALYST .....: FEM

AUTHORIZED BY : G. WATTERSON
CLIENT P.O. : --
SAMPLE DATE ...: 06-01-00
SUBMITTAL DATE : 06-02-00
EXTRACTION DATE: --
ANALYSIS DATE .: 06-12-00

REMARKS -

Benzene percent Recovery in the closing calibration verification was out of the control limits by less than 1.0%. BFB surrogate did not meet QC criteria; however, TFT surrogate was within control limits.

Petroleum Contaminants by 8021B

DATA TABLE

Parameter	Result	Unit	Detection Limit
Benzene	1200	ug/L	4.0
Toluene	120	ug/L	4.0
Ethylbenzene	88.	ug/L	4.0
Total Xylenes	420	ug/L	4.0
Methyl Tert-Butyl Ether	72.	ug/L	20.

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PO BOX 399, BLDG. 126
WSMR, NM 88002

SAMPLE NO. : 20002545
INVOICE NO.: 22105841
REPORT DATE: 07-12-00
REVIEWED BY:

D A T A T A B L E (Cont.)

Surrogate Information -

	Percent Recovery	Range
aaa Trifluorotoluene	104.0	87-118
4-Bromoflurobenzene	100.0	91-109

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CLIENT MEVATEC
PO BOX 399, BLDG. 126
WSMR, NM 88002

SAMPLE NO.: 20002546
INVOICE NO.: 22105841
REPORT DATE: 07-12-00
REVIEWED BY: K
PAGE : 1 OF 3

CLIENT SAMPLE ID : 26030-MW04-0600 TB
SAMPLE TYPE .....: Water
SAMPLED BY .....: A.M.
SUBMITTED BY ....: G.W.
SAMPLE SOURCE ...: HELSTF POL Station
ANALYST .....: B. Murphy

AUTHORIZED BY : G. WATTERSON
CLIENT P.O. : --
SAMPLE DATE ...: 06-01-00
SUBMITTAL DATE : 06-02-00
EXTRACTION DATE: --
ANALYSIS DATE .: 06-08-00

Method 8260/5030B - Volatile Organics Waters

DATA TABLE

Parameter	Result	Unit	Detection Limit
Bromochloromethane	<1.0	ug/L	1.0
Dichlorodifluoromethane	<1.0	ug/L	1.0
Chloromethane	<1.0	ug/L	1.0
Vinyl chloride	<2.0	ug/L	2.0
Bromomethane	<5.0	ug/L	5.0
Chloroethane	<1.0	ug/L	1.0
Trichlorofluoromethane	<1.0	ug/L	1.0
1,1-Dichloroethene	<1.0	ug/L	1.0
Acetone	<100.0	ug/L	100.0
Methylene Chloride	<10.0	ug/L	10.0
Methyl-tert-Butyl Ether	<5.0	ug/L	5.0
trans-1,2-Dichloroethene	<1.0	ug/L	1.0
1,1-Dichloroethane	<1.0	ug/L	1.0
2-Butanone (MEK)	<50.0	ug/L	50.0
cis-1,2-Dichloroethene	<1.0	ug/L	1.0
2,2-Dichloropropane	<3.0	ug/L	3.0
1,2-Dichloroethane	<2.0	ug/L	2.0
Chloroform	1.4	ug/L	1.0
1,1,1-Trichloroethane	<1.0	ug/L	1.0
1,1-Dichloropropene	<1.0	ug/L	1.0
Benzene	<1.0	ug/L	1.0
Carbon Tetrachloride	<1.0	ug/L	1.0
1,2-Dichloropropane	<1.0	ug/L	1.0
Trichloroethene	<1.0	ug/L	1.0
Dibromomethane	<1.0	ug/L	1.0
Bromodichloromethane	<1.0	ug/L	1.0
cis-1,3-Dichloropropene	<1.0	ug/L	1.0
4-Methyl-2-pentanone (MIBK)	<50.0	ug/L	50.0
trans-1,3-Dichloropropene	<1.0	ug/L	1.0
Toluene	<1.0	ug/L	1.0

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ANALYTICAL REPORT

CLIENT MEVATEC
PO BOX 399, BLDG. 126
WSMR, NM 88002

SAMPLE NO. : 2000254
INVOICE NO.: 22105841
REPORT DATE: 07-12-00
REVIEWED BY:

DATA TABLE (Cont.)

Parameter	Result	Unit	Detection Limit
2-Hexanone	<50.0	ug/L	50.0
1,1,2-Trichloroethane	<1.0	ug/L	1.0
1,3-Dichloropropane	<1.0	ug/L	1.0
Dibromochloromethane	<1.0	ug/L	1.0
1,2-Dibromoethane	<1.0	ug/L	1.0
Tetrachloroethene	<1.0	ug/L	1.0
Chlorobenzene	<1.0	ug/L	1.0
1,1,1,2-Tetrachloroethane	<2.0	ug/L	2.0
Ethylbenzene	<2.0	ug/L	2.0
m,p-Xylenes	<2.0	ug/L	2.0
Bromoform	<1.0	ug/L	1.0
Styrene	<1.0	ug/L	1.0
o-Xylene	<1.0	ug/L	1.0
1,1,2,2-Tetrachloroethane	<1.0	ug/L	1.0
2-Chlorotoluene	<1.0	ug/L	1.0
1,2,3-Trichloropropane	<1.0	ug/L	1.0
Isopropylbenzene	<2.0	ug/L	2.0
Bromobenzene	<1.0	ug/L	1.0
n-Propylbenzene	<2.0	ug/L	2.0
1,3,5-Trimethylbenzene	<2.0	ug/L	2.0
tert-Butylbenzene	<1.0	ug/L	1.0
1,2,4-Trimethylbenzene	<10.0	ug/L	10.0
1,4-Dichlorobenzene	<2.0	ug/L	2.0
sec-Butylbenzene	<1.0	ug/L	1.0
1,3-Dichlorobenzene	<2.0	ug/L	2.0
p-Isopropyltoluene	<1.0	ug/L	1.0
4-Chlorotoluene	<1.0	ug/L	1.0
1,2-Dichlorobenzene	<2.0	ug/L	2.0
n-Butylbenzene	<3.0	ug/L	3.0
1,2-Dibromo-3-chloropropane	<5.0	ug/L	5.0
1,2,3-Trichlorobenzene	<5.0	ug/L	5.0
1,2,4-Trichlorobenzene	<5.0	ug/L	5.0
Napthalene	<5.0	ug/L	5.0
Hexachlorobutadiene	<5.0	ug/L	5.0

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ANALYTICAL REPORT

CLIENT MEVATEC
PO BOX 399, BLDG. 126
WSMR, NM 88002

SAMPLE NO. : 20002546
INVOICE NO.: 22105841
REPORT DATE: 07-12-00
REVIEWED BY: K
PAGE : 3 OF 3

D A T A T A B L E (Cont.)

Surrogate Information -

	Percent Recovery	Range
Dibromofluoromethane .....:	103.0	68-118
Toluene-d8 .....:	98.0	87-110
4-Bromofluorobenzene .....:	90.8	81-104

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E-Mail: lab@traceanalysis.com

CLIENT MEVATEC
PO BOX 399, BLDG. 126
WSMR, NM 88002

SAMPLE NO. : 20002545
INVOICE NO.: 22105841
REPORT DATE: 07-12-00
REVIEWED BY: K
PAGE : 1 OF 1

CLIENT SAMPLE ID : 26030-MW04-0600
SAMPLE TYPE .....: Water
SAMPLED BY .....: A.M.
SUBMITTED BY ....: G.W.
SAMPLE SOURCE ...: HELSTF POC Station TSA

AUTHORIZED BY : G. WATTERSON
CLIENT P.O. : --
SAMPLE DATE ...: 06-01-00
SUBMITTAL DATE : 06-02-00
EXTRACTION DATE: --

Dissolved Metals

DATA TABLE

Parameter	Result	Unit	Detection Limit	Analysis Date	Test Method	Analyst
Dissolved Calcium .....:	460	mg/L	50	06-12-00	SM 3111B	N. Munir
Dissolved Magnesium .....:	920	mg/L	50	06-12-00	SM 3111B	N. Munir
Dissolved Potassium .....:	29.	mg/L	2.0	06-12-00	SM 3111B	N. Munir
Dissolved Sodium .....:	5700	mg/L	100	06-12-00	SM 3111B	N. Munir
Dissolved Barium .....:	<0.05	mg/L	0.05	06-13-00	SW 6010B	N. Munir
Dissolved Boron .....:	1.7	mg/L	0.50	06-08-00	SW 6010B	N. Munir
Dissolved Iron .....:	<0.20	mg/L	0.20	06-12-00	SW 6010B	N. Munir
Dissolved Lithium .....:	0.72	mg/L	0.10	06-14-00	SW 6010B	N. Munir
Dissolved Manganese .....:	0.08	mg/L	0.05	06-12-00	SW 6010B	N. Munir
Dissolved Strontium .....:	7.1	mg/L	0.50	06-08-00	SW 6010B	N. Munir
Dissolved Uranium .....:	6.1	mg/L	5.0	06-14-00	SW 6010B	N. Munir
Dissolved Phosphorus .....:	<0.20	mg/L	0.20	07-08-00	6010B	N. Munir

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E-Mail: lab@traceanalysis.com

CLIENT MEVATEC
PO BOX 399, BLDG. 126
WSMR, NM 88002

SAMPLE NO. : 20002545
INVOICE NO.: 22105841
REPORT DATE: 07-12-00
REVIEWED BY: pc
PAGE : 1 OF 1

CLIENT SAMPLE ID : 26030-MW04-0600
SAMPLE TYPE .....: Water
SAMPLED BY .....: A.M.
SUBMITTED BY ....: G.W.
SAMPLE SOURCE ...: HELSTF POC Station TSA

AUTHORIZED BY : G. WATTERSON
CLIENT P.O. : --
SAMPLE DATE ...: 06-01-00
SUBMITTAL DATE : 06-02-00
EXTRACTION DATE: --

Metals - Liquid

DATA TABLE

Parameter	Result	Unit	Detection Limit	Analysis Date	Test Method	Analyst
Total Mercury .....:	<0.001	mg/L	0.001	06-05-00	E-245.1	N. Munir

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CLIENT MEVATEC
PO BOX 399, BLDG. 126
WSMR, NM 88002

SAMPLE NO. : 20002545
INVOICE NO.: 22105841
REPORT DATE: 07-12-00
REVIEWED BY: K
PAGE : 1 OF 2

CLIENT SAMPLE ID : 26030-MW04-0600
SAMPLE TYPE .....: Water
SAMPLED BY .....: A.M.
SUBMITTED BY ....: G.W.
SAMPLE SOURCE ...: HELSTF POC Station TSA

AUTHORIZED BY : G. WATTERSON
CLIENT P.O. : --
SAMPLE DATE ...: 06-01-00
SUBMITTAL DATE : 06-02-00
EXTRACTION DATE: --

REMARKS -

Sample run past hold time for Nitrate and pH.
Detection limits raised for Fluoride and Bromide due to diluition to aviod matrix interference.
Total Dissolved Solid sample was ran past hold time.

Inorganic Non-Metals

DATA TABLE

Parameter	Result	Unit	Detection Limit	Analysis Date	Test Method	Analyst
Bicarbonate .....:	380	mg/L	5.0	06-05-00	STD METH 2320 B	D.Guzman
Carbonate .....:	<5.0	mg/L	5.0	06-05-00	STD METH 2320 B	D.Guzman
Chloride .....:	6400	mg/L	200.	06-07-00	EPA 300.0	D. Guzman
Electrical Conductivity .....:	2800.	umhos/cm		06-05-00	STD METH 2510 B	P. Tarango
Fluoride .....:	<2.0	mg/L	2.0	06-07-00	EPA 300.0	D. Guzman
Nitrate Nitrogen .....:	88.	mg/L	1.0	06-07-00	EPA 300.0	D. Guzman
pH-performed in laboratory .....:	7.4	S.U.		06-05-00	STD METH 4500-H+	P. Tarango
Temp, C at time of pH .....:	22.1	degrees C		06-05-00		P. Tarango

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CLIENT MEVATEC
PO BOX 399, BLDG. 126
WSMR, NM 88002

SAMPLE NO. : 20002545
INVOICE NO.: 22105841
REPORT DATE: 07-12-00
REVIEWED BY: K
PAGE : 2 OF 2

DATA TABLE (Continue)

Parameter	Result	Unit	Detection Limit	Analysis Date	Test Method	Analyst
Sulfate .....:	15000	mg/L	200	06-13-00	EPA 300.0	D. Guzman
Total Dissolved Solids .....:	26000.	mg/L	50.	06-09-00	STD METH 2540 C	P. Tarango
Bromide .....:	<20.	mg/L	20.	06-07-00	EPA 300.0	D. Guzman
Chlorine (Free, Combined) .....:	<0.10	mg/L	0.10	06-02-00	STD METH 4500-Cl	D.Guzman
-not done in field .....:						

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CLIENT MEVATEC CORPORATION
P.O. Box 399, Bldg.126
WSMR, NM 88002

SAMPLE NO. : 20002545
INVOICE NO. : 22105841
REPORT DATE : 08-03-00
REVIEWED BY : JH
PAGE : 1 OF 1

CLIENT SAMPLE ID:	26030-MW04-0600	AUTHORIZED BY :	G. Watterson
SAMPLE TYPE :	Water	CLIENT P.O. :	
SAMPLED BY :	A.M.	SAMPLE DATE :	06/01/00
SUBMITTED BY :	A.M.	SUBMITTAL DATE :	06/02/00
SAMPLE SOURCE :	HELSTF POL Station	EXTRACTION DATE :	

REMARKS -

Supplemental report - Ammonia result omitted from original report

Inorganic Non-Metals

DATA TABLE

Parameter	Result	Unit	Detection Limit	Analysis Date	Test Method	Analyst
Ammonia Nitrogen	<2.0	mg/L	2.0	06-12-00	SM4500-NH_3 B,E	E. Castaneda

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Jerod Johnson
MANAGING DIRECTOR

60059

PO# 00B-2029

MEVATEC CORPORATION
P.O. Box 399
Bldg. 126
WSMR, NM 88002
(505) 678-0263

CHAIN OF CUSTODY RECORD

PAGE 1 OF 1

PROJECT NO.: 70089
PROJECT NAME: HELSTF TSA POL Station
SAMPLER'S SIGNATURE: Alejandro Martinez

DATE COLLECTED	TIME COLLECTED	SAMPLE ID	MATRIX	LAB NO.	NO. OF CONTAINERS	TPH-DRO	BTEX	MTBE	Poly Chlor.	Diss. Anions	Diss. Cations	Diss. Nutrients	Diss. Metals			REMARKS
06/01	1345	26030-MW01-0600	Water	20002547	14	✓	✓	✓	✓	✓	✓	✓	✓			

PROJECT INFORMATION	SAMPLES RECEIVED		1. RELINQUISHED BY: (SIGNATURE)	2. RELINQUISHED BY: (SIGNATURE)	3. RECEIVED BY LABORATORY: (SIGNATURE)
PROJECT MANAGER: Gregg Watterson	TOTAL NO. OF CONTAINERS		(PRINTED NAME) Alejandro Martinez	(PRINTED NAME)	(PRINTED NAME)
SHIPPING ID. NO.	CHAIN OF CUSTODY SEALS		RECEIVED BY:	RECEIVED BY:	(COMPANY) Trace
	GOOD CONDITION/CHILLED	5°C	(TIME / DATE) 8:20am 6-2-10	(TIME / DATE)	(TIME / DATE) 6/02/10 9:50
VIA: Lab Courier	CONFORMS TO RECORD		SPECIAL INSTRUCTIONS / COMMENTS: Please see attached Analyte List For Details		

PLEASE USE BALL POINT PEN

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E-Mail: lab@traceanalysis.com

REPORT SUMMARY

7/12/00

CLIENT: **MEVATEC**
PO Box 399, Bldg. 126
WSMR, NM 88002

SAMPLE DATE: 06/01/00

PROJECT ID: 700 B9 HELSTF TSA POL Station

ANALYSES REQUESTED: GRO, BTEX, Physical Char., Dissolved Anions, Dissolved Cations, Dissolved Nutrients, Dissolved Metals,

TEMPERATURE UPON RECEIPT: 5° Celsius
Temperature acceptance range for most analysis is 2 – 6 degrees Celsius.

CCV for benzene was out of the control limits by less than 1%. BFB surrogate did not meet QC criteria, however, TFT did meet the criteria. TDS ran out of hold time.

Laboratory analyses were performed on samples utilizing procedures published in Standards Methods for the Examination of Water and Wastewater, 18th Edition 1992; EPA Test Methods for Evaluating Solid Waste 3rd Edition, through December 1996 revisions; or EPA Methods for the Chemical Analysis of Water and Wastes[EPA-600/4-79-020], March 1983, and the latest promulgated updates. This is an integral part of the report and must be included with all copies.

Melissa Brooks

Melissa Brooks

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E-Mail: lab@traceanalysis.com

ANALYTICAL REPORT

CLIENT MEVATEC
PO BOX 399, BLDG. 126
WSMR, NM 88002

SAMPLE NO.: 20002547
INVOICE NO.: 22105840
REPORT DATE: 07-12-00
REVIEWED BY: K
PAGE : 1 OF 2

CLIENT SAMPLE ID : 26030-MW01-0600
SAMPLE TYPE .....: Water
SAMPLED BY .....: --
SUBMITTED BY ....: G.W.
SAMPLE SOURCE ...: HELSTF TSA POL Station
ANALYST .....: FEM

AUTHORIZED BY : G. WATTERSON
CLIENT P.O. : --
SAMPLE DATE ...: 06-01-00
SUBMITTAL DATE : 06-02-00
EXTRACTION DATE: --
ANALYSIS DATE .: 06-12-00

REMARKS -

Benzene percent Recovery in the closing calibration verification was out of the control limits by less than 1.0%. BFB surrogate did not meet QC criteria; however, TFT surrogate was within control limits.

Petroleum Contaminants by 8021B

DATA TABLE

Parameter	Result	Unit	Detection Limit
Benzene ..... :	<1.0	ug/L	1.0
Toluene ..... :	<1.0	ug/L	1.0
Ethylbenzene ..... :	<1.0	ug/L	1.0
Total Xylenes ..... :	<1.0	ug/L	1.0
Methyl Tert-Butyl Ether ..... :	<2.0	ug/L	2.0

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Melissa Brooks
MANAGING DIRECTOR

ANALYTICAL REPORT

CLIENT MEVATEC
PO BOX 399, BLDG. 126
WSMR, NM 88002

SAMPLE NO. : 2000254
INVOICE NO.: 22105840
REPORT DATE: 07-12-00
REVIEWED BY: k
PAGE : 2 OF 2

D A T A T A B L E (Cont.)

Surrogate Information -

	Percent Recovery	Range
aaa Trifluorotoluene .....:	97.6	87-118
4-Bromoflurobenzene .....:	95.7	91-109

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ANALYTICAL REPORT

CLIENT MEVATEC
PO BOX 399, BLDG. 126
WSMR, NM 88002

SAMPLE NO.: 20002547
INVOICE NO.: 22105840
REPORT DATE: 07-12-00
REVIEWED BY: m
PAGE : 1 OF 2

CLIENT SAMPLE ID : 26030-MW01-0600
SAMPLE TYPE .....: Water
SAMPLED BY .....: --
SUBMITTED BY ....: G.W.
SAMPLE SOURCE ...: HELSTF TSA POL Station
ANALYST .....: FEM

AUTHORIZED BY : G. WATTERSON
CLIENT P.O. : --
SAMPLE DATE ...: 06-01-00
SUBMITTAL DATE : 06-02-00
EXTRACTION DATE: --
ANALYSIS DATE .: 06-07-00

TPH Gas by Mod 8015

DATA TABLE

Parameter	Result	Unit	Detection Limit
TPH Gas .....:	<1.0	mg/L	1.0

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MANAGING DIRECTOR

ANALYTICAL REPORT

CLIENT MEVATEC
PO BOX 399, BLDG. 126
WSMR, NM 88002

SAMPLE NO. : 2000254
INVOICE NO.: 22105840
REPORT DATE: 07-12-00
REVIEWED BY:
PAGE : 2 OF 2

D A T A T A B L E (Cont.)

Surrogate Information -

	Percent Recovery	Range
1-ChloroOctane ..... :	110.0	80-120

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WSMR, NM 88002

SAMPLE NO. : 20002547
INVOICE NO.: 22105840
REPORT DATE: 07-12-00
REVIEWED BY: K
PAGE : 1 OF 2

CLIENT SAMPLE ID : 26030-MW01-0600
SAMPLE TYPE .....: Water
SAMPLED BY .....: --
SUBMITTED BY ....: G.W.
SAMPLE SOURCE ...: HELSTF TSA POL Station

AUTHORIZED BY : G. WATTERSON
CLIENT P.O. : --
SAMPLE DATE ...: 06-01-00
SUBMITTAL DATE : 06-02-00
EXTRACTION DATE: --

REMARKS -

Total Dissolved Solid sample was ran past hold time.

Inorganic Non-Metals

DATA TABLE

Parameter	Result	Unit	Detection Limit	Analysis Date	Test Method	Analyst
Ammonia Nitrogen .....:	<2.0	mg/L	2.0	06-12-00	SM4500-NH3 B,E	E. Castaneda
Bicarbonate .....:	<5.0	mg/L	5.0	06-05-00	STD METH 2320 B	D.Guzman
Carbonate .....:	<5.0	mg/L	5.0	06-05-00	STD METH 2320 B	D.Guzman
Chloride .....:	810	mg/L	200.	06-07-00	EPA 300.0	D. Guzman
Electrical Conductivity .....:	9300.	umhos/cm		06-05-00	STD METH 2510 B	P. Tarango
Fluoride .....:	0.24	mg/L	0.20	06-02-00	EPA 300.0	D.Guzman
Nitrate Nitrogen .....:	12.	mg/L	0.10	06-02-00	EPA 300.0	D.Guzman
pH-performed in laboratory .....:	7.5	S.U.		06-02-00	STD METH 4500-H+	P. Tarango
Temp, C: at time of pH .....:	17.8	degrees C		06-02-00		P. Tarango

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ANALYTICAL REPORT

CLIENT MEVATEC
PO BOX 399, BLDG. 126
WSMR, NM 88002

SAMPLE NO. : 20002547
INVOICE NO.: 22105840
REPORT DATE: 07-12-00
REVIEWED BY: k
PAGE : 2 OF 2

D A T A T A B L E (Continue)

Parameter	Result	Unit	Detection Limit	Analysis Date	Test Method	Analyst
Sulfate .....:	4700	mg/L	100.	06-07-00	EPA 300.0	D. Guzman
Total Dissolved Solids .....:	8200.	mg/L	50.	06-09-00	STD METH 2540 C	P. Tarango
Bromide .....:	<2.0	mg/L	2.0	06-02-00	EPA 300.0	D.Guzman

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WSMR, NM 88002

SAMPLE NO. : 20002547
INVOICE NO.: 22105840
REPORT DATE: 07-12-00
REVIEWED BY:
PAGE : 1 OF 1

CLIENT SAMPLE ID : 26030-MW01-0600
SAMPLE TYPE .....: Water
SAMPLED BY .....: --
SUBMITTED BY ....: G.W.
SAMPLE SOURCE ...: HELSTF TSA POL Station

AUTHORIZED BY : G. WATTERSON
CLIENT P.O. : --
SAMPLE DATE ...: 06-01-00
SUBMITTAL DATE : 06-02-00
EXTRACTION DATE: --

Dissolved Metals

DATA TABLE

Parameter	Result	Unit	Detection Limit	Analysis Date	Test Method	Analyst
Dissolved Calcium .....:	360	mg/L	50	06-12-00	SM 3111B	N. Munir
Dissolved Magnesium .....:	280	mg/L	20	06-12-00	SM 3111B	N. Munir
Dissolved Potassium .....:	12.	mg/L	1.0	06-12-00	SM 3111B	N. Munir
Dissolved Sodium .....:	1600	mg/L	20	06-12-00	SM 3111B	N. Munir
Dissolved Barium .....:	<0.05	mg/L	0.05	06-13-00	SW 6010B	N. Munir
Dissolved Boron .....:	1.0	mg/L	0.10	06-08-00	SW 6010B	N. Munir
Dissolved Iron .....:	<0.20	mg/L	0.20	06-12-00	SW 6010B	N. Munir
Dissolved Lithium .....:	0.43	mg/L	0.10	06-14-00	SW 6010B	N. Munir
Dissolved Manganese .....:	<0.05	mg/L	0.05	06-12-00	SW 6010B	N. Munir
Dissolved Strontium .....:	6.6	mg/L	0.20	06-08-00	SW 6010B	N. Munir
Dissolved Uranium .....:	5.9	mg/L	5.0	06-14-00	SW 6010B	N. Munir
Dissolved Phosphorus .....:	<0.20	mg/L	0.20	07-08-00	6010B	N. Munir

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WSMR, NM 88002

SAMPLE NO. : 20002547
INVOICE NO.: 22105840
REPORT DATE: 07-12-00
REVIEWED BY: K
PAGE : 1 OF 1

CLIENT SAMPLE ID : 26030-MW01-0600
SAMPLE TYPE .....: Water
SAMPLED BY .....: --
SUBMITTED BY ....: G.W.
SAMPLE SOURCE ...: HELSTF TSA POL Station

AUTHORIZED BY : G. WATTERSON
CLIENT P.O. : --
SAMPLE DATE ...: 06-01-00
SUBMITTAL DATE : 06-02-00
EXTRACTION DATE: --

Metals - Liquid

DATA TABLE

Parameter	Result	Unit	Detection Limit	Analysis Date	Test Method	Analyst
Total Mercury .....:	<0.001	mg/L	0.001	06-05-00	E-245.1	N. Munir

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PO# 00B-2029

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P.O. Box 399
Bldg. 126
WSMR, NM 88002
(505) 678-0263

CHAIN OF CUSTODY RECORD

PAGE 1 OF 1

PROJECT NO.: 70039

PROJECT NAME: HELSTF TSA POL Station

SAMPLER'S SIGNATURE: Alejandro Mc

DATE COLLECTED	TIME COLLECTED	SAMPLE ID	MATRIX	LAB NO.	NO. OF CONTAINERS	TPH - DRO	BTEX	MTBE	Dis. Cations	Dis. Anions	Dis. Cations	Diss. Mat.	Diss. Metals			REMARKS
06/01	1253	26030-MW03-0600	water	20002548	14	✓	✓	✓	✓	✓	✓	✓	✓			

PROJECT INFORMATION	SAMPLES RECEIVED		1. RELINQUISHED BY: (SIGNATURE)	2. RELINQUISHED BY: (SIGNATURE)	3. RECEIVED BY-LABORATORY: (SIGNATURE)
PROJECT MANAGER: Greg Watterson	TOTAL NO. OF CONTAINERS		(PRINTED NAME) Alejandro Martinez	(PRINTED NAME)	(PRINTED NAME)
SHIPPING ID. NO.	CHAIN OF CUSTODY SEALS		RECEIVED BY:	RECEIVED BY:	(COMPANY) Trace
	GOOD CONDITION/CHILLED	5°C	(TIME / DATE) 8:20am 6/2/01	(TIME / DATE)	(TIME / DATE) 6/02/01 9:50
VIA: Lab Courier	CONFORMS TO RECORD		SPECIAL INSTRUCTIONS / COMMENTS: Please see attached Analytical list for Details		

PLEASE USE BALL POINT PEN

DISTRIBUTION: WHITE - PROJECT FILES; YELLOW - LAB; PINK - FIELD COPY

TRACEANALYSIS, INC.

6701 Aberdeen Avenue, Suite 9 Lubbock, Texas 79424 800•378•1296 806•794•1296 FAX 806•794•1298
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E-Mail: lab@traceanalysis.com

REPORT SUMMARY

7/12/00

CLIENT: **MEVATEC**
PO Box 399, Bldg. 126
WSMR, NM 88002

SAMPLE DATE: 0601/00

PROJECT ID: 700 B9 HELSTF TSA POL Station

ANALYSES REQUESTED: GRO, BTEX, Physical Char., Dissolved Anions, Dissolved Cations, Dissolved Nutrients, Dissolved Metals

TEMPERATURE UPON RECEIPT: 5° Celsius
Temperature acceptance range for most analysis is 2 – 6 degrees Celsius.

CCV for benzene was out of the control limits by less than 1%. BFB surrogate did not meet QC criteria, however, TFT did meet the criteria. TDS was run past hold time.

Laboratory analyses were performed on samples utilizing procedures published in Standards Methods for the Examination of Water and Wastewater, 18th Edition 1992; EPA Test Methods for Evaluating Solid Waste 3rd Edition, through December 1996 revisions; or EPA Methods for the Chemical Analysis of Water and Wastes[EPA-600/4-79-020], March 1983, and the latest promulgated updates. This is an integral part of the report and must be included with all copies.

Melissa Brooks

Melissa Brooks

TRACEANALYSIS, INC.

ANALYTICAL REPORT

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E-Mail: lab@traceanalysis.com

CLIENT MEVATEC
PO BOX 399, BLDG. 126
WSMR, NM 88002

SAMPLE NO.: 20002548
INVOICE NO.: 22105839
REPORT DATE: 07-12-00
REVIEWED BY:
PAGE : 1 OF 2

CLIENT SAMPLE ID : 26030 MW03-0600
SAMPLE TYPE .....: Water
SAMPLED BY .....: --
SUBMITTED BY ....: --
SAMPLE SOURCE ...: HELSTF TSA POC Station
ANALYST .....: FEM

AUTHORIZED BY : G. WATTERSON
CLIENT P.O. : --
SAMPLE DATE ...: 06-01-00
SUBMITTAL DATE : 06-05-00
EXTRACTION DATE: --
ANALYSIS DATE .: 06-12-00

REMARKS -

Benzene percent Recovery in the closing calibration verification was out of the control limits by less than 1.0%. BFB surrogate did not meet QC criteria; however, TFT surrogate was within contol limits.

Petroleum Contaminants by 8021B

DATA TABLE

Parameter	Result	Unit	Detection Limit
Benzene	<1.0	ug/L	1.0
Toluene	<1.0	ug/L	1.0
Ethylbenzene	<1.0	ug/L	1.0
Total Xylenes	<1.0	ug/L	1.0
Methyl Tert-Butyl Ether	<2.0	ug/L	2.0

ANALYTICAL RESULT(S) REPORTED HEREIN APPLY ONLY TO THE SAMPLE(S) TESTED. FURTHERMORE, THIS REPORT CAN ONLY BE COPIED IN ITS ENTIRETY

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Melissa Brook
MANAGING DIRECTOR

ANALYTICAL REPORT

CLIENT MEVATEC
PO BOX 399, BLDG. 126
WSMR, NM 88002

SAMPLE NO. : 20002548
INVOICE NO.: 22105839
REPORT DATE: 07-12-00
REVIEWED BY: W
PAGE : 2 OF 2

D A T A T A B L E (Cont.)

Surrogate Information -

	Percent Recovery	Range
aaa Trifluorotoluene ..... :	100.0	87-118
4-Bromoflurobenzene ..... :	99.2	91-109

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E-Mail: lab@traceanalysis.com

CLIENT MEVA/TRC
PO BOX 399, BLDG. 126
WSMR, NM 88002

SAMPLE NO.: 20002548
INVOICE NO.: 22105839
REPORT DATE: 07-12-00
REVIEWED BY: M
PAGE : 1 OF 2

CLIENT SAMPLE ID : 26030 MW03-0600
SAMPLE TYPE .....: Water
SAMPLED BY .....: --
SUBMITTED BY ....: --
SAMPLE SOURCE ...: HELSTF TSA POC Station
ANALYST .....: FEM

AUTHORIZED BY : G. WATTERSON
CLIENT P.O. : --
SAMPLE DATE ...: 06-01-00
SUBMITTAL DATE : 06-05-00
EXTRACTION DATE: --
ANALYSIS DATE .: 06-07-00

TPH Gas by Mod 8015

DATA TABLE

Parameter	Result	Unit	Detection Limit
TPH Gas .....:	<1.0	mg/L	1.0

ANALYTICAL RESULT(S) REPORTED HEREIN APPLY ONLY TO THE SAMPLE(S) TESTED. FURTHERMORE, THIS REPORT CAN ONLY BE COPIED IN ITS ENTIRETY

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Melissa Brooks
MANAGING DIRECTOR

ANALYTICAL REPORT

CLIENT MEVATEC
PO BOX 399, BLDG. 126
WSMR, NM 88002

SAMPLE NO. : 20002548
INVOICE NO.: 22105839
REPORT DATE: 07-12-00
REVIEWED BY: K
PAGE : 2 OF 2

D A T A T A B L E (Cont.)

Surrogate Information -

	Percent Recovery	Range
1-ChloroOctane ..... :	103.0	80-120

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E-Mail: lab@traceanalysis.com

CLIENT MEVATEC
PO BOX 399, BLDG. 126
WSMR, NM 88002

SAMPLE NO. : 20002548
INVOICE NO.: 22105839
REPORT DATE: 07-12-00
REVIEWED BY:
PAGE : 1 OF 2

CLIENT SAMPLE ID : 26030 MW03-0600
SAMPLE TYPE .....: Water
SAMPLED BY .....: --
SUBMITTED BY ....: --
SAMPLE SOURCE ...: HELSTF TSA POC Station

AUTHORIZED BY : G. WATTERSON
CLIENT P.O. : --
SAMPLE DATE ...: 06-01-00
SUBMITTAL DATE : 06-05-00
EXTRACTION DATE: --

REMARKS -

Total Dissolved Solid sample was ran past hold time.

Inorganic Non-Metals

DATA TABLE

Parameter	Result	Unit	Detection Limit	Analysis Date	Test Method	Analyst
Ammonia Nitrogen	<2.0	mg/L	2.0	06-12-00	SM4500-NH3 B,E	E. Castaneda
Bicarbonate	130	mg/L	5.0	06-05-00	STD METH 2320 B	D.Guzman
Carbonate	<5.0	mg/L	5.0	06-05-00	STD METH 2320 B	D.Guzman
Chloride	840	mg/L	200.	06-07-00	EPA 300.0	D. Guzman
Electrical Conductivity	9500.	umhos/cm		06-05-00	STD METH 2510 B	P. Tarango
Fluoride	0.26	mg/L	0.20	06-02-00	EPA 300.0	D.Guzman
Nitrate Nitrogen	12.	mg/L	0.10	06-02-00	EPA 300.0	D.Guzman
pH-performed in laboratory	7.6	S.U.		06-02-00	STD METH 4500-H+	P. Tarango
Temp, C: at time of pH	21.7	degrees C		06-02-00		P. Tarango

ANALYTICAL RESULT(S) REPORTED HEREIN APPLY ONLY TO THE SAMPLE(S) TESTED. FURTHERMORE, THIS REPORT CAN ONLY BE COPIED IN ITS ENTIRETY

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Melissa Brooke

ANALYTICAL REPORT

CLIENT MEVATEC
PO BOX 399, BLDG. 126
WSMR, NM 88002

SAMPLE NO. : 20002548
INVOICE NO.: 22105839
REPORT DATE: 07-12-00
REVIEWED BY: e

D A T A T A B L E (Continue)

Parameter	Result	Unit	Detection Limit	Analysis Date	Test Method	Analyst
Sulfate .....:	4600	mg/L	100.	06-07-00	EPA 300.0	D. Guzman
Total Dissolved Solids .....:	8500.	mg/L	50.	06-09-00	STD METH 2540 C	P. Tarango
Bromide .....:	<2.0	mg/L	2.0	06-02-00	EPA 300.0	D.Guzman

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E-Mail: lab@traceanalysis.com

CLIENT MEVATEC
PO BOX 399, BLDG. 126
WSMR, NM 88002

SAMPLE NO. : 20002548
INVOICE NO.: 22105839
REPORT DATE: 07-12-00
REVIEWED BY: K
PAGE : 1 OF 1

CLIENT SAMPLE ID : 26030 MW03-0600
SAMPLE TYPE .....: Water
SAMPLED BY .....: --
SUBMITTED BY ....: --
SAMPLE SOURCE ...: HELSTF TSA POC Station

AUTHORIZED BY : G. WATTERSON
CLIENT P.O. : --
SAMPLE DATE ...: 06-01-00
SUBMITTAL DATE : 06-05-00
EXTRACTION DATE: --

Metals - Liquid

DATA TABLE

Parameter	Result	Unit	Detection Limit	Analysis Date	Test Method	Analyst
Total Mercury	<0.001	mg/L	0.001	06-05-00	E-245.1	N. Munir

ANALYTICAL RESULT(S) REPORTED HEREIN APPLY ONLY TO THE SAMPLE(S) TESTED. FURTHERMORE, THIS REPORT CAN ONLY BE COPIED IN ITS ENTIRETY

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E-Mail: lab@traceanalysis.com

CLIENT MEVATEC
PO BOX 399, BLDG. 126
WSMR, NM 88002

SAMPLE NO. : 20002548
INVOICE NO.: 22105839
REPORT DATE: 07-12-00
REVIEWED BY:
PAGE : 1 OF 1

CLIENT SAMPLE ID : 26030 MW03-0600
SAMPLE TYPE .....: Water
SAMPLED BY .....: --
SUBMITTED BY ....: --
SAMPLE SOURCE ...: HELSTF TSA POC Station

AUTHORIZED BY : G. WATTERSON
CLIENT P.O. : --
SAMPLE DATE ...: 06-01-00
SUBMITTAL DATE : 06-05-00
EXTRACTION DATE: --

Dissolved Metals

DATA TABLE

Parameter	Result	Unit	Detection Limit	Analysis Date	Test Method	Analyst
Dissolved Calcium .....:	360	mg/L	50	06-12-00	SM 3111B	N. Munir
Dissolved Magnesium .....:	300	mg/L	20	06-12-00	SM 3111B	N. Munir
Dissolved Potassium .....:	12.	mg/L	1.0	06-12-00	SM 3111B	N. Munir
Dissolved Sodium .....:	1500	mg/L	20	06-12-00	SM 3111B	N. Munir
Dissolved Barium .....:	<0.05	mg/L	0.05	06-13-00	SW 6010B	N. Munir
Dissolved Boron .....:	1.0	mg/L	0.10	06-08-00	SW 6010B	N. Munir
Dissolved Iron .....:	<0.20	mg/L	0.20	06-12-00	SW 6010B	N. Munir
Dissolved Lithium .....:	0.42	mg/L	0.10	06-14-00	SW 6010B	N. Munir
Dissolved Manganese .....:	0.07	mg/L	0.05	06-12-00	SW 6010B	N. Munir
Dissolved Strontium .....:	6.2	mg/L	0.20	06-08-00	SW 6010B	N. Munir
Dissolved Uranium .....:	8.6	mg/L	5.0	06-14-00	SW 6010B	N. Munir
Dissolved Phosphorus .....:	<0.20	mg/L	0.20	07-08-00	6010B	N. Munir

ANALYTICAL RESULT(S) REPORTED HEREIN APPLY ONLY TO THE SAMPLE(S) TESTED. FURTHERMORE, THIS REPORT CAN ONLY BE COPIED IN ITS ENTIRETY

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Melissa Beck

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E-Mail: lab@traceanalysis.com

September 19, 2000

Mevatec Corporation
Bldg. 126, 3rd Floor
WSMR, NM 88002

Attn: Chris Whitman

Dear Mr. Whitman

Enclosed are the analytical results from the samples that were reran in our Lubbock laboratory for uranium. Your sample identifications are as follows:

20002544-26030-MW02-06-00

20002544-26030-MW02-06-00

20002544-26030-MW02-06-00

20002544-26030-MW02-06-00

These results are below our detection limits. The original analysis was ran in our El Paso laboratory and yielded higher results. We only recently started analyzing for uranium in El Paso. Although the quality control checks were fine, we feel that the original results are in error, probably due to matrix interference problems from the high salt levels in the samples. Our laboratory in Lubbock has been performing uranium analysis for a much longer period of time, and they are used to testing brine waters used in the oil field.

If you have any questions concerning this matter, please call.

Sincerely,

Randy R. Peck
TraceAnalysis, Inc.

TRACEANALYSIS, INC.

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4725 Ripley Avenue, Suite A El Paso, Texas 79922 888•588•3443 915•585•3443 FAX 915•585•4944
E-Mail: lab@traceanalysis.com

Analytical and Quality Control Report

Report Date: September 7, 2000

Mevatec
P.O. Box 399 Bldg. 126
WSMR, NM 88002

Order ID Number: A00090117

Project Number: 700B9
Project Name: HELSTF TSA POL Station
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
152814	20002544-26030-MW02-06 00	Water	6/1/00	16:39	9/1/00

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.

This report consists of a total of 3 pages and shall not be reproduced except in its entirety, without written approval of TraceAnalysis, Inc.

Dr. Blair Leftwich, Director

Analytical and Quality Control Report

Sample: 152814 - 20002544–26030-MW02-06 00

Analysis:	Dissolved Metals	Analytical Method:	S 6010B	QC Batch:	QC04722	Date Analyzed:	9/6/00
Analyst:	RR	Preparation Method:	E 3005A	Prep Batch:	PB04060	Date Prepared:	9/5/00

Param	Flag	Result	Units	Dilution	RDL
Dissolved Uranium		<0.50	mg/L	1	0.50

Quality Control Report
Method Blank

Sample: Method Blank QCBatch: QC04722

Param	Flag	Results	Units	Reporting Limit
Dissolved Uranium		<0.50	mg/L	0.50

Quality Control Report
Lab Control Spikes and Duplicate Spikes

Sample: LCS QC Batch: QC04722

Param	Flag	Sample Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec.	RPD	% Rec. Limit	RPD Limit
Dissolved Uranium	[1]	1.03	mg/L	1	1	<0.50	103		75 - 125	20

Sample: LCSD QC Batch: QC04722

Param	Flag	Sample Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec.	RPD	% Rec. Limit	RPD Limit
Dissolved Uranium	[2]	1.03	mg/L	1	1	<0.50	103	0	75 - 125	20

Quality Control Report

[1] No matrix spike due to insufficient sample amount, used LCS and LCSD.
[2] No matrix spike due to insufficient sample amount, used LCS and LCSD.

Continuing Calibration Verification Standards

Sample: CCV (1)

QC Batch: QC04722

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Dissolved Uranium		mg/L	2.50	2.56	102	75 - 125	9/6/00

Sample: ICV (1)

QC Batch: QC04722

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Dissolved Uranium		mg/L	2.50	2.47	99	75 - 125	9/6/00

HLW-TDW 60207

PO# ØØB-2Ø29

MEVATEC CORPORATION
P.O. Box 399
Bldg. 126
WSMR, NM 88002
(505) 678-0263

CHAIN OF CUSTODY RECORD

PAGE 1 OF 1

PROJECT NO.: 70039

PROJECT NAME: HELSTF TSA POL Station

SAMPLER'S SIGNATURE: Alejandro Martinez

DATE COLLECTED	TIME COLLECTED	SAMPLE ID	MATRIX	LAB NO.	NO. OF CONTAINERS	TPH-DRO	BTEX	MTBE	Phy. Chem.	Diss. Anions	Diss. Cations	Diss. Nutrients	Diss. Metals			REMARKS
06/01	1639	26030-MW02-06 ∞	water	~~20000~~2544	14	✓	✓	✓	✓	✓	✓	✓	✓			152.814

PROJECT INFORMATION			1. RELINQUISHED BY: (SIGNATURE)	2. RELINQUISHED BY: (SIGNATURE)	3. RECEIVED BY LABORATORY: (SIGNATURE)
PROJECT MANAGER: Greg Walterson	SAMPLES RECEIVED		(PRINTED NAME) Alejandro Martinez	(PRINTED NAME)	(PRINTED NAME)
SHIPPING ID. NO.	TOTAL NO. OF CONTAINERS		RECEIVED BY:	RECEIVED BY:	(COMPANY) Trace
VIA: Hand Courier	CHAIN OF CUSTODY SEALS		(TIME / DATE) 8:20 am 6-2-00	(TIME / DATE)	(TIME / DATE) 6/02/00 9:40
	GOOD CONDITION/CHILLED	5°C	SPECIAL INSTRUCTIONS / COMMENTS: Please see attached Analytical List for Details		
	CONFORMS TO RECORD				

PLEASE USE BALL POINT PEN

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Tel (806) 794-1296
Fax (806) 794-1298
1 (800) 378-1296

TraceAnalysis, Inc.

4725 Mesley Dr., Ste A
El Paso, Texas 79922-1023
Tel (915) 585-3443
Fax (915) 585-4944

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

LAB Order ID # A0009011

152814

SECONDARY CHAIN-OF-CUSTODY

Lab Use Only
Intact: Y/N
Headspace: Y/N
Temp.
Log-In Review

: TRACEANALYSIS - LUBBOCK

ROM: TRACEANALYSIS - EL PASO

ANALYSIS REQUEST
(Circle or Specify Method No.)

Lubbock Lab Number	El Paso Lab Number	# CONTAINERS	Volume/Amount	MATRIX: WATER	MATRIX: SOIL	MATRIX: AIR	MATRIX: SLUDGE	PRESERVATIVE METHOD: HCL	HNO3	ICE	NONE	MTBE 8021B/602	BTEX 8021B/602	TPH 418.1/1005	PAH 8270C	Total Metals Ag As Ba Cd Cr Pb Se Hg 6010B/200.7	TCLP Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Volatiles	TCLP Semi Volatiles	TCLP Pesticides	RCI	GC-MS Vol. 8260B/624	GC/MS Semi. Vol. 8270C/625	PCBs 8082/608	Pesticides 8081A/608	TDS, TSS, pH	Total Uranium									Turn Around Time if different from standard
152814	20002544	1		X																							X								

Paso Relinquished by: Luciano Muñoz 8/31/00 Date: Time:

Lubbock Received at Laboratory by: Vicki Owsley 9-1-00 Date: Time:

REMARKS:

TRACEANALYSIS, INC.

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4725 Ripley Avenue, Suite A El Paso, Texas 79922 888•588•3443 915•585•3443 FAX 915•585•4944
E-Mail: lab@traceanalysis.com

Analytical and Quality Control Report

Report Date: September 7, 2000

Mevatec
P.O. Box 399 Bldg. 126
WSMR, NM 88002

Order ID Number: A00090118

Project Number: 700B9
Project Name: HELSTF TSA POL Station
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
152815	20002545-26030-MW04-0600	Water	6/1/00	12:06	9/1/00

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.

This report consists of a total of 3 pages and shall not be reproduced except in its entirety, without written approval of TraceAnalysis, Inc.

Dr. Blair Leftwich, Director

Analytical and Quality Control Report

Sample: 152815 - 20002545-26030-MW04-0600

Analysis:	Dissolved Metals	Analytical Method:	S 6010B	QC Batch:	QC04722	Date Analyzed:	9/6/00
Analyst:	RR	Preparation Method:	E 3005A	Prep Batch:	PB04060	Date Prepared:	9/5/00

Param	Flag	Result	Units	Dilution	RDL
Dissolved Uranium		<0.50	mg/L	1	0.50

Quality Control Report
Method Blank

Sample: Method Blank QCBatch: QC04722

Param	Flag	Results	Units	Reporting Limit
Dissolved Uranium		<0.50	mg/L	0.50

Quality Control Report
Lab Control Spikes and Duplicate Spikes

Sample: LCS QC Batch: QC04722

Param	Flag	Sample Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec.	RPD	% Rec. Limit	RPD Limit
Dissolved Uranium	[1]	1.03	mg/L	1	1	<0.50	103		75 - 125	20

Sample: LCSD QC Batch: QC04722

Param	Flag	Sample Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec.	RPD	% Rec. Limit	RPD Limit
Dissolved Uranium	[2]	1.03	mg/L	1	1	<0.50	103	0	75 - 125	20

Quality Control Report

[1] No matrix spike due to insufficient sample amount, used LCS and LCSD.
[2] No matrix spike due to insufficient sample amount, used LCS and LCSD.

Continuing Calibration Verification Standards

Sample: CCV (1) QC Batch: QC04722

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Dissolved Uranium		mg/L	2.50	2.56	102	75 - 125	9/6/00

Sample: ICV (1) QC Batch: QC04722

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Dissolved Uranium		mg/L	2.50	2.47	99	75 - 125	9/6/00

1711 Aberdeen Ave, Ste 9
Lubbock Texas 79424
Tel (806) 794-1296
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1 (800) 378-1296

TraceAnalysis, Inc.

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El Paso, Texas 79922-1028
Tel (915) 585-3443
Fax (915) 585-4944
1 (800) 585-3443

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

LAB Order ID # A0008011 8

152815

SECONDARY CHAIN-OF-CUSTODY

TRACEANALYSIS - LUBBOCK

Lubbock Lab Use Only
Intact: Y/N
Headspace: Y/N
Temp.
Log-In Review

OM: TRACEANALYSIS - EL PASO

ANALYSIS REQUEST
(Circle or Specify Method No.)

