

REPORTS

DATE: 2003



RECEIVED

April 7, 2003

APR 1 1 2003

ENVIRONMENTAL BUREAU

VIA FACSIMILE: (505) 393-0720

Mr. Paul R. Sheeley New Mexico Oil Conservation Division 1625 N. French Drive Hobbs, New Mexico 88240

Re: Soil Sample Results, Former M^cKinley Lease Production Facility, UL A, Section 30, Township 18 South, Range 38 East, Lea County, New Mexico

Dear Mr. Sheeley:

ChevronTexaco Exploration and Production Company (ChevronTexaco), as successor to Texaco Exploration and Production Inc. (Texaco), has retained Larson and Associates, Inc. (LA) to supervise remediation of soil at a former oilfield production facility (Site) once operated by Texaco on the McKinley Lease in Unit Letter A (NE/4 NE/4), Section 30, Township 18 South, Range 38 East, Lea County, New Mexico. Figure 1 presents a location and topographic map.

A remediation work plan was submitted to the New Mexico Oil Conservation Division (NMOCD) on January 28, 2002, and proposed to excavate soil at three locations to achieve the NMOCD Recommended Remediation Action Level (RRAL) of 100 milligrams per kilogram (mg/kg) total petroleum hydrocarbon (TPH). Following excavation of approximately 7,288 cubic yards of soil from the three locations (Hole #1, Hole #2 and Hole #3), a Final Remediation Report was submitted to the NMOCD on June 11, 2002. The NMOCD denied closure since a soil sample from the bottom of Hole #3 was above the NMOCD recommended remediation action level (RRAL) of 100 mg/kg. The NMOCD also requested that Texaco investigate an area between the excavations (Hole #2 and Hole #3) since a sample from BH-3 from 20 to 21 feet below ground surface (BGS) reported TPH at 82 mg/kg (below the RRAL).

Results of additional sampling of Hole #3, which showed that TPH was below the RRAL of 100 mg/kg, were presented to the NMOCD in a letter dated September 20, 2002. The letter also stated that Holes #1, #2 and #3 would be filled with clean soil, and a soil boring would be drilled between BH-3 and BH-4, to a depth of approximately 25 feet below ground surface (bgs). The NMOCD approved the work plan in a letter dated October 9, 2002, with two requests as follows:

- The proposed boring depth be extended from 25 feet bgs, to a depth of approximately 40 45 feet bgs,
- The OCD be notified 48 hours in advance of any sampling event.

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Appendix A provides copies of NMOCD correspondence.

Environmental Plus, Inc. (EPI) was retained to fill the excavations with clean soil, and began backfilling Hole #1 and Hole #2 on October 14, 2002. Backfilling was also stopped on that date, when NMOCD personnel visited the Site and observed additional soil staining at the north end of Hole #2. ChevronTexaco was required to investigate and remediate as necessary the soil staining north of Hole #2.

The NMOCD has established remediation action levels (RRAL) for benzene, total BTEX and TPH in soil ("Guidelines for Remediation of Leaks, Spills and Releases, August 13, 1993"). Remediation levels for benzene, total BTEX and TPH were calculated for the Site using the following NMOCD criteria:

Criteria	Result	Ranking Score
Depth-to-Groundwater	<50 feet	20
Wellhead Protection Area	No	0
Distance to Surface Water Body	>1000 Feet	0
		Total: 20

Based on the total ranking score above, the following RRALs were assigned to the Site based on NMOCD criteria:

Benzene	10 mg/kg
Total BTEX	50 mg/kg
TPH	100 mg/kg

Remediation Activities

On December 5, 2003, soil boring BH-13 was drilled between the two excavations (Hole #2 and Hole #3) and south of BH-3 and BH-4. The boring was drilled by Scarborough Drilling, Inc. of Lamesa, Texas, utilizing an air rotary drilling rig. Figure 2 shows the location of excavations (Holes #1, 2 and 3) and soil borings BH-1 through BH-13. BH-12 is located north of the Site and is not shown on Figure 2.

Soil samples were collected at ground surface, and approximately every five (5) feet bgs, thereafter, using a split-spoon sampler. The split-spoon sampler was thoroughly washed between sample events. Drill cuttings were placed on the ground adjacent to the boring. The soil samples were placed in clean glass sample jars, labeled, chilled in an ice chest, and delivered under chain-of-custody control to Environmental Lab of Texas I, Ltd., located in Odessa, Texas. A portion of each sample was also placed in a clean glass sample jar for headspace analysis. The headspace jars were filled approximately ³/₄ full,

Mr. Paul R. Sheeley April 7, 2003 Page 3

and a layer of aluminum foil was placed over the opening of the jar before replacing the cap. The headspace samples were allowed to reach ambient temperature before a RAE Instruments, Model 2000 photoionization detector (PID) was used to measure the concentration of organic vapors in the headspace of the sample jars. The PID probe was inserted into the headspace of the sample jars (through the aluminum foil), and the concentration of organic vapors was displayed by the instrument in parts per million (ppm). The NMOCD allows a PID measurement of less than 100 ppm to be used as a substitute for laboratory analysis of benzene and total benzene, toluene, ethylbenzene and xylenes (collectively referred to as BTEX). However, the PID measurement cannot be used as a substitute for total petroleum hydrocarbon (TPH) analysis by a laboratory. Samples from the surface and approximately every ten (10) feet bgs were analyzed for TPH by EPA method SW-846-8015 for gasoline range organics (GRO) and diesel range organics (DRO).

On October 15, 2002, EPI began to excavate soil from the north end of Hole #2. As remediation activities progressed to the north, soil samples were taken from the bottom and sides of the excavation. Soil samples were collected on December 30, 2002, January 2, 2003, February 7, 2003, February 13, 2003 and March 31, 2003, until laboratory analyses of soil samples from the sides and bottom of the excavation reported TPH values below 100 mg/kg. The final excavation, extending from the north boundary of Hole #2, measured approximately 130 x 70 feet, and was excavated to a maximum depth of 29 feet bgs. The impacted soil was transported to ChevronTexaco's centralized waste management facility (landfarm) located northwest of Jal, New Mexico. The final soil samples from the bottom and sides of the excavation reported TPH (DRO and GRO) levels below 100 mg/kg. The sample results are presented on Table 2. Figures 3, 4 and 5 present Site drawings showing the excavation boundary, sample locations and TPH concentrations from each sampling event.

Soil Boring Results

All samples collected from BH-13 exhibited a total TPH of less than ten (<10.0) mg/kg except the sample from approximately 20-21 feet bgs, which resulted in a DRO concentration of 190 mg/kg. Table 1 presents a summary of headspace and TPH analyses of soil samples from BH-13. Figure 2 shows the location of BH-13. Appendix B provides the boring log. Appendix C provides laboratory and chain-of-custody documentation. Appendix D presents photographs of the soil boring installation. The boring was filled with bentonite chips and hydrated with potable water upon completion of drilling.

Remediation Results

Only one sample (SS-9, North Bottom, 9') exhibited PID readings above 100 ppm (381.0 ppm) and was analyzed for BTEX using EPA method SW-846-8021B. Referring to Table 2, benzene was reported below the detection limit of 0.025 mg/kg and total BTEX was reported at 8.864 mg/kg. The results were below the RRAL for benzene (10 mg/kg)

Mr. Paul R. Sheeley April 7, 2003 Page 4

and total BTEX (50 mg/kg). All samples were analyzed for TPH by EPA method SW-846-8015 for gasoline range organics (GRO) and diesel range organics (DRO). The concentrations of TPH in the final samples from the bottom and sides of the excavation were below the RRAL for TPH of 100 mg/kg. Table 2 provides a summary of headspace and laboratory results following excavation. Figures 3, 4 and 5 present Site drawings showing the excavation boundary, sample locations and TPH concentrations from each sampling event. Appendix C provides laboratory and chain-of-custody documentation. Appendix D presents photographs of the excavation.

Approximately 8,156 cubic yards (yd^{3}) of impacted soil was transferred to ChevronTexaco's landfarm since October 31, 2002. Approximately 9,892 yd³ of clean soil was transported to the Site, and has been stockpiled. ChevronTexaco requests the NMOCD allow it to fill the excavations. The excavations will be filled with clean soil, and a final letter will be submitted to the NMOCD upon completion. Please call Mr. Scott Toner with ChevronTexaco at (915) 687-7318 or myself at (915) 687-0901 if you have questions.

Sincerely, Larson and Associates, Inc.

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Cindy K Crain Geologist

Encl.

cc: Scott Toner, ChevronTexaco William Olson, OCD Hydrologist



Table 1:Summary of Headspace and Laboratory Analysis of Soil Samples
Texaco Exploration and Production Inc., McKinley Lease
NE/4, NE/4, Section 30, Township 18 South, Range 38 East
Lea County, New Mexico

Borehole Number	Sample Date	Sample Depth (feet BGS)	PID (ppm)	GRO C6-C12 mg/kg	DRO >C12-C35 mg/kg	TPH (C6-C35) mg/kg
RRAL						100
BH-13	12/5/2002	0-1	1	<10.0	<10.0	<10.0
		10-11	1	<10.0	<10.0	<10.0
		20-21	6.1	<10.0	190.0	190.0
		30-31	5.5	<10.0	<10.0	<10.0
		50-51	3.1	<10.0	<10.0	<10.0

Notes: All analyses performed by Environmental Lab of Texas, Inc., Midland, Texas

- 1. BGS: Depth in feet below ground surface
- 2. PID: Photoionization detector
- 3. ppm: Parts per million
- 4. GRO: Gasoline-range organics
- 5. DRO: Diesel-range organics
- 6. TPH: Total petroleum hydrocarbons (Sum of GRO + DRO)
- 7. mg/kg Milligrams per kilogram
- 8. ---: No data available
- 9. <: Below method detection limit
- 10. RRAL: NMOCD Recommended Remediation

Summary of Headspace and Laboratory Analysis of Soil Samples Following Excavation Texaco Exploration and Production Inc., McKinley Lease NE/4, NE/4, Section 30, Township 18 South, Range 38 East Lea County, New Mexico

Table 2:

Chloride (mg/kg) 250 ł 1 1 ļ 1 1 1 Page 1 of 2 4,178.0 14,330.0 1,740.0 (C6-C35) 3,970.0 mg/kg 234.6 113.0 <10.0 <10.0 <10.0 146.0 <10.0 <10.0 199.0 900.0 <10.0 176.0 316.3 <10.0 <10.0 <10.0 <10.0 <10.0 HdL 49.3 100 >C12-C35 4,050.0 12,800.0 1,740.0 3,970.0 mg/kg <10.0 146.0 <10.0 <10.0 216.0 199.0 113.0 <10.0 900.0 <10.0 176.0 264.0 <10.0 <10.0 <10.0 <10.0 <10.0 DRO <10.0 49.3 1,530.0 C6-C12 mg/kg <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 128.0 <10.0 GRO <10.0 <10.0 52.3 <10.0 <10.0 <10.0 <10.0 <10.0 18.6 <100 <100 <10.0 <10.0 <100 <100 100 mg/kg BTEX Total 8.864 30 1 1 1 1 Benzene <0.025 mg/kg 2 I I I I 1 1 (mdd) 381.0 17.4 12.2 0.0 0.0 6.6 0.9 0.4 0.0 0.0 22.1 3.8 <u>0</u> 1.1 1.5 6.9 6.0 5.4 <u>0</u> 2.1 0.1 I Depth (feet Sample BGS) 30 യത 00 N N 0 0 ω 01/02/03 12/30/02 01/02/03 Sample 01/02/03 Date Location of Sample **Bottom Center** North Bottom North Bottom North Bottom Vorth Bottom South Wall North Wall West Wall West Wall West Wall West Wali South Wall East Wall East Wall East Wall East Wall East Wall West Wall West Wall East Wall Bottom Bottom Bottom RRAL Number Sample SS-16 SS-19 **SS-10** SS-12 **SS-13** SS-14 SS-15 SS-17 SS-18 SS-20 SS-21 SS-23 SS-1 SS-8 SS-9 SS-11 **SS-22** SS-3 SS-6 **SS-2** SS-4 SS-5 **SS-7**

Summary of Headspace and Laboratory Analysis of Soil Samples Following Excavation NE/4, NE/4, Section 30, Township 18 South, Range 38 East Texaco Exploration and Production Inc., McKinley Lease Lea County, New Mexico Table 2:

Chloride (mg/kg) <20.0 <20.0 88.6 59.1 **250** 44.3 324 103 295 59.1 73.8 88.6 118 177 Page 2 of 2 (C6-C35) mg/kg <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 430.0 <10.0 159.0 <10.0 <10.0 <10.0 85.1 HdT 100 >C12-C35 mg/kg <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 430.0 <10.0 159.0 <10.0 <10.0 <10.0 DRO <10.0 <10.0 85.1 C6-C12 mg/kg <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 GRO mg/kg BTEX Total 50 1 1 1 Benzene mg/kg 9 ļ 1 ł 1 1 1 1 1 1 (mdd) DID 1.5 1.3 5.7 5.7 16.3 0.3 3.8 2.0 4.4 ų 1.00 6.1 Depth (feet Sample BGS) 9.0 0 81828787878 œ Sample Date 02/07/03 02/07/03 02/13/03 02/07/03 02/07/03 02/07/03 02/07/03 02/07/03 02/07/03 02/07/03 03/31/03 02/07/03 02/07/03 02/13/03 02/13/03 Location of Sample **Northeast Side** North Bottom North Side Vorth Wall East Wall West Wall West Wall West Wall East Wall West Wal Bottom Bottom Bottom Bottom Bottom RRAI Sample Number SS-24 SS-26 SS-29 SS-30 SS-25 SS-27 SS-28 SS-31 SS-32 SS-33 SS-35 SS-36 SS-34 SS-37 SS-38

All analyses performed by Environmental Lab of Texas, Inc., Midland, Texas Notes:

Depth in feet below ground surface 1. BGS:

Photoionization detector

N

Parts per million ppm:

Gasoline-range organics GRO: က် 4

Diesel-range organics DRO: ഗ്

Total petroleum hydrocarbons (Sum of GRO + DRO) ΗdΤ . ف

Milligrams per kilogram 7. mg/kg:

No data available Ϊ യ് တ်

Below method detection limit v

NMOCD Recommended Remediation Action Level 10. RRAL:



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APPPENDIX A

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NMOCD CORRESPONDENCE



NEW MEXICO ENERGY, MINERALS and NATURAL RESOURCES DEPARTMENT

GARY E. JOHNSON Governor Betty Rivera Cabinet Secretary Lori Wrotenbery Director Oil Conservation Division

September 6, 2002

Mark Larson Larson & Associates, Inc. 507 North Marienfeld, Suite 202 Midland, TX 79701

Re: Closure Proposal Texaco McKinley Lease-(Jim Davis) Site Location: UL-A, Sec 30-T18S-R38E Dated: June 11, 2002, Supplement July 19, 2002

Dear Mr. Larson,

The New Mexico Oil Conservation Division (OCD) hereby denies your closure plan proposal referenced above. Samples from excavation hole #3 exceed OCD criteria of 100 ppm TPH.

