1R -

REPORTS

DATE:



5309 Wurzbach, Suite 100 San Antonio, Texas 78238 (210) 680-3767 (210) 680-3763 FAX

RECEIVED

MAY 0 2 2000

Mr. Randall Dunn SID RICHARDSON GASOLINE COMPANY P. O. Box 1226 Jal, New Mexico 88252 ENVIRONMENTAL BUREAU OIL CONSERVATION DIVISION

Re: Closure Report

April 26, 2000

J. Anthony Ranch Historical Release Site JAR-3
Unit Letter A, Section 36, Township 25 South, Range 37 East
Lea County, New Mexico
Job No. 960001-20

Dear Mr. Dunn:

Transmitted with this letter is the Closure Report for the Sid Richardson Gasoline Company J. Anthony Ranch Historical Release Site JAR-3. The site is located approximately 2 miles southwest of State Highway 205 and Whitworth Drive near Jal, Lea County, New Mexico.

Please contact me at (210) 680-3767 if you have any questions.

Respectfully,

Theresa Nix

Project Manager

Theresa Nix

Enclosure

cc: William C. Olson, OCD Santa Fe

Chris Williams, OCD Hobbs



5309 Wurzbach, Suite 100 San Antonio, Texas 78238 (210) 680-3767 (210) 680-3763 FAX

CLOSURE REPORT

SID RICHARDSON GASOLINE COMPANY
J. ANTHONY RANCH HISTORICAL RELEASE SITE JAR-3
UNIT LETTER A, SECTION 36
TOWNSHIP 25 SOUTH, RANGE 37 EAST
LEA COUNTY, NEW MEXICO

PREPARED FOR:

SID RICHARDSON GASOLINE COMPANY

P. O. Box 1226 Jal, New Mexico 88252

Mr. Randall Dunn

PREPARED BY:

KEI

Theresa Nix Project Manager

Theresa Nix

Michael J. Lewis, P.E

Senior Engineer

TABL	E OF	CON	TENTS
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1
1
1
4

PURPOSE AND SCOPE

The objective of the site closure activities was to obtain closure for the site based on New Mexico Oil Conservation Division (OCD) regulations. The following activities were performed to achieve this objective:

- determination of closure standards
- removal of impacted soil
- characterization of removed impacted soil
- off-site disposal of impacted soil
- sampling remaining soils to verify closure levels
- backfilling the excavation with clean soil
- planting grass seed and irrigating to re-establish vegetative growth

SITE BACKGROUND

The Sid Richardson Gasoline Company (SRGC), J. Anthony Ranch release site JAR-3, is located 2 miles southwest of State Highway 205 and Whitworth Drive near Jal, Lea County, New Mexico. The site is located in Unit Letter A, Section 36, Township 25 South, Range 37 East. A site location map is presented as FIG. 1.

The landowner notified SRGC of the area that would not sustain vegetative growth. According to the landowner, the release occurred approximately 25 years ago.

SRGC collected a soil sample from the site on April 26, 1999. The sample was submitted to Trace Analysis Inc. for determination of total petroleum hydrocarbons (TPH) and chloride concentrations. Laboratory results indicated a TPH concentration of 6,720 mg/kg and a chloride concentration of 34 mg/kg. The laboratory report is presented in APPENDIX A.

SRGC contracted KEI to determine vertical and horizontal extent, to confirm maximum TPH concentration, and to determine site closure concentrations. Site details are presented on FIG. 2.

CLOSURE ACTIVITIES

CLOSURE STANDARDS

The New Mexico OCD Guidelines for Remediation of Leaks, Spills, and Releases contains the standard criteria for remediation activities. A ranking analysis for the site was performed to determine appropriate soil remediation levels. The ranking analysis is as follows:

Depth to Ground Water	Greater Than 100 Feet	0 Points
Well Head Protection	Greater Than 1000 Feet to Water Source Greater Than 200 Feet to Private Water Source	0 Points
Surface Water Body	Greater Than 1000 Feet	0 Points
	Total Ranking Score	0 Points

Depth to ground water was confirmed by an actual reading obtained at a cathodic ground bed well located approximately 200 yards south of the site. Based on the total ranking score, the closure objectives for this site for concentrations of benzene, BTEX, and TPH in soil are summarized below.

CONSTITUENT	CLOSURE CONCENTRATIONS (mg/kg)
BENZENE	10
BTEX	50
TPH	5,000

INITIAL INVESTIGATION

On June 14, 1999, 4 soil borings were advanced using a hand auger to obtain soil samples for vertical and horizontal delineation of the impacted area. A photo-ionization detector (PID) was utilized to evaluate the impact at selected intervals in each boring. The PID readings for each boring are presented in the following table.

BORING ID	DEPTH (feet)	PID READING (ppm)
B-1	0.5	4.1
	2.0	17.7
	4.0	13.6
	5.0	ND
B-2	0.5	0.8
	2.0	1.2
B-3	0.5	2.4
	2.0	1.2
B-4	0.5	2.8
	2.0	0.8

Soil samples obtained from boring B-1 at 2 feet and 5 feet below ground surface were also submitted to Xenco Laboratories, Inc. in San Antonio, Texas. The samples were each analyzed for total petroleum hydrocarbons (TPH) concentrations using EPA Method 418.1. The results are presented in the table below.

SAMPLE LOCATION	DEPTH (feet)	TPH CONCENTRATION (mg/kg)
B-1	2.0	2,100
B-1	5.0	<10.0

A composite sample obtained from boring B-1 was submitted to Xenco Laboratories for determination of chloride, sulfate, ammonia-nitrogen, and sulfide concentrations using EPA Methods 300.0, 350.2, and 376.2. The ammonia-nitrogen and sulfides concentrations were below laboratory reporting limits. The chloride and sulfate concentrations are presented in the following table.

SAMPLE LOCATION	CHLORIDE CONCENTRATION (mg/kg)	SULFATE CONCENTRATION (mg/kg)
B-1	30	4,530

A background sample was obtained from an unaffected area in the site vicinity and submitted to Xenco Laboratories for determination of chloride, sulfate, ammonia-nitrogen, and sulfide concentrations using EPA Methods 300.0, 350.2, and 376.2. The ammonia-nitrogen and sulfide concentrations were below laboratory reporting limits. The chloride and sulfate concentrations are presented in the following table.