Lubbock Lab Number	El Paso Lab Number	# CONTAINERS	Volume/Amount	MATRIX: WATER	MATRIX: SOIL	MATRIX: AIR	MATRIX: SLUDGE	PRESERVATIVE METHOD: HCL	HNO3	ICE	NONE	MTBE 8021B/602	BTEX 8021B/602	TPH 418.1/TX1005	PAH 8270C	Total Metals Ag Al As Ba Cd Cr Pb Se Hg 6010B/200.7	TCLP Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Volatiles	TCLP Semi Volatiles	TCLP Pesticides	RCI	GC-MS Vol. 8260B/624	GC/MS Semi. Vol. 8270C/625	PCB's 8082/608	Pesticides 8081A/608	BOD, TSS, pH	Total Uranium								Turn Around Time if different from standard
152815	20002545	1		1																															

so Relinquished by: Date: Time:
Lucinda Duran 8/31/00 1600

Lubbock Received at Laboratory by: Date: Time:
Vicki Kenoly 9-1-00

REMARKS:

A0090118 60208

PO#: 00-2029

MEVATEC CORPORATION

P.O. Box 399
Bldg. 126
WSMR, NM 88002
(505) 678-0263

CHAIN OF CUSTODY RECORD

PROJECT NO.: 700 89

PROJECT NAME: HELSTF POL Station TSA

SAMPLER'S SIGNATURE: Alejandro G Martinez

DATE COLLECTED	TIME COLLECTED	SAMPLE ID	MATRIX	2000 LAB NO.	NO. OF CONTAINERS	VOC's	TPH-GRO	BTEX	MTBE	SVOC's	Phy Char.	Diss Anions	Diss Cations	Diss. Nutrients	Diss Metals	Chlorinated Water Test	REMARKS
06/01/00	1206	26030-MW04-0600	water	[redacted]	18	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	152815
06/01/00	1206	26030-MW04-0600-TB	water	2000 2546	2												

PROJECT INFORMATION			1. RELINQUISHED BY: (SIGNATURE)	2. RELINQUISHED BY: (SIGNATURE)	3. RECEIVED BY LABORATORY: (SIGNATURE)
PROJECT MANAGER / TC Greg Watterson	SAMPLES RECEIVED		Alejandro Martinez		Luis Duena
	TOTAL NO. OF CONTAINERS		(PRINTED NAME) Alejandro Martinez	(PRINTED NAME)	(PRINTED NAME)
SHIPPING ID. NO.	CHAIN OF CUSTODY SEALS		RECEIVED BY: Karen Cook	RECEIVED BY:	(COMPANY) Trace
	GOOD CONDITION/CHILLED	5°	(TIME / DATE) 8:20 Jun 6-2-00	(TIME / DATE)	(TIME / DATE) 6/02/00 9:50
VIA:	CONFORMS TO RECORD		SPECIAL INSTRUCTIONS / COMMENTS: Please See attached Analytical List for Details		

PLEASE USE BALL POINT PEN

DISTRIBUTION: WHITE - PROJECT FILES; YELLOW - L PINK - FIELD COPY

TRACEANALYSIS, INC.

6701 Aberdeen Avenue, Suite 9 Lubbock, Texas 79424 800•378•1296 806•794•1296 FAX 806•794•1298
4725 Ripley Avenue, Suite A El Paso, Texas 79922 888•588•3443 915•585•3443 FAX 915•585•4944
E-Mail: lab@traceanalysis.com

Analytical and Quality Control Report

Report Date: September 7, 2000

Mevatec
P.O. Box 399 Bldg. 126
WSMR, NM 88002

Order ID Number: A00090119

Project Number: 700B9
Project Name: HELSTF TSA POL Station
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
152816	20002547-26030-MW01-0600	Water	6/1/00	13:45	9/1/00

These results represent only the samples received in the laboratory. The Quality Control Report is generated on a batc basis. All information contained in this report is for the analytical batch(es) in which your sample(s) were analyzed.

This report consists of a total of 3 pages and shall not be reproduced except in its entirety, without written approval of TraceAnalysis, Inc.

Dr. Blair Leftwich, Director

Analytical and Quality Control Report

Sample: 152816 - 20002547-26030-MW01-0600

Analysis:	Dissolved Metals	Analytical Method:	S 6010B	QC Batch:	QC04722	Date Analyzed:	9/6/00
Analyst:	RR	Preparation Method:	E 3005A	Prep Batch:	PB04060	Date Prepared:	9/5/00

Param	Flag	Result	Units	Dilution	RDL
Dissolved Uranium		<0.50	mg/L	1	0.50

Quality Control Report
Method Blank

Sample: Method Blank QCBatch: QC04722

Param	Flag	Results	Units	Reporting Limit
Dissolved Uranium		<0.50	mg/L	0.50

Quality Control Report
Lab Control Spikes and Duplicate Spikes

Sample: LCS QC Batch: QC04722

Param	Flag	Sample Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec.	RPD	% Rec. Limit	RPD Limit
Dissolved Uranium	[1]	1.03	mg/L	1	1	<0.50	103		75 - 125	20

Sample: LCSD QC Batch: QC04722

Param	Flag	Sample Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec.	RPD	% Rec. Limit	RPD Limit
Dissolved Uranium	[2]	1.03	mg/L	1	1	<0.50	103	0	75 - 125	20

Quality Control Report

[1] No matrix spike due to insufficient sample amount, used LCS and LCSD.
[2] No matrix spike due to insufficient sample amount, used LCS and LCSD.

Continuing Calibration Verification Standards

Sample: CCV (1) QC Batch: QC04722

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Dissolved Uranium		mg/L	2.50	2.56	102	75 - 125	9/6/00

Sample: ICV (1) QC Batch: QC04722

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Dissolved Uranium		mg/L	2.50	2.47	99	75 - 125	9/6/00

701 Aberdeen Ave, Ste P
Lubbock, Texas 79424
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1 (800) 378-1296

TraceAnalysis, Inc.

472[illegible] Dr., Ste A
El Pas[illegible] 79922-1028
Tel (915) 585-3443
Fax (915) 585-4944
1 (888) 588-3443

CHAIN-OF-CUSTODY AND ANALYS[illegible] EQUEST

LAB Order ID # A0009 0119

152816

SECONDARY CHAIN-OF-CUSTODY

: TRACEANALYSIS - LUBBOCK

OM: TRACEANALYSIS - EL PASO

Lubbock Lab Use Only	
Intact:	Y / N
Headspace:	Y / N
Temp.	
Log-In Review	

ANALYSIS REQUEST
(Circle or Specify Meti od No.)

Lubbock Lab Number	El Paso Lab Number	# CONTAINERS	Volume/Amount	MATRIX: WATER	SOIL	AIR	SLUDGE	PRESERVATIVE METHOD: HCL	HNO3	ICE	NONE	MTBE 8021B/602	BTEX 8021B/602	TPH 418.1/TX1005	PAH 8270C	Total Metals Ag As Ba Cd Cr Pb Se Hg 6010B/200.7	TCLP Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Volatiles	TCLP Semi Volatiles	TCLP Pesticides	RCI	GC-MS Vol. 8260B/624	GC/MS Semi. Vol. 8270C/625	PCB's 8082/608	Pesticides 8081A/608	BOD, TSS, pH	Total Uranium	Turn Around Time if different from standard
152816	2000 2547	1		X																								

aso Relinquished by: Lucia Guerra Date: 8/31/00 Time: 16:00

Lubbock Received at Laboratory by: Vicki Hendrix Date: 9-1-00 Time:

REMARKS:

HELSTF 6020

PO# 00B-2029

MEVATEC CORPORATION

P.O. Box 399
Bldg. 126
WSMR, NM 88002
(505) 678-0263

CHAIN OF CUSTODY RECORD

PAGE 1 OF 1

PROJECT NO.: 70089

PROJECT NAME: HELSTF TSA POL Station

SAMPLER'S SIGNATURE: Alejandro Martinez

DATE COLLECTED	TIME COLLECTED	SAMPLE ID	MATRIX	LAB NO.	NO. OF CONTAINERS	TPH-DRO	BTEX	MTBE	Phy. Char.	Dis. Anions	Dis. Cations	Dis. Nutrients	Dis. Metals			REMARKS
06/01	1345	26030-MW01-0600	Water	20002547	14	✓	✓	✓	✓	✓	✓	✓	✓			152816

PROJECT INFORMATION			1. RELINQUISHED BY: (SIGNATURE)	2. RELINQUISHED BY: (SIGNATURE)	3. RECEIVED BY LABORATORY: (SIGNATURE)
PROJECT MANAGER: Gregg Watterson	SAMPLES RECEIVED		(PRINTED NAME) Alejandro Martinez	(PRINTED NAME)	(PRINTED NAME)
SHIPPING ID. NO.	TOTAL NO. OF CONTAINERS		RECEIVED BY:	RECEIVED BY:	(COMPANY) Trace
VIA: Left Courier	CHAIN OF CUSTODY SEALS		(TIME / DATE) 8:20am 6/2/10	(TIME / DATE)	(TIME / DATE) 6/02/10 9:50
	GOOD CONDITION/CHILLED	5°C	SPECIAL INSTRUCTIONS / COMMENTS: Please see attached Analyte List for Details		
	CONFORMS TO RECORD				

PLEASE USE BALL POINT PEN

DISTRIBUTION: WHITE - PROJECT FILES; YELLOW - L[illegible] PINK - FIELD COPY

TRACEANALYSIS, INC.

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E-Mail: lab@traceanalysis.com

Analytical and Quality Control Report

Report Date: September 7, 2000

Mevatec
P.O. Box 399 Bldg. 126
WSMR, NM 88002

Order ID Number: A00090120

Project Number: 700B9
Project Name: HELSTF TSA POL Station
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
152817	20002548-260-MW03-0600	Water	6/1/00	12:33	9/1/00

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.

This report consists of a total of 3 pages and shall not be reproduced except in its entirety, without written approval of TraceAnalysis, Inc.

Dr. Blair Leftwich, Director

Analytical and Quality Control Report

Sample: 152817 - 20002548-260-MW03-0600

Analysis:	Dissolved Metals	Analytical Method:	S 6010B	QC Batch:	QC04722	Date Analyzed:	9/6/00
Analyst:	RR	Preparation Method:	E 3005A	Prep Batch:	PB04060	Date Prepared:	9/5/00

Param	Flag	Result	Units	Dilution	RDL
Dissolved Uranium		<0.50	mg/L	1	0.50

Quality Control Report
Method Blank

Sample: Method Blank QCBatch: QC04722

Param	Flag	Results	Units	Reporting Limit
Dissolved Uranium		<0.50	mg/L	0.50

Quality Control Report
Lab Control Spikes and Duplicate Spikes

Sample: LCS QC Batch: QC04722

Param	Flag	Sample Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec.	RPD	% Rec. Limit	RPD Limit
Dissolved Uranium	[1]	1.03	mg/L	1	1	<0.50	103		75 - 125	20

Sample: LCSD QC Batch: QC04722

Param	Flag	Sample Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec.	RPD	% Rec. Limit	RPD Limit
Dissolved Uranium	[2]	1.03	mg/L	1	1	<0.50	103	0	75 - 125	20

Quality Control Report

[1] No matrix spike due to insufficient sample amount, used LCS and LCSD.
[2] No matrix spike due to insufficient sample amount, used LCS and LCSD.

Continuing Calibration Verification Standards

Sample: CCV (1) QC Batch: QC04722

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Dissolved Uranium		mg/L	2.50	2.56	102	75 - 125	9/6/00

Sample: ICV (1) QC Batch: QC04722

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Dissolved Uranium		mg/L	2.50	2.47	99	75 - 125	9/6/00

#0000 [illegible] 60210

PO# ØEB-2Ø29

MEVATEC CORPORATION
P.O. Box 399
Bldg. 126
WSMR, NM 88002
(505) 678-0263

CHAIN OF CUSTODY RECORD

PAGE 1 OF 1

PROJECT NO.: 700 39
PROJECT NAME: HELSTF TSA POC Station
SAMPLER'S SIGNATURE: Alejandro Mc

DATE COLLECTED	TIME COLLECTED	SAMPLE ID	MATRIX	LAB NO.	NO. OF CONTAINERS	TPH - DRO	BTEX	MTBE	Dry Chem	Diss Anions	Diss Cations	Diss. Nut.	Diss Metals			REMARKS
06/01	1253	26030-MW03-0600	water	2000 2548	14	✓	✓	✓	✓	✓	✓	✓	✓			152817

PROJECT INFORMATION			1. RELINQUISHED BY: (SIGNATURE)	2. RELINQUISHED BY: (SIGNATURE)	3. RECEIVED BY-LABORATORY: (SIGNATURE)
PROJECT MANAGER: Greg Wetherson	SAMPLES RECEIVED		Alejandro Mc		
	TOTAL NO. OF CONTAINERS		(PRINTED NAME) Alejandro Martinez	(PRINTED NAME)	(PRINTED NAME)
SHIPPING ID. NO.	CHAIN OF CUSTODY SEALS		RECEIVED BY:	RECEIVED BY:	(COMPANY) Trace
	GOOD CONDITION/CHILLED	5°C	(TIME / DATE) 8:00am 6/2/01	(TIME / DATE)	(TIME / DATE) 6/02/01 9:50
VIA: Lab Courier	CONFORMS TO RECORD		SPECIAL INSTRUCTIONS / COMMENTS: Please see Attached Analytical list for Details		

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Page ___ of ___

01 Aberdeen Ave, Ste 9
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TraceAnalysis, Inc.

4725 [illegible] Ste A
El Paso [illegible] 79922-1028
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1 (888) 588-3443

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

LAB Order ID # #00090120

152817

SECONDARY CHAIN-OF-CUSTODY

TRACEANALYSIS - LUBBOCK

Lubbock Lab Use Only
Intact: Y / N
Headspace: Y / N
Temp.
Log-In Review

FROM: TRACEANALYSIS - EL PASO

ANALYSIS REQUEST
(Circle or Specify Method No.)

Lubbock Lab Number	El Paso Lab Number	# CONTAINERS	Volume/Amount	MATRIX: WATER	SOIL	AIR	SLUDGE	PRESERVATIVE METHOD: HCL	HNO3	ICE	NONE	MTBE 8021B/602	BTEX 8021B/602	TPH 418.1/TX1005	PAH 8270C	Total Metals Ag As Ba Cd Cr Pb Se Hg 6010B/200.7	TCLP Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Volatiles	TCLP Semi Volatiles	TCLP Pesticides	RCI	GC-MS Vol. 8260B/624	GC/MS Semi. Vol. 8270C/625	PCB's 8082/608	Pesticides 8081A/608	BOD, TSS, pH	Total Uranium								Turn Around Time if different from standard
152817	70002548	1		X																							X								

Relinquished by: Date: Time:
Luis Guerra 8/31/00 16:00

Received at Laboratory by: Date: Time:
Vicki Hernandez 9-1-00

REMARKS:

PDP
Analytical Services

1680 Lake Front Circle, Suite B
The Woodlands, Texas 77380
Phone (281) 363-2233
Fax (281) 298-5784
e-mail pdp@pdpanalytical.com

July 11, 2000

Greg Watterson
Mevatec Corporation
Building 126, 3rd Floor
White Sands Missile Range
NM 88022-0399

Episode: 6124
Project ID: Helstf TSA Pool
Project #: 700B9

Dear Mr. Watterson:

Enclosed are the analytical results samples received in our laboratory on June 2, 2000. The sample was analyzed for the parameters indicated on the chain of custody.

Please be advised that unused portions of your samples, sample extracts and digestates will be stored for 30 days from the date of this report. Unless prior arrangements were made, at the end of this period your samples will either be disposed of, or returned to you if your samples were determined to be hazardous.

We appreciate your business. Should you have any questions or need assistance with this report, please feel free to call me, at (281) 363-2233.

Sincerely,

Sean Sundquist
Project Manager

Enclosures

Cc: Episode File - 6124

CASE NARRATIVE

PDP Analytical Services
1680 Lake Front Circle Drive, Suite B The Woodlands, TX 77380
Phone: (281) 363-2233 Fax: (281) 298-5784

Episode No: 6124	Client: Mevatec	Project: Helstf TSA Pool

CASE NARRATIVE

Sample Receipt and Login

PDP Analytical Services received one (1) shipment, delivered by commercial carrier on 06/02/00. The one (1) water sample was scheduled for a fourteen (14) day turn-around-time

No discrepancies were found during login.

Sample Analysis Narrative

DISSOLVED NUTRIENTS

No analytical problems were encountered. All method QC criteria were met.

PHYSICAL CHARACTERISTICS

No analytical problems were encountered. All method QC criteria were met.

ANIONS

The sample was analyzed on 06/27/00. The MS/MSD for Chloride were above acceptance limits. The associated LCS met QC criteria indicating probable matrix affects for the MS/MSD. All other method QC criteria were met.

DISSOLVED CATIONS

The sample was prepared on 06/14/00 and analyzed on 06/14/00. Positive results were measured for Boron, Calcium, Magnesium, Manganese, Potassium, Sodium and Strontium. The dissolved Uranium analysis was subcontracted to Enviro Test Laboratories. No analytical problems were encountered. All method QC criteria were met.

PDP Analytical Services
1680 Lake Front Circle Drive, Suite B The Woodlands, TX 77380
Phone: (281) 363-2233 Fax: (281) 298-5784

Episode No: 6124	Client: Mevatec	Project: Helstf TSA Pool

CASE NARRATIVE

BTEX & MTBE

The sample was analyzed on 06/12/00. Target compounds were not detected in the sample. No analytical problems were encountered. All method QC criteria were met.

TPH-Gasoline Range Organics

The sample was prepared and analyzed on 06/09/00. Target compounds were detected below the quantitation limit in the sample. No analytical problems were encountered. All method QC criteria were met.

PDP ANALYTICAL SERVICES
1680 Lake Front Circle, Suite B The Woodlands, Texas 77380

DATA FLAGS AND ABBREVIATIONS

B	This flag is used when the analyte is found in the associated blank as well as in the sample.
D	Indicates that the compound could not be detected because it was diluted out.
DL	This flag identifies an analysis at a secondary dilution factor.
E	This flag identifies compounds whose concentrations exceed the calibration range of the instrument for that specific analysis. A more accurate quantitation is obtained from a diluted sample analysis.
I	This flag is used to indicate the presence of interference which resulted in not determining the value.
J	This flag is used when the data indicates the presence of a compound below the quanitation limit a determined by the identification criteria.
NA	Not applicable.
NC	Not calculated.
ND	Indicates a compound was analyzed for but not detected at the quantitation level.
P	This flag is used for a pesticide/aroclor target analyte when there is greater than 25% difference for detected concentrations between the two GC columns.
RE	This flag is used when the sample is re-extracted and re-analyzed.
RA	This flag is used when the sample is re-analyzed.
U	This flag indicates that the compound was analyzed for but not detected.
*	Indicates that the compound is out of the Quality Control limits.

CHAIN OF CUSTODY

MEVATEC CORPORATION
P.O. Box 399
Bldg. 126
WSMR, NM 88002
(505) 678-0263

CHAIN OF CUSTODY RECORD

PAGE 1 OF 1

PROJECT NO.: 700 B9

PROJECT NAME: HELSTF JSA POL Station

SAMPLER'S SIGNATURE: [signature]

DATE COLLECTED	TIME COLLECTED	SAMPLE ID	MATRIX	LAB NO.	NO. OF CONTAINERS	TPH-DRO	BTEX	MTBE	Phy. Char.	Diss. Anions	Diss. Cations	Diss. Nut.	Diss. Metals			REMARKS
6/1/00	1253	26030-MW003-060000-QA	water		15	✓	✓	✓	✓	✓	✓	✓	✓			6124.001

PROJECT INFORMATION			1. RELINQUISHED BY: (SIGNATURE)	2. RELINQUISHED BY: (SIGNATURE)	3. RECEIVED BY LABORATORY: (SIGNATURE)
PROJECT MANAGER: Greg Watterson	SAMPLES RECEIVED		(PRINTED NAME) Alejandro Martinez	(PRINTED NAME)	(PRINTED NAME) CARLOS PIRIR
SHIPPING ID. NO.	TOTAL NO. OF CONTAINERS		RECEIVED BY:	RECEIVED BY:	(COMPANY) PDP Analytical
VIA: FED	CHAIN OF CUSTODY SEALS		(TIME / DATE)	(TIME / DATE)	(TIME / DATE) 9:16 6-2-00
	GOOD CONDITION/CHILLED		SPECIAL INSTRUCTIONS / COMMENTS: Please see ~~attached~~ Analytical List For Details		
	CONFORMS TO RECORD				

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DISTRIBUTION: WHITE - PROJECT FILES; YELLOW - LAB; X - FIELD COPY

PDP ANALYTICAL SERVICES

1680 Lake Front Circle, Suite B, The Woodlands, TX 77380

SAMPLE LOG-IN CHECKLIST/DISCREPANCY REPORT

EPISODE #: 6124 DATE/ REC'D: 6-2-00 9:16 (TIME) TEMP & ID: 1) 3°C # A

CLIENT NAME: Mevatec CORPORATION 2) ____ # ____

PROJECT NAME: HELSTF TSA POL Station 3) ____ # ____

PROJECT NUMBER: 700B9 4) ____ # ____

1 AQUEOUS, # — SOIL SAMPLES 5) ____ # ____

COURIER/AIRBILL # FedEx 7925 9814 2193 6) ____ # ____

SAMPLE CONTAINER SEALS: present (absent) intact broken

COOLER CUSTODY SEALS: present absent (intact) broken NAME & DATE: N/A

HOW MANY AND WHERE One, on the front

	YES	NO
Were samples screened for radioactivity?	✓	
Chain-of-custody present?	✓	
Custody documents: Sealed in a plastic bag?	✓	
Signed and dated by field personnel	✓	
Filled out properly in indelable ink?	✓	
Signed and dated by log-in personnel?	✓	
ntainer Condition: Each containers sealed in a separate plastic bag?	✓	
Labels complete (ID, date, time, signature, preservative, etc.)?	✓	
Labels agree with chain-of-custody?	✓	
Received without leakage or breakage? If no, list :	✓	
Correct quantity indicated on chain-of-custody?	✓	
Sample Integrity: Correct containers used for the test indicated? If no, list:	✓	
Correct preservatives added to the samples? If no, list:	✓	
Sufficient sample amount sent for the tests indicated? If no, list	✓	
VOA vials filled completely? If no, list:	✓	
Aqueous volatiles samples preserved? If no, list:	✓	

Descrepancy Report:

Discepancies to be discussed with the client?

Project Manager's recommendations?

Who was notified? By whom? Date:

Client's comments:

Corrective actions carried out?

COMMENTS:

r those short holding time and fast turn-around parameters, has a Rush Notification sheet been issued to the lab?

LOG-IN BY: Carlos Pirir DATE: 6-2-00

z:\netdata\qa\forms\admin\scdr0398

PDP Analytical Services
1680 Lake Front Circle, Suite B, The Woodlands TX 77380
Sample Log-In Report

Logged By: RB

Report Date: 6/6/2000 10:27:56

Client Name: MEVATEC
Client Project Name: HELSTF TSA POOL
ClientProject #: 70B9
P.O. No.: 700B9
Courier/No.:

Lab Project ID: EVATEC
Date Logged: 06/02/00
Date Received: 06/02/00
Time Received: 9:16

Lab Sample ID	Client Sample ID	No. Cont.	Sample Matrix	Date Sampled	Time Sampled	Chain Of Custody No.	Date Due	Remarks
6124.001	26030-MW003-0600-QA	15	WATER	06/01/00	12:53	6124		

Tests Required

- ALKALINITY,BICARB310.1_mevatec	06/16/00
- ALKALINITY,CARB310.1_mevatec	06/16/00
- BROMIDE_300	06/16/00
- BTEX8021B/MTBE	06/16/00
- CHLORIDE_300	06/16/00
- CONDUCTIVITY_120.1	06/16/00
- FLUORIDE300	06/16/00
- MET_DISSOLVED_6010B_U	06/16/00
- METALS-Q1396-DISSOLVED	06/16/00
- NITRATE_300	06/16/00
- PH_150.1	06/16/00
- PHOSPHORUS_TOTAL_4500-PE	06/16/00
- SULFATE_300	06/16/00
- TDS_160.1	06/16/00
- TPH8015A-PURGEABLES	06/16/00

Instructions To Lab:

EXTRACT SAMPLES WITHIN 48 HRS OF SAMPLING!
EDD REQUIRED

6/6/00

Lab Approval

Client Approval

0000008

2

PDP
Analytical Services
1680 Lake Front Circle, Suite 8
The Woodlands, Texas 77380
Phone (281) 363-2235
Fax (281) 298-5784
e-mail pdp@pdpanalytical.com

SAMPLE RECEIPT and LOGIN VERIFICATION

** Please fax immediately**

To: Greg Watterson Date & Time: 6/6/00

Company: Mevatec Pages: 3

Fax #: 505-678-~~0265~~ 6096 Episode: 6124

~~6089~~

Dear Valued Client:

We have taken every effort to insure that the samples you have submitted to us are assigned the correct sample identifications and analysis. However, only you can make the final determination. Please review the following PDP sample login sheet against the chain of custody that you have submitted to us. If you agree that the information is correct and that you authorize the work to be performed as stated on the sample login sheet, then please sign below and fax the form back to us within 24 hours. If PDP has not received authorization within 24 hours, then the analysis will be initiated as per the sample login sheet. However, PDP will not be held responsible for any problems that may arise without authorization. If you find discrepancies or wish to make changes, please advise us by telephone within 24 hours so that we may incorporate the changes.

With your cooperation, we will be able to process your testing more efficiently. Please coordinate with Sean Sundquist or Rick Schrynemeeckers with any changes or problems. We appreciate your help.

I authorize the work to be performed as on the PDP sample login sheet.

Signature: [signature]

Title: TC

PO# 8813-2008

Date & Time: 6/6/00 12:31

If this fax message is received poorly or incomplete, please notify us at the above number.

Looks good. Just be sure that all the parameters in MEVATEC Table 2 are analyzed.

3

PDP Analytical Services
1680 Lake Front Circle, Suite B, The Woodlands TX 77380
Sample Log-In Report

Logged By: RR **Report Date:** 6/6/2000 10:27:56

Client Name: MEVATEC **Lab Project ID:** EVATEC
Client Project Name: DELSTE TSA POOL **Date Logged:** 06/02/00
Client Project #: 70B9 **Date Received:** 06/02/00
P.O. No.: 700B9 **Time Received:** 9:16
Courier/No.:

Lab Sample ID	Client Sample ID	No. Cont.	Sample Matrix	Date Sampled	Time Sampled	Chain Of Custody No.	Date Due	Remarks
0124.001	26030-MW003-0600-GA	15	WATER	06/01/00	12:53	0124		

Tests Required

- ALKALINITY,B.CARB310.1_mevatec	06/16/00
- ALKALINITY,CARB310.1_mevatec	06/16/00
- BROMIDE_300	06/16/00
- BTEX8021B/MTBE	06/16/00
- CHLORIDE_300	06/16/00
- CONDUCTIVITY_120.1	06/16/00
- FLUORIDE300	06/16/00
- MET_DISSOLVED_6010B_U	06/16/00
- METALS-QC396-DISSOLVED	06/16/00
- NITRATE_300	06/16/00
- PH_150.1	06/16/00
- PHOSPHORUS_TOTAL_4500-PE	06/16/00
- SULFATE_300	06/16/00
- TDS_160.1	06/16/00
- TPH8015A-PURGEABLES	06/16/00

PO# 0000B-20008

Instructions To Lab:
EXTRACT SAMPLES WITHIN 48 HRS OF SAMPLING!
EDD REQUIRED

not for this sample set
only for soil samples that were done
last month

Lab Approval

Client Approval

0000010

4

Table 1. Analyte List for Ground Sampling of 3 Regional Wells

Groundwater Parameter	Analytical Method (EPA or SW846)	Detection Limits (mg/L)
Physical Characteristics		
Lab Conductivity (µS/cm at 25°C)	120.1	N/A
pH	150.1	N/A
TDS (µg/L ROE at 180°C)	160.1	50
Total Petroleum Hydrocarbons		
Gasoline Range Organics	8015, Modified	0.1
BTEX + MTBE	8021	0.01
Dissolved Anions/Cations		
Calcium	6010	0.01
Magnesium	6010	0.03
Potassium	200.7	0.7
Sodium	200.7	0.03
Bicarbonate	2300B	5.0
Bromide	2300B	2.0
Carbonate	2300B	5.0
Chloride	300.0	2.0
Sulfate	300.0	1.0
Fluoride	300.0	0.2
Dissolved Nutrients		
Nitrate	300.0	0.1
Phosphorus	6010	0.05
Dissolved Metals		
Barium	6010	0.05
Boron	6010	0.1
Iron	6010	0.2
Lithium	6010	0.1
Manganese	6010	0.05
Strontium	6010	0.1
Uranium	6010	5.0

Sample Data

ALKALINITY/BICARBONATE

PDP Analytical Services

1680 Lake Front Circle, Suite B, The Woodlands, TX 77380

LABORATORY REPORT

ALKALINITY (TITRIMETRIC)

CLIENT NAME : MEVATEC
PROJECT NAME : HELSTF TSA POOL
PROJECT NUMBER : 70B9
PRINTED ON : 6/21/2000 16:12

PARAMETER: Alkalinity, Bicarbonate (as HCO3)

CLIENT SAMPLE ID	26030-MW003-0600-Q	26030-MW003-0600-Q	PREP BLANK	LAB CONTROL SAMPL
SAMPLE ID	6124.001	6124.001DUP1	ABLK041	ALCS041
SAMPLE MATRIX	WATER	WATER		
DATE SAMPLED	6/1/00	6/1/00		
DATE RECEIVED	6/2/00	6/2/00		
METHOD REFERENCE	EPA-310.1	EPA-310.1	EPA-310.1	EPA-310.1
QUANTITATION LIMIT	1.5	1.5	1.5	1.46
RESULTS	99	98	ND	180
UNITS	MG/L	MG/L	MG/L	MG/L
QUALIFIER				
ANALYST	JA	JA	JA	JA
DATE ANALYZED	06/07/00	06/07/00	06/07/00	06/07/00
DILUTION	1	1	1	1
QC BATCH ID	A041	A041	A041	A041
PRE-PREP BLANK ID				
PREP BLANK ID	ABLK041	ABLK041	ABLK041	ABLK041
LCS ID	ALCS041	ALCS041		
LCSD ID	ALCS041D	ALCS041D		
DUP ID	6124.001DUP1	6124.001DUP1		

PDP Analytical Services

1680 Lake Front Circle, Suite B, The Woodlands, TX 77380

LABORATORY REPORT

ALKALINITY (TITRIMETRIC)

CLIENT NAME	:	MEVATEC	PROJECT NUMBER	:	70B9
PROJECT NAME	:	HELSTF TSA POOL	PRINTED ON	:	6/21/2000 16:12

PARAMETER: Alkalinity, Bicarbonate (as HCO3)

CLIENT SAMPLE ID	**LAB CONTROL SAMP**			
SAMPLE ID	**ALCS041D**			
SAMPLE MATRIX				
DATE SAMPLED				
DATE RECEIVED				
METHOD REFERENCE	EPA-310.1			
QUANTITATION LIMIT	1.46			
RESULTS	190			
UNITS	MG/L			
QUALIFIER				
ANALYST	JA			
DATE ANALYZED	06/07/00			
DILUTION	1			
QC BATCH ID	A041			
PRE-PREP BLANK ID				
PREP BLANK ID	ABLK041			
LCS ID	ALCS041			
LCSD ID				
DUP ID				

ALKALINITY/CARBONATE

PDP Analytical Services

1680 Lake Front Circle, Suite B, The Woodlands, TX 77380

LABORATORY REPORT

ALKALINITY (TITRIMETRIC)

CLIENT NAME : MEVATEC
PROJECT NAME : HELSTF TSA POOL
PROJECT NUMBER : 7089
PRINTED ON : 6/16/2000 11:43

PARAMETER: Alkalinity, Carbonate (as CO3)

CLIENT SAMPLE ID	26030-MW003-0600-Q	26030-MW003-0600-QA	PREP BLANK	LAB CONTROL SAMP
SAMPLE ID	6124.001	6124.001DUP1	ABLK041	ALCS041
SAMPLE MATRIX	WATER	WATER		
DATE SAMPLED	6/1/00	6/1/00		
DATE RECEIVED	6/2/00	6/2/00		
METHOD REFERENCE	EPA-310.1	EPA-310.1	EPA-310.1	EPA-310.1
QUANTITATION LIMIT	1.4	1.4	1.4	1.4
RESULTS	ND	ND	ND	180
UNITS	MG/L	MG/L	MG/L	MG/L
QUALIFIER				
ANALYST	JA	JA	JA	JA
DATE ANALYZED	06/07/00	06/07/00	06/07/00	06/07/00
DILUTION	1	1	1	1
QC BATCH ID	A041	A041	A041	A041
PRE-PREP BLANK ID				
PREP BLANK ID	ABLK041	ABLK041	ABLK041	ABLK041
LCS ID	ALCS041	ALCS041		
LCSD ID	ALCS041D	ALCS041D		
DUP ID	6124.001DUP1	6124.001DUP1		

PDP Analytical Services
1680 Lake Front Circle, Suite B, The Woodlands, TX 77380

LABORATORY REPORT

ALKALINITY (TITRIMETRIC)

CLIENT NAME	:	MEVATEC	PROJECT NUMBER	:	70B9
PROJECT NAME	:	HELSTF TSA POOL	PRINTED ON	:	6/16/2000 11:43

PARAMETER: Alkalinity, Carbonate (as CO3)

CLIENT SAMPLE ID	**LAB CONTROL SAMP**			
SAMPLE ID	**ALCS041D**			
SAMPLE MATRIX				
DATE SAMPLED				
DATE RECEIVED				
METHOD REFERENCE	EPA-310.1			
QUANTITATION LIMIT	1.44			
RESULTS	180			
UNITS	MG/L			
QUALIFIER				
ANALYST	JA			
DATE ANALYZED	06/07/00			
DILUTION	1			
QC BATCH ID	A041			
PRE-PREP BLANK ID				
PREP BLANK ID	ABLK041			
LCS ID	ALCS041			
LCSD ID				
DUP ID				

BROMIDE

PDP Analytical Services

1680 Lake Front Circle, Suite B, The Woodlands, TX 77380

LABORATORY REPORT

BROMIDE BY ION CHROMATOGRAPHY

CLIENT NAME	: MEVATEC		PROJECT NUMBER	:	70B9
PROJECT NAME	: HELSTF TSA POOL		PRINTED ON	:	7/6/2000 16:58

PARAMETER: Bromide

CLIENT SAMPLE ID	26030-MW003-0600-Q	26030-MW003-0600-Q	PREP BLANK	LAB CONTROL SAMPL
SAMPLE ID	6124.001	6124.001DL1	ICBLK23	ICLCS23
SAMPLE MATRIX	WATER	WATER		
DATE SAMPLED	6/1/00	6/1/00		
DATE RECEIVED	6/2/00	6/2/00		
METHOD REFERENCE	EPA-300	EPA-300	EPA-300	EPA-300
QUANTITATION LIMIT	0.2	4	0.02	0.02
RESULTS	ND	ND	ND	1.81
UNITS	MG/L	MG/L	MG/L	MG/L
QUALIFIER				
ANALYST	GSR	GSR	GSR	GSR
DATE ANALYZED	06/27/00	06/28/00	06/27/00	06/27/00
DILUTION	10	200	1	1
INSTRUMENT FILE	0627A0C1.D16	0628A001.D10	0627A0C1.D09	0627A0C1.D10
INSTRUMENT ID	A-DIONEX300	A-DIONEX300	A-DIONEX300	A-DIONEX300
QC BATCH ID	IC23	IC23	IC23	IC23
PRE-PREP BLANK ID				
PREP BLANK ID	ICBLK23	ICBLK23	ICBLK23	ICBLK23
LCS ID	ICLCS23	ICLCS23		
LCSD ID				
MS ID				
MSD ID				
DUP ID				

BTEX

PDP Analytical Services
1680 Lake Front Circle, Suite B, The Woodlands, TX 77380

LABORATORY REPORT

BTEX & MTBE BY GC/PID

CLIENT NAME :	MEVATEC	CLIENT SAMPLE ID :	26030-MW003-0600-QA
PROJECT NAME :	HELSTF TSA POOL	LAB SAMPLE ID :	6124.001
PROJECT NUMBER :	70B9	METHOD REFERENCE :	SW846-8021B
DATE SAMPLED :	6/1/00	DATE RECEIVED :	6/2/00
SAMPLE MATRIX :	WATER	PRINTED ON :	6/12/2000 15:46

ANALYST	: DR	DATE ANALYZED	: 06/12/00
DILUTION	: 1	INSTRUMENT FILE	: B01251.D
INSTRUMENT ID	: B-HP5890B	PURGE VOLUME	: 40 mL
TIME ANALYZED	: 11:30		

PARAMETER	QUANTITATION LIMIT	RESULTS	QUALIFIER
Benzene	0.625 UG/L	ND UG/L	
Ethyl benzene	0.625 UG/L	ND UG/L	
Methyl tert-butyl ether	0.625 UG/L	ND UG/L	
Toluene	0.625 UG/L	ND UG/L	
Xylene (total)	0.625 UG/L	ND UG/L	

QUALITY CONTROL DATA

SURROGATE COMPOUND	SPIKE ADDED	QC RECOVERY LIMITS	%RECOVERY
a,a,a-Trifluorotoluene	6.25 UG/L	75 - 125	90

BATCH QUALITY CONTROL SAMPLE IDs

QC BATCH ID : B33	PREP BLANK ID : BBLK33	LCS ID : BLCS33
MS ID : 6124.001MS	MSD ID : 6124.001MSD	

CHLORIDE

PDP Analytical Services

1680 Lake Front Circle, Suite B, The Woodlands, TX 77380

LABORATORY REPORT

CHLORIDE BY ION CHROMATOGRAPHY

CLIENT NAME	: MEVATEC		PROJECT NUMBER	:	7089
PROJECT NAME	: HELSTF TSA POOL		PRINTED ON	:	7/6/2000 16:33

PARAMETER: Chloride as Cl

CLIENT SAMPLE ID	26030-MW003-0600-Q	26030-MW003-0600-QA	LH18/24-ICT7-1004MS	LH18/24-ICT7-1004MS
SAMPLE ID	6124.001	6124.001DL1	6161.007MS	6161.007MSD
SAMPLE MATRIX	WATER	WATER	WATER	WATER
DATE SAMPLED	6/1/00	6/1/00	6/21/00	6/21/00
DATE RECEIVED	6/2/00	6/2/00	6/23/00	6/23/00
METHOD REFERENCE	EPA-300	EPA-300	EPA-300	EPA-300
QUANTITATION LIMIT	2	40	2	2
RESULTS	1360	1090	78.2	73.1
UNITS	MG/L	MG/L	MG/L	MG/L
QUALIFIER				
ANALYST	GSR	GSR	GSR	GSR
DATE ANALYZED	06/27/00	06/28/00	06/28/00	06/28/00
DILUTION	10	200	10	10
INSTRUMENT FILE	0627A0C1.D16	0628A001.D10	0628A011.D06	0628A011.D07
INSTRUMENT ID	A-DIONEX300	A-DIONEX300	A-DIONEX300	A-DIONEX300
QC BATCH ID	IC23	IC23	IC25	IC25
PRE-PREP BLANK ID				
PREP BLANK ID	ICBLK23	ICBLK23	ICBLK25	ICBLK25
LCS ID	ICLCS23	ICLCS23	ICLCS25	ICLCS25
LCSD ID				
MS ID	6161.007MS	6161.007MS		6161.007MS
MSD ID	6161.007MSD	6161.007MSD		
DUP ID				

PDP Analytical Services

1680 Lake Front Circle, Suite B, The Woodlands, TX 77380

LABORATORY REPORT

CHLORIDE BY ION CHROMATOGRAPHY

CLIENT NAME	:	MEVATEC	PROJECT NUMBER	:	70B9
PROJECT NAME	:	HELSTF TSA POOL	PRINTED ON	:	7/6/2000 16:33

PARAMETER: Chloride as Cl

CLIENT SAMPLE ID	PREP BLANK	LAB CONTROL SAMP		
SAMPLE ID	ICBLK23	ICLCS23		
SAMPLE MATRIX				
DATE SAMPLED				
DATE RECEIVED				
METHOD REFERENCE	EPA-300	EPA-300		
QUANTITATION LIMIT	0.2	0.2		
RESULTS	ND	1.67		
UNITS	MG/L	MG/L		
QUALIFIER				
ANALYST	GSR	GSR		
DATE ANALYZED	06/27/00	06/27/00		
DILUTION	1	1		
INSTRUMENT FILE	0627A0C1.D09	0627A0C1.D10		
INSTRUMENT ID	A-DIONEX300	A-DIONEX300		
QC BATCH ID	IC23	IC23		
PRE-PREP BLANK ID				
PREP BLANK ID	ICBLK23	ICBLK23		
LCS ID				
LCSD ID				
MS ID				
MSD ID				
DUP ID				

CONDUCTIVITY

PDP Analytical Services

1680 Lake Front Circle, Suite B, The Woodlands, TX 77380

LABORATORY REPORT

SPECIFIC CONDUCTANCE

CLIENT NAME : MEVATEC
PROJECT NAME : HELSTF TSA POOL
PROJECT NUMBER : 70B9
PRINTED ON : 6/7/2000 16:25

PARAMETER: Conductivity

CLIENT SAMPLE ID	26030-MW003-0600-Q	26030-MW003-0600-QA	LAB CONTROL SAMP	LAB CONTROL SAMP
SAMPLE ID	6124.001	6124.001DUP1	COLCS015	COLCS015D
SAMPLE MATRIX	WATER	WATER		
DATE SAMPLED	6/1/00	6/1/00		
DATE RECEIVED	6/2/00	6/2/00		
METHOD REFERENCE	EPA-120.1	EPA-120.1	EPA-120.1	EPA-120.1
QUANTITATION LIMIT	1	1	1	1
RESULTS	17.3	17.4	100	99.1
UNITS	US/CM	US/CM	UMHO/CM	UMHO/CM
QUALIFIER				
ANALYST	JA	JA	JA	JA
DATE ANALYZED	06/07/00	06/07/00	06/07/00	06/07/00
TIME ANALYZED	09:00	09:00	09:00	09:00
QC BATCH ID	CO015	CO015	CO015	CO015
PRE-PREP BLANK ID				
PREP BLANK ID				
LCS ID	COLCS015	COLCS015		
LCSD ID	COLCS015D	COLCS015D		
DUP ID	6124.001DUP1	6124.001DUP1		

FLUORIDE

PDP Analytical Services

1680 Lake Front Circle, Suite B, The Woodlands, TX 77380

LABORATORY REPORT

FLUORIDE BY ION CHROMATOGRAPHY

CLIENT NAME	:	MEVATEC	PROJECT NUMBER	:	70B9
PROJECT NAME	:	HELSTF TSA POOL	PRINTED ON	:	7/6/2000 16:33

PARAMETER: Fluoride as F

CLIENT SAMPLE ID	26030-MW003-0600-Q	26030-MW003-0600-QA	PREP BLANK	LAB CONTROL SAMP
SAMPLE ID	6124.001	6124.001DL1	ICBLK23	ICLCS23
SAMPLE MATRIX	WATER	WATER		
DATE SAMPLED	6/1/00	6/1/00		
DATE RECEIVED	6/2/00	6/2/00		
METHOD REFERENCE	EPA-300	EPA-300	EPA-300	EPA-300
QUANTITATION LIMIT	1	20	0.1	0.1
RESULTS	ND	ND	ND	1.6
UNITS	MG/L	MG/L	MG/L	MG/L
QUALIFIER				
ANALYST	GSR	GSR	GSR	GSR
DATE ANALYZED	06/27/00	06/28/00	06/27/00	06/27/00
DILUTION	10	200	1	1
INSTRUMENT FILE	0627A0C1.D16	0628A001.D10	0627A0C1.D09	0627A0C1.D10
INSTRUMENT ID	A-DIONEX 300	A-DIONEX 300	A-DIONEX 300	A-DIONEX 300
QC BATCH ID	IC23	IC23	IC23	IC23
PRE-PREP BLANK ID				
PREP BLANK ID	ICBLK23	ICBLK23	ICBLK23	ICBLK23
LCS ID	ICLCS23	ICLCS23		
LCSD ID				
MS ID				
MSD ID				
DUP ID				

METALS DISSOLVED

1680 Lake Front Circle, Suite B, The Woodlands, TX 77380
PDP Analytical Services

LABORATORY REPORT

DISSOLVED METALS

CLIENT NAME :	MEVATEC	CLIENT SAMPLE ID :	26030-MW003-0600-QA
PROJECT NAME :	HELSTF TSA POOL	LAB SAMPLE ID :	6124.001
PROJECT NUMBER :	70B9	DATE RECEIVED :	6/2/00
DATE SAMPLED :	6/1/00	PRINTED ON :	6/16/2000 9:31
SAMPLE MATRIX :	WATER	% MOISTURE :	

ANALYTE	METHOD	DATE PREPARED	DATE ANALYZED	DILU-TION	QUANTITATION LIMIT	RESULT	Q	ANA-LYST
Barium, Dissolved	SW846-6010B	6/14/00	6/14/00	1	0.05 MG/L	ND MG/L		AR
Boron, Dissolved	SW846-6010B	6/14/00	6/14/00	1	0.5 MG/L	0.773 MG/L		AR
Calcium, Dissolved	SW846-6010B	6/14/00	6/14/00	1	0.1 MG/L	410 MG/L		AR
Iron, Dissolved	SW846-6010B	6/14/00	6/14/00	1	0.2 MG/L	ND MG/L		AR
Lithium, Dissolved	SW846-6010B	6/14/00	6/14/00	1	0.1 MG/L	ND MG/L		AR
Magnesium, Dissolv	SW846-6010B	6/14/00	6/14/00	1	0.1 MG/L	280 MG/L		AR
Manganese, Dissolv	SW846-6010B	6/14/00	6/14/00	1	0.05 MG/L	0.07 MG/L		AR
Potassium, Dissolv	SW846-6010B	6/14/00	6/14/00	1	0.7 MG/L	36 MG/L		AR
Sodium, Dissolved	SW846-6010B	6/14/00	6/14/00	25	25 MG/L	2400 MG/L		AR
Strontium, Dissolv	SW846-6010B	6/14/00	6/14/00	1	0.1 MG/L	12 MG/L		AR

QUALITY ASSURANCE/QUALITY CONTROL

QC BATCH IDs

ANALYTE	QC BATCH ID	ANALYTE	QC BATCH ID	ANALYTE	QC BATCH ID
Barium, Dissolved	ICPB1712	Boron, Dissolved	ICPB1712	Calcium, Dissolved	ICPB1712
Iron, Dissolved	ICPB1712	Lithium, Dissolved	ICPB1712	Magnesium, Dissolved	ICPB1712
Manganese, Dissolved	ICPB1712	Potassium, Dissolved	ICPB1712	Sodium, Dissolved	ICPB1712
Strontium, Dissolved	ICPB1712				

METALS DISSOLVED - Uranium

Enviro-Test Laboratories LLC.

Chemical Analysis Report

PDP ANALYTICAL SERVICES

Attn: SEAN SUNDQUIST

1680 LAKE FRONT CIRCLE SIUTE B

THE WOODLANDS TX 77380

Date: 30 JUN 2000

Lab Work Order #: L1550

Date Received: 07 JUN 2000

Project P.O. #:

Project Reference:

Comments:

APPROVED BY: _____

Dave Demorest

Project Manager

Enviro • Test
LABORATORIES LLC.
420 West Street Casper, Wyoming 8260
Phone: (307) 235-5741 Fax:(307) 266-1676
Toll Free 1(800)666-030

Limit of Liability: Although care and due diligence is taken in the performance of our services, our liability in all cases is limited to re-analysis at our expense or refunding the analytical costs charged for the work performed.

Chemical Analysis Report

PDP ANALYTICAL SERVICES
1680 LAKE FRONT CIRCLE
SIUTE B
THE WOODLANDS TX 77380

ATTN: SEAN SUNDQUIST

Report Date: 30-JUN-00
Page: 2 of 3
PO No.:
WO NO.: L1550

Sample ID: 6124-001
Job Name:
Sampled By: CLIENT

Date Collected:
Lab Sample ID: L1550-1
Matrix:

Test Description	Result	Units of Measure	D.L.	Analyzed	By
Misc					
Uranium (U)	0.0460	mg/L	0.00002	16-JUN-00	GC

Enviro • Test
LABORATORIES LLC.
420 West Street Casper, Wyoming 8260'
Phone: (307) 235-5741 Fax:(307) 266-1676
Toll Free 1(800)666-030€

Limit of Liability: Although care and due diligence is taken in the performance of our services, our liability in all cases is limited to re-analysis at our expense or refunding the analytical costs charged for the work performed.

Methodology Reference

ETL Test Code	Matrix	Test Description	Methodology Reference
U-TOT-LOW-CA	Water	Uranium (U)-Total	SM 3125-ICP-MS

Limit of Liability: Although care and due diligence is taken in the performance of our services, our liability in all cases is limited to re-analysis at our expense or refunding the analytical costs charged for the work performed.