Borehole #3 and #4 are located alone between excavations. #3 indicates TPH contamination, (Work Plan dated January 28, 2002). The lab sample for borehole #3 at 21 feet shows contamination. OCD requires Texaco to investigate in between excavation holes.

If you have any questions or need any assistance please feel free to contact me at (505) 393-6161 x113 or email: psheeeley@state.nm.us

Sincerely

Paul Sheeley-Environmental Engineer Cc: Roger Anderson - Environmental Bureau Chief Chris Williams - District I Supervisor William Olson - OCD Hydrologist Larry Johnson - Environmental Engineer



NEW MEXICO ENERGY, MINERALS and NATURAL RESOURCES DEPARTMENT

GARY E. JOHNSON Covernor Betty Rivera Cabinet Secretary Lori Wrotenbery Director Oil Conservation Division

October 9, 2002

Mark Larson Larson & Associates, Inc. 507 North Marienfeld, Suite 202 Midland, TX 79701

Re: Texaco McKinley Lease-(Jim Davis) Site Location: UL-A, Sec 30-T18S-R38E Dated: September 20, 2002

Dear Mr. Larson,

New Mexico Oil Conservation Division (OCD) received your modified work plan letter including the August 27, 2002 bottom hole sample analysis data for the site referenced above. The OCD hereby approves the plan and includes the following:

- 1. ChevronTexaco shall extend the proposed 25 foot boring to approximately 40-45 feet below ground surface, to investigate the vadose zone between the existing excavations at the site and demonstrate that contaminants have not reached the groundwater.
- 2. ChevronTexaco shall notify the OCD 48 hours in advance of any sampling event to allow OCD the option to split samples and witness activities.

Please be advised that OCD approval of this plan does not relieve ChevronTexaco of liability should their operations fail to adequately investigate and remediate contaminants that threaten ground water, surface water, human health or the environment. In addition, OCD approval does not relieve ChevronTexaco of responsibility for compliance with any other federal, state, or local laws and/or regulations.

If you have any questions or need assistance please write or call: (505) 393-6161, ext. 113, or e-mail: psheeeley@state.nm.us

Sincerely,

Paul Sheeley-Environmental Engineer Cc: Roger Anderson - Environmental Bureau Chief Chris Williams - District I Supervisor William Olson - OCD Hydrologist Larry Johnson - Environmental Engineer

APPENDIX B

BORING LOG

Client: Texaco E&P

Project: Davis Property (McKinley Lease)

Project No: 2-0100

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Location: SW/4, NE/4, Section 30, T18S, R38E, Lea Co., NM

Log of Borehole: BH-13

Geologist: Cindy K. Crain

Page: 1 of 1

	SI	JBSURFACE PROFILE	S	AMP	LE		
Depth	Symbol	Description	Number	Type	Recovery	PID Measurement (PPM) 2 4 6	Lab Analysis
0-		Ground Surface				1.0	0 - 1' bas
-		Sandy, Clayey Silt	1	ļ II.	<u> </u>	1 1	GRO: <10.0 ma/ka
		grained, very poorty sorted, medium density	.				DRO: <10.0 ma/kg
5-			2	┼┲┲	<u> </u>	1.3	Total TPH: <10.0 mg/kg
-		Silty Sand		┼┸┸		11	, order in the role maning
10-		5 YR 7/4 to 7/6, pink to reddish yellow quark	z			1.0	10 - 11' bas
		sand, very fine grained, poorly sorted, loose	. 3				GBO: <10.0 mg/kg
-		Calicba					
15-	┱┹┱┛	10 YR 8/2, very pale brown quartz sand, ver	y -	┼┲┲		0.8	Total TPH: <10.0 mg/kg
	┙╌┙	fine grained, very poorty sorted, indurated.	4	┼┸┹	<u> </u>		Total TPH. < 10.0 mg/kg
2							
20-			5				20 - 21 bgs
_	╶╌╌					1	GRO: <10.0 mg/kg
25 -	┝┽┰┿╼┥						DRO: 190 mg/kg
-							Total TPH: 190 mg/kg
		0///					
30 –		5 III Sand 7.5 YR 6/3 light brown quartz sand, very fil	6		1	5.5	30 - 31' bgs
_		grained, poorly sorted, moderately loose.			1	1 1	GRO: <10.0 mg/kg
35 -							DRO: <10.0 mg/kg
-	: ::::::::::::::::::::::::::::::::::::				ļ		Total TPH: <10.0 mg/kg
-							
40 -			7	† ∎∎		5.1	
-				┤┸┸	1	1 /	
- 45							
-						/	
-							
50-				111		3.1	50 - 51' bgs
-		End of Borehole at 51 ft		┼┛┛	+	1	GRO: <10.0 mg/kg
55-							DRO: <10.0 mg/kg
~-				1			Total TPH: <10.0 mg/kg
-			ļ				
60-						L	
Di	rilling M ate Dril	Method: Air Rotary Lars led: 12/5/02 507 Midla Midla (915)	on and A lorth Ma and, Texa	ssoci rienfe as 797	ates, Id St., 701	Inc. Che , Ste. 202 Dril	cked by: CKC led by: Scarborough Drilling, Inc.
H		s: 5)8" (515)	JUI-UJU	•			

ANALYTICAL REPORT

Prepared for:

CINDY CRAIN LARSON AND ASSOCIATES, INC. P.O. BOX 50685 MIDLAND, TX 79710

Project:Texaco/ McKinley Lease**PO#:**

Order#: G0205195

Report Date: 12/10/2002

<u>Certificates</u> US EPA Laboratory Code TX00158

LARSON AND ASSOCIATES, INC. P.O. BOX 50685 MIDLAND, TX 79710 915-687-0456 Order#:G0205195Project:2-0100Project Name:Texaco/ McKinley LeaseLocation:None Given

			Date / Time	Date / Time)	
Sample :	<u>Matrix:</u>		_Collected_	Received	Container	Preservative
BH-13 (0-1')	SOIL		12/5/02	12/6/02	4 oz glass	Ice
			10:25	16:50		
<u>b Testing:</u>	Rejected:	No	Ten	n p: 4.0 C		
8015M						
BH-13 (10-11')	SOIL		12/5/02	12/6/02	4 oz glass	Ice
			10:35	16:50		
<u>b Testing:</u>	Rejected:	No	Ten	np: 4.0 C		
8015M						
BH-13 (20-21')	SOIL		12/5/02	12/6/02	4 oz glass	Ice
			10:51	16:50		
<u>b Testing:</u>	Rejected:	No	Ten	np: 4.0 C		
8015M						
BH-13 (30-31')	SOIL		12/5/02	12/6/02	4 oz glass	Ice
			11:00	16:50		
<u>b Testing:</u>	Rejected:	No	Ten	ap: 4.0 C		
8015M	<u> </u>					
BH-13 (50-51')	SOIL		12/5/02	12/6/02	4 oz glass	Ice
			11:36	16:50		
<u>b Testing:</u>	Rejected:	No	Ten	n p: 4.0 C		
8015M						
	Sample : BH-13 (0-1') D Testing: 8015M BH-13 (10-11') D Testing: 8015M BH-13 (20-21') D Testing: 8015M BH-13 (20-21') D Testing: 8015M BH-13 (30-31') D Testing: 8015M BH-13 (50-51') D Testing: 8015M	Sample : Matrix: BH-13 (0-1') SOIL 5 Testing: Rejected: 8015M BH-13 (10-11') BH-13 (10-11') SOIL 5 Testing: Rejected: 8015M BH-13 (20-21') BH-13 (20-21') SOIL 5 Testing: Rejected: 8015M BH-13 (30-31') BH-13 (30-31') SOIL 5 Testing: Rejected: 8015M BH-13 (50-51') BH-13 (50-51') SOIL b Testing: Rejected: 8015M BH-13 (50-51')	Sample : BH-13 (0-1')Matrix: SOIL50 Testing: 8015MRejected: NoBH-13 (10-11')SOIL50 Testing: 8015MRejected: NoBH-13 (20-21')SOIL50 Testing: 8015MRejected: NoBH-13 (30-31')SOIL50 Testing: 8015MRejected: NoBH-13 (50-51')SOIL50 Testing: 8015MRejected: No8015MRejected: No8015MNo8015MRejected: No8015MSOIL50 Testing: 8015MRejected: No8015MSOIL	Sample : Matrix: Collected BH-13 (0-1') SOIL 12/5/02 50 Testing: Rejected: No Ten 8015M BH-13 (10-11') SOIL 12/5/02 50 Testing: Rejected: No Ten 8015M BH-13 (10-11') SOIL 12/5/02 50 Testing: Rejected: No Ten 8015M BH-13 (20-21') SOIL 12/5/02 50 Testing: Rejected: No Ten 8015M BH-13 (30-31') SOIL 12/5/02 50 Testing: Rejected: No Ten 8015M BH-13 (50-51') SOIL 12/5/02 BH-13 (50-51') SOIL 12/5/02 11:36 BT BH-13 (50-51') SOIL 12/5/02 11:36 Rejected:	Date / Time Date / Time Date / Time Sample : Matrix: Collected Received BH-13 (0-1') SOIL 12/5/02 12/6/02 b Testing: Rejected: No Temp: 4.0 C 8015M BH-13 (10-11') SOIL 12/5/02 12/6/02 b Testing: Rejected: No Temp: 4.0 C 8015M BH-13 (20-21') SOIL 12/5/02 12/6/02 b Testing: Rejected: No Temp: 4.0 C 8015M BH-13 (20-21') SOIL 12/5/02 12/6/02 b Testing: Rejected: No Temp: 4.0 C 8015M BH-13 (30-31') SOIL 12/5/02 12/6/02 b Testing: Rejected: No Temp: 4.0 C 8015M BH-13 (50-51') SOIL 12/5/02 12/6/02 b Testing: Rejected: No Temp: 4.0 C 8015M I I I I I <td>Sample : BH-13 (0-1) Matrix: SOIL Collected 12/5/02 Received 12/6/02 Container 65 Testing: BH-13 (10-11) SOIL 12/5/02 12/6/02 4 oz glass BH-13 (10-11) SOIL 12/5/02 12/6/02 4 oz glass BH-13 (10-11) SOIL 12/5/02 12/6/02 4 oz glass b Testing: BH-13 (20-21) Rejected: No Temp: 4.0 C 8015M BH-13 (20-21) SOIL 12/5/02 12/6/02 4 oz glass b Testing: BH-13 (20-21) SOIL 12/5/02 12/6/02 4 oz glass b Testing: BH-13 (30-31') SOIL 12/5/02 12/6/02 4 oz glass b Testing: BH-13 (50-51') SOIL 12/5/02 12/6/02 4 oz glass b Testing: BH-13 (50-51') SOIL 12/5/02 12/6/02 4 oz glass b Testing: BH-13 (50-51') SOIL 12/5/02 12/6/02 4 oz glass b Testing: BH-13 (50-51') SOIL 12/5/02 12/6/02 4 oz glass b Testing: BH-13 (50-51') SOIL 12/5/02</td>	Sample : BH-13 (0-1) Matrix: SOIL Collected 12/5/02 Received 12/6/02 Container 65 Testing: BH-13 (10-11) SOIL 12/5/02 12/6/02 4 oz glass BH-13 (10-11) SOIL 12/5/02 12/6/02 4 oz glass BH-13 (10-11) SOIL 12/5/02 12/6/02 4 oz glass b Testing: BH-13 (20-21) Rejected: No Temp: 4.0 C 8015M BH-13 (20-21) SOIL 12/5/02 12/6/02 4 oz glass b Testing: BH-13 (20-21) SOIL 12/5/02 12/6/02 4 oz glass b Testing: BH-13 (30-31') SOIL 12/5/02 12/6/02 4 oz glass b Testing: BH-13 (50-51') SOIL 12/5/02 12/6/02 4 oz glass b Testing: BH-13 (50-51') SOIL 12/5/02 12/6/02 4 oz glass b Testing: BH-13 (50-51') SOIL 12/5/02 12/6/02 4 oz glass b Testing: BH-13 (50-51') SOIL 12/5/02 12/6/02 4 oz glass b Testing: BH-13 (50-51') SOIL 12/5/02

CINDY CRAIN LARSON AND A P.O. BOX 50685 MIDLAND, TX	ASSOCIATES, INC. 79710			Order#: Project: Project Nan Location:	G02 2-01 ne: Tex Non	05195 100 aco/ McKinley I e Given	ease
Lab ID:	0205195-01						
Sample ID:	BH-13 (0-1')						
				8015M			
	Method	Date	Date	Sample	Dilutio	n	
	<u>Blank</u>	Prepared	Analyzed	Amount	<u>Factor</u>	Analyst	Method
			12/9/02	1	1	СК	8015M
		Parameter		Resu mg/k	lt g	RL	
		GRO, C6-C12		<10.	0	10.0	
		DRO, >C12-C35		<10.	0	10.0	
		TOTAL, C6-C35		<10.	0	10.0	
		Surroga	tes	% Recovered	QC Li	mits (%)	
		1-Chloroocta	ane	86%	70	130	
		1-Chloroocta	adecane	92%	70	130	
Lab ID: Sample ID:	0205195-03 BH-13 (10-11')						
				8015M			
	Method <u>Blank</u>	Date <u>Prepared</u>	Date <u>Analyzed</u>	Sample <u>Amount</u>	Dilutio <u>Factor</u>	n <u>Analyst</u>	Method
			12/9/02	1	1	СК	8015M
		Parameter		Resu mg/k	lt g	RL	
		GRO, C6-C12		<10.	0	10.0	
		DRO, >C12-C35		<10.	0	10.0	
		TOTAL, C6-C35		<10.	0	10.0	

Surrogates	% Recovered	QC Li	mits (%)
1-Chlorooctane	79%	70	130
1-Chlorooctadecane	81%	70	130

CINDY CRAIN LARSON AND A P.O. BOX 50685 MIDLAND, TX	ASSOCIATES, INC. 79710			C P P L	Order#: Project: Project Name Location:	G02 2-01 e: Tex Non	05195 00 aco/ McKinley I e Given	Lease
Lab ID: Sample ID:	0205195-05 BH-13 (20-21')							
				8015	M			
	Method	Date	Date	S	ample	Dilutio	n	
	Blank	Prepared	Analyzed	<u>A</u>	<u>mount</u>	<u>Factor</u>	<u>Analyst</u>	Method
			12/9/02		1	1	СК	8015M
		Parameter			Result mg/kg	t	RL	
		GRO, C6-C12			<10.0		10.0	
		DRO, >C12-C35			190		10.0	
		TOTAL, C6-C35			190		10.0	
		Surroga	tes	<u>%</u>	Recovered	QC Li	nits (%)	
		1-Chlorooct	ane		89%	70	130	
					10170	70	130	
Lab ID:	0205195-06							
Sample ID:	BH-13 (30-31')							
-				8015	M			
	Method	Date	Date	S	ample	Dilutio	n	
	Blank	Prepared	Analyzed	<u>A</u>	mount	Factor	<u>Analyst</u>	Method
			12/9/02		1	1	СК	8015M
		Parameter			Result mg/kg	t	RL	
		GRO, C6-C12			<10.0		10.0	
		DRO, >C12-C35			<10.0		10.0	
		TOTAL, C6-C35		·	<10.0		10.0	

Surrogates	% Recovered	QC Li	mits (%)
1-Chlorooctane	87%	70	130
1-Chlorooctadecane	93%	70	130

DL = Diluted out N/A = Not Applicable RL = Reporting Limit

Page 2 of 3

ENVIRONMENTAL LAB OF TEXAS I, LTD.