SAMPLE LOCATION	CHLORIDE CONCENTRATION (mg/kg)	SULFATE CONCENTRATION (mg/kg)
Background	5	39

Analytical results from the soil samples are summarized in TABLE I. Soil analytical reports are presented in APPENDIX A.

EXCAVATION, BACKFILL, AND DISPOSAL

The maximum TPH concentration obtained during the soil boring investigation was 2,100 mg/kg, which is below closure concentration for the site. However, the landowner required removal of all stained or discolored soil and replacement with soil capable of sustaining vegetative growth.

The stained surface soils were excavated on August 13, 1999 using a front loader to remove surface sands to reveal the impacted area. The Sid Richardson Gasoline Company's 4 inch gas pipeline was buried at an approximate depth of 3 feet below ground surface. A backhoe was used to excavate around the pipeline to a maximum depth of 8 feet. The remainder of the impacted soils were removed with the front loader. Excavated soil was stockpiled on-site pending transport to the disposal site. The measurements of the excavation and soils removed are summarized below:

MEASUREMENT	VALUE
Length	25 feet
Width	20 feet
Excavated Area	Approximately 500 square feet
Maximum Depth	Approximately 8 feet
Volume Disposed	Approximately 100 cubic yards
Fresh Soil Hauled to Site	Approximately 100 cubic yards
Assumed Depth to Water	185 feet

Permission was obtained from the Oil Conservation Division to use the excavated soil for fill material at the Sid Richardson Shoals Compressor site since the soil did not exceed closure concentrations. Prior to using the soil for berm fill material at the Shoals Compressor site, a composite sample was obtained from all the soils that had been hauled to the site. The sample was submitted to Environmental Lab of Texas, Inc. for determination of TPH

concentration using EPA Method 418.1. The TPH concentration is presented in the following table.

SAMPLE LOCATION	TPH CONCENTRATION (mg/kg)
Shoals Compressor Site	<10

Analytical results from the soil sample is summarized in TABLE I. Soil analytical reports are presented in APPENDIX A.

Native silty sand soil from an unaffected borrow pit area of the J. Anthony Ranch was obtained from the landowner and used to backfill the excavation site. On August 18, 1999, approximately 100 yards of soil was used to backfill the excavation. Site photographs are presented in APPENDIX B.

CONFIRMATION SAMPLING

One composite confirmation soil sample was obtained from the excavation floor and sidewalls on August 13, 1999. Several random grab samples were composited into a plastic container and analyzed with a PID instrument. The PID reading was non-detectable.

The composite sample was placed into a glass container provided by the laboratory and submitted to Environmental Labs of Texas, Inc. for determination of Total Petroleum Hydrocarbon (TPH) concentration using EPA Method 418.1 and sulfates concentrations using EPA Method SW846-9038. The concentration results are presented below:

SOIL	TPH	SULFATES
CONSTITUENT	(mg/kg)	(mg/kg)
Bottom	ND	1,358

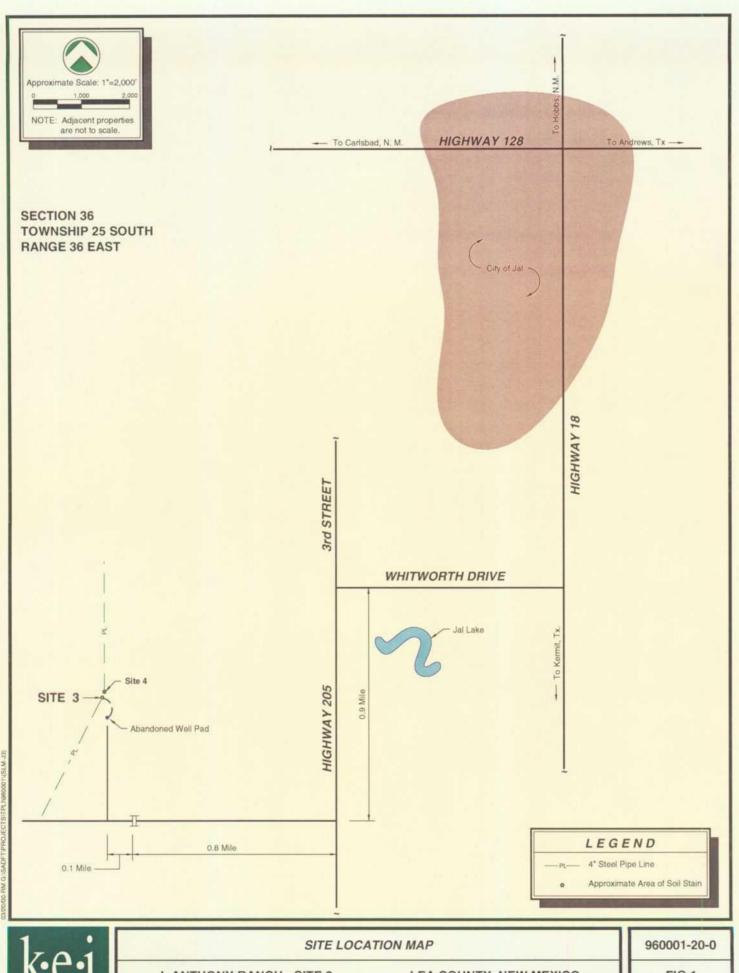
Soil analytical results are summarized in TABLE I. Soil analytical reports are presented in APPENDIX A. The soil sample location and result is presented on FIG. 2.

CLOSURE SUMMARY

The following can be summarized from field and laboratory data:

 soil impacted by Sid Richardson Gasoline Company's release was excavated, stockpiled, and disposed off-site.