NITRATE/NITRITE

PDP Analytical Services

1680 Lake Front Circle, Suite B, The Woodlands, TX 77380

LABORATORY REPORT

NITRATE BY ION CHROMATOGRAPHY

CLIENT NAME : MEVATEC
PROJECT NAME : HELSTF TSA POOL
PROJECT NUMBER : 70B9
PRINTED ON : 7/6/2000 16:33

PARAMETER: Nitrate (as N)

CLIENT SAMPLE ID	26030-MW003-0600-Q	26030-MW003-0600-QA	PREP BLANK	LAB CONTROL SAMP
SAMPLE ID	6124.001	6124.001DL1	ICBLK23	ICLCS23
SAMPLE MATRIX	WATER	WATER		
DATE SAMPLED	6/1/00	6/1/00		
DATE RECEIVED	6/2/00	6/2/00		
METHOD REFERENCE	EPA-300	EPA-300	EPA-300	EPA-300
QUANTITATION LIMIT	1	20	0.1	0.1
RESULTS	12	ND	ND	1.7
UNITS	MG/L	MG/L	MG/L	MG/L
QUALIFIER				
ANALYST	GSR	GSR	GSR	GSR
DATE ANALYZED	06/27/00	06/28/00	06/27/00	06/27/00
DILUTION	10	200	1	1
INSTRUMENT FILE	0627A0C1.D16	0628A001.D10	0627A0C1.D09	0627A0C1.D10
INSTRUMENT ID	A-DIONEX300	A-DIONEX300	A-DIONEX300	A-DIONEX300
QC BATCH ID	IC23	IC23	IC23	IC23
PRE-PREP BLANK ID				
PREP BLANK ID	ICBLK23	ICBLK23	ICBLK23	ICBLK23
LCS ID	ICLCS23	ICLCS23		
LCSD ID				
MS ID				
MSD ID				
DUP ID				

pH

PDP Analytical Services

1680 Lake Front Circle, Suite B, The Woodlands, TX 77380

LABORATORY REPORT

pH

CLIENT NAME : MEVATEC
PROJECT NAME : HELSTF TSA POOL
PROJECT NUMBER : 70B9
PRINTED ON : 6/7/2000 16:21

PARAMETER: pH

CLIENT SAMPLE ID	26030-MW003-0600-Q	26030-MW003-0600-QA	LAB CONTROL SAMP	LAB CONTROL SAMP
SAMPLE ID	6124.001	6124.001DUP1	PHLCS071	PHLCS071D
SAMPLE MATRIX	WATER	WATER		
DATE SAMPLED	6/1/00	6/1/00		
DATE RECEIVED	6/2/00	6/2/00		
METHOD REFERENCE	EPA-150.1	EPA-150.1	EPA-150.1	EPA-150.1
QUANTITATION LIMIT	0	0	0	0
RESULTS	7.68	7.69	8.84	8.83
UNITS	UNITS	UNITS	UNITS	UNITS
QUALIFIER				
ANALYST	JA	JA	JA	JA
DATE ANALYZED	06/07/00	06/07/00	06/07/00	06/07/00
QC BATCH ID	PH071	PH071	PH071	PH071
PRE-PREP BLANK ID				
PREP BLANK ID				
LCS ID	PHLCS071	PHLCS071		
LCSD ID	PHLCS071D	PHLCS071D		
DUP ID	6124.001DUP1	6124.001DUP1		

PHOSPHUROUS

PDP Analytical Services

1680 Lake Front Circle, Suite B, The Woodlands, TX 77380

LABORATORY REPORT

TOTAL PHOSPHORUS

CLIENT NAME : MEVATEC
PROJECT NAME : HELSTF TSA POOL
PROJECT NUMBER : 70B9
PRINTED ON : 6/12/2000 14:12

PARAMETER: Phosphorus, total (as P)

CLIENT SAMPLE ID	26030-MW003-0600-Q	26030-MW003-0600-QA	26030-MW003-0600-QA	PREP BLANK
SAMPLE ID	6124.001	6124.001MS	6124.001MSD	TPBLK019
SAMPLE MATRIX	WATER	WATER	WATER	
DATE SAMPLED	6/1/00	6/1/00	6/1/00	
DATE RECEIVED	6/2/00	6/2/00	6/2/00	
METHOD REFERENCE	4500-PE	4500-PE	4500-PE	4500-PE
QUANTITATION LIMIT	0.01	0.01	0.01	0.01
RESULTS	0.128	0.356	0.356	ND
UNITS	MG/L	MG/L	MG/L	MG/L
QUALIFIER				
ANALYST	JA	JA	JA	JA
DATE ANALYZED	06/08/00	06/08/00	06/08/00	06/08/00
DATE PREPPED	06/08/00	06/08/00	06/08/00	06/08/00
DILUTION	1	1	1	1
QC BATCH ID	TP019	TP019	TP019	TP019
PRE-PREP BLANK ID				
PREP BLANK ID	TPBLK019	TPBLK019	TPBLK019	TPBLK019
LCS ID	TPLCS019	TPLCS019	TPLCS019	
LCSD ID	TPLCS019D	TPLCS019D	TPLCS019D	
MS ID	6124.001MS		6124.001MS	
MSD ID	6124.001MSD			
DUP ID				

PDP Analytical Services

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LABORATORY REPORT

TOTAL PHOSPHORUS

CLIENT NAME	:	MEVATEC	PROJECT NUMBER	:	70B9
PROJECT NAME	:	HELSTF TSA POOL	PRINTED ON	:	6/12/2000 14:12

PARAMETER: Phosphorus, total (as P)

CLIENT SAMPLE ID	LAB CONTROL SAMP	LAB CONTROL SAMP		
SAMPLE ID	TPLCS019	TPLCS019D		
SAMPLE MATRIX				
DATE SAMPLED				
DATE RECEIVED				
METHOD REFERENCE	4500-PE	4500-PE		
QUANTITATION LIMIT	0.01	0.01		
RESULTS	0.246	0.242		
UNITS	MG/L	MG/L		
QUALIFIER				
ANALYST	JA	JA		
DATE ANALYZED	06/08/00	06/08/00		
DATE PREPPED	06/08/00	06/08/00		
DILUTION	1	1		
QC BATCH ID	TP019	TP019		
PRE-PREP BLANK ID				
PREP BLANK ID	TPBLK019	TPBLK019		
LCS ID		TPLCS019		
LCSD ID				
MS ID				
MSD ID				
DUP ID				

SULFATE

PDP Analytical Services

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LABORATORY REPORT

SULFATE BY ION CHROMATOGRAPHY

CLIENT NAME : MEVATEC
PROJECT NAME : HELSTF TSA POOL
PROJECT NUMBER : 70B9
PRINTED ON : 7/6/2000 16:33

PARAMETER: Sulfate (as SO4)

CLIENT SAMPLE ID	26030-MW003-0600-Q	26030-MW003-0600-QA	PREP BLANK	LAB CONTROL SAMP
SAMPLE ID	6124.001	6124.001DL1	ICBLK23	ICLCS23
SAMPLE MATRIX	WATER	WATER		
DATE SAMPLED	6/1/00	6/1/00		
DATE RECEIVED	6/2/00	6/2/00		
METHOD REFERENCE	EPA-300	EPA-300	EPA-300	EPA-300
QUANTITATION LIMIT	5	100	0.5	0.5
RESULTS	6510	5240	ND	3.54
UNITS	MG/L	MG/L	MG/L	MG/L
QUALIFIER				
ANALYST	GSR	GSR	GSR	GSR
DATE ANALYZED	06/27/00	06/28/00	06/27/00	06/27/00
DILUTION	10	200	1	1
INSTRUMENT FILE	0627A0C1.D16	0628A001.D10	0627A0C1.D09	0627A0C1.D10
INSTRUMENT ID	A-DIONEX300	A-DIONEX300	A-DIONEX300	A-DIONEX300
QC BATCH ID	IC23	IC23	IC23	IC23
PRE-PREP BLANK ID				
PREP BLANK ID	ICBLK23	ICBLK23	ICBLK23	ICBLK23
LCS ID	ICLCS23	ICLCS23		
LCSD ID				
MS ID				
MSD ID				
DUP ID				

TOTAL DISSOLVED SOLIDS (TDS)

PDP Analytical Services

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LABORATORY REPORT

TOTAL DISSOLVED SOLIDS (TDS)

CLIENT NAME : MEVATEC
PROJECT NAME : HELSTF TSA POOL
PROJECT NUMBER : 70B9
PRINTED ON : 6/12/2000 12:29

PARAMETER: Total Dissolved Solids

CLIENT SAMPLE ID	26030-MW003-0600-Q	26030-MW003-0600-QA	PREP BLANK	LAB CONTROL SAMP
SAMPLE ID	6124.001	6124.001DUP1	TDSBLK032	TDSLCS032
SAMPLE MATRIX	WATER	WATER		
DATE SAMPLED	6/1/00	6/1/00		
DATE RECEIVED	6/2/00	6/2/00		
METHOD REFERENCE	EPA-160.1	EPA-160.1	EPA-160.1	EPA-160.1
QUANTITATION LIMIT	10	10	10	10
RESULTS	8550	8930	ND	510
UNITS	MG/L	MG/L	MG/L	MG/L
QUALIFIER				
ANALYST	JA	JA	JA	JA
DATE ANALYZED	06/08/00	06/08/00	06/08/00	06/08/00
QC BATCH ID	TDS032	TDS032	TDS032	TDS032
PRE-PREP BLANK ID				
PREP BLANK ID	TDSBLK032	TDSBLK032	TDSBLK032	TDSBLK032
LCS ID	TDSLCS032	TDSLCS032		
LCSD ID	TDSLCS032D	TDSLCS032D		
DUP ID	6124.001DUP1	6124.001DUP1		

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LABORATORY REPORT

TOTAL DISSOLVED SOLIDS (TDS)

CLIENT NAME : MEVATEC PROJECT NUMBER : 7089

PROJECT NAME : HELSTF TSA POOL PRINTED ON : 6/12/2000 12:29

PARAMETER: Total Dissolved Solids

CLIENT SAMPLE ID	**LAB CONTROL SAMP**			
SAMPLE ID	**TDSLCS032D**			
SAMPLE MATRIX				
DATE SAMPLED				
DATE RECEIVED				
METHOD REFERENCE	EPA-160.1			
QUANTITATION LIMIT	10			
RESULTS	490			
UNITS	MG/L			
QUALIFIER				
ANALYST	JA			
DATE ANALYZED	06/08/00			
QC BATCH ID	TDS032			
PRE-PREP BLANK ID				
PREP BLANK ID	TDSBLK032			
LCS ID				
LCSD ID				
DUP ID				

TPH8015A-Purgeables

PDP Analytical Services

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LABORATORY REPORT

TPH PURGEABLES BY GC/FID

CLIENT NAME :	MEVATEC	CLIENT SAMPLE ID :	26030-MW003-0600-QA
PROJECT NAME :	HELSTF TSA POOL	LAB SAMPLE ID :	6124.001
PROJECT NUMBER :	70B9	METHOD REFERENCE :	SW846-8015A
DATE SAMPLED :	6/1/00	DATE RECEIVED :	6/2/00
SAMPLE MATRIX :	WATER	PRINTED ON :	6/12/2000 14:54

ANALYST	: DR	DATE ANALYZED	: 06/09/00
DILUTION	: 1	INSTRUMENT FILE	: B01243.D
INSTRUMENT ID	: B-HP5890	PURGE VOLUME	: 40 mL
TIME ANALYZED	: 16:15		

PARAMETER	QUANTITATION LIMIT	RESULTS	QUALIFIER
Total Petroleum Hydrocarbons - Gasoline Range	31 UG/L	1.2 UG/L	J

QUALITY CONTROL DATA

SURROGATE COMPOUND	SPIKE ADDED	QC RECOVERY LIMITS	%RECOVERY
a,a,a-Trifluorotoluene	6.2 UG/L	75 - 125	76

BATCH QUALITY CONTROL SAMPLE IDs

QC BATCH ID : G31	PREP BLANK ID : GBLK31	LCS ID : GLCS29
MS ID : 6124.001MS	MSD ID : 6124.001MSD	

Quality Control Data

ALKALINITY/BICARBONATE

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LCS/LCSD SUMMARY REPORT

ALKALINITY (TITRIMETRIC)

CLIENT NAME :
PROJECT NAME :
PROJECT NUMBER :

DATE RECEIVED :
PRINTED ON :6/21/2000 16:12

SAMPLE MATRIX :LIQUID
METHOD REFERENCE :EPA-310.1

LAB CONTROL SAMPLE
LCS SAMPLE ID :ALCS041
CLIENT SAMPLE ID :
DATE ANALYZED :06/07/00
INSTRUMENT FILE :

LAB CONTROL SAMPLE DUPLICATE
LCSD SAMPLE ID :ALCS041D
CLIENT SAMPLE ID :
DATE ANALYZED :06/07/00
INSTRUMENT FILE :

PARAMETER	UNIT	LCS TRUE VALUE	LCSD TRUE VALUE	LCS FOUND VALUE	LCSD FOUN VALUE	LCS RECOVER (%)	LCSD RECOVERY (%)	RPD	RPD LIMIT	QC LIMIT REC.
Alkalinity, Bicarbonate (as HCO3	MG/L	183	183	175	187	96	102	6.1	20	90 - 110

* Indicate values outside of QC limits

RPD : 0 out of 1 outside limits
Spike Recovery : 0 out of 2 outside limits

PDP Analytical Services

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DUPLICATE SUMMARY REPORT

ALKALINITY (TITRIMETRIC)

CLIENT NAME	: MEVATEC	DATE RECEIVED	: 6/2/00
PROJECT NAME	: HELSTF TSA POOL	PRINTED ON	: 6/21/2000
PROJECT NUMBER	: 70B9		
SAMPLE MATRIX	: WATER	METHOD REFERENCE	: EPA-310.1
SAMPLE		SAMPLE DUPLICATE	
SAMPLE ID	:	DUP SAMPLE ID	: 6124.001DUP1
CLIENT SAMPLE ID	: 26030-MW003-0600-QA	CLIENT SAMPLE ID	: 26030-MW003-0600-QAD
DATE ANALYZED	: 06/07/00	DATE ANALYZED	: 06/07/00
GC FILE ID	:	INSTRUMENT FILE	:

COMPOUND	SAMPLE CONC.	DUP. CONC.	UNITS	RPD	RPD LIMITS
Alkalinity, Bicarbonate (as HCO3)	99	98	MG/L	1.0	20

* Indicate values outside of QC limits

RPD : 0 out of 1 outside limits

ALKALINITY/CARBONATE

PDP Analytical Services

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DUPLICATE SUMMARY REPORT

ALKALINITY (TITRIMETRIC)

CLIENT NAME	: MEVATEC	DATE RECEIVED	: 6/2/00
PROJECT NAME	: HELSTF TSA POOL	PRINTED ON	: 6/16/2000
PROJECT NUMBER	: 70B9		
SAMPLE MATRIX	: WATER	METHOD REFERENCE	: EPA-310.1
SAMPLE		SAMPLE DUPLICATE	
SAMPLE ID	:	DUP SAMPLE ID	: 6124.001DUP1
CLIENT SAMPLE ID	: 26030-MW003-0600-QA	CLIENT SAMPLE ID	: 26030-MW003-0600-QA
DATE ANALYZED	: 06/07/00	DATE ANALYZED	: 06/07/00
GC FILE ID	:	INSTRUMENT FILE	:

COMPOUND	SAMPLE CONC.	DUP. CONC.	UNITS	RPD	RPD LIMITS
Alkalinity, Carbonate (as CO3)	0	0	MG/L	0.0	20

* Indicate values outside of QC limits

RPD : 0 out of 1 outside limits

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LCS/LCSD SUMMARY REPORT

ALKALINITY (TITRIMETRIC)

CLIENT NAME :
PROJECT NAME :
PROJECT NUMBER :

DATE RECEIVED :
PRINTED ON :7/11/2000 11:03

SAMPLE MATRIX :LIQUID

METHOD REFERENCE :EPA-310.1

LAB CONTROL SAMPLE

LCS SAMPLE ID :ALCS041
CLIENT SAMPLE ID :
DATE ANALYZED :06/07/00
INSTRUMENT FILE :

LAB CONTROL SAMPLE DUPLICATE

LCSD SAMPLE ID :ALCS041D
CLIENT SAMPLE ID :
DATE ANALYZED :06/07/00
INSTRUMENT FILE :

PARAMETER	UNIT	LCS TRUE VALUE	LCSD TRUE VALUE	LCS FOUND VALUE	LCSD FOUN VALUE	LCS RECOVER (%)	LCSD RECOVERY (%)	RPD	RPD LIMIT	QC LIMIT REC.
Alkalinity, Carbonate (as CO3)	MG/L	180	180	180	180	100	100	0.0	20	90 - 110

* Indicate values outside of QC limits

RPD : 0 out of 1 outside limits
Spike Recovery : 0 out of 2 outside limits

BROMIDE

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LCS/LCSD SUMMARY REPORT

BROMIDE BY ION CHROMATOGRAPHY

CLIENT NAME :
PROJECT NAME :
PROJECT NUMBER :

DATE RECEIVED :
PRINTED ON :7/6/2000 16:58

SAMPLE MATRIX :LIQUID
METHOD REFERENCE :EPA-300

LAB CONTROL SAMPLE
LCS SAMPLE ID :ICLCS23
CLIENT SAMPLE ID :
DATE ANALYZED :06/27/00
INSTRUMENT FILE :0627A0C1.D10

LAB CONTROL SAMPLE DUPLICATE
LCSD SAMPLE ID :
CLIENT SAMPLE ID :
DATE ANALYZED :
INSTRUMENT FILE :

PARAMETER	UNIT	LCS TRUE VALUE	LCSD TRUE VALUE	LCS FOUND VALUE	LCSD FOUN VALUE	LCS RECOVER (%)	LCSD RECOVERY (%)	RPD	RPD LIMIT	QC LIMIT REC.
Bromide	MG/L	2.00		1.81		91			20	80 - 120

* Indicate values outside of QC limits

RPD : 0 out of 0 outside limits
Spike Recovery : 0 out of 1 outside limits

BTEX

PDP Analytical Services

1680 Lake Front Circle, Suite B, The Woodlands, TX 77380

LABORATORY REPORT

BTEX & MTBE BY GC/PID

CLIENT NAME :		CLIENT SAMPLE ID :	Prep Blank
PROJECT NAME :		LAB SAMPLE ID :	BBLK33
PROJECT NUMBER :		METHOD REFERENCE :	SW846-8021B
DATE SAMPLED :		DATE RECEIVED :	
SAMPLE MATRIX :	LIQUID	PRINTED ON :	6/12/2000 15:46

ANALYST	: DR	DATE ANALYZED	: 06/12/00
DILUTION	: 1	INSTRUMENT FILE	: B01249.D
INSTRUMENT ID	: B-HP5890B	PURGE VOLUME	: 40 mL
TIME ANALYZED	: 09:42		

PARAMETER	QUANTITATION LIMIT	RESULTS	QUALIFIER
Benzene	0.625 UG/L	ND UG/L	
Ethyl benzene	0.625 UG/L	ND UG/L	
Methyl tert-butyl ether	0.625 UG/L	ND UG/L	
Toluene	0.625 UG/L	ND UG/L	
Xylene (total)	0.625 UG/L	ND UG/L	

QUALITY CONTROL DATA

SURROGATE COMPOUND	SPIKE ADDED	QC RECOVERY LIMITS	%RECOVERY
a,a,a-Trifluorotoluene	6.25 UG/L	75 - 125	87

BATCH QUALITY CONTROL SAMPLE IDs

QC BATCH ID : B33 PREP BLANK ID : BBLK33

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LABORATORY REPORT

BTEX & MTBE BY GC/PID

CLIENT NAME :		CLIENT SAMPLE ID :	Lab Control Sample
PROJECT NAME :		LAB SAMPLE ID :	BLCS33
PROJECT NUMBER :		METHOD REFERENCE :	SW846-8021B
DATE SAMPLED :		DATE RECEIVED :	
SAMPLE MATRIX :	LIQUID	PRINTED ON :	6/12/2000 15:46

ANALYST	: DR	DATE ANALYZED	: 06/12/00
DILUTION	: 1	INSTRUMENT FILE	: B01250.D
INSTRUMENT ID	: B-HP5890B	PURGE VOLUME	: 40 mL
TIME ANALYZED	: 10:46		

PARAMETER	QUANTITATION LIMIT	RESULTS	QUALIFIER
Benzene	0.625 UG/L	5.36 UG/L	
Ethyl benzene	0.625 UG/L	5.12 UG/L	
Methyl tert-butyl ether	0.625 UG/L	6.07 UG/L	
Toluene	0.625 UG/L	5.09 UG/L	
Xylene (total)	0.625 UG/L	15.0 UG/L	

QUALITY CONTROL DATA

SURROGATE COMPOUND	SPIKE ADDED	QC RECOVERY LIMITS	%RECOVERY
a,a,a-Trifluorotoluene	6.25 UG/L	75 - 125	88

BATCH QUALITY CONTROL SAMPLE IDs

QC BATCH ID : B33 PREP BLANK ID : BBLK33

PDP Analytical Services

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LCS/LCSD SUMMARY REPORT

BTEX & MTBE BY GC/PID

CLIENT NAME :
PROJECT NAME :
PROJECT NUMBER :

DATE RECEIVED :
PRINTED ON : 6/12/2000 15:46

SAMPLE MATRIX : LIQUID

METHOD REFERENCE : SW846-8021B

LAB CONTROL SAMPLE

LCS SAMPLE ID : BLCS33
CLIENT SAMPLE ID :
DATE ANALYZED : 06/12/00
INSTRUMENT FILE : B01250.D

LAB CONTROL SAMPLE DUPLICATE

LCSD SAMPLE ID :
CLIENT SAMPLE ID :
DATE ANALYZED :
INSTRUMENT FILE :

PARAMETER	UNIT	LCS TRUE VALUE	LCSD TRUE VALUE	LCS FOUND VALUE	LCSD FOUN VALUE	LCS RECOVER (%)	LCSD RECOVERY (%)	RPD	RPD LIMIT	QC LIMIT REC.
Benzene	UG/L	6.25		5.36		86			25	75 - 125
Ethyl benzene	UG/L	6.25		5.12		82			25	75 - 125
Methyl tert-butyl ether	UG/L	6.25		6.07		97			25	75 - 125
Toluene	UG/L	6.25		5.09		81			25	75 - 125
Xylene (total)	UG/L	18.7		15.0		80			25	75 - 125

* Indicate values outside of QC limits

RPD : 0 out of 0 outside limits
Spike Recovery : 0 out of 5 outside limits

PDP Analytical Services

1680 Lake Front Circle, Suite B, The Woodlands, TX 77380

LABORATORY REPORT

BTEX & MTBE BY GC/PID

CLIENT NAME	: MEVATEC	CLIENT SAMPLE ID	: 26030-MW003-0600-QAMS1
PROJECT NAME	: HELSTF TSA POOL	LAB SAMPLE ID	: 6124.001MS
PROJECT NUMBER	: 70B9	METHOD REFERENCE	: SW846-8021B
DATE SAMPLED	: 6/1/00	DATE RECEIVED	: 6/2/00
SAMPLE MATRIX	: WATER	PRINTED ON	: 6/12/2000 15:46

ANALYST	: DR	DATE ANALYZED	: 06/12/00
DILUTION	: 1	INSTRUMENT FILE	: B01252.D
INSTRUMENT ID	: B-HP5890B	PURGE VOLUME	: 40 mL
TIME ANALYZED	: 11:57		

PARAMETER	QUANTITATION LIMIT	RESULTS	QUALIFIER
Benzene	0.625 UG/L	5.69 UG/L	
Ethyl benzene	0.625 UG/L	5.28 UG/L	
Methyl tert-butyl ether	0.625 UG/L	6.73 UG/L	
Toluene	0.625 UG/L	5.40 UG/L	
Xylene (total)	0.625 UG/L	15.6 UG/L	

QUALITY CONTROL DATA

SURROGATE COMPOUND	SPIKE ADDED	QC RECOVERY LIMITS	%RECOVERY
a,a,a-Trifluorotoluene	6.25 UG/L	75 - 125	92

BATCH QUALITY CONTROL SAMPLE IDs

QC BATCH ID : B33	PREP BLANK ID : BBLK33	LCS ID : BLCS33

PDP Analytical Services

1680 Lake Front Circle, Suite B, The Woodlands, TX 77380

LABORATORY REPORT

BTEX & MTBE BY GC/PID

CLIENT NAME	: MEVATEC	CLIENT SAMPLE ID	: 26030-MW003-0600-QAMSD1
PROJECT NAME	: HELSTF TSA POOL	LAB SAMPLE ID	: 6124.001MSD
PROJECT NUMBER	: 70B9	METHOD REFERENCE	: SW846-8021B
DATE SAMPLED	: 6/1/00	DATE RECEIVED	: 6/2/00
SAMPLE MATRIX	: WATER	PRINTED ON	: 6/12/2000 15:46

ANALYST	: DR	DATE ANALYZED	: 06/12/00
DILUTION	: 1	INSTRUMENT FILE	: B01253.D
INSTRUMENT ID	: B-HP5890B	PURGE VOLUME	: 40 mL
TIME ANALYZED	: 12:24		

PARAMETER	QUANTITATION LIMIT	RESULTS	QUALIFIER
Benzene	0.625 UG/L	5.72 UG/L	
Ethyl benzene	0.625 UG/L	5.13 UG/L	
Methyl tert-butyl ether	0.625 UG/L	6.80 UG/L	
Toluene	0.625 UG/L	5.41 UG/L	
Xylene (total)	0.625 UG/L	15.8 UG/L	

QUALITY CONTROL DATA

SURROGATE COMPOUND	SPIKE ADDED	QC RECOVERY LIMITS	%RECOVERY
a,a,a-Trifluorotoluene	6.25 UG/L	75 - 125	92

BATCH QUALITY CONTROL SAMPLE IDs

QC BATCH ID : B33 PREP BLANK ID : BBLK33 LCS ID : BLCS33

MS ID : 6124.001MS

PDP Analytical Services

1680 Lake Front Circle, Suite B, The Woodlands, TX 77380

MS/MSD SUMMARY REPORT

BTEX & MTBE BY GC/PID

CLIENT NAME : MEVATEC
PROJECT NAME : HELSTF TSA POOL
PROJECT NUMBER : 70B9

DATE RECEIVED : 6/2/00
PRINTED ON : 6/12/2000 15:46

SAMPLE MATRIX : WATER

METHOD REFERENCE : SW846-8021B

SAMPLE	MATRIX SPIKE	MATRIX SPIKE DUPLICATE
SAMPLE ID : 6124.001	MS SAMPLE ID : 6124.001MS	MSD SAMPLE ID : 6124.001MSD
CLIENT SAMPLE ID : 26030-MW003-0600-QA	CLIENT SAMPLE ID : 26030-MW003-0600-QA	CLIENT SAMPLE ID : 26030-MW003-0600-QA
DATE ANALYZED : 06/12/00	DATE ANALYZED : 06/12/00	DATE ANALYZED : 06/12/00
INSTRUMENT FILE : B01251.D	INSTRUMENT FILE : B01252.D	INSTRUMENT FILE : B01253.D

PARAMETER	UNITS	MS SPIKE ADDED	MSD SPIKE ADDED	SAMPL CONC.	MS CONC.	MSD CONC.	MS RECOVERY (%)	MSD RECOVERY (%)	RPD	RPD LIMIT	QC LIMIT REC.
Benzene	UG/L	6.25	6.25	0	5.69	5.72	91	92	1.1	25	75 - 125
Ethyl benzene	UG/L	6.25	6.25	0	5.28	5.13	84	82	2.4	25	75 - 125
Methyl tert-butyl ether	UG/L	6.25	6.25	0	6.73	6.80	108	109	0.9	25	75 - 125
Toluene	UG/L	6.25	6.25	0	5.40	5.41	86	87	1.2	25	75 - 125
Xylene (total)	UG/L	18.7	18.7	0	15.6	15.8	83	84	1.2	25	75 - 125

* Indicate values outside of QC limits

RPD : 0 out of 5 outside limits
Spike Recovery : 0 out of 10 outside limits

CHLORIDE

PDP Analytical Services

1680 Lake Front Circle, Suite B, The Woodlands, TX 77380

LCS/LCSD SUMMARY REPORT

CHLORIDE BY ION CHROMATOGRAPHY

CLIENT NAME :
PROJECT NAME :
PROJECT NUMBER :

DATE RECEIVED :
PRINTED ON : 7/6/2000 16:33

SAMPLE MATRIX : LIQUID
METHOD REFERENCE : EPA-300

LAB CONTROL SAMPLE

LCS SAMPLE ID : ICLCS23
CLIENT SAMPLE ID :
DATE ANALYZED : 06/27/00
INSTRUMENT FILE : 0627A0C1.D10

LAB CONTROL SAMPLE DUPLICATE

LCSD SAMPLE ID :
CLIENT SAMPLE ID :
DATE ANALYZED :
INSTRUMENT FILE :

PARAMETER	UNIT	LCS TRUE VALUE	LCSD TRUE VALUE	LCS FOUND VALUE	LCSD FOUN VALUE	LCS RECOVER (%)	LCSD RECOVERY (%)	RPD	RPD LIMIT	QC LIMIT REC.
Chloride as Cl	MG/L	2.00		1.67		84			20	80 - 120

* Indicate values outside of QC limits

RPD : 0 out of 0 outside limits
Spike Recovery : 0 out of 1 outside limits

PDP Analytical Services

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MS/MSD SUMMARY REPORT

CHLORIDE BY ION CHROMATOGRAPHY

CLIENT NAME : COMPLETE ENVIRNOMENTAL SERVICES
PROJECT NAME : LHAAP-GWTP
PROJECT NUMBER :

DATE RECEIVED : 6/23/00
PRINTED ON : 7/6/2000 16:33

SAMPLE MATRIX : WATER

METHOD REFERENCE : EPA-300

SAMPLE	MATRIX SPIKE	MATRIX SPIKE DUPLICATE
SAMPLE ID : 6161.007	MS SAMPLE ID : 6161.007MS	MSD SAMPLE ID : 6161.007MSD
CLIENT SAMPLE ID : LH18/24-ICT7-1004	CLIENT SAMPLE ID : LH18/24-ICT7-1004MS	CLIENT SAMPLE ID : LH18/24-ICT7-1004MS
DATE ANALYZED : 06/28/00	DATE ANALYZED : 06/28/00	DATE ANALYZED : 06/28/00
INSTRUMENT FILE : 0628A011.D05	INSTRUMENT FILE : 0628A011.D06	INSTRUMENT FILE : 0628A011.D07

PARAMETER	UNITS	MS SPIKE ADDED	MSD SPIKE ADDED	SAMPL CONC.	MS CONC.	MSD CONC.	MS RECOVERY (%)	MSD RECOVERY (%)	RPD	RPD LIMIT	QC LIMIT REC.
Chloride as Cl	MG/L	20.0	20.0	41.1	78.2	73.1	186 *	160 *	15.0	20	80 - 120

* Indicate values outside of QC limits

RPD : 0 out of 1 outside limits
Spike Recovery : 2 out of 2 outside limits

CONDUCTIVITY

PDP Analytical Services

1680 Lake Front Circle, Suite B, The Woodlands, TX 77380

DUPLICATE SUMMARY REPORT

SPECIFIC CONDUCTANCE

CLIENT NAME	: MEVATEC	DATE RECEIVED	: 6/2/00
PROJECT NAME	: HELSTF TSA POOL	PRINTED ON	: 6/7/2000
PROJECT NUMBER	: 70B9		
SAMPLE MATRIX	: WATER	METHOD REFERENCE	: EPA-120.1
SAMPLE		SAMPLE DUPLICATE	
SAMPLE ID	:	DUP SAMPLE ID	: 6124.001DUP1
CLIENT SAMPLE ID	: 26030-MW003-0600-QA	CLIENT SAMPLE ID	: 26030-MW003-0600-QA
DATE ANALYZED	: 06/07/00	DATE ANALYZED	: 06/07/00
GC FILE ID	:	INSTRUMENT FILE	:

COMPOUND	SAMPLE CONC.	DUP. CONC.	UNITS	RPD	RPD LIMITS
Conductivity	17.3	17.4	US/CM	0.6	20

* Indicate values outside of QC limits

RPD : 0 out of 1 outside limits

PDP Analytical Services
1680 Lake Front Circle, Suite B, The Woodlands, TX 77380

LCS/LCSD SUMMARY REPORT

SPECIFIC CONDUCTANCE

CLIENT NAME :
PROJECT NAME :
PROJECT NUMBER :

DATE RECEIVED :
PRINTED ON :7/11/2000 11:02

SAMPLE MATRIX :LIQUID

METHOD REFERENCE :EPA-120.1

LAB CONTROL SAMPLE
LCS SAMPLE ID :COLCS015
CLIENT SAMPLE ID :
DATE ANALYZED :06/07/00
INSTRUMENT FILE :

LAB CONTROL SAMPLE DUPLICATE
LCSD SAMPLE ID :COLCS015D
CLIENT SAMPLE ID :
DATE ANALYZED :06/07/00
INSTRUMENT FILE :

PARAMETER	UNIT	LCS TRUE VALUE	LCSD TRUE VALUE	LCS FOUND VALUE	LCSD FOUN VALUE	LCS RECOVER (%)	LCSD RECOVERY (%)	RPD	RPD LIMIT	QC LIMIT REC.
Conductivity	UMHO/	100	100	100	99.1	100	99	1.0	20	80 - 120

* Indicate values outside of QC limits

RPD : 0 out of 1 outside limits
Spike Recovery : 0 out of 2 outside limits

FLUORIDE

PDP Analytical Services
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LCS/LCSD SUMMARY REPORT

FLUORIDE BY ION CHROMATOGRAPHY

CLIENT NAME :
PROJECT NAME :
PROJECT NUMBER :

DATE RECEIVED :
PRINTED ON : 7/11/2000 11:06

SAMPLE MATRIX : LIQUID
METHOD REFERENCE : EPA-300

LAB CONTROL SAMPLE
LCS SAMPLE ID : ICLCS23
CLIENT SAMPLE ID :
DATE ANALYZED : 06/27/00
INSTRUMENT FILE : 0627A0C1.D10

LAB CONTROL SAMPLE DUPLICATE
LCSD SAMPLE ID :
CLIENT SAMPLE ID :
DATE ANALYZED :
INSTRUMENT FILE :

PARAMETER	UNIT	LCS TRUE VALUE	LCSD TRUE VALUE	LCS FOUND VALUE	LCSD FOUN VALUE	LCS RECOVER (%)	LCSD RECOVERY (%)	RPD	RPD LIMIT	QC LIMIT REC.
Fluoride as F	MG/L	2.0		1.6		80			20	80 - 120

* Indicate values outside of QC limits

RPD : 0 out of 0 outside limits
Spike Recovery : 0 out of 1 outside limits

METALS DISSOLVED

1680 Lake Front Circle, Suite B, The Woodlands, TX 77380
PDP Analytical Services

LABORATORY REPORT

DISSOLVED METALS

CLIENT NAME :		CLIENT SAMPLE ID :	Prep Blank
PROJECT NAME :		LAB SAMPLE ID :	ICPB1712
PROJECT NUMBER :		DATE RECEIVED :	
DATE SAMPLED :		PRINTED ON :	6/16/2000 9:31
SAMPLE MATRIX :	LIQUID	% MOISTURE :	

ANALYTE	METHOD	DATE PREPARED	DATE ANALYZED	DILU-TION	QUANTITATION LIMIT	RESULT	Q	ANA-LYST
Barium, Dissolved	SW846-6010B	6/14/00	6/14/00	1	0.05 MG/L	ND MG/L		AR
Boron, Dissolved	SW846-6010B	6/14/00	6/14/00	1	0.5 MG/L	ND MG/L		AR
Calcium, Dissolved	SW846-6010B	6/14/00	6/14/00	1	0.1 MG/L	ND MG/L		AR
Iron, Dissolved	SW846-6010B	6/14/00	6/14/00	1	0.2 MG/L	ND MG/L		AR
Lithium, Dissolved	SW846-6010B	6/14/00	6/14/00	1	0.1 MG/L	ND MG/L		AR
Magnesium, Dissolv	SW846-6010B	6/14/00	6/14/00	1	0.1 MG/L	ND MG/L		AR
Manganese, Dissolv	SW846-6010B	6/14/00	6/14/00	1	0.05 MG/L	ND MG/L		AR
Potassium, Dissolv	SW846-6010B	6/14/00	6/14/00	1	0.7 MG/L	ND MG/L		AR
Sodium, Dissolved	SW846-6010B	6/14/00	6/14/00	1	1 MG/L	ND MG/L		AR
Strontium, Dissolv	SW846-6010B	6/14/00	6/14/00	1	0.1 MG/L	ND MG/L		AR

QUALITY ASSURANCE/QUALITY CONTROL

QC BATCH IDs

ANALYTE	QC BATCH ID	ANALYTE	QC BATCH ID	ANALYTE	QC BATCH ID
Barium, Dissolved	ICPB1712	Boron, Dissolved	ICPB1712	Calcium, Dissolved	ICPB1712
Iron, Dissolved	ICPB1712	Lithium, Dissolved	ICPB1712	Magnesium, Dissolved	ICPB1712
Manganese, Dissolved	ICPB1712	Potassium, Dissolved	ICPB1712	Sodium, Dissolved	ICPB1712
Strontium, Dissolved	ICPB1712				

1680 Lake Front Circle, Suite B, The Woodlands, TX 77380
PDP Analytical Services

LABORATORY REPORT

DISSOLVED METALS

CLIENT NAME :		CLIENT SAMPLE ID :	Lab Control Sample
PROJECT NAME :		LAB SAMPLE ID :	ICPL1712
PROJECT NUMBER :		DATE RECEIVED :	
DATE SAMPLED :		PRINTED ON :	6/16/2000 9:41
SAMPLE MATRIX :	LIQUID	% MOISTURE :	

ANALYTE	METHOD	DATE PREPARED	DATE ANALYZED	DILU-TION	QUANTITATION LIMIT	RESULT	Q	ANA-LYST
Barium, Dissolved	SW846-6010B	6/14/00	6/14/00	1	0.05 MG/L	4.70 MG/L		AR
Boron, Dissolved	SW846-6010B	6/14/00	6/14/00	1	0.5 MG/L	2.34 MG/L		AR
Calcium, Dissolved	SW846-6010B	6/14/00	6/14/00	1	0.1 MG/L	12 MG/L		AR
Iron, Dissolved	SW846-6010B	6/14/00	6/14/00	1	0.2 MG/L	2.4 MG/L		AR
Lithium, Dissolved	SW846-6010B	6/14/00	6/14/00	1	0.1 MG/L	0.47 MG/L		AR
Magnesium, Dissolv	SW846-6010B	6/14/00	6/14/00	1	0.1 MG/L	12 MG/L		AR
Manganese, Dissolv	SW846-6010B	6/14/00	6/14/00	1	0.05 MG/L	1.2 MG/L		AR
Potassium, Dissolv	SW846-6010B	6/14/00	6/14/00	1	0.7 MG/L	2.2 MG/L		AR
Sodium, Dissolved	SW846-6010B	6/14/00	6/14/00	1	1 MG/L	11 MG/L		AR
Strontium, Dissolv	SW846-6010B	6/14/00	6/14/00	1	0.1 MG/L	0.45 MG/L		AR

QUALITY ASSURANCE/QUALITY CONTROL

QC BATCH IDs

ANALYTE	QC BATCH ID	ANALYTE	QC BATCH ID	ANALYTE	QC BATCH ID
Barium, Dissolved	ICPB1712	Boron, Dissolved	ICPB1712	Calcium, Dissolved	ICPB1712
Iron, Dissolved	ICPB1712	Lithium, Dissolved	ICPB1712	Magnesium, Dissolved	ICPB1712
Manganese, Dissolved	ICPB1712	Potassium, Dissolved	ICPB1712	Sodium, Dissolved	ICPB1712
Strontium, Dissolved	ICPB1712				

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LABORATORY REPORT

DISSOLVED METALS

CLIENT NAME :		CLIENT SAMPLE ID :	Lab Control Sample
PROJECT NAME :		LAB SAMPLE ID :	ICPL1712D
PROJECT NUMBER :		DATE RECEIVED :	
DATE SAMPLED :		PRINTED ON :	6/16/2000 9:41
SAMPLE MATRIX :	LIQUID	% MOISTURE :	

ANALYTE	METHOD	DATE PREPARED	DATE ANALYZED	DILU-TION	QUANTITATION LIMIT	RESULT	Q	ANA-LYST
Barium, Dissolved	SW846-6010B	6/14/00	6/14/00	1	0.05 MG/L	4.71 MG/L		AR
Boron, Dissolved	SW846-6010B	6/14/00	6/14/00	1	0.5 MG/L	2.37 MG/L		AR
Calcium, Dissolved	SW846-6010B	6/14/00	6/14/00	1	0.1 MG/L	12 MG/L		AR
Iron, Dissolved	SW846-6010B	6/14/00	6/14/00	1	0.2 MG/L	2.3 MG/L		AR
Lithium, Dissolved	SW846-6010B	6/14/00	6/14/00	1	0.1 MG/L	0.46 MG/L		AR
Magnesium, Dissolv	SW846-6010B	6/14/00	6/14/00	1	0.1 MG/L	12 MG/L		AR
Manganese, Dissolv	SW846-6010B	6/14/00	6/14/00	1	0.05 MG/L	1.2 MG/L		AR
Potassium, Dissolv	SW846-6010B	6/14/00	6/14/00	1	0.7 MG/L	2.2 MG/L		AR
Sodium, Dissolved	SW846-6010B	6/14/00	6/14/00	1	1 MG/L	11 MG/L		AR
Strontium, Dissolv	SW846-6010B	6/14/00	6/14/00	1	0.1 MG/L	0.45 MG/L		AR

QUALITY ASSURANCE/QUALITY CONTROL

QC BATCH IDs

ANALYTE	QC BATCH ID	ANALYTE	QC BATCH ID	ANALYTE	QC BATCH ID
Barium, Dissolved	ICPB1712	Boron, Dissolved	ICPB1712	Calcium, Dissolved	ICPB1712
Iron, Dissolved	ICPB1712	Lithium, Dissolved	ICPB1712	Magnesium, Dissolved	ICPB1712
Manganese, Dissolved	ICPB1712	Potassium, Dissolved	ICPB1712	Sodium, Dissolved	ICPB1712
Strontium, Dissolved	ICPB1712				

PDP Analytical Services
1680 Lake Front Circle, Suite B, The Woodlands, TX 77380

LCS/LCSD SUMMARY REPORT

DISSOLVED METALS

CLIENT NAME :
PROJECT NAME :
PROJECT NUMBER :

DATE RECEIVED :
PRINTED ON :6/16/2000 9:41

SAMPLE MATRIX : LIQUID

LAB CONTROL SAMPLE
LCS SAMPLE ID : ICPL1712
CLIENT SAMPLE ID :

LAB CONTROL SAMPLE DUPLICATE
LCSD SAMPLE ID : ICPL1712D
CLIENT SAMPLE ID :

COMPOUND	METHOD REFERENCE	UNITS	LCS TRUE VALUE	LCSD TRUE VALUE	LCS FOUND VALUE	LCSD FOUN VALUE	LCS RECOVER (%)	LCSD RECOVERY (%)	RPD	RPD LIMIT	QC LIMIT REC
Barium, Dissolved	SW846-6010B	MG/L	5.00	5.00	4.70	4.71	94	94	0.0	20	80 - 120
Boron, Dissolved	SW846-6010B	MG/L	2.50	2.50	2.34	2.37	94	95	1.1	20	80 - 120
Calcium, Dissolved	SW846-6010B	MG/L	12	12	12	12	100	100	0.0	20	80 - 120
Iron, Dissolved	SW846-6010B	MG/L	2.50	2.50	2.37	2.35	95	94	1.1	20	80 - 120
Lithium, Dissolved	SW846-6010B	MG/L	0.50	0.50	0.47	0.46	94	92	2.2	20	80 - 120
Magnesium, Dissolve	SW846-6010B	MG/L	12	12	12	12	100	100	0.0	20	80 - 120
Manganese, Dissolve	SW846-6010B	MG/L	1.25	1.25	1.19	1.19	95	95	0.0	20	80 - 120
Potassium, Dissolve	SW846-6010B	MG/L	2.5	2.5	2.2	2.2	88	88	0.0	20	80 -
Sodium, Dissolved	SW846-6010B	MG/L	12	12	11	11	92	92	0.0	20	80 -
Strontium, Dissolve	SW846-6010B	MG/L	0.50	0.50	0.45	0.45	90	90	0.0	20	80 - 120

* Indicate values outside of QC limits

RPD : 0 out of 10 outside limits

Spike Recovery : 0 out of 20 outside limits

1680 Lake Front Circle, Suite B, The Woodlands, TX 77380
PDP Analytical Services

LABORATORY REPORT

DISSOLVED METALS

CLIENT NAME :	MEVATEC	CLIENT SAMPLE ID :	26030-MW003-0600-QAMS
PROJECT NAME :	HELSTF TSA POOL	LAB SAMPLE ID :	6124.001MS
PROJECT NUMBER :	70B9	DATE RECEIVED :	6/2/00
DATE SAMPLED :	6/1/00	PRINTED ON :	6/16/2000 9:34
SAMPLE MATRIX :	WATER	% MOISTURE :	

ANALYTE	METHOD	DATE PREPARED	DATE ANALYZED	DILU-TION	QUANTITATION LIMIT	RESULT	Q	ANA-LYST
Barium, Dissolved	SW846-6010B	6/14/00	6/14/00	1	0.05 MG/L	1.71 MG/L		AR
Boron, Dissolved	SW846-6010B	6/14/00	6/14/00	1	0.5 MG/L	2.80 MG/L		AR
Calcium, Dissolved	SW846-6010B	6/14/00	6/14/00	1	0.1 MG/L	410 MG/L		AR
Iron, Dissolved	SW846-6010B	6/14/00	6/14/00	1	0.2 MG/L	0.89 MG/L		AR
Lithium, Dissolved	SW846-6010B	6/14/00	6/14/00	1	0.1 MG/L	0.54 MG/L		AR
Magnesium, Dissolv	SW846-6010B	6/14/00	6/14/00	1	0.1 MG/L	290 MG/L		AR
Manganese, Dissolv	SW846-6010B	6/14/00	6/14/00	1	0.05 MG/L	0.55 MG/L		AR
Potassium, Dissolv	SW846-6010B	6/14/00	6/14/00	1	0.7 MG/L	38 MG/L		AR
Sodium, Dissolved	SW846-6010B	6/14/00	6/14/00	1	1 MG/L	3000 MG/L		AR
Strontium, Dissolv	SW846-6010B	6/14/00	6/14/00	1	0.1 MG/L	13 MG/L		AR

QUALITY ASSURANCE/QUALITY CONTROL

QC BATCH IDs

ANALYTE	QC BATCH ID	ANALYTE	QC BATCH ID	ANALYTE	QC BATCH ID
Barium, Dissolved	ICPB1712	Boron, Dissolved	ICPB1712	Calcium, Dissolved	ICPB1712
Iron, Dissolved	ICPB1712	Lithium, Dissolved	ICPB1712	Magnesium, Dissolved	ICPB1712
Manganese, Dissolved	ICPB1712	Potassium, Dissolved	ICPB1712	Sodium, Dissolved	ICPB1712
Strontium, Dissolved	ICPB1712				

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PDP Analytical Services

LABORATORY REPORT

DISSOLVED METALS

CLIENT NAME :	MEVATEC	CLIENT SAMPLE ID :	26030-MW003-0600-QAMSD
PROJECT NAME :	HELSTF TSA POOL	LAB SAMPLE ID :	6124.001MSD
PROJECT NUMBER :	70B9	DATE RECEIVED :	6/2/00
DATE SAMPLED :	6/1/00	PRINTED ON :	6/16/2000 9:34
SAMPLE MATRIX :	WATER	% MOISTURE :	

ANALYTE	METHOD	DATE PREPARED	DATE ANALYZED	DILU-TION	QUANTITATION LIMIT	RESULT	Q	ANA-LYST
Barium, Dissolved	SW846-6010B	6/14/00	6/14/00	1	0.05 MG/L	1.70 MG/L		AR
Boron, Dissolved	SW846-6010B	6/14/00	6/14/00	1	0.5 MG/L	2.86 MG/L		AR
Calcium, Dissolved	SW846-6010B	6/14/00	6/14/00	1	0.1 MG/L	430 MG/L		AR
Iron, Dissolved	SW846-6010B	6/14/00	6/14/00	1	0.2 MG/L	0.88 MG/L		AR
Lithium, Dissolved	SW846-6010B	6/14/00	6/14/00	1	0.1 MG/L	0.53 MG/L		AR
Magnesium, Dissolv	SW846-6010B	6/14/00	6/14/00	1	0.1 MG/L	300 MG/L		AR
Manganese, Dissolv	SW846-6010B	6/14/00	6/14/00	1	0.05 MG/L	0.54 MG/L		AR
Potassium, Dissolv	SW846-6010B	6/14/00	6/14/00	1	0.7 MG/L	36 MG/L		AR
Sodium, Dissolved	SW846-6010B	6/14/00	6/14/00	1	1 MG/L	3100 MG/L		AR
Strontium, Dissolv	SW846-6010B	6/14/00	6/14/00	1	0.1 MG/L	13 MG/L		AR

QUALITY ASSURANCE/QUALITY CONTROL

QC BATCH IDs

ANALYTE	QC BATCH ID	ANALYTE	QC BATCH ID	ANALYTE	QC BATCH ID
Barium, Dissolved	ICPB1712	Boron, Dissolved	ICPB1712	Calcium, Dissolved	ICPB1712
Iron, Dissolved	ICPB1712	Lithium, Dissolved	ICPB1712	Magnesium, Dissolved	ICPB1712
Manganese, Dissolved	ICPB1712	Potassium, Dissolved	ICPB1712	Sodium, Dissolved	ICPB1712
Strontium, Dissolved	ICPB1712				