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CINDY CRAIN LARSON AND A P.O. BOX 50685 MIDLAND, TX	ASSOCIATES, INC. 79710			Order#: Project: Project Name Location:	G02 2-01 : Tex: Non	05195 00 aco/ McKinley e Given	Lease
Lab ID: Sample ID:	0205195-08 BH-13 (50-51')						
				8015M			
	Method <u>Blank</u>	Date <u>Prepared</u>	Date <u>Analyzed</u> 12/9/02	Sample <u>Amount</u> 1	Dilutio <u>Factor</u> 1	n <u>Analyst</u> CK	<u>Method</u> 8015M
		Parameter		Result mg/kg		RL	
		GRO, C6-C12		<10.0		10.0	
		DRO, >C12-C35		<10.0		10.0	
		TOTAL, C6-C35		<10.0		10.0	
		Surroga	tes	% Recovered	QC Li	nits (%)	
		1-Chlorooct	ane	84%	70	130	
		1-Chlorooct	adecane	90%	70	130	

12-10-02 Approval: Jeans McMuny Raland K. Thttle, Lab Director, QA Officer Date

Raland K. Thftle, Lab Director, QA Officer U Celey D. Keene, Org. Tech. Director Jeanne McMurrey, Inorg. Tech. Director Sandra Biezugbe, Lab Tech. Sara Molina, Lab Tech.

DL = Diluted out N/A = Not Applicable RL = Reporting Limit

ENVIRONMENTAL LAB OF TEXAS QUALITY CONTROL REPORT

8015M

Order#: G0205195

BLANK	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
TOTAL, C6-C35-mg/kg		0004010-02			<10.0		
MS	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
TOTAL, C6-C35-mg/kg		0205195-01	0	952	956	100.4%	
MSD	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
TOTAL, C6-C35-mg/kg		0205195-01	0	952	1005	105.6%	5.%
SRM	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
TOTAL, C6-C35-mg/kg		0004010-05		1000	900	90.%	

CLIENT N	AME:				SITE MANAGER:			A	RAME	TERS	/METH	do	IUMBER	Ĕ	HAIN-	OF-CUSTOD	Y RECORD
	exaco				Lindy Crain												
PROJECT	NO.: 2- 010	õ			PROJECT NAME: McKinley Le	25e	NTAINERS	POIN S				······				& 115. Fax: 915. Mate Consultants 915.	-687-0456 -687-0901
PAGE	/ OF	~		LAB. P	# 0		OF CO	108						·	507 N. Marie	infeld, Ste. 202 • Midl	land, TX 79701
3140	JWIL	ATIEN	nos	OTHER	SAMPLE IDENTIFICATION		NUMBER C	HdL							Lab. I.D. Number Ab Use only	REMAR I.E., FIUTERED, UNP PRESERVED, UND GRAB COMP	<s VFILTERED, RESERVED, OSITE)</s
13/5/02	1025		7		BH-13 (0-1')		1	7						ö	205195-01		
1	1028		7		" 75-6"		1								i 02		
11	1035		>		" (10-11-)		1	7							50 50		
"	1042		7		" (15.16'		-								Ŭ,		
	1051		7		" (20.21	(1	7							05		
"	0011		7		" (30-31"	(1	7							0,0		
-	0211		7		" (++0 - +1/')		/								60		
11	1136		/	_	" (50-51')		1	7							1 00		
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SAMPLE	DABY: (Sig	Manue	د.		DATE: <u>4/5/84</u> TIME: <u>1/4/0</u>	Relinguisher	0 BY: (Signatu	le)			DATE			VED BY: (Signa	iture)	DATE: TIME:
RELINIOL	JISHIPD BY		ature)		DATE: 42/6-10-2	RECEIVED BY:	(Signa	ture)				DATE		SAM	IE SHIPPED BY	/: (Circle)	
1	what	an	. 2		TIME: 1650							TIME		FEDE		BUS AIRBILL #	
COMMI	INTS:									TURNA	ROUND	TIME	NEEDED	NAN NAN	DELIVERED	UPS OTHER	
													,		TE - RECEIVIN	IG LAB IG I AR /TO BE DETI IDNET	OT C
RECEIVI	NG LABOR	SATORY	<u> ELC</u>	1-2	E	RE	CEIVE) BY: (S	ignatu	e)						RECEIPT)	2
	Coless				STATE: 7 ZIP: PHONE:	797650	AN A	202	202		202	2		ž Tog		L MANAGER COORDINATOR	
SAMPLE C	N NOILIGNO	VHEN REC	EIVED:		11 ت د		PC CO	NTACT	PERSO	Ż				SAMI		1:6	
					קורט			1							Ś		

ANALYTICAL REPORT

Prepared for:

CINDY CRAIN LARSON AND ASSOCIATES, INC. P.O. BOX 50685 MIDLAND, TX 79710

Project:Texaco / McKinley Lease**PO#:**

Order#: G0205350

Report Date: 12/31/2002

<u>Certificates</u> US EPA Laboratory Code TX00158

LARSON AND ASSOCIATES, INC. P.O. BOX 50685 MIDLAND, TX 79710 915-687-0456 Order#:G0205350Project:0-0100Project Name:Texaco / McKinley LeaseLocation:None Given

Lab ID:	Sample :	<u>Matrix:</u>	Date / Time <u>Collected</u>	Date / Time <u>Received</u>	<u>Container</u>	Preservative
0205350-01	SS-1 (Hole D) 29'	SOIL	12/30/02 10:50	12/30/02 15:15	4 oz Glass	Ice
<u>Lal</u>	<u>b Testing:</u> 8015M	Rejected: No	Tem	p: 5 C		

CINDY CRAIN	Order#:	G0205350
LARSON AND ASSOCIATES, INC.	Project:	0-0100
P.O. BOX 50685	Project Name:	Texaco / McKinley Lease
MIDLAND, TX 79710	Location:	None Given

Lab ID: Sample ID: 0205350-01 SS-1 (Hole D) 29'

> 8015M Method Date Date Sample Dilution Prepared Analyzed <u>Factor</u> Blank Amount <u>Analyst</u> Method 12/30/02 1 1 СК 8015M Result Parameter RL mg/kg

GRO, C6-C12	<10.0	10.0
DRO, >C12-C35	<10.0	10.0
TOTAL, C6-C35	<10.0	10.0

Surrogates	% Recovered	QC Limits (%)					
1-Chlorooctane	70%	70	130				
1-Chlorooctadecane	73%	70	130				

31-02 Approval: 0 anc Date

Raland K. Tuttle, Lab Director, QA Officer Celey D. Keene, Org. Tech. Director Jeanne McMurrey, Inorg. Tech. Director Sandra Biezugbe, Lab Tech. Sara Molina, Lab Tech.

DL = Diluted out N/A = Not Applicable RL = Reporting Limit

Page 1 of 1

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ENVIRONMENTAL LAB OF TEXAS QUALITY CONTROL REPORT

8015M

Order#: G0205350

BLANK SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
TOTAL, C6-C35-mg/kg	0004217-02			<10.0		
CONTROL SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
TOTAL, C6-C35-mg/kg	0004217-03		952	909	95.5%	
CONTROL DUP	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
TOTAL, C6-C35-mg/kg	0004217-04	·····	952	823	86.4%	9.9%
SRM SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
TOTAL, C6-C35-mg/kg	0004217-05		1000	809	80.9%	

-CUSTODY RECORD	DC. Fax: 915-687-0456 p15-687-0901	ste. 202 • Midland, TX 79701	REMARKS (I.E., FILTERED, UNFILTERED, PRESERVED, UNPRESERVED, GRAB COMPOSITE)	1sh							DATE: TIME:		US AIRBILL #:	PS OTHER: TO RE PETI IDNED TO	T) 56R	NATOR		22/32/22 5:00.
CHAIN-OF-	A arson & Sociates, I Environmental Consult	507 N. Marienfeld, 5	LAB. I.D. NUMBER (LAB USE ONLY)	<i>.</i>							RECEIVED BY: (Signature)	SAMPLE SHIPPED BY: (Circle	FEDEX	WHITE - RECEIVING LAB VIIITE - RECEIVING LAB	LA AFTER RECEIP	GOLD - QA/QC COORDI	SAMPLE TYPE:	Anthon 91 vor
ETERS/METHOD NUMBER											DATE:	DATE:	TIME:	TURNAROUND TIME NEEDED	rei) 1, 00	UNE: 15/5-	ON:	
PARAM	PLS M	25 DF CC	HLL NOWBER	2/0/1							INQUISHED BY: (Signature)	CEIVED BY: (Signature)		rba) results (556-	RECEIVED BY: (Signal	DATE DATE	LA CONTACT PERS	
SITE MANAGER:	PROJECT NÁME. MCKINTRY L	B. PO #	Sample Identification	55-1 (Hale D)							DATE: 42/29/03 REI TIME: 1100	DATE 2/30/02 RE	TIME: 15/3	all C. Crain w/ ve	13-	STATE: ZIP: PHONE: ZIP:	Chr. GLASS	•
ent name: _/?kac0	OJECT NO.: D DIDD	GE / OF / LA	105 21105 211011 31111	2062 1050 V						,	MALED BY: (Signature)	LINDUISHED BY: BIGDATUTE	andy Lace	Marchen Please L.	CEIVING LABORATORY: EL	ntact:	MPLE CONDITION WHEN RECEIVED:	

ANALYTICAL REPORT

Prepared for:

CINDY CRAIN LARSON AND ASSOCIATES, INC. P.O. BOX 50685 MIDLAND, TX 79710

Project:Texaco/ McKinley LeasePO#:G0305383

Report Date: 01/07/2003

<u>Certificates</u> US EPA Laboratory Code TX00158

LARSON AND ASSOCIATES, INC. P.O. BOX 50685 MIDLAND, TX 79710 915-687-0456 Order#:G0305383Project:0-0100Project Name:Texaco/ McKinley LeaseLocation:None Given

				Date / Time	J	Date / Time		
<u>Lab ID:</u>	Sample :	<u>Matrix:</u>		Collected	-	Received	Container	Preservative
0305383-01	SS-2 (8')	SOIL		1/2/03		1/3/03	4 oz glass	Ice
	I (II)	Data da da	No	10:40		8:25		
La	<u>b Testing:</u>	Rejecteu:	INU	10	emp:	-1.5 C		
	8015M							
0305383-02	SS-3 (9')	SOIL		1/2/03		1/3/03	4 oz glass	Ice
				10:42		8:25		
<u>La</u>	<u>b Testing:</u>	Rejected:	No	Т	emp:	-1.5 C		
	8015M							
0305383-03	SS-4 (8')	SOIL		1/2/03		1/3/03	4 oz glass	Ice
0303303-03				10:44		8:25	U	
La	<u>b Testing:</u>	Rejected:	No	Т	emp:	-1.5 C		
	8015M	_						
0305383-04	SS-5 (8')	SOIL		1/2/03		1/3/03	4 oz glass	Ice
0303303-04				10:57		8:25		
La	<u>b Testing:</u>	Rejected:	No	T	emp:	-1.5 C		
	8015M							
0305383-05	SS-6 (7')	SOIL		1/2/03		1/3/03	4 oz glass	Ice
				10:59		8:25		
La	<u>b Testing:</u>	Rejected:	No	T	emp:	-1.5 C		
	8015M							
0305383-06	SS-7 (7')	SOIL		1/2/03		1/3/03	4 oz glass	Ice
				11:02		8:25		
<u>La</u>	<u>b Testing:</u>	Rejected:	No	Т	emp:	-1.5 C		
	8015M							
0305383-07	SS-8 (9')	SOIL		1/2/03		1/3/03	4 oz glass	Ice
				11:05		8:25		
La	<u>b Testing:</u>	Rejected:	No	T	emp:	-1.5 C		
	8015M							
0305383-08	SS-9 (9')	SOIL		1/2/03		1/3/03	4 oz glass	Ice
· · · · · · · · ·				11:07		8:25		
La	b Testing:	Rejected:	No	Т	emp:	-1.5 C		
	8015M							
	8021B/5030 BTEX							

LARSON AND ASSOCIATES, INC. P.O. BOX 50685 MIDLAND, TX 79710 915-687-0456 Order#:G0305383Project:0-0100Project Name:Texaco/ McKinley LeaseLocation:None Given

