

**3R - 391**

# **REPORTS**

**DATE:**

**Dec. 2003**

3R 0391

# ENVIROTECH INC.

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

# CHEVRONTEXACO INC.

## GALLEGOS GALLUP SAND UNIT PIT CLOSURE REPORT

SAN JUAN COUNTY  
NEW MEXICO

RECEIVED

---

JAN 12 2004

Oil Conservation Division  
Environmental Bureau

PROJECT # 01079-003

DECEMBER 2003

# ENVIROTECH INC.

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

January 8, 2004

Project No. 01079-003

Mr. Bill Olsen  
Energy, Minerals, and Natural Resources  
State of New Mexico Oil Conservation Division  
1220 S. St. Francis Road  
Santa Fe, New Mexico 87501

Phone (505) 476-3491

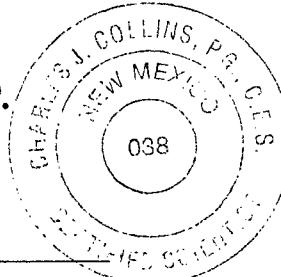
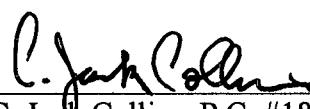
## RE: CHEVRON TEXACO GALLEGOS SAND UNIT PIT CLOSURE REPORT

Dear Ms. Cowherd:

Enclosed please find the report titled *Gallegos Gallup Sand Unit Pit Closure Report* for the ChevronTexaco unlined pit remediation at Gallegos Gallup Sand Unit, San Juan County, New Mexico. Mr. Denny Foust asked us to send you a copy for your information.

Should you have any questions or need additional information, please call our office at (800) 362-1865.

Respectfully Submitted,  
**ENVIROTECH, INC.**



C. Jack Collins, P.G. #1822  
Chief Environmental Scientist/Hydrogeologist  
NM CES # 038  
[jcollins@envirotech-inc.com](mailto:jcollins@envirotech-inc.com)

CC: Bill Freeman, NNEPA  
Jim Walker, USEPA Region IX  
Denny Foust, OCD  
Michelle Cowherd, Chevron Texaco

KMH/enviro/projects/non-pst/chevrontexaco/Gallegos/dec03/ cvrltr.doc

**CHEVRONTEXACO INC.**  
**GALLEGOS GALLUP SAND UNIT**  
**PIT CLOSURE REPORT**  
**SAN JUAN COUNTY, NEW MEXICO**

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## **INTRODUCTION**

Envirotech Inc. of Farmington, New Mexico, was contracted by ChevronTexaco Inc. to provide oversight for monitor well plugging and abandoning and excavation at an unlined earthen pit. The pit is referred to as the Gallegos Gallup Sand Unit disposal pit. It appears that this unlined pit has been out of service for some time but could have been utilized during the 1950s and 1960s. This pit is located near Gallegos Canyon in Section 7, Township 26N, Range 11W, San Juan County, New Mexico. This pit is located on the Navajo Indian Reservation and is within the NAPI irrigation project. It is accessible by the El Paso Gas Chaco Plant blacktop (CR 7100) approximately 5 miles west from State Highway 550, 12 miles south of Bloomfield, NM and an unimproved dirt road that is part of the oil and gas fields in the area. The location of the pit is shown on *Figure 1: Vicinity Map*.

Previous work at this location included installation of five (5) monitor wells, soil and groundwater sampling, and reporting. This work was conducted during September 2001 and documented in the report "Gallegos Gallup Sand Unit" dated September 20, 2001. An additional well was installed during December of 2002 to test if water in the bedrock unit had been impacted by hydrocarbons. The result of this work is documented in the report "Gallegos Gallup Sand Unit Additional Pit Assessment" dated December 2002.

## **SCOPE OF WORK**

The scope of work included preparation of a pit closure work plan to the Navajo Nation EPA (NNEPA) and the Region IX USEPA (EPA), monitor well abandonment, excavation and site disposal of hydrocarbon impacted soil from the unlined pit, backfilling with clean fill soil, sampling and documenting the pit closure. Representatives of the Region IX USEPA and Navajo Nation EPA had previously approved a cleanup level of 1,000 ppm TPH for the hydrocarbon-impacted soil in the pit in accordance with the current BLM Guidelines that will adequately protect the environment. The work plan is included as *Appendix D: Workplan*.

The work was undertaken with a ChevronTexaco approved health and safety plan and in accordance with applicable OSHA regulations.

## **DESCRIPTION OF WORK**

### **Tuesday, November 4, 2003**

Work began with the plugging and abandoning of six (6) on site monitor wells. The wells had the above ground well protector removed and the well boring grouted to the surface with a cement and bentonite slurry mixture. Four (4) temporary survey reference points were surveyed in to provide grade control during and after the excavation.

### **Monday, November 10, 2003**

An excavator and front-end loader was moved onto site for site preparation. The stockpile area was cleared of brush. The fence was removed and the existing berms were removed and

stockpiled on site for later use as backfill. The overburden around the perimeter of the pit was removed and stockpiled.

**Tuesday, November 11, 2003**

A second front-end loader was moved on site. Excavation and stockpiling of contaminated soil began. Contaminated soil was checked in the field by using a photo ionization detector (OVM) using the headspace method. Field headspace limits had previously been established with NNEPA and USEPA at 100 ppm for determining clean or contaminated soil as per the work plan. By the end of the day the excavation was at a depth of approximately 25 feet on the south side of the pit. Headspace measurements were still above the 100 ppm level; however, it was deemed impracticable to excavate deeper due to the limits of the equipment. Samples were collected using the excavator bucket from two (2) points from the south pit wall for laboratory analysis. Site photos of the excavation are included as *Appendix E: Site Photos*.

**Wednesday, November 12, 2003**

Excavation of the pit continued along the north and east sides. OVM headspace readings continued to be above 100 ppm at the bottom of the pit. Additional soil samples were collected from the pit walls and bottom for laboratory analysis. Concluding the workday, approximately 4,315 yards of material had been removed from the excavation and approximately 1,856 yards were removed for offsite disposal at Envirotech's Soil Remediation Facility Landfarm #2; see *Appendix B: Bill of Ladings*. The excavation was approximately 45' x 45' x 25' deep. The outline of the excavation, benches and the volume calculations are shown on *Figure 3: Site Excavation Map*. Volume calculations were made using the area of each cell and the average depth. The amount of clean overburden was the difference between the total volume and the amount of contaminated soil (deflated by 1.25) delivered to the landfarm. Excavation activities are represented in *Figure 4: West-East Cross-Section* and *Figure 5: North-South Cross-Section*. Each uses monitor well MW-7 as a reference point.

**Thursday, November 13, 2003**

Representatives of NNEPA and EPA toured the site. Removal of the stockpiled contaminated soil for off-site disposal continued.

**Friday, November 14, 2003**

No work was conducted.

**Monday, November 17, 2003**

No work was conducted.

**Tuesday, November 18, 2003**

No work was conducted.

**Wednesday, November 19, 2003**

A meeting was held with NNEPA & EPA to obtain permission to backfill and close the pit. It was agreed by the parties in attendance that the major portion of the hydrocarbon impacted soil

had been removed and that it would be impractical to remove the remaining soil by excavation due to safety and cost concerns. Permission was obtained verbally to backfill and close the excavation. An oxidizing solution would be applied to the excavation walls and floor prior to backfill to help in natural attenuation of any remaining hydrocarbon impacted soil. A monitor well would be installed in the center of the excavation to monitor any impact to groundwater and determine if natural attenuation was occurring.

**Thursday, November 20, 2003**

Backfill and compaction of the excavation was started using a front end loader and excavator.

**Friday, November, 21, 2003**

Backfill and compaction activities continued.

**Monday, November 24, 2003**

Backfill and compaction activities continued.

**Tuesday, November 25, 2003**

Backfill and compaction activities were completed. Final grading of the site was completed. Reseeding of the site has not been completed and will be postponed until early spring to take advantage of better planting weather.

**Wednesday, November 26, 2003**

Monitor well MW-7 was installed to a depth of 45 feet below ground level.

**Thursday, November 27 thru November 30, 2003**

No work was conducted due to the extended holiday weekend.

**Monday, December 1, 2003**

Monitor well MW-7 was purged by hand using a disposable bailer and sampled for BTEX using EPA Method 8021 and for Cations/Anions. The top of casing elevation and ground level for MW-7 was surveyed in to the existing reference points.

**SOIL IMPACT**

The seven (7) soil samples collected from the excavation varied from < 0.2 ppm TPH at 25 feet on the south wall to 4,800 ppm TPH at 25 feet on the north wall. BTEX analysis showed a total BTEX of 0.05 ppm at 20 feet on the south wall to 3.29 ppm at the northwest corner at 25 feet of the excavation.

Monitor well MW-7 was drilled and completed on November 26, 2003. Three (3) soil samples were collected for laboratory analysis from MW-7, two from near the water table and one from the total depth of 45 feet. Samples were collected in clean 5-foot continuous split spoon samplers. Soil samples were analyzed for BTEX per EPA Method 8021B and for Total Petroleum Hydrocarbons (TPH) per EPA Method 8015B. Total BTEX varied from 0.73 ppm at

45 feet to 2.63 ppm at 33.5 feet. TPH varied from 1,420 ppm at 45 feet to 4,260 ppm at 33.5 feet using USEPA Method 8015B. These results show the lighter ends of the hydrocarbons are no longer present and the remaining hydrocarbons are the heavier fractions, which are less soluble and less mobile and do not readily go into solution. Thin zones of hydrocarbon-saturated sand were noted in the lithology near the water table. Based on monitor well MW-7 it appears there is approximately 2.5 feet of hydrocarbon-impacted soil above the present water table. The well completion and lithology of the samples are shown in **Figure 6: Monitor Well Completion Diagram/Lithology Log**.

The soil sample analyses are summarized in **Table 1: Laboratory Results of Soil Sample Analyses (EPA Method 8015)**. Laboratory Certificates are included in **Appendix A: Laboratory Analysis**. Field notes are included in **Appendix C: Field Notes**.

#### **GROUNDWATER IMPACT**

A water level measurement was taken from MW-7 on December 1, 2003. The water level was 34.22 feet from the top of casing or 31.72 feet below ground level. This measurement is consistent with measurements made previously on the other wells prior to the excavation.

Water samples were collected from MW-7 on December 1, 2003. Samples were analyzed for benzene, toluene, ethylbenzene, and total xylenes (BTEX) per EPA Method 8021B. All BTEX components except benzene were below the EPA's recommended groundwater standards. Benzene was 14.9 ppb, which is slightly above the groundwater standard of 5 ppb. A summary of the BTEX water analyses is listed in **Table 2: Laboratory Results of Water Sample Analyses (EPA Method 8021B)**.

Based on the water sample collected December 1, 2003, ground water has been slightly impacted. This impacted ground water is most likely a result of the activities at the excavation and should be monitored during the following year to determine if it is naturally attenuating as expected.

#### **WATER QUALITY**

Water from monitor well MW-7 would be formally classified as sodium sulfate type waters; see **Table 3: Laboratory Results of Water Sample Analyse (Cation/Anion)**.

#### **RECOMMENDATIONS**

Results from the soil and groundwater investigations at the Gallegos Gallup Sand Unit Pit indicate groundwater has been slightly impacted. To insure the future protection of the existing shallow groundwater, it is recommended that the site be monitored on a long-term basis to insure natural attenuation is occurring.

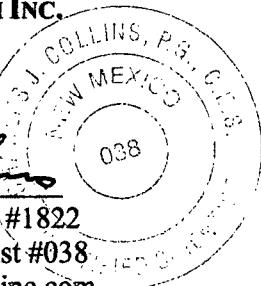
**STATEMENT OF LIMITATIONS**

Envirotech performed pit remediation, drilling, soil and water sampling, analysis, and reporting at the ChevronTexaco Inc. Gallegos Gallup Sand Unit Pit near Gallegos Canyon, New Mexico. The work and services provided by Envirotech were under the guidelines of the USEPA, NNEPA, and BIA. All observations and conclusions provided here are based on the information and current site conditions found during this investigation.

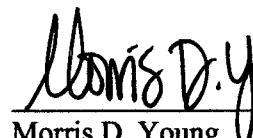
The undersigned has conducted this service at the above referenced site. This work has been conducted and reported in accordance with generally accepted professional practices in geology, engineering, environmental chemistry, and hydrogeology.

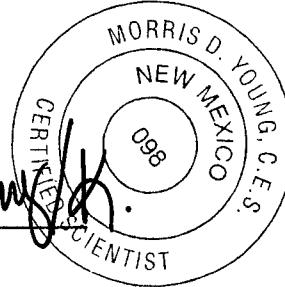
Respectfully Submitted,  
**ENVIROTECH INC.**

  
C. Jack Collins, P.G. #1822  
NM Certified Scientist #038  
[jcollins@envirotech-inc.com](mailto:jcollins@envirotech-inc.com)



Reviewed by:

  
Morris D. Young  
President  
NMCES #098  
[myoung@envirotech-inc.com](mailto:myoung@envirotech-inc.com)



## **FIGURES**

**Figure 1, Vicinity Map**

**Figure 2, Site Map**

**Figure 3, Site Excavation Map**

**Figure 4, West – East Cross - Section**

**Figure 5, North – South Cross – Section**

**Figure 6. Monitor Well Completion /  
Lithology Log MW-7**



Source: Gallegos Trading Post and Carson Trading Post, New Mexico 7.5 Minute U.S.G.S. Topographic Quadrangle Map  
 Scale: 1:24,000 1" = 2000'

ChevronTexaco Inc.  
 Gallegos Gallup Sand Unit  
 Pit Closure  
 NWSE S7 T26N R11W

Project#01079-003

Date Drawn: 09/20/01

## ENVIROTECH INC.

ENVIRONMENTAL SCIENTISTS & ENGINEERS  
 5796 U.S. HIGHWAY 64  
 FARMINGTON, NEW MEXICO 87401  
 PHONE (505) 632-0615

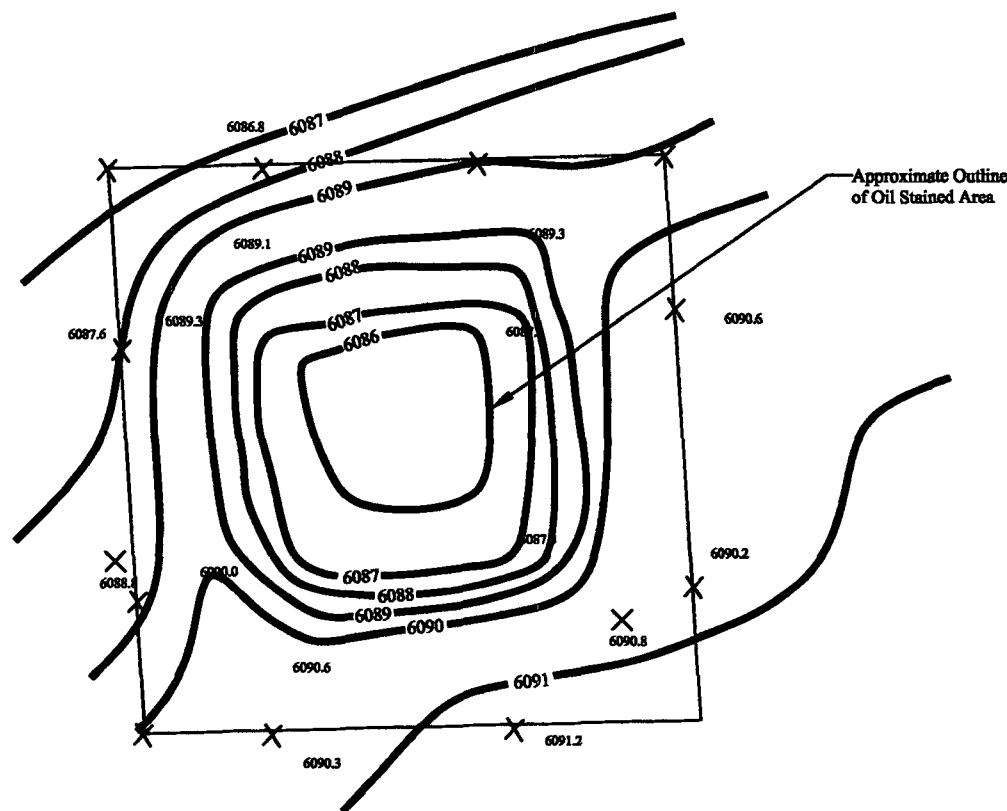
Vicinity Map

Figure 1

Drawn By:  
 Kyle Kerr

Project Manager:  
 C. Jack Collins

1



LEGEND

Surface Contour of Pit  
Prior to Excavation  
Contour Interval = 1 ft.