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MS/MSD SUMMARY REPORT

DISSOLVED METALS

CLIENT NAME : MEVATEC
PROJECT NAME : HELSTF TSA POOL
PROJECT NUMBER : 70B9

DATE RECEIVED : 6/2/00
PRINTED ON : 6/16/2000 9:34

SAMPLE MATRIX : WATER

SAMPLE
SAMPLE ID : 6124.001
CLIENT SAMPLE I : 26030-MW003-0600-QA

MATRIX SPIKE
MS SAMPLE ID : 6124.001MS
CLIENT SAMPLE I : 26030-MW003-0600-QA

MATRIX SPIKE DUPLICATE
MSD SAMPLE ID : 6124.001MSD
CLIENT SAMPLE I : 26030-MW003-0600-QA

COMPOUND	METHOD REFERENCE	UNITS	MS SPIKE ADDED	MSD SPIKE ADDED	SAMPL CONC.	MS CONC.	MSD CONC.	MS RECOVER (%)	MSD RECOVER (%)	RPD	RPD LIMI	QC LIMIT REC
Barium, Dissolved	SW846-6010B	MG/L	2.00	2.00	0	1.71	1.70	86	85	1.2	25	75 - 125
Boron, Dissolved	SW846-6010B	MG/L	2.50	2.50	0.773	2.80	2.86	81	83	2.4	25	75 - 125
Iron, Dissolved	SW846-6010B	MG/L	1.00	1.00	0	0.889	0.879	89	88	1.1	25	75 - 125
Lithium, Dissolved	SW846-6010B	MG/L	0.50	0.50	0	0.54	0.53	108	106	1.9	25	75 - 125
Manganese, Dissolve	SW846-6010B	MG/L	0.500	0.500	0.07	0.551	0.539	96	94	2.1	25	75 - 125
Strontium, Dissolve	SW846-6010B	MG/L	0.50	0.50	12	13	13	200	200	0.0	25	75 - 125

* Indicate values outside of QC limits

RPD : 0 out of 6 outside limits

Spike Recovery : 2 out of 12 outside limits

1680 Lake Front Circle, Suite B, The Woodlands, TX 77380
PDP Analytical Services

LABORATORY REPORT

DISSOLVED METALS

CLIENT NAME :	MEVATEC	CLIENT SAMPLE ID :	26030-MW003-0600-QAA
PROJECT NAME :	HELSTF TSA POOL	LAB SAMPLE ID :	6124.001A1
PROJECT NUMBER :	70B9	DATE RECEIVED :	6/2/00
DATE SAMPLED :	6/1/00	PRINTED ON :	6/16/2000 9:35
SAMPLE MATRIX :	WATER	% MOISTURE :	

ANALYTE	METHOD	DATE PREPARED	DATE ANALYZED	DILU-TION	QUANTITATION LIMIT	RESULT	Q	ANA-LYST
Barium, Dissolved	SW846-6010B	6/14/00	6/14/00	1	0.05 MG/L	1.74 MG/L		AR
Boron, Dissolved	SW846-6010B	6/14/00	6/14/00	1	0.5 MG/L	3.51 MG/L		AR
Calcium, Dissolved	SW846-6010B	6/14/00	6/14/00	1	0.1 MG/L	410 MG/L		AR
Iron, Dissolved	SW846-6010B	6/14/00	6/14/00	1	0.2 MG/L	0.90 MG/L		AR
Lithium, Dissolved	SW846-6010B	6/14/00	6/14/00	1	0.1 MG/L	0.64 MG/L		AR
Magnesium, Dissolv	SW846-6010B	6/14/00	6/14/00	1	0.1 MG/L	280 MG/L		AR
Manganese, Dissolv	SW846-6010B	6/14/00	6/14/00	1	0.05 MG/L	0.54 MG/L		AR
Potassium, Dissolv	SW846-6010B	6/14/00	6/14/00	1	0.7 MG/L	42 MG/L		AR
Sodium, Dissolved	SW846-6010B	6/14/00	6/14/00	1	1 MG/L	3000 MG/L		AR
Strontium, Dissolv	SW846-6010B	6/14/00	6/14/00	1	0.1 MG/L	13 MG/L		AR

QUALITY ASSURANCE/QUALITY CONTROL

QC BATCH IDs

ANALYTE	QC BATCH ID	ANALYTE	QC BATCH ID	ANALYTE	QC BATCH ID
Barium, Dissolved	ICPB1712	Boron, Dissolved	ICPB1712	Calcium, Dissolved	ICPB1712
Iron, Dissolved	ICPB1712	Lithium, Dissolved	ICPB1712	Magnesium, Dissolved	ICPB1712
Manganese, Dissolved	ICPB1712	Potassium, Dissolved	ICPB1712	Sodium, Dissolved	ICPB1712
Strontium, Dissolved	ICPB1712				

PDP Analytical Services
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POST DIGEST SPIKE RECOVERY SUMMARY REPORT

DISSOLVED METALS

CLIENT NAME : MEVATEC
PROJECT NAME : HELSTF TSA POOL
PROJECT NUMBER : 70B9

DATE RECEIVED : 6/2/00
PRINTED ON : 6/16/2000 9:35

SAMPLE MATRIX : WATER

SAMPLE
SAMPLE ID : 6124.001
CLIENT SAMPLE ID : 26030-MW003-0600-QA

POST DIGEST SPIKE SAMPLE
POST DIGEST SAMPLE ID : 6124.001A1
CLIENT SAMPLE ID : 26030-MW003-0600-QA

COMPOUND	METHOD REFERENCE	UNITS	SPIKE ADDED	SAMPLE CONC.	SPIKED SAMPLE CONC.	PERCENT RECOVERY (%)	QC LIMIT (%)
Barium, Dissolved	SW846-6010B	MG/L	2.00	0	1.74	87	75 - 125
Boron, Dissolved	SW846-6010B	MG/L	2.50	0.773	3.51	109	75 - 125
Iron, Dissolved	SW846-6010B	MG/L	1.00	0	0.897	90	75 - 125
Lithium, Dissolved	SW846-6010B	MG/L	0.50	0	0.64	128	75 - 125
Manganese, Dissolved	SW846-6010B	MG/L	0.500	0.07	0.542	94	75 - 125
Strontium, Dissolved	SW846-6010B	MG/L	0.50	12	13	200	75 - 125

* Indicate values outside of QC limits

Spike Recovery : 2 out of 6 outside limits

1680 Lake Front Circle, Suite B, The Woodlands, TX 77380
PDP Analytical Services

LABORATORY REPORT

DISSOLVED METALS

CLIENT NAME :	MEVATEC	CLIENT SAMPLE ID :	26030-MW003-0600-QAL
PROJECT NAME :	HELSTF TSA POOL	LAB SAMPLE ID :	6124.001L1
PROJECT NUMBER :	70B9	DATE RECEIVED :	6/2/00
DATE SAMPLED :	6/1/00	PRINTED ON :	6/16/2000 9:37
SAMPLE MATRIX :	WATER	% MOISTURE :	

ANALYTE	METHOD	DATE PREPARED	DATE ANALYZED	DILU-TION	QUANTITATION LIMIT	RESULT	Q	ANA-LYST
Barium, Dissolved	SW846-6010B	6/14/00	6/14/00	5	0.25 MG/L	ND MG/L		AR
Boron, Dissolved	SW846-6010B	6/14/00	6/14/00	5	2.5 MG/L	ND MG/L		AR
Calcium, Dissolved	SW846-6010B	6/14/00	6/14/00	5	0.5 MG/L	440 MG/L		AR
Iron, Dissolved	SW846-6010B	6/14/00	6/14/00	5	1 MG/L	ND MG/L		AR
Lithium, Dissolved	SW846-6010B	6/14/00	6/14/00	5	0.5 MG/L	ND MG/L		AR
Magnesium, Dissolv	SW846-6010B	6/14/00	6/14/00	5	0.5 MG/L	290 MG/L		AR
Manganese, Dissolv	SW846-6010B	6/14/00	6/14/00	5	0.25 MG/L	ND MG/L		AR
Potassium, Dissolv	SW846-6010B	6/14/00	6/14/00	5	3.5 MG/L	24 MG/L		AR
Sodium, Dissolved	SW846-6010B	6/14/00	6/14/00	5	5 MG/L	2300 MG/L		AR
Strontium, Dissolv	SW846-6010B	6/14/00	6/14/00	5	0.5 MG/L	9.8 MG/L		AR

QUALITY ASSURANCE/QUALITY CONTROL

QC BATCH IDs

ANALYTE	QC BATCH ID	ANALYTE	QC BATCH ID	ANALYTE	QC BATCH ID
Barium, Dissolved	ICPB1712	Boron, Dissolved	ICPB1712	Calcium, Dissolved	ICPB1712
Iron, Dissolved	ICPB1712	Lithium, Dissolved	ICPB1712	Magnesium, Dissolved	ICPB1712
Manganese, Dissolved	ICPB1712	Potassium, Dissolved	ICPB1712	Sodium, Dissolved	ICPB1712
Strontium, Dissolved	ICPB1712				

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SERIAL DILUTION SUMMARY REPORT

DISSOLVED METALS

CLIENT NAME : MEVATEC
PROJECT NAME : HELSTF TSA POOL
PROJECT NUMBER : 70B9

DATE RECEIVED : 6/2/00
PRINTED ON : 6/16/2000 9:37

SAMPLE MATRIX : WATER

SAMPLE
SAMPLE ID : 6124.001
CLIENT SAMPLE ID : 26030-MW003-0600-QA

SERIAL DILUTION SAMPLE
SD SAMPLE ID : 6124.001L1
CLIENT SAMPLE ID : 26030-MW003-0600-QA

COMPOUND	METHOD REFERENCE	UNITS	INITIAL SAMPLE CONC.	SERIAL DILUTION CONC.	PERCENT DIFFERENCE (%)	QC LIMIT (%)
Barium, Dissolved	SW846-6010B	MG/L	0	0	0.0	10
Boron, Dissolved	SW846-6010B	MG/L	0.773	0	100.0	10
Calcium, Dissolved	SW846-6010B	MG/L	410	440	7.3	10
Iron, Dissolved	SW846-6010B	MG/L	0	0	0.0	10
Lithium, Dissolved	SW846-6010B	MG/L	0	0	0.0	10
Magnesium, Dissolved	SW846-6010B	MG/L	280	290	3.6	10
Manganese, Dissolved	SW846-6010B	MG/L	0.07	0	100.0	10
Potassium, Dissolved	SW846-6010B	MG/L	36	24	33.3	10
Sodium, Dissolved	SW846-6010B	MG/L	2400	2300	4.2	10
Strontium, Dissolved	SW846-6010B	MG/L	12	9.8	18.3	10

* Indicate values outside of QC limits

Percent Difference : 4 out of 10 outside limits

NITRATE/NITRITE

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LCS/LCSD SUMMARY REPORT

NITRATE BY ION CHROMATOGRAPHY

CLIENT NAME :
PROJECT NAME :
PROJECT NUMBER :

DATE RECEIVED :
PRINTED ON :7/11/2000 11:08

SAMPLE MATRIX :LIQUID

METHOD REFERENCE :EPA-300

LAB CONTROL SAMPLE

LCS SAMPLE ID :ICLCS23
CLIENT SAMPLE ID :
DATE ANALYZED :06/27/00
INSTRUMENT FILE :0627A0C1.D10

LAB CONTROL SAMPLE DUPLICATE

LCSD SAMPLE ID :
CLIENT SAMPLE ID :
DATE ANALYZED :
INSTRUMENT FILE :

PARAMETER	UNIT	LCS TRUE VALUE	LCSD TRUE VALUE	LCS FOUND VALUE	LCSD FOUN VALUE	LCS RECOVER (%)	LCSD RECOVERY (%)	RPD	RPD LIMIT	QC LIMIT REC.
Nitrate (as N)	MG/L	2.0		1.7		85			20	80 - 120

* Indicate values outside of QC limits

RPD : 0 out of 0 outside limits
Spike Recovery : 0 out of 1 outside limits

pH

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DUPLICATE SUMMARY REPORT

pH

CLIENT NAME	: MEVATEC	DATE RECEIVED	: 6/2/00
PROJECT NAME	: HELSTF TSA POOL	PRINTED ON	: 6/7/2000
PROJECT NUMBER	: 70B9		
SAMPLE MATRIX	: WATER	METHOD REFERENCE	: EPA-150.1
SAMPLE		SAMPLE DUPLICATE	
SAMPLE ID	:	DUP SAMPLE ID	: 6124.001DUP1
CLIENT SAMPLE ID	: 26030-MW003-0600-QA	CLIENT SAMPLE ID	: 26030-MW003-0600-QA
DATE ANALYZED	: 06/07/00	DATE ANALYZED	: 06/07/00
GC FILE ID	:	INSTRUMENT FILE	:

COMPOUND	SAMPLE CONC.	DUP. CONC.	UNITS	RPD	RPD LIMITS
pH	7.68	7.69	UNITS	0.1	20

* Indicate values outside of QC limits

RPD : 0 out of 1 outside limits

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LCS/LCSD SUMMARY REPORT

pH

CLIENT NAME :
PROJECT NAME :
PROJECT NUMBER :

DATE RECEIVED :
PRINTED ON : 6/7/2000 16:21

SAMPLE MATRIX : LIQUID
METHOD REFERENCE : EPA-150.1

LAB CONTROL SAMPLE
LCS SAMPLE ID : PHLCS071
CLIENT SAMPLE ID :
DATE ANALYZED : 06/07/00
INSTRUMENT FILE :

LAB CONTROL SAMPLE DUPLICATE
LCSD SAMPLE ID : PHLCS071D
CLIENT SAMPLE ID :
DATE ANALYZED : 06/07/00
INSTRUMENT FILE :

PARAMETER	UNIT	LCS TRUE VALUE	LCSD TRUE VALUE	LCS FOUND VALUE	LCSD FOUN VALUE	LCS RECOVER (%)	LCSD RECOVERY (%)	RPD	RPD LIMIT	QC LIMIT REC.
pH	UNITS	9.00	9.00	8.84	8.83	98	98	0.0	0	98 - 102

* Indicate values outside of QC limits

RPD : 0 out of 1 outside limits
Spike Recovery : 0 out of 2 outside limits

METALS DISSOLVED - Uranium

ENVIRO-TEST QC REPORT

Workorder #: L1550

QC Type: BLANK

Lab QC Number:		Result	Qualifier	Units	Limit	Analyzed
VG6499-1						
AG-REC-CA	Silver (Ag)	0.00097		mg/L	0.00006	16-JUN-00
AG-TOT-CA	Silver (Ag)	0.00097		mg/L	0.00006	16-JUN-00
AG-TOT-LOW-CA	Silver (Ag)	0.00097		mg/L	0.00006	16-JUN-00
AS-TOT-CA	Arsenic (As)	<0.00004		mg/L	0.00004	16-JUN-00
AS-TOT-LOW-CA	Arsenic (As)	<0.00004		mg/L	0.00004	16-JUN-00
BA-TOT-CA	Barium (Ba)	0.00085		mg/L	0.00003	16-JUN-00
CD-TOT-CA	Cadmium (Cd)	0.00008		mg/L	0.00004	16-JUN-00
CR-TOT-CA	Chromium (Cr)	0.0001		mg/L	0.0001	16-JUN-00
CR-TOT-REC-CA	Chromium (Cr)	0.00014		mg/L	0.0001	16-JUN-00
CU-TOT-CA	Copper (Cu)	0.00037		mg/L	0.00009	16-JUN-00
NI-TOT-CA	Nickel (Ni)	0.00048		mg/L	0.00007	16-JUN-00
PB-TOT-CA	Lead (Pb)	0.00919		mg/L	0.00004	16-JUN-00
SE-TOT-CA	Selenium (Se)	<0.0001		mg/L	0.0001	16-JUN-00
U-TOT-LOW-CA	Uranium (U)	<0.00002		mg/L	0.00002	16-JUN-00
ZN-TOT-CA	Zinc (Zn)	0.0181		mg/L	0.0003	16-JUN-00
WG6501-1						
AG-EXT-CA	Silver (Ag)	0.001		mg/L	0.001	16-JUN-00
AL-TOT-CA	Aluminum (Al)	0.0068		mg/L	0.0001	16-JUN-00
AS-EXT-CA	Arsenic (As)	<0.0006		mg/L	0.0006	16-JUN-00
BA-EXT-CA	Barium (Ba)	<0.0006		mg/L	0.0006	16-JUN-00
CD-EXT-CA	Cadmium (Cd)	<0.0007		mg/L	0.0007	16-JUN-00
CR-EXT-CA	Chromium (Cr)	<0.002		mg/L	0.002	16-JUN-00
CU-EXT-CA	Copper (Cu)	<0.001		mg/L	0.001	16-JUN-00
ETL-ROU-METAL-CA	Calcium (Ca)	0.04		mg/L	0.01	16-JUN-00
	Potassium (K)	<0.007		mg/L	0.007	16-JUN-00
	Magnesium (Mg)	<0.002		mg/L	0.002	16-JUN-00
	Sodium (Na)	0		mg/L	0	16-JUN-00
FE-TOT-CA	Iron (Fe)	<0.005		mg/L	0.005	16-JUN-00
HG-EXT-HYD-CA	Mercury, (Hg)-Extractable	<0.0006		mg/L	0.0006	16-JUN-00
MN-DIS-CA	Manganese (Mn)	0.00005		mg/L	0.00004	16-JUN-00
NI-EXT-CA	Nickel (Ni)	<0.001		mg/L	0.001	16-JUN-00
PB-EXT-CA	Lead (Pb)	<0.0004		mg/L	0.0004	16-JUN-00
SB-DIS-LOW-CA	Antimony (Sb)	0.00003		mg/L	0.00002	16-JUN-00
SE-EXT-CA	Selenium (Se)	<0.002		mg/L	0.002	16-JUN-00
SI-TOT-CA	Silicon (Si)	0.009		mg/L	0.001	16-JUN-00
TH-TOT-CA	Thorium (Th)	<0.00002		mg/L	0.00002	16-JUN-00
TI-TOT-CA	Titanium (Ti)	0.00011		mg/L	0.00001	16-JUN-00

Limit of Liability: Although care and due diligence is taken in the performance of our services, our liability in all cases is limited to re-analysis at our expense or refunding the analytical costs charged for the work performed.

ENVIRO-TEST QC REPORT

Workorder #: L1550

TL-DIS-LOW-CA	Thallium (Tl)	0.00049	mg/L	0.00002	16-JUN-00
U-TOT-CA	Uranium (U)	<0.00002	mg/L	0.00002	16-JUN-00
V-TOT-CA	Vanadium (V)	<0.00005	mg/L	0.00005	16-JUN-00
ZN-EXT-CA	Zinc (Zn)	<0.003	mg/L	0.003	16-JUN-00
ZR-TOT-CA	Zirconium (Zr)	0.00003	mg/L	0.00002	16-JUN-00

QC Type: DUP

Lab QC Number:		RPD	Qualifier	Limit %	Analyzed
WG6499-3					
U-TOT-LOW-CA	Uranium (U)	200	RPD-NA	1	16-JUN-00
WG6501-3					
AG-EXT-CA	Silver (Ag)	N/A	RPD-NA	1	16-JUN-00
AS-EXT-CA	Arsenic (As)	N/A	RPD-NA	1	16-JUN-00
BA-EXT-CA	Barium (Ba)	N/A	RPD-NA	1	16-JUN-00
CD-EXT-CA	Cadmium (Cd)	N/A	RPD-NA	1	16-JUN-00
CR-EXT-CA	Chromium (Cr)	N/A	RPD-NA	1	16-JUN-00
HG-EXT-HYD-CA	Mercury, (Hg)-Extractable	200		3	16-JUN-00
PB-EXT-CA	Lead (Pb)	N/A	RPD-NA	1	16-JUN-00
SE-EXT-CA	Selenium (Se)	N/A	RPD-NA	1	16-JUN-00
WG6501-5					
ETL-ROU-METAL-CA	Calcium (Ca)	197		1	16-JUN-00
	Potassium (K)	69		1	16-JUN-00
	Magnesium (Mg)	170		1	16-JUN-00
	Sodium (Na)	187		1	16-JUN-00
MN-DIS-CA	Manganese (Mn)	200		1	16-JUN-00

QC Type: LCS

Lab QC Number:		% Recovery	Qualifier	Limit %	Analyzed
WG6499-2					
AG-REC-CA	Silver (Ag)	93		N/A	16-JUN-00
AG-TOT-CA	Silver (Ag)	93		N/A	16-JUN-00
AG-TOT-LOW-CA	Silver (Ag)	93		N/A	16-JUN-00
AS-TOT-CA	Arsenic (As)	99		N/A	16-JUN-00
AS-TOT-LOW-CA	Arsenic (As)	99		N/A	16-JUN-00
BA-TOT-CA	Barium (Ba)	95		N/A	16-JUN-00

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ENVIRO-TEST QC REPORT

Workorder #: L1550

CD-TOT-CA	Cadmium (Cd)	101	N/A	16-JUN-00
CR-TOT-CA	Chromium (Cr)	98	N/A	16-JUN-00
CR-TOT-REC-CA	Chromium (Cr)	98	N/A	16-JUN-00
CU-TOT-CA	Copper (Cu)	103	N/A	16-JUN-00
NI-TOT-CA	Nickel (Ni)	95	N/A	16-JUN-00
PB-TOT-CA	Lead (Pb)	104	N/A	16-JUN-00
SE-TOT-CA	Selenium (Se)	102	N/A	16-JUN-00
U-TOT-LOW-CA	Uranium (U)	103	N/A	16-JUN-00
ZN-TOT-CA	Zinc (Zn)	105	N/A	16-JUN-00
WG6501-2				
AG-EXT-CA	Silver (Ag)	131	N/A	16-JUN-00
AL-TOT-CA	Aluminum (Al)	81.97	N/A	16-JUN-00
AS-EXT-CA	Arsenic (As)	98	N/A	16-JUN-00
BA-EXT-CA	Barium (Ba)	99	N/A	16-JUN-00
CD-EXT-CA	Cadmium (Cd)	98	N/A	16-JUN-00
CR-EXT-CA	Chromium (Cr)	97	N/A	16-JUN-00
CU-EXT-CA	Copper (Cu)	107	N/A	16-JUN-00
ETL-ROU-METAL-CA	Calcium (Ca)	98	N/A	16-JUN-00
	Potassium (K)	99	N/A	16-JUN-00
	Magnesium (Mg)	92	N/A	16-JUN-00
	Sodium (Na)	96	N/A	16-JUN-00
FE-TOT-CA	Iron (Fe)	103.703	N/A	16-JUN-00
HG-EXT-HYD-CA	Mercury, (Hg)-Extractable	103	N/A	16-JUN-00
MN-DIS-CA	Manganese (Mn)	100	N/A	16-JUN-00
NI-EXT-CA	Nickel (Ni)	105	N/A	16-JUN-00
PB-EXT-CA	Lead (Pb)	97	N/A	16-JUN-00
SB-DIS-LOW-CA	Antimony (Sb)	93	N/A	16-JUN-00
SE-EXT-CA	Selenium (Se)	98	N/A	16-JUN-00
SI-TOT-CA	Silicon (Si)	85.915	N/A	16-JUN-00
TH-TOT-CA	Thorium (Th)	99.42	N/A	16-JUN-00
TI-TOT-CA	Titanium (Ti)	96.35	N/A	16-JUN-00
TL-DIS-LOW-CA	Thallium (Tl)	97	N/A	16-JUN-00
U-TOT-CA	Uranium (U)	101.3	N/A	16-JUN-00
V-TOT-CA	Vanadium (V)	N/A	N/A	16-JUN-00
ZN-EXT-CA	Zinc (Zn)	107	N/A	16-JUN-00
ZR-TOT-CA	Zirconium (Zr)	N/A	N/A	16-JUN-00

Limit of Liability: Although care and due diligence is taken in the performance of our services, our liability in all cases is limited to re-analysis at our expense or refunding the analytical costs charged for the work performed.

ENVIRO-TEST QC REPORT

Workorder #: L1550

Type: MS

Lab QC Number:		% Recovery	Qualifier	Limit %	Analyzed
WG6499-4					
U-TOT-LOW-CA	Uranium (U)	128		N/A	16-JUN-00
WG6501-4					
AG-EXT-CA	Silver (Ag)	125		N/A	16-JUN-00
AS-EXT-CA	Arsenic (As)	99		N/A	16-JUN-00
BA-EXT-CA	Barium (Ba)	97		N/A	16-JUN-00
CD-EXT-CA	Cadmium (Cd)	96		N/A	16-JUN-00
CR-EXT-CA	Chromium (Cr)	95		N/A	16-JUN-00
HG-EXT-HYD-CA	Mercury, (Hg)-Extractable	105		N/A	16-JUN-00
PB-EXT-CA	Lead (Pb)	96		N/A	16-JUN-00
SE-EXT-CA	Selenium (Se)	99		N/A	16-JUN-00
WG6501-6					
ETL-ROU-METAL-CA	Calcium (Ca)	56		N/A	16-JUN-00
	Potassium (K)	101		N/A	16-JUN-00
	Magnesium (Mg)	96		N/A	16-JUN-00
	Sodium (Na)	37		N/A	16-JUN-00
MN-DIS-CA	Manganese (Mn)	90		N/A	16-JUN-00

Limit of Liability: Although care and due diligence is taken in the performance of our services, our liability in all cases is limited to re-analysis at our expense or refunding the analytical costs charged for the work performed.

ENVIRO-TEST QC REPORT

Workorder #: L1550

Legend:

QC Type	Description
BLANK	Laboratory Blank
BS	Blank Spike
BSD	Blank Spike Duplicate
CCB	Continuing Calibration Blank
CCV	Cont. Cal. Verification
DUP	Duplicate
ICB	Instrument Blank
ICV	Instument Calibration Verification
INST BLK	Instrument Blank
LCS	Laboratory Control Spike
LCSD	Lab Control Spike Duplicate
MS	Matrix Spike
MSD	Matrix Spike Duplicate
SPCC	System Performance Check Compound
SRM	Standard Reference Material
SSS	Second source std

Qualifier:

RPD-NA Relative Percent Difference Not Available due to result(s) being less than detection limit.
A Method blank exceeds detection limit. Blank correction applied, where appropriate.
B Method blank result exceeds detection limit, however, it is less that 5% of sample concentration. Blank correction not applied.
C Method blank result exceeds detection limit, however, it is less than 5% of the regulatory limit for the analyte of interest. Blank correction not applied.
D Duplicate result exceeds limit due to increased variability for low level samples.
E Matrix spike limit exceeded due to high sample background.
F Silver recovery low, likely due to elevated choride levels in sample.
G Outlier - No assignable cause for nonconformity has been determined.

Limit of Liability: Although care and due diligence is taken in the performance of our services, our liability in all cases is limited to re-analysis at our expense or refunding the analytical costs charged for the work performed.

PHOSPHUROUS

PDP Analytical Services

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LCS/LCSD SUMMARY REPORT

TOTAL PHOSPHORUS

CLIENT NAME :
PROJECT NAME :
PROJECT NUMBER :

DATE RECEIVED :
PRINTED ON : 6/12/2000 14:12

SAMPLE MATRIX : LIQUID

METHOD REFERENCE : 4500-PE

LAB CONTROL SAMPLE

LCS SAMPLE ID : TPLCS019
CLIENT SAMPLE ID :
DATE ANALYZED : 06/08/00
INSTRUMENT FILE :

LAB CONTROL SAMPLE DUPLICATE

LCSD SAMPLE ID : TPLCS019D
CLIENT SAMPLE ID :
DATE ANALYZED : 06/08/00
INSTRUMENT FILE :

PARAMETER	UNIT	LCS TRUE VALUE	LCSD TRUE VALUE	LCS FOUND VALUE	LCSD FOUN VALUE	LCS RECOVER (%)	LCSD RECOVERY (%)	RPD	RPD LIMIT	QC LIMIT REC.
Phosphorus, total (as P)	MG/L	0.250	0.250	0.246	0.242	98	97	1.0	20	80 - 120

* Indicate values outside of QC limits

RPD : 0 out of 1 outside limits
Spike Recovery : 0 out of 2 outside limits

PDP Analytical Services

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MS/MSD SUMMARY REPORT

TOTAL PHOSPHORUS

CLIENT NAME : MEVATEC
PROJECT NAME : HELSTF TSA POOL
PROJECT NUMBER : 70B9

DATE RECEIVED : 6/2/00
PRINTED ON : 6/12/2000 14:12

SAMPLE MATRIX : WATER

METHOD REFERENCE : 4500-PE

SAMPLE	MATRIX SPIKE	MATRIX SPIKE DUPLICATE
SAMPLE ID : 6124.001	MS SAMPLE ID : 6124.001MS	MSD SAMPLE ID : 6124.001MSD
CLIENT SAMPLE ID : 26030-MW003-0600-QA	CLIENT SAMPLE ID . 26030-MW003-0600-QA	CLIENT SAMPLE ID : 26030-MW003-0600-QA
DATE ANALYZED : 06/08/00	DATE ANALYZED : 06/08/00	DATE ANALYZED : 06/08/00
GC FILE ID :	INSTRUMENT FILE :	INSTRUMENT FILE :

PARAMETER	UNITS	MS SPIKE ADDED	MSD SPIKE ADDED	SAMPL CONC.	MS CONC.	MSD CONC.	MS RECOVERY (%)	MSD RECOVERY (%)	RPD	RPD LIMIT	QC LIMIT REC.
Phosphorus, total (as P)	MG/L	0.250	0.250	0.128	0.356	0.356	91	91	0.0	20	75 - 125

* Indicate values outside of QC limits

RPD : 0 out of 1 outside limits
Spike Recovery : 0 out of 2 outside limits

SULFATE

PDP Analytical Services

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LCS/LCSD SUMMARY REPORT

SULFATE BY ION CHROMATOGRAPHY

CLIENT NAME :
PROJECT NAME :
PROJECT NUMBER :

DATE RECEIVED :
PRINTED ON : 7/6/2000 16:33

SAMPLE MATRIX : LIQUID
METHOD REFERENCE : EPA-300

LAB CONTROL SAMPLE
LCS SAMPLE ID : ICLCS23
CLIENT SAMPLE ID :
DATE ANALYZED : 06/27/00
INSTRUMENT FILE : 0627A0C1.D10

LAB CONTROL SAMPLE DUPLICATE
LCSD SAMPLE ID :
CLIENT SAMPLE ID :
DATE ANALYZED :
INSTRUMENT FILE :

PARAMETER	UNIT	LCS TRUE VALUE	LCSD TRUE VALUE	LCS FOUND VALUE	LCSD FOUN VALUE	LCS RECOVER (%)	LCSD RECOVERY (%)	RPD	RPD LIMIT	QC LIMIT REC.
Sulfate (as SO4)	MG/L	4.00		3.54		89			20	80 - 120

* Indicate values outside of QC limits

RPD : 0 out of 0 outside limits
Spike Recovery : 0 out of 1 outside limits

TOTAL DISSOLVED SOLIDS (TDS)

PDP Analytical Services

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DUPLICATE SUMMARY REPORT

TOTAL DISSOLVED SOLIDS (TDS)

CLIENT NAME	: MEVATEC	DATE RECEIVED	: 6/2/00
PROJECT NAME	: HELSTF TSA POOL	PRINTED ON	: 6/12/2000
PROJECT NUMBER	: 70B9		
SAMPLE MATRIX	: WATER	METHOD REFERENCE	: EPA-160.1
SAMPLE		SAMPLE DUPLICATE	
SAMPLE ID	:	DUP SAMPLE ID	: 6124.001DUP1
CLIENT SAMPLE ID	: 26030-MW003-0600-QA	CLIENT SAMPLE ID	: 26030-MW003-0600-QA
DATE ANALYZED	: 06/08/00	DATE ANALYZED	: 06/08/00
GC FILE ID	:	INSTRUMENT FILE	:

COMPOUND	SAMPLE CONC.	DUP. CONC.	UNITS	RPD	RPD LIMITS
Total Dissolved Solids	8550	8930	MG/L	4.3	20

* Indicate values outside of QC limits

RPD : 0 out of 1 outside limits

PDP Analytical Services

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LCS/LCSD SUMMARY REPORT

TOTAL DISSOLVED SOLIDS (TDS)

CLIENT NAME :
PROJECT NAME :
PROJECT NUMBER :

DATE RECEIVED :
PRINTED ON : 6/12/2000 12:29

SAMPLE MATRIX : LIQUID

METHOD REFERENCE : EPA-160.1

LAB CONTROL SAMPLE

LCS SAMPLE ID : TDSLCS032
CLIENT SAMPLE ID :
DATE ANALYZED : 06/08/00
INSTRUMENT FILE :

LAB CONTROL SAMPLE DUPLICATE

LCSD SAMPLE ID : TDSLCS032D
CLIENT SAMPLE ID :
DATE ANALYZED : 06/08/00
INSTRUMENT FILE :

PARAMETER	UNIT	LCS TRUE VALUE	LCSD TRUE VALUE	LCS FOUND VALUE	LCSD FOUN VALUE	LCS RECOVER (%)	LCSD RECOVERY (%)	RPD	RPD LIMIT	QC LIMIT REC.
Total Dissolved Solids	MG/L	500	500	510	490	102	98	4.0	20	80 - 120

* Indicate values outside of QC limits

RPD : 0 out of 1 outside limits
Spike Recovery : 0 out of 2 outside limits

TPH8015A-Purgeables

PDP Analytical Services

1680 Lake Front Circle, Suite B, The Woodlands, TX 77380

LABORATORY REPORT

TPH PURGEABLES BY GC/FID

CLIENT NAME :		CLIENT SAMPLE ID :	Prep Blank
PROJECT NAME :		LAB SAMPLE ID :	GBLK31
PROJECT NUMBER :		METHOD REFERENCE :	SW846-8015A
DATE SAMPLED :		DATE RECEIVED :	
SAMPLE MATRIX :	LIQUID	PRINTED ON :	6/12/2000 14:54

ANALYST	: DR	DATE ANALYZED	: 06/09/00
DILUTION	: 1	INSTRUMENT FILE	: B01241.D
INSTRUMENT ID	: B-HP5890	PURGE VOLUME	: 40 mL
TIME ANALYZED	: 15:09		

PARAMETER	QUANTITATION LIMIT	RESULTS	QUALIFIER
Total Petroleum Hydrocarbons - Gasoline Range	31 UG/L	ND UG/L	

QUALITY CONTROL DATA

SURROGATE COMPOUND	SPIKE ADDED	QC RECOVERY LIMITS	%RECOVERY
a,a,a-Trifluorotoluene	6.2 UG/L	75 - 125	77

BATCH QUALITY CONTROL SAMPLE IDs

QC BATCH ID : G31 PREP BLANK ID : GBLK31

PDP Analytical Services

1680 Lake Front Circle, Suite B, The Woodlands, TX 77380

LABORATORY REPORT

TPH PURGEABLES BY GC/FID

CLIENT NAME	:	CLIENT SAMPLE ID	: Lab Control Sample
PROJECT NAME	:	LAB SAMPLE ID	: GLCS29
PROJECT NUMBER	:	METHOD REFERENCE	: SW846-8015A
DATE SAMPLED	:	DATE RECEIVED	:
SAMPLE MATRIX	: LIQUID	PRINTED ON	: 6/12/2000 14:54

ANALYST	: DR	DATE ANALYZED	: 06/09/00
DILUTION	: 1	INSTRUMENT FILE	: B01242.D
INSTRUMENT ID	: B-HP5890	PURGE VOLUME	: 40 mL
TIME ANALYZED	: 15:42		

PARAMETER	QUANTITATION LIMIT	RESULTS	QUALIFIER
Total Petroleum Hydrocarbons - Gasoline Range	31 UG/L	89.2 UG/L	

QUALITY CONTROL DATA

SURROGATE COMPOUND	SPIKE ADDED	QC RECOVERY LIMITS	%RECOVERY
a,a,a-Trifluorotoluene	6.2 UG/L	75 - 125	93

BATCH QUALITY CONTROL SAMPLE IDs

QC BATCH ID : G31 PREP BLANK ID : GBLK31

PDP Analytical Services

1680 Lake Front Circle, Suite B, The Woodlands, TX 77380

LCS/LCSD SUMMARY REPORT

TPH PURGEABLES BY GC/FID

CLIENT NAME :
PROJECT NAME :
PROJECT NUMBER :

DATE RECEIVED :
PRINTED ON : 6/12/2000 14:54

SAMPLE MATRIX : LIQUID

METHOD REFERENCE : SW846-8015A

LAB CONTROL SAMPLE

LCS SAMPLE ID : GLCS29
CLIENT SAMPLE ID :
DATE ANALYZED : 06/09/00
INSTRUMENT FILE : B01242.D

LAB CONTROL SAMPLE DUPLICATE

LCSD SAMPLE ID :
CLIENT SAMPLE ID :
DATE ANALYZED :
INSTRUMENT FILE :

PARAMETER	UNIT	LCS TRUE VALUE	LCSD TRUE VALUE	LCS FOUND VALUE	LCSD FOUN VALUE	LCS RECOVER (%)	LCSD RECOVERY (%)	RPD	RPD LIMIT	QC LIMIT REC.
Total Petroleum Hydrocarbons - G	UG/L	93.7		89.2		95			25	75 - 125

* Indicate values outside of QC limits

RPD : 0 out of 0 outside limits
Spike Recovery : 0 out of 1 outside limits

PDP Analytical Services

1680 Lake Front Circle, Suite B, The Woodlands, TX 77380

LABORATORY REPORT

TPH PURGEABLES BY GC/FID

CLIENT NAME :	MEVATEC	CLIENT SAMPLE ID :	26030-MW003-0600-QAMS1
PROJECT NAME :	HELSTF TSA POOL	LAB SAMPLE ID :	6124.001MS
PROJECT NUMBER :	70B9	METHOD REFERENCE :	SW846-8015A
DATE SAMPLED :	6/1/00	DATE RECEIVED :	6/2/00
SAMPLE MATRIX :	WATER	PRINTED ON :	6/12/2000 14:54

ANALYST	: DR	DATE ANALYZED	: 06/09/00
DILUTION	: 1	INSTRUMENT FILE	: B01244.D
INSTRUMENT ID	: B-HP5890	PURGE VOLUME	: 40 mL
TIME ANALYZED	: 16:42		

PARAMETER	QUANTITATION LIMIT	RESULTS	QUALIFIER
Total Petroleum Hydrocarbons - Gasoline Range	31 UG/L	88 UG/L	

QUALITY CONTROL DATA

SURROGATE COMPOUND	SPIKE ADDED	QC RECOVERY LIMITS	%RECOVERY
a,a,a-Trifluorotoluene	6.2 UG/L	75 - 125	90

BATCH QUALITY CONTROL SAMPLE IDs

QC BATCH ID : G31	PREP BLANK ID : GBLK31	LCS ID : GLCS29

PDP Analytical Services

1680 Lake Front Circle, Suite B, The Woodlands, TX 77380

LABORATORY REPORT

TPH PURGEABLES BY GC/FID

CLIENT NAME :	MEVATEC	CLIENT SAMPLE ID :	26030-MW003-0600-QAMSD1
PROJECT NAME :	HELSTF TSA POOL	LAB SAMPLE ID :	6124.001MSD
PROJECT NUMBER :	70B9	METHOD REFERENCE :	SW846-8015A
DATE SAMPLED :	6/1/00	DATE RECEIVED :	6/2/00
SAMPLE MATRIX :	WATER	PRINTED ON :	6/12/2000 14:54

ANALYST	: DR	DATE ANALYZED	: 06/09/00
DILUTION	: 1	INSTRUMENT FILE	: B01245.D
INSTRUMENT ID	: B-HP5890	PURGE VOLUME	: 40 mL
TIME ANALYZED	: 17:10		

PARAMETER	QUANTITATION LIMIT	RESULTS	QUALIFIER
Total Petroleum Hydrocarbons - Gasoline Range	31 UG/L	90 UG/L	

QUALITY CONTROL DATA

SURROGATE COMPOUND	SPIKE ADDED	QC RECOVERY LIMITS	%RECOVERY
a,a,a-Trifluorotoluene	6.2 UG/L	75 - 125	93

BATCH QUALITY CONTROL SAMPLE IDs

QC BATCH ID : G31 PREP BLANK ID : GBLK31 LCS ID : GLCS29

MS ID : 6124.001MS

PDP Analytical Services

1680 Lake Front Circle, Suite B, The Woodlands, TX 77380

MS/MSD SUMMARY REPORT

TPH PURGEABLES BY GC/FID

CLIENT NAME : MEVATEC
PROJECT NAME : HELSTF TSA POOL
PROJECT NUMBER : 70B9

DATE RECEIVED : 6/2/00
PRINTED ON : 6/12/2000 14:54

SAMPLE MATRIX : WATER

METHOD REFERENCE : SW846-8015A

SAMPLE	MATRIX SPIKE	MATRIX SPIKE DUPLICATE
SAMPLE ID : 6124.001	MS SAMPLE ID : 6124.001MS	MSD SAMPLE ID : 6124.001MSD
CLIENT SAMPLE ID : 26030-MW003-0600-QA	CLIENT SAMPLE ID : 26030-MW003-0600-QA	CLIENT SAMPLE ID : 26030-MW003-0600-QA
DATE ANALYZED : 06/09/00	DATE ANALYZED : 06/09/00	DATE ANALYZED : 06/09/00
INSTRUMENT FILE : B01243.D	INSTRUMENT FILE : B01244.D	INSTRUMENT FILE : B01245.D

PARAMETER	UNITS	MS SPIKE ADDED	MSD SPIKE ADDED	SAMPL CONC.	MS CONC.	MSD CONC.	MS RECOVERY (%)	MSD RECOVERY (%)	RPD	RPD LIMIT	QC LIMIT REC.
Total Petroleum Hydrocarbons - Ga	UG/L	93.7	93.7	1.2	88.1	89.6	93	94	1.1	25	75 - 125

* Indicate values outside of QC limits

RPD : 0 out of 1 outside limits
Spike Recovery : 0 out of 2 outside limits

END OF REPORT

APPENDIX K

SOIL VAPOR EXTRACTION PILOT STUDY REPORT

AcuVac Remediation Inc.

11020 Old Katy Road, Suite 111 • Houston, Texas 77043 • (713) 468-6688 • fax (713) 468-6689

July 17, 2000

Mr. Chris Whitman
Environmental Scientist
MEVATEC
Building 126, 3rd Floor
White Sands Missile Range, NM 88002

Re: Pilot Test: White Sands Missile Range, NM
Project: # HELSTF - Purchase Order #00P-2043

Dear Chris:

Enclosed is the report on Soil Vapor Extraction (SVE) Pilot Testing performed on July 12, 2000, at the above referenced location. The test was conducted using AcuVac's SVE I-6 System, with Roots RAI-33 blower, various instrumentation, including the HORIBA Analyzer, Micro-Max O_2 Analyzer, MMC and Solinst Interface Probes, magnehelic gauges, flow gauges, a sensitive instrument to determine barometric pressure and other special equipment. The report is divided into two separate tests and three SVE Quick Tests (QT). An Engineer and Geologist with over 10,000 hours of on-site testing conducted the Pilot Tests.

Introduction:

The vacuum extraction portion of the AcuVac SVE System consists of a vacuum pump driven by an internal combustion (IC) engine. The vacuum pump is connected to the extraction well and the vacuum created on the extraction well causes hydrocarbons in the soil to volatilize and flow through a moisture knockout tank to the vacuum pump and the internal combustion engine where they are burned as part of the normal combustion process. Propane is used as an auxiliary fuel to help power the engine if the well vapors do not provide the required BTU.

Emissions from the engine are passed through three catalytic converters to ensure maximum destruction of removed hydrocarbon vapors. The engine's fuel to air ratio can be adjusted to maintain efficient combustion. Because the engine is the power source for all equipment, all systems stop when the engine stops. This eliminates any uncontrolled release of hydrocarbons. Since the System is held entirely under

vacuum, any leaks in the seals or connections are leaked into the System and not emitted into the atmosphere. The engine is automatically shut down by vacuum loss, low oil pressure or overheating.

Project Scope:

- Connect the AcuVac SVE System to vapor extraction well (VEW) VW-01, record the static well data, DTGW/DTPSH, well size, TD and screen intervals and then apply vacuum. Record the vacuum and well flow, all System data (including fuel flow of propane), temperature and barometric pressure.
- The test procedure is to provide variable rates of vacuum and flow over the test period and record the data at a selected interval of time.
- Install and observe the magnehelic gauges on the outer observation wells to determine if the selected extraction well is in vacuum communication with the outer observation wells. Record the data at a selected interval of time.
- Take influent vapor samples to provide on-site HORIBA Analyzer analytical data for laboratory analysis.
- Conduct SVE Quick Tests on each of the selected monitoring wells recording well vacuum and flow, and providing HORIBA Data (TPH, CO_2 and O_2).
- Record the distances from the VEW well to the outer wells.
- Operate the SVE System in such a manner that all well vapors are passed through the engine and catalytic converters to destruct the contaminants, and exhausted to meet air emission standards.
- Comply with all safety and security regulations.
- Complete the tests by providing a report consisting of operating and analytical data, and projection of vacuum radius of influence.

Fuel Use Information:

The fuel required for the I-6 engine, at an average of 2,400 rpm and at the h.p. requirement of average test conditions, is 4.18 gals/hr of propane. The measured (by volume) amount of propane used during the total SVE-1 & 4 test time of 7.8 hours (not including static data time, SVE-2 Quick Test time or Test #SVE-3), was zero gallons, or zero gals/hr. Therefore, the influent well vapors provided fuel equivalent to 4.18 gals/hr of propane or 100%. This is equivalent to approximately 19.4 lb/hr of hydrocarbon contaminant. High CO_2 and/or low O_2 levels may limit the burn rate due to increased dilution air that is required to maintain a proper air to fuel ratio in the IC engine or maintain the required LEL in Thermal or Catalytic Oxidizers.

Summary of Data - 2 Tests (See Attached Schedule A)

Graphic Summary of Data - SVE (See Attached Summary)

Well Data Information:

TABLE #1

WELL NO	VW-01	MW-06	MW-05	MW-04
TD	20.67	36	36	36
SCREEN/ft	15 - 20	31 - 36	31 - 36	31 - 36
WELL SIZE/in	4.0	4.0	4.0	4.0
DTGW/ ft 0625 HRS - Static	20.66	-	33.83	-
DTPSH/ft 0625 HRS - Static	20.65	-	-	-
PSH/ ft Static	**+0.01**	-	-	-
DTGW/ ft 1230 HRS	20.66	-	33.85	-
DTPSH/ft 1230 HRS	16.85	-	-	-
PSH/ ft (IV = 90"H_2O max)	**+3.81**	-	-	-
DTGW/ ft 1525 HRS	20.66	-	30.85	-
DTPSH/ft 1525 HRS	20.64	-	-	-
PSH/ ft Static	**+0.02**	-	-	-
DTGW/ ft 1730 HRS	20.66	-	-	-
DTPSH/ft 1730 HRS	18.60	-	-	-
PSH/ ft (IV = 50"H_2O max)	**+2.04**	-	-	-
MAXIMUM CHANGE	+3.81	-	0.02	-
DISTANCE FROM VM-01 ft	0	23.9	25.0	25.0

IV = Induced Vacuum.

Discussion of Data:

Prior to starting this test, all the SVE systems are checked for normal operation. The depth to groundwater (DTGW) and depth to phase separated hydrocarbons (DTPSH) levels are recorded. Each magnehelic gauge is checked and calibrated to zero. The outer monitoring wells are plugged with expandable well plugs designed to accept magnehelic gauges. Static well data is recorded prior to engaging the SVE System. The propane tank fuel level is recorded so that accurate fuel consumption can

be estimated for the total test period. The HORIBA Analyzer is set for the local altitude and calibrated with SPAN gas. All safety checks are performed on the System.

Test #SVE-1 was a 6.0 hour SVE test conducted from well VW-01 as the Vapor Extraction Well (VEW). Static well data indicated that the selected outer monitoring wells were recording slight vacuums ranging from 0.01 to 0.07"H_2O. The barometric pressure was steady at 30.20"Hg and the ambient air temperature was 72.3°F. At the start of the test, the initial VEW induced vacuum was 60"H_2O, with an initial flow of 6.0 scfm. All the outer wells immediately recorded increased vacuum levels. During the first hour of the test, the vacuum remained constant at 60"H_2O, with the flow increasing from 6.0 to 8.0 scfm. The outer wells continued to record an increasing vacuum trend, with MW-04 developing an exceptional radial vacuum.

After 1.0 hour of steady induced vacuum, the VEW vacuum was increased to 80"H_2O, with a flow of 14 scfm. The outer monitoring wells recorded an increasing vacuum trend in response to the increased induced vacuum. The barometric pressure was 30.20"Hg and continued on an increasing trend to 30.26"Hg, and the ambient air temperature increased from 80.5 to 88.6°F. The influent vapor temperature remained nearly constant at 63°F. The test period was 3.0 hours, with the VEW vacuum remaining steady and the well flow increasing to 15 scfm.

The purpose of a variable rate flow test is to define the pressure/flow characteristics of sub-surface soils around the VEW and to estimate potential conditions for operational SVE Systems. Starting a test with lower variable rate vacuum and flow increases, allows the VEW and outer wells sufficient time to adjust and stabilize, and minimizes the risk of developing preferential paths. This will also assist the development of newly installed vapor extraction wells.

HORIBA analytical data, recorded on-site, indicated the influent vapors taken from VEW had hydrocarbon concentrations (HC) of 80,410, 100,000+ and 100,000+ ppmv, with CO_2 at 0.18, 0.10 and 0.11%, and O_2 levels of 11.0, 9.6 and 9.8%. The propane flow was recorded at 0 scfh, with a well flow of 8 to 15 scfm. The influent vapors had an exceptionally high HC concentration that is most likely the result of a highly contaminated surface zone. The influent vapors were supplying 100% of the IC engine's fuel requirements.