		Date / Time	Date / Time		
Sample :	<u>Matrix:</u>	Collected	Received	<u>Container</u>	Preservative
SS-10 (9')	SOIL	1/2/03	1/3/03	4 oz glass	Ice
		11:10	8:25		
<u>b Testing:</u>	Rejected: 1	No T	emp: -1.5 C		
8015M					
SS-11 (16')	SOIL	1/2/03	1/3/03	4 oz glass	Ice
		11:30	8:25		
<u>b Testing:</u>	Rejected: 1	NO T	emp: -1.5 C		
8015M					
SS-12 (17')	SOIL	1/2/03	1/3/03	4 oz glass	Ice
		11:35	8:25		
<u>b Testing:</u>	Rejected: 1	No T	emp: -1.5 C		
8015M			·		
SS-13 (16')	SOIL	1/2/03	1/3/03	4 oz glass	Ice
		11:38	8:25		
<u>b Testing:</u>	Rejected: 1	No T	emp: -1.5 C		
8015M					
SS-14 (10')	SOIL	1/2/03	1/3/03	4 oz glass	Ice
		11:40	8:25		
<u>b Testing:</u>	Rejected: 1	No T	emp: -1.5 C		
8015M			· · · · · · · · · · · · · · · · · · ·		
SS-15 (19')	SOIL	1/2/03	1/3/03	4 oz glass	Ice
		11:42	8:25		
<u>b Testing:</u>	Rejected: 1	No T	emp: -1.5 C		
8015M					
SS-16 (27')	SOIL	1/2/03	1/3/03	4 oz glass	Ice
		11:45	8:25	-	
<u>b Testing:</u>	Rejected: 1	No T	emp: -1.5 C		
8015M	· · · · · · · · · · · · · · · · · · ·				
SS-17 (29')	SOIL	1/2/03	1/3/03	4 oz glass	Ice
. ,		12:40	8:25	-	
<u>b Testing:</u>	Rejected: 1	No T	emp: -1.5 C		
8015M					
	<u>Sample :</u> SS-10 (9') 5 Testing: 8015M SS-11 (16') 5 Testing: 8015M SS-12 (17') 5 Testing: 8015M SS-13 (16') 5 Testing: 8015M SS-14 (10') 5 Testing: 8015M SS-15 (19') 5 Testing: 8015M SS-16 (27') 5 Testing: 8015M SS-16 (27') 5 Testing: 8015M SS-17 (29') 5 Testing: 8015M	Sample : Matrix: SS-10 (9') SOIL b Testing: Rejected: 1 8015M SOIL SS-11 (16') SOIL b Testing: Rejected: 1 8015M SOIL b Testing: Rejected: 1 8015M SOIL 1 b Testing: Rejected: 1 8015M SS-15 (19') SOIL b Testing: Rejected: 1 8015M SS-16 (27') SOIL b Testing: Rejected: 1 8015M SS-17 (29') SOIL b Testing: Rejected: 1	Sample : Matrix: Collected SS-10 (9') SOIL 1/2/03 11:10 b Testing: Rejected: No T 8015M SOIL 1/2/03 11:30 11:10 b Testing: Rejected: No T 8015M SOIL 1/2/03 11:30 11:30 b Testing: Rejected: No T 8015M SOIL 1/2/03 11:35 11:35 b Testing: Rejected: No T 8015M SOIL 1/2/03 11:35 11:38 b Testing: Rejected: No T 8015M SOIL 1/2/03 11:38 11:38 b Testing: Rejected: No T 8015M SOIL 1/2/03 11:40 11:40 b Testing: Rejected: No T 8015M SOIL 1/2/03 11:42 11:42 b Testing: Rejected: No T 8015M SOIL 1/2/03 11:45 11:45	Sample : Matrix: Collected Received SS-10 (9) SOIL 1/2/03 1/3/03 SS-11 (16) SOIL 1/2/03 1/3/03 SS-11 (16) SOIL 1/2/03 1/3/03 SS-12 (17) SOIL 1/2/03 1/3/03 SS-12 (17) SOIL 1/2/03 1/3/03 SS-13 (16) SOIL 1/2/03 1/3/03 SS-13 (16) SOIL 1/2/03 1/3/03 SS-14 (10') SOIL 1/2/03 1/3/03 SS-14 (10') SOIL 1/2/03 1/3/03 SS-15 (19') SOIL 1/2/03 1/3/03 SS-15 (19') SOIL 1/2/03 1/3/03 SS-16 (27') SOIL 1/2/03 1/3/03 SS-16 (27') SOIL 1/2/03 1/3/03 SS-16 (27') <	Sample : Matrix: Collected Received Container SS-10 (9') SOIL 1/2/03 1/3/03 4 oz glass 57 Testing: Rejected: No Temp: -1.5 C 8015M 11:10 8:25 4 oz glass 57 Testing: Rejected: No Temp: -1.5 C 8015M 11:20 8:25 4 oz glass -1.5 C 8015M 11:30 8:25 -1.5 C -1.5 C 8015M 11:35 8:25 -1.5 C -1.5 C 8015M 11:35 8:25 -1.5 C -1.5 C 8015M 11:35 8:25 -1.5 C -1.5 C 8015M 11:38 8:25 -1.5 C -1.5 C 8015M SS-14 (10') SOIL 1/2/03 1/3/03 4 oz glass 5. Testing: Rejected: No Temp: -1.5 C -1.5 C 8015M 11:40 8:25 -1.5 C -1.5 C -1.5 C 8015M <t< td=""></t<>

LARSON AND ASSOCIATES, INC. P.O. BOX 50685 MIDLAND, TX 79710 915-687-0456 Order#:G0305383Project:0-0100Project Name:Texaco/ McKinley LeaseLocation:None Given

				Date / Time	e l	Date / Time		
<u>Lab ID:</u>	Sample :	Matrix:		Collected		Received	Container	Preservative
0305383-17	SS-18 (29')	ŞOIL		1/2/03		1/3/03	4 oz glass	Ice
				12:45		8:25		
La	<u>b Testing:</u>	Rejected:	No	Т	'emp:	-1.5 C		
	8015M							
0305383-18	SS-19 (20')	SOIL		1/2/03		1/3/03	4 oz glass	Ice
				12:15		8:25		
<u>La</u>	<u>b Testing:</u>	Rejected:	No	Т	emp:	-1.5 C		
	8015M							
0305383-19	SS-20 (26')	SOIL		1/2/03		1/3/03	4 oz glass	Ice
				12:20		8:25		
<u>La</u>	b Testing:	Rejected:	No	Т	emp:	-1.5 C		
l	8015M						······	
0305383-20	SS-21 (15')	SOIL		1/2/03		1/3/03	4 oz glass	Ice
				12:00		8:25		
<u>La</u>	<u>b Testing:</u>	Rejected:	No	Т	emp:	-1.5 C		
	8015M							
0305383-21	SS-22 (27')	SOIL		1/2/03		1/3/03	4 oz glass	Ice
				12:10		8:25		
<u>La</u>	<u>b Testing:</u>	Rejected:	No	т	emp:	-1.5 C		
	8015M							
0305383-22	SS-23 (10')	SOIL		1/2/03		1/3/03	4 oz glass	Ice
				13:15		8:25		
<u>La</u>	<u>b Testing:</u>	Rejected:	No	Т	emp:	-1.5 C		
_	8015M							
····								
CINDY CRAIN LARSON AND A P.O. BOX 50685 MIDLAND, TX	ASSOCIATES, INC. 79710			Order#: Project: Project Name Location:	G03 0-01 e: Texa Non	05383 00 1co/ McKinley I e Given	ease	
--	---------------------------	---------------	--------------------	--	-------------------------------	---	------------------------	
Lab ID:	0305383-01							
Sample ID:	SS-2 (8')							
				8015M				
	Method	Date	Date	Sample	Dilution	1		
	<u>Blank</u>	Prepared	Analyzed 1/4/03	<u>Amount</u> 1	Factor 1	<u>Anaiyst</u> RKT	<u>Method</u> 8015M	
			1, 0, 01	-	•		0010111	
		Parameter		Resul mg/kg	t	RL		
		GRO, C6-C12		<10.0	· · · ·	10.0		
		DRO, >C12-C35		146		10.0		
		TOTAL, C6-C35	<u> </u>	146		10.0		
		Surrogat	tes	% Recovered	QC Lin	nits (%)		
		1-Chloroocta	ine	98%	70	130		
		1-Chloroocta	decane	98%	70	130		
Lab ID:	0305383-02							
Sample ID:	SS-3 (9 [°])			001516				
	Method	Date	Date	OUI JIVI Samule	Dilution			
	Blank	Prepared	Analyzed	Amount	Factor	<u>Analyst</u>	Method	
			1/4/03	1	1	RKT	8015M	
		ſ 			I			
		Parameter	-	Resul mg/kg	t	RL		
		GRO, C6-C12		<10.0		10.0		
		DRO, >C12-C35		<10.0		10.0		
		101AL, C6-C35		<10.0		10.0		

Surrogates	% Recovered	QC Li	mits (%)
1-Chlorooctane	92%	70	130
1-Chlorooctadecane	91%	70	130

DL = Diluted out N/A = Not Applicable RL = Reporting Limit

12600 West I-20 East, Odessa, TX 79765 Ph: 915-563-1800

CINDY CRAIN LARSON AND A P.O. BOX 50685 MIDLAND, TX	ASSOCIATES, INC. 79710			Order#: Project: Project Nam Location:	G0: 0-0 e: Tey No:	305383 100 kaco/ McKinley I ne Given	Lease
Lab ID:	0305383-03						
Sample ID:	SS-4 (8')						
				8015M			
	Method	Date	Date	Sample	Dilutio	on	
	Blank	Prepared	Analyzed	Amount	<u>Facto</u>	r <u>Analyst</u>	Method
			1/4/03	1	1	RKT	8015M
		Parameter		Resu mg/kg	t g	RL	
		GRO, C6-C12		<10.0)	10.0	
		DRO, >C12-C35		<10.0)	10.0	
		TOTAL, C6-C35		<10.0)	10.0	
		Surroga	tes	% Recovered	QC Li	imits (%)	
		1-Chlorooct	ane	87%	70	130	
		1-Chlorooct	adecane	85%	70	130	
Lab ID: Sample ID:	0305383-04 SS-5 (8')			8015M			
	Method	Date	Date	Sample	Dilutio	Dm	
	Blank	Prepared	Analyzed	Amount	Facto	r <u>Analyst</u>	Method
			1/4/03	1	1	RKT	8015M
		Parameter		Resu mg/kg	lt g	RL	
		GRO, C6-C12		18.6		10.0	
		DRO, >C12-C35		216		10.0	
		TOTAL, C6-C35		235		10.0	

Surrogates	% Recovered	QC Limits (%)		
1-Chlorooctane	96%	70	130	
1-Chlorooctadecane	95%	70	130	

DL = Diluted out N/A = Not Applicable RL = Reporting Limit

CINDY CRAIN LARSON AND ASS P.O. BOX 50685 MIDLAND, TX 79	SOCIATES, INC. 9710			Order#: Project: Project Nan Location:	G0305 0-0100 1e: Texac None	G0305383 0-0100 Texaco/ McKinley Lease None Given	
Lab ID:	0305383-05						
Sample ID:	SS-6 (7')						
				8015M			
	Method	Date	Date	Sample	Dilution		
	Blank	Prepared	<u>Analyzed</u> 1/4/03	<u>Amount</u> 1	Factor 1	<u>Analyst</u> RKT	Method 8015M
				•	•	MILI	00151/1
		Parameter		Resu mg/k	lt g	RL	
		GRO, C6-C12		<10.	0	10.0	
		DRO, >C12-C35		199		10.0	
		TOTAL, C6-C35		199		10.0	
		Surrogat	es	% Recovered	QC Limi	ts (%)	
		1-Chloroocta	ne	75%	70	130	
Lab ID: Sample ID:	0305383-06 SS-7 (7')	L <u></u>			<u></u>		
				8015M			
	Method	Date	Date	Sample	Dilution	A	
	Blank	rrepared	<u>Analyzed</u> 1/4/03	<u>Amount</u> 1	1	<u>Anarysi</u> RKT	8015M
		Parameter		Resu mg/k	lt g	RL	
		GRO, C6-C12		<10.	0	10.0	
•		DRO, >C12-C35		113		10.0	
		TOTAL C6 C25		113		10.0	

97%

97%

70

70

130

130

DL = Diluted out N/A = Not Applicable RL = Reporting Limit

ENVIRONMENTAL LAB OF TEXAS I, LTD.

1-Chlorooctane

1-Chlorooctadecane

12600 West I-20 East, Odessa, TX 79765 Ph: 915-563-1800

CINDY CRAIN LARSON AND ASSOCIATES, INC. P.O. BOX 50685 MIDLAND, TX 79710				Order#: Project: Project Name Location:	G03 0-01 : Texa Non	G0305383 0-0100 Texaco/ McKinley Lease None Given	
Lab ID: 0	305383-07						
Sample ID: S	SS-8 (9')						
				8015M			
	Method	Date	Date	Sample	Dilution	1 	
	<u>Blank</u>	Prepared	Analyzed	Amount 1	Factor	<u>Analyst</u> DVT	Method
			1/4/05	I	3	KKI	0015WI
		Parameter		Result mg/kg		RL	
		GRO, C6-C12		128		50.0	
		DRO, >C12-C35		4050		50.0	
		TOTAL, C6-C35		4178		50.0	
		Surrogat	es	% Recovered	QC Lin	nits (%)	
		1-Chloroocta	ne	20%	70	130	
		1-Chloroocta	decane	21%	70	130	
Lab ID: 0 Sample ID: 5)305383-08 5S-9 (9')			8015M			
	Method	Date	Date	Sample	Dilutior		
	<u>Blank</u>	Prepared	Analyzed	Amount	Factor	<u>Analyst</u>	Method
			1/4/03	1	10	RKT	8015M
		Parameter		Result mg/kg		RL	
		GRO, C6-C12		1530		100	
		DRO > C12 - C35		12800		100	
		510, 612 655					

Surrogates	% Recovered	QC Li	mits (%)
1-Chlorooctane	20%	70	130
1-Chlorooctadecane	12%	70	130

DL = Diluted out N/A = Not Applicable RL = Reporting Limit

ENVIRONMENTAL LAB OF TEXAS I, LTD.