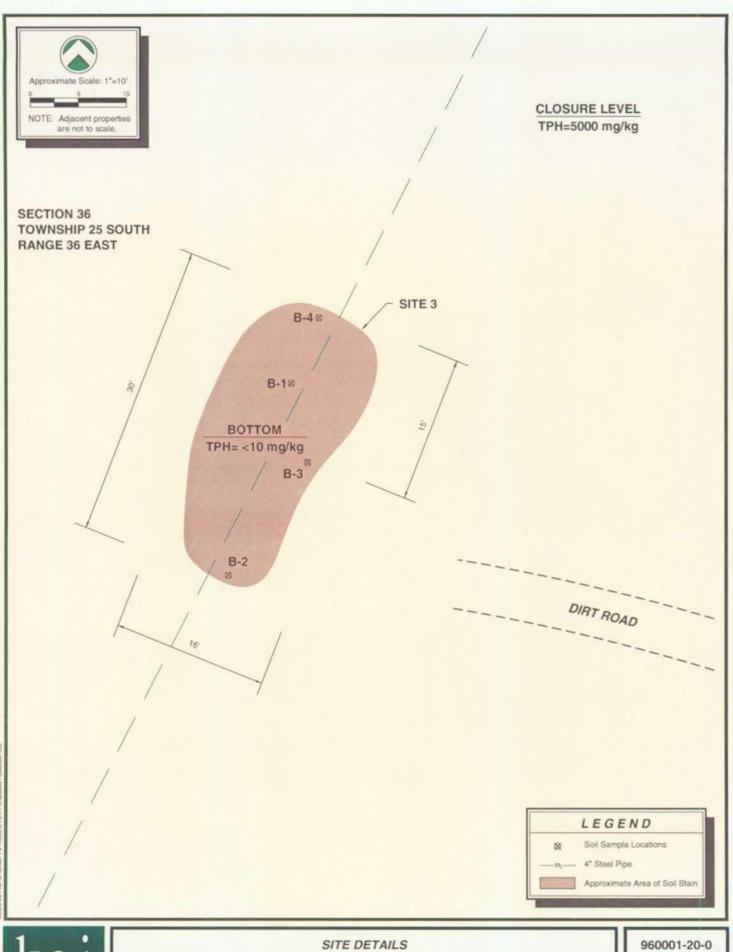
Based on activities completed at the site, Sid Richardson Gasoline Company requests that this release site be closed under OCD regulations.



J. ANTHONY RANCH - SITE 3

LEA COUNTY, NEW MEXICO

FIG 1



kei

J. ANTHONY RANCH - SITE 3

LEA COUNTY, NEW MEXICO

FIG 2

GENERAL NOTES

ND - Indicates PID reading of 0.0.

--- - Indicates sample was not analyzed for constituent listed.

Method detection/reporting limits:

TPH - 10 mg/kg
Chloride - 20 mg/kg
Sulfate - 20 mg/kg
Ammonia-Nitrogen - 4.0 mg/kg
Sulfide - 5.0 mg/kg

Laboratory test methods:

TPH - EPA Method 418.1 Chloride - EPA Method 300.0

Sulfate - EPA Method 300.0 and SW846-9038

Ammonia-Nitrogen - EPA Method 350.2 Sulfide - EPA Method 376.2

TABLE I

SUMMARY OF LABORATORY RESULTS - SOIL J. ANTHONY RANCH HISTORICAL RELEASE SITE JAR-3

SAMPLE LOCATION	SAMPLE DATE	DEPTH (feet)	PID READING (ppm)	TPH (mg/kg)	CHLORIDE (mg/kg)	SULFATE (mg/kg)	AMMONIA- NITROGEN (mg/kg)	SULFIDE (mg/kg)
BACKGROUND	06/14/99	**			5	39	<4.0	<5.0
B-1	06/14/99	0.5	4.1	_				
B-1	06/14/99	2.0	17.7	2,100	_	•		
B-1	06/14/99	4.0	13.6					
B-1	06/14/99	5.0	ND	<10.0				
B-2	06/14/99	0.5	0.8					
B-2	06/14/99	2.0	1.2					
B-3	06/14/99	0.5	2.4					
B-3	06/14/99	2.0	1.2					
B-4	06/14/99	0.5	2.8				alpha de	
B-4	06/14/99	2.0	0.8					
B-1	06/14/99	COMPOSITE			30	4,530	<4.0	<5.0
EXCAVATION BOTTOM	08/13/99	COMPOSITE	ND	<10		1,358		
SHOALS COMPRESSOR	10/28/99	COMPOSITE	ND	<10				

ANALYTICAL REPORT -92394

for

KEI Consultants, Ltd.

Project Manager: S. Grover

Project Name: Sid Richardson

Project Id: 910107-1-0

June 28, 1999



HOUSTON - DALLAS - SAN ANTONIO

11381 Meadowglen Lane Suite L * Houston, Texas 77082-2647 Phone (281) 589-0692 Fax (281) 589-0695



11381 Meadowglen Suite L Houston, Texas 77082-2647 (281) 589-0692 Fax: (281) 589-0695 Houston - Dollas - San Antonio - Latin America

June 28, 1999

Project Manager: S. Grover KEI Consultants, Ltd. 5309 Wurzbach Rd. Suite 100 San Antonio, TX 78238

Reference: XENCO Re

XENCO Report No.: -92394

Project Name: Sid Richardson

Project ID: 910107-1-0 Project Address: Jal, N.M.

Dear S. Grover:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with XENCO Chain of Custody Number -92394.r All results being reported to you apply only to the samples analyzed, properly identified with a Laboratory ID number. This letter documents the official transmission of the contents of the report and validates the information contained within.

All the results for the quality control samples passed thorough examination. Also, all parameters for data reduction and validation checked satisfactorily. In view of this, we are able to release the analytical data for this report within acceptance criteria for accuracy, precision, completeness or properly flagged.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 3 years in our archives and after that time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in COC No. -92394r will be filed for 60 days, and after that time they will be properly disposed of without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

XENCO operates under the A2LA guidelines. Our Quality System meets ISO/IEC Guide 25 requirements which is strictly implemented and enforced through our standard QA/QC procedures.

We thank you for selecting XENCO Laboratories to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Sincerely,

Ecdie L. Clemons, II

QA/QC Manager

Recipient of the Prestigious Small Business Administration Award of Excellence in 1994.

Certified and approved by numerous States and Agencies.

A Small Business and Minority Status Company that delivers SERVICE and QUALITY!

ANALYTICAL CHAIN OF CUSTODY REPORT CHRONOLOGY OF SAMPLES

KEI Consultants, Ltd.

Project ID: 910107-1-0

Project Manager: S. Grover Project Location: Jal, N.M.