CHEVRONTEXACO INC  
Gallegos Gallup Sand Unit  
Pit Closure

**ENVIROTECH INC.**

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SITE MAP

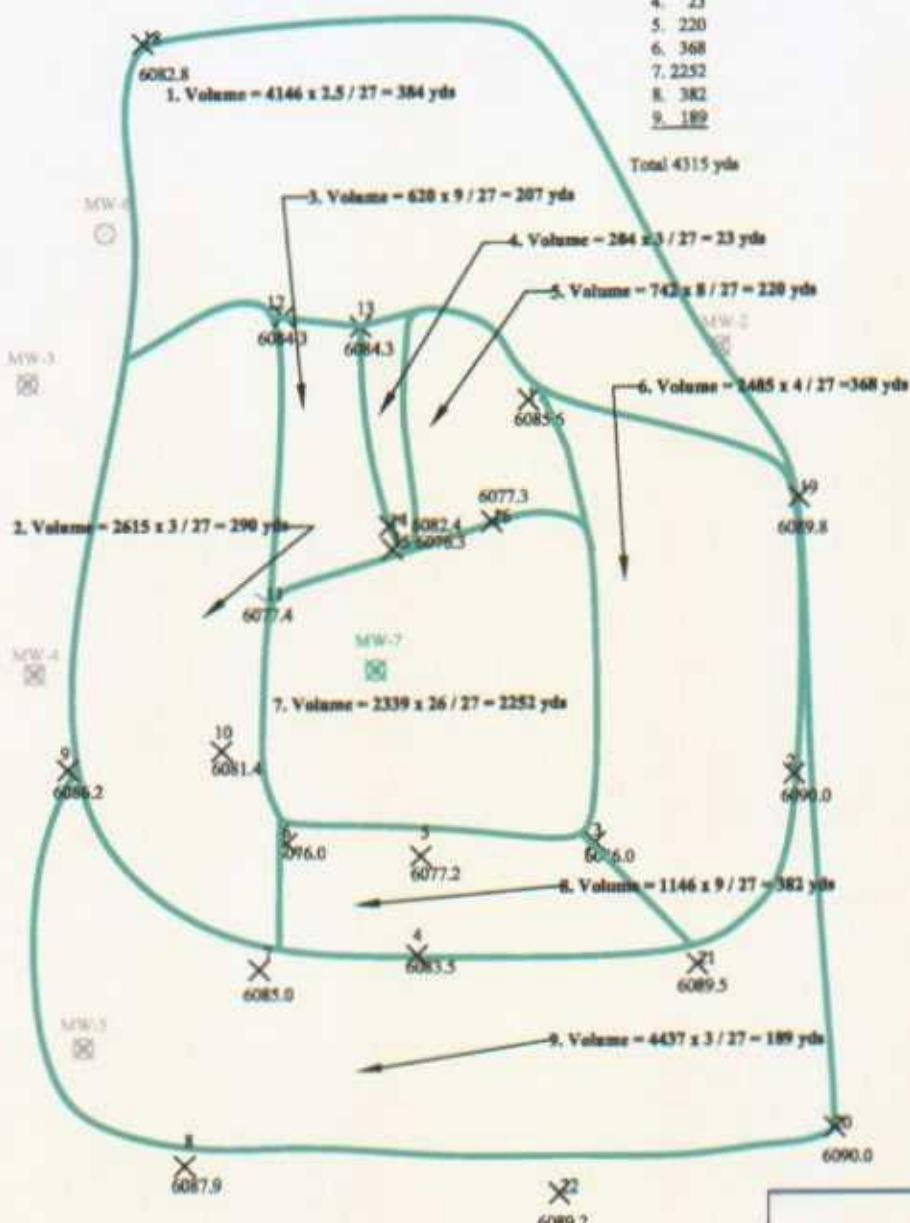
REVISIONS  
BY KPK DATE 12/02/02  
BY CJC DATE 12/03/03

PROJECT #01079-003

DATE 09/20/01 DRAWN CJC  
SCALE 1" = 30' APPROVED CJC FIGURE  
2

Excavation Volumes in yds (in place)

1. 384
2. 290
3. 207
4. 23
5. 220
6. 368
7. 2252
8. 382
9. 189



LEGEND

- Outline of excavation
- MW-? - Monitor Well Location & Number
- 6089.2 - Survey point & elevation

CHEVRONTEXACO INC  
Gallegos Gallup Sand Unit  
Pit Closure

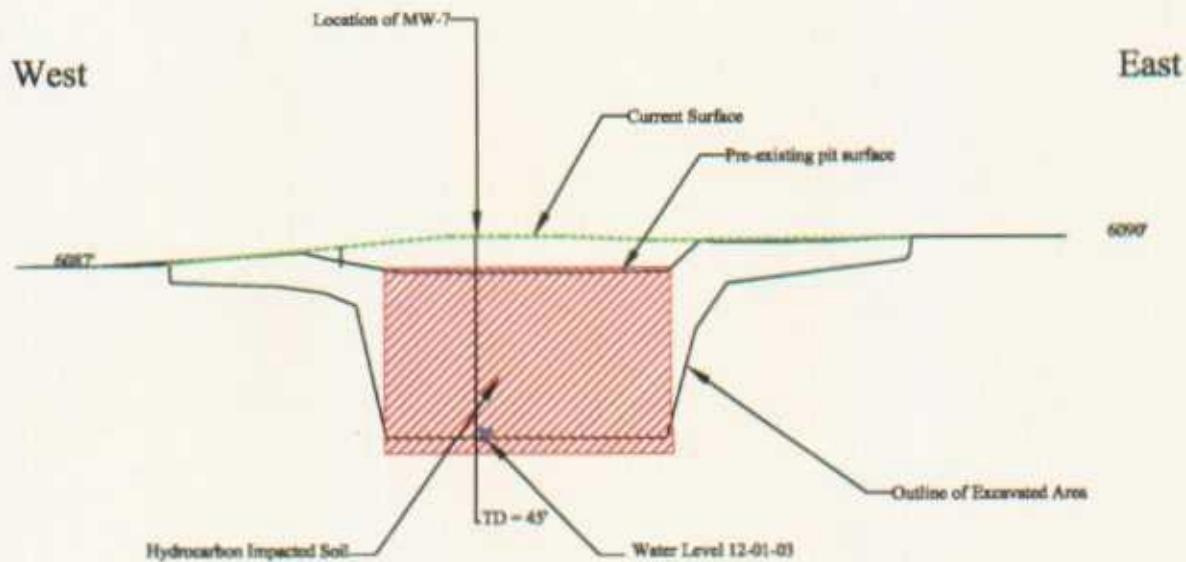
**ENVIROTECH INC.**

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REVISIONS  
BY KPK DATE 12/02/02 PROJECT #01079-003  
BY CJC DATE 12/03/03

Excavation Volume Calculations

DATE	09/20/01	DRAWN	CJC	FIGURE
SCALE	1" = 30'	APPROVED	CJC	3.



#### LEGEND

CHEVRONTEXACO INC  
Gallegos Gallup Sand Unit  
Pit Closure

**ENVIROTECH INC.**

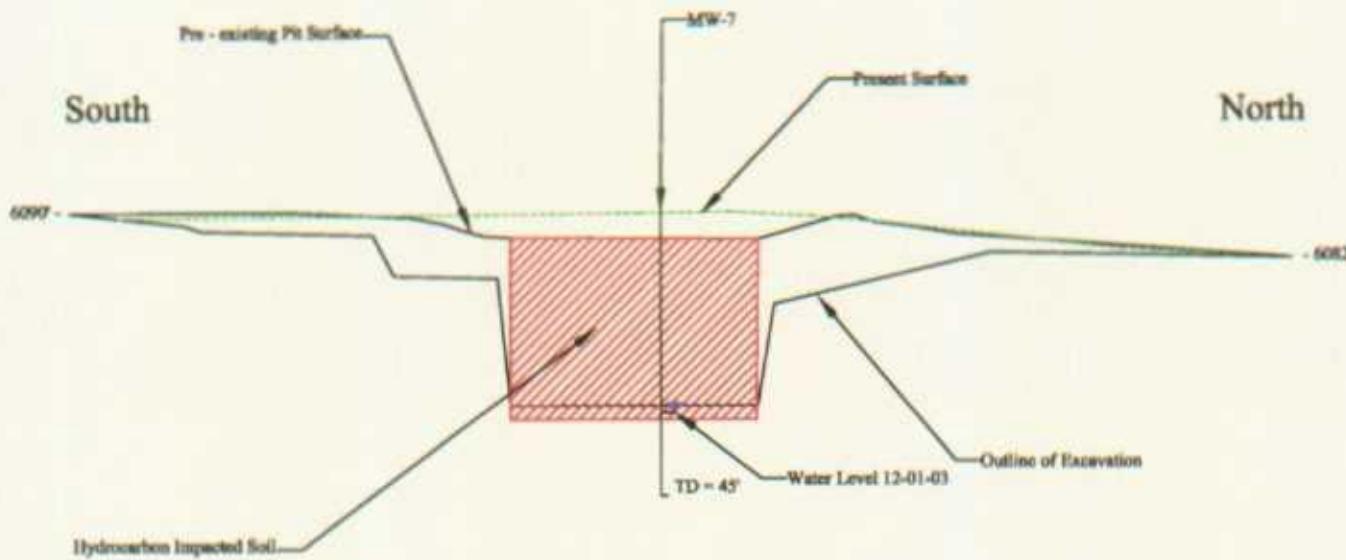
REVISIONS  
BY KPK DATE 12/02/02  
BY CJC DATE 12/03/03

PROJECT #01079-003

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5796 U.S. HIGHWAY 64  
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West - East Cross Section  
Thru Pit

DATE	09/20/01	DRAWN	CJC	FIGURE
SCALE	1" = 30'	APPROVED	CJC	4



#### LEGEND

CHEVRONTEXACO INC  
Gallegos Gallup Sand Unit  
Pit Closure

REVISIONS  
BY KPK DATE 12/02/02  
BY CJC DATE 12/03/03

PROJECT #01079-003

**ENVIROTECH INC.**

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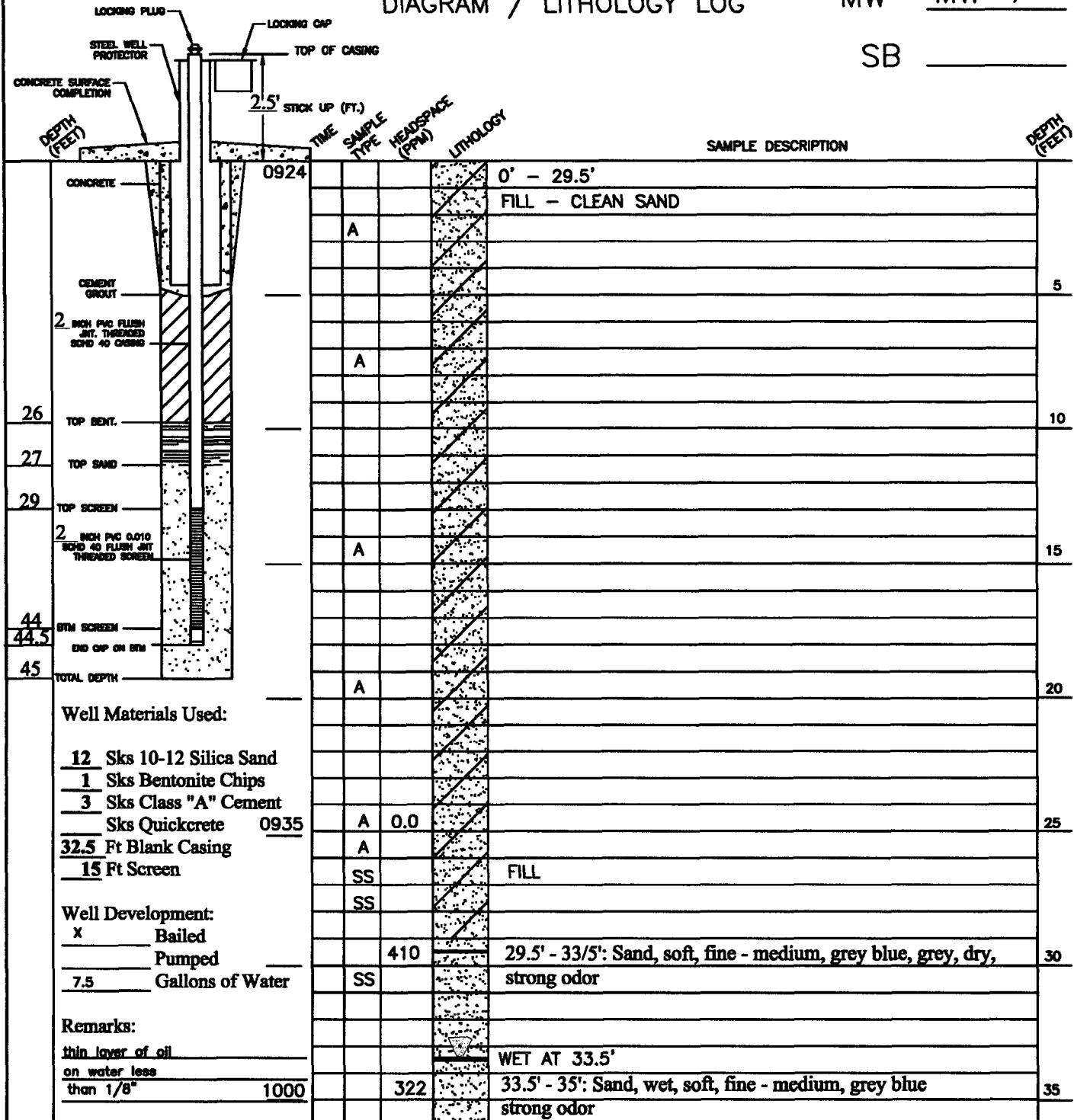
South - North Cross - Section  
Thru MW-7

DATE 09/20/01	DRAWN CJC	FIGURE
SCALE 1" = 30'	APPROVED CJC	5.