CINDY CRAIN	Order#:	G0305383
LARSON AND ASSOCIATES, INC.	Project:	0-0100
P.O. BOX 50685	Project Name:	Texaco/ McKinley Lease
MIDLAND, TX 79710	Location:	None Given

Lab ID: Sample ID: 0305383-08 SS-9 (9')

		<i>8021E</i>	8/5030 BTE2	K		
Method <u>Blank</u> 0004249-02	Date <u>Prepared</u>	Date <u>Analyzed</u> 1/3/02	Sample <u>Amount</u> 1	Dilution <u>Factor</u> 100	<u>Analyst</u> RKT	<u>Method</u> 8021B
	Parameter		Resu mg/k	ilt g	RL	
B	Benzene		<0.02	25	0.100	
Т	oluene		0.19	5	0.100	
Ē	Ethylbenzene		1.24	F	0.100	
p	/m-Xylene		6.50)	0.100	
0	-Xylene		0.92	9	0.100	

Surrogates	% Recovered	QC Li	mits (%)
aaa-Toluene	101%	80	120
Bromofluorobenzene	105%	80	120

Lab ID: Sample ID: 0305383-09 SS-10 (9')

8015M Method Date Sample Date Dilution Blank Prepared Analyzed Amount Factor Method <u>Analyst</u> 1/4/03 1 10 RKT 8015M

Parameter	Result mg/kg	RL
GRO, C6-C12	< 100	100
DRO, >C12-C35	1740	100
TOTAL, C6-C35	1740	100

Surrogates	% Recovered	QC Limits (%)		
1-Chlorooctane	11%	70	130	
1-Chlorooctadecane	12%	70	130	

CINDY CRAIN LARSON AND A P.O. BOX 50685 MIDLAND, TX	CINDY CRAIN LARSON AND ASSOCIATES, INC. P.O. BOX 50685 MIDLAND, TX 79710			Order#: Project: Project Nam Location:	G030 0-010 le: Texa None	95383 90 co/ McKinley I 9 Given	Lease
Lab ID:	0305383-10						
Sample ID:	SS-11 (16')						
				8015M			
	Method	Date	Date	Sample	Dilution	· • • ·	
	<u>Blank</u>	Prepared	Analyzed	Amount	Factor	Analyst	Method
			1/4/03	1	1	RKT	8015M
		Parameter		Resul mg/kg	lt 3	RL	
		GRO, C6-C12		<10.0)	10.0	
		DRO, >C12-C35		<10.0)	10.0	
		TOTAL, C6-C35	;	<10.0)	10.0	
		Surrog	ates	% Recovered	QC Lim	its (%)	
		1-Chlorooc	tane	100%	70	130	
		1-Chlorooc	tadecane	101%	70	130	
Lab ID: Sample ID:	0305383-11 SS-12 (17')						
				8015M			
	Method	Date	Date	Sample	Dilution		
	Blank	Prepared	Analyzed 1/4/03	<u>Amount</u> 1	<u>Factor</u> 10	<u>Analyst</u> RKT	Method 8015M
				A	IV	1/1/1	0013141
		Parameter		Resul mg/kg	t g	RL	
		GRO, C6-C12		< 100)	100	
		[DRO, >C12-C35		900		100	

Surrogates	% Recovered	QC Limits (%)		
1-Chlorooctane	9%	70	130	
1-Chlorooctadecane	9%	70	130	

900

DL = Diluted out N/A = Not Applicable RL = Reporting Limit

ENVIRONMENTAL LAB OF TEXAS I, LTD. 12600 West

TOTAL, C6-C35

12600 West I-20 East, Odessa, TX 79765 Ph: 915-563-1800

CINDY CRAIN LARSON AND A P.O. BOX 50685 MIDLAND, TX	ASSOCIATES, INC. 79710			Order#: Project: Project Nam Location:	der#: G0305383 oject: 0-0100 oject Name: Texaco/ McKinley cation: None Given		ease
Lab ID:	0305383-12						
Sample ID:	SS-13 (16')						
				8015M			
	Method	Date Brong red	Date Analyzed	Sample	Dilution	Analyst	Mathad
	Blank	<u>r repareu</u>	<u>Anaryzeu</u> 1/6/03 18:04	<u>Amount</u> 1	<u>ractor</u> 1	<u>Anaryst</u> RKT	8015M
		Parameter		Resu mg/kj	lt g	RL	
		GRO, C6-C12		<10.0)	10.0	
		DRO, >C12-C35		<10.0)	10.0	
		TOTAL, C6-C35		<10.0)	10.0	
			·····			1. (84)	
		Surroga 1 Chlorooct	les	% Recovered		11ts (%)	
		1-Chloroocta	adecane	117%	70	130	
Lab ID: Sample ID:	0305383-13 SS-14 (10')			8015M			
	Method	Date	Date	Sample	Dilution		
	<u>Blank</u>	<u>Prepared</u>	<u>Analyzed</u> 1/6/03	<u>Amount</u> 1	<u>Factor</u> 1	<u>Analyst</u> RKT	<u>Method</u> 8015M
			18:04				
		Parameter	<u> </u>	Resu mg/kg	lt 3	RL	
		GRO, C6-C12		<10.0)	10.0	
		DRO, >C12-C35		176		10.0	
		TOTAL, C6-C35		176		10.0	
					1		
		Surroga	tes	% Recovered	QC Lin	nits (%)	

1-Chlorooctane

1-Chlorooctadecane

112%

114%

70

70

130

CINDY CRAIN LARSON AND ASSOCIATES, INC. P.O. BOX 50685 MIDLAND, TX 79710			<u>u</u>	Order#: Project: Project Name: Location:		05383 00 aco/ McKinley I e Given	.case
Lab ID:	0305383-14						
Sample ID:	SS-15 (19')			001516			
	Method	Data	Date	8013M Sample	Dilutio		
	Blank	Prepared	Analyzed	<u>Amount</u>	Factor	<u>Analyst</u>	Method
			1/6/03 18:04	1	1	RKT	8015M
		Parameter		Result mg/kg	:	RL	
		GRO, C6-C12		52.3		10.0	
		DRO, >C12-C35		264		10.0	
		TOTAL, C6-C35		316		10.0	
		Surrogat	es	% Recovered	QC Lir	nits (%)	
		1-Chloroocta	ne	119%	70	130	
		1-Chloroocta	decane	126%	70	130	
Lab ID: Sample ID:	0305383-15 SS-16 (27')						
				8015M			
	Method Blank	Date <u>Prepared</u>	Date <u>Analyzed</u>	Sample <u>Amount</u>	Dilution <u>Factor</u>	n <u>Analyst</u>	Method
			1/6/03 18:04	1	1	RKT	8015M
		Parameter		Result mg/kg		RL	
		GRO, C6-C12		<10.0		10.0	
		DRO, >C12-C35		<10.0		10.0	
		TOTAL, C6-C35		<10.0	I	10.0	

Surrogates	% Recovered	QC Limits (%)		
1-Chlorooctane	121%	70	130	
1-Chlorooctadecane	125%	70	130	

ENVIRONMENTAL LAB OF TEXAS I, LTD. 12600 West I-20 East, Odessa, TX 79765 Ph: 915-563-1800

CINDY CRAIN LARSON AND ASSOCIATES, INC. P.O. BOX 50685 MIDLAND, TX 79710				Order#: Project: Project Name: Location:		0305383 -0100 exaco/ N one Give	lcKinley n	Lease
Lab ID:	0305383-16							
Sample ID:	SS-17 (29')							
				8015M				
	Method	Date	Date	Sample	Dilut	tion		
	Blank	Prepared	Analyzed	<u>Amount</u>	Fact	tor	Analyst	Method
			18:04	I	1		RKI	8015M
		Parameter		Resul mg/kg	t 5	R	L	
		GRO, C6-C12		<10.0)	10).0	
		DRO, >C12-C35		<10.0)	1().0	
		TOTAL, C6-C35		<10.0		10).0	
		Surroga	ites	% Recovered	QCI	Limits (%	6)	
		1-Chlorooct	ane	126%	70	130	· _	
		1-Chlorooct	adecane	127%	70	130		
Lab ID: Sample ID:	0305383-17 SS-18 (29')		·					
				8015M				
	Method	Date	Date	Sample	Dilut	tion		
	<u>Blank</u>	<u>Prepared</u>	<u>Analyzed</u> 1/6/03 18:04	<u>Amount</u> 1	<u>Fact</u> 1	tor .	<u>Analyst</u> RKT	Method 8015M
		Parameter		Resul mg/kg	t	R	L	
		GRO, C6-C12		<10.0)	10).0	
		DRO, >C12-C35		<10.0		10).0	
		TOTAL, C6-C35		<10.0		10).0	
		Surroad	ates	% Recovered		imite /0	61	
				/ necovered	140.1		2	

1-Chlorooctadecane

120%

70

CINDY CRAIN LARSON AND A P.O. BOX 50685 MIDLAND, TX	ASSOCIATES, INC. 79710			Order#: Project: Project Nam Location:	Order#: G03053 Project: 0-0100 Project Name: Texaco/ Location: None G		.case
Lab ID:	0305383-18						
Sample ID:	SS-19 (20')						
			1	8015M			
	Method	Date	Date	Sample	Dilutio	n	
	Blank	Prepared	Analyzed	Amount	Factor	<u>Analyst</u>	Method
			1/6/0 <i>3</i> 18:04	1	1	RKT	8015M
		Parameter		Resu mg/k	lt g	RL	
		GRO, C6-C12	· · · · · · · · · · · · · · · · · · ·	<10.	0	10.0	
		DRO, >C12-C35		<10.	D	10.0	
		TOTAL, C6-C35		<10.	0	10.0	
		Surrogat	ies	% Recovered	QC Lir	nits (%)	
		1-Chloroocta	ine	130%	70	130	
		1-Chloroocta	idecane	120%	70	130	
Lab ID: Sample ID:	0305383-19 SS-20 (261)						
Sample IV.	35-20 (20)			8015M			
	Method	Date	Date	Sample	Dilutio	n	
	Blank	Prepared	Analyzed	Amount	<u>Factor</u>	Analyst	Method
			1/6/03 18:04	1	1	RKT	8015M
		Parameter		Resu mg/k	lt g	RL	
		GRO, C6-C12		<10.	D	10.0	
		DRO, >C12-C35		<10.0	D	10.0	
		TOTAL, C6-C35		<10.)	10.0	
		Surrogat	es	% Recovered	QC Lin	nits (%)	

122%

121%

70

70

130

130

DL = Diluted out N/A = Not Applicable RL = Reporting Limit

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1-Chlorooctane

1-Chlorooctadecane

ID: 0305383-20	
aple ID: SS-21 (15')	
8015M	
Method Date Date Sample Dilution <u>Blank Prepared Analyzed Amount Factor Analyst Me</u> 1/6/03 1 1 RKT 80 18:04	ethod 15M
Parameter Result RL	
GRO, C6-C12 <10.0 10.0	
DRO, >C12-C35 <10.0 10.0	
TOTAL, C6-C35 <10.0 10.0	
Surrogates% RecoveredQC Limits (%)1-Chlorooctane122%701301-Chlorooctadecane117%70130	
ID: 0305383-21	
1ple ID: SS-22 (27')	
8015M	
Method Date Date Sample Dilution	
<u>Blank Prepared Analyzed Amount Factor Analyst Mo</u> 1/6/03 1 1 RKT 80 18:04	ethod 15M
Parameter Result RL mg/kg	
GRO, C6-C12 <10.0 10.0	
DRO, >C12-C35 49.3 10.0	
TOTAL, C6-C35 49.3 10.0	
Surrogates % Recovered QC Limits (%) 1-Chlorooctane 84% 70 130	

1-Chlorooctadecane

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85%

70

CINDY CRAIN LARSON AND A P.O. BOX 50685 MIDLAND, TX	ASSOCIATES, INC. 79710			Order#: Project: Project Nam Location:	G03(0-01(e: Texa None	G0305383 0-0100 Texaco/ McKinley Lease None Given		
Lab ID: Sample ID:	0305383-22 SS-23 (10')							
-				8015M				
	Method <u>Blank</u>	Date <u>Prepared</u>	Date <u>Analyzed</u> 1/6/03 18:04	Sample <u>Amount</u> 1	Dilution <u>Factor</u> 10	<u>Analyst</u> RKT	<u>Method</u> 8015M	
		Parameter		Resul mg/kg	lt g	RL		
		GRO, C6-C12		< 100		100		
		DRO, >C12-C35		3970		100		
		TOTAL, C6-C35		3970		100		
		Surroga	tes	% Recovered	QC Lim	iits (%)		
		1-Chlorooct	ane	11%	70	130		

13%

70

130

1-Chlorooctadecane

Approval: <u>Seasce MCMuney</u> 01-07-03 Raland K. Tuttle, Lab Director, QA Officer Date

Raland K. Tuttle, Lab Director, QA Officer U Celey D. Keene, Org. Tech. Director Jeanne McMurrey, Inorg. Tech. Director Sandra Biezugbe, Lab Tech. Sara Molina, Lab Tech.