Project Name: Sid Richardson

XENCO COC#: -92394

Date Received in Lab: Jun 15, 1999 11:30 by SE

XENCO contact: Carlos Castro/Debbie Simmons

Method Units EPA 300.0 mg/kg 7 EPA 350.2 mg/kg 7 EPA 350.2 mg/kg 7 EPA 300.0 mg/kg 7	Turn Collected Around Collected 7 days Jun 14, 1999 10:47 7 days Jun 14, 1999 10:47 7 days Jun 14, 1999 10:36 7 days Jun 14, 1999 10:36	Requested	Extraction Jun 25, 1999 by AO Jun 23, 1999 by IF Jun 21, 1999 by IF	Analysis Jun 25, 1999 14:17 by AO Jun 23, 1999 15:30 by IF
mg/kg mg/kg mg/kg			Jun 25, 1999 by AO Jun 23, 1999 by IF Jun 21, 1999 by IF	Jun 25, 1899 14:17 by AO Jun 23, 1999 16:30 by IF
mg/kg mg/kg			Jun 23, 1999 by IF Jun 21, 1999 by IF	Jun 23, 1999 15:30 by IF
mg/kg mg/kg			Jun 21, 1999 by IF	11. 24 4000 44.4K hv IE
mg/kg			**************************************	11 Kn 04.41 0001 (12 1100
malka			Jun 25, 1999 by AO	Jun 25, 1999 14:37 by AO
Bu Bu			Jun 23, 1999 by IF	Jun 23, 1999 15:50 by IF
EPA 350.2 mg/kg 7	7 days Jun 14, 1999 10:36		Jun 21, 1999 by IF	Jun 21, 1999 15:15 by IF
EPA 300.0 mg/kg 7	7 days Jun 14, 1999 09:08		Jun 25, 1999 by AO	Jun 25, 1999 14:47 by AO
EPA 376.2 mg/kg 1	7 days Jun 14, 1999 09:08		Jun 23, 1999 by IF	Jun 23, 1999 16:00 by IF
EPA 350.2 mg/kg 7	7 days Jun 14, 1999 09:08		Jun 21, 1999 by IF	Jun 21, 1999 15:30 by IF
EPA 418.1 mg/kg 7	7 days Jun 14, 1999 09:36		Jun 16, 1999 by ML	Jun 16, 1899 10:52 by ML
EPA 418.1 mg/kg 7	7 days Jun 14, 1999 10:14		Jun 16, 1999 by ML	Jun 16, 1999 10:56 by ML
EPA 418.1 mg/kg 7	7 days Jun 14, 1999 10:06		Jun 16, 1999 by ML	Jun 16, 1999 11:00 by ML
EPA 418.1 mg/kg	7 days Jun 14, 1999 08:22		Jun 16, 1999 by M.L.	Jun 16, 1999 11:04 by ML
mg/kg mg/kg mg/kg mg/kg mg/kg		999 999 09: 90 999 999 999 999 999 999 9		

CERTIFICATE OF ANALYSIS SUMMARY -92394

G. V. C. A.		(KEI Consultants, Ltd.	nts, Ltd.			
Project ID: 91010/-1-0		Proj	Ject Name: Sid Richardson	hardson	Date Received in I	Date Received in Lab: Jun 15, 1999 11:30	1:30
Project Manager: S. Grover					Date Report Fa	Date Report Faxed: Jun 28, 1999	
Project Location: Jal, N.M.			•		XENCO CON	XENCO contact: Carlos Castro/Debbie Simmons	ebbie Simmons
	Lab ID:	92394 001	92394 002	92394 003	92394 004	92394 005	92394 006
	Field ID:	Jar 4,1	Jar 4,2	Jar 3,1	4,1,2,0	4,1,5.0	3.1.2.0
Analysis Reguested	Depth:						
	Matrix:	Solid	Solid	Solid	Solid	Solid	Solid
	Sampled:	06/14/99 10:47	06/14/99 10:36	06/14/99 09:08	06/14/99 09:36	06/14/99 10:14	06/14/99 10:05
Anions by Ion Chromatography	Analyzed: 06/25/99	06/25/99 B	06/25/99	66/52/90			
EPA 300.0	Units:		mg/kg	mg/kg			
Chloride		5 (4)	42 (20)	30 (20)			
Sulfate		39 (4)	8360 (40)	4530			
Ammonia-Nitrogen	Analyzed:	Analyzed: 06/21/99 B	06/21/99 B	06/21/99			
EPA 350.2	Units:		mg/kg				
Ammonia-Nitrogen		< 4.0 (4.0)	14.0 (4.0)	< 4.0 (4.0)			
Sulfide, Colorimetric	Analyzed:	Analyzed: 06/23/99	06/23/99	06/23/99			
EPA 376.2	Únits:	Únits: mg/kg R.L.	mg/kg K.L.	mg/kg R.L.		,	
Sulfide		< 5.0 (5.0)	< 5.0 (5.0)	< 5.0 (5.0)			
Total Petroleum Hydrocarbons	Analyzed:				06/16/99	06/16/00	064600
EPA 418.1	Únits:				mg/kg R.L.	ma/ka	R.L. Dollolss R.L.
Total Petroleum Hydrocarbons					7100 (1000)	_	
						2	

Eddie L. Clemons, I QA/QC Manager

KEI Consultants, Ltd..

This report summary, and the entire report it represents, has been made for the exclusive and confidential use of KEI Cons. The interpretations and results expressed through this analytical report represent the best judgment of XENCO Laboratories. XENCO Laboratories, however, assumes no responsibility and makes no warranty to the end use of the data hereby presented.

CERTIFICATE OF ANALYSIS SUMMARY -92394

KEI Consultants, Ltd.

Project Name: Sid Richardson

Project ID: 910107-1-0

S. Grover

Project Manager:

Project Location: Jal, N.M.

Date Received in Lab : Jun 15, 1999 11:30

Date Report Faxed: Jun 28, 1999

XENCO contact: Carlos Castro/Debbie Simmons

	Lab ID: Field ID:	92394 007 3,1,5,0	
Analysis Requested	Deptn: Matrix: Sampled:	Solid 06/14/99 08:22	
Total Petroleum Hydrocarbons	Analyzed: 06/16/99	06/16/99 B	
EPA 418.1	Units:	Units: mg/kg	
Total Petroleum Hydrocarbons		< 10.0 (10.0)	

s fentas

Eddie L. Clemons, II QA/QC Manager

KEI Consultants, Ltd..

The interpretations and results expressed through this analytical report represent the best judgment of XENCO Laboratories. XENCO Laboratories, however, assumes no responsibility and makes no warranty to the end use of the data hereby presented.