ABOVE GRADE WELL COMPLETION  
DIAGRAM / LITHOLOGY LOG

MW MW-7

SB



DRILLER: Kelly Padilla

BIT SIZE: 7 7/8"

LOCATION: Gallegos Gallup Sand Unit

HELPER: Thurman Benally

TOTAL BORING DEPTH: 45'

ELEVATION: 6089.88' MSL GL

DRILLING COMPANY: Envirotech

DATE STARTED: 11 / 26 / 03

DATE COMPLETED 11 / 26 / 03

DRILLING METHOD: HSA

SAMPLER TYPE: 5' Continuous Split Spoon

GEOLOGIST: CJC

ChevronTexaco Gallegos Gallup Sand Unit Pit Closure	
REVISIONS BY _____ BY _____	DATE _____ DATE _____
JOB # 01079-004	

**ENVIROTECH INC.**

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AbvDrilling.dwg

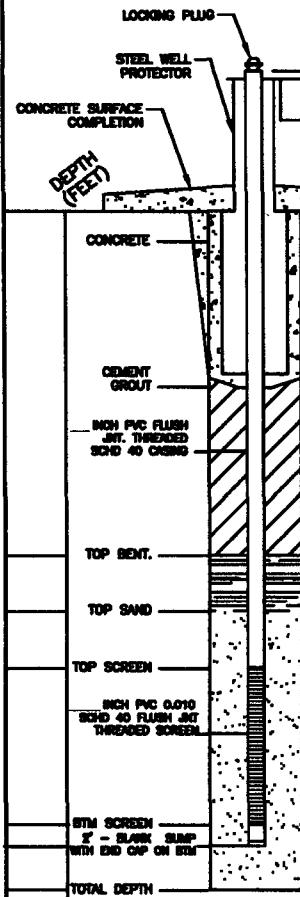
MW-7

DATE 12/1/03	DRAWN _____	TCR _____	PAGE 1
SCALE NTS	APPROVED _____	CJC	OF 2

ABOVE GRADE WELL COMPLETION  
DIAGRAM / LITHOLOGY LOG

MW MW-7

SB



DEPTH (FEET)	STICK UP (FT.)	USCS	SAMPLE TYPE	HEADSPACE (PPM)	LITHOLOGY	SAMPLE DESCRIPTION	DEPTH (FEET) 35
						322	
CONCRETE						SAND, SOFT, WET, FINE-MEDIUM, LIGHT GREY, GREY	
CEMENT GROUT			SS			STRONG ODOR/SOME OIL SATURATED	
INCH PVC FLUSH JKT. THREADED SCHED 40 CASING							40
TOP BENT.		1032				SAND, SOFT, WET, FINE-MEDIUM, LIGHT GREY, ODOR	
TOP SAND						40' - 45'	
TOP SCREEN							
INCH PVC 0.010 SCHED 40 FLUSH JKT THREADED SCREEN						TD = 45'	
STM SCREEN 2' - BLANK JUMP WITH DED CAP ON END							
TOTAL DEPTH							

Well Materials Used:

- Sks 10-12 Silica Sand
- Sks Bentonite Chips
- Sks Class "A" Cement
- Sks Quickcrete
- Ft Blank Casing
- Ft Screen

Well Development:

- Bailed
- Pumped
- Gallons of Water

Remarks:

DRILLER: Kelly Padilla

BIT SIZE: 7 7/8"

LOCATION: Gallegos Gallup Sand Unit

HELPER: Thurman Benally

TOTAL BORING DEPTH: 45'

ELEVATION: 6089.88' MSL GL

DRILLING COMPANY: Envirotech

DATE STARTED: 11 / 26 / 03

DATE COMPLETED: 11 / 26 / 03

DRILLING METHOD: HSA

SAMPLER TYPE: 5' Continuous Split Spoon

GEOLOGIST: CJC

ChevronTexaco  
Gallegos Gallup Sand Unit  
Pit Closure

**ENVIROTECH INC.**

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REVISIONS  
BY DATE  
BY DATE

JOB # 01079-004

MW-7

DATE 12/1/03	DRAWN	TCR	PAGE 2
SCALE NTS	APPROVED	CJC	OF 2

## **TABLES**

**Table 1, Laboratory Results of Soil Sample Analyses**

**Table 2, Laboratory Results of Water Sample Analyses: EPA Method 8021B**

**Table 3, Laboratory Results of Water Sample Analyses: Cation/Anion**

Envirotech Inc.

Company	ChevronTexaco
Location	Gallegos Gallup Sand Unit
Date	12/04/03
Project #	01079-004

**Table 1. Laboratory Results of Soil Sample Analyses: EPA Method 8015**

NNEPA/ EPA Action Levels		10.0	50	1,000	100		
Sample Number	Sample Location	Date	ppm(mg/L)				
			Benzene	BTEX (8021)	TPH (8015)	PID Headspace	
S. Wall @ 25'		11-Nov-03	< 0.002	0.51	< 0.2	186.0	
S. Wall @ 20'		11-Nov-03	< 0.002	0.05	166	89.0	
W. Wall @ 16'		11-Nov-03	< 0.002	1.57	75	1.5	
Btm @ 25'		12-Nov-03	< 0.002	2.67	2,720	368.0	
N. Wall @ 25'		12-Nov-03	< 0.002	2.98	4,800	968.0	
E. Wall @ 25'		12-Nov-03	< 0.002	0.52	167	165.0	
NWC @ 25'		12-Nov-03	< 0.002	3.29	1,890	285.0	
MW-7 @ 30'		26-Nov-03	< 0.002	1.94	2,770	410.0	
MW-7 @ 33.5'		26-Nov-03	< 0.002	2.63	4,260	322.0	
MW-7 @ 45'		26-Nov-03	< 0.002	0.73	1,420	188.0	

**Table 2. Laboratory Results of Water Sample Analyses: EPA Method 8021B**

NNEPA/ EPA Action Levels		5.0	2000	680	440	na	
Sample Number	Sample Location	Date	ppb (ug/L)				
			Benzene	Toluene	Ethylbenzene	Total Xylenes	Total BTEX
MW-7		1-Dec-03	14.9	36.1	21.2	80.1	152.0

Note: ND Not Detected

NA Not Available NS-Not Sampled

ppm parts per million

<b>Site</b>	ChevronTexaco Inc.
<b>Location</b>	Gallegos Gallup Sand Unit Pit
<b>Date</b>	December 1, 2003
<b>Project</b>	# 01079-004

**Laboratory Results of Water Sample Analyses: Cation/Anion**  
**Table 3**

**APPENDIX A**  
**Laboratory Analysis**

# ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021  
AROMATIC VOLATILE ORGANICS

Client:	ChevronTexaco	Project #:	01079-004
Sample ID:	MW-7	Date Reported:	12-02-03
Chain of Custody:	11603	Date Sampled:	12-01-03
Laboratory Number:	27306	Date Received:	12-01-03
Sample Matrix:	Water	Date Analyzed:	12-02-03
Preservative:	Cool	Analysis Requested:	BTEX
Condition:	Cool & Intact		

Parameter	Concentration (ug/L)	Dilution Factor	Det. Limit (ug/L)
-----------	-------------------------	-----------------	----------------------

Benzene	14.9	1	0.2
Toluene	36.1	1	0.2
Ethylbenzene	21.2	1	0.2
p,m-Xylene	56.8	1	0.2
o-Xylene	23.3	1	0.1

**Total BTEX** 152

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	fluorobenzene	96 %
	1,4-difluorobenzene	96 %
	4-bromochlorobenzene	96 %

References: Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Method 8021B, Aromatic and Halogenated Volatiles by Gas Chromatography Using Photoionization and/or Electrolytic Conductivity Detectors, SW-846, USEPA December 1996.

Comments: Gallegos Gallup Sand Unit.

Deon E. Aguirre  
Analyst

Christine M. Walters  
Review

# ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021  
AROMATIC VOLATILE ORGANICS  
QUALITY ASSURANCE REPORT

Client:	N/A	Project #:	N/A
Sample ID:	12-02-BTEX QA/QC	Date Reported:	12-02-03
Laboratory Number:	27305	Date Sampled:	N/A
Sample Matrix:	Water	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	12-02-03
Condition:	N/A	Analysis:	BTEX

Calibration and Detection Limits (ug/L)	I-Cal RF	C-Cal RF	%Diff	Blank Conc.	Detect. Limit
Benzene	4.2776E-002	4.2862E-002	0.20%	ND	0.2
Toluene	4.8966E-002	4.8975E-002	0.02%	ND	0.2
Ethylbenzene	7.4036E-002	7.4185E-002	0.20%	ND	0.2
p,m-Xylene	6.8275E-002	6.8288E-002	0.02%	ND	0.2
o-Xylene	5.5866E-002	5.6034E-002	0.30%	ND	0.1

Duplicate Conc. (ug/L)	Sample	Duplicate	%Diff	Accept Limit
Benzene	99.1	98.1	1.0%	0 - 30%
Toluene	20.2	20.2	0.0%	0 - 30%
Ethylbenzene	7.3	7.1	2.7%	0 - 30%
p,m-Xylene	32.3	31.8	1.5%	0 - 30%
o-Xylene	10.3	10.0	2.9%	0 - 30%

Spike Conc. (ug/L)	Sample	Amount Spiked	Spiked Sample	% Recovery	Accept Limits
Benzene	99.1	50.0	148	99.4%	39 - 150
Toluene	20.2	50.0	70.1	99.9%	46 - 148
Ethylbenzene	7.3	50.0	57.2	99.8%	32 - 160
p,m-Xylene	32.3	100	131	98.8%	46 - 148
o-Xylene	10.3	50.0	60.2	99.8%	46 - 148

ND - Parameter not detected at the stated detection limit.

References: Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.  
Method 8021B, Aromatic and Halogenated Volatiles by Gas Chromatography Using Photoionization and/or Electrolytic Conductivity Detectors, SW-846, USEPA December 1996.

Comments: QA/QC for samples 27305 - 27306.

Analyst

Review

# ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

## CATION / ANION ANALYSIS

Client:	ChevronTexaco	Project #:	01079-004
Sample ID:	MW-7	Date Reported:	12-02-03
Laboratory Number:	27306	Date Sampled:	12-01-03
Chain of Custody:	11603	Date Received:	12-01-03
Sample Matrix:	Water	Date Extracted:	N/A
Preservative:	Cool	Date Analyzed:	12-01-03
Condition:	Cool & Intact		

Parameter	Analytical Result	Units	Units	
pH	7.24	s.u.		
Conductivity @ 25° C	1,750	umhos/cm		
Total Dissolved Solids @ 180C	938	mg/L		
Total Dissolved Solids (Calc)	914	mg/L		
SAR	2.9	ratio		
Total Alkalinity as CaCO <sub>3</sub>	225	mg/L		
Total Hardness as CaCO <sub>3</sub>	428	mg/L		
Bicarbonate as HCO <sub>3</sub>	225	mg/L	3.69	meq/L
Carbonate as CO <sub>3</sub>	<0.1	mg/L	0.00	meq/L
Hydroxide as OH	<0.1	mg/L	0.00	meq/L
Nitrate Nitrogen	17.0	mg/L	0.27	meq/L
Nitrite Nitrogen	3.02	mg/L	0.07	meq/L
Chloride	168	mg/L	4.74	meq/L
Fluoride	0.66	mg/L	0.03	meq/L
Phosphate	0.7	mg/L	0.02	meq/L
Sulfate	280	mg/L	5.83	meq/L
Iron	0.016	mg/L	0.00	meq/L
Calcium	161	mg/L	8.03	meq/L
Magnesium	6.45	mg/L	0.53	meq/L
Potassium	1.40	mg/L	0.04	meq/L
Sodium	139	mg/L	6.05	meq/L
Cations			14.65	meq/L
Anions			14.65	meq/L
Cation/Anion Difference			0.04%	

Reference: U.S.E.P.A., 600/4-79-020, "Methods for Chemical Analysis of Water and Wastes", 1983.  
Water And Waste Water", 18th ed., 1992.

Comments: Gallegos Gallup Sand Unit.

Christine M. Lubetka  
Analyst

Dee E. O'Ferrell  
Review

# CHAIN OF CUSTODY RECORD

1605

# ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified  
Nonhalogenated Volatile Organics  
Total Petroleum Hydrocarbons

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Client:	ChevronTexaco GGSU	Project #:	01079-004
Sample ID:	MW-7 @ 30'	Date Reported:	12-01-03
Laboratory Number:	27302	Date Sampled:	11-26-03
Chain of Custody No:	11601	Date Received:	11-26-03
Sample Matrix:	Soil	Date Extracted:	12-01-03
Preservative:	Cool	Date Analyzed:	12-01-03
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

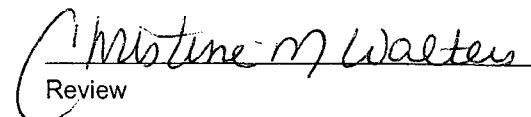
Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	1,190	0.2
Diesel Range (C10 - C28)	1,580	0.1
Total Petroleum Hydrocarbons	2,770	0.2

ND - Parameter not detected at the stated detection limit.

References: Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: Gallegos Gallup Sand Unit.

  
Dennis P. Apel  
Analyst

  
Christine M. Walters  
Review

# ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified  
Nonhalogenated Volatile Organics  
Total Petroleum Hydrocarbons

Client:	ChevronTexaco GGSU	Project #:	01079-004
Sample ID:	MW-7 @ 33.5'	Date Reported:	12-01-03
Laboratory Number:	27303	Date Sampled:	11-26-03
Chain of Custody No:	11601	Date Received:	11-26-03
Sample Matrix:	Soil	Date Extracted:	12-01-03
Preservative:	Cool	Date Analyzed:	12-01-03
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	1,680	0.2
Diesel Range (C10 - C28)	2,580	0.1
Total Petroleum Hydrocarbons	4,260	0.2

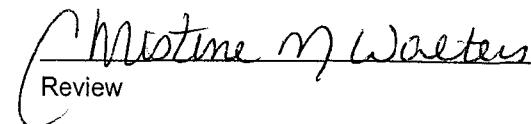
ND - Parameter not detected at the stated detection limit.

References: Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: Gallegos Gallup Sand Unit.