During the last 2.0 hours of the test, the VEW vacuum was increased to 90"H_2O, with a flow of 18 scfm. The outer wells recorded an immediately increasing vacuum trend and then developed a slight decreasing vacuum trend. The barometric pressure developed a slight decreasing trend to 30.24"Hg and the ambient air temperature increased to 93.1°F. Generally, a decreasing barometric pressure results in increased well

pressure on those wells plugged and sealed at the TOC while an increasing barometric pressure results in increased well vacuums. After the induced vacuum ceased, the static well data was recorded 0.5 hours later. Each of the outer wells recorded pressures ranging from 0.02 to 0.08"H_2O. This is essentially the effect of a slightly decreasing barometric pressure during the static period. Immediately after the induced vacuum had ceased, the DTPSH was recorded in VEW (VW-01) at 16.85 ft. This equates to a 3.81 ft increase in the PSH level.

The final HORIBA data indicated the HC level was 100,000+ ppmv, with CO_2 of 0.18% and O_2 at 9.5%. The well vapors continued to supply 100% of the IC engine's required fuel.

The test provided sufficient data to use in the calculation and projection of a vacuum radius of influence (ROI). The ROI is greater in the Easterly direction towards MW-04, while in the Southerly (MW-06) and Westerly (MW-05) directions, the subsurface appears to have soils with less permeability (see attached site plan).

Test #SVE-2 QTs were Quick Tests conducted from wells MW-04, 05 & 06. A QT is defined as a short SVE test (approximately 0.25 to 0.5 hours) conducted from selected outer monitoring wells. Comments regarding the QTs are stated in the attached Field Operating Data Notes.

The following Table #2 indicates the recorded data during each QT test. The test provides the vacuum, flow and HC level and can be used to help in defining the parameters of the subsurface contamination.

TABLE #2

Parameter	Time 1300	Time 1320	Time 1340
Well No.	MW-05	MW-06	MW-04
HORIBA:			
HC PPMV	6,770	76,640	100,000+
CO_2%	0.60	1.82	0.18
O_2%	14.6	12.2	10.7
Gas Flow Fuel/Propane cfh	120	110	0
Air Flow scfm	36	36	40
Well Flow scfm	1.0	1.0	15.0
Recovery Well Vacuum"H_2O	100	100	80
Air Temperature °F	94.6	95.8	96.4
Barometric Pressure "Hg	30.22	30.22	30.21

Test #SVE-3 was a 0.6 hour SVE test conducted from well VW-04 as the VEW. At the start of the test, the DTGW (no PSH) was recorded at 33.85 ft. The VEW induced vacuum was set at 80"H_2O, with a flow of 18 scfm. The barometric pressure was 30.18"Hg and the ambient air temperature was 99.6°F. All the outer wells recorded an increasing vacuum trend in response to the VEW induced vacuum with VW-01 recording the highest level. Within 0.1 hour of starting the test, the well flow developed a decreasing trend and within 0.5 hours had decreased from 18 to 8 scfm. This was an indication that the GW level was up-welling, reducing the available well screen. When the VEW vacuum was quickly discontinued, the GW level was 30.85 ft, an upwelling of 3.0 ft. Since liquid PSH was observed in VW-01 (25 ft distance), the decision was to terminate Test #SVE-3 and not provide a conduit for the liquid to migrate into the VW-04 area. No data was scheduled for this test. Information on the test can be found in the attached field operating data sheets.

Test #SVE-4 was a 1.8 hour SVE test conducted from well VW-01 as the VEW. This could be considered a continuation of SVE-1 at a lower induced vacuum and well flow to determine the upwelling of the liquid PSH. During the test period, the VEW induced vacuum was steady at 50"H_2O, with a well flow of 10 scfm. The barometric pressure decreased from 30.13 to 30.09"Hg and the ambient air temperature decreased from 101.2 to 92.3°F. The test was terminated 10 minutes early due to a threatening rainstorm with lightning. At the start of the test, all the outer wells recorded an increasing vacuum trend in response to the VEW induced vacuum and flow. Outer well MW-04 continued on an increasing trend, MW-05 became steady and MW-06 recorded a decreasing vacuum trend and developed well pressure during the last 0.5 hours.

HORIBA data indicated the influent vapors had an average hydrocarbon level of 100,000+ ppmv, CO_2 at 0.18% and O_2 at 9.8%. The well vapors were supplying 100% of the IC engine's fuel.

At the conclusion of the test, the PSH liquid level had increased 2.04 ft (20.66 - 18.60 = 2.04 ft). The test provided excellent data to support SVE as a remediation option.

HORIBA data during SVE Tests #1 & 4 indicated the influent vapors had an average hydrocarbon level of 100,000+ ppmv. Laboratory analysis of influent vapor samples indicates the benzene level is approximately 2.0% of the TPH. Using an average well flow of 13 scfm, the calculated emission without vapor treatment from <u>one</u> extraction well are as follows:

TPH	=	469	lbs/day	=	19.54	lbs/hr
Benzene	=	7.5	lbs/day	=	0.313	lbs/hr

However, if the induced vacuum is maintained at 50"H_2O and the well flow averages 10 scfm, the calculated results are as follows:

TPH	=	361	lbs/day	=	15.04	lbs/hr
Benzene	=	5.77	lbs/day	=	0.24	lbs/hr

The HC calculation is within 0.14 lbs/hr of the calculated fuel burn rate of the IC engine, from the horsepower curve, as show under Fuel Use Information, Page 2.

Although the HORIBA Analyzer has been reasonably accurate compared to laboratory analysis of influent vapors, projections should be based on analytical results from a Certified Testing Laboratory qualified to conduct tests on air emission samples.

Additional Information (This should be read as part of the report):

- Summary of Operating Data
- Graphic Summary of Data, SVE Tests #1 & 4
- Figure #1 - Plot of Observed Vacuum vs Distance at the Facility - Easterly Direction
- Figure #2 - Plot of Observed Vacuum vs Distance at the Facility - Southwesterly Direction
- Field Operating Data and Notes
- Site Map
- Site Photographs

Summary & Observations:

- **Test #SVE-1 & 4.** The vacuum radius of influence (ROI) from well VW-01 is greater in the Easterly direction towards MW-04, while in the South (MW-06) and West (MW-05) the sub-surface appears to have soils with less permeability.
- Liquid PSH upwelling in VEW (VW-01) occurred as a result of the SVE induced vacuum.
- The PSH pool seems to be concentrated around well VW-01.
- The influent vapor TPH levels were exceptionally high in wells VW-01, MW-04 & 06.
- Wells MW-05 & 06 had exceptionally low well flows due to the low permeable sub-surface soils.

Conclusion:

Pilot Tests are conducted to provide information on short-term tests that can be projected into a long-term remedial plan. **These feasibility tests indicated that soil vacuum extraction would be an effective method of remediation for this facility.** Although the observed vacuum on some of the outer

observation wells was relatively low, the duration of the pilot tests was short compared to continuous operation. However, the results give positive indication that the observed and reported wells were in vacuum communication with the selected SVE extraction well. The radius of influence defines the region within which the vapor in the vadose zone flows to the extraction well under the influence of a vacuum. The radius of influence depends on soil properties of the vented zone, properties of surrounding soil-layers, the depth at which the well is screened, well installation and the presence of any impermeable boundaries such as the water table, clay layers, surface seal, building basements and the presence of such areas as tank pits with backfill and underground utilities.

Figure #1 indicated that the effective vacuum radius of influence in the Easterly direction towards MW-04 would be from 50.03 to 56.23 ft, with extraction well flow of 13 to 15 scfm, and extraction well vacuum in the 70"H_2O range. An approximation of the radius of influence may be obtained by determining the point at which the measured vacuum is **0.40 to 0.50"H_2O.** It is assumed that beyond the lower point, the pressure gradient (driving force) is negligible to effectively transport vaporized contaminants to the extraction well. Under continuous operation, vacuum and radius of influence will continue to increase horizontally and vertically.

Figure #2 indicated that the effective vacuum radius of influence in the Southerly and Westerly direction towards MW-05 & 06 would be from 21.35 to 25.00 ft, with extraction well flow of 13 to 15 scfm, and extraction well vacuum in the 70"H_2O range. An approximation of the radius of influence may be obtained by determining the point at which the measured vacuum is **0.25 to 0.30"H_2O.** It is assumed that beyond the lower point, the pressure gradient (driving force) is negligible to effectively transport vaporized contaminants to the extraction well. Under continuous operation, vacuum and radius of influence will continue to increase horizontally and vertically.

The effective radius of influence is based on calculations and equations using a software program of which data was provided from an extensive database collected by AcuVac over a period of years. Each projection is based on the test data and site parameters, and takes into consideration such variables as barometric pressure oscillations and gauge error. Although we cannot provide total assurance of accuracy, past experience and results have proven these projections to be well within the acceptable range of accuracy.

To calculate SVE well placement, the equation we use is as follows:

$L = 2\ Ri \cos 30°$; L = distance between wells; Ri = radius of influence

All other data, including the groundwater depth, well placement, extraction well screened intervals, air injection pressure and flow and SVE recovery rate, must be considered in the final decision on a remediation plan.

Recommendations:

To limit the migration of the liquid PSH pool, an SVE System should be installed on well VW-01. Since upwelling of liquid product occurred, a pneumatic bladder pump (bottom loading) would be helpful to enhance the remediation process. A new 4.0 inch extraction well with **an additional** 5 ft of depth and 5 ft of screen would allow SVE/PSH pumping to be more effective.

The AcuVac SVE System performed as represented and should be considered a viable technology to use for the remediation of this location. The SVE System with the 300 CID, 6 cylinder engine can provide total extraction well flow of approximately 80 scfm with a vacuum up to 20"Hg. These Systems are designed to consume heavy concentrations of VOCs and meet all air emission standards. The auxiliary fuel can be propane or natural gas. No electrical connections are required. AcuVac can also supply a custom building designed for security, reduction of noise, and color coordinated to provide aesthetic value.

Once you have reviewed the report, please call me if you have any questions.

Sincerely,

James E. Sadler
Engineer/Environmental

20116 REP

HELSTF
WHITE SANDS MISSILE RANGE, NM
Test #SVE-1, Pg 1

7/12/00	Static Data Time 0625	First Data Time 0630	Second Data Time 0700	Third Data Time 0730	Fourth Data Time 0800	Fifth Data Time 0830
Horiba HC ppm	NA	NA	80,410	NA	NA	NA
Horiba CO_2%	NA	NA	0.18	NA	NA	NA
Horiba O_2%	NA	NA	11.0	NA	NA	NA
Influent Vapor Temp °F	OFF	62	63	63	63	63
Barometric Pressure "Hg	30.20	30.20	30.18	30.18	30.20	30.22
Extraction Well Flow CFM Well VW-01	OFF	6	8	10	14	14
Extraction Well Vacuum "H_2O Well VW-01	OFF	60	60	60	80	80
Well MW-06 Vacuum "H_2O Dist. 23.9 ft	.02	.05	.15	.23	.27	.33
Well MW-05 Vacuum "H_2O Dist. 25.0 ft	.01	.04	.06	.09	.11	.11
Well MW-04 Vacuum "H_2O Dist. 25.0 ft	.07	.25	.85	1.10	1.50	1.55

-() Indicates Well Pressure

NA - No Data Recorded

7/12/00	Sixth Data Time 0900	Seventh Data Time 0930	Eighth Data Time 1000	Ninth Data Time 1030	Tenth Data Time 1100	Eleventh Data Time 1130
Horiba HC ppm	100,000	NA	100,000	NA	NA	NA
Horiba CO_2%	0.10	NA	0.11	NA	NA	NA
Horiba O_2%	9.6	NA	9.8	NA	NA	NA
Influent Vapor Temp °F	63	63	63	63	63	63
Barometric Pressure "Hg	30.24	30.26	30.26	30.26	30.26	30.25
Extraction Well Flow CFM Well VW-01	15	15	15	15	18	18
Extraction Well Vacuum "H_2O Well VW-01	80	80	80	80	90	90
Well MW-06 Vacuum "H_2O Dist. 23.9 ft	.34	.34	.32	.32	.33	.31
Well MW-05 Vacuum "H_2O Dist. 25.0 ft	.12	.13	.13	.13	.14	.13
Well MW-04 Vacuum "H_2O Dist. 25.0 ft	1.60	1.60	1.55	1.55	1.58	1.55

-() Indicates Well Pressure

NA - No Data Recorded

7/12/00	Twelfth Data Time 1200	Thirteenth Data Time 1230	Static Data Time 1255	Average Data 6.5 Hrs	Maximum Data
Horiba HC ppm	100,000	NA	NA	95,103	100,000
Horiba CO_2%	0.18	NA	NA	0.14	0.18
Horiba O_2%	9.5	NA	NA	10.0	11.0
Influent Vapor Temp °F	63	63	-	62.9	63
Barometric Pressure "Hg	30.24	30.24	30.23	30.23	30.26
Extraction Well Flow CFM Well VW-01	18	18	OFF	14	18
Extraction Well Vacuum "H_2O Well VW-01	90	90	OFF	78.5	90
Well MW-06 Vacuum "H_2O Dist. 23.9 ft	.31	.31	-(.06)	.26	.34
Well MW-05 Vacuum "H_2O Dist. 25.0 ft	.14	.13	-(.02)	.11	.14
Well MW-04 Vacuum "H_2O Dist. 25.0 ft	1.55	1.52	-(.08)	1.27	1.60

-() Indicates Well Pressure

NA - No Data Recorded

SCHEDULE A

HELSTF
WHITE SANDS MISSILE RANGE, NM
Test #SVE-4, Pg 1

AcuVac Remediation Inc.

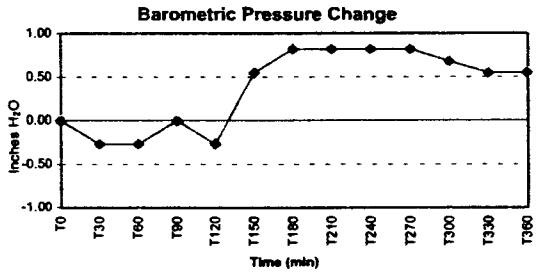
7/12/00	Static Data Time	First Data Time 1530	Second Data Time 1600	Third Data Time 1630	Fourth Data Time 1700	Fifth Data Time 1720	Average Data 1.8 Hrs	Maximum Data
Horiba HC ppm	NA	NA	100,000	NA	NA	NA	100,000	100,000
Horiba CO_2%	NA	NA	0.18	NA	NA	NA	0.18	0.18
Horiba O_2%	NA	NA	9.8	NA	NA	NA	9.8	9.8
Influent Vapor Temp °F	NA	64	64	64	64	64	64	64
Barometric Pressure "Hg	-	30.13	30.12	30.12	30.10	30.09	30.11	30.13
Extraction Well Flow CFM Well VW-01	-	10	10	10	10	10	10	10
Extraction Well Vacuum "H_2O Well VW-01	-	50	50	50	50	50	50	50
Well MW-06 Vacuum "H_2O Dist. 23.9 ft	-	.08	.09	.03	-(.02)	-(.08)	.02	.09
Well MW-05 Vacuum "H_2O Dist. 25.0 ft	-	.06	.11	.12	.10	.11	.10	.12
Well MW-04 Vacuum "H_2O Dist. 25.0 ft	-	.38	.82	.96	1.05	1.08	.86	1.08

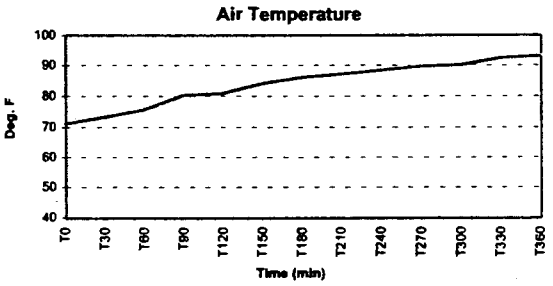
-() Indicates Well Pressure

NA - No Data Recorded

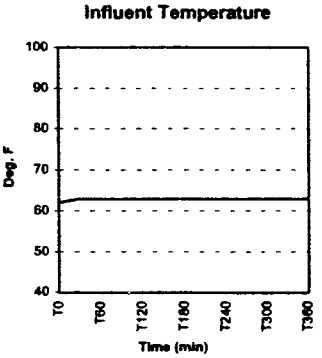
SCHEDULE B
Summary of ACUVAC TEST #SVE-1

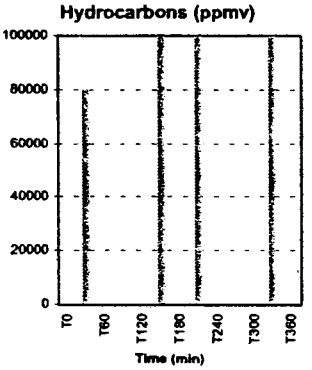
Atmospheric Conditions

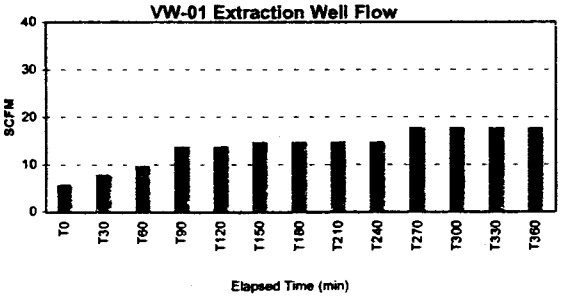


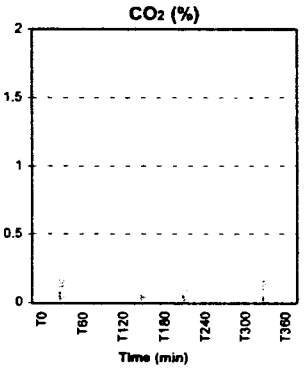


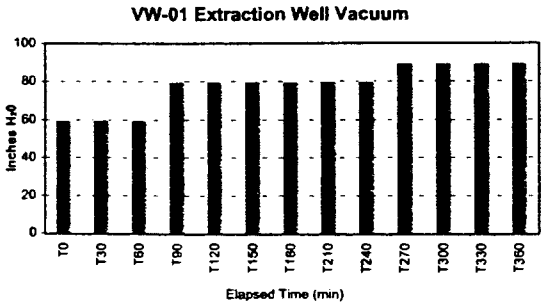
Influent Vapor Data

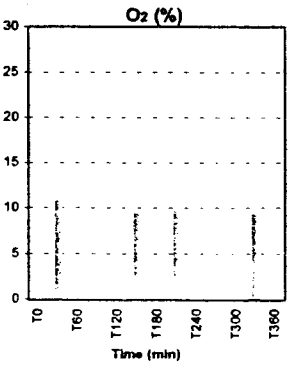






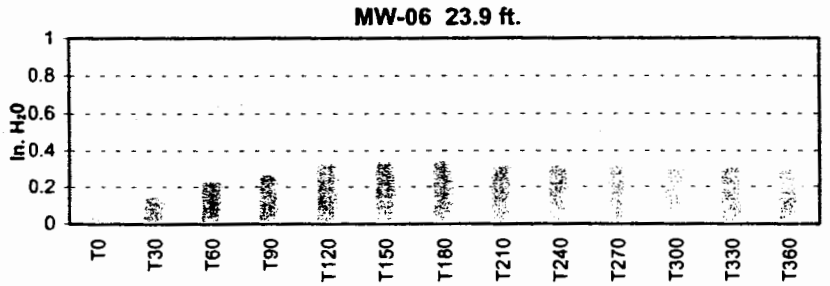


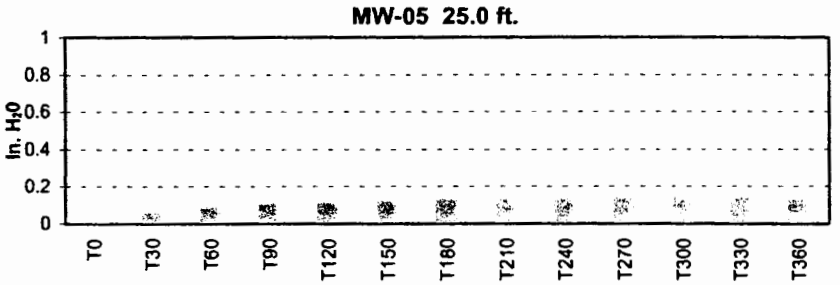


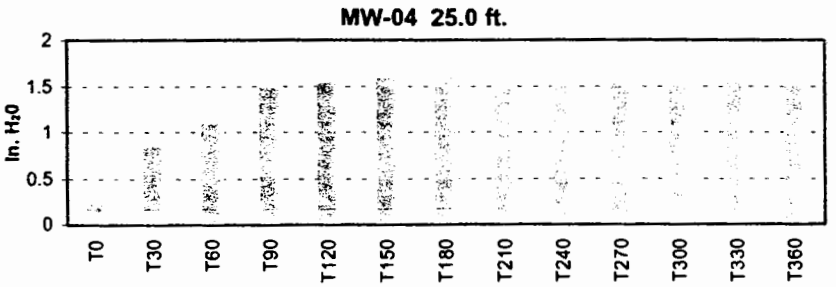


SCHEDULE B
Summary of ACUVAC TEST #SVE-1

Recorded Well Vacuums and/or Pressures

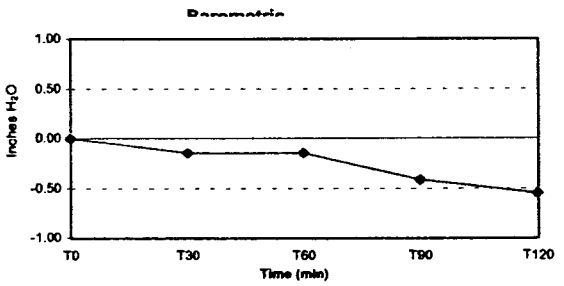


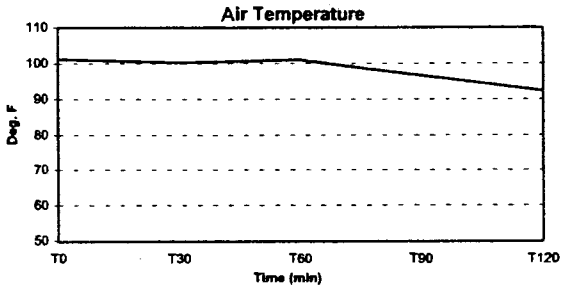


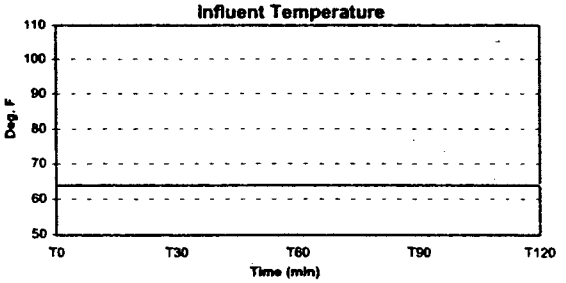


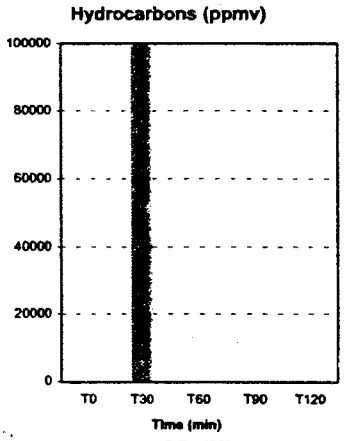
SCHEDULE B
Summary of ACUVAC TEST #SVE-4

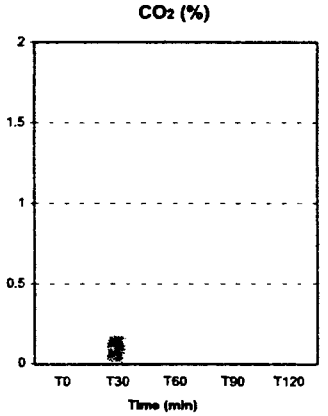
Atmospheric Conditions

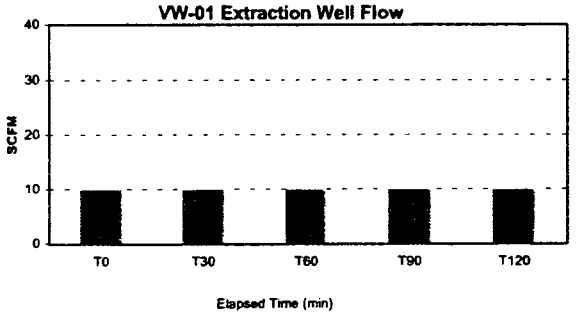


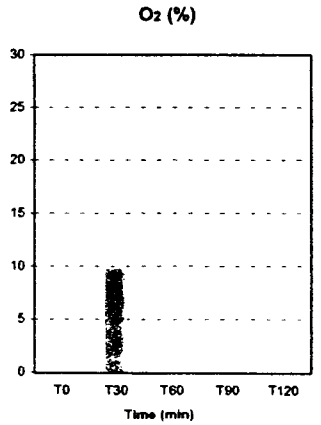


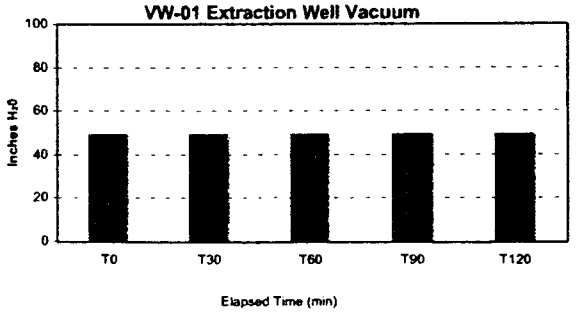






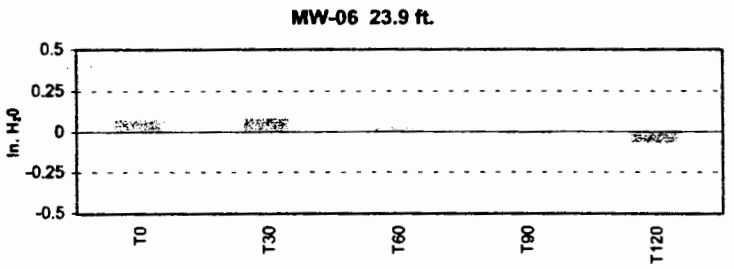


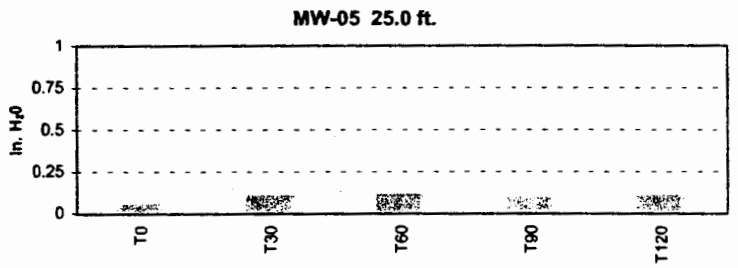




SCHEDULE B
Summary of ACUVAC TEST #SVE-4

Recorded Well Vacuums and/or Pressures





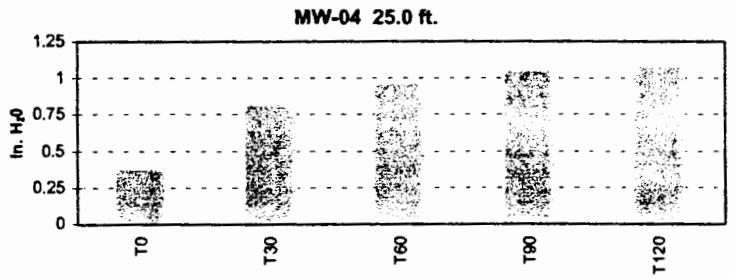


Figure #1
Radius of Influence
Data from Test #SVE-1 & 4 - Easterly Direction

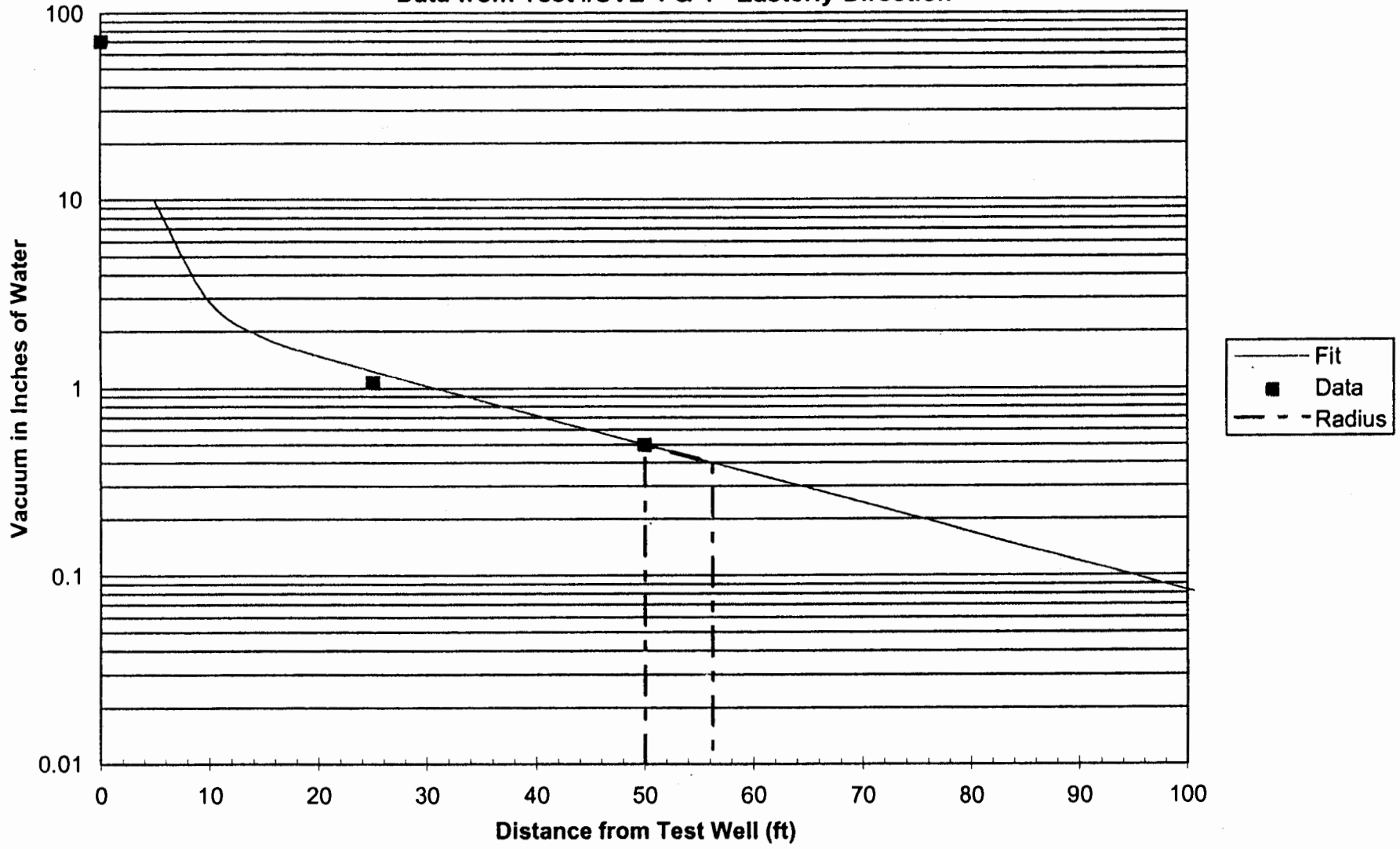
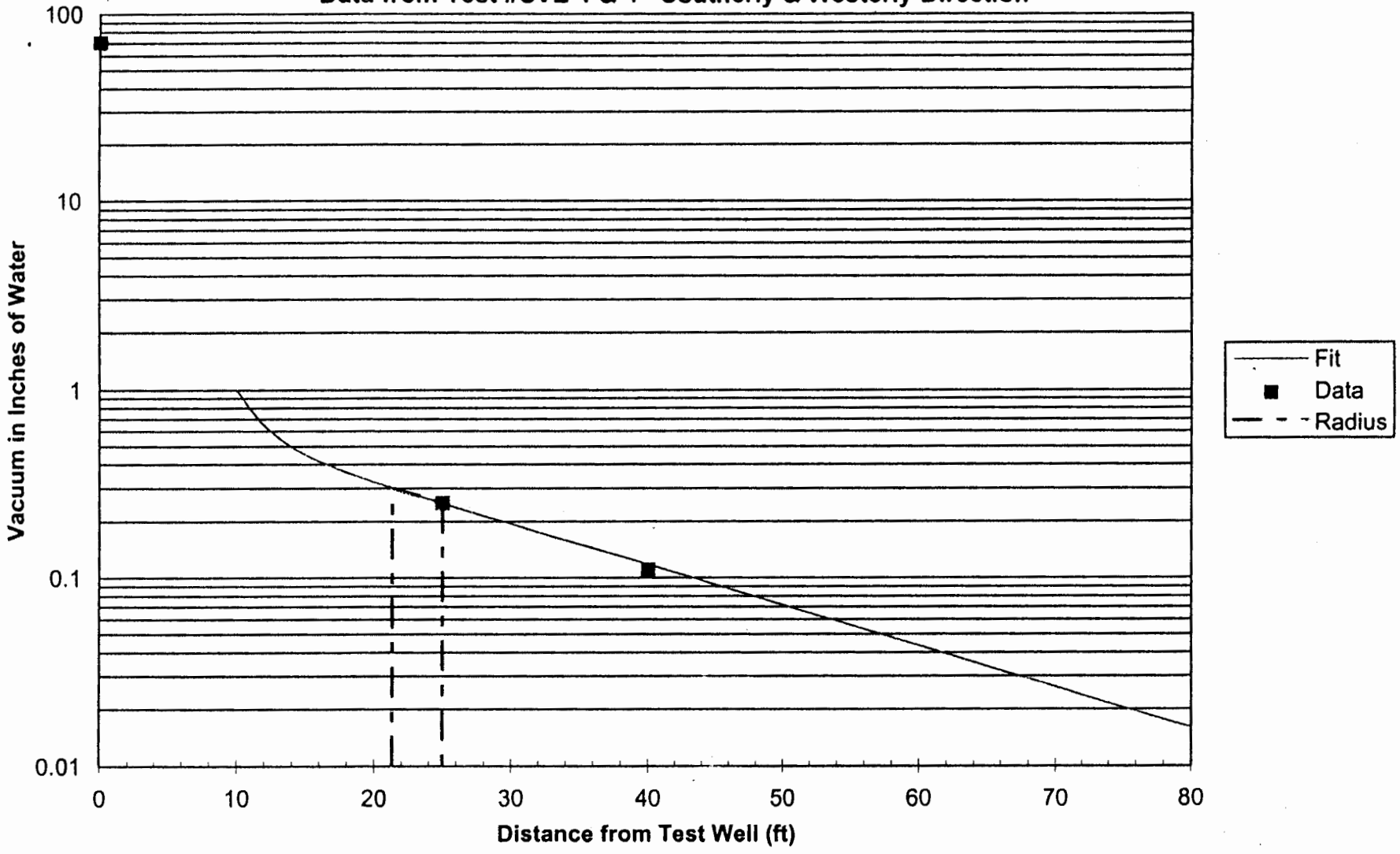


Figure #2
Radius of Influence
Data from Test #SVE-1 & 4 - Southerly & Westerly Direction



AvR

OPERATING DATA - TEST # SVE-1 PAGE # 1

ACUVAC SVE SYSTEM

Location: HELSTF - WHITE SANDS MISSILE RANGE, NM Project Engr: SADLER/LUNDGREN

	Date:	07-12-00	–	–	–	–	–
	Parameters	Time 0625	Time 0630	Time 0700	Time 0730	Time 0800	Time 0830
		Hr Meter 3146.9	Hr Meter 3147.0	Hr Meter 3147.5	Hr Meter 3148.0	Hr Meter 3148.5	Hr Meter 3149.0
ENGINE/BLOWER	R.P.M.	1500	2200	2200	2200	2400	2400
	Oil Pressure psi	45	45	45	45	45	45
	Water Temp °F	160	165	165	165	170	170
	Volts	13	13	13	13	13	13
	Intake Vac "Hg	19	19	18	18	17	17
	Gas Flow Fuel/Propane cfh	100	0	0	0	0	0
ATMOSPHERE/VAPORS/AIR	Fresh Air Flow cfm	24	40	40	40	45	45
	Extraction Well Flow VW-01 cfm	OFF	6	8	10	14	14
	Extraction Well Vac VW-01 "H_2O	OFF	60	60	60	80	80
	Influent Vapor Temp °F	N/A	62	63	63	63	63
	Air Temp °F	72.6	72.3	73.5	75.8	80.5	81.1
	Barometric Pressure "Hg	30.20	30.20	30.18	30.18	30.20	30.22
MONITOR WELL VACUUM	MW-06 "H_2O	.02	.05	.15	.23	.27	.33
	MW-05 "H_2O	.01	.04	.06	.09	.11	.11
	MW-04 "H_2O	.07	.25	.85	1.10	1.50	1.55
	"H_2O						
	"H_2O						
	"H_2O						
	"H_2O						
	"H_2O						
	"H_2O						
	"H_2O						
	"H_2O						
MANIFOLD	SVE On/Off	OFF	ON	ON	ON	ON	ON
	Air Injection Pressure psi	N/A	–	–	–	–	–
	Air Injection Flow cfm	N/A	–	–	–	–	–
	Samples						

STATIC DATA

( ) Indicates Well Pressure

TEST	Instrument	HORIBA					
	Well #	VW-01					
	Time	0645					
VAPOR/INFLUENT	HC ppm	80,410					
	CO_2 %	.18					
	CO %	0.45					
	O_2 %	11.0					
EMISSIONS	HC ppm						
	CO_2 %						
	CO %						
	Air/Fuel Ratio %						

OPERATING DATA AND NOTES

DATE: 07/12/00 WHITE SANDS MISSILE RANGE TEST NO: SVE-1 Page No: 1

0600	Arrived @ location - Cleared security -
0610	Setup SVE System on well VW-01 as the vapor extraction
	well (VEW) - Recorded DTPSH/DTGW in VW-01 and MW-04
0620	Plugged outer wells - Safety checks - All OK - Calibrated
	instruments - Connected SVE System to VW-01
0625	Recorded static well data: Recording slight vacuums
0630	START TEST SVE-1 - Initial induced vacuum set @ 60" H_2O,
	flow @ 6.0 scfm - Propane reduced to 0 in 2.0 minutes
0640	Well flow increased to 8.0 scfm, vacuum @ 60" H_2O. All outer
	wells recording increased levels of vacuum
0645	HORIBA DATA - Influent vapors TPH or HC = 80,410 ppmv - CO_2 = .18 %, O_2 = 11%
0700	Recorded data: All outer wells on increasing vacuum trend - MW-04 ↑↑
	BP ↓↓ - VW @ 60" H_2O, 8.0 scfm
0730	Recorded data: VEW @ 60" H_2O flow @ 10 scfm - Outer wells
	continue on increasing trend BP ← → Increased VW to 80", 14 scfm
0800	Recorded data: All outer wells recorded increasing trend in response to VEW ↑
	VEW @ 80" H_2O, flow @ 14 scfm BP ↑↑ - MW-04 ↑↑↑
0830	Recorded data: Outer wells on slight ↑ - BP ↑↑ - VEW steady

AvR

OPERATING DATA - TEST #SVE-1 PAGE # 2

ACUVAC
SVE SYSTEM

Location: HELSTF WHITE SANDS MISSILE RANGE, NM Project Engr: SADLER / LUNDGREN

	Date:	07-12-00	—	—	—	—	—
	Parameters	Time 0900	Time 0936	Time 1000	Time 1030	Time 1100	Time 1130
		Hr Meter 3149.5	Hr Meter 3150.0	Hr Meter 3150.5	Hr Meter 3151.0	Hr Meter 3151.5	Hr Meter 3152.0
ENGINE/BLOWER	R.P.M.	2400	2400	2400	2300	2600	2700
	Oil Pressure psi	45	45	45	45	45	45
	Water Temp °F	175	175	175	175	175	175
	Volts	13	13	13	13	13	13
	Intake Vac "Hg	17	17	17	17	16	16
	Gas Flow Fuel/Propane cfh	0	0	0	0	0	0
ATMOSPHERE/VAPORS/AIR	Fresh Air Flow cfm	45	45	45	45	46	46
	Extraction Well Flow VW-01 cfm	15	15	15	15	18	18
	Extraction Well Vac VW-01 "H_2O	80	80	80	80	90	90
	Influent Vapor Temp °F	63	63	63	63	63	63
	Air Temp °F	84.2	86.1	87.3	88.6	89.7	90.3
	Barometric Pressure "Hg	30.24	30.26	30.26	30.26	30.26	30.25
MONITOR WELL VACUUM	MW-06 "H_2O	.34	.34	.32	.32	.33	.31
	MW-05 "H_2O	.12	.13	.13	.13	.14	.13
	MW-04 "H_2O	1.60	1.60	1.55	1.55	1.58	1.55
	"H_2O						
	"H_2O						
	"H_2O						
	"H_2O						
	"H_2O						
	"H_2O						
	"H_2O						
	"H_2O						
MANIFOLD	SVE On/Off	ON	ON	ON	ON	ON	ON
	Air Injection Pressure psi	N/A	—	—	—	—	—
	Air Injection Flow cfm	N/A	—	—	—	—	—
	Samples						

( ) Indicates Well Pressure

TEST	Instrument	HORIBA	HORIBA				
	Well #	VW-01	VW-01				
	Time	0910	1010				
VAPOR/INFLUENT	HC ppm	>100,000	>100,000				
	CO_2 %	.10	.11				
	CO %	.14	.26				
	O_2 %	9.6	9.8				
EMISSIONS	HC ppm						
	CO_2 %						
	CO %						
	Air/Fuel Ratio %						

OPERATING DATA AND NOTES

DATE: 07/12/00 WHITE SAND MISSILE RANGE TEST NO: SVE1 Page No: 2

0900	Recorded data: Outer wells recording slight increased
	vacuum levels - BP ↑↑ - VW steady
0910	HORIBA DATA - HC = 100,000 + ppmv, CO_2 = .10%, O_2 = 9.6%
0930	Recorded data: Outer wells mostly steady - BP ↑↑
	VEW steady @ 80" H_2O, flow at 15 scfm
1000	Recorded data: Outer wells indicated a slight decreased
	vacuum level BP ↔ VEW steady
1010	HORIBA DATA: HC = 100,000 + ppmv, CO_2 = .11%, O_2 = 9.8%
1030	Recorded DATA: All systems steady - Outer wells steady
	BP ↔
1035	Increased VEW induced vacuum to 90" H_2O, flow @ 18 scfm
1100	Recorded data: Outer wells recorded a slight increasing
	vacuum trend in response to the VEW induced vacuum
	increase - BP ↔
1130	Recorded data: Outer wells steady VEW steady - BP ↓

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AVR

OPERATING DATA - TEST # SVE-1 PAGE # 3

ACUVAC SVE SYSTEM

Location: HELSTF - WHITE SANDS MISSILE RANGE, NM Project Engr: SADLER/LUNDGREN

	Date:	07-12-00	—	—			
	Parameters	Time 1200	Time 1230	Time 1255	Time	Time	Time
		Hr Meter 3152.5	Hr Meter 3153.0	Hr Meter 3153.4	Hr Meter	Hr Meter	Hr Meter
ENGINE/BLOWER	R.P.M.	2700	2700	1500			
	Oil Pressure psi	45	45	45			
	Water Temp °F	175	175	175			
	Volts	13	13	13			
	Intake Vac "Hg	16	16	16			
	Gas Flow Fuel/Propane cfh	0	0	0			
ATMOSPHERE/VAPORS/AIR	Fresh Air Flow cfm	46	46	25			
	Extraction Well Flow VW-01 cfm	18	18	OFF			
	Extraction Well Vac VW-01 "H_2O	90	90	OFF			
	Influent Vapor Temp °F	63	63	N/A			
	Air Temp °F	92.6	93.1	93.8			
	Barometric Pressure "Hg	30.24	30.24	30.23			
MONITOR WELL VACUUM	MW-06 "H_2O	.31	.31	(.06)			
	MW-05 "H_2O	.14	.13	(.02)			
	MW-04 "H_2O	1.55	1.52	(.08)			
	"H_2O						
	"H_2O						
	"H_2O						
	"H_2O						
	"H_2O						
	"H_2O						
	"H_2O						
	"H_2O						
MANIFOLD	SVE On/Off	ON	ON	OFF			
	Air Injection Pressure psi	N/A	—	—			
	Air Injection Flow cfm	N/A	—	—			
	Samples						

STATIC DATA

( ) Indicates Well Pressure

TEST	Instrument	HORIBA					
	Well #	VW-01					
	Time	1210					
VAPOR/INFLUENT	HC ppm	>100,000					
	CO_2 %	.18					
	CO %	.18					
	O_2 %	9.5					
EMISSIONS	HC ppm						
	CO_2 %						
	CO %						
	Air/Fuel Ratio %						

DATE: 07/12/00

OPERATING DATA AND NOTES
WHITE SANDS MISSILE RANGE

TEST NO: SVE-1 Page No: 3

1200	Recorded data: All systems steady - BP ↓
1210	HORIBA DATA: HC = 100,000 + ppmv, CO_2 = .18%, O_2 = 9.5%
1230	Recorded data: Outer wells recording slight decreasing
	trend - BP ↔ VEW systems steady
1235	DTPSH = 16.85' DTGW = 20.66' - Discontinued SVE
	to allow time for outer wells to adjust to
	static atmospheric conditions - Total PSH = 3.81'
1255	Recorded static well data: All outer wells
	recording slight well pressures
	TEST SVE-1 Completed

AvR

OPERATING DATA - TEST # SVE-3 PAGE # 1

ACUVAC SVE SYSTEM

Location: HELSTF - WHITESANDS MISSILE RANGE, NM Project Engr: SADLER/LUNDGREN

	Date:	07-12-00	–	–			
	Parameters	Time 1425	Time 1430	Time 1500	Time	Time	Time
		Hr Meter 3154.9	Hr Meter 3155.0	Hr Meter 3155.5	Hr Meter	Hr Meter	Hr Meter
ENGINE/BLOWER	R.P.M.	1000	2700	2500			
	Oil Pressure psi	45	45	45			
	Water Temp °F	175	175	175			
	Volts	13	13	13			
	Intake Vac "Hg	19	16	16			
	Gas Flow Fuel/Propane cfh	90	0	0			
ATMOSPHERE/VAPORS/AIR	Fresh Air Flow cfm	21	46	47			
	Extraction Well Flow VW-04 cfm	OFF	18	18			
	Extraction Well Vac VW-04 "H_2O	OFF	80	80			
	Influent Vapor Temp °F	N/A	68	68			
	Air Temp °F	99.6	99.8	100.1			
	Barometric Pressure "Hg	30.18	30.18	30.17			
MONITOR WELL VACUUM	VW-01 "H_2O	(.10)	.38 v	.60			
	MW-05 "H_2O	(.06)	.08 v	.11			
	MW-06 "H_2O	.20 V	.21 v	.12 v			
	"H_2O	STATIC WELL DATA					
	"H_2O						
	"H_2O						
	"H_2O						
	"H_2O						
	"H_2O						
	"H_2O						
	"H_2O						
MANIFOLD	SVE On/Off	OFF	ON	ON			
	Air Injection Pressure psi						
	Air Injection Flow cfm						
	Samples						

( ) Indicates Well Pressure

TEST	Instrument	HORIBA					
	Well #	VW-04					
	Time	1445					
VAPOR/INFLUENT	HC ppmv	7100,000					
	CO_2 %	.21					
	CO %	0					
	O_2 %	10.75					
EMISSIONS	HC ppm						
	CO_2 %						
	CO %						
	Air/Fuel Ratio %						

OPERATING DATA AND NOTES

DATE: 07 / 12 / 00 WHITE SANDS MISSILE RANGE TEST NO SVE-3 Page No: 1

1355	Connected SVE System to well MW-04 as the
	vapor extraction well (VEW) - Plugged outer wells
	Recorded static well data - MW-06 recording vacuum 0.4" H_2O,
	delayed start of test until MW-06 stabilizes
1425	Recorded static well data: Outer wells VW-01 and
	MW-05 recorded well pressures, MW-06 recorded well vac
	Recorded DTGW = 33.85 ft
1430	START TEST SVE-3 - Initial induced vacuum @ 80" H_2O
	flow @ 18 scfm - Outer wells recorded an increasing
	vacuum trend
1445	HORIBA DATA - HC = 100,000+ ppmv, CO_2 = .21%, O_2 = 10.7%
1500	Recorded data: VEW vacuum @ 80" H_2O, flow decreased
	to 8.0 scfm - Sign of limited screen area.
	Shut off SVE - Recorded DTGW = 30.85 (up 3.0 ft)
	Discontinued Test - Did not want to move PSH
	pool out of localized area