This report summary, and the entire report it represents, has been made for the exclusive and confidential use of



Certificate Of Quality Control for Batch ::: 19A10B09

EPA 300.0 Anions by Ion Chromatography

Date Validated: Jun 28, 1999 12:15

Analyst: AO

Date Analyzed: Jun 25, 1999 14:17

Matrix: Solid

		10-10-14-6-1-21	DUPLICATI	EANALYS	il s	
Q.C. Sample ID	(A)	(B)	[C]	[D]	[E]	[F]
	Sample	Duplicate		QC	LIMITS	1
92394- 001	Result	Result	Detection	Relative	Relative	Qualifier
Parameter	-		Limit	Difference	Difference	
	mg/kg	mg/kg	mg/kg	%	%	,
Chloride	4.7	4.4	4.0	6.6	20.0	
Sulfate	38.9	41.6	4.0	6.7	20.0	



Certificate Of Quality Control for Batch: 19A10B09

Anions by Ion Chromatography EPA 300.0

Date Validated: Jun 28, 1999 12:15

Date Analyzed: Jun 25, 1999 11:43

Analyst: AO

Matrix: Solid

Qualifier 70-125 70-125 Blank Spike Recovery Range * 105.0 109.0 Recovery B.S.D. * ၁ Ξ 109.0 109.0 Blank Spike Recovery BLANKSPIKE // BLANK SPIKE DUPLICATE AND RECOVERY * ဗ္ဗ 9 Spike Relative 3.7 0.0 Difference ပ္မ * 20.0 20.0 Difference Relative Blank Limit * 0.20 0.20 mg/kg Detection Limit 叵 10.00 10.00 mg/kg Amount Spike Blank 10.50 10.90 Blank Spike **Duplicate** mg/kg Result ច 10.90 10.90 Blank Spike mg/kg Result 匫 < 0.20 < 0.20 mg/kg Result Blank ₹ Parameter Chloride Sulfate

Ξ

Eddle L. Clemons, II QA/QC Manager

B.S.D. Recovery [H] = 100*(C-A)/[D]
N.D. = Below detection limit or not detected
All results are based on MDL and validated for QC purposes Spike Relative Difference [F] = 200*(B-C)/(B+C) Blank Spike Recovery [G] = 100*(B-A)/[D] B.S.D. = Blank Spike Duplicate

Houston Dallas San Antonio



Certificate Of Quality Control for Batch 3 19A20A89

EPA 350.2 Ammonia- Nitrogen

Date Validated: Jun 22, 1999 12:10 Date Analyzed: Jun 21, 1999 14:45 Analyst: IF

Matrix: Solid

		MATRIXI	UPLICATI	EANALYS	is ·	
O.C. Samuela III	[A]	[B]	[C]	[O]	[E]	(F)
Q.C. Sample ID	Sample	Duplicate		QC	LIMITS	İ
92394- 001	Result	Result	Detection	Relative	Relative	Qualifier
Description	7 (Limit	Difference	Difference	
Parameter	mg/kg	mg/kg	mg/kg	. %	%	
Ammonia-Nitrogen	< 4.00	< 4.00	4.00	N.C	25.0	



Certificate Of Quality Control for Batch 1: 19A20A89.

EPA 350.2 Ammonia- Nitrogen

Date Validated: Jun 22, 1999 12:10

Analyst: IF

Date Analyzed: Jun 21, 1999 14:00

Matrix: Solid

		BLANK SPII	KE ANALYS	SIS		
[A]	(B)	[C]	[D]	(E)	(F)	[G]
Blank	Blank Spike	Blank		QC	LIMITS	
Result	Result	Spike	Detection	Blank Spike	Recovery	Qualifier
	1	Amount	Limit	Recovery	Range	
mg/kg	mg/kg	mg/kg	mg/kg	%	%	
< 4.00	9.52	10.00	4.00	95.2	70-125	
	Blank Result mg/kg	[A] [B] Blank Blank Spike Result Result mg/kg mg/kg	[A] [B] [C] Blank Blank Spike Blank Result Result Spike Amount mg/kg mg/kg mg/kg	[A] [B] [C] [D] Blank Blank Spike Blank Result Result Spike Detection Amount Limit mg/kg mg/kg mg/kg mg/kg	Blank Blank Spike Blank QC Result Result Spike Detection Blank Spike Amount Limit Recovery mg/kg mg/kg mg/kg mg/kg %	[A] [B] [C] [D] [E] [F] Blank Blank Spike Blank Result Spike Detection Blank Spike Recovery Amount Limit Recovery Range mg/kg mg/kg mg/kg mg/kg % %

Blank Spike Recovery [E] = 100*(B-A)/(C)

N.C. = Not calculated, data below detection limit

N.D. = Below detection limit

All results are based on MDL and validated for QC purposes only

Eddie L. Clemons, II
QA/QC Manager



Centificate Of Quality Control for Batch 2/19/41/2025

EPA 376.2 Sulfide, Colorimetric

Date Validated: Jun 24, 1999 10:15

Analyst: IF

Date Analyzed: Jun 23, 1999 15:30

Matrix: Solid

		MATRIX I	DUPLICAT	E ANALYS	is ;	
Q.C. Sample ID	[A]	[B]	[C]	[D]	[E]	[F]
<u> </u>	Sample	Duplicate		QC	LIMITS	1
92394- 001	Result	Result	Detection	Relative	Relative	Qualifier
Parameter			Limit	Difference	Difference	
raiameter	mg/kg	. mg/kg	mg/kg	%	%	
Sulfide	< 5.00	< 5.00	5.00	N.C	20.0	



Certificate Of Quality Control for Batch

Sulfide, Colorimetric **EPA 376.2**

Date Validated: Jun 24, 1999 10:15

Analyst: IF

Matrix: Solid

Date Analyzed: Jun 23, 1999 15:00

			BLANK SPII	(EANALYS	SIS		
	[A]	[B]	[C]	[D]	(E)	(F)	[G]
	Blank	Blank Spike	Blank		QC	LIMITS	
Parameter	Result	Result	Spike	Detection	Blank Spike	Recovery	Qualifier
i .			Amount	Limit	Recovery	Range	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	:
Sulfide	< 5.00	932	971	5.00	96.0	70-125	

Blank Spike Recovery [E] = 100*(B-A)/(C) N.C. = Not calculated, data below detection limit