  
Sean E. Apel

Analyst

  
Christine M. Walters  
Review

# ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified  
Nonhalogenated Volatile Organics  
Total Petroleum Hydrocarbons

Client:	ChevronTexaco GGSU	Project #:	01079-004
Sample ID:	MW-7 @ 45'	Date Reported:	12-01-03
Laboratory Number:	27304	Date Sampled:	11-26-03
Chain of Custody No:	11601	Date Received:	11-26-03
Sample Matrix:	Soil	Date Extracted:	12-01-03
Preservative:	Cool	Date Analyzed:	12-01-03
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

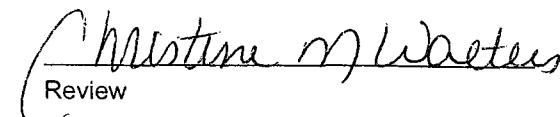
Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	488	0.2
Diesel Range (C10 - C28)	934	0.1
Total Petroleum Hydrocarbons	1,420	0.2

ND - Parameter not detected at the stated detection limit.

References: Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: Gallegos Gallup Sand Unit.

  
Alan C. Appling  
Analyst

  
Christine M. Waeters  
Review

# ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA Method 8015 Modified  
Nonhalogenated Volatile Organics  
Total Petroleum Hydrocarbons

## Quality Assurance Report

Client:	QA/QC	Project #:	N/A
Sample ID:	12-01-TPH QA/QC	Date Reported:	12-01-03
Laboratory Number:	27302	Date Sampled:	N/A
Sample Matrix:	Methylene Chloride	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	12-01-03
Condition:	N/A	Analysis Requested:	TPH

	I-Cal Date	I-Cal RF	C-Cal RF	% Difference	Accept. Range
Gasoline Range C5 - C10	04-29-03	1.8591E-002	1.8572E-002	0.10%	0 - 15%
Diesel Range C10 - C28	04-29-03	1.5507E-002	1.5492E-002	0.10%	0 - 15%

Blank Conc. (mg/L - mg/Kg)	Concentration	Detection Limit
Gasoline Range C5 - C10	ND	0.2
Diesel Range C10 - C28	ND	0.1
Total Petroleum Hydrocarbons	ND	0.2

Duplicate Conc. (mg/Kg)	Sample	Duplicate	% Difference	Accept. Range
Gasoline Range C5 - C10	1,190	1,180	0.8%	0 - 30%
Diesel Range C10 - C28	1,580	1,570	0.6%	0 - 30%

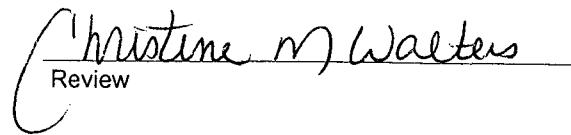
Spike Conc. (mg/Kg)	Sample	Spike Added	Spike Result	% Recovery	Accept. Range
Gasoline Range C5 - C10	1,190	250	1,430	99.3%	75 - 125%
Diesel Range C10 - C28	1,580	250	1,820	99.5%	75 - 125%

ND - Parameter not detected at the stated detection limit.

References: Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: QA/QC for samples 27302 - 27304.

  
Analyst

  
Review

# ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021  
AROMATIC VOLATILE ORGANICS

Client:	ChevronTexaco GGSU	Project #:	01079-004
Sample ID:	MW-7 @ 30'	Date Reported:	12-01-03
Laboratory Number:	27302	Date Sampled:	11-26-03
Chain of Custody:	11601	Date Received:	11-26-03
Sample Matrix:	Soil	Date Analyzed:	12-01-03
Preservative:	Cool	Date Extracted:	12-01-03
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	ND	1.8
Toluene	99.2	1.7
Ethylbenzene	295	1.5
p,m-Xylene	1,030	2.2
o-Xylene	512	1.0
Total BTEX	1,940	

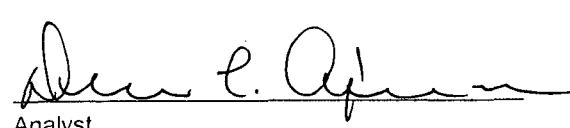
ND - Parameter not detected at the stated detection limit.

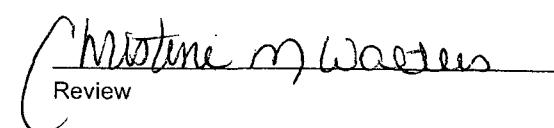
Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	99 %
	1,4-difluorobenzene	99 %
	Bromochlorobenzene	99 %

References: Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Method 8021B, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: Gallegos Gallup Sand Unit.

  
Analyst

  
Review

# ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021  
AROMATIC VOLATILE ORGANICS

Client:	ChevronTexaco GGSU	Project #:	01079-004
Sample ID:	MW-7 @ 33.5'	Date Reported:	12-01-03
Laboratory Number:	27303	Date Sampled:	11-26-03
Chain of Custody:	11601	Date Received:	11-26-03
Sample Matrix:	Soil	Date Analyzed:	12-01-03
Preservative:	Cool	Date Extracted:	12-01-03
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	ND	1.8
Toluene	168	1.7
Ethylbenzene	529	1.5
p,m-Xylene	1,250	2.2
o-Xylene	681	1.0
Total BTEX	2,630	

ND - Parameter not detected at the stated detection limit.

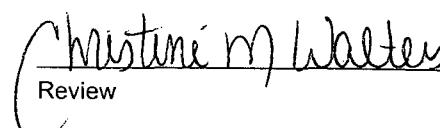
Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	99 %
	1,4-difluorobenzene	99 %
	Bromochlorobenzene	99 %

References: Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Method 8021B, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: Gallegos Gallup Sand Unit.

  
Analyst

  
Review

# ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021  
AROMATIC VOLATILE ORGANICS

Client:	ChevronTexaco GGSU	Project #:	01079-004
Sample ID:	MW-7 @ 45'	Date Reported:	12-01-03
Laboratory Number:	27304	Date Sampled:	11-26-03
Chain of Custody:	11601	Date Received:	11-26-03
Sample Matrix:	Soil	Date Analyzed:	12-01-03
Preservative:	Cool	Date Extracted:	12-01-03
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	ND	1.8
Toluene	19.1	1.7
Ethylbenzene	100	1.5
p,m-Xylene	405	2.2
o-Xylene	206	1.0
Total BTEX	730	

ND - Parameter not detected at the stated detection limit.

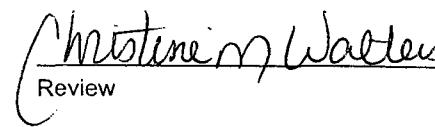
Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	99 %
	1,4-difluorobenzene	99 %
	Bromochlorobenzene	99 %

References: Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Method 8021B, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: Gallegos Gallup Sand Unit.

  
Dennis C. Apel  
Analyst

  
Christine M. Walters  
Review

# ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021  
AROMATIC VOLATILE ORGANICS

Client:	N/A	Project #:	N/A
Sample ID:	12-01-BTEX QA/QC	Date Reported:	12-01-03
Laboratory Number:	27302	Date Sampled:	N/A
Sample Matrix:	Soil	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	12-01-03
Condition:	N/A	Analysis:	BTEX

Calibration and Detection Limits (ug/L)	I-Cal RF	C-Cal RF	%Diff Accept Range 0 - 15%	Blank Conc.	Detect Limit
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Benzene	4.2776E-002	4.2905E-002	0.3%	ND	0.2
Toluene	4.8966E-002	4.9064E-002	0.2%	ND	0.2
Ethylbenzene	7.4036E-002	7.4259E-002	0.3%	ND	0.2
p,m-Xylene	6.8275E-002	6.8480E-002	0.3%	ND	0.2
o-Xylene	5.5866E-002	5.5978E-002	0.2%	ND	0.1

Duplicate Conc. (ug/Kg)	Sample	Duplicate	%Diff	Accept Range	Detect Limit
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Benzene	ND	ND	0.0%	0 - 30%	1.8
Toluene	99.2	97.3	1.9%	0 - 30%	1.7
Ethylbenzene	295	289	2.0%	0 - 30%	1.5
p,m-Xylene	1,030	1,060	2.9%	0 - 30%	2.2
o-Xylene	512	527	2.9%	0 - 30%	1.0

Spike Conc. (ug/Kg)	Sample	Amount Spiked	Spiked Sample	% Recovery	Accept Range
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Benzene	ND	50.0	49.9	99.8%	39 - 150
Toluene	99.2	50.0	149	99.8%	46 - 148
Ethylbenzene	295	50.0	344	99.8%	32 - 160
p,m-Xylene	1,030	100	1,120	99.1%	46 - 148
o-Xylene	512	50.0	561	99.8%	46 - 148

ND - Parameter not detected at the stated detection limit.

References:  
Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.  
Method 8021B, Aromatic and Halogenated Volatiles by Gas Chromatography Using Photoionization and/or Electrolytic Conductivity Detectors, SW-846, USEPA December 1996.

Comments: QA/QC for samples 27302 - 27304.

Analyst

*Alexander C. Alfonso*

*Christine M. Webters*  
Review

## CHAIN OF CUSTODY RECORD

11601

# ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified  
Nonhalogenated Volatile Organics  
Total Petroleum Hydrocarbons

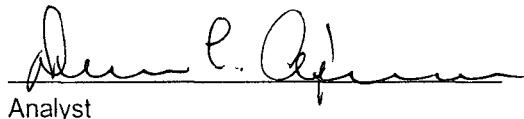
Client:	ChevronTexaco	Project #:	01079-003
Sample ID:	S. Wall @ 20'	Date Reported:	11-13-03
Laboratory Number:	27166	Date Sampled:	11-11-03
Chain of Custody No:	11559-A	Date Received:	11-11-03
Sample Matrix:	Soil	Date Extracted:	11-13-03
Preservative:	Cool	Date Analyzed:	11-13-03
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	70.2	0.2
Diesel Range (C10 - C28)	95.3	0.1
Total Petroleum Hydrocarbons	166	0.2

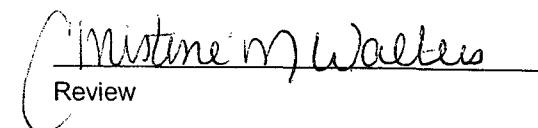
ND - Parameter not detected at the stated detection limit.

References: Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: Gallegos Gallup Sand Unit.

  
Alan E. Apel

Analyst

  
Christine M. Walters

Review

# ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA Method 8015 Modified  
Nonhalogenated Volatile Organics  
Total Petroleum Hydrocarbons

Quality Assurance Report

Client:	QA/QC	Project #:	N/A
Sample ID:	11-13-TPH QA/QC	Date Reported:	11-13-03
Laboratory Number:	27166	Date Sampled:	N/A
Sample Matrix:	Methylene Chloride	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	11-13-03
Condition:	N/A	Analysis Requested:	TPH

	I-Cal Date	I-Cal RF	C-Cal RF	% Difference	Acceptable Range
Gasoline Range C5 - C10	04-29-03	1.8591E-002	1.8572E-002	0.10%	0 - 15%
Diesel Range C10 - C28	04-29-03	1.5507E-002	1.5492E-002	0.10%	0 - 15%

Blank Conc. (mg/l - mg/Kg)	Concentration	Detection Limit
Gasoline Range C5 - C10	ND	0.2
Diesel Range C10 - C28	ND	0.1
Total Petroleum Hydrocarbons	ND	0.2

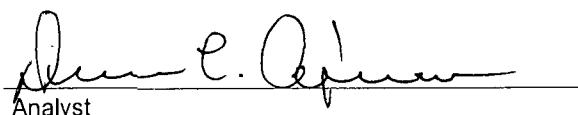
Duplicate Conc. (mg/Kg)	Sample	Duplicate	% Difference	Acceptable Range
Gasoline Range C5 - C10	70.2	70.0	0.3%	0 - 30%
Diesel Range C10 - C28	95.3	95.0	0.3%	0 - 30%

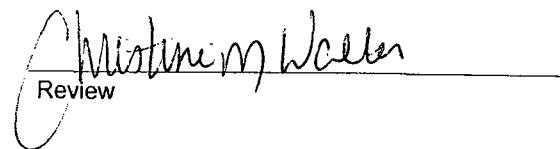
Spike Conc. (mg/Kg)	Sample	Spike Added	Spike Result	% Recovery	Acceptable Range
Gasoline Range C5 - C10	70.2	250	320	99.8%	75 - 125%
Diesel Range C10 - C28	95.3	250	345	99.8%	75 - 125%

ND - Parameter not detected at the stated detection limit.

References: Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: QA/QC for samples 27166, 27268 - 27172.

  
Analyst

  
Review

# ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021  
AROMATIC VOLATILE ORGANICS

Client:	ChevronTexaco	Project #:	01079-003
Sample ID:	S. Wall @ 20'	Date Reported:	11-13-03
Laboratory Number:	27166	Date Sampled:	11-11-03
Chain of Custody:	11559-A	Date Received:	11-11-03
Sample Matrix:	Soil	Date Analyzed:	11-13-03
Preservative:	Cool	Date Extracted:	11-13-03
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	ND	1.8
Toluene	32.5	1.7
Ethylbenzene	6.5	1.5
p,m-Xylene	6.9	2.2
o-Xylene	7.5	1.0
Total BTEX	53.4	

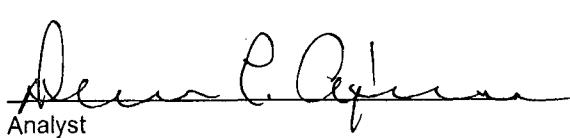
ND - Parameter not detected at the stated detection limit.

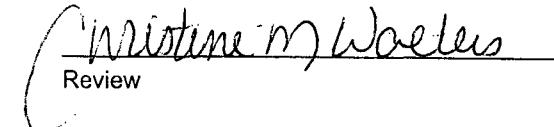
Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	98 %
	1,4-difluorobenzene	98 %
	Bromochlorobenzene	98 %

References: Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Method 8021B, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: Gallegos Gallup Sand Unit.