DL = Diluted out N/A = Not Applicable RL = Reporting Limit

ENVIRONMENTAL LAB OF TEXAS QUALITY CONTROL REPORT

8015M

Orděr#: G0305383

BLANK	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
TOTAL, C6-C35-mg/kg		0004256-02			<10.0		
TOTAL, C6-C35-mg/kg		0004257-02			<10.0	1	
CONTROL	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
TOTAL, C6-C35-mg/kg		0004256-03	· · · · · · · · · · · · · · · · · · ·	952	850	89.3%	
CONTROL DUI	D SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
TOTAL, C6-C35-mg/kg		0004256-04		952	860	90.3%	1.2%
MS	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
TOTAL, C6-C35-mg/kg	<u></u>	0305383-15	0	952	790	83.%	
MSD	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
TOTAL, C6-C35-mg/kg		0305383-15	0	952	810	85.1%	2.5%
SRM	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
TOTAL, C6-C35-mg/kg		0004256-05		1000	840	84.%	
TOTAL, C6-C35-mg/kg		0004257-05		1000	814	81.4%	

ENVIRONMENTAL LAB OF TEXAS QUALITY CONTROL REPORT 8021B/5030 BTEX or

Order#: G0305383

BLANK	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Benzene-mg/kg	- 114 114 114.	0004249-02			<0.025		
Toluene-mg/kg		0004249-02			<0.025		
Ethylbenzene-mg/kg		0004249-02			<0.025		
p/m-Xylene-mg/kg		0004249-02			<0.025		
o-Xylene-mg/kg		0004249-02			<0.025		
MS	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Benzene-mg/kg	·	0305380-06	0	0.1	0.105	105.%	
Toluene-mg/kg		0305380-06	0	0.1	0.112	112.%	
Ethylbenzene-mg/kg		0305380-06	0	0.1	0.113	113.%	
p/m-Xylene-mg/kg		0305380-06	0	0.2	0.225	112.5%	
o-Xylene-mg/kg		0305380-06	0	0.1	0.108	108.%	
MSD	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Benzene-mg/kg		0305380-06	0.105	0.1	0.102	102.%	2.9%
Toluene-mg/kg		0305380-06	0.112	0.1	0.105	105.%	6.5%
Ethylbenzene-mg/kg		0305380-06	0.113	0.1	0.104	104.%	8.3%
p/m-Xylene-mg/kg		0305380-06	0.225	0.2	0.210	105.%	6.9%
o-Xylene-mg/kg		0305380-06	0.108	0.1	0.102	102.%	5.7%
SRM	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Benzene-mg/kg		0004249-05	· · · · · · · · · · · · · · · · · · ·	0.1	0.118	118.%	
Toluene-mg/kg		0004249-05	· · · · · · · · · · · · · · · · · · ·	0.1	0.113	113.%	
Ethylbenzene-mg/kg		0004249-05		0.1	0.111	111.%	
p/m-Xylene-mg/kg		0004249-05		0.2	0.232	116.%	
o-Xylene-mg/kg		0004249-05		0.1	0.111	111.%	

CASE NARRATIVE ENVIRONMENTAL LAB OF TEXAS

Prepared for:

LARSON AND ASSOCIATES, INC. P.O. BOX 50685 MIDLAND, TX 79710 Order#: G0305383

Project: To

Texaco/ McKinley Lease

The following samples were received as indicated below and on the attached Chain of Custody record. All analyses were performed within the holding time and with acceptable quality control results unless otherwise noted.

SAMPLE ID	LAB ID	MATRIX	Date Collected	Date Received
SS-2 (8')	0305383-01	SOIL	01/02/2003	01/03/2003
SS-3 (9')	0305383-02	SOIL	01/02/2003	01/03/2003
SS-4 (8')	0305383-03	SOIL	01/02/2003	01/03/2003
SS-5 (8')	0305383-04	SOIL	01/02/2003	01/03/2003
SS-6 (7')	0305383-05	SOIL	01/02/2003	01/03/2003
SS-7 (7')	0305383-06	SOIL	01/02/2003	01/03/2003
SS-8 (9')	0305383-07	SOIL	01/02/2003	01/03/2003
SS-9 (9')	0305383-08	SOIL	01/02/2003	01/03/2003
SS-10 (9')	0305383-09	SOIL	01/02/2003	01/03/2003
SS-11 (16')	0305383-10	SOIL	01/02/2003	01/03/2003
SS-12 (17')	0305383-11	SOIL	01/02/2003	01/03/2003
SS-13 (16')	0305383-12	SOIL	01/02/2003	01/03/2003
SS-14 (10')	0305383-13	SOIL	01/02/2003	01/03/2003
SS-15 (19')	0305383-14	SOIL	01/02/2003	01/03/2003
SS-16 (27')	0305383-15	SOIL	01/02/2003	01/03/2003
SS-17 (29')	0305383-16	SOIL	01/02/2003	01/03/2003
SS-18 (29')	0305383-17	SOIL	01/02/2003	01/03/2003
SS-19 (20')	0305383-18	SOIL	01/02/2003	01/03/2003
SS-20 (26')	0305383-19	SOIL	01/02/2003	01/03/2003
SS-21 (15')	0305383-20	SOIL	01/02/2003	01/03/2003
SS-22 (27')	0305383-21	SOIL	01/02/2003	01/03/2003
SS-23 (10')	0305383-22	SOIL	01/02/2003	01/03/2003

Surrogate recoveries are outside the control limits because they were diluted out. (TPH) (0205383-07, 08, 09, 22)

CASE NARRATIVE ENVIRONMENTAL LAB OF TEXAS

Prepared for:

LARSON AND ASSOCIATES, INC. P.O. BOX 50685 MIDLAND, TX 79710 Order#: G0305383

Project: Texaco/ McKinley Lease

The following samples were received as indicated below and on the attached Chain of Custody record. All analyses were performed within the holding time and with acceptable quality control results unless otherwise noted.

The enclosed results of analyses are representative of the samples as received by the laboratory. Environmental Lab of Texas makes no representations or certifications as to the methods of sample collection, sample identification, or transportation handling procedures used prior to our receipt of samples. To the best of my knowledge, the information contained in this report is accurate and complete.

Approved By: <

Environmental Lab of Texas I, Etd.

Date: 01-07-03

				100 D			2,				
CLIENT NAME				SITE MANAGER	۲ ۲		52	PARA	METERS/METHOD NUMBE	CHAIN-OF-CUSTODY F	RECORD
Texa	100			Cinchy	Crain	6	°4	2			
PROJECT NO.				PROJECT NAM	نان		NEKS	71. V		arson & hor eavielt (87)	7_DAFA
1	9.010	2		MCK	nley L	6455	IIATVO	1.0 E		Environmental Consultants 915-687	1060-2
PAGE /	OF "	\sim	LAE	8. PO #			OF CC	3 X. 108		507 N. Marienfeld, Ste. 202 • Midland,	J, TX 79701
JUNI JUNI	- 14 - 14	della.	-3140 110c	SAMPLE IDENT	IFICATION		NUMBER	ILG HLL		LAB. I.D. REMARKS NUMBER I.E., FILTERED, UNFILTER PRESERVED, UNPRESERV (LAB USE ONLY) GRAB COMPOSITE)	RED, RVED,
1/2/03 10	-10		2	55-2	(8')		-	7		0305383-01	
10. 10.	42		2	55-31	(6)		-	7		02	
10	44			55.41	(8 1)		`	7		63	
11 11	57		7	55-51	(8 '		-	7		ha	
" 10	159		7	55.6	(7^{i})		~	7		\$¢	
" "	02		7	55-7	(2')		/	7		dr	
1// "	95		`^	55-8	(6,)		/	7		67	
" "	07		7	55-9	(6)		/	~ ~		68	
"]],	0		7	55-10	(.6)		-	7		cq	
" "	30		7	55-11	(m)		/	7		01	
" "	35		7	55-12	(.21)		/	>		-	
"]].	38		7	55-13	(η)		/	7		21	
11 11	at.		1	55-14	(10.)		~	7		6	
" "	42		7	55-15	(19.)		~	7		2	
	45		7	55-16	127		ľ	7		15	
"]à	0hu		7	55-17	(.201)		/	7		1	
" 12	5/2		1	55-18	(29)		/	7		0	
1/2/	15		7	55-19	(20.)		/	7		8, 18	
SAMPLED P	r: (Signa	tugel	د .	DATE: TIME:	12103	RELINQUISHI	ED BY: (Signature)	DATE: TIME:	RECEIVED BY: (Signature) DA TIN	ATE: IME:
RELINQUISH	ED BY: (Signat	Jre)	DATE	15/03	RECEIVED BY	: (Signa	ture)	DATE:	- SAMPLE SHIPPED BY: (Circle)	
	4	XAL	. 6	TIME	0825				TIME:	- FEDEX BUS AIRBILL #:	
COMMENTS									TURNAROUND TIME NEEDED	HAND DELIVERED UPS OTHER:	
	÷									VELLOW - RECEIVING LAB	
RECEIVING L	ABORAT	S S S S S S S S S S S S S S S S S S S		20 F	Labe	<i>AF TX</i> R	ECEIVE	J BY: (Signc	ature)		
	1csso			- STATE: -	ZIP	JATLES .	MIE	01-034	DE DO ZO		
SAMPLE CONDI	ITION WHE	N RECEIV	ÆD:					INTACT PER	SON:	SAMPLE TYPE:	
				-1,5%				C. Cra	rin Lin	Soi /	

	OF-CUSTODY RECORD		X Ites, Inc. Fax: 915-687-0456 tal Consultants 915-687-0901	nfeld, Ste. 202 • Midland, TX 79701	REMARKS (I.E., FILTERED, UNFILTERED, PRESERVED, UNPRESERVED, GADA COMPOSITE)										ture) DATE TIME	ć (Circle)	BUS AIRBILL #:	UPS OTHER: 1G LAB	IG LAB (IU BE RELUKINEU IO ? RECEIPT)	COORDINATOR	./
	CHAIN			507 N. Marie	LAB. I.D. NUMBER (LAB USE ONLY)	0305383 19	1 20	17	22 4						RECEIVED BY: (Signa	SAMPLE SHIPPED BY	FEDEX	HAND DELIVERED	YELLOW - RECEIVIN LA AFTER DIANY DID IF CT	GOLD - QA/QC (SAMPLE TYPE:
	RS/METHOD NUMBER														DATE: TIME:	DATE:	TIME:	rnaround time needed 🤇	2	TIME: OB 25	Ų
(طدک	N PARAMETE	<u>لم</u>	NTAINERS	98 DE CO	HJJL Anwbek (\ \ \	/ /		>						 IED BY: (Signature)	Y: (Signature)			RECEIVED BY: (Signature)	DATE: 01-03 03	LA CONTACT PERSON:
	SITE MANAGER:	Lindy Lean	project name: McKinJey Lease	0#	SAMPLE IDENTIFICATION	55-20 (221)	55-21 (151)	55 22 (27)	55 23 (10')						Date: 1/2/03 Relinquish Time: 1300	DATE: 1/3/03 RECEIVED BY	TIME: 0825		mental Labof Exes	STATE: TX ZIP: 79765 PHONE:	,S°C
	S	¢0	00/0	OF 2 ILAB. PC	JIOS	3	7	1	<i>S</i>						(Signature)	BY: (Signature)	and sain		BORATORY: EAV. D.	SSG S	DN WHEN RECEIVED:
	CLIENT NAME:	lexá	PROJECT NO.:	PAGE 2	3W11 3400	12/03 12:	11 620	1. 121	" 131						SAMPRED BY:	RELINQUISHE		COMMENTS!	RECEIVING LA	CITY: 0d	SAMPLE CONDITI

ANALYTICAL REPORT

Prepared for:

CINDY CRAIN LARSON AND ASSOCIATES, INC. P.O. BOX 50685 MIDLAND, TX 79710

Project: Texaco / McKinley PO#:

Order#: G0305663

Report Date: 02/11/2003

<u>Certificates</u> US EPA Laboratory Code TX00158

ENVIRONMENTAL LAB OF TEXAS SAMPLE WORK LIST

LARSON AND ASSOCIATES, INC. P.O. BOX 50685 MIDLAND, TX 79710 915-687-0456

Order#: G0305663 Project: 2-0100 Project Name: Texaco / McKinley Location: None Given

The samples listed below were submitted to Environmental Lab of Texas and were received under chain of custody. Environmental Lab of Texas makes no representation or certification as to the method of sample collection, sample identification, or transportation/handling procedures used prior to the receipt of samples by Environmental Lab of Texas, unless otherwise noted.

				Date / Time]	Date / Time		
Lab ID:	Sample :	<u>Matrix:</u>		_Collected_		Received	Container	<u>Preservative</u>
0305663-01	SS-24 (10')	SOIL		2/7/03		2/7/03	4 oz Glass	None
	T (77	Distant	No	10:15		16:55		
La	b Testing:	Rejected:	INU	10	emp:	: 1.0 C		
	8015M							
	Chloride							
0305663-02	SS-25 (19')	SOIL		2/7/03		2/7/03	4 oz Glass	None
				10:20		16:55		
La	<u>b Testing:</u>	Rejected:	No	Т	emp:	1.0 C		
	8015M							
l	Chloride					-		
0305663-03	SS-26 (7')	SOIL		2/7/03		2/7/03	4 oz Glass	None
0303003-03				10:25		16:55		
La	<u>b Testing:</u>	Rejected:	No	Т	emp:	1.0 C		
1	8015M							
	Chloride							
0305663-04	SS-27 (7')	SOIL		2/7/03		2/7/03	4 oz Glass	None
				10:30		16:55		
<u>La</u>	<u>b Testing:</u>	Rejected:	No	Т	emp	: 1.0 C		
	8015M							
	Chloride							
0305663-05	SS-28 (20')	SOIL		2/7/03		2/7/03	4 oz Glass	None
				10:35		16:55		
<u>La</u>	<u>b Testing:</u>	Rejected:	No	T	emp	: 1.0 C		
	8015M							
[Chloride							
 0305663_06	SS-29 (18')	SOIL		2/7/03		2/7/03	4 oz Glass	None
				10:40		16:55		
<u>La</u>	<u>b Testing:</u>	Rejected:	No	T	emp	: 1.0 C		
•	8015M							
	Chloride							
0305663-07	SS-30 (18')	SOIL		2/7/03		2/7/03	4 oz Glass	None
				10:50		16:55		
<u>La</u>	<u>b Testing:</u>	Rejected:	No	Т	emp	: 1.0 C		

ENVIRONMENTAL LAB OF TEXAS SAMPLE WORK LIST

LARSON AND ASSOCIATES, INC. P.O. BOX 50685 MIDLAND, TX 79710 915-687-0456 Order#:G0305663Project:2-0100Project Name:Texaco / McKinleyLocation:None Given

The samples listed below were submitted to Environmental Lab of Texas and were received under chain of custody. Environmental Lab of Texas makes no representation or certification as to the method of sample collection, sample identification, or transportation/handling procedures used prior to the receipt of samples by Environmental Lab of Texas, unless otherwise noted.