N.D. = Below detection limit

All results are based on MDL and validated for QC purposes only

Eddie L. Clemons, II QA/QC Manager



Centificate Of Quality Control for Batch : 19A30A67

EPA 418.1 Total Petroleum Hydrocarbons

Date Validated: Jun 16, 1999 15:00 **Date Analyzed:** Jun 16, 1999 10:08

Analyst: ML

Matrix: Solid

	7.00		BLANK SPII	KE ANALYS	SIS .		
	[A]	(B)	[C]	[D]	(E)	[F]	[G]
	Blank	Blank Spike	Blank		QC	LIMITS	
Parameter	Result	Result	Spike	Detection	Blank Spike	Recovery	Qualifier
	mg/kg	mg/kg	Amount mg/kg	Limit mg/kg	Recovery %	Range %	
Total Petroleum Hydrocarbons	< 10.00	182	201	10.00	90.5	65-135	-

Blank Spike Recovery [E] = 100*(B-A)/(C) N.C. = Not calculated, data below detection limit

N.D. = Below detection limit

All results are based on MDL and validated for QC purposes only

Eddie L. Clemons, II



Certificate Of Quality Control for Batch 19A30A67

Total Petroleum Hydrocarbons EPA 418.1

Date Validated: Jun 16, 1999 15:00

Date Analyzed: Jun 16, 1999 10:32

Analyst: ML

Matrix: Solid

65-135 Matrix Spike Recovery Range * 7.6 Recovery M.S.D. * ဗ္ဗ Ξ 86.1 Matrix Spike MATRIX SPIKE (IMATRIX SPIKE DUPLICATE AND REGOVER) Recovery * <u>ত</u> ပ္တ Spike Relative 10.3 Difference ဗ္ဗ Ε * Difference 30.0 Relative Matrix Limit 10.00 mg/kg Detection Limit Limit 亘 Amount mg/kg Spike Matrix 156 Matrix Spike Duplicate mg/kg Result ច Matrix Spike mg/kg Result e Sample mg/kg Result ₹ Q.C. Sample ID 92392-003 Total Petroleum Hydrocarbons **Parameter**

Qualifier

5

Eddie L. Clemons, II

QA/QC Manager

Spike Relative Difference [F] = 200°(B-C)/(B+C) Matrix Spike Recovery [G] = 100°(B-A)/[D]

M.S.D. Recovery [H] = 100*(C-A)/[D] M.S.D. = Matrix Spike Duplicate

All results are based on MDL and validated for QC purposes N.D. = Below detection limit or not detected

Houston - Dallas - San Antonio

5309 Wurzbach Road, Sulte 104, San Antonio, TX 78238 210-509-3334 ☐ 11,381 Meadowglen, Suite L. Houston TX 77082 281-589-0692 11078 Morrison Road, Suite D, Dallas, TX 75229 972-481-9999 ह

ANALYSIS REQUEST & CHAIN OF CUSTODY RECORD

22378

Page | of

On-LINE Help & Technical Services at XENCO.com Work Order No: 307 Company COC No:

Lab Only Additions From: gc_Λ pλ: Date усл ру: Date From: Date From: gcv by: 435 490 0370 14d 21d Standard TAT is 10 Working Days Remarks Final Fax Due: -189-505 Siausz unless otherwise agreed in writing. But often reported in 5-7 Working Days Hold Analysis **W** 7/8w mg/kg \$ Highest Hit evoda HA9 :nbbA Final Report Data Package Due Date: 5 (109) 149 SIG pζ 154 ρç 39 48Þ **24**P **50P** Total Containers per COC: Rush TATs Fax Due: 79 × g K 24h 48h 3d 93394 See List Call PM SHA9 826 07S8 yd &AOVS TOL **A&N8** \$dd Ime tsiJ ee8 **BIEX MIBE** PPs TCL <u>Б</u> ళ 13PP 23TAL See List 1CLP8 dq tot METALS by 6010 SRCRA Date OYS8 vd 2HA9 **01**£8 0018 TAT: 5h 12h TPH by TX1005 (181) 8015GRO 8015DRO 315JetF ab Only: BIEX-MIBE DY Other 1208 8020 954 209 8590 Other 954 209 8590 8051 BIEX PY 8020 Relinquished to (Initials and Signature) □ Involce <u>5</u> <u>უ</u> Preservatives 402 GA CY Call for a P.O. 402 GA CU 7-(210) 680-376 ડુ -(210)-690-3763 80266 8026 40 GA Ιγρο 807 (402 Project Director (PD) Container Size 910107-1-0 ☐ Accounting ☐ Include Invoice with Final Report Attn PM P.O NoQ10101-1-01 # Containers Project ID **etab** Call Proj. PM. Composite Matrix V Depth ff, in Signatur**6** See Lab PM 83:00 26:36 · 6 · C

□ Previously done at XENCO [P:0] 10.3 20:01 28.22 h;0 Time (Initials and Signature) Richa 1850 M 66-41-Sampling Date 14-99 19-14-99 90-11-a 26-14-0 6-14-99 65 hI-a QAPP Sampler Name Rushy Saudie Location (A. M. M. Project Manager (PM) Fax Results to EPM and / or LONGL Same? ⋛ must have a P.O Bill to: 띪 5.d Relinquished by Special DLs (RR I Sample ID Project Name Specifications 20 Jac 4,2 Jar 4, 3,1,2,0 4,1,50 Invoice to 3,1,50 Company Quote No. Location 4 Joh

Rush Charges are Pre-Approved upon Requesting them. All Terms Apply TYPE Glass Amb (GA), Glass Clear (GC), Plastic (P), Other (O) Preservatives - Various (V), HCI pH<2 (H), H2SO4 pH<2 (S), HNO4 py/2 (Ny, NaQH+Asbc Acid (NAA), ZnAc+NaOH (ZA), (Cool,<4C) (C4), None (N), See Label (SL), Other (O) 2:30 10115/99 SIZE: 40z (4), 80z (8), 32oz (32), 40ml VOA (V), 1L (1), 500ml (.5), Fedlar Bag (B), Wipe (M), Other ä

ENVIRONMENTAL LAB OF , INC.