Form/19950

AVR

OPERATING DATA - TEST # SVE-4 PAGE # 1

ACUVAC
SVE SYSTEM

Location: HELSTF-WHITESANDS MISSILE RANGE, NM Project Engr: SADLER/LUNDGREN

	Date:	07-12-00	–	–	–	–	
	Parameters	Time 1530	Time 1600	Time 1630	Time 1700	Time 1720	Time
		Hr Meter 3156.0	Hr Meter 3156.5	Hr Meter 3157.0	Hr Meter 3157.5	Hr Meter 3157.8	Hr Meter
ENGINE/BLOWER	R.P.M.	2200	2200	2200	2200	2200	
	Oil Pressure psi	45	45	45	45	45	
	Water Temp °F	175	175	175	175	175	
	Volts	13	13	13	13	13	
	Intake Vac "Hg	18	18	18	18	18	
	Gas Flow Fuel/Propane cfh	0	0	0	0	0	
ATMOSPHERE/VAPORS/AIR	Fresh Air Flow cfm	35	35	35	35	35	
	Extraction Well Flow VW-01 cfm	10	10	10	10	10	
	Extraction Well Vac VW-01 "H_2O	50	50	50	50	50	
	Influent Vapor Temp °F	64	64	64	64	64	
	Air Temp °F	101.2	100.3	101.0	96.7	RAIN 92.3	
	Barometric Pressure "Hg	30.13	30.12	30.12	30.10	30.09	
MONITOR WELL VACUUM	MW-06 "H_2O	.08	.09	.03	(.02)	(.08)	
	MW-05 "H_2O	.06	.11	.12	.10	.11	
	MW-04 "H_2O	.38	.82	.96	1.05	1.08	
	"H_2O						
	"H_2O						
	"H_2O						
	"H_2O						
	"H_2O						
	"H_2O						
	"H_2O						
	"H_2O						
MANIFOLD	SVE On/Off	ON	ON	ON	ON	ON	
	Air Injection Pressure psi	N/A	–	–	–	–	
	Air Injection Flow cfm	N/A	–	–	–	–	
	Samples						

NO READINGS TAKEN

( ) Indicates Well Pressure

TEST	Instrument	HORIBA					
	Well #	VW-01					
	Time	1615					
VAPOR/INFLUENT	HC ppm	7100,000					
	CO_2 %	.18					
	CO %	—					
	O_2 %	9.8					
EMISSIONS	HC ppm	12					
	CO_2 %	6.48					
	CO %						
	Air/Fuel Ratio %						

OPERATING DATA AND NOTES

DATE: 07/12/00 WHITE SANDS MISSILE RANGE TEST NO: SVE-4 Page No: 1

1530	Reconnected SUE System to well VW-01 as the vapor
	extraction well (VEW) - Restarted test from VW-01 to
	burn off additional vapors and check flow and outer
	well vacuums at a lower induced vacuum. DTPSH = 20.64', DTEW = 20.66'
	All outer wells recorded on increasing vacuum trend
1600	Recorded data: Outer wells continue to record an increasing
	vacuum trend - VEW steady
1615	HORIBA DATA: HC = 100,000+ ppmv, CO_2 = 0.18%, O_2 = 9.8%
1630	Recorded data: MW-06 on decreasing vacuum trend, Other
	2 wells on increasing trend - VEW steady
1700	Recorded data: MW-06 recording slight pressure, other wells steady
	BP ↓↓ - Note drop in air temp - storm clouds
1720	Recorded data: Discontinued test early - Storm DTPSH - 18.6'
	clouds and lighting. Note rapid BP and temp drop. Now, light rain
	All test data more than satisfactory - Note rise in PSH
	of 2.04' @ 50" H_2O - Test. SVE-4 Completed
1745	Secured all wells - Departed site

Form/19930

AcuVac Remediation

OPERATING DATA - TEST NO SVE-2QT

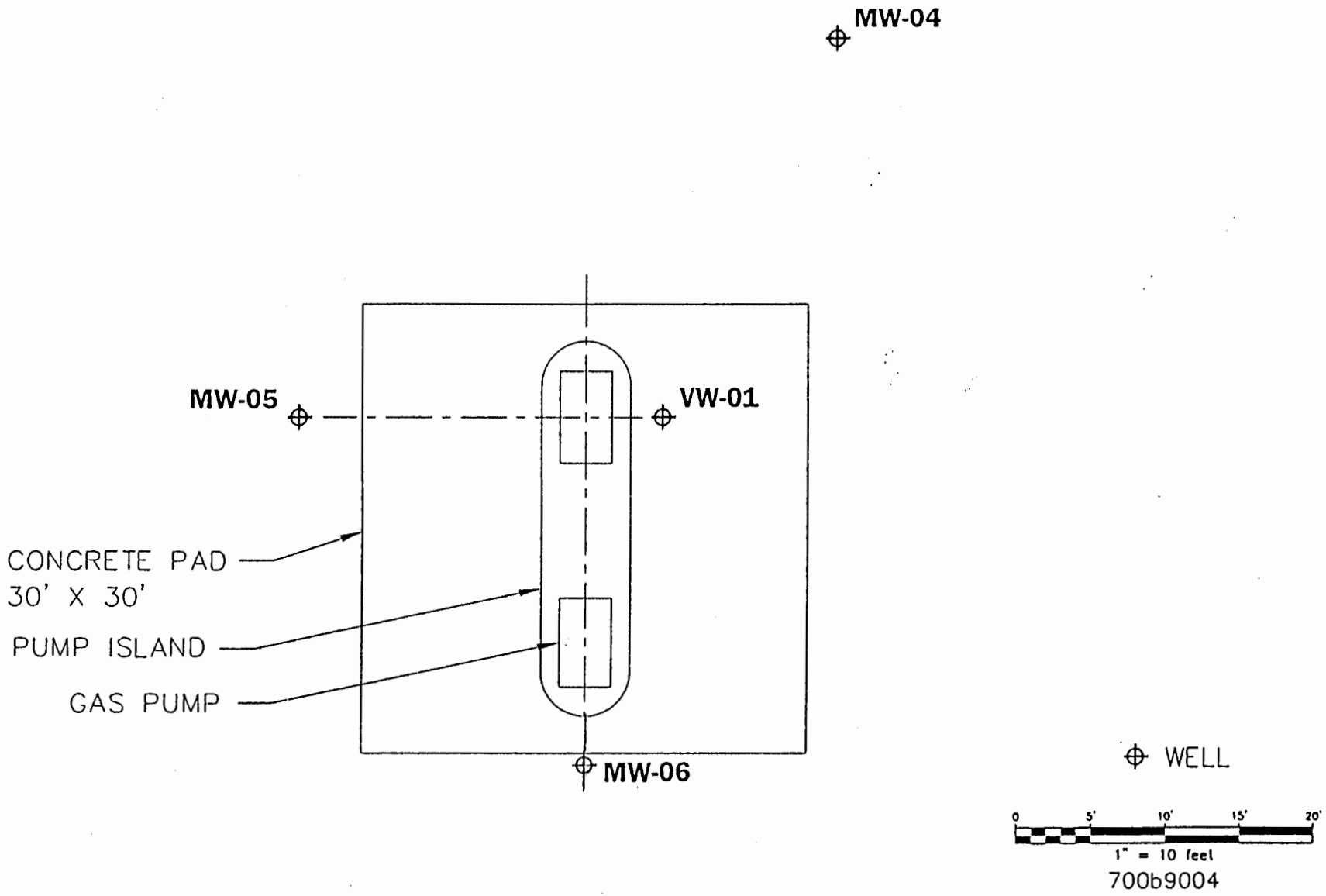
ACUVAC SVE SYSTEM

Page 1 Location HELSTF - WHITESANDS MISSILE RANGE, NM Project Engr. SADLER/[illegible]

	Date	07-12-00	—	—			
	Parameter	Time 1300	Time 1320	Time 1340	Time	Time	Time
		Hr. Meter 3153.5	Hr. Meter 3153.8	Hr. Meter 3154.3	Hr. Meter	Hr. Meter	Hr. Meter
IDENTIFICATION/ VAPOR DATA	Well No.	MW-05	MW-06	MW-04			
	HORIBA	—	—	—	—	—	—
	HC PPM	6770	76,640	>100,000			
	CO_2%	.60	1.82	.18			
	O_2%	14.6	12.2	10.7			
FUEL/AIR	Gas Flow Fuel/Propane cfh	120	110	0			
	Air Flow DILUTION cfm	36	36	40			
	Well Flow cfm	1.0	1.0	15			
	Recovery Well Vac "H_2O	100	100	80			
	Air Temp °F	94.6	95.8	96.4			
	Barometric Pressure "Hg	30.22	30.22	30.21			

OPERATING DATA AND NOTES

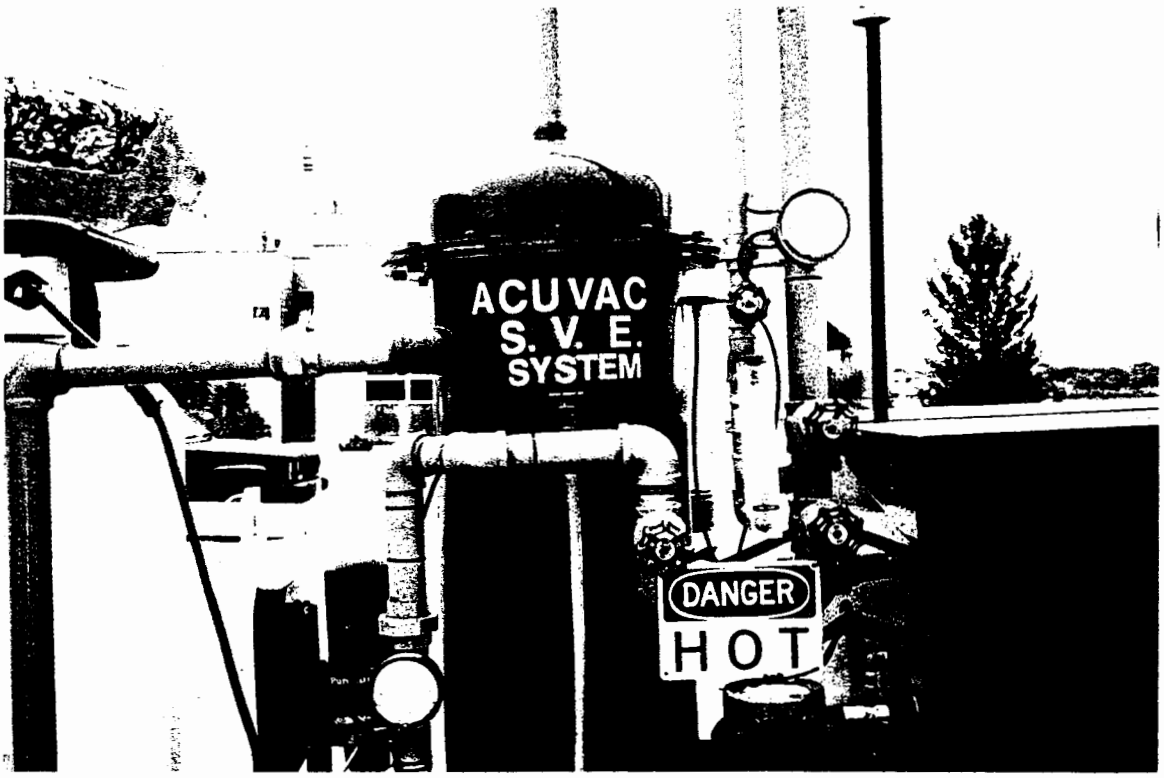
1300	START TEST, SVE QT 1-A - Well MW-05 NO GW
1315	Completed Test QT 1A - HC present, low CO_2, high O_2 - LOW FLOW
1320	START TEST SVE QT 1-B - Well MW-06 - NO GW
1330	Completed Test QT 1-B - VERY High HC, low CO_2, high O_2 LOW FLOW
1340	START TEST SVE QT 1-C - Well MW-04 DTGW=33.85' NO PSH
1450	Completed Test QT 1-C VERY High HC, low CO_2, high CO_2 FLOW OK



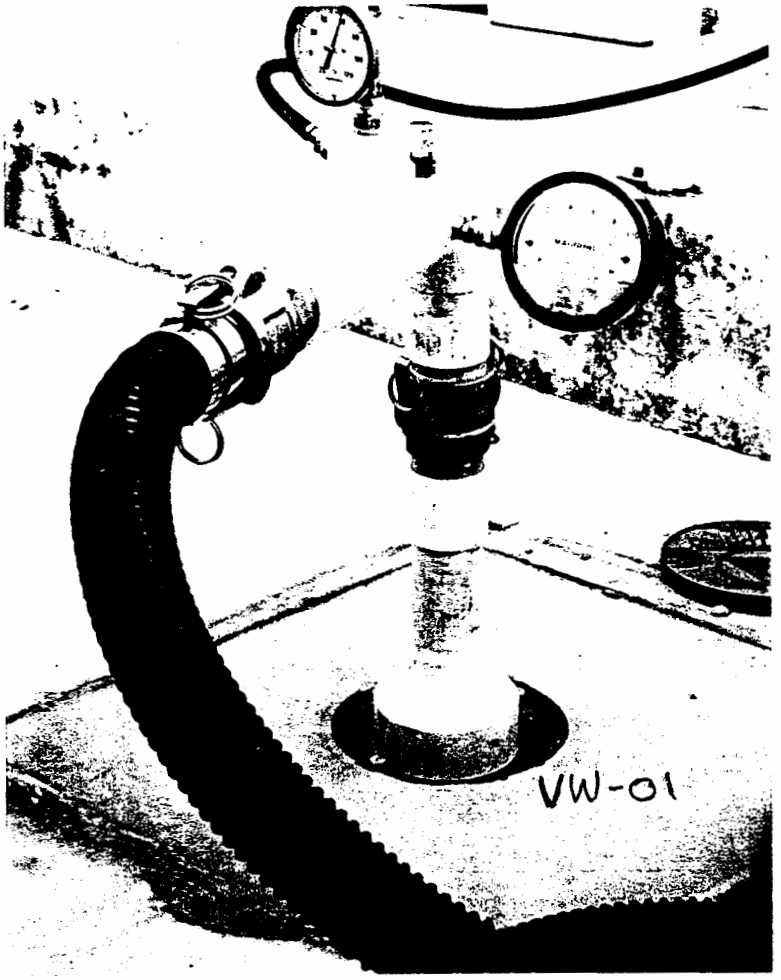
HELSTF TECHNICAL SUPPORT AREA VAPOR WELL LOCATIONS

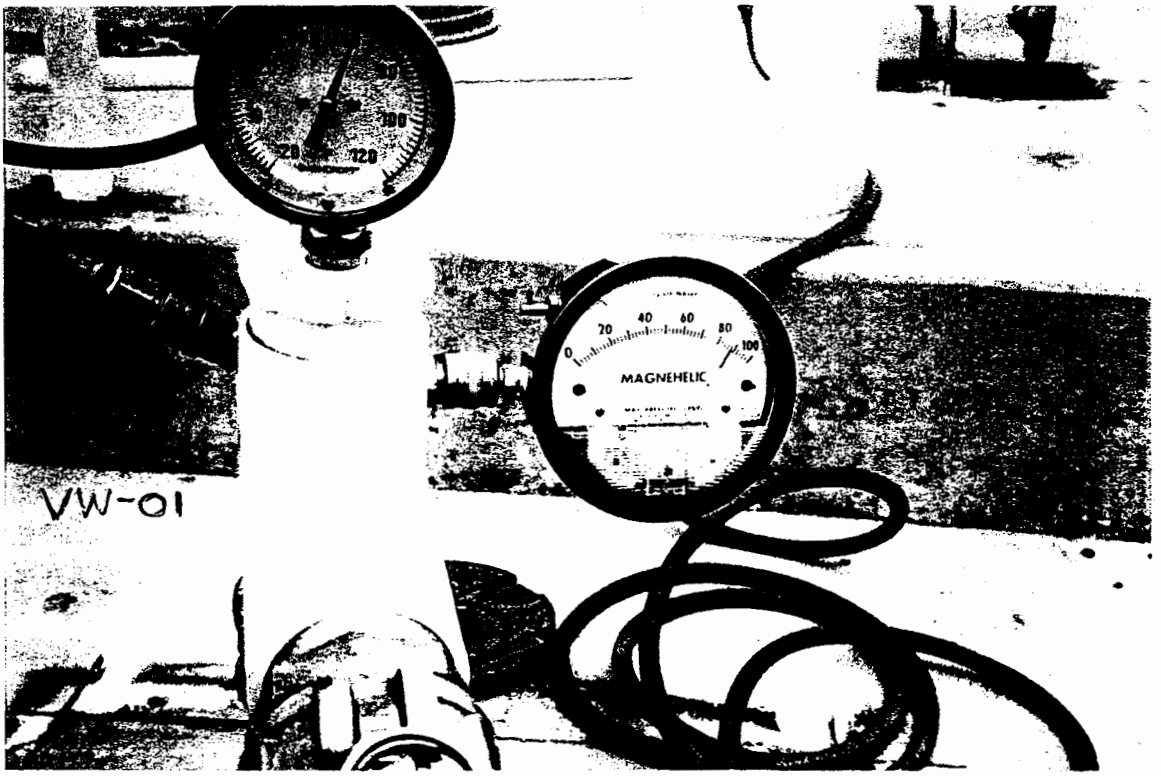
MEVATEC CORPORATION
Bldg. 126, 3rd Floor, P.O. Box 399
White Sands Missile Range, NM 88002
(505)678-0263

HELSTF
WHITE SANDS MISSILE RANGE, NM



HELSTF
WHITE SANDS MISSILE RANGE, NM





APPENDIX L

DAILY SVE SYSTEM OPERATION LOGS

OPERATING DATA - UNIT # T-80126 PAGE # 1

ACUVAC SVE SYSTEM

Location: WHITE SANDS - HELSTE

Technician:

	Date:	10-14-00		10-17-00		10-18-00		10-18-00		10-19-00		10-20-00	
	Parameters	Time 1400 / Hr Meter 5254.0	Initials	Time 1040 / Hr Meter 5254.5	Initials	Time 0953 / Hr Meter 5268.3	Initials	Time 1114 / Hr Meter 5269.5	Initials	Time 0810 / Hr Meter 5290.5	Initials	Time 1426 / Hr Meter 5320.7	Initials
ENGINE / BLOWER	R.P.M.	2000		2000	AOW	System off	AOW	2050		2300		2250	
	Oil Pressure psi	60		50		restart @1000		50		50		52	
	Water Temp °F	160		143				140		130		145	
	Volts	13		13.5				14		14		13.5	
	Intake Vac "Hg	20		17				18		18		18	
	Gas Flow - Fuel Propane/N.G. cfh	140		0				0		0		0	
	Engine Oil - Enter Amt. Added qts	CHANGED OIL + FILTER		NO				No		NO		NO	
ATMOSPHERE / VAPORS / AIR	Dilution Air Flow cfm	40		28				~~20~~23		24		22	
	Extraction Well Flow cfm	N/A		10				10		9		9	
	Extraction Well Vac "H_2O	N/A		45				~~5~~50		50		50	
	Influent Vapor Temp °F	—		60				—		—		—	
	Air Temp °F	84		73				75		65		78	
	Barometric Pressure "Hg	30.01		—				—		—		—	
MANIFOLD / EFFLUENT	Exhaust Gas Temperature °F	900		1000				1000		1000		950	
	Blower Discharge Temperature °F	—		—				—		—		—	
	Other - INITIALS							AOW		DEE		AOW	
	SVE On/Off	OFF		ON		OFF		ON		ON		ON	
	Air/Injection On/Off	N/A		—				—		—		—	
	Air Injection Pressure psi	N/A		—				—		—		—	
	Air Injection Flow cfm	N/A		—				—		—		—	
	Samples			HORIBA SAMPLE		—				—		—	

Lab Sample (well + exhaust)

DATE	OPERATING DATA AND NOTES
10-14-00	CHANGED OIL + FILTER - BLOWER OIL - GREASE ZERTS - NEW SPARK PLUGS - CHECK SYSTEM
10-17-00	START UP / TRAINING - Blended in well flow - Take 3 Lab* samples (well + exhaust)
10-18-00	System off upon arrival @ 0953 . Restart engine . Estimated shutoff time 2230 hrs.
10-19	System on Reset RPM to 2100
10-20-00	System on, turn RPM down to ≈ 2100 rpm

OPERATING DATA - UNIT # T-80126C PAGE # 2

ACUVAC SVE SYSTEM

Location: Technician:

	Date:	10-23-00		10-24-00		10-25-00		10-26-00		10/27/00		10/27/0	
	Parameters	Time 1018 / Hr Meter 5342.4	Initials	Time 0745 / Hr Meter 5363.8	Initials	Time 0750 / Hr Meter 5387.6	Initials	Time 0800 / Hr Meter 5411.6	Initials	Time 1456 / Hr Meter 5413.5	Initials	Time 1703 / Hr Meter 5439.3	Initials
ENGINE / BLOWER	R.P.M.	2150		2150		2150		2150		2100		2150	
	Oil Pressure psi	52		54		53		52		52		51	
	Water Temp °F	130		130		130		128		150		140	
	Volts	14		13.5		13.5		13.5		13.5		13.5	
	Intake Vac "Hg	18		18		18		17		18		17	
	Gas Flow - Fuel Propane/N.G. cfh	Ø		Ø		Ø		Ø		Ø		Ø	
	Engine Oil - Enter Amt. Added qts	No		No		No		No		Change oil + Filter		No	
ATMOSPHERE / VAPORS / AIR	Dilution Air Flow cfm	23		25		21		23		20		23	
	Extraction Well Flow cfm	7		8		8.5		10.5		9		10	
	Extraction Well Vac "H_2O	40		45		47		62		45		47	
	Influent Vapor Temp °F	—		—		—		—		—		—	
	Air Temp °F	60		50		50		50		70		78	
	Barometric Pressure "Hg	—		—		—		—		—		—	
MANIFOLD / EFFLUENT	Exhaust Gas Temperature °F	1000		1050		1100		1100		1000		1025	
	Blower Discharge Temperature °F	—		—		—		—		—		—	
	Other Initials	SFW		EJA		CFW		SFW		SFW		SFW	
	SVE On/Off	OFF upon arrival		ON upon arrival		ON		ON		OFF		ON	
	Air/Injection On/Off	—		—		—		—		—		—	
	Air Injection Pressure psi	—		—		—		—		—		—	
	Air Injection Flow cfm	—		—		—		—		—		—	
	Samples	—		—		2L for Hall Env.		—		—		2L for Hall Env.	

DATE	OPERATING DATA AND NOTES
10/23/00	SVE off upon arrival. Restart @ 1018. Water/Gas in hose to well, drained
10/24/00	SVE on upon arrival. Drained liquid from hose.
10/25/00	SVE on upon arrival. Drained mostly H_2O from intake hose.
10/26/00	SVE on upon arrival. Drained mostly H_2O from intake hose.
10/26/00	SVE off upon arrival. Too much liquid in well?? Changed oil + restarted.
10/27/00	SVE on upon arrival. Did pump test. Removed 3.5 gal gas + 2.5 gal H_2O. Set SVE for

OPERATING DATA - UNIT # T-80126c PAGE # 3

ACUVAC SVE SYSTEI

Location:

Technician:

	Date:	10/30/00		10/31/00		10/31/00		11/1/00		11/1/00		11/1/00	
	Parameters	Time 1100 / Hr Meter 5470.9	Initials	Time 0815 / Hr Meter 5482.0	Initials	Time 1603 / Hr Meter 5490.1	Initials	Time 0645 / Hr Meter 5504.6	Initials	Time 0715 / Hr Meter 5505.1	Initials	Time 1507 / Hr Meter 5512.9	Initials
ENGINE / BLOWER	R.P.M.	1950		2100		2000		1625		1800		1750	
	Oil Pressure psi	52		50		52		52		52		51	
	Water Temp °F	131		130		130		128		128		135	
	Volts	13		13		14		14		14		13.5	
	Intake Vac "Hg	16.5		17		18		17		18.5		18.5	
	Gas Flow - Fuel Propane/N.G. cfh	Ø		Ø		Ø		Ø		Ø		Ø	
	Engine Oil - Enter Amt. Added qts	No		No		No		No		No		No	
ATMOSPHERE / VAPORS / AIR	Dilution Air Flow cfm	22		20		<18		8		zero in of water		<18	
	Extraction Well Flow cfm	12		12		14		13		13.5		13.5	
	Extraction Well Vac "H_2O	60		70		60		65		63		63	
	Influent Vapor Temp °F	—		—		—		—		—		—	
	Air Temp °F	65		60		60		40		40		70	
	Barometric Pressure "Hg	—		—		—		—		—			
MANIFOLD / EFFLUENT	Exhaust Gas Temperature °F	1060		1050		1050		1075		1950		950	
	Blower Discharge Temperature °F	—		—		—		—		—		—	
	Other Initials	CFW		GAT		AMW		CFW		CFW		AGM	
	SVE On/Off	off on arrival		off on Arrival		ON @ 1500		on at arrival				ON	
	Air/Injection On/Off	—		—		—		—		—		—	
	Air Injection Pressure psi	—		—		—		—		—		—	
	Air Injection Flow cfm	—		—		—		—		—		—	
	Samples	2L tedlar for Hall		—		—		—		—		—	

DATE	OPERATING DATA AND NOTES
10/30/00	SVE off at 5468.9 hrs. Drained neg. H_2O from hose, ½ gallon from knockout. Well vac. high
10/31/00	SVE was off at 5482.0 hrs.
11/1/00	SVE running at high vacuum. AM cranked to 1800 RPM by adding well flow. (63 in @ 0715).

OPERATING DATA - UNIT # T-80/26C PAGE # 4

ACUVAC SVE SYSTEM

Location: Technician:

	Date:	11/01/00		11/02/00		11/2/00		11/2/00		11/3/00		11/3/00	
	Parameters	Time 1534 / Hr Meter 5513.4	Initials	Time 0847 / Hr Meter 5523.6	Initials	Time 1505 / Hr Meter 5530.6	Initials	Time 1620 / Hr Meter 5531.6	Initials	Time 0917 / Hr Meter 5535.1	Initials	Time 1428 / Hr Meter 5540.8	Initials
ENGINE / BLOWER	R.P.M.	2000		1950		1790		2010		2000		2100	
	Oil Pressure psi	50		50		52		53		53		53	
	Water Temp °F	130		132		140		132		133		154	
	Volts	13		13		13.5		13.5		13.5		13.5	
	Intake Vac "Hg	17		18		17		17		17		18	
	Gas Flow - Fuel Propane/N.G. cfh	Ø		Ø		Ø		30		30		30	
	Engine Oil - Enter Amt. Added qts	No		No		NO		No		No		No	
ATMOSPHERE / VAPORS / AIR	Dilution Air Flow cfm	18		18		20		22		25		18	
	Extraction Well Flow cfm	13.5		14		14		11		11.5		12	
	Extraction Well Vac "H_2O	65		76		80		54		58		60	
	Influent Vapor Temp °F	—		—		—		—		—		—	
	Air Temp °F	70		43		71		66		54		65	
	Barometric Pressure "Hg	—		—		—		—		—		—	
MANIFOLD / EFFLUENT	Exhaust Gas Temperature °F	1050		1100		1050		1050		1100		1050	
	Blower Discharge Temperature °F	—		—		—		—		—		—	
	Other Initials	AGM		AGM		CFW		CFW		AGM		AN	
	SVE On/Off	ON		OFF on Arrival		ON since a.m.		restart		OFF on Arrival		ON upon arrival	
	Air/Injection On/Off	—		—		—		—		—		—	
	Air Injection Pressure psi	—		—		—		—		—		—	
	Air Injection Flow cfm	—		—		—		—		—		—	
	Samples	—		—		—		—		—		—	

DATE	OPERATING DATA AND NOTES
11/01/00	SVE Adjusted to 2000 RPM
11/02/00	SVE off. Restarted.
11/02/00	P.M. running - high vac., bleed-in 30 cfh propane at 2000 RPM, vac down to 54 in in well.
11/03/00 am	SVE off - Raw 3.5 Hg - used ½ Tank propane, switched to MEVATEC propane tu
11/03/00 pm	SVE ON - pumped fluids from well (1/4 gal gas).

Location: Technician:

	Date:	11-5-00		11/06/00		11-6-00		11-7-00		11-7-00		11-7-00	
	Parameters	Time 1256 / Hr Meter 5572.6	Initials	Time 1111 / Hr Meter 5572.6	Initials	Time 1612 / Hr Meter 5577.7	Initials	Time 0905 / Hr Meter 5594.5	Initials	Time 1005 / Hr Meter 5595.0	Initials	Time 1610 / Hr Meter 5601.0	Initials
ENGINE / BLOWER	R.P.M.	—		2000		2100		1920		2000		1980	
	Oil Pressure psi	—		52		52		53		54		53	
	Water Temp °F	—		140		130		132		132		129	
	Volts	—		13.5		13.5		13.5		13.5		14	
	Intake Vac "Hg	—		18		18		18		18		17	
	Gas Flow - Fuel Propane/N.G. cfh	—		30		30		38		62		67	
	Engine Oil - Enter Amt. Added qts	—		No		NO		NO		No		No	
ATMOSPHERE / VAPORS / AIR	Dilution Air Flow cfm	—		19		19		19		19		22	
	Extraction Well Flow cfm	—		11.5		11.0		11		9		9	
	Extraction Well Vac "H_2O	—		61		58		82		62		65	
	Influent Vapor Temp °F	—		—		—		—		—		—	
	Air Temp °F	—		50		49		48		48		34	
	Barometric Pressure "Hg	—		—		—		—		—		—	
MANIFOLD / EFFLUENT	Exhaust Gas Temperature °F	—		1100		1100		1100		1050		1100	
	Blower Discharge Temperature °F	—		—		—		—		—		—	
	Other Initials	—		ASM		ASM		CFW		CFW		CFW	
	SVE On/Off	OFF		Restart. ON		System ON		SYS ON		ON		ON	
	Air/Injection On/Off	—		—		—		—		—		—	
	Air Injection Pressure psi	—		—		—		—		—		—	
	Air Injection Flow cfm	—		—		—		—		—		—	
	Samples	✓		—		—		—		—		—	

DATE	OPERATING DATA AND NOTES
11-5-00	System off. Took propane tanks to office for refill.
11-6-00	Hook-up 100 lb Tank propane - Restart SVE
11-6-00	System on.
11-7-00	am SVE ON. rain storm overnight continuing
11-7-00	pm SVE ON. turned to snow switch propane tanks and restart

Location: Technician:

	Parameters	Date: 11/08/00 Time 1420 Hr Meter 5610.0	Initials	11/13/00 Time 1422 Hr Meter 5611.6	Initials	11/14/00 Time 1437 Hr Meter 5638.6	Initials	11/15/00 Time 1240 Hr Meter 5649.5	Initials	11/16/00 Time 1608 Hr Meter 5666.0	Initials	11/17 Time 1120 Hr Meter 5666.0	Initials
ENGINE / BLOWER	R.P.M.	—		2100		2000		2000		—		2000	
	Oil Pressure psi	—		54		53		55		—		55	
	Water Temp °F	—		140		132		130		—		130	
	Volts	—		13.8		13.8		13.8		—		13.8	
	Intake Vac "Hg	—		18		17.5		18		—		17.8	
	Gas Flow - Fuel Propane/N.G. cfh	—		40		40		40		—		~~50~~ 45	JR
	Engine Oil - Enter Amt. Added qts	Change 5 qts		—		—		—		—		—	
ATMOSPHERE / VAPORS / AIR	Dilution Air Flow cfm	—		20		19		19		—		18	
	Extraction Well Flow cfm	—		11		10.5		11.5		—		11.5	
	Extraction Well Vac "H_2O	—		55		56		62		—		58	
	Influent Vapor Temp °F	—		—		—		—		—		—	
	Air Temp °F	—		65		55		55		—		50	
	Barometric Pressure "Hg	—		—		—		—		—		—	
MANIFOLD / EFFLUENT	Exhaust Gas Temperature °F	—		1050		1030		1050		—		1050	
	Blower Discharge Temperature °F	—		—		—		—		—		—	
	Other Initial	AGM		GOW		GOW		GOW		GOW		GOW	
	SVE On/Off	OFF		OFF, Started @ 1415		OFF, restarted		ON		OFF		OFF	
	Air/Injection On/Off	—		—		—		—		—		—	
	Air Injection Pressure psi	—		—		—		—		—		—	
	Air Injection Flow cfm	—		—		—		—		—		—	
	Samples	—		—		2-Hall 2-Sadler		—		—		—	

DATE	OPERATING DATA AND NOTES
11/8/00	SVE off - move over to HUMOY - Change & filter oil - add Antifreeze
11/13/00	SVE off over long weekend. Restart in HUMOY @ 1415 hrs
11/14/00	SVE off @ 0730, line full of H_2O, drained, restarted, called 2 samples (1-Hall, 1-Acuv
11/15/00	SVE on upon arrival @ 1100, System ok, changed gas tanks
11/16/00	SVE off, tanks empty, refill tanks tomorrow
11/17/00	Pulled Pump for [illegible]

Location: Technician:

	Date:	11/20/00		11/21/00		11/22/00		11/24/00		11/24/00		11/27/00	
	Parameters	Time 0900 / Hr Meter 5617.5	Initials	Time 1443 / Hr Meter 5706.8	Initials	Time 12:10 / Hr Meter 5707.1	Initials	Time 11:00 / Hr Meter 5723.7	Initials	Time 1:45 / Hr Meter 5724.0	Initials	Time 0625 / Hr Meter 5765.0	Initials
ENGINE / BLOWER	R.P.M.	2000		—		2000		—		2000		—	
	Oil Pressure psi	55		—		54		—		54		—	
	Water Temp °F			—		130		—		130		—	
	Volts			—		13.5		—		14		—	
	Intake Vac "Hg			—		17		—		18		—	
	Gas Flow - Fuel Propane/N.G. cfh	75		—		42		—		46		—	
	Engine Oil - Enter Amt. Added qts			—		—		—		—		—	
ATMOSPHERE / VAPORS / AIR	Dilution Air Flow cfm	23		—		21		—		18		—	
	Extraction Well Flow cfm	12		—		12		—		11.5		—	
	Extraction Well Vac "H_2O	65		—		60		—		60		—	
	Influent Vapor Temp °F			—		—		—		—		—	
	Air Temp °F	cold!		—		58		—		63		—	
	Barometric Pressure "Hg			—		—		—		—		—	
MANIFOLD / EFFLUENT	Exhaust Gas Temperature °F			—		1060		—		1050			
	Blower Discharge Temperature °F			—		—		—		—			
	Other INITIAL			—		CFW		CFW		CFW		CFW	
	SVE On/Off			OFF		ON		OFF		restart ON		OFF	
	Air/Injection On/Off			—		—		—		—		—	
	Air Injection Pressure psi			—		—		—		—		—	
	Air Injection Flow cfm			—		—		—		—		—	
	Samples			—		—		—		—		—	

DATE	OPERATING DATA AND NOTES
11/20	SVE off, switch propane tank, slush in air line from well.
11/21/00	SVE off, Shut off @ ≈ 1700 hrs on 11/20, took tanks for filling
11/22/00	met Bryan Stegall on-site and connected large tanks (250 gal.).
11/24/00	Propane gone. Bryan S. delivered ~50 gal propane @ 1415.
11/27/00	System off, well froze? Propane gone, waiting refill from Cortez

OPERATING DATA - UNIT # T-80126 PAGE # 8

ACUVAC SVE SYSTEM

Location: Technician:

	Parameters	Date: 11/27/00 Time 1415 Hr Meter 5765.0	Initials	11/27/00 Time 1512 Hr Meter 5766.4	Initials	11/28/00 Time 1327 Hr Meter 5781.5	Initials	11/29/00 Time 0930 Hr Meter 5801.4	Initials	11/29/00 Time 1127 Hr Meter 5801.4	Initials	11/30/ Time 1108 Hr Meter ~~5801.4~~ 5824.9	Initials
ENGINE / BLOWER	R.P.M.	2000		2000		2000		-		1950		2000	
	Oil Pressure psi	55		55		55		-		55		55	
	Water Temp °F	143		143		145		-		140		145	
	Volts	14.0		14		14		-		14		14	
	Intake Vac "Hg	18		18		18		-		18		17.8	
	Gas Flow - Fuel Propane/N.G. cfh	51		55		70		-		75		75	
	Engine Oil - Enter Amt. Added qts	-		-		-		Changed oil		-		-	
ATMOSPHERE / VAPORS / AIR	Dilution Air Flow cfm	18		18		19		-		20		19	
	Extraction Well Flow cfm	9.5		13.5		9.0		-		10.0		10.0	
	Extraction Well Vac "H_2O	68		70		47		-		51		52	
	Influent Vapor Temp °F	-		-		-		-		-		-	
	Air Temp °F	68		68		70		-		65		65	
	Barometric Pressure "Hg	-		-		-		-		-		-	
MANIFOLD / EFFLUENT	Exhaust Gas Temperature °F	1050		950		1040		-		1000		1010	
	Blower Discharge Temperature °F	-		-		-		-		-		-	
	Other Initials	SRW		SRW		SRW		SRW		SRW		SRW	
	SVE On/Off	OFF		ON		OFF		-		ON		ON	
	Air/Injection On/Off	-		-		-		-		-		-	
	Air Injection Pressure psi	-		-		-		-		-		-	
	Air Injection Flow cfm	-		-		-		-		-		-	
	Samples	-		-		-		-		-		2-L for Hall Env.	

DATE	OPERATING DATA AND NOTES
11/27/00	Turned on system @ 1415. Drained knockout tank. Strange liquid from tank [illegible]
11/28/00	Filled propane tanks. System off - Restarted. Drained hose + knockout
11/29/00	Changed oil @ 5801.4 hours + maintenanced system. Restarted.
11/30/00	System on upon arrival. Drained hose, bailed well, drained knockout tank + 2 samples

OPERATING DATA - UNIT # T-80126C PAGE # 9

ACUVAC SVE SYSTEM

Location: Technician:

	Parameters	Date: 12/1/00 Time 0945 Hr Meter 5842.7	Initials	12/4/00 Time 0730 Hr Meter 5913.0	Initials	12/5/00 Time 1415 Hr Meter 5913.3	Initials	12/6/00 Time 0915 Hr Meter 5932.3	Initials	12/6/00 Time 1100 Hr Meter 5932.3	Initials	12/7/00 Time AM Hr Meter 5955.6	Initials
ENGINE / BLOWER	R.P.M.	2000		—		2100		2050		2000		Assume system	
	Oil Pressure psi	55		—		55		55		55		shutdown	
	Water Temp °F	130		—		130		130		132		at 5950 hrs	
	Volts	13.8		—		13.8		13.8		14		tank frozen	
	Intake Vac "Hg	18		—		17.5		17.5		18		+ system	
	Gas Flow - Fuel Propane/N.G. cfh	86		—		72		72		80		running off	
	Engine Oil - Enter Amt. Added qts	—		—		—		—		—		propane only	
ATMOSPHERE / VAPORS / AIR	Dilution Air Flow cfm	20				20		20		21			
	Extraction Well Flow cfm	9.5				14		14		10.5			
	Extraction Well Vac "H_2O	50				70		64		51			
	Influent Vapor Temp °F	—		—		—		—		—			
	Air Temp °F	60		32		65		40		45			
	Barometric Pressure "Hg	—		—		—		—		—			
MANIFOLD / EFFLUENT	Exhaust Gas Temperature °F	1010				1060		1100		1050			
	Blower Discharge Temperature °F	—		—		—		—		—			
	Other Initials	ATW		ATW		CFW		EWA		ATW		ATW	
	SVE On/Off	ON		OFF		ON		ON		ON		OFF	
	Air/Injection On/Off	—		—		—		—		—			
	Air Injection Pressure psi	—		—		—		—		—			
	Air Injection Flow cfm	—		—		—		—		—			
	Samples	—		—		—		—		—			

DATE	OPERATING DATA AND NOTES
12/1/00	SVE on. Bailed well, drained knockout tank + hose. Restarted
12/4/00	SVE frozen
12/5/00	restart SVE. Cleaned knock-out tank (2 gals. 50/50 gas + H_2O)
12/6/00	SVE on - logged readings, serviced system (drained lines/tank) restarted
12/7/00	AM System frozen + sputtering, assume system shut off @ 5950 hrs
12/7/00	Oil change at 5955.6 hrs

OPERATING DATA - UNIT # 7-80126C PAGE # 10

ACUVAC SVE SYSTEM

Location: Technician:

	Parameters	Date: 12/7/00 Time 1415 Hr Meter 5955.8	Initials	12/11/00 Time 1533 Hr Meter 6053.9	Initials	12/11/00 Time 1612 Hr Meter 6053.9	Initials	12/12/00 Time 0725 Hr Meter 6069.3	Initials	12/12/00 Time 1104 Hr Meter 6072.6	Initials	12/13/ Time 0700 Hr Meter 6092.8	Initials
ENGINE / BLOWER	R.P.M.	1900		1700		1900		1775		1950		1950	
	Oil Pressure psi	53		50		55		55		54		55	
	Water Temp °F	150		140		140		120		132		128	
	Volts	14		13.7		14		14		14.1		14	
	Intake Vac "Hg	18		12.8		18		18		18		18	
	Gas Flow - Fuel Propane/N.G. cfh	55		55		75		75		83			
	Engine Oil - Enter Amt. Added qts	20		—		—		—		—		—	
ATMOSPHERE / VAPORS / AIR	Dilution Air Flow cfm	10 (0.06)		10		10 (0.04)		7 (0.04)		10		10 (0.06)	
	Extraction Well Flow cfm	14		14		12.5		12		12.5		12	
	Extraction Well Vac "H_2O	65		58		59		64		58		59	
	Influent Vapor Temp °F	—		—		—		—		—		—	
	Air Temp °F	61		60		60		35		40		36	
	Barometric Pressure "Hg	—		—		—		—		—		—	
MANIFOLD / EFFLUENT	Exhaust Gas Temperature °F	1025		975		1025		1000		1025		1050 ~~1100~~ A	
	Blower Discharge Temperature °F	—		—		—		—		—		—	
	Other Initial	CW		SRW		SRW		EA		SRW		EA	
	SVE On/Off	restart ON		System Still on		ON		ON		ON		ON	
	Air/Injection On/Off	—		—		—		—		—		—	
	Air Injection Pressure psi	—		—		—		—		—		—	
	Air Injection Flow cfm	—		—		—		—		—		—	
	Samples	—		—		—		—		—		—	

Scheduled Maintenance

System Running

Left 0725

Left

DATE	OPERATING DATA AND NOTES
12/7	change oil + restart
12/11	System on since Thursday, turned off, drained lines, bailed well, restarted
12/12	System on since ~~today~~ Monday SRW " " " "
12/13	System on since restart on Tues, turned off, drained lines, bailed well, restarted

OPERATING DATA - UNIT # T-S01266 PAGE # 11

ACUVAC SVE SYSTEM

Location: Technician:

	Parameters	Date: 12/13/00 Time 0730 Hr Meter 6093.0	Initials	12/13/00 Time 1020 Hr Meter 6095.5	Initials	12/14/00 Time 1027 Hr Meter 6120.0	Initials	12/14/00 Time 1117 Hr Meter 6120.0	Initials	12/15/00 Time 1550 Hr Meter 6148.8	Initials	12/18/00 Time 1200 Hr Meter 6148.8	Initials
ENGINE / BLOWER	R.P.M.	2000		2000		1925		~~1500~~ 1700		1775		2000	
	Oil Pressure psi	54		53		53		55		52		55	
	Water Temp °F	130		130		130		130		143		125	
	Volts	14		14		14		14		14		14.1	
	Intake Vac "Hg	18		18		18		18		18		18	
	Gas Flow - Fuel Propane/N.G. cfh	90		84		83		85		73		95	
	Engine Oil - Enter Amt. Added qts	—		—		—		—		—		~~14.5~~ gal	
ATMOSPHERE / VAPORS / AIR	Dilution Air Flow cfm	10 (0.00)		10		10		10		8 (0.05)		12	
	Extraction Well Flow cfm	13		14.5		14.5		14		14		15	
	Extraction Well Vac "H_2O	60		61		61		61		56		61	
	Influent Vapor Temp °F	~~38~~ A		—		—		—		—		—	
	Air Temp °F	38		45		50		53		62		50	
	Barometric Pressure "Hg	—		—		—		—		—		—	
MANIFOLD / EFFLUENT	Exhaust Gas Temperature °F	1050		1025		1050		1025		980		1000	
	Blower Discharge Temperature °F	—		—		—		—		—		—	
	Other initials	EWA		AFW		AFW		AFW		CFW		AFW	
	SVE On/Off	ON		ON		ON		ON		ON		OFF / restarted	
	Air/Injection On/Off	—		—		—		—		—		—	
	Air Injection Pressure psi	—		—		—		—		—		—	
	Air Injection Flow cfm	—		—		—		—		—		—	
	Samples	—		3-L for Hall 4-L for AcuVac		—		—		—		—	

Meter broken

Lost data

Lost data

DATE	OPERATING DATA AND NOTES
12/13/00	Weatherson collected air samples for Hall + AcuVac, adjusted settings + logged in
12/14/00	System on, cleaned here + well + tank, restarted
12/15/00	shut down SVE at 6148.9
12/18/00	Changed oil + restarted engine

OPERATING DATA - UNIT # T80126C PAGE # 12

ACUVAC SVE SYSTEM

Location: Technician:

	Parameters	Date: 12/19/00 Time 1003 Hr Meter 6171.3	Initials	12/19/00 Time 1034 Hr Meter 6171.3	Initials	12/20/00 Time 1043 Hr Meter 6195.5	Initials	12/20/00 Time 1124 Hr Meter 6195.5	Initials	12/21/00 Time 1305 Hr Meter 6218.1	Initials	12/28 Time 1117 Hr Meter 6218.1	Initials
ENGINE / BLOWER	R.P.M.	1770		1900		1725		2000		—		2000	
	Oil Pressure psi	51		54		50		55		—		55	
	Water Temp °F	132		130		130		135		—		130	
	Volts	14		14.1		13.9		14		—		14	
	Intake Vac "Hg	17.5		18		17		18		—		18	
	Gas Flow - Fuel Propane/N.G. cfh	70		78		65		84		—		115	
	Engine Oil - Enter Amt. Added qts	—		—		—		0.5 gal		—		—	
ATMOSPHERE / VAPORS / AIR	Dilution Air Flow cfm	10		10		8		10		—		8	
	Extraction Well Flow cfm	15		15.5		15		16		—		14	
	Extraction Well Vac "H_2O	61		70		69		70		—		60	
	Influent Vapor Temp °F	—		—		—		—		—		—	
	Air Temp °F	45		45		45		50		—		50	
	Barometric Pressure "Hg	—		—		—		—		—		—	
MANIFOLD / EFFLUENT	Exhaust Gas Temperature °F	1075		1000		1025		1050		—		1075	
	Blower Discharge Temperature °F	—		—		—		—		—		—	
	Other Initials	SRW		SRW		SRW		SRW		SRW			
	SVE On/Off	ON		ON		ON		ON		OFF		off-pneumatic ~~OFF~~	
	Air/Injection On/Off	—		—		—		—		—		—	
	Air Injection Pressure psi	—		—		—		—		—		—	
	Air Injection Flow cfm	—		—		—		—		—		—	
	Samples											—	

DATE	OPERATING DATA AND NOTES
12/19/00	System on, drained hose + tank, bailed well, restarted
12/20/00	System on, both 250 gal tanks @ 0%, added .5 gal oil, drained lines/tank, ...
	↳ switched to 100 lb tank
12/21/00	System off @ ≈ 1000 hrs, drained tank, No LP gas to restart system
12/28/00	Filled LP tanks, restarted system

OPERATING DATA - UNIT # T80126C PAGE # 13

ACUVAC SVE SYSTEM

Location:

Technician:

	Date:	12/25/00		1/11/01		1/12/01		1/12/01		1/16/01		1/16/01	
	Parameters	Time 1108 / Hr Meter 6232.7	Initials	Time 1338 / Hr Meter 6232.8	Initials	Time 1251 / Hr Meter 6256.0	Initials	Time 1330 / Hr Meter 6256.0	Initials	Time 1050 / Hr Meter 6349.9	Initials	Time 1140 / Hr Meter 6349.9	Initials
ENGINE / BLOWER	R.P.M.	—		~~1975~~ 2000		2050		2000		1825		2000	
	Oil Pressure psi	—		55		52		52		51		54	
	Water Temp °F	—		125		132		130		132		130	
	Volts	—		13.8		14		13.8		14		14	
	Intake Vac "Hg	—		18		18		18		17.8		18	
	Gas Flow - Fuel Propane/N.G. cfh	—		85		85		82		82		85	
	Engine Oil - Enter Amt. Added qts	—		oil change		—		—		—		—	
ATMOSPHERE / VAPORS / AIR	Dilution Air Flow cfm	—		16		16		16		16		12	
	Extraction Well Flow cfm	—		13		13		13.5		??		15	
	Extraction Well Vac "H_2O	—		60		55		58		55		62	
	Influent Vapor Temp °F	—		—		—		—		—		—	
	Air Temp °F	—		55		55		55		45		50	
	Barometric Pressure "Hg	—		—		—		—		—		—	
MANIFOLD / EFFLUENT	Exhaust Gas Temperature °F	—		1040		1040		1000		1050		1000	
	Blower Discharge Temperature °F	—		—		—		—		—		—	
	Other Initials	ATW		ATW		ATW		ATW		ATW		ATW	
	SVE On/Off	OFF		~~OFF~~ ON		ON		ON		ON		ON	
	Air/Injection On/Off	—		—		—		—		—		—	
	Air Injection Pressure psi	—		—		—		—		—		—	
	Air Injection Flow cfm	—		—		—		—		—		—	
	Samples	—		—		—		—		—		—	

DATE	OPERATING DATA AND NOTES
12/25/00	System off due to low oil pressure. Drained tank + line. Left system off.
1/11/01	System returned to site. Turned on. During repair checks greased zerks, + changed oil, changed plugs, + tuned engine.
1/12/01	System on upon arrival. Drained tank, hose, + well. Restarted
1/16/01	System on upon arrival. Drained tank, hose, + well. Restarted

OPERATING DATA - UNIT # T80126 PAGE # 14

ACUVAC SVE SYSTE

Location:

Technician:

	Parameters	Date: 1/17/01		1/17/01		1/18/01		1/18/01		1/22/01		1/22/01	
		Time 0940 / Hr Meter 6372.1	Initials	Time 1000 / Hr Meter 6372.1	Initials	Time 1315 / Hr Meter 6399.5	Initials	Time 1400 / Hr Meter 6399.5	Initials	Time 1330 / Hr Meter 6455.4	Initials	Time 1500 / Hr Meter 6455.4	Initials
ENGINE / BLOWER	R.P.M.	1750		1900		2000		2000		2000		2000	
	Oil Pressure psi	52		54		52		54		52		55	
	Water Temp °F	130		128		130		130		130		130	
	Volts	14		14		14		14.1		14		14	
	Intake Vac "Hg	18		18		18		18.1		19		18.5	
	Gas Flow - Fuel Propane/N.G. cfh	85		90		90		95		95		100	
	Engine Oil - Enter Amt. Added qts	—		—		—		—		—		5.0 qt	
ATMOSPHERE / VAPORS / AIR	Dilution Air Flow cfm	12	Maintenance	10		10	Maintenance	10		10	Maintenance	10	
	Extraction Well Flow cfm	??		15.5		16.5		14		??		14.5	
	Extraction Well Vac "H_2O	42		62		67		59		59		53	
	Influent Vapor Temp °F	—		—		—		—		—		—	
	Air Temp °F	30		30		40		40		48		50	
	Barometric Pressure "Hg	—		—		—		—		—		—	
MANIFOLD / EFFLUENT	Exhaust Gas Temperature °F	1050		1050		1075		1100		1050		1050	
	Blower Discharge Temperature °F	—		—		—		—		—		—	
	Other Initials	AW		AW		AW		AW		AW		AW	
	SVE On/Off	ON		ON		ON		ON		ON		ON	
	Air/Injection On/Off	—		—		—		—		—		—	
	Air Injection Pressure psi	—		—		—		—		—		—	
	Air Injection Flow cfm	—		—		—		—		—		—	
	Samples	—		—		—		—		—		—	

DATE	OPERATING DATA AND NOTES
1/17/01	System running upon arrival. Drained hose & well. Tank frozen.
1/18/01	System still on. Drained lines, tank, & well. Took water/product containers to 400 [illegible] site. Restarted system.