				Date / Tim	ie]	Date / Time		
Lab ID:	Sample :	Matrix:	<u> </u>	<u>Collected</u>	L.	Received	Container	Preservative
	8015M							
	Chloride			·····				
0305663-08	SS-31 (15')	SOIL		2/7/03		2/7/03	4 oz Glass	None
				11:00		16:55		
La	b Testing:	Rejected:	No		Temp:	1.0 C		
	8015M							
l	Chloride							
0305663-09	SS-32 (8')	SOIL		2/7/03		2/7/03	4 oz Glass	None
000000000000				11:05		16:55		
, <u>La</u>	<u>ıb Testing:</u>	Rejected:	No		Temp:	1.0 C		
	8015M							
J	Chloride							
0305663-10	SS-33 (11')	SOIL		2/7/03		2/7/03	4 oz Glass	None
0505005 10				10:45		16:55		
La <u>La</u>	ib Testing:	Rejected:	No		Temp	1.0 C		
_	8015M							
	Chloride							
0305663-11	SS-34 (8')	SOIL		2/7/03		2/7/03	4 oz Glass	None
1				11:10		16:55		
La	<u>ıb Testing:</u>	Rejected:	No		Temp	1.0 C		
-	8015M							
l	Chloride							
0305663-09 <u>La</u> 0305663-10 <u>La</u> 0305663-11 <u>La</u>	SS-32 (8') ab Testing: 8015M Chloride SS-33 (11') ab Testing: 8015M Chloride SS-34 (8') ab Testing: 8015M Chloride	SOIL Rejected: SOIL Rejected: SOIL Rejected:	No No	2/7/03 11:05 2/7/03 10:45 2/7/03 11:10	Temp: Temp: Temp:	2/7/03 16:55 1.0 C 2/7/03 16:55 1.0 C 2/7/03 16:55 1.0 C	4 oz Glass 4 oz Glass 4 oz Glass	Non

CINDY CRAIN LARSON AND A P.O. BOX 50685 MIDLAND, TX	ASSOCIATES, INC. 79710			Order#: Project: Project Nam Location:	G030 2-010 he: Texa Nono	05663 00 1co / McKinley e Given	
Lab ID:	0305663-01						
Sample ID:	SS-24 (10')						
				8015M			
	Method	Date	Date	Sample	Dilutior	1	
	Blank	Prepared	Analyzed	Amount	<u>Factor</u>	<u>Analyst</u>	Method
			2/10/03	1	1	CDH	8015M
		Parameter		Resu	lt	RL	
				mg/k	g	10.0	
		GRO, C6-C12		<10.		10.0	
		TOTAL C6-C35		<10.		10.0	
		101111,000033			<u> </u>		
		Surroga	tes	% Recovered	QC Lin	nits (%)	
		1-Chlorooct	ane	104%	70	130	
		1-Chlorooct	adecane	101%	70	130	
Lab ID: Sample ID:	0305663-02 SS-25 (19')						
		_	-	8015M			
	Method	Date Prepared	Date Analyzed	Sample Amount	Dilution Factor) Analyst	Method
	Dialik		2/10/03	1	1	CDH	8015M
		Parameter		Resu mg/k	lt	RL	
		GRO, C6-C12		<10.	0	10.0	
		DRO, >C12-C35		<10.	0	10.0	
		TOTAL, C6-C35		<10.	0	10.0	
		5	400	0/ D			
		Surroga	tes	% Recovered	IQU LI	nits (%)	

DL = Diluted out N/A = Not Applicable RL = Reporting Limit

1-Chlorooctane

1-Chlorooctadecane

101%

98%

70

70

130

130

Page 1 of 6

- ----

CINDY CRAIN LARSON AND A P.O. BOX 50685 MIDLAND, TX	ASSOCIATES, INC. 79710			Order#: Project: Project Name Location:	G030 2-010 : Texa None	95663 00 co / McKinley 9 Given	
Lab ID:	0305663-03						
Sample ID:	SS-26 (7')						
				8015M			
	Method	Date	Date	Sample	Dilution		
	<u>Blank</u>	Prepared	Analyzed	Amount	Factor	<u>Analyst</u>	Method
			2/10/03	1	1	CDH	8015M
		Parameter		Result mg/kg		RL	
		GRO, C6-C12		<10.0		10.0	
		DRO, >C12-C35		<10.0		10.0	
		TOTAL, C6-C35		<10.0		10.0	
		Surroga 1-Chlorooct 1-Chlorooct	ates ane adecane	% Recovered 110% 107%	QC Lim 70 70	iits (%) 130 130	
Lab ID: Sample ID:	0305663-04 SS-27 (7')			901534			
	Method	Date	Date	Sample	Dilution		
	Blank	Prepared	Analyzed	Amount	Factor	<u>Analyst</u>	Method
			2/10/03	1	1	CDH	8015M
		Parameter		Result mg/kg		RL	
		GRO, C6-C12		<10.0		10.0	
		DRO, >C12-C35		<10.0		10.0	
		TOTAL, C6-C35		<10.0		10.0	
		Surroga	ites	% Recovered	QC Lin	iits (%)	

1-Chlorooctane

1-Chlorooctadecane

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103%

101%

70

70

130

CINDY CRAIN LARSON AND ASS P.O. BOX 50685 MIDLAND, TX 79	SOCIATES, INC. 710			Order#: Project: Project Name: Location:	G03 2-01 : Texa Non	05663 00 1co / McKinley e Given	
Lab ID:	0305663-05						
Sample ID:	SS-28 (20')						
			1	8015M			
	Method	Date Bronorod	Date Analyzad	Sample	Dilution	1 A no luct	Mathad
	Blank	rrepared	<u>Anaryzeu</u> 2/10/03	<u>Amount</u> 1	Factor 1	<u>Analyst</u> CDH	R015M
			2,10,05	I	1	CDII	0013:01
		Parameter		Result mg/kg		RL	
		GRO, C6-C12		<10.0		10.0	
		DRO, >C12-C35		<10.0		10.0	
		TOTAL, C6-C35		<10.0		10.0	
		Surrage		% Deservered		nite (8/)	
		1-Chloroocta	no	% Recovered	70 U	130	
		1-Chloroocta	decane	97%	70	130	
Lab ID:	0305663-06						
Sample ID:	SS-29 (18')						
			-	8015M			
	Method Blank	Date Prepared	Date Analyzed	Sample Amount	Dilution Factor	n Analvst	Method
	Dialik	<u>i repared</u>	2/10/03	1	1	CDH	8015M
		Parameter		Result mg/kg		RL	
		GRO, C6-C12	· · · · ·	<10.0		10.0	
		DRO, >C12-C35		<10.0		10.0	
		TOTAL, C6-C35		<10.0		10.0	

Surrogates	% Recovered	QC Li	mits (%)
1-Chlorooctane	104%	70	130
1-Chlorooctadecane	101%	70	130

DL = Diluted out N/A = Not Applicable RL = Reporting Limit

CINDY CRAIN LARSON AND A P.O. BOX 50685 MIDLAND, TX	ASSOCIATES, INC. 79710			Order#: Project: Project Nam Location:	G03 2-01 e: Texa Non	05663 00 aco / McKinley e Given	
Lab ID:	0305663-07						
Sample ID:	SS-30 (18')						
				8015M			
	Method	Date	Date	Sample	Dilution	1	
	Blank	Prepared	Analyzed	Amount	Factor	Analyst	<u>Method</u>
			2/10/03	I	I	CDH	8015M
		Parameter		Resul mg/kg	t s	RL	
		GRO, C6-C12		<10.0)	10.0	
		DRO, >C12-C35		85.1		10.0	
		TOTAL, C6-C35		85.1		10.0	
		Surroga	tos	% Decovered		nite (%)	
		1-Chlorooct	200	103%		130	
		1-Chlorooct	adecane	101%	70	130	
Lab ID: Sample ID:	0305663-08 SS-31 (15')			001616			
	Madhad	Dete	Data	8015M	D 11 41		
	Blank	Prepared	Analyzed	Sample Amount	Factor	a Analyst	Method
			2/10/03	1	1	СДН	8015M
				Pogul	·		
		Parameter		mg/kg	s l	RL	
		GRO, C6-C12		<10.0)	10.0	
		DRO, >C12-C35		<10.0	<u> </u>	10.0	
		TOTAL, C6-C35		<10.0		10.0	

Surrogates	% Recovered	QC Li	mits (%)
1-Chlorooctane	112%	70	130
I-Chlorooctadecane	111%	70	130

DL = Diluted out N/A = Not Applicable RL = Reporting Limit

ENVIRONMENTAL LAB OF TEXAS I, LTD. 12

CINDY CRAIN LARSON AND A P.O. BOX 50685 MIDLAND, TX	SSOCIATES, INC. 79710			Order#: Project: Project Name Location:	G03 2-01 : Tex: Non	05663 00 aco / McKinley e Given	
Lab ID:	0305663-09						
Sample ID:	SS-32 (8')						
				8015M			
	Method	Date	Date	Sample	Dilution	n Amelant	N
	Blank	rrepared	<u>Analyzeu</u> 2/10/03	Amount 1	<u>ractor</u>	<u>Analyst</u> CDH	<u>Mietnoa</u> 8015M
				-	-	CDII	0010111
		Parameter		Result		RI.	
				mg/kg			
		GRO, C6-C12		<10.0		10.0	
		$\frac{DRO}{TOTAL} C6-C35$		430		10.0	
		101112, 00-055				10.0	
		Surrogat	tes	% Recovered	QC Lir	nits (%)	
		1-Chloroocta	ine	107%	70	130	
		1-Chloroocta	Idecane	107%	70	130	
Lab ID: Sample ID:	0305663-10						
Sampic ID:	55-55 (11)			001574			
	Method	Date	Date	OUI JIVI Sample	Dilutio	n	
	Blank	Prepared	<u>Analyzed</u>	Amount	Factor	<u>Analyst</u>	Method
			2/10/03	1	1	CDH	8015M
		Parameter		Result mg/kg		RL	
		GRO, C6-C12		<10.0		10.0	
		DRO, >C12-C35		<10.0		10.0	
		TOTAL, C6-C35		<10.0		10.0	

Surrogates	% Recovered	QC Li	mits (%)
1-Chlorooctane	90%	70	130
1-Chlorooctadecane	90%	70	130

DL = Diluted out N/A = Not Applicable RL = Reporting Limit

ENVIRONMENTAL LAB OF TEXAS I, LTD. 12600 West I-20 East, Odessa, TX 79765 Ph: 915-563-1800

CINDY CRAIN	Order#:	G0305663	
LARSON AND ASSOCIATES, INC.	Project:	2-0100	
P.O. BOX 50685	Project Name:	Texaco / McKinley	
MIDLAND, TX 79710	Location:	None Given	

Sample ID:

SS-34 (8')

8015M Method Date Date Sample Dilution Prepared Analyzed Amount Factor Method Blank <u>Analyst</u> 2/10/03 1 1 CDH 8015M Т

Result mg/kg	RL
<10.0	10.0
159	10.0
159	10.0
	Result mg/kg <10.0

Surrogates	% Recovered	QC Li	mits (%)
1-Chlorooctane	83%	70	130
1-Chlorooctadecane	84%	70	130

2-11-03 KalandkJub Approval: Date

Raland K. Tuttle, Lab Director, QA Officer Celey D. Keene, Org. Tech. Director Jeanne McMurrey, Inorg. Tech. Director Sandra Biezugbe, Lab Tech. Sara Molina, Lab Tech.

DL = Diluted out N/A = Not Applicable RL = Reporting Limit

ENVIRONMENTAL LAB OF TEXAS I, LTD.

12600 West I-20 East, Odessa, TX 79765 Ph: 915-563-1800

CINDY CRAIN LARSON AND P.O. BOX 5068 MIDLAND, TX	ASSOCIATES, INC. 5 K 79710		Order# Project Project Locatio	#: t: t Name: on:	G0305663 2-0100 Texaco / McI None Given	Kinley		
Lab ID: Sample ID:	0305663-01 SS-24 (10')							
Tost Danan							Dete	
Parameter	neiers	Result	Units	Facto	n r RL	Method	Analyzed	Analyst
Chloride		44.3	mg/kg	1	20.0	9253	2/10/03	СК
Lab ID:	0305663-02						<u> </u>	
Sample ID:	SS-25 (19')							
<i>Test Paran</i> Parameter	neters	Result	Units	Dilutio <u>Facto</u>	n <u>r RL</u>	_Method_	Date Analyzed	<u>Analyst</u>
Chloride		324	mg/kg	1	20.0	9253	2/10/03	СК
Lab ID:	0305663-03							
Sample ID:	SS-26 (7')							
Test Paran Parameter	neters	Result	Units	Dilutio <u>Facto</u>	n <u>r RL</u>	Method	Date <u>Analyzed</u>	<u>Analyst</u>
Chloride		< 20.0	mg/kg	1	20.0	9253	2/10/03	СК
Lab ID:	0305663-04							
Sample ID:	SS-27 (7')							
Test Paran Parameter	neters	Result	<u>Units</u>	Dilutio <u>Facto</u>	n <u>r RL</u>	Method	Date <u>Analyzed</u>	<u>Analyst</u>
Chloride		< 20.0	mg/kg	1	20.0	9253	2/10/03	СК
Lab ID:	0305663-05							
Sample ID:	SS-28 (20')							
Test Paran Parameter	meters	Result	<u>Units</u>	Dilutio <u>Facto</u>	n <u>r RL</u>	Method	Date <u>Analyzed</u>	<u>Analyst</u>
Chloride		177	mg/kg	1	20.0	9253	2/10/03	СК
Lab ID:	0305663-06						·	
Sample ID:	SS-29 (18')							
Test Paran Parameter	meters	Result	<u>Units</u>	Dilutio <u>Facto</u>	n <u>r RL</u>	Method	Date <u>Analyzed</u>	<u>Analyst</u>
Chloride		< 20.0	mg/kg	1	20.0	9253	2/10/03	СК

RL = Reporting Limit N/A = Not Applicable

Page 1 of 2

CINDY CRAIN LARSON AND P.O. BOX 5068 MIDLAND, TY	N ASSOCIATES, INC. 15 X 79710		Order/ Projec Projec Locati	#: t: t Name: on:	G0305663 2-0100 Texaco / Mc None Given	Kinley		<u>.</u>
Lab ID: Sample ID:	0305663-07 SS-30 (18')							
Test Paran Parameter	neters	Result	Units	Dilution <u>Factor</u>	n <u>RL</u>	Method	Date <u>Analyzed</u>	<u>Analyst</u>
Chloride		88.6	mg/kg	1	20.0	9253	2/10/03	СК
Lab ID: Sample ID:	0305663-08 SS-31 (15')	<u></u>	,, <u> </u>					
Test Paran Parameter	neters	Result	Units	Dilution <u>Factor</u>	n <u>RL</u>	Method	Date <u>Analyzed</u>	<u>Analyst</u>
Chloride		59.1	mg/kg	1	20.0	9253	2/10/03	CK
Lab ID: Sample ID:	0305663-09 SS-32 (8')							
Test Parar Parameter	meters	<u>Result</u>	Units	Dilution <u>Factor</u>	n <u>RL</u>	Method	Date <u>Analyzed</u>	<u>Analyst</u>
Chloride		103	mg/kg	1	20.0	9253	2/10/03	СК
Lab ID: Sample ID:	0305663-10 SS-33 (11')	·					· · · · · · · · · · · · · · · · · · ·	
Test Paran Parameter	meters	<u>Result</u>	<u>Units</u>	Dilution <u>Factor</u>	n : <u>RL</u>	Method	Date <u>Analyzed</u>	<u>Analyst</u>
Chloride		295	mg/kg	1	20.0	9253	2/10/03	СК
Lab ID: Sample ID:	0305663-11 SS-34 (8')							
Test Paran Parameter	meters	<u>Result</u>	Units	Dilution <u>Factor</u>	n : <u>RL</u>	Method	Date <u>Analyzed</u>	<u>Analyst</u>
Chloride		59.1	mg/kg	1	20.0	9253	2/10/03	СК
				Approva Raland K	il: Ral	and KJ Director, OA Off	tuli 21	Date

Raland K. Tuttle, Lab Director, QA Officer Celey D. Keene, Org. Tech. Director Jeanne McMurrey, Inorg. Tech. Director Sandra Biezugbe, Lab Tech. Sara Molina, Lab Tech.