"Don't Treat Your Soil Like Dint"

KE) ATTN: MR. TONY SAVOIE P.O. BOX 1030 JAL, NEW MEDICO 88252 FAX: 505-585-3478

Sample Type: Son

Sample Condition: Image load

Project 8: 980001-1-0

Project Name: Sid Fichardson J.A.R. Project Location: 2 mi. South of Jal, N.M. Sampling Date: 10/28/99 Receiving Date: 10/26/99 Analysis Date: 10/26/99

	T PH	
FLT# FELD CODE	(mg/kg)	
21117 950001-1-0 Shoots Comp.	<10	•

% INSTRUMENT ACCURACY 96 % EXTRACTION ACCURACY 95 BLANK <10

METHODS: EPA 418.1

Ralade 1000

10-27-49 Date

ENVIRONMENTAL LAB OF , INC.

"Don't Treat Your Soil Like Dirt!"

KEI

ATTN: MR. TONY SAVOIE

P.O. BOX 735

JAL NEW MEXICO 88252

FAX: 505-395-3476

Sample Type: Soil

Sample Condition: Intact/ loed Project #: Sid Richardson Project Name: Jay Anthony Ranch

Project Location: Jal, N.M.

Sampling Date: 08/13/99 Receiving Date: 08/13/99

Analysis Date: 08/14/99

ELT#	FIELD CODE	TPH (mg/kg)	Sulfates (mg/kg)	
19197	Jar 3	<10	1358	
19198	Jar 4	<10	5560	

% INSTRUMENT ACCURACY	101	107
% EXTRACTION ACCURACY	106	•
BLANK	<10	<1

METHODS: EPA 418.1, SW846-9038

Kaladik Tumba

8-15-99 Date

No. St.	Environmental Lab of Texas,	Lab of Tex		ن	997	8 GJ V	287	A S	NX O	IIC. 12686 West Lib Last Oders, Taxe 19763 (215) 563-1360 FAX (215) 563-1713	19763 11713	9	Š I	3	200		CEATH-OF-CUSTODY RECORD AND ANALYES REQUEST	ARALI	- 2	5785		
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6/01 Aberdeen Avenue, Suite 9 4725 Riploy Avenue, State A Lubbock, Toxas 79424 HIII=378=1296 El Paso, Texas /9922 888 • 588 • 3443 806+704+1736 915+505+3443 FAX 915+545+4844

BIA E1 POSO, TEXAN / MSZZ BBB + SBB
ANALYTICAL RESULTS FOR SID RICHARDSON GASOLINE CO.

Attention: Randall Dunn 6105 Commerce Jal, NM 88Z52

May 4, 1999

Receiving Date: 04/24/99 Sample Type: Soil Project #: JAR042199 Project Loc: Lea County, NM

Sample Condition: I & C Sample Received by: VW

Project Name: J. Anthony Ranch

CHLORIDE FIELD CODE TA# (mg/kg) T123419 JAR Loc 1 Comp. 5.0 T123420 ✓ JAR Loc 2 Comp. <4.0 T123421 ✓ JAR Loc 3 Comp. 34 T123422 VJAR Loc 4 Comp. 270 T123423 JAR Loc 5 Comp. 38 T123424 JAR Loc 6 Comp. <4.0 JAR Loc 7 Comp. T123425 **<4.0** JAR Loc 8 Comp. T123426 <4.0 T123427 JAR Loc 9 Comp. 710 T123428 JAR Loc 10 Comp. <8.0 **ICV** 503 CCV 494 REPORTING LIMIT 2.0 RPD 0 110 % Extraction Accuracy % Instrument Accuracy 101 PREP DATE 04/30/99 04/30/99 ANALYSIS DATE

METHODS: EFA SM 4500 CI-B

CHEMIST: JS

CHLORIDE SPIKE: 2000 mg/kg CHLORIDE

CHLORIDE CV: 500 mg/L CHLORIDE

Director, Dr. Blair Leftwich

5-4-99

Date

6701 Abardoon Avenue, Suite 9 4725 Ripley Avenue, Suite A

111'aso, Texas 79922 888-588-3443 E-Mail lab@traceenalyara.com . 806+794+1298 915=505=3N43

FAX HIR - /94 - 1298 FAX 915+565+4944

Analytical and Quality Control Report

Randall Dunn Sid Richardson Gasoline Cu. Box 1226 Jal, NM 88252

Report Date:

4/27/9

Project Number:

JAR012199

Project Name: Project Location:

for analysis:

J. Anthony Rauch Loa County NM

Order ID Number: 99042406

Enclosed are the Analytical Results and Quality Control Data Reports for the following samples submitted to TraceAnalysis, Inc.

Sample Number	Sample Description	Matrix	Date Taken	Time Taken	Date Received
123409	JAR Loc 12 Comp	Soil	4/21/99	15:25	4/24/99
123410	JAR Loc 13 Comp	Soil	4/21/99	15:29	4/24/99
123411	JAR Loc 14 Comp	Soll	4/21/99	15:32	4/24/99
123412	JAR Loc 15 Comp	Soil	4/21/99	15:36	4/24/99
123413	JAR Bkgr t Comp	Soil	4/21/99	13:14	4/24/99
123414	JAR Bkgr 2 Comp	Soil	4/21/99	15:17	4/24/99
123415	JAR Bkgt 3 Comp	Soil	4/21/99	15:40	4/24/99
123416	JAR Bkřill Comp	Soil	4/21/99	9:15	4/24/99
123417	Jar Loc 20 Comp	Soil	4/21/99	14;25	4/24/99
123418	Jar Loc 21 Comp	\$oil	4/21/99	14:15	4/24/99
123419	JAR Loc 1 Comp	Soil	4/21/99	12:15	4/24/99
123420	JAR Loc 2 Comp	Soil	4/21/99	12:30	4/24/99
123421	JAR Loc 3 Comp	Soil	4/21/99	12:40	4/24/99
123422	JAR Luc 4 Comp	Şoil	4/21/99	14:45	4/24/99
123423	JAR Loc 5 Comp	Soil	4/21/99	13:02	4/24/99
123424	JAK Loc 6 Comp	Soil	4/21/99	13:42	4/24/99
123425	JAR Loc 7 Comp	Soil	4/21/99	13:55	4/24/99
123426	JAR Loc & Comp	Soil	4/21/99	14:12	4/24/99
123427	IAR Loc 9 Comp	Sail	4/21/99	14:45	4/24/99
123428	JAR Loc 10 Comp	Soil	4/21/99	15:05	4/24/99
123429	JAR Loc 11 Comp	Soil	4/21/99	15:15	4/24/99

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.