OPERATING DATA - UNIT # I-80126C PAGE # 15

ACUVAC SVE SYSTEI

Location: Technician:

	Parameters	Date: 1/23/01 Time 1344 Hr Meter 6518.3	Initials	1/23/01 Time 1407 Hr Meter 6518.3	Initials	1/24/01 Time 1156 Hr Meter 6540.5	Initials	1/24/01 Time 1210 Hr Meter 6540.5	Initials	1/25/01 Time 1415 Hr Meter 6566.6	Initials	1/25/01 Time 1425 Hr Meter 6566.6	Initials
ENGINE / BLOWER	R.P.M.	2100		2000		1975		2000		1950		2000	
	Oil Pressure psi	53		55		51		52		51		52	
	Water Temp °F	132		130		132		130		132		132	
	Volts	14		14		13.8		14		14		14	
	Intake Vac "Hg	18		18		18		18		18		18	
	Gas Flow - Fuel Propane/N.G. cfh	100		95		95		95		95		100	
	Engine Oil - Enter Amt. Added qts	—		—		—		—		—		—	
ATMOSPHERE / VAPORS / AIR	Dilution Air Flow cfm	12		12		10		10		10		10	
	Extraction Well Flow cfm	14.5		14		14		14.5		14		14	
	Extraction Well Vac "H_2O	63		64		62		67		64		65	
	Influent Vapor Temp °F	—		—		—		—		—		—	
	Air Temp °F	53		55		60		60		55		55	
	Barometric Pressure "Hg	—		—		—		—		—		—	
MANIFOLD / EFFLUENT	Exhaust Gas Temperature °F	1075		1050		1050		1050		1025		1050	
	Blower Discharge Temperature °F	—		—		—		—		—		—	
	Other Intake	STW		STW		STW		STW		STW		STW	
	SVE On/Off	ON		ON		ON		ON		ON		ON	
	Air/Injection On/Off	—		—		—		—		—		—	
	Air Injection Pressure psi	—		—		—		—		—		—	
	Air Injection Flow cfm	—		—		—		—		—		—	
	Samples	—		—		4L - AWL 3L - Hall		←		—		—	

Maintenance performed

DATE	OPERATING DATA AND NOTES
1/23/01	System on, baked well, drained hose & tank, restarted
1/24/01	"
1/25/01	"

OPERATING DATA - UNIT # I-80126C PAGE # 16

ACUVAC SVE SYSTEM

Location:

Technician:

	Parameters	Date: ~~1/26/01~~ 1/26/01		1/26/01		1/26/01		1/26/01		1/30/01		1/30/01	
		Time 1350 / Hr Meter 6590.2	Initials	Time 1410 / Hr Meter 6590.2	Initials	Time 1350 / Hr Meter 6662.0	Initials	Time 1430 / Hr Meter 6662.0	Initials	Time 1420 / Hr Meter 6686.3	Initials	Time 1350 / Hr Meter 6686.3	Initials
ENGINE / BLOWER	R.P.M.	1975		2000		2000		2000		1975		2000	
	Oil Pressure psi	52		52		52		52		52		55	
	Water Temp °F	134		130		130		130		132		132	
	Volts	14		14		14		14		14		14	
	Intake Vac "Hg	18		18		18		18		18		18	
	Gas Flow - Fuel Propane/N.G. cfh	100		104		104		100		100		107	
	Engine Oil - Enter Amt. Added qts	—		—		—		—		—		5.0 gal	
ATMOSPHERE / VAPORS / AIR	Dilution Air Flow cfm	10		10		10		10		10		10	
	Extraction Well Flow cfm	14		14		~~14~~ 13.5		14		14		14.5	
	Extraction Well Vac "H_2O	62		62		~~62~~ 67		63		63		67	
	Influent Vapor Temp °F	—		—		—		—		—		—	
	Air Temp °F	60		60		50		50		50		50	
	Barometric Pressure "Hg	—		—		—		—		—		—	
MANIFOLD / EFFLUENT	Exhaust Gas Temperature °F	1025		1025		1050		1050		1025		1050	
	Blower Discharge Temperature °F	—		—		—		—		—		—	
	Other Initials	SRW		SRW		SRW		SRW		SRW		SRW	
	SVE On/Off	ON		ON		ON		ON		ON		ON	
	Air/Injection On/Off	—		—		—		—		—		—	
	Air Injection Pressure psi	—		—		—		—		—		—	
	Air Injection Flow cfm	—		—		—		—		—		—	
	Samples	—		—		—		—		—		—	

Maintenance performed

DATE	OPERATING DATA AND NOTES
1/26/01	System on upon arrival. Drained well, tank, & heater. Restarted system
1-30-01	changed oil

OPERATING DATA - UNIT # I-80126 PAGE # 17

ACUVAC SVE SYSTE

Location: Technician:

	Parameters	Date: 2/1/01 Time 0930 Hr Meter 6775.8	Initials	2/1/01 Time 0945 Hr Meter 6775.8	Initials	2/5/01 Time 1315 Hr Meter 6828.4	Initials	2/5/01 Time 1340 Hr Meter 6828.4	Initials	2/7/01 Time 1357 Hr Meter 6876.9	Initials	2/7/01 Time 1445 Hr Meter 6876.9	Initials
ENGINE / BLOWER	R.P.M.	2050		2000		2000		2000		2000		2000	
	Oil Pressure psi	52		52		51		51		51		50	
	Water Temp °F	130		130		132		132		140		130	
	Volts	14		14		14		14		13.8		14	
	Intake Vac "Hg	18		18		18		18		18		18	
	Gas Flow - Fuel Propane/N.G. cfh	107		111		111		105		105		107	
	Engine Oil - Enter Amt. Added qts	—		—		—		—		—		5.0 qt	
ATMOSPHERE / VAPORS / AIR	Dilution Air Flow cfm	10		10		10		10		10		10	
	Extraction Well Flow cfm	15		135		??		15		14.5		15	
	Extraction Well Vac "H_2O	67		62		58		66		67		68	
	Influent Vapor Temp °F	—		—		—		—		—		—	
	Air Temp °F	40		40		60		60		60		60	
	Barometric Pressure "Hg	—		—		—		—		—		—	
MANIFOLD / EFFLUENT	Exhaust Gas Temperature °F	1050		1050		1025		1050		1050		1050	
	Blower Discharge Temperature °F	—		—		—		—		—		—	
	Other Initials	JTW		JTW		JTW		JTW		JTW		JTW	
	SVE On/Off	ON		ON		ON		ON		ON		ON	
	Air/Injection On/Off	—		—		—		—		—		—	
	Air Injection Pressure psi	—		—		—		—		—		—	
	Air Injection Flow cfm	—		—		—		—		—		—	
	Samples	—		—		—		—		—		—	

DATE	OPERATING DATA AND NOTES
2-7-01	changed oil

Location: Technician:

	Date:	2/9/01		2/9/01		2/12/01		2/12/01		2/13/01		2/15/	
	Parameters	Time 1104 / Hr Meter 6921.3	Initials	Time 1122 / Hr Meter 6921.3	Initials	Time 1157 / Hr Meter 6994.0	Initials	Time 1215 / Hr Meter 6994.0	Initials	Time 1005 / Hr Meter 7015.9	Initials	Time 1222 / Hr Meter 7066.3	Initials
ENGINE / BLOWER	R.P.M.	2050		2000		2000		2000		2000		1975	
	Oil Pressure psi	51		51		51		51		51		51	
	Water Temp °F	132		130		130		130		130		130	
	Volts	14		14		13.8		14		13.8		13.9	
	Intake Vac "Hg	18		18		18		18		18		18	
	Gas Flow - Fuel Propane/N.G. cfh	107		108		108		108		108		108	
	Engine Oil - Enter Amt. Added qts	—		—		—		—		—		—	
ATMOSPHERE / VAPORS / AIR	Dilution Air Flow cfm	10		10		10		10		10		10	
	Extraction Well Flow cfm	15		14.5		14.5		15		13.5		??	
	Extraction Well Vac "H_2O	72		68		67		67		68		71	
	Influent Vapor Temp °F	—		—		—		—		—		—	
	Air Temp °F	50		50		50		50		40		55	
	Barometric Pressure "Hg	—		—		—		—		—		—	
MANIFOLD / EFFLUENT	Exhaust Gas Temperature °F	1100		1025		1025		1025		1025		1025	
	Blower Discharge Temperature °F	—		—		—		—		—		—	
	Other Inspects	SPW		SPW		SPW		SPW		SPW		SPW	
	SVE On/Off	ON		ON		ON		ON		ON		ON	
	Air/Injection On/Off	—		—		—		—		—		—	
	Air Injection Pressure psi	—		—		—		—		—		—	
	Air Injection Flow cfm	—		—		—		—		—		—	
	Samples	—		—		3-L Hc V 4-L Aqueous		—		—		—	

DATE	OPERATING DATA AND NOTES
2-13-01	Received 407.5 gal propane

OPERATING DATA - UNIT # I-80126c PAGE # 19

ACUVAC SVE SYSTEM

Location: Technician:

	Date:	2-15-01		2-20-01		2-20-01		2-21-01		2-21-01		2-24-01	
	Parameters	Time 1300 / Hr Meter 7066.3	Initials	Time 1111 / Hr Meter 7184.6	Initials	Time 1129 / Hr Meter 7184.6	Initials	Time 1124 / Hr Meter 7208.6	Initials	Time 1440 / Hr Meter 7211.0	Initials	Time 0901 / Hr Meter 7277.4	Initials
ENGINE / BLOWER	R.P.M.	2000		2000		2000		2000		2000		2000	
	Oil Pressure psi	55		52		52		52		55		53	
	Water Temp °F	130		130		130		130		130		130	
	Volts	14		14		14		14		14		14	
	Intake Vac "Hg	18		18		18		18		18		18	
	Gas Flow - Fuel Propane/N.G. cfh	110		110		110		110		115		115	
	Engine Oil - Enter Amt. Added qts	5.0 g.l		—		—		—		—		—	
ATMOSPHERE / VAPORS / AIR	Dilution Air Flow cfm	10		10		10		10		10		10	
	Extraction Well Flow cfm	15		15		15		14.5		14		14.5	
	Extraction Well Vac "H_2O	72		71		71		72		66		70	
	Influent Vapor Temp °F	—		—		—		—		—		—	
	Air Temp °F	55		60		60		65		65		50	
	Barometric Pressure "Hg	—		—		—		—		—		—	
MANIFOLD / EFFLUENT	Exhaust Gas Temperature °F	1050		1050		1025		1050		1050		1090	
	Blower Discharge Temperature °F	—		—		—		—		—		—	
	Other Intake	CFW		CFW		CFW		CFW		CFW		CFW	
	SVE On/Off	ON		ON		ON		ON		ON		ON	
	Air/Injection On/Off	—		—		—		—		—		—	
	Air Injection Pressure psi	—		—		—		—		—		—	
	Air Injection Flow cfm	—		—		—		—		—		—	
	Samples	—		—		—		—		—		tedlar	

DATE	OPERATING DATA AND NOTES
2-15-01	System on, changed oil, restarted
2-20-01	System on, switched propane tanks, bailed well, restarted
2-24-01	AcuVac on-site to remove SVE unit, samples of vapor

Product Removal Log

Date	Gas	Water	Method
10/26/00	0.25 gal	—	Hand Bailer
10/27/00	3.0 gal	1.0 gal	Pump
10/27/00	0.45 gal	1.35 gal	Pump
10/31/00	0.75 gal	1.15 gal	Pump
11/1/00 am	0.25 gal	2.5 gal	Pump
11/1/00 pm	0.3 gal	1.8 gal	Pump
11/2/00 pm	0.4 gal	2.3 gal	Pump ← leaking air into SVE through PV
11/3/00 pm	0.25 gal	0.85 gal	Pump
11/15/00	0.15 gal	1.0 gal	Hand Bailer
11/~~27~~/00	1.25 gal	1.25 gal	knockout tank
11/27/00	1.5 gal	0 gal	knockout tank
11/28/00	0.8 gal	0.3 gal	knockout tank — emptied to 400
11/29/00	0.8 gal	1.0 gal	well / knockout tank
11/30/00	0.75 gal	2.0 gal	well / knockout tank / hose
12/1/00	0.5 gal	1.5 gal	" " "
12/5/00	1.0 gal	1.0 gal	knock-out + hose
12/6/00	0.5 gal	1.5 gal	" "
ok ~~12/6/00~~	~~1.0 gal~~	~~1.75 gal~~	~~" "~~
12/7/00	1.15 gal	0.6 gal	" "
12/11/00	0.1 gal	1.9 gal	well
12/11/00	1.2 gal	1.6 gal	knockout tank
12/12/00	0.5 gal	2.0 gal	well/tank
12/13/00	0.25 gal	1.75 gal	well/tank
12/14/00	0.5 gal	1.75 gal	" "
12/15/00	0.3 gal	0.8 gal	hose + tank
12/19/00	1.25 gal	0.75 gal	" "
12/20/00	1.5 gal	1.25 gal	" "
12/21/00	~~[illegible]~~ 0.75 gal	1.0 gal	" "
1/12/01	1.0 gal	1.1 gal	" "
1/16/01	4.0 gal	2.5 gal	" "
1/17/01	0.1 gal	1.1 gal	" "
1/18/01	2.25 gal	1.5 gal	" "
1/22/01	3.75 gal	4.0 gal	" "

Product Removal Log (cont'd)

Date	Gas	Water	Method
1/23/01	0.3gal	0.5gal	well/hose/tank
1/24/01	0.75gal	1.5gal	" "
1/25/01	0.5gal	0.5gal	" "
1/26/01	0.25gal	2.0gal	" "
1/29/01	1.25gal	3.75gal	" "
1/30/01	0.6gal	1.0gal	" "
2/1/01	1.25gal	1.5gal	" "
2/5/01	1.6gal	3.4gal	" "
2/7/01	0.1gal	1.5gal	" "
2/9/01	0.5gal	2.5gal	" "
2/13/01	0.1gal	0.2gal	" "
2/12/01	0.5gal	3.0gal	" "
2/15/01	0.5gal	2.5gal	" "
2/20/01	0.25gal	4.0gal	" "

APPENDIX M

ANALYTICAL RESULTS,
AIR SAMPLES COLLECTED DURING OPERATION OF THE SVE SYSTEM

Hall Environmental Analysis Laboratory

NOV 01 2000

October 24, 2000

Ed Artiglia
Mevatec Corp.
PO Box 399 Bldg. 126
WSMR, NM 88002
TEL: (505) 678-0263
FAX

RE: HELSTF TSA SVE System

Order No.: 0010076

Dear Ed Artiglia:

Hall Environmental Analysis Laboratory received 2 samples on 10/18/00 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent.

Detection limits are determined by EPA methodology. No determination of compounds below these (denoted by the ND or < sign) has been made.

Please don't hesitate to contact HEAL for any additional information or clarifications.

Sincerely,

Nancy McDuffie
Assistant Laboratory Manager

4901 Hawkins NE, Suite A, Albuquerque, NM 87109
Ph (505) 345-3975, Fax (505) 345-4107

Hall Environmental Analysis Laboratory

Date: *25-Oct-00*

CLIENT:	Mevatec Corp.	**Client Sample ID:**	HVW01-(10-17-00)
Lab Order:	0010076	**Tag Number:**	
Project:	HELSTF TSA SVE System	**Collection Date:**	10/17/00 11:20:00 AM
Lab ID:	0010076-01A	**Matrix:**	AIR

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
GASOLINE RANGE ORGANICS		**SW8015**				Analyst: **AFM**
T/R Hydrocarbons: C5-C15+	59000	500		µg/L	100	10/19/00
Surr: BFB	99.0	74-118		%REC	100	10/19/00
VOLATILE ORGANICS BY EPA 8021B		**SW8021**				Analyst: **AFM**
Methyl tert-butyl ether	ND	25		µg/L	100	10/19/00
Benzene	200	5.0		µg/L	100	10/19/00
Toluene	5000	5.0		µg/L	100	10/19/00
Ethylbenzene	470	5.0		µg/L	100	10/19/00
1,2,4-Trimethylbenzene	ND	5.0		µg/L	100	10/19/00
1,3,5-Trimethylbenzene	ND	5.0		µg/L	100	10/19/00
Xylenes, Total	1000	5.0		µg/L	100	10/19/00
Surr: 4-Bromofluorobenzene	101	74-118		%REC	100	10/19/00

Qualifiers:

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

* - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

Hall Environmental Analysis Laboratory

Date: *25-Oct-00*

CLIENT:	Mevatec Corp.	**Client Sample ID:**	HELSTF TSA SVESystem (10-1
Lab Order:	0010076	**Tag Number:**	
Project:	HELSTF TSA SVE System	**Collection Date:**	10/17/00 2:48:00 PM-
Lab ID:	0010076-02A	**Matrix:**	AIR

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
GASOLINE RANGE ORGANICS		**SW8015**				Analyst: **AFM**
T/R Hydrocarbons: C5-C15+	4	5.0	J	µg/L	1	10/19/00
Surr: BFB	95.0	74-118		%REC	1	10/19/00
VOLATILE ORGANICS BY EPA 8021B		**SW8021**				Analyst: **AFM**
Methyl tert-butyl ether	ND	0.25		µg/L	1	10/19/00
Benzene	1.2	0.050		µg/L	1	10/19/00
Toluene	1.2	0.050		µg/L	1	10/19/00
Ethylbenzene	0.44	0.050		µg/L	1	10/19/00
1,2,4-Trimethylbenzene	ND	0.050		µg/L	1	10/19/00
1,3,5-Trimethylbenzene	ND	0.050		µg/L	1	10/19/00
Xylenes, Total	2.0	0.050		µg/L	1	10/19/00
Surr: 4-Bromofluorobenzene	97.0	74-118		%REC	1	10/19/00

Qualifiers:

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

Hall Environmental Analysis Laboratory

Date: *25-Oct-00*

CLIENT: Mevatec Corp.
Work Order: 0010076
Project: HELSTF TSA SVE System

QC SUMMARY REPORT
Method Blank

Sample ID: **MBLK** Batch ID: **R2** Test Code: **SW8015** Units: **µg/L** Analysis Date: **10/19/00** Prep Date:
Client ID: Run ID: **PIDFID_001019A** SeqNo: **53**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
T/R Hydrocarbons: C5-C15+	ND	0.050									
Surr: BFB	99	0	100	0	99	74	118	0			

Sample ID: **MBLK** Batch ID: **R2** Test Code: **SW8021** Units: **µg/L** Analysis Date: **10/19/00** Prep Date:
Client ID: Run ID: **PIDFID_001019A** SeqNo: **43**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Methyl tert-butyl ether	ND	2.5									
Benzene	ND	0.50									
Toluene	ND	0.50									
Ethylbenzene	ND	0.50									
1,2,4-Trimethylbenzene	ND	0.50									
1,3,5-Trimethylbenzene	ND	0.50									
Xylenes, Total	ND	0.50									
Surr: 4-Bromofluorobenzene	98	0	100	0	98	74	118	0			

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

CLIENT: Mevatec Corp.
Work Order: 0010076
Project: HELSTF TSA SVE System

QC SUMMARY REPORT

Laboratory Control Spike - generic

Sample ID: **LCS** Batch ID: **R2** Test Code: **SW8015** Units: **µg/L** Analysis Date: **10/19/00** Prep Date:
Client ID: Run ID: **PIDFID_001019A** SeqNo: **54**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
T/R Hydrocarbons: C5-C15+	0.5	0.050	0.5	0	100	82	124	0			
Surr: BFB	ND	0	100	0	0	74	118	0			S

Sample ID: **LCSD** Batch ID: **R2** Test Code: **SW8015** Units: **µg/L** Analysis Date: **10/19/00** Prep Date:
Client ID: Run ID: **PIDFID_001019A** SeqNo: **55**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
T/R Hydrocarbons: C5-C15+	0.5	0.050	0.5	0	100	82	124	0.5	0	18	
Surr: BFB	ND	0	100	0	0	74	118	0	0	0	S

Sample ID: **LCS** Batch ID: **R2** Test Code: **SW8021** Units: **µg/L** Analysis Date: **10/19/00** Prep Date:
Client ID: Run ID: **PIDFID_001019A** SeqNo: **44**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Methyl tert-butyl ether	38.6	2.5	40	0	96.5	65	132	0			
Benzene	21.1	0.50	20	0	106	77	122	0			
Toluene	21.2	0.50	20	0	106	81	115	0			
Ethylbenzene	20.8	0.50	20	0	104	84	117	0			
Xylenes, Total	64.7	0.50	60	0	108	84	116	0			

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

CLIENT: Mevatec Corp.
Work Order: 0010076
Project: HELSTF TSA SVE System

QC SUMMARY REPORT

Laboratory Control Spike Duplicate

Sample ID: **LCSD** Batch ID: **R2** Test Code: **SW8021** Units: **µg/L** Analysis Date: **10/19/00** Prep Date:

Client ID: Run ID: **PIDFID_001019A** SeqNo: **45**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Methyl tert-butyl ether	40.5	2.5	40	0	101	65	132	38.6	4.8	28	
Benzene	21.2	0.50	20	0	106	77	122	21.1	0.473	27	
Toluene	21.4	0.50	20	0	107	81	115	21.2	0.939	19	
Ethylbenzene	20.9	0.50	20	0	105	84	117	20.8	0.48	10	
Xylenes, Total	65.1	0.50	60	0	109	84	116	0	0	13	

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

MEVATEC CORPORATION
P.O. Box 399
Bldg. 126
WSMR, NM 88002
(505) 678-0263

CHAIN OF CUSTODY RECORD

PROJECT NO.: 70089

PROJECT NAME: HELSTF TSA SVE System

SAMPLER'S SIGNATURE: [signature]

DATE COLLECTED	TIME COLLECTED	SAMPLE ID	MATRIX	LAB NO.	NO. OF CONTAINERS	ANALYSIS REQUESTED: Bioassay/Bioreg	REMARKS
10/17/00	1120	HVW 01 - (10-17-00)	Air		1	X	0010076-1
10/17/00	1448	HELSTF TSA SVE System (10-17-00)	Air		1	X	-2
		PO# 00P-2047					

PROJECT INFORMATION			1. RELINQUISHED BY: (SIGNATURE)	2. RELINQUISHED BY: (SIGNATURE)	3. RECEIVED BY LABORATORY: (SIGNATURE)
PROJECT MANAGER: Ed Artiglia	SAMPLES RECEIVED		(PRINTED NAME) Greg Watterson	(PRINTED NAME)	(PRINTED NAME) Anne Thorne
	TOTAL NO. OF CONTAINERS		RECEIVED BY:	RECEIVED BY:	(COMPANY) HEAL
SHIPPING ID. NO.	CHAIN OF CUSTODY SEALS		(TIME / DATE)	(TIME / DATE)	(TIME / DATE) 0830 10/18/00
VIA: Fed Ex	GOOD CONDITION/CHILLED		SPECIAL INSTRUCTIONS / COMMENTS:		
	CONFORMS TO RECORD				

PLEASE USE BALL POINT PEN

DISTRIBUTION: WHITE - PROJECT FILES; YELLOW - LAB; PINK - FIELD COPY

Hall Environmental Analysis Laboratory

November 13, 2000

Ed Artiglia
Mevatec Corp.
PO Box 399 Bldg. 126
WSMR, NM 88002
TEL: (505) 678-0263
FAX

RE: HELSTF TSA SVE System

Order No.: 0010130

Dear Ed Artiglia:

Hall Environmental Analysis Laboratory received 1 sample on 10/26/00 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent.

Detection limits are determined by EPA methodology. No determination of compounds below these (denoted by the ND or < sign) has been made.

Please don't hesitate to contact HEAL for any additional information or clarifications.

Sincerely,

Andy Freeman, Senior Project Manager
Nancy McDuffie, Assistant Laboratory Manager

4901 Hawkins NE, Suite A, Albuquerque, NM 87109
Ph (505) 345-3975, Fax (505) 345-4107

Hall Environmental Analysis Laboratory

Date: *13-Nov-00*

CLIENT: Mevatec Corp.
Project: HELSTF TSA SVE System

Lab Order: 0010130

Lab ID: 0010130-01
Client Sample ID: HVW-01-10-25-00

Collection Date: 10/25/00 7:45:00 AM
Matrix: AIR

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
GASOLINE RANGE ORGANICS		**SW8015**				Analyst: **AFM**
T/R Hydrocarbons: C5-C15+	95000	2500		µg/L	500	10/26/00
Surr: BFB	111	74-118		%REC	500	10/26/00
BTEX BY EPA 8021B		**SW8021**				Analyst: **AFM**
Methyl tert-butyl ether (MTBE)	ND	130		µg/L	500	10/26/00
Benzene	1600	25		µg/L	500	10/26/00
Toluene	3300	25		µg/L	500	10/26/00
Ethylbenzene	160	25		µg/L	500	10/26/00
Xylenes, Total	320	25		µg/L	500	10/26/00
Surr: 4-Bromofluorobenzene	94.0	74-118		%REC	500	10/26/00

Qualifiers:

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

Hall Environmental Analysis Laboratory

Date: *13-Nov-00*

CLIENT: Mevatec Corp.
Work Order: 0010130
Project: HELSTF TSA SVE System

QC SUMMARY REPORT

Method Blank

Sample ID: **MBLK** Batch ID: **R74** Test Code: **SW8015** Units: **µg/L** Analysis Date: **10/26/00** Prep Date:

Client ID: Run ID: **PIDFID_001026B** SeqNo: **1302**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
T/R Hydrocarbons: C5-C15+	ND	0.050									
Surr: BFB	115	0	100	0	115	74	118	0			

Sample ID: **MBLK** Batch ID: **R73** Test Code: **SW8021** Units: **µg/L** Analysis Date: **10/26/00** Prep Date:

Client ID: Run ID: **PIDFID_001026A** SeqNo: **1298**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Methyl tert-butyl ether (MTBE)	ND	2.5									
Benzene	ND	0.50									
Toluene	ND	0.50									
Ethylbenzene	ND	0.50									
Xylenes, Total	ND	0.50									
Surr: 4-Bromofluorobenzene	104	0	100	0	104	74	118	0			

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

Hall Environmental Analysis Laboratory

Date: *13-Nov-00*

CLIENT: Mevatec Corp.
Work Order: 0010130
Project: HELSTF TSA SVE System

QC SUMMARY REPORT

Laboratory Control Spike - generic

Sample ID: **LCS** Batch ID: **R74** Test Code: **SW8015** Units: **µg/L** Analysis Date: **10/26/00** Prep Date:
Client ID: Run ID: **PIDFID_001026B** SeqNo: **1303**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
T/R Hydrocarbons: C5-C15+	0.5	0.050	0.5	0	100	82	124	0			

Sample ID: **LCSD** Batch ID: **R74** Test Code: **SW8015** Units: **µg/L** Analysis Date: **10/26/00** Prep Date:
Client ID: Run ID: **PIDFID_001026B** SeqNo: **1304**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
T/R Hydrocarbons: C5-C15+	0.5	0.050	0.5	0	100	82	124	0.5	0	18	

Sample ID: **LCS** Batch ID: **R73** Test Code: **SW8021** Units: **µg/L** Analysis Date: **10/26/00** Prep Date:
Client ID: Run ID: **PIDFID_001026A** SeqNo: **1299**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Methyl tert-butyl ether (MTBE)	38.3	2.5	40	0	95.8	65	132	0			
Benzene	19	0.50	20	0	95.0	77	122	0			
Toluene	19.3	0.50	20	0	96.5	81	115	0			
Ethylbenzene	19.5	0.50	20	0	97.5	84	117	0			
Xylenes, Total	58.4	0.50	60	0	97.3	84	116	0			

Sample ID: **LCSD** Batch ID: **R73** Test Code: **SW8021** Units: **µg/L** Analysis Date: **10/26/00** Prep Date:
Client ID: Run ID: **PIDFID_001026A** SeqNo: **1300**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Methyl tert-butyl ether (MTBE)	39.8	2.5	40	0	99.5	65	132	38.3	3.84	32	
Benzene	19	0.50	20	0	95.0	77	122	19	0	27	
Toluene	19.6	0.50	20	0	98.0	81	115	19.3	1.54	19	
Ethylbenzene	19.5	0.50	20	0	97.5	84	117	19.5	0	10	
Xylenes, Total	58.9	0.50	60	0	98.2	84	116	58.4	0.853	13	

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

PO # 00P-2047

MEVATEC CORPORATION
P.O. Box 399
Bldg. 126
WSMR, NM 88002
(505) 678-0263

CHAIN OF CUSTODY RECORD

PAGE 1 OF 1

PROJECT NO.: 700-B9

PROJECT NAME: HELSTF TSA SVE system

SAMPLER'S SIGNATURE: [signature]

DATE COLLECTED	TIME COLLECTED	SAMPLE ID	MATRIX	LAB NO.	NO. OF CONTAINERS	ANALYSIS REQUESTED: 8021B/8015B	REMARKS
10-25-00	0745	HVW-01 - 10-25-00	air	00101130-1	2	X	

PROJECT INFORMATION			1. RELINQUISHED BY: (SIGNATURE)	2. RELINQUISHED BY: (SIGNATURE)	3. RECEIVED BY LABORATORY: (SIGNATURE)
PROJECT MANAGER: Ed Artiglia	SAMPLES RECEIVED		[signature]		
	TOTAL NO. OF CONTAINERS		(PRINTED NAME) Chris Whitman	(PRINTED NAME)	(PRINTED NAME)
SHIPPING ID. NO.	CHAIN OF CUSTODY SEALS		RECEIVED BY: Jeff Brick	RECEIVED BY:	(COMPANY)
	GOOD CONDITION/CHILLED		(TIME / DATE) 10/26 @ 0900	(TIME / DATE)	(TIME / DATE)
VIA: Fed Ex	CONFORMS TO RECORD		SPECIAL INSTRUCTIONS / COMMENTS:		

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Hall Environmental Analysis Laboratory

NOV 16 2000

November 13, 2000

Ed Artiglia
Mevatec Corp.
PO Box 399 Bldg. 126
WSMR, NM 88002
TEL: (505) 678-0263
FAX

RE: HELSTF TSA SVE System Order No.: 0010158

Dear Ed Artiglia:

Hall Environmental Analysis Laboratory received 2 samples on 10/31/00 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent.

Detection limits are determined by EPA methodology. No determination of compounds below these (denoted by the ND or < sign) has been made.

Please don't hesitate to contact HEAL for any additional information or clarifications.

Sincerely,

Andy Freeman, Senior Project Manager
Nancy McDuffie, Assistant Laboratory Manager

4901 Hawkins NE, Suite A, Albuquerque, NM 87109
Ph (505) 345-3975, Fax (505) 345-4107

Hall Environmental Analysis Laboratory

Date: *14-Nov-00*

CLIENT: Mevatec Corp.
Project: HELSTF TSA SVE System

Lab Order: 0010158

Lab ID: 0010158-01
Client Sample ID: HVW-01-10-27-00

Collection Date: 10/27/00 4:00:00 PM
Matrix: AIR

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
GRO BY 8015B		**SW8015**				Analyst: **AFM**
T/R Hydrocarbons: C5-C15+	130000	2500	H	µg/L	500	10/31/00
Surr: BFB	118	74-118	H	%REC	500	10/31/00
BTEX BY EPA 8021B		**SW8021**				Analyst: **AFM**
Methyl tert-butyl ether (MTBE)	ND	130	H	µg/L	500	10/31/00
Benzene	2700	25	H	µg/L	500	10/31/00
Toluene	5500	25	H	µg/L	500	10/31/00
Ethylbenzene	380	25	H	µg/L	500	10/31/00
Xylenes, Total	780	25	H	µg/L	500	10/31/00
Surr: 4-Bromofluorobenzene	94.0	74-118	H	%REC	500	10/31/00

Lab ID: 0010158-02
Client Sample ID: HVW-01-10-30-00

Collection Date: 10/30/00 10:50:00 AM
Matrix: AIR

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
GRO BY 8015B		**SW8015**				Analyst: **AFM**
T/R Hydrocarbons: C5-C15+	140000	2500		µg/L	500	10/31/00
Surr: BFB	111	74-118		%REC	500	10/31/00
BTEX BY EPA 8021B		**SW8021**				Analyst: **AFM**
Methyl tert-butyl ether (MTBE)	ND	130		µg/L	500	10/31/00
Benzene	3100	25		µg/L	500	10/31/00
Toluene	6100	25		µg/L	500	10/31/00
Ethylbenzene	410	25		µg/L	500	10/31/00
Xylenes, Total	850	25		µg/L	500	10/31/00
Surr: 4-Bromofluorobenzene	92.0	74-118		%REC	500	10/31/00

Qualifiers:

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

Hall Environmental Analysis Laboratory

Date: *14-Nov-00*

CLIENT: Mevatec Corp.
Work Order: 0010158
Project: HELSTF TSA SVE System

QC SUMMARY REPORT

Method Blank

Sample ID: **MBLK** Batch ID: **R82** Test Code: **SW8015** Units: **µg/L** Analysis Date: **10/31/00** Prep Date:

Client ID: Run ID: **PIDFID_001031D** SeqNo: **1391**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
T/R Hydrocarbons: C5-C15+	ND	0.050									
Surr: BFB	118	0	100	0	118	74	118	0			

Sample ID: **MBLK** Batch ID: **R81** Test Code: **SW8021** Units: **µg/L** Analysis Date: **10/31/00** Prep Date:

Client ID: Run ID: **PIDFID_001031C** SeqNo: **1386**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Methyl tert-butyl ether (MTBE)	ND	0.25									
Benzene	ND	0.050									
Toluene	ND	0.050									
Ethylbenzene	ND	0.050									
Xylenes, Total	ND	0.050									
Surr: 4-Bromofluorobenzene	107	0	100	0	107	74	118	0			

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

Hall Environmental Analysis Laboratory

Date: *14-Nov-00*

CLIENT: Mevatec Corp.
Work Order: 0010158
Project: HELSTF TSA SVE System

QC SUMMARY REPORT

Laboratory Control Spike - generic

Sample ID: **LCS** Batch ID: **R82** Test Code: **SW8015** Units: **µg/L** Analysis Date: **10/31/00** Prep Date:
Client ID: Run ID: **PIDFID_001031D** SeqNo: **1392**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
T/R Hydrocarbons: C5-C15+	0.5	0.050	0.5	0	100	82	124	0			

Sample ID: **LCSD** Batch ID: **R82** Test Code: **SW8015** Units: **µg/L** Analysis Date: **10/31/00** Prep Date:
Client ID: Run ID: **PIDFID_001031D** SeqNo: **1393**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
T/R Hydrocarbons: C5-C15+	0.5	0.050	0.5	0	100	82	124	0.5	0	18	

Sample ID: **LCS** Batch ID: **R81** Test Code: **SW8021** Units: **µg/L** Analysis Date: **10/31/00** Prep Date:
Client ID: Run ID: **PIDFID_001031C** SeqNo: **1387**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	21.7	0.050	20	0	109	77	122	0			
Toluene	21.4	0.050	20	0	107	81	115	0			
Ethylbenzene	21.5	0.050	20	0	108	84	117	0			
Xylenes, Total	65.4	0.050	60	0	109	84	116	0			

Sample ID: **LCSD** Batch ID: **R81** Test Code: **SW8021** Units: **µg/L** Analysis Date: **10/31/00** Prep Date:
Client ID: Run ID: **PIDFID_001031C** SeqNo: **1388**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	20.1	0.050	20	0	101	77	122	21.7	7.66	27	
Toluene	19.9	0.050	20	0	99.5	81	115	21.4	7.26	19	
Ethylbenzene	18.7	0.050	20	0	93.5	84	117	21.5	13.9	10	R
Xylenes, Total	57.9	0.050	60	0	96.5	84	116	65.4	12.2	13	

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

MEVATEC CORPORATION
P.O. Box 399
Bldg. 126
WSMR, NM 88002
(505) 678-0263

PO # OOP - 2047

CHAIN OF CUSTODY RECORD

PAGE 1 OF 1

PROJECT NO.: 700 - B9

PROJECT NAME: HELSTF TSA SVE system

SAMPLER'S SIGNATURE: [signature]

DATE COLLECTED	TIME COLLECTED	SAMPLE ID	MATRIX	LAB NO.	NO. OF CONTAINERS	8021 B/ 8015 B										REMARKS
10/27/00	1600	HVW-01-10-27-00	air		2	X							00/0158		-1	high BTEX
10/30/00	1050	HVW-01-10-30-00	air		2	X									-2	high BTEX

PROJECT INFORMATION			1. RELINQUISHED BY: (SIGNATURE)	2. RELINQUISHED BY: (SIGNATURE)	3. RECEIVED BY LABORATORY: (SIGNATURE)
PROJECT MANAGER: Ed Artiglia	SAMPLES RECEIVED		(PRINTED NAME) Chris Whitman	(PRINTED NAME)	(PRINTED NAME)
	TOTAL NO. OF CONTAINERS		RECEIVED BY: Jeff Bailey Fed Ex	RECEIVED BY:	(COMPANY)
SHIPPING ID. NO.	CHAIN OF CUSTODY SEALS		(TIME / DATE) 0830 10/31	(TIME / DATE)	(TIME / DATE)
VIA: Fed Ex	GOOD CONDITION/CHILLED		SPECIAL INSTRUCTIONS / COMMENTS:		
	CONFORMS TO RECORD				

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Hall Environmental Analysis Laboratory

DEC 1 2000

December 05, 2000

Ed Artiglia
Mevatec Corp.
PO Box 399 Bldg. 126
WSMR, NM 88002
TEL: (505) 678-0263
FAX

RE: HELSTF TSA

Order No.: 0011081

Dear Ed Artiglia:

Hall Environmental Analysis Laboratory received 1 sample on 11/16/00 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent.

Detection limits are determined by EPA methodology. No determination of compounds below these (denoted by the ND or < sign) has been made.

Please don't hesitate to contact HEAL for any additional information or clarifications.

Sincerely,

Andy Freeman, Senior Project Manager
Nancy McDuffie, Assistant Laboratory Manager

4901 Hawkins NE, Suite A, Albuquerque, NM 87109
Ph (505) 345-3975, Fax (505) 345-4107

Hall Environmental Analysis Laboratory

Date: *05-Dec-00*

CLIENT: Mevatec Corp.
Project: HELSTF TSA

Lab Order: 0011081

Lab ID: 0011081-01
Client Sample ID: HVW 01-(11-14-00)

Collection Date: 11/14/00 3:00:00 PM
Matrix: AIR

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
GASOLINE RANGE ORGANICS		**SW8015**				Analyst: **AFM**
T/R Hydrocarbons: C5-C15+	97000	1300		µg/L	250	11/16/00
Surr: BFB	109	74-118		%REC	250	11/16/00
BTEX BY EPA 8021B		**SW8021**				Analyst: **AFM**
Methyl tert-butyl ether (MTBE)	ND	63		µg/L	250	11/16/00
Benzene	2000	13		µg/L	250	11/16/00
Toluene	5700	13		µg/L	250	11/16/00
Ethylbenzene	600	13		µg/L	250	11/16/00
Xylenes, Total	1200	13		µg/L	250	11/16/00
Surr: 4-Bromofluorobenzene	118	74-118		%REC	250	11/16/00

Qualifiers:

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

Hall Environmental Analysis Laboratory

Date: *05-Dec-00*

CLIENT: Mevatec Corp.
Work Order: 0011081
Project: HELSTF TSA

QC SUMMARY REPORT

Method Blank

Sample ID: **MBLK** Batch ID: **R225** Test Code: **SW8015** Units: **mg/L** Analysis Date: **11/16/00** Prep Date:

Client ID: Run ID: **PIDFID_001116A** SeqNo: **4249**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
T/R Hydrocarbons: C5-C15+	ND	0.050									
Surr: BFB	109	0	100	0	109	84	118	0			

Sample ID: **MBLK** Batch ID: **R225** Test Code: **SW8021** Units: **µg/L** Analysis Date: **11/16/00** Prep Date:

Client ID: Run ID: **PIDFID_001116A** SeqNo: **4253**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Methyl tert-butyl ether (MTBE)	ND	2.5									
Benzene	ND	0.50									
Toluene	ND	0.50									
Ethylbenzene	ND	0.50									
Xylenes, Total	ND	0.50									
Surr: 4-Bromofluorobenzene	105	0	100	0	105	74	118	0			

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

Hall Environmental Analysis Laboratory

Date: *05-Dec-00*

CLIENT: Mevatec Corp.
Work Order: 0011081
Project: HELSTF TSA

QC SUMMARY REPORT

Laboratory Control Spike - generic

Sample ID: **LCS** Batch ID: **R225** Test Code: **SW8015** Units: **mg/L** Analysis Date: **11/16/00** Prep Date:
Client ID: Run ID: **PIDFID_001116A** SeqNo: **4250**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
T/R Hydrocarbons: C5-C15+	0.49	0.050	0.5	0	98.0	82	124	0			

Sample ID: **LCSD** Batch ID: **R225** Test Code: **SW8015** Units: **mg/L** Analysis Date: **11/16/00** Prep Date:
Client ID: Run ID: **PIDFID_001116A** SeqNo: **4251**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
T/R Hydrocarbons: C5-C15+	0.51	0.050	0.5	0	102	82	124	0.49	4.00	18	

Sample ID: **LCS** Batch ID: **R225** Test Code: **SW8021** Units: **µg/L** Analysis Date: **11/16/00** Prep Date:
Client ID: Run ID: **PIDFID_001116A** SeqNo: **4254**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Methyl tert-butyl ether (MTBE)	37.6	2.5	40	0	94.0	65	132	0			
Benzene	22.6	0.50	20	0	113	77	122	0			
Toluene	22.5	0.50	20	0	113	81	115	0			
Ethylbenzene	22.3	0.50	20	0	112	84	117	0			
Xylenes, Total	69.5	0.50	60	0	116	84	116	0			

Sample ID: **LCSD** Batch ID: **R225** Test Code: **SW8021** Units: **µg/L** Analysis Date: **11/16/00** Prep Date:
Client ID: Run ID: **PIDFID_001116A** SeqNo: **4255**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Methyl tert-butyl ether (MTBE)	40.3	2.5	40	0	101	65	132	37.6	6.93	28	
Benzene	22.9	0.50	20	0	115	77	122	22.6	1.32	27	
Toluene	22.8	0.50	20	0	114	81	115	22.5	1.32	19	
Ethylbenzene	22.4	0.50	20	0	112	84	117	22.3	0.447	10	
Xylenes, Total	69.1	0.50	60	0	115	84	116	69.5	0.577	13	

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

PO# WOP-2047

MEVATEC CORPORATION
P.O. Box 399
Bldg. 126
WSMR, NM 88002
(505) 678-0263

CHAIN OF CUSTODY RECORD

PROJECT NO.: 70089
PROJECT NAME: HELSTF TSA
SAMPLER'S SIGNATURE: [signature]

DATE COLLECTED	TIME COLLECTED	SAMPLE ID	MATRIX	LAB NO.	NO. OF CONTAINERS	8015 8021B										REMARKS
11/14/00	1500	HVW 01-(11-14-00)	Air		2	X										0011081-1

PROJECT INFORMATION	SAMPLES RECEIVED		1. RELINQUISHED BY: (SIGNATURE)	2. RELINQUISHED BY: (SIGNATURE)	3. RECEIVED BY LABORATORY: (SIGNATURE)
PROJECT MANAGER: Ed Artiglia	TOTAL NO. OF CONTAINERS		(PRINTED NAME) Greg Walters	(PRINTED NAME)	(PRINTED NAME)
SHIPPING ID. NO.	CHAIN OF CUSTODY SEALS		RECEIVED BY: Jeff Buck	RECEIVED BY:	(COMPANY)
	GOOD CONDITION/CHILLED		(TIME / DATE) 0830 @ 11/16	(TIME / DATE)	(TIME / DATE)
VIA: Fed Ex	CONFORMS TO RECORD		SPECIAL INSTRUCTIONS / COMMENTS:		

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Hall Environmental Analysis Laboratory

December 15, 2000

Ed Artiglia
Mevatec Corp.
PO Box 399 Bldg. 126
WSMR, NM 88002
TEL: (505) 678-0263
FAX

RE: HELSTF TSA SVE SYSTEM Order No.: 0012003

Dear Ed Artiglia:

Hall Environmental Analysis Laboratory received 1 sample on 12/1/00 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent.

Detection limits are determined by EPA methodology. No determination of compounds below these (denoted by the ND or < sign) has been made.

Please don't hesitate to contact HEAL for any additional information or clarifications.