  
Analyst

  
Review

# ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021  
AROMATIC VOLATILE ORGANICS

Client:	N/A	Project #:	N/A
Sample ID:	11-13-BTEX QA/QC	Date Reported:	11-13-03
Laboratory Number:	27166	Date Sampled:	N/A
Sample Matrix:	Soil	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	11-13-03
Condition:	N/A	Analysis:	BTEX

Calibration and Detection Limits (ug/L)	I-Cal RF	C-Cal RF	%Diff.	Blank Conc	Detect Limit
Benzene	4.2776E-002	4.2905E-002	0.3%	ND	0.2
Toluene	4.8966E-002	4.9064E-002	0.2%	ND	0.2
Ethylbenzene	7.4036E-002	7.4259E-002	0.3%	ND	0.2
p,m-Xylene	6.8275E-002	6.8480E-002	0.3%	ND	0.2
o-Xylene	5.5866E-002	5.5978E-002	0.2%	ND	0.1

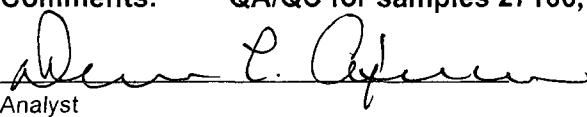
Duplicate Conc. (ug/Kg)	Sample	Duplicate	%Diff.	Accept Range	Detect Limit
Benzene	ND	ND	0.0%	0 - 30%	1.8
Toluene	32.5	31.9	1.8%	0 - 30%	1.7
Ethylbenzene	6.5	6.4	1.5%	0 - 30%	1.5
p,m-Xylene	6.9	7.0	1.4%	0 - 30%	2.2
o-Xylene	7.5	7.7	2.7%	0 - 30%	1.0

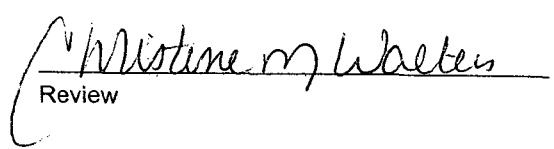
Spike Conc. (ug/Kg)	Sample	Amount Spiked	Spiked Sample	% Recovery	Accept Range
Benzene	ND	50.0	49.9	99.8%	39 - 150
Toluene	32.5	50.0	82.3	99.8%	46 - 148
Ethylbenzene	6.5	50.0	56.4	99.8%	32 - 160
p,m-Xylene	6.9	100	106	99.1%	46 - 148
o-Xylene	7.5	50.0	57.4	99.8%	46 - 148

ND - Parameter not detected at the stated detection limit.

References: Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.  
Method 8021B, Aromatic and Halogenated Volatiles by Gas Chromatography Using Photoionization and/or Electrolytic Conductivity Detectors, SW-846, USEPA December 1996.

Comments: QA/QC for samples 27166, 27169 - 27172.

  
Analyst

  
Review

**CHAIN OF CUSTODY RECORD**

# ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified  
Nonhalogenated Volatile Organics  
Total Petroleum Hydrocarbons

Client: ChevronTexaco  
Sample ID: Btm @ 25'  
Laboratory Number: 27169  
Chain of Custody No: 11564  
Sample Matrix: Soil  
Preservative: Cool  
Condition: Cool and Intact

Project #: 01079-003  
Date Reported: 11-13-03  
Date Sampled: 11-12-03  
Date Received: 11-12-03  
Date Extracted: 11-13-03  
Date Analyzed: 11-13-03  
Analysis Requested: 8015 TPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	1,100	0.2
Diesel Range (C10 - C28)	1,620	0.1
Total Petroleum Hydrocarbons	2,720	0.2

ND - Parameter not detected at the stated detection limit.

References: Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: Gallegos Gallup Sand Unit.

*Dawn C. Ayers*  
Analyst

*Christine M. Wheeler*  
Review

# ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified  
Nonhalogenated Volatile Organics  
Total Petroleum Hydrocarbons

Client: ChevronTexaco  
Sample ID: North Wall @ 25'  
Laboratory Number: 27170  
Chain of Custody No: 11564  
Sample Matrix: Soil  
Preservative: Cool  
Condition: Cool and Intact

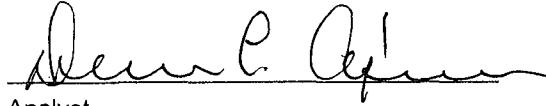
Project #: 01079-003  
Date Reported: 11-13-03  
Date Sampled: 11-12-03  
Date Received: 11-12-03  
Date Extracted: 11-13-03  
Date Analyzed: 11-13-03  
Analysis Requested: 8015 TPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	1,710	0.2
Diesel Range (C10 - C28)	3,090	0.1
Total Petroleum Hydrocarbons	4,800	0.2

ND - Parameter not detected at the stated detection limit.

References: Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: Gallegos Gallup Sand Unit.

  
Analyst

  
Review

# ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified  
Nonhalogenated Volatile Organics  
Total Petroleum Hydrocarbons

Client: ChevronTexaco  
Sample ID: E. Wall @ 25'  
Laboratory Number: 27171  
Chain of Custody No: 11564  
Sample Matrix: Soil  
Preservative: Cool  
Condition: Cool and Intact

Project #: 01079-003  
Date Reported: 11-13-03  
Date Sampled: 11-12-03  
Date Received: 11-12-03  
Date Extracted: 11-13-03  
Date Analyzed: 11-13-03  
Analysis Requested: 8015 TPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	38.4	0.2
Diesel Range (C10 - C28)	128	0.1
Total Petroleum Hydrocarbons	166	0.2

ND - Parameter not detected at the stated detection limit.

References: Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: Gallegos Gallup Sand Unit.

Don C. Peiffer  
Analyst

Christine M. Wheeler  
Review

# ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified  
Nonhalogenated Volatile Organics  
Total Petroleum Hydrocarbons

Client:	ChevronTexaco	Project #:	01079-003
Sample ID:	N. West Corn. Pit @ 25'	Date Reported:	11-13-03
Laboratory Number:	27172	Date Sampled:	11-12-03
Chain of Custody No:	11564	Date Received:	11-12-03
Sample Matrix:	Soil	Date Extracted:	11-13-03
Preservative:	Cool	Date Analyzed:	11-13-03
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

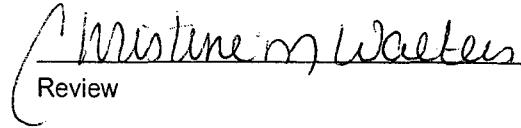
Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	761	0.2
Diesel Range (C10 - C28)	1,130	0.1
Total Petroleum Hydrocarbons	1,890	0.2

ND - Parameter not detected at the stated detection limit.

References: Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: Gallegos Gallup Sand Unit.

  
Analyst

  
Review

# ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA Method 8015 Modified  
Nonhalogenated Volatile Organics  
Total Petroleum Hydrocarbons

## Quality Assurance Report

Client:	QA/QC	Project #:	N/A
Sample ID:	11-13-TPH QA/QC	Date Reported:	11-13-03
Laboratory Number:	27166	Date Sampled:	N/A
Sample Matrix:	Methylene Chloride	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	11-13-03
Condition:	N/A	Analysis Requested:	TPH

	I-Cal Date	I-Cal RI	C-Cal RI	% Difference	Acceptable Range
Gasoline Range C5 - C10	04-29-03	1.8591E-002	1.8572E-002	0.10%	0 - 15%
Diesel Range C10 - C28	04-29-03	1.5507E-002	1.5492E-002	0.10%	0 - 15%

Blank Conc. (mg/L - mg/Kg)	Concentration	Detection Limit
Gasoline Range C5 - C10	ND	0.2
Diesel Range C10 - C28	ND	0.1
Total Petroleum Hydrocarbons	ND	0.2

Duplicate Conc. (mg/Kg)	Sample	Duplicate	% Difference	Acceptable Range
Gasoline Range C5 - C10	70.2	70.0	0.3%	0 - 30%
Diesel Range C10 - C28	95.3	95.0	0.3%	0 - 30%

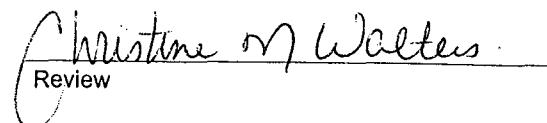
Spike Conc. (mg/Kg)	Sample	Spike Added	Spike Result	% Recovery	Acceptable Range
Gasoline Range C5 - C10	70.2	250	320	99.8%	75 - 125%
Diesel Range C10 - C28	95.3	250	345	99.8%	75 - 125%

ND - Parameter not detected at the stated detection limit.

References: Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: QA/QC for samples 27166, 27268 - 27172.

  
Analyst

  
Review

# ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021  
AROMATIC VOLATILE ORGANICS

Client:	ChevronTexaco	Project #:	01079-003
Sample ID:	Btm @ 25'	Date Reported:	11-13-03
Laboratory Number:	27169	Date Sampled:	11-12-03
Chain of Custody:	11564	Date Received:	11-12-03
Sample Matrix:	Soil	Date Analyzed:	11-13-03
Preservative:	Cool	Date Extracted:	11-13-03
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	42.8	1.8
Toluene	335	1.7
Ethylbenzene	475	1.5
p,m-Xylene	1,270	2.2
o-Xylene	543	1.0
Total BTEX	2,670	

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	98 %
	1,4-difluorobenzene	98 %
	Bromochlorobenzene	98 %

References: Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Method 8021B, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: Gallegos Gallup Sand Unit.

Analyst

Dawn L. Alfaro

Review

Christine M. Walters

# ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021  
AROMATIC VOLATILE ORGANICS

Client:	ChevronTexaco	Project #:	01079-003
Sample ID:	North Wall @ 25'	Date Reported:	11-13-03
Laboratory Number:	27170	Date Sampled:	11-12-03
Chain of Custody:	11564	Date Received:	11-12-03
Sample Matrix:	Soil	Date Analyzed:	11-13-03
Preservative:	Cool	Date Extracted:	11-13-03
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	37.9	1.8
Toluene	335	1.7
Ethylbenzene	546	1.5
p,m-Xylene	1,420	2.2
o-Xylene	646	1.0
Total BTEX	2,980	

ND - Parameter not detected at the stated detection limit.

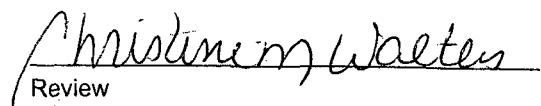
Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	98 %
	1,4-difluorobenzene	98 %
	Bromochlorobenzene	98 %

References: Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Method 8021B, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: Gallegos Gallup Sand Unit.

  
Dennis C. Alman  
Analyst

  
Christine M. Waeters  
Review

# ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021  
AROMATIC VOLATILE ORGANICS

Client:	ChevronTexaco	Project #:	01079-003
Sample ID:	E. Wall @ 25'	Date Reported:	11-13-03
Laboratory Number:	27171	Date Sampled:	11-12-03
Chain of Custody:	11564	Date Received:	11-12-03
Sample Matrix:	Soil	Date Analyzed:	11-13-03
Preservative:	Cool	Date Extracted:	11-13-03
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	ND	1.8
Toluene	14.4	1.7
Ethylbenzene	75.7	1.5
p,m-Xylene	260	2.2
o-Xylene	166	1.0
<b>Total BTEX</b>	<b>516</b>	

ND - Parameter not detected at the stated detection limit.

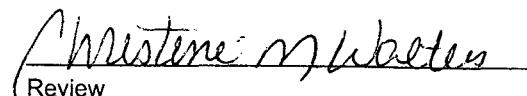
Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	98 %
	1,4-difluorobenzene	98 %
	Bromochlorobenzene	98 %

References: Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Method 8021B, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: Gallegos Gallup Sand Unit.

  
Dennis C. O'Brien  
Analyst

  
Christine M. Whetstone  
Review

# ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021  
AROMATIC VOLATILE ORGANICS

Client:	ChevronTexaco	Project #:	01079-003
Sample ID:	N. West Corn. Pit @ 25'	Date Reported:	11-13-03
Laboratory Number:	27172	Date Sampled:	11-12-03
Chain of Custody:	11564	Date Received:	11-12-03
Sample Matrix:	Soil	Date Analyzed:	11-13-03
Preservative:	Cool	Date Extracted:	11-13-03
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	8.8	1.8
Toluene	454	1.7
Ethylbenzene	624	1.5
p,m-Xylene	1,500	2.2
o-Xylene	701	1.0
<b>Total BTEX</b>	<b>3,290</b>	

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	98 %
	1,4-difluorobenzene	98 %
	Bromochlorobenzene	98 %

References: Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Method 8021B, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: Gallegos Gallup Sand Unit.

  
Analyst

  
Review

# ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021  
AROMATIC VOLATILE ORGANICS

Client:	N/A	Project #:	N/A
Sample ID:	11-13-BTEX QA/QC	Date Reported:	11-13-03
Laboratory Number:	27166	Date Sampled:	N/A
Sample Matrix:	Soil	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	11-13-03
Condition:	N/A	Analysis:	BTEX

Calibration and Detection Limits (ug/L)	I-Cal RF:	C-Cal RF:	%Diff.	Blank Conc	Detect Limit
		Accept Range 0 - 15%			
Benzene	4.2776E-002	4.2905E-002	0.3%	ND	0.2
Toluene	4.8966E-002	4.9064E-002	0.2%	ND	0.2
Ethylbenzene	7.4036E-002	7.4259E-002	0.3%	ND	0.2
p,m-Xylene	6.8275E-002	6.8480E-002	0.3%	ND	0.2
o-Xylene	5.5866E-002	5.5978E-002	0.2%	ND	0.1

Duplicate Conc. (ug/Kg)	Sample	Duplicate	%Diff.	Accept Range	Detect Limit
Benzene	ND	ND	0.0%	0 - 30%	1.8
Toluene	32.5	31.9	1.8%	0 - 30%	1.7
Ethylbenzene	6.5	6.4	1.5%	0 - 30%	1.5
p,m-Xylene	6.9	7.0	1.4%	0 - 30%	2.2
o-Xylene	7.5	7.7	2.7%	0 - 30%	1.0

Spike Conc. (ug/Kg)	Sample	Amount Spiked	Spiked Sample	% Recovery	Accept Range
Benzene	ND	50.0	49.9	99.8%	39 - 150
Toluene	32.5	50.0	82.3	99.8%	46 - 148
Ethylbenzene	6.5	50.0	56.4	99.8%	32 - 160
p,m-Xylene	6.9	100	106	99.1%	46 - 148
o-Xylene	7.5	50.0	57.4	99.8%	46 - 148

ND - Parameter not detected at the stated detection limit.

References: Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.  
Method 8021B, Aromatic and Halogenated Volatiles by Gas Chromatography Using Photoionization and/or Electrolytic Conductivity Detectors, SW-846, USEPA December 1996.

Comments: QA/QC for samples 27166, 27169 - 27172.

Analyst

Review

## **CHAIN OF CUSTODY RECORD**

1564

# ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified  
Nonhalogenated Volatile Organics  
Total Petroleum Hydrocarbons

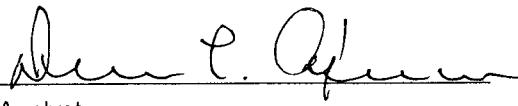
Client:	ChevronTexaco	Project #:	01079-003
Sample ID:	S. Wall @ 25'	Date Reported:	11-12-03
Laboratory Number:	27139	Date Sampled:	11-11-03
Chain of Custody No:	11558	Date Received:	11-11-03
Sample Matrix:	Soil	Date Extracted:	11-11-03
Preservative:	Cool	Date Analyzed:	11-11-03
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

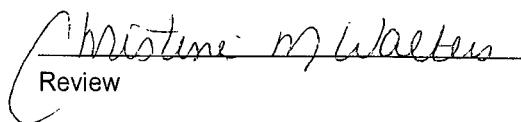
Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	ND	0.2
Diesel Range (C10 - C28)	ND	0.1
Total Petroleum Hydrocarbons	ND	0.2

ND - Parameter not detected at the stated detection limit.