Report Date: 4/2	27/99			On	der ID No	nuber: 990	42406		-	Page	Number:	4 of 8
Sample Number: Description:	123416 JAR Bkfill	•				Analytical	Date	Dane		Prep	ąc	•
Param		Flag			Dilution	Method	Prepared	Analyzed	Analyst	Batch #	Bulch #	KU
TRPIC			<10.0	mg/kg	1.	E418.1	4/26/99	4/26/99	MF	PB00491	QC00587	1
Sample Number; Description:	123417 Jar Loc 20	Comp				Analytical	Data	Duiz		n		
Param		Flag	Result	Unile	Dilution	Method	Prepared	Analyzed	Analyst	i'rep ilaich #	QC Batch #	RD:
TRIPHC		****	1730	ти/Кд	I	E 4 8.1	4/26/99	4/26/99	MF	PB00491	Q(X)Q587	11
Sample Number: Description:	123418 Jar Loc 21	Comp		····	,	Analytical	Date	Date		8	ne:	
Paraui		Pag	Result	Units	Dilution	Method	Prepared	Analyzai	Analyst	Prep Butch #	QC Batch #	RO
TRPHC	·····		<10.0	mg/Kg	1	P 418,1	4/26/99	4/26/99	MF	PB00491	QC00587	T(
Sample Number: Description:	123419 JAR Loc I	Сотр			<u> </u>	a - decirel	.	<u> </u>				
Param		Flux	Hemilt	ijnits	noitaliCl	Analytical Method	Date Prepared	Dele Analyzed	Apulyst	Prep	QC: Batch #	RDI
TRPHC			<16.0	mg/Kg	1	E 418.1	4/26/99	4/25/99	MF	PINE 1491	QC00587	10
Sample Number: Description:	123420 JAR Loc 2	Comp										
l'aram		Fiag	Result	Units	Dilution	Analytical Method	Prepared	Date Analyzed	Analyst	Prep Beach#	ÇC Buch #	RDL
тарнс				mg/Kg	ī	E 418.1	4/26/99	4/26/99	MF	PB00491	QC00587	10
Sample Number: Description:	123421 JAR Loc 3	Соппр										
Panen		Mag	Resuit	Units	Dilution	Anniyiical Method	Date Prepared	Date Analyzed	Analyst	Prep Batch #	QC Basch if	RDI
ואיאכ				mg/Kg	1	E 418.1	4/26/99	4/26/99	Mr	14801491	QC00587	10
Sample Number: Description. Param 45-730	,123422 JAR Lue 4				معرا Dilucion	Analytical Method	Date	Date Analyzed	, ,	Prep	QC .	25)
TRPHC		Flug		mg/Kg	I	F. 418.1	4/26/99	4/26/99	Apalyst MF	PB00491	Butch # QC00587	RD).
Sample Number; Description:	123423 JAR Loc 5	•				Analytical	Date	Dute		Prop	QC ·	
Parani		Flag			Dilution	Method	Prepured	Analyzed	Analyst	Betch #	Batch #	RDI.
TRPHC			<nnn< td=""><td>mg/Kg</td><td>1</td><td>E 418.1</td><td>4/26/99</td><td>4/26/99</td><td>MF</td><td>PB00491</td><td>QCUUSK7</td><td>10</td></nnn<>	mg/Kg	1	E 418.1	4/26/99	4/26/99	MF	PB00491	QCUUSK7	10

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Report Date: 4/2	7/99		Ore	der ID Nu	imber: 990	42406			Page	Number:	2 0[
Sample Number: Description:	123424 JAR Lase 6 Comp	·			Analytical	عافلا	Date		Prép	QC	
Param TRPHC	Viag		Units mg/Ke	Dilution	Method E 41%, I	Prepared 4/26/99	Analyzed	Analyst MF	Bauch # PB00491	Batch #	KU
	·										
Sample Number: Description:	123425 JAR Loc 7 Comp				Analytical	Dalc	Dute		Pren	QC	
Param	Flag			Dilution	Method	Propured	Analyzed	Analysi	Hatch #	Barch #	RI
TRPHC		402	mg/Kg	1	E418.1	4/26/99	4/26/99	Mir	t*1500491	QC00588	
Sample Number: Description:	123426 JAR Loc 8 Comp				4		D				· \
Pacam	Flag	Result	Unite	Dilution	Analytical Method	Date Prepared	Violassery Sate	Analyst	Prep Buich #	UC:	RI
TRPIIC		186	mg/Kg	ì	E 418.1	4/26/99	4/26/99	MF	PB00491	ÇCU0588	1
Sample Number: Description:	123427 JAR Loc 9 Comp				Annhaina	Dete	l\at-		Desa		·
Person	Plag	Result	Units	Diluxion	Analytical Method	Date Prepared	Date Analyzed	Analyst	Prep Batch #	QC Batch #	RE
TRPHC		5540	mg/Kg	1	E 418.1	4/26/99	4/25/99	MI	PR00491	QC00588	1
Sample Number: Description:	123428 JAR Loc 10 Com	P		· .						475.01	
Peram	Fing	Result	Unita	Dilusion	Analytical Method	Date Prepared	Date Analyzai	Analyst	Prep Buch#	QC' Barch #	كنا
TRPHC		104	mg/Kg	1	E 418.1	4/26/99	4/26/99	MF	PB00491	QC00588	
Sample Number: Description:	123429 JAR Los 11 Com	?					_				
1'aram	Flag	Resul:	Units	Ditution	Analytical Method	Date Prepared	Date Analyzed	Analyst	Prep Basch #	QC Batch <i>ii</i>	RE
TRPHC	70' al 1788' - Pil al Pil al	<10.0	mg/Ky	1	£ 41%,1	4/26/99	4/2//94	MF	PINE 1491	QC00588	
			Qu		Control	-					
	C 1		lank cxult	Unice	Repo	rting mít	Date Analyzed	i	Prep Batch #	QC Batci	
Daram				FILLER	141		مساح وها		~ e(V)1	Perio	
Param TRPHC	Fleg		0.0	mg/Kg	; 1	0	4/26/99	P	B00491	QCO	586
		<]	0.0	mg/Kg		0	4/26/99 4/26/99		B00491 B00491	QC00	

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VIEW OF EXCAVATION



VIEW OF BACKFILLED AREA