Sincerely,

Andy Freeman, Senior Project Manager
Nancy McDuffie, Assistant Laboratory Manager

4901 Hawkins NE, Suite A, Albuquerque, NM 87109
Ph (505) 345-3975, Fax (505) 345-4107

Hall Environmental Analysis Laboratory

Date: *15-Dec-00*

CLIENT:	Mevatec Corp.	**Client Sample ID:**	HVW01-(11-30-00)
Lab Order:	0012003	**Tag Number:**	
Project:	HELSTF TSA SVE SYSTEM	**Collection Date:**	11/30/00 11:15:00 AM
Lab ID:	0012003-01A	**Matrix:**	AIR

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
GRO BY 8015B		**SW8015**				Analyst: **AFM**
Gasoline Range Organics (GRO)	65000	2500		µg/L	500	12/1/00
Surr: BFB	103	74-118		%REC	500	12/1/00
BTEX BY EPA 8021B		**SW8021**				Analyst: **AFM**
Methyl tert-butyl ether (MTBE)	ND	130		µg/L	500	12/1/00
Benzene	1700	25		µg/L	500	12/1/00
Toluene	5900	25		µg/L	500	12/1/00
Ethylbenzene	490	25		µg/L	500	12/1/00
Xylenes, Total	ND	25		µg/L	500	12/1/00
Surr: 4-Bromofluorobenzene	107	74-118		%REC	500	12/1/00

Qualifiers:

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

* - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

Hall Environmental Analysis Laboratory

Date: *15-Dec-00*

CLIENT: Mevatec Corp.
Work Order: 0012003
Project: HELSTF TSA SVE SYSTEM

QC SUMMARY REPORT

Method Blank

Sample ID: **mblk** Batch ID: **R256** Test Code: **SW8015** Units: **mg/L** Analysis Date: **12/1/00** Prep Date:

Client ID: Run ID: **PIDFID_001201A** SeqNo: **5641**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	0.050									
Surr: BFB	114	0	100	0	114	84	118	0			

Sample ID: **mblk** Batch ID: **R256** Test Code: **SW8021** Units: **µg/L** Analysis Date: **12/1/00** Prep Date:

Client ID: Run ID: **PIDFID_001201A** SeqNo: **5640**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Methyl tert-butyl ether (MTBE)	ND	2.5									
Benzene	ND	0.50									
Toluene	ND	0.50									
Ethylbenzene	ND	0.50									
Xylenes, Total	ND	0.50									
Surr: 4-Bromofluorobenzene	22	0	20	0	110	74	118	0			

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

Hall Environmental Analysis Laboratory

Date: *18-Dec-00*

CLIENT: Mevatec Corp.
Work Order: 0012003
Project: HELSTF TSA SVE SYSTEM

QC SUMMARY REPORT

Laboratory Control Spike Duplicate

Sample ID: **lcs** Batch ID: **R256** Test Code: **SW8015** Units: **mg/L** Analysis Date: **12/1/00** Prep Date:
Client ID: Run ID: **PIDFID_001201A** SeqNo: **5642**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	0.51	0.050	0.5	0	102	82	124	0			

Sample ID: **lcsd** Batch ID: **R256** Test Code: **SW8015** Units: **mg/L** Analysis Date: **12/1/00** Prep Date:
Client ID: Run ID: **PIDFID_001201A** SeqNo: **5643**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	0.51	0.050	0.5	0	102	82	124	0.51	0	18	

Sample ID: **lcs** Batch ID: **R256** Test Code: **SW8021** Units: **µg/L** Analysis Date: **12/1/00** Prep Date:
Client ID: Run ID: **PIDFID_001201A** SeqNo: **5638**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Methyl tert-butyl ether (MTBE)	37.6	2.5	40	0	94.0	65	132	0			
Benzene	21.3	0.50	20	0	107	77	122	0			
Toluene	21.4	0.50	20	0	107	81	115	0			
Ethylbenzene	20.8	0.50	20	0	104	84	117	0			
Xylenes, Total	65.1	0.50	60	0	109	84	116	0			

Sample ID: **lcsd** Batch ID: **R256** Test Code: **SW8021** Units: **µg/L** Analysis Date: **12/1/00** Prep Date:
Client ID: Run ID: **PIDFID_001201A** SeqNo: **5639**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Methyl tert-butyl ether (MTBE)	34.7	2.5	40	0	86.8	65	132	37.6	8.02	28	
Benzene	22.8	0.50	20	0	114	77	122	21.3	6.80	27	
Toluene	22.9	0.50	20	0	115	81	115	21.4	6.77	19	
Ethylbenzene	22.5	0.50	20	0	113	84	117	20.8	7.85	10	
Xylenes, Total	70.6	0.50	60	0	118	84	116	65.1	8.11	13	S

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

PO# ØØP-2Ø47

MEVATEC CORPORATION
P.O. Box 399
Bldg. 126
WSMR, NM 88002
(505) 678-0263

CHAIN OF CUSTODY RECORD

PAGE 1 OF 1

PROJECT NO.: 70089
PROJECT NAME: HELSTF TSA SVE System
SAMPLER'S SIGNATURE:

DATE COLLECTED	TIME COLLECTED	SAMPLE ID	MATRIX	LAB NO.	NO. OF CONTAINERS	8015 8021B	REMARKS
11/30/00	1115	HUW01-(11-30-00)	Air	002003-1	2	X	

PROJECT INFORMATION	SAMPLES RECEIVED		1. RELINQUISHED BY: (SIGNATURE)	2. RELINQUISHED BY: (SIGNATURE)	3. RECEIVED BY LABORATORY: (SIGNATURE)
PROJECT MANAGER: Ed Artiglia P.E.	TOTAL NO. OF CONTAINERS		(PRINTED NAME) Greg Watterson	(PRINTED NAME)	(PRINTED NAME) G. HILTGEN
SHIPPING ID. NO.	CHAIN OF CUSTODY SEALS		RECEIVED BY:	RECEIVED BY:	(COMPANY)
	GOOD CONDITION/CHILLED		(TIME / DATE)	(TIME / DATE)	(TIME / DATE)
VIA: Fed Ex	CONFORMS TO RECORD		SPECIAL INSTRUCTIONS / COMMENTS:		

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Hall Environmental Analysis Laboratory

January 02, 2001

Ed Artiglia
Mevatec Corp.
PO Box 399 Bldg. 126
WSMR, NM 88002
TEL: (505) 678-0263
FAX (505) 678-6096

RE: HELSTF TSA SVE SYSTEM Order No.: 0012108

Dear Ed Artiglia:

Hall Environmental Analysis Laboratory received 1 sample on 12/14/00 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent.

Detection limits are determined by EPA methodology. No determination of compounds below these (denoted by the ND or < sign) has been made.

Please don't hesitate to contact HEAL for any additional information or clarifications.

Sincerely,

Andy Freeman, Senior Project Manager
Nancy McDuffie, Assistant Laboratory Manager

4901 Hawkins NE, Suite A, Albuquerque, NM 87109
Ph (505) 345-3975, Fax (505) 345-4107

Hall Environmental Analysis Laboratory

Date: *02-Jan-01*

CLIENT: Mevatec Corp.
Project: HELSTF TSA SVE SYSTEM

Lab Order: 0012108

Lab ID: 0012108-01
Collection Date: 12/13/00
Client Sample ID: HVW01-(12-13-00)
Matrix: AIR

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
GRO BY 8015B		**SW8015**				Analyst: **AFM**
Gasoline Range Organics (GRO)	3800	1000		µg/L	200	12/14/00
Surr: BFB	108	74-118		%REC	200	12/14/00
BTEX BY EPA 8021B		**SW8021**				Analyst: **AFM**
Methyl tert-butyl ether (MTBE)	ND	50		µg/L	200	12/14/00 4:52:45 PM
Benzene	920	10		µg/L	200	12/14/00 4:52:45 PM
Toluene	4500	10		µg/L	200	12/14/00 4:52:45 PM
Ethylbenzene	450	10		µg/L	200	12/14/00 4:52:45 PM
Xylenes, Total	960	10		µg/L	200	12/14/00 4:52:45 PM
Surr: 4-Bromofluorobenzene	124	74-118	S	%REC	200	12/14/00 4:52:45 PM

Qualifiers:

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

Hall Environmental Analysis Laboratory

Date: *02-Jan-01*

CLIENT: Mevatec Corp.
Work Order: 0012108
Project: HELSTF TSA SVE SYSTEM

QC SUMMARY REPORT

Method Blank

Sample ID: **mb** Batch ID: **R349** Test Code: **SW8015** Units: **mg/L** Analysis Date: **12/14/00** Prep Date:
Client ID: Run ID: **PIDFID_001214B** SeqNo: **6942**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	0.050									
Surr: BFB	104	0	100	0	104	84	118	0			

Sample ID: **mb** Batch ID: **R349** Test Code: **SW8021** Units: **µg/L** Analysis Date: **12/14/00** Prep Date:
Client ID: Run ID: **PIDFID_001214B** SeqNo: **6946**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Methyl tert-butyl ether (MTBE)	ND	2.5									
Benzene	ND	0.50									
Toluene	ND	0.50									
Ethylbenzene	ND	0.50									
Xylenes, Total	ND	0.50									
Surr: 4-Bromofluorobenzene	22.25	0	20	0	111	74	118	0			

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

Hall Environmental Analysis Laboratory

Date: *02-Jan-01*

CLIENT: Mevatec Corp.
Work Order: 0012108
Project: HELSTF TSA SVE SYSTEM

QC SUMMARY REPORT

Laboratory Control Spike - generic

Sample ID: **lcs** Batch ID: **R349** Test Code: **SW8015** Units: **mg/L** Analysis Date: **12/14/00** Prep Date:
Client ID: Run ID: **PIDFID_001214B** SeqNo: **6944**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	0.52	0.050	0.5	0	104	82	124	0			

Sample ID: **lcsd** Batch ID: **R349** Test Code: **SW8015** Units: **mg/L** Analysis Date: **12/14/00** Prep Date:
Client ID: Run ID: **PIDFID_001214B** SeqNo: **6945**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	0.51	0.050	0.5	0	102	82	124	0.52	1.94	18	

Sample ID: **lcs** Batch ID: **R349** Test Code: **SW8021** Units: **µg/L** Analysis Date: **12/14/00** Prep Date:
Client ID: Run ID: **PIDFID_001214B** SeqNo: **6947**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Methyl tert-butyl ether (MTBE)	31.9	2.5	40	0	79.8	65	132	0			
Benzene	21.3	0.50	20	0	107	77	122	0			
Toluene	22	0.50	20	0	110	81	115	0			
Ethylbenzene	21.6	0.50	20	0	108	84	117	0			
Xylenes, Total	66.5	0.50	60	0	111	84	116	0			

Sample ID: **lcsd** Batch ID: **R349** Test Code: **SW8021** Units: **µg/L** Analysis Date: **12/14/00** Prep Date:
Client ID: Run ID: **PIDFID_001214B** SeqNo: **6948**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Methyl tert-butyl ether (MTBE)	33.1	2.5	40	0	82.8	65	132	31.9	3.69	28	
Benzene	21.12	0.50	20	0	106	77	122	21.3	0.849	27	
Toluene	21.3	0.50	20	0	107	81	115	22	3.23	19	
Ethylbenzene	21.2	0.50	20	0	106	84	117	21.6	1.87	10	
Xylenes, Total	66.2	0.50	60	0	110	84	116	66.5	0.452	13	

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

PO# : ØP-2Ø47

MEVATEC CORPORATION
P.O. Box 399
Bldg. 126
WSMR, NM 88002
(505) 678-0263

CHAIN OF CUSTODY RECORD

PAGE 1 OF 1

PROJECT NO.: 700B9

PROJECT NAME: HELJTF TSA SVE System

SAMPLER'S SIGNATURE:

DATE COLLECTED	TIME COLLECTED	SAMPLE ID	MATRIX	LAB NO.	NO. OF CONTAINERS	8015/8021B	REMARKS
12/18/00	1030	HVW01-(12-13-00)	Air		3	X	0012105-1

PROJECT INFORMATION			1. RELINQUISHED BY: (SIGNATURE)	2. RELINQUISHED BY: (SIGNATURE)	3. RECEIVED BY LABORATORY: (SIGNATURE)
PROJECT MANAGER: Ed Artiglia P.E.	SAMPLES RECEIVED		(PRINTED NAME): Greg Watterson	(PRINTED NAME):	(PRINTED NAME): Anne Thum
SHIPPING ID. NO.	TOTAL NO. OF CONTAINERS		RECEIVED BY:	RECEIVED BY:	(COMPANY): MEAC
VIA: Fed Ex	CHAIN OF CUSTODY SEALS		(TIME / DATE)	(TIME / DATE)	(TIME / DATE): 12/19/00 0830
	GOOD CONDITION/CHILLED		SPECIAL INSTRUCTIONS / COMMENTS:		
	CONFORMS TO RECORD				

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Hall Environmental Analysis Laboratory

February 01, 2001

Ed Artiglia
Mevatec Corp.
PO Box 399 Bldg. 126
WSMR, NM 88002
TEL: (505) 678-0263
FAX (505) 678-6096

RE: HELSTF TSA

Order No.: 0101109

Dear Ed Artiglia:

Hall Environmental Analysis Laboratory received 1 sample on 1/25/01 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent.

Detection limits are determined by EPA methodology. No determination of compounds below these (denoted by the ND or < sign) has been made.

Please don't hesitate to contact HEAL for any additional information or clarifications.

Sincerely,

Andy Freeman, Senior Project Manager
Nancy McDuffie, Assistant Laboratory Manager

4901 Hawkins NE, Suite A, Albuquerque, NM 87109
Ph (505) 345-3975, Fax (505) 345-4107

Hall Environmental Analysis Laboratory

Date: *01-Feb-01*

CLIENT: Mevatec Corp.
Lab Order: 0101109
Project: HELSTF TSA
Lab ID: 0101109-01

Client Sample ID: HVW01-(1-24-01)
Collection Date: 1/24/01 12:00:00 PM
Matrix: AIR

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
GRO BY 8015B		**SW8015**				Analyst: **AFM**
Gasoline Range Organics (GRO)	24000	500		µg/L	100	1/25/01
Surr: BFB	113	74-118		%REC	100	1/25/01
BTEX BY EPA 8021B		**SW8021**				Analyst: **AFM**
Methyl tert-butyl ether (MTBE)	ND	25		µg/L	100	1/25/01 4:59:20 PM
Benzene	290	5.0		µg/L	100	1/25/01 4:59:20 PM
Toluene	2300	25		µg/L	500	1/31/01 1:47:52 PM
Ethylbenzene	400	5.0		µg/L	100	1/25/01 4:59:20 PM
Xylenes, Total	870	5.0		µg/L	100	1/25/01 4:59:20 PM
Surr: 4-Bromofluorobenzene	97.8	74-118		%REC	500	1/31/01 1:47:52 PM

Qualifiers:

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

Hall Environmental Analysis Laboratory

Date: *01-Feb-01*

CLIENT: Mevatec Corp.
Work Order: 0101109
Project: HELSTF TSA

QC SUMMARY REPORT
Method Blank

Sample ID: **Reagent Blank 5m** Batch ID: **R543** Test Code: **SW8015** Units: **mg/L** Analysis Date: **1/24/01 10:00:14 AM** Prep Date:
Client ID: Run ID: **PIDFID_010125A** SeqNo: **11656**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	0.050									

Sample ID: **Reagent Blank 5m** Batch ID: **R543** Test Code: **SW8021** Units: **µg/L** Analysis Date: **1/25/01 1:17:56 PM** Prep Date:
Client ID: Run ID: **PIDFID_010125A** SeqNo: **11344**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Methyl tert-butyl ether (MTBE)	ND	2.5									
Benzene	ND	0.50									
Toluene	ND	0.50									
Ethylbenzene	ND	0.50									
1,2,4-Trimethylbenzene	ND	0.50									
1,3,5-Trimethylbenzene	ND	0.50									
Xylenes, Total	ND	0.50									

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

Hall Environmental Analysis Laboratory

Date: 01-Feb-01

CLIENT: Mevatec Corp.
Work Order: 0101109
Project: HELSTF TSA

QC SUMMARY REPORT

Laboratory Control Spike - generic

Sample ID: **8015 BS** Batch ID: **R543** Test Code: **SW8015** Units: **mg/L** Analysis Date: **1/25/01 2:12:10 AM** Prep Date:
Client ID: Run ID: **PIDFID_010125A** SeqNo: **11657**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	0.43	0.050	0.5	0	86.0	82	124	0			

Sample ID: **8015 BSD** Batch ID: **R543** Test Code: **SW8015** Units: **mg/L** Analysis Date: **1/29/01 1:04:14 PM** Prep Date: .
Client ID: Run ID: **PIDFID_010125A** SeqNo: **11658**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	0.48	0.050	0.5	0	96.0	82	124	0.43	11.0	18	

Sample ID: **8021 BS** Batch ID: **R543** Test Code: **SW8021** Units: **µg/L** Analysis Date: **1/26/01 2:52:41 AM** Prep Date:
Client ID: Run ID: **PIDFID_010125A** SeqNo: **11659**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Methyl tert-butyl ether (MTBE)	37.08	2.5	40	0	92.7	65	132	0			
Benzene	19.4	0.50	20	0	97.0	77	122	0			
Toluene	19.45	0.50	20	0.0216	97.1	81	115	0			
Ethylbenzene	19.31	0.50	20	0	96.5	84	117	0			
1,2,4-Trimethylbenzene	18.9	0.50	20	0.028	94.4	83	120	0			
1,3,5-Trimethylbenzene	19.25	0.50	20	0.0454	96.0	85	115	0			
Xylenes, Total	58.91	0.50	60	0.0374	98.1	84	116	0			

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

CLIENT: Mevatec Corp.
Work Order: 0101109
Project: HELSTF TSA

QC SUMMARY REPORT

Laboratory Control Spike Duplicate

Sample ID: **8021 BSD** Batch ID: **R543** Test Code: **SW8021** Units: **µg/L** Analysis Date: **1/26/01 3:23:55 AM** Prep Date:

Client ID: Run ID: **PIDFID_010125A** SeqNo: **11661**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Methyl tert-butyl ether (MTBE)	36.9	2.5	40	0	92.2	65	132	37.08	0.507	28	
Benzene	19.63	0.50	20	0	98.2	77	122	19.4	1.20	27	
Toluene	19.47	0.50	20	0.0216	97.3	81	115	19.45	0.115	19	
Ethylbenzene	19.4	0.50	20	0	97.0	84	117	19.31	0.486	10	
1,2,4-Trimethylbenzene	19.32	0.50	20	0.028	96.5	83	120	18.9	2.20	21	
1,3,5-Trimethylbenzene	19.58	0.50	20	0.0454	97.7	85	115	19.25	1.66	10	
Xylenes, Total	59.17	0.50	60	0.0374	98.5	84	116	58.91	0.432	13	

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

PO# 00P 2047

MEVATEC CORPORATION
P.O. Box 399
Bldg. 126
WSMR, NM 88002
(505) 678-0263

CHAIN OF CUSTODY RECORD

PAGE 1 OF 1

PROJECT NO.: 700B9
PROJECT NAME: HELSTF TSA
SAMPLER'S SIGNATURE:

DATE COLLECTED	TIME COLLECTED	SAMPLE ID	MATRIX	LAB NO.	NO. OF CONTAINERS	ANALYSIS REQUESTED: 8015/8021B	REMARKS
1-24-01	1200	HVW 01- (1-24-01)	Air		3	X	0101109-1

PROJECT INFORMATION			1. RELINQUISHED BY: (SIGNATURE)	2. RELINQUISHED BY: (SIGNATURE)	3. RECEIVED BY LABORATORY: (SIGNATURE)
PROJECT MANAGER: Ed Artiglia, P.E.	SAMPLES RECEIVED		(PRINTED NAME) Greg Watterson	(PRINTED NAME)	(PRINTED NAME)
SHIPPING ID. NO.	TOTAL NO. OF CONTAINERS		RECEIVED BY: Anne Irone	RECEIVED BY:	(COMPANY)
VIA: Fed Ex	CHAIN OF CUSTODY SEALS		(TIME / DATE) 1015 / 1/25/01	(TIME / DATE)	(TIME / DATE)
	GOOD CONDITION/CHILLED		SPECIAL INSTRUCTIONS / COMMENTS:		
	CONFORMS TO RECORD				

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Hall Environmental
Analysis Laboratory

February 21, 2001

Ed Artiglia
Mevatec Corp.
PO Box 399 Bldg. 126
WSMR, NM 88002
TEL: (505) 678-0263
FAX (505) 678-6096

RE: HELSTF TSA POL SVE Order No.: 0102074

Dear Ed Artiglia:

Hall Environmental Analysis Laboratory received 1 sample on 2/13/01 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent.

Detection limits are determined by EPA methodology. No determination of compounds below these (denoted by the ND or < sign) has been made.

Please don't hesitate to contact HEAL for any additional information or clarifications.

Sincerely,

Andy Freeman, Senior Project Manager
Nancy McDuffie, Assistant Laboratory Manager

4901 Hawkins NE, Suite A, Albuquerque, NM 87109
Ph (505) 345-3975, Fax (505) 345-4107

Hall Environmental Analysis Laboratory

Date: *21-Feb-01*

CLIENT:	Mevatec Corp.	**Client Sample ID:**	HVW01-(02/12/01)
Lab Order:	0102074	**Collection Date:**	2/12/01
Project:	HELSTF TSA POL SVE		
Lab ID:	0102074-01	**Matrix:**	AIR

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
GRO BY 8015B		**SW8015**				Analyst: **AFM**
Gasoline Range Organics (GRO)	12000	1300		µg/L	250	2/13/01
Surr: BFB	94.8	74-118		%REC	250	2/13/01
BTEX BY EPA 8021B		**SW8021**				Analyst: **AFM**
Methyl tert-butyl ether (MTBE)	ND	63		µg/L	250	2/13/01 1:22:26 PM
Benzene	87	13		µg/L	250	2/13/01 1:22:26 PM
Toluene	1500	13		µg/L	250	2/13/01 1:22:26 PM
Ethylbenzene	270	13		µg/L	250	2/13/01 1:22:26 PM
Xylenes, Total	620	13		µg/L	250	2/13/01 1:22:26 PM
Surr: 4-Bromofluorobenzene	95.7	74-118		%REC	250	2/13/01 1:22:26 PM

Qualifiers:

ND - Not Detected at the Reporting Limit

J - Analyte detected below quanititation limits

B - Analyte detected in the associated Method Blank

* - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

Hall Environmental Analysis Laboratory

Date: *21-Feb-01*

CLIENT: Souder, Miller & Associates
Work Order: 0102077
Project: Vasile's Chevron

QC SUMMARY REPORT

Method Blank

Sample ID: **Reagent Blank 5m** Batch ID: **R676** Test Code: **SW8021** Units: **µg/L** Analysis Date: **2/16/01 8:58:54 AM** Prep Date:

Client ID: Run ID: **PIDHALL_010216A** SeqNo: **14337**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Methyl tert-butyl ether (MTBE)	ND	2.5									
Benzene	ND	0.50									
Toluene	ND	0.50									
Ethylbenzene	ND	0.50									
1,2,4-Trimethylbenzene	ND	0.50									
1,3,5-Trimethylbenzene	ND	0.50									
1,2-Dichloroethane	0.0738	0.20									J
Xylenes, Total	ND	0.50									
Surr: 4-Bromofluorobenzene	18.35	0	20	0	91.8	74	118	0			
Surr: Bromochloromethane	19.1	0	20	0	95.5	70	120	0			

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

PO#00P-2047

MEVATEC CORPORATION
P.O. Box 399
Bldg. 126
WSMR, NM 88002
(505) 678-0263

CHAIN OF CUSTODY RECORD

PAGE 1 OF 1

PROJECT NO.: 70039
PROJECT NAME: HELSTF JSA POL SUE
SAMPLER'S SIGNATURE:

DATE COLLECTED	TIME COLLECTED	SAMPLE ID	MATRIX	LAB NO.	NO. OF CONTAINERS	ANALYSIS REQUESTED: 6215/8260B	REMARKS
2/12/01	1150	HVW01-(2-12-01)	air		3	X	0102074-1

PROJECT INFORMATION			1. RELINQUISHED BY: (SIGNATURE)	2. RELINQUISHED BY: (SIGNATURE)	3. RECEIVED BY LABORATORY: (SIGNATURE)
PROJECT MANAGER: Ed Arhglia	SAMPLES RECEIVED		(PRINTED NAME): Greg Watterson	(PRINTED NAME)	(PRINTED NAME): Anne Thorne
SHIPPING ID. NO.:	TOTAL NO. OF CONTAINERS		RECEIVED BY:	RECEIVED BY:	(COMPANY): HEAL
VIA: Fed Ex	CHAIN OF CUSTODY SEALS		(TIME / DATE)	(TIME / DATE)	(TIME / DATE): 0920 2/13/01
	GOOD CONDITION/CHILLED		SPECIAL INSTRUCTIONS / COMMENTS:		
	CONFORMS TO RECORD				

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Hall Environmental Analysis Laboratory

March 01, 2001

Greg Watterson
Mevatec Corp.
PO Box 399 Bldg. 126
WSMR, NM 88002
TEL: (505) 678-0263
FAX (505) 678-6096

RE: HELSTF TSA SVE System Order No.: 0102148

Dear Greg Watterson:

Hall Environmental Analysis Laboratory received 1 sample on 2/27/01 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent.

Detection limits are determined by EPA methodology. No determination of compounds below these (denoted by the ND or < sign) has been made.

Please don't hesitate to contact HEAL for any additional information or clarifications.

Sincerely,

Andy Freeman, Senior Project Manager
Nancy McDuffie, Assistant Laboratory Manager

4901 Hawkins NE, Suite A, Albuquerque, NM 87109
Ph (505) 345-3975, Fax (505) 345-4107

Hall Environmental Analysis Laboratory

Date: *01-Mar-01*

CLIENT: Mevatec Corp.
Project: HELSTF TSA SVE System
Lab Order: 0102148

Lab ID: 0102148-01
Collection Date: 2/24/01 9:15:00 AM
Client Sample ID: HVW01-(2-24-01)
Matrix: AIR

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
GRO BY 8015B		SW8015				Analyst: AFM
Gasoline Range Organics (GRO)	12000	1000		µg/L	200	2/27/01
Surr: BFB	100	74-118		%REC	200	2/27/01
BTEX BY EPA 8021B		SW8021				Analyst: AFM
Methyl tert-butyl ether (MTBE)	ND	50		µg/L	200	2/27/01 10:47:10 AM
Benzene	50	10		µg/L	200	2/27/01 10:47:10 AM
Toluene	1200	10		µg/L	200	2/27/01 10:47:10 AM
Ethylbenzene	380	10		µg/L	200	2/27/01 10:47:10 AM
Xylenes, Total	900	10		µg/L	200	2/27/01 10:47:10 AM
Surr: 4-Bromofluorobenzene	94.5	74-118		%REC	200	2/27/01 10:47:10 AM

Qualifiers:

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

Hall Environmental Analysis Laboratory

Date: *01-Mar-01*

CLIENT: Mevatec Corp.
Work Order: 0102J48
Project: HELSTF TSA SVE System

QC SUMMARY REPORT
Method Blank

Sample ID: Reagent Blank 5m | Batch ID: R735 | Test Code: SW8015 | Units: mg/L | Analysis Date: 2/23/01 | Prep Date:
Client ID: | Run ID: PIDFID_010227A | SeqNo: 15462

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	0.0276	0.050									J
Surr: BFB	19.96	0	20	0	99.8	64	118	0			

Sample ID: ext blk | Batch ID: R735 | Test Code: SW8021 | Units: mg/Kg | Analysis Date: 2/28/01 11:40:05 AM | Prep Date:
Client ID: | Run ID: PIDFID_010228A | SeqNo: 15643

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Methyl tert-butyl ether (MTBE)	ND	0.10									
Benzene	ND	0.050									
Toluene	ND	0.050									
Ethylbenzene	ND	0.050									
Xylenes, Total	ND	0.050									
Surr: 4-Bromofluorobenzene	1.019	0	1	0	102	74	118	0			

Sample ID: Reagent Blank 5m | Batch ID: R735 | Test Code: SW8021 | Units: µg/L | Analysis Date: 2/27/01 8:16:13 AM | Prep Date:
Client ID: | Run ID: PIDFID_010227A | SeqNo: 15461

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Methyl tert-butyl ether (MTBE)	ND	2.5									
Benzene	ND	0.50									
Toluene	ND	0.50									
Ethylbenzene	ND	0.50									
1,2,4-Trimethylbenzene	ND	0.50									
1,3,5-Trimethylbenzene	ND	0.50									
Xylenes, Total	ND	0.50									
Surr: 4-Bromofluorobenzene	20.93	0	20	0	105	74	118	0			

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

Hall Environmental Analysis Laboratory

Date: *01-Mar-01*

CLIENT: Mevatec Corp.
Work Order: 0102148
Project: HELSTF TSA SVE System

QC SUMMARY REPORT
Laboratory Control Spike - generic

Sample ID: 8015 bs | Batch ID: R735 | Test Code: SW8015 | Units: mg/L | Analysis Date: 2/27/01 | Prep Date:
Client ID: | Run ID: PIDFID_010227A | SeqNo: 15604

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	0.4818	0.050	0.5	0.0276	90.8	82	124	0			
Surr: BFB	19.48	0	0	0	0	0	0	0			

Sample ID: 8015 bsd | Batch ID: R735 | Test Code: SW8015 | Units: mg/L | Analysis Date: 2/27/01 | Prep Date:
Client ID: | Run ID: PIDFID_010227A | SeqNo: 15606

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	0.4948	0.050	0.5	0.0276	93.4	82	124	0.4818	2.66	18	
Surr: BFB	19.47	0	0	0	0	0	0	19.48	0.0267	0	

Sample ID: 8021 bs | Batch ID: R735 | Test Code: SW8021 | Units: µg/L | Analysis Date: 2/27/01 6:42:00 PM | Prep Date:
Client ID: | Run ID: PIDFID_010227A | SeqNo: 15602

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Methyl tert-butyl ether (MTBE)	37.69	2.5	40	0	94.2	65	132	0			
Benzene	20.36	0.50	20	0	102	77	122	0			
Toluene	20.56	0.50	20	0	103	81	115	0			
Ethylbenzene	21.17	0.50	20	0	106	84	117	0			
1,2,4-Trimethylbenzene	19.76	0.50	20	0	98.8	83	120	0			
1,3,5-Trimethylbenzene	20.27	0.50	20	0	101	85	115	0			
Xylenes, Total	64.96	0.50	60	0	108	84	116	0			
Surr: 4-Bromofluorobenzene	20.88	0	0	0	0	0	0	0			

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

CLIENT: Mevatec Corp.
Work Order: 0102148
Project: HELSTF TSA SVE System

QC SUMMARY REPORT
Laboratory Control Spike Duplicate

Sample ID: 8021 bsd | Batch ID: R735 | Test Code: SW8021 | Units: µg/L | Analysis Date: 2/27/01 7:13:47 PM | Prep Date:
Client ID: | Run ID: PIDFID_010227A | SeqNo: 15503

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Methyl tert-butyl ether (MTBE)	38.69	2.5	40	0	96.7	65	132	37.69	2.60	28	
Benzene	19.23	0.50	20	0	96.2	77	122	20.36	5.67	27	
Toluene	19.64	0.50	20	0	98.2	81	115	20.56	4.58	19	
Ethylbenzene	19.87	0.50	20	0	99.3	84	117	21.17	6.37	10	
1,2,4-Trimethylbenzene	18.31	0.50	20	0	91.5	83	120	19.76	7.63	21	
1,3,5-Trimethylbenzene	19.04	0.50	20	0	95.2	85	115	20.27	6.26	10	
Xylenes, Total	60.7	0.50	60	0	101	84	116	64.96	6.77	13	
Surr: 4-Bromofluorobenzene	21.47	0	0	0	0	0	0	20.88	2.78	0	

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

PO# 00P-2047

MEVATEC CORPORATION
P.O. Box 398
Bldg. 126
WSMR, NM 88002
(505) 678-0263

CHAIN OF CUSTODY RECORD

PAGE 1 OF 1

PROJECT NO.: 70089
PROJECT NAME: HELSTF TSA SVE System
SAMPLER'S SIGNATURE:

DATE COLLECTED	TIME COLLECTED	SAMPLE ID	MATRIX	LAB NO.	NO. OF CONTAINERS	ANALYSIS REQUESTED: 8260/8021B	REMARKS
2-24-01	0915	HUW 01-(2-24-01)	Air	0102148-1	3	X	0102148-1

PROJECT INFORMATION			1. RELINQUISHED BY: (SIGNATURE)	2. RELINQUISHED BY: (SIGNATURE)	3. RECEIVED BY LABORATORY: (SIGNATURE)
PROJECT MANAGER: Artiglia	SAMPLES RECEIVED		(PRINTED NAME): Greg Watterson	(PRINTED NAME)	(PRINTED NAME)
SHIPPING ID. NO.	TOTAL NO. OF CONTAINERS		RECEIVED BY:	RECEIVED BY:	(COMPANY)
	CHAIN OF CUSTODY SEALS		(TIME / DATE): 02-27-01 0930	(TIME / DATE)	(TIME / DATE)
VIA: Fed Ex	GOOD CONDITION/CHILLED		SPECIAL INSTRUCTIONS / COMMENTS: This is the last sample for this Purchase Order.		
	CONFORMS TO RECORD				

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APPENDIX N

GASOLINE REMOVAL SPREADSHEET

Gasoline Removal Status by Soil Vapor Extraction at the HELSTF TSA POL Station

Converstion Factors

BTU in propane: 2520.0 btu/cubic ft
Engine BTU requirements: 252000.0 BTU/hour at 2000 rpm
conversion to lbs/hr: 20500.0 BTU/lb of gas

lbs to gallon conversion: 6.3 lbs of gas per gallon
Reported Spill Volume: 1485.0 gallons

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R
	Date	Operational Hours (hrs)	Delta Hours (hrs)	Cumulative Operation Hours (hrs)	Initial rpm Setting (rpm)	10% Reduction in rpm (rpm)	BTU Rqmnt at rpm Setting (BTU)	Propane Flow-Rate (cubic ft/hr)	Gas pumped/ Bailed from Well (gal)	Water pumped/ Bailed from Well (gal)	Lbs Gas Burned During Delta Hours (lbs gas burned)	Gallons Gas Burned During Delta Hours (gal)	Cumulative Gasoline Burned (gal)	Total Cumulative Gas Removed (gal)	Average Gasoline Burn Rate (gal/hr)	Propane Use during Delta T (gal)	Cumulative Propane Consumed (gal)	Average Propane Use Consumption Rate (gal/hr)
1	10/17/2000	5254.5	0.0	0.0	2000.0	1800.0	228000.0	0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.0	0.0	0.0
2	10/18/2000	5268.3	13.8	13.8	Off	0.0	0.0	0.0	0.00	0.00	153.5	24.3	24.3	24.3	1.76	0.0	0.0	0.0
3	10/18/2000	5269.6	1.3	15.1	2050.0	1845.0	233400.0	0.0	0.00	0.00	0.0	0.0	24.3	24.3	0.00	0.0	0.0	0.0
4	10/19/2000	5290.5	20.9	36.0	2300.0	2070.0	256200.0	0.0	0.00	0.00	238.0	37.7	62.0	62.0	1.80	0.0	0.0	0.0
5	10/20/2000	5320.7	30.2	66.2	2250.0	2025.0	253500.0	0.0	0.00	0.00	377.4	59.8	121.8	121.8	1.98	0.0	0.0	0.0
6	10/23/2000	5342.4	21.7	87.9	2150.0	1935.0	244200.0	0.0	0.00	0.00	268.3	42.5	164.4	164.4	1.96	0.0	0.0	0.0
7	10/24/2000	5363.8	21.4	109.3	2150.0	1935.0	244200.0	0.0	0.00	0.00	254.9	40.4	204.8	204.8	1.89	0.0	0.0	0.0
8	10/25/2000	5387.6	23.8	133.1	2150.0	1935.0	244200.0	0.0	0.00	0.00	283.5	44.9	249.7	249.7	1.89	0.0	0.0	0.0
9	10/26/2000	5411.6	24.0	157.1	2150.0	1935.0	244200.0	0.0	0.00	0.00	285.9	45.3	295.0	295.0	1.89	0.0	0.0	0.0
10	10/26/2000	5413.5	1.9	159.0	2100.0	1890.0	244200.0	0.0	0.25	0.00	22.6	3.6	298.6	298.8	1.89	0.0	0.0	0.0
11	10/27/2000	5439.3	25.8	184.8	2150.0	1935.0	244200.0	0.0	3.45	2.35	307.3	48.7	347.3	351.0	1.89	0.0	0.0	0.0
12	10/30/2000	5470.9	31.6	216.4	1950.0	1755.0	222600.0	0.0	0.00	0.00	376.4	59.7	407.0	410.7	1.89	0.0	0.0	0.0
13	10/31/2000	5482.0	11.1	227.5	2100.0	1890.0	238800.0	0.0	0.00	0.00	120.5	19.1	426.1	429.8	1.72	0.0	0.0	0.0
14	10/31/2000	5490.1	8.1	235.6	2000.0	1800.0	228000.0	0.0	0.75	1.15	94.4	15.0	441.0	445.5	1.85	0.0	0.0	0.0
15	11/01/2000	5504.6	14.5	250.1	1625.0	1462.5	187200.0	0.0	0.00	0.00	161.3	25.6	466.6	471.0	1.76	0.0	0.0	0.0
16	11/01/2000	5505.1	0.5	250.6	1800.0	1620.0	206400.0	0.0	0.25	2.50	4.6	0.7	467.3	472.0	1.45	0.0	0.0	0.0
17	11/01/2000	5512.9	7.8	258.4	1750.0	1575.0	201000.0	0.0	0.00	0.00	78.5	12.4	479.7	484.4	1.60	0.0	0.0	0.0
18	11/01/2000	5513.4	0.5	258.9	2000.0	1800.0	228000.0	0.0	0.30	1.80	4.9	0.8	480.5	485.5	1.55	0.0	0.0	0.0
19	11/02/2000	5523.6	10.2	269.1	1950.0	1755.0	222600.0	0.0	0.00	0.00	113.4	18.0	498.5	503.5	1.76	0.0	0.0	0.0
20	11/02/2000	5530.6	7.0	276.1	1790.0	1611.0	205200.0	0.0	0.40	2.30	76.0	12.0	510.5	515.9	1.72	0.0	0.0	0.0
21	11/02/2000	5531.6	1.0	277.1	2010.0	1809.0	229200.0	30.0	0.00	0.00	10.0	1.6	512.1	517.5	1.59	0.0	0.0	0.0
22	11/03/2000	5535.1	3.5	280.6	2000.0	1800.0	228000.0	30.0	0.00	0.00	31.4	5.0	517.1	522.5	1.42	1.7	1.7	0.5
23	11/03/2000	5540.8	5.7	286.3	2100.0	1890.0	238800.0	30.0	0.25	0.85	50.8	8.0	525.2	530.8	1.41	2.8	4.6	0.5
24	11/05/2000	5572.6	31.8	318.1	off	0.0	0.0	0.0	0.00	0.00	300.1	47.6	572.7	578.4	1.50	15.8	20.3	0.5
25	11/06/2000	5572.6	0.0	318.1	2000.0	1800.0	228800.0	30.0	0.00	0.00	0.0	0.0	572.7	578.4	0.00	0.0	20.3	0.0
26	11/06/2000	5577.7	5.1	323.2	2100.0	1890.0	238800.0	30.0	0.00	0.00	45.6	7.2	579.9	585.6	1.42	2.5	22.9	0.5
27	11/07/2000	5594.5	16.8	340.0	1920.0	1728.0	219600.0	38.0	0.00	0.00	158.5	25.1	605.1	610.7	1.50	8.3	31.2	0.5
28	11/07/2000	5595.0	0.5	340.5	2000.0	1800.0	228000.0	62.0	0.00	0.00	4.0	0.6	605.7	611.3	1.25	0.3	31.5	0.6
29	11/07/2000	5601.0	6.0	346.5	1980.0	1782.0	225600.0	67.0	0.00	0.00	39.3	6.2	611.9	617.6	1.04	6.1	37.6	1.0
30	11/08/2000	5610.0	9.0	355.5	off	0.0	0.0	0.0	0.00	0.00	54.6	8.6	620.6	626.2	0.96	10.0	47.6	1.1
31	11/13/2000	5611.6	1.6	357.1	2100.0	1890.0	238800.0	40.0	0.00	0.00	0.0	0.0	620.6	626.2	0.00	0.0	47.6	0.0
32	11/14/2000	5628.6	17.0	374.1	2000.0	1800.0	228000.0	40.0	0.00	0.00	147.9	23.4	644.0	649.6	1.38	11.2	58.8	0.7
33	11/15/2000	5649.5	20.9	395.0	2000.0	1800.0	228000.0	40.0	0.15	1.00	170.8	27.1	671.1	676.9	1.30	13.8	72.7	0.7
34	11/16/2000	5666.0	16.5	411.5	off	0.0	0.0	0.0	0.00	0.00	134.8	21.4	692.4	698.2	1.30	10.9	83.6	0.7
35	11/17/2000	5666.0	0.0	411.5	2000.0	1800.0	228000.0	45.0	0.00	0.00	0.0	0.0	692.4	698.2	0.00	0.0	83.6	0.0
36	11/20/2000	5697.3	31.3	442.8	2000.0	1800.0	228000.0	75.0	0.00	0.00	244.2	38.7	731.1	736.9	1.24	23.3	106.8	0.7
37	11/21/2000	5706.8	9.5	452.3	off	0.0	0.0	0.0	0.00	0.00	53.1	8.4	739.6	745.4	0.89	11.8	118.6	1.2
38	11/22/2000	5707.1	0.3	452.6	2000.0	1800.0	228000.0	42.0	0.00	0.00	0.0	0.0	739.6	745.4	0.00	0.0	118.6	0.0
39	11/24/2000	5724.0	16.9	469.5	2000.0	1800.0	228000.0	46.0	0.00	0.00	135.6	21.5	761.0	766.8	1.27	11.7	130.3	0.7
40	11/27/2000	5765.0	41.0	510.5	off	0.0	0.0	0.0	0.00	0.00	316.9	50.2	811.3	817.1	1.22	31.2	161.5	0.8
41	11/27/2000	5765.0	0.0	510.5	2000.0	1800.0	228000.0	51.0	1.25	1.25	0.0	0.0	811.3	818.3	0.00	0.0	161.5	0.0
42	11/27/2000	5766.4	1.4	511.9	2000.0	1800.0	228000.0	55.0	1.50	0.00	10.3	1.6	812.9	821.5	1.17	1.2	162.7	0.8
43	11/28/2000	5781.5	15.1	527.0	2000.0	1800.0	228000.0	70.0	0.80	0.30	106.7	16.9	829.8	839.2	1.12	13.7	176.4	0.9
44	11/29/2000	5801.4	19.9	546.9	off	0.0	0.0	0.0	0.80	1.00	118.6	18.8	848.6	858.8	0.94	23.0	199.4	1.2
45	11/29/2000	5801.4	0.0	546.9	1950.0	1755.0	222600.0	75.0	0.00	0.00	0.0	0.0	848.6	858.8	0.00	0.0	199.4	0.0
46	11/30/2000	5824.4	23.0	569.9	2000.0	1800.0	228000.0	75.0	0.75	2.00	122.5	19.4	868.0	878.9	0.84	28.5	227.9	1.2
47	12/01/2000	5847.7	23.3	593.2	2000.0	1800.0	228000.0	85.0	0.75	2.00	130.0	20.7	888.7	900.3	0.89	28.9	256.8	1.2
48	12/04/2000	5913.0	65.3	658.5	off	0.0	0.0	0.0	0.00	0.00	316.9	50.2	938.9	950.5	0.77	91.7	348.5	1.4
49	12/05/2000	5913.3	0.3	658.8	2100.0	1890.0	238800.0	72.0	1.00	1.00	0.0	0.0	938.9	951.5	0.00	0.0	348.5	0.0
50	12/06/2000	5932.3	19.0	677.8	2000.0	1800.0	228000.0	80.0	1.50	3.25	120.4	19.1	958.0	972.1	1.00	22.6	371.1	1.2
51	12/07/2000	5950.0	17.7	695.5	off	0.0	0.0	0.0	0.00	0.00	92.4	14.6	972.6	986.8	0.83	23.4	394.5	1.3
52	12/07/2000	5955.8	0.0	695.5	1900.0	1710.0	217200.0	55.0	1.15	0.60	0.0	0.0	972.6	987.9	0.00	0.0	394.5	0.0
53	12/11/2000	6053.9	98.1	793.6	1900.0	1710.0	217200.0	75.0	1.30	3.50	641.4	101.7	1074.3	1090.9	1.04	89.2	483.7	0.9
54	12/12/2000	6072.6	18.7	812.3	1950.0	1755.0	222600.0	83.0	0.50	2.00	94.7	15.0	1089.3	1106.4	0.80	23.2	506.9	1.2
55	12/13/2000	6093.0	20.4	832.7	2000.0	1800.0	228000.0	90.0	0.25	1.75	96.6	15.3	1104.6	1121.9	0.75	28.0	534.8	1.4
56	12/13/2000	6095.5	2.5	835.2	2000.0	1800.0	228000.0	84.0	0.00	0.00	11.2	1.8	1106.4	1123.7	0.71	3.7	538.6	1.5
57	12/14/2000	6120.0	24.5	859.7	1950.0	1755.0	222600.0	85.0	0.50	1.75	120.7	19.1	1125.5	1143.3	0.78	34.0	572.6	1.4
58	12/15/2000	6148.9	28.9	888.6	off	0.0	0.0	0.0	0.30	0.80	132.6	21.0	1146.5	1164.7	0.73	40.6	613.2	1.4
59	12/18/2000	6148.9	0.0	888.6	2000.0	1800.0	228000.0	95.0	0.00	0.00	0.0	0.0	1146.5	1164.7	0.00	0.0	613.2	0.0
60	12/19/2000	6171.3	22.4	911.0	1900.0	1710.0	217200.0	78.0	1.25	0.75	92.2	14.6	1161.1	1180.5	0.65	35.2	648.3	1.6
61	12/20/2000	6195.5	24.2	935.2	2000.0	1800.0	228000.0	84.0	1.50	1.25	117.2	18.6	1179.7	1200.6	0.77	31.2	679.5	1.3
62	12/21/2000	6218.1	22.6	957.8	off	0.0	0.0	0.0	0.75	1.00	111.3	17.6	1197.3	1219.0	0.78	31.4	710.9	1.4
63	12/28/2000	6218.1	0.0	957.8	2000.0	1800.0	228000.0	115.0	0.00	0.00	0.0	0.0	1197.3	1219.0	0.00	0.0	710.9	0.0
64	12/29/2000	6230.7	12.6	970.4	off	0.0	0.0	0.0	0.00	0.00	33.3	5.3	1202.6	1224.3	0.42	23.9	734.8	1.9
65	01/11/2001	6232.8	0.0	970.4	2000.0	1800.0	228000.0	85.0	0.00	0.00	0.0	0.0	1202.6	1224.3	0.00	0.0	734.8	0.0
66	01/12/2001	6256.0	23.2	993.6	2000.0	1800.0	228000.0	82.0	1.00	1.10	112.6	17.8	1220.4	1243.1	0.77	32.6	767.4	1.4
67	01/16/2001	6349.9	93.9	1087.5	2000.0	1800.0	228000.0	85.0	4.00	2.50	476.4	75.5	1295.9	1322.6	0.80	127.2	894.7	1.4
68	01/17/2001	6372.1	22.2	1109.7	1800.0	1710.0	217200.0	90.0	0.10	1.10	107.7	17.1	1313.0	1339.8	0.77	31.2	925.8	1.4
69	01/18/2001	6399.5	27.4	1137.1	2000.0	1800.0	228000.0	95.0	2.25	1.50	108.4	17.2	1330.2	1359.2	0.63	40.7	966.6	1.5
70	01/22/2001	6495.4	95.9	1233.0	2000.0	1800.0	228000.0	100.0	3.75	4.00	394.6	62.5	1392.7	1425.5	0.65	150.5	1117.1	1.6
71	01/23/2001	6518.3	22.9	1255.9	2000.0	1800.0	228000.0	95.0	0.30	0.90	85.8	13.6	1406.3	1439.4	0.59	37.8	1155.0	1.7
72	01/24/2001	6540.5	22.2	1278.1	2000.0	1800.0	228000.0	95.0	0.75	1.50	91.4	14.5	1420.8	1454.6	0.65	34.9	1189.8	1.6
73	01/25/2001	6566.6	26.1	1304.2	2000.0	1800.0	228000.0	100.0	0.50	0.50	107.4	17.0	1437.8	1472.1	0.65	41.0	1230.8	1.6
74	01/26/2001	6590.2	23.6	1327.8	2000.0	1800.0	228000.0	104.0	0.25	2.00	88.4	14.0	1451.9	1486.4	0.59	39.0	1269.8	1.7
75	01/29/2001	6662.0	71.8	1399.6	2000.0	1800.0	228000.0	100.0	1.25	3.75	247.8	39.3	1491.1	1526.9	0.55	123.4	1393.2	1.7
76	01/30/2001	6686.3	24.3	1423.9	2000.0	1800.0	228000.0	107.0	0.60	1.00	91.0	14.4	1505.6	1542.0	0.59	40.2	1433.3	1.7
77	02/01/2001	6728.8	42.5	1466.4	2000.0	1800.0	228000.0	111.0	1.25	1.50	137.3	21.8	1527.3	1565.0	0.51	75.1	1508.5	1.8
78	02/05/2001	6828.4	99.6	1566.0	2000.0	1800.0	228000.0	105.0	1.60	3.40	292.3	46.3	1573.6	1612.9	0.47	182.7	1691.2	1.8
79	02/07/2001	6876.9	48.5	1614.5	2000.0	1800.0	228000.0	107.0	0.10	1.50	163.8	26.0	1599.6	1638.9	0.54	84.2	1775.3	1.7
80	02/09/2001	6921.3	44.4	1658.9	2000.0	1800.0	228000.0	108.0	0.50	2.50	143.4	22.7	1622.3	1662.2	0.51	78.5	1853.8	1.8
81	02/12/2001	6994.0	72.7	1731.6	2000.0	1800.0	228000.0	108.0	0.50	3.00	229.5	36.4	1658.7	1699.0	0.50	129.7	1983.6	1.8
82	02/13/2001	7015.9	21.9	1753.5	2000.0	1800.0	228000.0	108.0	0.10	0.20	69.1	11.0	1669.6	1710.1	0.50	39.1	2022.7	1.8
83	02/15/2001	7066.3	50.4	1803.9	2000.0	1800.0	228000.0	110.0	0.50	2.50	159.1	25.2	1694.9	1735.8	0.50	89.9	2112.6	1.8
84	02/20/2001	7184.6	118.3	1922.2	2000.0	1800.0	228000.0	110.0	0.25	4.00	355.9	56.4	1751.3	1792.5	0.48	215.0	2327.7	1.8
85	02/21/2001	7208.6	24.0	1946.2	0.0	0.0	0.0	0.0	0.00	0.00	72.2	11.4	1762.7	1803.9	0.48	43.6	2371.3	1.8
86	02/21/2001	7211.0	0.0	1946.2	2000.0	1800.0	228000.0	115.0	0.00	0.00	0.0	0.0	1762.7	1803.9	0.00	0.0	2371.3	0.0
87	02/24/2001	7277.4	66.4	2012.6	2000.0	1800.0	228000.0	0.0	0.00	0.00	175.3	27.8	1790.5	1831.7	0.42	126.2	2497.5	0.0
								Total:	41.20	74.60								

SVE System removed from service on 2/24/01.