References: Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: Gallegos Gallup Sand Unit.

  
Alan C. Afune  
Analyst

  
Christine M. Whetstone  
Review

# ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified  
Nonhalogenated Volatile Organics  
Total Petroleum Hydrocarbons

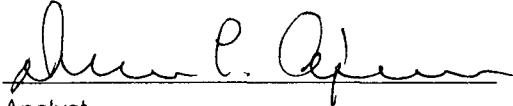
Client:	ChevronTexaco	Project #:	01079-003
Sample ID:	W. Wall @ 16'	Date Reported:	11-12-03
Laboratory Number:	27140	Date Sampled:	11-11-03
Chain of Custody No:	11558	Date Received:	11-11-03
Sample Matrix:	Soil	Date Extracted:	11-11-03
Preservative:	Cool	Date Analyzed:	11-11-03
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

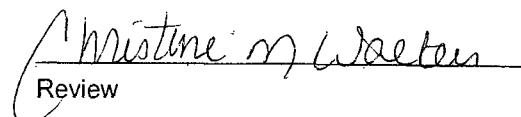
Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	36.7	0.2
Diesel Range (C10 - C28)	38.5	0.1
Total Petroleum Hydrocarbons	75.2	0.2

ND - Parameter not detected at the stated detection limit.

References: Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: Gallegos Gallup Sand Unit.

  
Analyst

  
Review

# ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA Method 8015 Modified  
Nonhalogenated Volatile Organics  
Total Petroleum Hydrocarbons

Quality Assurance Report

Client:	QA/QC	Project #:	N/A
Sample ID:	11-11-TPH QA/QC	Date Reported:	11-12-03
Laboratory Number:	27130	Date Sampled:	N/A
Sample Matrix:	Methylene Chloride	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	11-11-03
Condition:	N/A	Analysis Requested:	TPH

	-Cal Date	-Cal RF	C-Cal RF	% Difference	Accept. Range
Gasoline Range C5 - C10	04-29-03	1.8591E-002	1.8572E-002	0.10%	0 - 15%
Diesel Range C10 - C28	04-29-03	1.5507E-002	1.5492E-002	0.10%	0 - 15%

Blank Conc. (mg/L - mg/Kg)	Concentration	Detection Limit
Gasoline Range C5 - C10	ND	0.2
Diesel Range C10 - C28	ND	0.1
Total Petroleum Hydrocarbons	ND	0.2

Duplicate Conc. (mg/Kg)	Sample	Duplicate	% Difference	Accept. Range
Gasoline Range C5 - C10	ND	ND	0.0%	0 - 30%
Diesel Range C10 - C28	ND	ND	0.0%	0 - 30%

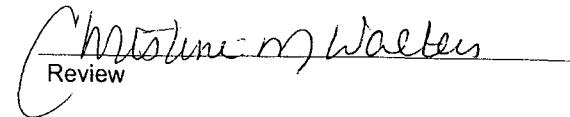
Spike Conc. (mg/Kg)	Sample	Spike Added	Spike Result	% Recovery	Accept. Range
Gasoline Range C5 - C10	ND	250	250	100.0%	75 - 125%
Diesel Range C10 - C28	ND	250	250	100.0%	75 - 125%

ND - Parameter not detected at the stated detection limit.

References: Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: QA/QC for samples 27130 - 27136, 27139 - 27140.

  
Dennis P. O'Brien  
Analyst

  
Christine M. Walters  
Review

# ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021  
AROMATIC VOLATILE ORGANICS

Client:	ChevronTexaco	Project #:	01079-003
Sample ID:	S. Wall @ 25'	Date Reported:	11-12-03
Laboratory Number:	27139	Date Sampled:	11-11-03
Chain of Custody:	11558	Date Received:	11-11-03
Sample Matrix:	Soil	Date Analyzed:	11-11-03
Preservative:	Cool	Date Extracted:	11-11-03
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	ND	1.8
Toluene	35.7	1.7
Ethylbenzene	ND	1.5
p,m-Xylene	15.0	2.2
o-Xylene	ND	1.0
Total BTEX	50.7	

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	96 %
	1,4-difluorobenzene	96 %
	Bromochlorobenzene	96 %

References: Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Method 8021B, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: Gallegos Gallup Sand Unit.

Dawn E. Ayres  
Analyst

Christine M. Wheeler  
Review

# ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021  
AROMATIC VOLATILE ORGANICS

Client:	ChevronTexaco	Project #:	01079-003
Sample ID:	W. Wall @ 16'	Date Reported:	11-12-03
Laboratory Number:	27140	Date Sampled:	11-11-03
Chain of Custody:	11558	Date Received:	11-11-03
Sample Matrix:	Soil	Date Analyzed:	11-11-03
Preservative:	Cool	Date Extracted:	11-11-03
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	ND	1.8
Toluene	148	1.7
Ethylbenzene	258	1.5
p,m-Xylene	772	2.2
o-Xylene	387	1.0
Total BTEX	1,570	

ND - Parameter not detected at the stated detection limit.

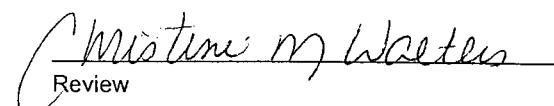
Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	96 %
	1,4-difluorobenzene	96 %
	Bromochlorobenzene	96 %

References: Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Method 8021B, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: Gallegos Gallup Sand Unit.

  
Sean L. O'Brien  
Analyst

  
Christine M. Waeters  
Review

# ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021  
AROMATIC VOLATILE ORGANICS

Client:	N/A	Project #:	N/A
Sample ID:	11-11-BTEX QA/QC	Date Reported:	11-12-03
Laboratory Number:	27134	Date Sampled:	N/A
Sample Matrix:	Soil	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	11-11-03
Condition:	N/A	Analysis:	BTEX

Calibration and Detection Limits (ug/L)	I-Cal RF	C-Cal RF	%Diff.	Blank Conc.	Detect. Limit
			Accept Range 0 - 15%		
Benzene	4.2776E-002	4.2905E-002	0.3%	ND	0.2
Toluene	4.8966E-002	4.9064E-002	0.2%	ND	0.2
Ethylbenzene	7.4036E-002	7.4259E-002	0.3%	ND	0.2
p,m-Xylene	6.8275E-002	6.8480E-002	0.3%	ND	0.2
o-Xylene	5.5866E-002	5.5978E-002	0.2%	ND	0.1

Duplicate Conc. (ug/Kg)	Sample	Duplicate	%Diff.	Accept Range	Detect. Limit
Benzene	ND	ND	0.0%	0 - 30%	1.8
Toluene	ND	ND	0.0%	0 - 30%	1.7
Ethylbenzene	ND	ND	0.0%	0 - 30%	1.5
p,m-Xylene	ND	ND	0.0%	0 - 30%	2.2
o-Xylene	ND	ND	0.0%	0 - 30%	1.0

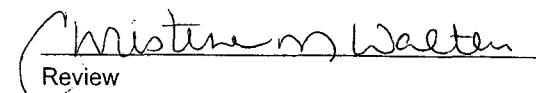
Spike Conc. (ug/Kg)	Sample	Amount Spiked	Spiked Sample	% Recovery	Accept Range
Benzene	ND	50.0	49.9	99.8%	39 - 150
Toluene	ND	50.0	49.9	99.8%	46 - 148
Ethylbenzene	ND	50.0	49.9	99.8%	32 - 160
p,m-Xylene	ND	100	99.9	99.9%	46 - 148
o-Xylene	ND	50.0	49.9	99.8%	46 - 148

ND - Parameter not detected at the stated detection limit.

References: Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.  
Method 8021B, Aromatic and Halogenated Volatiles by Gas Chromatography Using Photoionization and/or Electrolytic Conductivity Detectors, SW-846, USEPA December 1996.

Comments: QA/QC for samples 27134 - 27136, 27139 - 27140.

  
Analyst

  
Review

## **CHAIN OF CUSTODY RECORD**

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**APPENDIX B**

**Bills of Ladings**



## Bill of Lading

PHONE: (505) 632-0615 • 5796 U.S. HIGHWAY 64 • FARMINGTON, NEW MEXICO 87401

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MANIFEST #

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DATE 1-11-03 JOB #

**COMPLETE DESCRIPTION OF SHIPMENT**

"I certify the material hauled from the above location has not been added to or mixed with, and is the same material received from the above mentioned Generator, and that no additional materials have been added."

NAME \_\_\_\_\_

SIGNATURE

To Reorder Call 326-PRNT (776-7868) or Fax 325-9744 BARE FORMS, INC., 1000 BROADWAY, NEW YORK, NY 10036

# Bill of Lading

20955

PHONE: (505) 632-0615 • 5796 U.S. HIGHWAY 64 • FARMINGTON, NEW MEXICO 87401

MANIFEST #

DATE 11/11/03 JOB # 010955

## LOAD COMPLETE DESCRIPTION OF SHIPMENT

NO.	TRANSPORTING COMPANY					
	POINT OF ORIGIN	DESTINATION	MATERIAL	GRID	YDS	BBLS
1	Envirotech Chaco Plant ND	Envirotech Land Farm 44	Cont Dirt	Q-20	20	Envirotech 545
2				Q-22		
3				Q-24		
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# Bill of Lading

20956

MANIFEST #

PHONE: (505) 632-0615 • 5796 U.S. HIGHWAY 64 • FARMINGTON, NEW MEXICO 87401

DATE 11/11/03 JOB # 030911

## COMPLETE DESCRIPTION OF SHIPMENT

LOAD	TRANSPORTING COMPANY					
NO.	POINT OF ORIGIN	DESTINATION	MATERIAL	GRID	YDS	BBLS
1	EnviroTech Inc.	Highway 64 Farmington	Field Dirt	20	549	549
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# Bill of Lading

MANIFEST #

20040

PHONE: (505) 632-0615 • 5796 U.S. HIGHWAY 64 • FARMINGTON, NEW MEXICO 87401

DATE 11-01-03 JOB # 41074-003

## COMPLETE DESCRIPTION OF SHIPMENT

LOAD NO.	DESCRIPTION OF SHIPMENT						TRANSPORTING COMPANY			
	POINT OF ORIGIN	DESTINATION	MATERIAL	GRID	YDS	BBLS	COMPANY	TRK#	TIME	DRIVER SIGNATURE
1	CHEVRO	BACKFILL		20			ENVIROTECH	518	7:00 AM	<i>John B.</i>
2				20						<i>John B.</i>
3				20						<i>John B.</i>
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## **Bill of Lading**

MANIFEST # 30914

PHONE: (505) 632-0615 • 5796 U.S. HIGHWAY 64 • FARMINGTON, NEW MEXICO 87401

JOB # 010005  
DATE 11/12/02

**COMPLETE DESCRIPTION OF SHIPMENT**

TRANSPORTING COMPANY

"I certify the material hauled from the above location has not been added to or mixed with, and is the same material received from the above mentioned Generator, and that no additional materials have been added."

NAME John Doe COMPANY Smith & Sons SIGNATURE

To Re-order Call 326-PRNT (7768) or fax 325-9769 RARE FORM printing # Granbir: FORM # 81



# Bill of Lading

MANIFEST #

20039

PHONE: (505) 632-0615 • 5796 U.S. HIGHWAY 64 • FARMINGTON, NEW MEXICO 87401

DATE 11-10-03 JOB # 20039

## LOAD

## COMPLETE DESCRIPTION OF SHIPMENT

NO.	POINT OF ORIGIN	DESTINATION	MATERIAL	GRID	YDS	BBLS	COMPANY	TRK#	TIME	DRIVER SIGNATURE
1	<u>EnviroTech</u>	<u>LF #2</u>	<u>Coal Dust</u>	<u>Q-20</u>	<u>20</u>		<u>EnviroTech</u>	<u>555</u>		
2				<u>Q-20</u>	<u>20</u>			<u>518</u>		
3				<u>Q-20</u>	<u>20</u>					
4				<u>Q-21</u>	<u>20</u>					
5				<u>Q-21</u>	<u>20</u>					
6				<u>Q-22</u>	<u>20</u>					
7				<u>Q-23</u>	<u>20</u>					
8				<u>Q-23</u>	<u>20</u>					
9				<u>Q-24</u>	<u>20</u>					
10	<u>EnviroTech</u>	<u>LF #2</u>		<u>Q-24</u>	<u>20</u>			<u>555</u>		
11								<u>518</u>		
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## **Bill of Lading**

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MANIFEST #

PHONE: (505) 632-0615 • 5796 U.S. HIGHWAY 64 • FARMINGTON, NEW MEXICO 87401

**COMPLETE DESCRIPTION OF SHIPMENT**

TRANSPORTING COMPANY

LOAD	COMPLETE DESCRIPTION OF SHIPMENT						TRANSPORTING COMPANY			
	POINT OF ORIGIN	DESTINATION	MATERIAL	GRID	YDS	BBLS	COMPANY	TRK#	TIME	DRIVER SIGNATURE
1	W	E	Coastal	20	20	55	Englewood			
2	W	E	Coastal	21						
3	W	E	Coastal	22						
4	W	E	Coastal	23						
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192	W	E	Coastal	22						
193	W	E	Coastal	2						

"I certify the material hauled from the above location has not been added to or mixed with, and is the same material received from the above mentioned Generator, and that no additional materials have been added."

NAME \_\_\_\_\_ COMPANY \_\_\_\_\_ SIGNATURE \_\_\_\_\_

To Re-order Call 326-PRNT (7768) or Fox 325-9764 RARE FORM PRINTING & GRAPHICS FORM #9



## **Bill of Lading**

卷之三

MANIFEST #

PHONE: (505) 632-0615 • 5796 U.S. HIGHWAY 64 • FARMINGTON, NEW MEXICO 87401

**COMPLETE DESCRIPTION OF SHIPMENT**

TRANSPORTING COMPANY

"I certify the material hauled from the above location has not been added to or mixed with, and is the same material received from the above mentioned Generator, and that no additional materials have been added"

NAME

"I certify the material hauled from the above location  
and that no additional materials have been added"

Re-order Call 326-PBNT (7768) or Fax 325-9744 BARE FORM Barefoot & Garber FORM # 01



# Bill of Lading

MANIFEST #

PHONE: (505) 632-0615 • 5796 U.S. HIGHWAY 64 • FARMINGTON, NEW MEXICO 87401

DATE 11/12/03 JOB # 111111

## LOAD COMPLETE DESCRIPTION OF SHIPMENT

NO.	POINT OF ORIGIN	DESTINATION	MATERIAL	GRID	YDS	BBLS	COMPANY	TRK#	TIME	DRIVER SIGNATURE
1	ENVIROTECH LANDFILL SITE	ENVIROTECH LANDFILL SITE	soil dirt	Q-22	20		ENVIROTECH	545		
2				Q-21	20					
3				Q-23	20					
4				Q-20	20					
5				Q-22	20					
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# **Bill of Lading**

MANIFEST #

PHONE: (505) 632-0615 • 5796 U.S. HIGHWAY 64 • FARMINGTON, NEW MEXICO 87401

DATE 12-12-73 JOB # 1207

**COMPLETE DESCRIPTION OF SHIPMENT**

## TRANSPORTING COMPANY

I certify the material hauled from the above location has not been added to or mixed with, and is the same material received from the above mentioned Generator, and that no additional materials have been added."

NAME \_\_\_\_\_ COMPANY \_\_\_\_\_

SIGNATURE



# Bill of Lading

MANIFEST #

PHONE: (505) 632-0615 • 5796 U.S. HIGHWAY 64 • FARMINGTON, NEW MEXICO 87401

DATE / / JOB #

## LOAD COMPLETE DESCRIPTION OF SHIPMENT

LOAD NO.	POINT OF ORIGIN	DESTINATION	MATERIAL	GRID	YDS	BBLS	COMPANY	TRK#	TIME	DRIVER SIGNATURE
1	LTP #2	cont. dirt	Q22	20			EnviroTech	551		
2			Q20							
3			Q23							
4			Q22							
5			1222							
6			1223							
7			1224							
8			1222							
9			1224							
10			1223							
11		cont. dirt	1223	20			EnviroTech			
12	LTP #2	cont. dirt	1223	20			EnviroTech	551		

"I certify the material hauled from the above location has not been added to or mixed with, and is the same material received from the above mentioned Generator, and that no additional materials have been added."

NAME

COMPANY

SIGNATURE



## **Bill of Lading**

MANIFEST #

卷之三

PHONE: (505) 6332-0615 • 5796 U.S. HIGHWAY 64 • FARMINGTON, NEW MEXICO 87401

**COMPI ETE DESCRIPTION OF SHIPMENT**

TRANSPORTING COMPANY

"I certify the material hauled from the above location has not been added to or mixed with, and is the same material received from the above mentioned Generator, and that no additional materials have been added."

NAME MICHAEL HENRY T.

COMPANY EMPLOYEE

SIGNATURE



## **Bill of Lading**

MANIFEST #

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PHONE: (505) 632-0615 • 5796 U.S. HIGHWAY 64 • FARMINGTON, NEW MEXICO 87401

**COMPLETE DESCRIPTION OF SHIPMENT**

"I certify the material hauled from the above location has not been added to or mixed with, and is the same material received from the above mentioned Generator, and that no additional materials have been added."

NAME

NAME \_\_\_\_\_

COMPANY Enviro Tech

SIGNATURE

To Re-order Call 326-PRINT (7768) or Fax 325-9764 RARE FORM Printing & Graphics FORM # 01



## **Bill of Lading**

**MANIFEST #**

PHONE: (505) 632-0615 • 5796 U.S. HIGHWAY 64 • FARMINGTON, NEW MEXICO 87401

**COMPLETE DESCRIPTION OF SHIPMENT**

## TRANSPORTING COMPANY

"I certify the material hauled from the above location has not been added to or mixed with, and is the same material received from the above mentioned Generator, and that no additional materials have been added."

NAME \_\_\_\_\_

COMPANY

**SIGNATURE**

To Re-order Call 326-PRINT (7768) or Fax 325-9764 RARE FORM PRINTING & Graphics FORM #01



# Bill of Lading

MANIFEST #

20958

PHONE: (505) 632-0615 • 5796 U.S. HIGHWAY 64 • FARMINGTON, NEW MEXICO 87401

DATE 11/12/03 JOB # 20958

## LOAD COMPLETE DESCRIPTION OF SHIPMENT

NO.	POINT OF ORIGIN	DESTINATION	MATERIAL	GRID	YDS	BBLS	COMPANY	TRK#	TIME	DRIVER SIGNATURE
1	EnviroTech Inc. 1200 N. Hwy 64 Farmington, NM 87401	EnviroTech Inc. 1200 N. Hwy 64 Farmington, NM 87401	Fine Dirt	20	20	5	EnviroTech Inc.	Sig		
2					20					
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# Bill of Lading

MANIFEST # 20962

PHONE: (505) 632-0615 • 5796 U.S. HIGHWAY 64 • FARMINGTON, NEW MEXICO 87401

DATE 11-12-03 JOB # 111670

LOAD COMPLETE DESCRIPTION OF SHIPMENT

NO.	POINT OF ORIGIN	DESTINATION	MATERIAL	GRID	YDS	BBLS	COMPANY	TRK#	TIME	DRIVER SIGNATURE
1	F # 2	Exco	Backfill	11	20		Envirotech	555 518	7:14	<i>Richie</i>
2	F # 2	11		11	20			555		<i>Richie</i>
3	F # 2	11		11	20			555		<i>Richie</i>
4	F # 2	11		11	20			555		<i>Richie</i>
5	F # 2	11		11	20			555		<i>Richie</i>
6	F # 2	11		11	20			555		<i>Richie</i>
7	F # 2	11		11	20			555		<i>Richie</i>
8	F # 2	11		11	20			555		<i>Richie</i>
9	F # 2	11		11	20			555		<i>Richie</i>
10	F # 2	11		11	20			555		<i>Richie</i>
11	F # 2	11		11	20			555		<i>Richie</i>
12	F # 2	11		11	20			555		<i>Richie</i>
13	F # 2	11		11	20			555		<i>Richie</i>
14	F # 2	11		11	20			555		<i>Richie</i>
15	F # 2	11		11	20			555		<i>Richie</i>
16	F # 2	11		11	20			555		<i>Richie</i>
17	F # 2	11		11	20			555		<i>Richie</i>
18	F # 2	11		11	20			555		<i>Richie</i>
19	F # 2	11		11	20			555		<i>Richie</i>
20	F # 2	11		11	20			555		<i>Richie</i>
21	F # 2	11		11	20			555		<i>Richie</i>
22	F # 2	11		11	20			555		<i>Richie</i>
23	F # 2	11		11	20			555		<i>Richie</i>
24	F # 2	11		11	20			555		<i>Richie</i>
25	F # 2	11		11	20			555		<i>Richie</i>
26	F # 2	11		11	20			555		<i>Richie</i>
27	F # 2	11		11	20			555		<i>Richie</i>
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29	F # 2	11		11	20			555		<i>Richie</i>
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31	F # 2	11		11	20			555		<i>Richie</i>
32	F # 2	11		11	20			555		<i>Richie</i>
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35	F # 2	11		11	20			555		<i>Richie</i>
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37	F # 2	11		11	20			555		<i>Richie</i>
38	F # 2	11		11	20			555		<i>Richie</i>
39	F # 2	11		11	20			555		<i>Richie</i>
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41	F # 2	11		11	20			555		<i>Richie</i>
42	F # 2	11		11	20			555		<i>Richie</i>
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44	F # 2	11		11	20			555		<i>Richie</i>
45	F # 2	11		11	20			555		<i>Richie</i>
46	F # 2	11		11	20			555		<i>Richie</i>
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140	F # 2	11		11	20			555		<i>Richie</i>
141	F # 2	11		11	20			555		<i>Richie</i>
142	F # 2	11								



## **Bill of Lading**

MANIFEST #

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PHONE: (505) 632-0615 • 5796 U.S. HIGHWAY 64 • FARMINGTON, NEW MEXICO 87401

DATE 11-13-03 JOB # 61094

**LOAD**      **COMPLETE DESCRIPTION OF SHIPMENT**

TRANSPORTING COMPANY

"I certify the material hauled from the above location has not been added to or mixed with, and is the same material received from the above mentioned Generator, and that no additional materials have been added"

NAME \_\_\_\_\_

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Re-order Call 326-PPBN (7768) or Fax 325-8764 BABE FORM Division for Customer Service





## **Bill of Lading**

MANIFEST #

PHONE: (505) 632-0615 • 5796 U.S. HIGHWAY 64 • FARMINGTON, NEW MEXICO 87401

JOB # 0000  
DATE 1/1/00

**LOAD** | **COMPLETE DESCRIPTION OF SHIPMENT**

## TRANSPORTING COMPANY

"I certify the material hauled from the above location has not been added to or mixed with, and is the same material received from the above mentioned Generator, and that no additional materials have been added."

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**COMPANY** First National Bank of Toledo **SIGNATURE**

Yan-Hui Chen et al. / Journal of Macroeconomics 33 (2011) 225–234



# Bill of Lading

MANIFEST #

PHONE: (505) 632-0615 • 5796 U.S. HIGHWAY 64 • FARMINGTON, NEW MEXICO 87401

DATE 11-13-03 JOB # 231574-203

LOAD NO.	COMPLETE DESCRIPTION OF SHIPMENT					TRANSPORTING COMPANY				
	POINT OF ORIGIN	DESTINATION	MATERIAL	GRID	YDS	BBLS	COMPANY	TRK#	TIME	DRIVER SIGNATURE
1	EF #2	Texaco	Backfill		20		EnviroTech	3357A		
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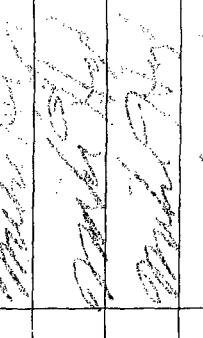
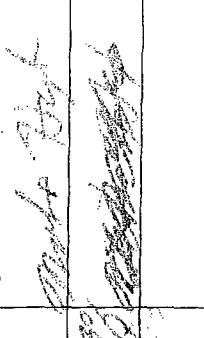
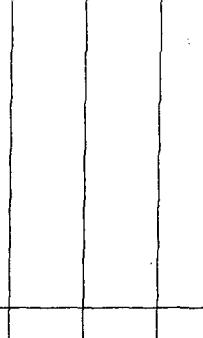
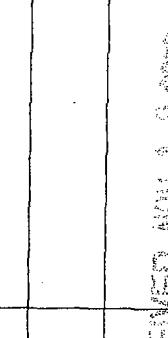
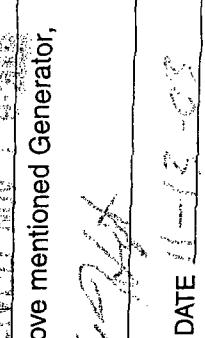


## **Bill of Lading**

MANIFEST #

PHONE: (505) 632-0615 • 5796 U.S. HIGHWAY 64 • FARMINGTON, NEW MEXICO 87401

DATE 11-13-03 JOB # 3007

LOAD	COMPLETE DESCRIPTION OF SHIPMENT						TRANSPORTING COMPANY				
	NO.	POINT OF ORIGIN	DESTINATION	MATERIAL	GRID	YDS	BBLS	COMPANY	TRK#	TIME	DRIVER SIGNATURE
1	15	TEXACO Maintenance	15 #2	Scotcoast	R-22	20			555	7:00	
2	15	#2	Card Dent		R-23	20			512		
3	15				R-24	20					
4	15				R-24	20					
5	15				R-24	20					
6	15				R-23	20					
7	15				R-24	20					
8	15										
9	15										
10	15										
11	15										
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"I certify the material hauled from the above location has not been added to or mixed with, and is the same material received from the above mentioned Generator, and that no additional materials have been added."

NAME \_\_\_\_\_

COMPANY ENVIRONMENT

COMPANY

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## **Bill of Lading**

PHONE: (505) 632-0615 • 5796 U.S. HIGHWAY 64 • FARMINGTON, NEW MEXICO 87401

MANIFEST # 00952

DATE 11-23-05 JOB # 2005

**COMPLETE DESCRIPTION OF SHIPMENT**

## TRANSPORTING COMPANY

"I certify the material hauled from the above location has not been added to or mixed with, and is the same material received from the above mentioned Generator, and that no additional materials have been added."

NAME \_\_\_\_\_

Re-order Call 326-PRNT (7768) or Fax 325-9764 RARE FORM PRINTING & GRAPHIC FORM #0

DATE 12-20-07



## **Bill of Lading**

MANIFEST #

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PHONE: (505) 632-0615 • 5796 U.S. HIGHWAY 64 • FARMINGTON, NEW MEXICO 87401

**COMPLETE DESCRIPTION OF SHIPMENT  
LOAD**

## TRANSPORTING COMPANY

"I certify the material hauled from the above location has not been added to or mixed with, and is the same material received from the above mentioned Generator, and that no additional materials have been added."

NAME Bala and Patel COMPANY EDU. PROJECT SIGNATURE

To Re-order Call 326-PRNT (7768) or Fax 325-9764 RARE FORM PRINTING & GRAPHICS FORM # 01



## **Bill of Lading**

MANIFEST #

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PHONE: (505) 632-0615 • 5796 U.S. HIGHWAY 64 • FARMINGTON, NEW MEXICO 87401

**LOAD** | **COMPLETE DESCRIPTION OF SHIPMENT**

TRANSPORTING COMPANY

DATE 1-13-03 JOB # 00000000000000000000000000000000

1

**COMPLETE DESCRIPTION OF SHIPMENT**

"I certify the material hauled from the above location has not been added to or mixed with, and is the same material received from the above mentioned Generator, and that no additional materials have been added"

NAME \_\_\_\_\_

SIGNATURE

To Re-order Call 326-PRNT (7768) or Fax 325-9764 RARE FORM Printing & Graphics FORM #01

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# Bill of Lading

PHONE: (505) 632-0615 • 5796 U.S. HIGHWAY 64 • FARMINGTON, NEW MEXICO 87401

DATE 11/24/07 JOB# 01059 - 003

MANIFEST # 21021

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**COMBINED DESCRIPTION OF SHIPMENT LOAD**

TRANSBORNING COMPANY

"I certify the material hauled from the above location and that no additional materials have been added."

NAME \_\_\_\_\_ COMPANY \_\_\_\_\_ SIGNATURE \_\_\_\_\_

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## **Bill of Lading**

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MANIFEST #

PHONE: (505) 632-0615 • 57796 U.S. HIGHWAY 64 • FARMINGTON, NEW MEXICO 87401

## COMPLETE DESCRIPTION OF SHIPMENT

DATE JOB #

"I certify the material hauled from the above location has not been added to or mixed with, and is the same material received from the above mentioned Generator, and that no additional materials have been added."

NAME

SIGNATURE  
COMPANY



# **Bill of Lading**

四百九十二

MANIFEST # -

PHONE: (505) 632-0615 • 5796 U.S. HIGHWAY 64 • FARMINGTON, NEW MEXICO 87401

**LOAD** - **COMPLETE DESCRIPTION OF SHIPMENT**

TRANSPORTING COMPANY

"I certify the material hauled from the above location has not been added to or mixed with, and is the same material received from the above mentioned Generator, and that no additional materials have been added"

NAME Bekah Dugay

**SIGNATURE**

## **APPENDIX C**

### **Field Notes**

**ENVIROTECH INC.**  
**FARMINGTON, NM 5796 HIGHWAY 64**  
**MONITOR WELL DATA**

Date: 12-01-03

Project No: 01079-004

Project Name: Chevron Texaco

Chain of Custody No.: \_\_\_\_\_

Location: Gallinas Gully Sand Unit

Project Manager: CJL

Sampler: T Long

## MONITOR WELL DATA

Notes: TOC = Top of Casing

Bailed = 3 well volumes:

1.25" well = 0.19 gal/ft.

3.00" well = 0.49 gal/ft.

1.00" well = 1.96 gal/ft

Note well diameter if not one of the above

## **APPENDIX D**

### **Workplan**

# ENVIROTECH INC.

5796 U.S. Highway 64 Farmington, NM 87401 Tel (505) 632-0615 Fax (505) 632-1865

Mr. Bill Freeman  
Navajo Nation EPA  
P.O. Box 1999  
Shiprock, NM 87420  
Phone (505) 368-1040  
Fax (505) 368-1042

Mr. James Walker  
US EPA c/o BLM  
1235 La Plata Hwy  
Farmington, NM 87401  
Phone (505) 599-8900  
Fax (505) 599-8998

November 3, 2003

Job #01079-003

**Re: ChevronTexaco Gallegos Gallup Sand Unit, NWSE S7, T26N, R11W, San Juan County, New Mexico Pit Closure Workplan**

Dear Mr. Freeman and Mr. Walker:

Envirotech Inc, on behalf of ChevronTexaco, is pleased to submit the following work plan for remediation of the unlined pit at the Gallegos Gallup Sand Unit, located in NWSE S7, T26N, R11W, San Juan County, New Mexico. The attached *Figure 1, Vicinity Map* shows the location of the unlined pit. Envirotech proposes to excavate the hydrocarbon impacted soil to a cleanup level of 1000 ppm TPH. The work will be done in accordance with the current BLM Guidelines.

This work will be undertaken with a ChevronTexaco approved health and safety plan. All work will be undertaken according to applicable OSHA regulations and any other applicable health and safety regulations.

### **Well Abandonment**

Envirotech proposes to abandon the existing (six) 6 monitor wells in the following manner:

All removable casing will be removed. The borehole will then be grouted to within three feet of the existing surface and the remaining portion of the borehole backfilled with native soil. Wells that do not permit casing removal will be grouted to the surface with grout. The grout will be tremied in place. After the grout has had sufficient time to set the casing will be cut off 3 feet below ground level and then backfilled with native soil.

### **Water Removal**

Any existing water in the pit will be removed by a vacuum truck and transported to Envirotech's Permitted Land Farm #2 for offsite disposal.

### **Fencing and Site Preparation**

Prior to well removal and site preparation, at least two benchmarks will be set and surveyed in to the existing monitor wells. These points will be used to establish total in place volume removed at the end of the excavation prior to back filling. The existing fencing and berms will be removed and disposed of appropriately off-site. The area to be used for stockpiling will be cleared of brush. Temporary fencing will be provided to prohibit livestock and persons after normal work hours.

### Excavation, Transport, Disposal, Stockpiling and Backfilling

Envirotech proposes to use one trackhoe, two front-end loaders and four 20 yard trucks to excavate the soil, stockpile the clean soil and transport the contaminated soil to Envirotech's NMED Permitted Landfarm #2, approximately 6 miles from the site. Clean virgin fill soil will be backhauled from the landfarm. The soil will be monitored in the field using a photoionization detector (PID) on a regular basis to segregate contaminated soil (100 ppm or greater) from clean soil. Envirotech proposes to allow the pit to naturally slope as it is excavated in order to achieve the target depth of approximately 15 feet and slope of 30 degrees.

Following completion of excavation, composite soil samples will be collected from the walls and bottom of the excavation. The samples will be analyzed for BTEX using USEPA Method 8021B and TPH using USEPA Method 8015. After receiving favorable analytical results, the excavation will be terminated and backfilling with clean soil will begin.

Backfilling will be performed in six-inch lifts and wheel rolled to compact it. The excavation will be mounded slightly to allow runoff. The top of the excavation will be seeded using BLM Seed Mix #1. The seed mixture will be mulched with certified weed free straw and disked in to prevent erosion. The reseeded area will be monitored on a monthly basis for one year.

Following reseeding of the disturbed area, a report will be prepared that includes site photos, bills of lading, description of daily activities, headspace readings, and confirmation laboratory analyses.

### Completion Time

Envirotech has the work scheduled to start on or about November 10, 2003, and we estimate the fieldwork will require approximately 12 working days to complete.

Respectfully Submitted,  
**ENVIROTECH INC.**

  
C. Jack Collins, P.G. #1822  
Chief Environmental Scientist/Hydrogeologist  
NM CES # 038  
[jcollins@envirotech-inc.com](mailto:jcollins@envirotech-inc.com)

Reviewed by,

  
Morris D. Young  
President  
NM CES # 098  
[myoung@envirotech-inc.com](mailto:myoung@envirotech-inc.com)

Attachment: Vicinity Map

Cc: Bob Sterret, Engineering Management Support Incorporated  
Joe Rezendes, ChevronTexaco  
Denny Foust, NMOCD, Farmington

Bill Blackard, BLM Farmington

## **APPENDIX E**

### **Site Photos**

**Gallegos Gallup Sand Unit Pit Closure Site Photographs**  
**November 10, 2003**



**Photo 1: View to the south showing removal of the overburden**

**Gallegos Gallup Sand Unit Pit Closure Site Photographs**  
**November 11, 2003**



**Photo 2:** View to the east showing hydrocarbon-impacted soil.



**Photo 3:** View to the north showing removal of hydrocarbon-impacted soil.

**Gallegos Gallup Sand Unit Pit Closure Site Photographs**  
**November 11, 2003**



**Photo 4:** View to the northwest of the excavation area.



**Photo 5:** View to the northeast showing removal of the overburden.

Gallegos Gallup Sand Unit Pit Closure Site Photographs  
November 11, 2003

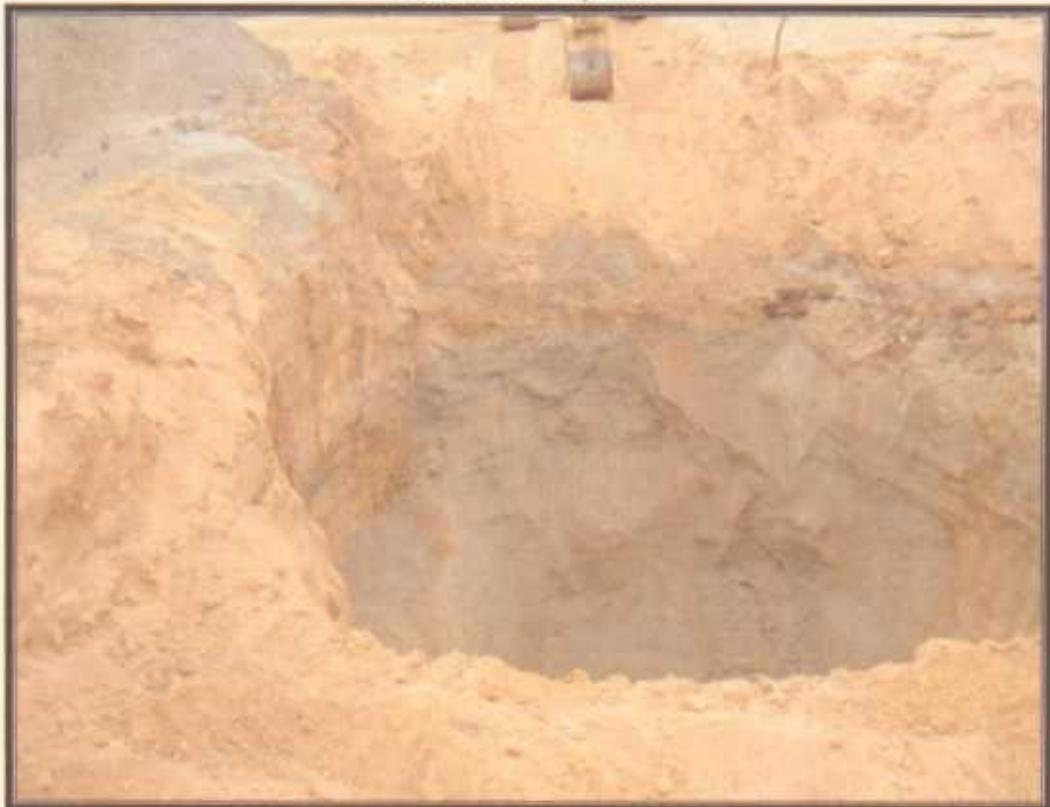


Photo 6: View to the north showing the excavation area.



Photo 7: View to the east showing excavation area.

Gallegos Gallup Sand Unit Pit Closure Site Photographs  
November 12, 2003



Photo 8: View to the west of the excavation area.



Photo 9: View to the northeast. Shows thin layer of hydrocarbon-impacted soil on east side of pit.

Gallegos Gallup Sand Unit Pit Closure Site Photographs  
November 13, 2003

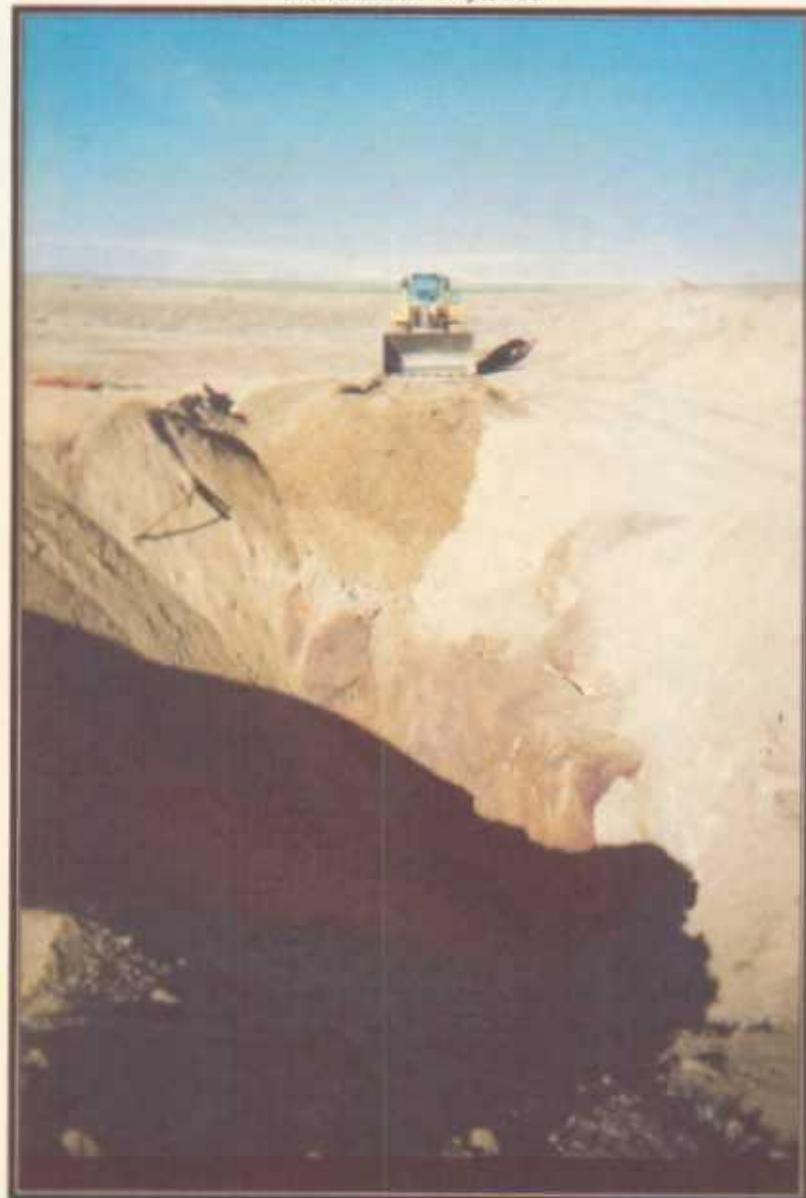


Photo 10: View to the north showing application of "oxidizer".



Photo 11: View to the north showing application of "oxidizer".

**Gallegos Gallup Sand Unit Pit Closure Site Photographs**  
**November 13, 2003**



**Photo 12:** View to the north showing start of backfill activities.

Gallegos Gallup Sand Unit Pit Closure Site Photographs  
December 1, 2003

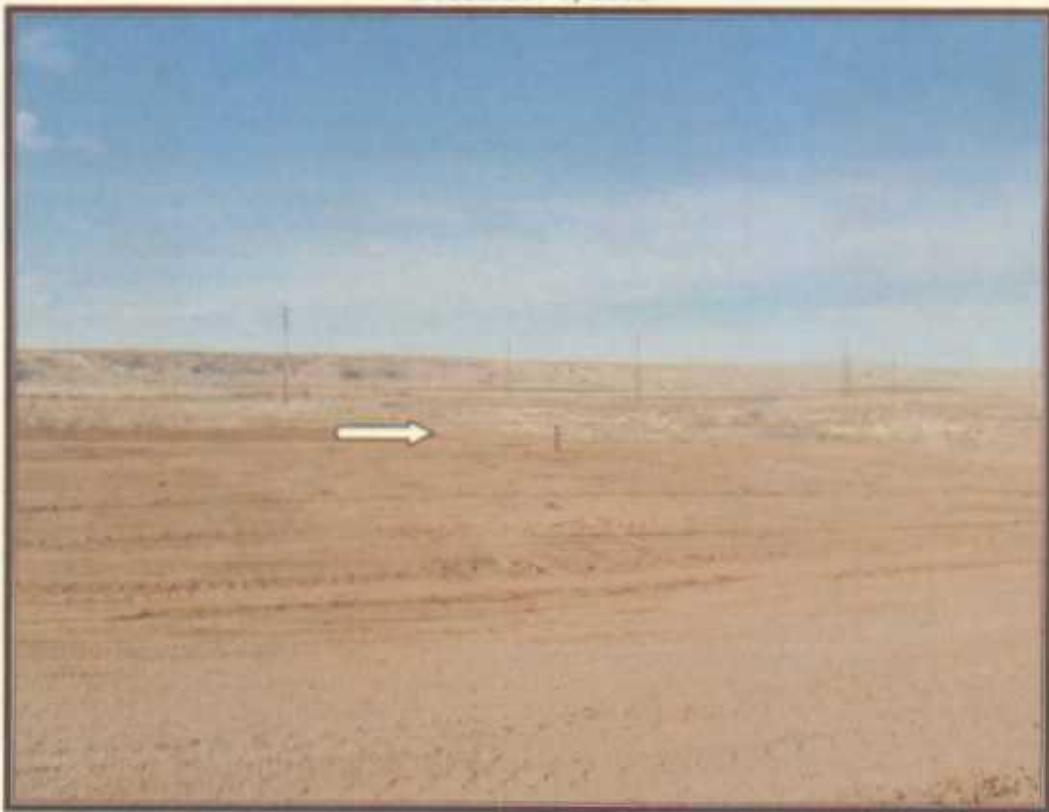


Photo 13: View to the west showing completion of backfill activities, final grade and MW-7.



Photo 14: View to the northwest showing completion of closure activities.

**Gallegos Gallup Sand Unit Pit Closure Site Photographs**  
**December 1, 2003**



**Photo 15: View to the west of MW-7.**