ENVIRONMENTAL LAB OF TEXAS QUALITY CONTROL REPORT

8015M

Order#: G0305663

BLANK	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
TOTAL, C6-C35-mg/kg		0004576-02			<10.0		
MS	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
TOTAL, C6-C35-mg/kg		0305663-01	0	952	989	103.9%	
MSD	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
TOTAL, C6-C35-mg/kg		0305663-01	0	952	998	104.8%	0.9%
SRM	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
TOTAL, C6-C35-mg/kg		0004576-05		1000	1060	106.%	

ENVIRONMENTAL LAB OF TEXAS I, LTD. 12600 West I-20 East, Odessa, TX 79765 Ph: 915-563-1800

ENVIRONMENTAL LAB OF TEXAS QUALITY CONTROL REPORT

Test Parameters

Order#: G0305663

BLANK	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Chloride-mg/kg		0004580-01			< 20.0		
MS	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Chloride-mg/kg		0305665-02	2350	834	3280	111.5%	
MSD	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Chloride-mg/kg		0305665-02	2350	834	3190	100.7%	2.8%
SRM	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Chloride-mg/kg		0004580-04		5000	5140	102.8%	

CLIENT N	AME:				SITE MANAGER	<			74 	RAME	'ERS/M	ETHOD	MUM (3ER	CHAIN-	-OFCUSTODY RE(CORD
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PAGE	Ì OF	_	_	LAB. F	# Oc			OF CO	-108	201.					507 N. Marie	snfeld, Ste. 202 • Midland, TX	10797
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ANALYTICAL REPORT

Prepared for:

CINDY CRAIN LARSON AND ASSOCIATES, INC. P.O. BOX 50685 MIDLAND, TX 79710

Project: Texaco/ McKinley

PO#:

Order#: G0305714

Report Date: 02/18/2003

<u>Certificates</u> US EPA Laboratory Code TX00158

ENVIRONMENTAL LAB OF TEXAS SAMPLE WORK LIST

LARSON AND ASSOCIATES, INC. P.O. BOX 50685 MIDLAND, TX 79710 915-687-0456 Order#:G0305714Project:2-0100Project Name:Texaco/McKinleyLocation:None Given

The samples listed below were submitted to Environmental Lab of Texas and were received under chain of custody. Environmental Lab of Texas makes no representation or certification as to the method of sample collection, sample identification, or transportation/handling procedures used prior to the receipt of samples by Environmental Lab of Texas, unless otherwise noted.

Lab ID: 0305714-01	<u>Sample :</u> SS-35 (9.5')	<u>Matrix:</u> SOIL	Date / Time <u>Collected</u> 2/13/03 11:35	Date / Time <u>Received</u> 2/13/03 16:55	<u>Container</u> 4 oz glass	Preservative Ice
	8015M Chloride	Kijeliu. No	I CIII	μ. 4.5 C		
0305714-02	SS-36 (9')	SOIL	2/13/03 11:40	2/13/03 16:55	4 oz glass	Ice
<u>La</u>	<u>ab Testing:</u> 8015M Chloride	Rejected: No	Tem	p: 4.5 C		
0305714-03	SS-37 (9')	SOIL	2/13/03 11:45	2/13/03 16:55	4 oz glass	Ice
	n <u>b Testing:</u> 8015M Chloride	Rejected: No	Tem	p: 4.5 C		

CINDY CRAIN LARSON AND A P.O. BOX 50685 MIDLAND, TX	SSOCIATES, INC. 79710			Order#: Project: Project Name Location:	G0305 2-0100 : Texaco None (714) o/ McKinley Given	
Lab ID:	0305714-01						
Sample ID:	SS-35 (9.5')						
				8015M			
	Method	Date	Date	Sample	Dilution		
	Blank	Prepared	Analyzed	Amount	Factor	Analyst	Method
			2/14/03	1	1	RKT	8015M
		Parameter		Result mg/kg		RL	
		GRO, C6-C12		<10.0		10.0	
		DRO, >C12-C35		<10.0		10.0	
		TOTAL, C6-C35	5	<10.0		10.0	
		Surroga 1-Chlorooct 1-Chlorooct	ates tane tadecane	% Recovered 86% 84%	QC Limit 70 70	ts (%) 130 130	
Lab ID: Sample ID:	0305714-02 SS-36 (9')			8015M			
	Method	Date	Date	Sample	Dilution		
	Blank	<u>Prepared</u>	Analyzed	Amount	Factor	<u>Analyst</u>	Method
			2/14/03	I	1	RKT	8015M
		Parameter		Result mg/kg	;	RL	
		GRO, C6-C12		<10.0		10.0	
		DRO, >C12-C35		<10.0		10.0	
		TOTAL, C6-C35	;	<10.0		10.0	
		Surroga	ates	% Recovered	OC Limi	ts (%)	

DL = Diluted out N/A = Not Applicable RL = Reporting Limit

1-Chlorooctane

1-Chlorooctadecane

Page 1 of 2

70

70

130

130

97%

95%

CINDY CRAIN LARSON AND A P.O. BOX 50685 MIDLAND, TX	ASSOCIATES, INC. 79710			Order#: Project: Project Name Location:	G0305 2-0100 e: Texace None (714 5/ McKinley Given		
Lab ID: Sample ID:	0305714-03 SS-37 (9')							
				8015M				
	Method <u>Blank</u>	Date <u>Prepared</u>	Date <u>Analyzed</u> 2/14/03	Sample <u>Amount</u> 1	Dilution <u>Factor</u> 1	<u>Analyst</u> RKT	Method 8015M	
		Parameter		Resul mg/kg	t	RL		
		GRO, C6-C12		<10.0		10.0		
		DRO, >C12-C35		<10.0	· · · · · · · · · · · · · · · · · · ·	10.0		
		TOTAL, C6-C35		<10.0		10.0		

Surrogates	% Recovered	QC Li	mits (%)
1-Chlorooctane	96%	70	130
1-Chlorooctadecane	94%	70	130

Approval: Kaland K Just 2-19-03 Raland K. Tuttle, Lab Director, QA Officer Date

Raland K. Tuttle, Lab Director, QA Officer Celey D. Keene, Org. Tech. Director Jeanne McMurrey, Inorg. Tech. Director Sandra Biezugbe, Lab Tech. Sara Molina, Lab Tech.

DL = Diluted out N/A = Not Applicable RL = Reporting Limit

ENVIRONMENTAL LAB OF TEXAS I, LTD.
ENVIRONMENTAL LAB OF TEXAS ANALYTICAL REPORT

CINDY CRAIN LARSON AND P.O. BOX 5068 MIDLAND, TX	I ASSOCIATES, INC. 5 K 79710		Order# Project Project Locatio	#: 2 1: 2 2 1: Name: 2 2 0 1: 1	G0305714 2-0100 Fexaco/ Mck None Given	Sintey		
Lab ID:	0305714-01							
Sample ID:	SS-35 (9.5')							
Test Paran Parameter	neters	Result	Units	Dilution <u>Factor</u>	<u>RL</u>	Method	Date <u>Analyzed</u>	<u>Analyst</u>
Chloride		73.8	mg/kg	1	20.0	9253	2/14/03	СК
Lab ID:	0305714-02							
Sample ID:	SS-36 (9')							
Test Paran Parameter	neters	<u>Result</u>	Units	Dilution <u>Factor</u>	<u>RL</u>	Method	Date <u>Analyzed</u>	<u>Analyst</u>
Chloride		88.6	mg/kg	1	20.0	9253	2/14/03	СК
Lab ID:	0305714-03							
Sample ID:	SS-37 (9')							
Test Paran	neters	Docult	Ilnite	Dilution	DI	Method	Date Analyzed	Anolyst
Chloride		118	mg/kg	<u>Pactor</u> 1	<u>KL</u> 20.0	9253	2/14/03	CK

Kalan CK. 52-19-03 Approval: Date

Raland K. Tuttle, Lab Director, QA Officer Celey D. Keene, Org. Tech. Director Jeanne McMurrey, Inorg. Tech. Director Sandra Biezugbe, Lab Tech. Sara Molina, Lab Tech.

RL = Reporting Limit N/A = Not Applicable

Page 1 of 1

ENVIRONMENTAL LAB OF TEXAS QUALITY CONTROL REPORT

8015M

Order#: G0305714

BLANK	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
TOTAL, C6-C35-mg/kg		0004668-02			<10.0		
MS	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
TOTAL, C6-C35-mg/kg		0305714-02	0	1070.05	792	74.%	
MSD	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
TOTAL, C6-C35-mg/kg		0305714-02	792	1070.05	813	76.%	2.6%
SRM	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
TOTAL, C6-C35-mg/kg		0004668-05	,	1000	800	80.%	

ENVIRONMENTAL LAB OF TEXAS QUALITY CONTROL REPORT

Test Parameters

Order#: G0305714

BLANK	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Chloride-mg/kg		0004640-01			<20.0		
MS	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Chloride-mg/kg		0305697-01	3540	5000	8510	99.4%	<u></u>
MSD	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Chloride-mg/kg		0305697-01	3540	5000	8600	101.2%	1.1%
SRM	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Chloride-mg/kg	******	0004640-04		5000	5230	104.6%	

CLIENT N	AME:				SITE MANAGER:			PAR	AMETERS/	METHOI		3ER	CHAIN-	-OFCUSTODY REC	ORD
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ANALYTICAL REPORT

Prepared for:

CINDY CRAIN LARSON AND ASSOCIATES, INC. P.O. BOX 50685 MIDLAND, TX 79710

Project: Texaco/ McKinley

PO#:

Order#: G0306129

Report Date: 04/02/2003

<u>Certificates</u> US EPA Laboratory Code TX00158

ENVIRONMENTAL LAB OF TEXAS SAMPLE WORK LIST

LARSON AND ASSOCIATES, INC. P.O. BOX 50685 MIDLAND, TX 79710 915-687-0456 Order#:G0306129Project:0-0100Project Name:Texaco/ McKinleyLocation:None Given

The samples listed below were submitted to Environmental Lab of Texas and were received under chain of custody. Environmental Lab of Texas makes no representation or certification as to the method of sample collection, sample identification, or transportation/handling procedures used prior to the receipt of samples by Environmental Lab of Texas, unless otherwise noted.

Lab ID:	Sample :	Matrix:	Date / Time <u>Collected</u>	Date / Time <u>Received</u>	<u>Container</u>	Preservative_
0306129-01	SS-38 (8.5')	SOIL	3/31/03 10:55	3/31/03 16:50	4 oz glass	Ice
La	<u>b Testing:</u> 8015M	Rejected: No	Tem	p: 6 C		

ENVIRONMENTAL LAB OF TEXAS ANALYTICAL REPORT

CINDY CRAIN LARSON AND A P.O. BOX 50685 MIDLAND, TX	ASSOCIATES, INC. 79710			Order#: Project: Project Nam Location:	G0306 0-0100 e: Texaco None (129)/ McKinley Given		
Lab ID: Sample ID:	0306129-01 SS-38 (8.5')							
	Method <u>Blank</u>	Date <u>Prepared</u>	Date <u>Analyzed</u> 4/1/03	8015M Sample <u>Amount</u> 1	Dilution <u>Factor</u> 1	<u>Analyst</u> WL	<u>Method</u> 8015M	
		Parameter		Resu mg/k	lt g	RL		
		GRO, C6-C12 DRO, >C12-C35		<10.0)	10.0 10.0		

Surrogates	% Recovered	QC Li	mits (%)
1-Chlorooctane	102%	70	130
1-Chlorooctadecane	97%	70	130

<10.0

02-03 Kalandk Approval: Date

Raland K. Tuttle, Lab Director, QA Officer Celey D. Keene, Org. Tech. Director Jeanne McMurrey, Inorg. Tech. Director Sandra Biezugbe, Lab Tech. Sara Molina, Lab Tech.

10.0

DL = Diluted out N/A = Not Applicable RL = Reporting Limit

TOTAL, C6-C35

ENVIRONMENTAL LAB OF TEXAS QUALITY CONTROL REPORT

8015M

Order#: G0306129

BLANK	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
TOTAL, C6-C35-mg/kg		0005102-02			<10.0		
MS	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
TOTAL, C6-C35-mg/kg		0306116-01	0	952	898	94.3%	
MSD	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
TOTAL, C6-C35-mg/kg		0306116-01	0	952	923	97.%	2.7%
SRM	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
TOTAL, C6-C35-mg/kg	<u>, </u>	0005102-05		1000	907	90.7%	

CLIENT NAME:		SITE MANAGER:	PA	RAMETERS/METH	HOD NUMBER	CHAIN	OF-CUSTODY RECORD
Teraro		Lindy Lowin					
PROJECT NO.: <i>D - D1DD</i>		PROJECT NAMÉ: MCL'INPU	NTAINERS				X tes, Inc. Fax: 915-687-0456 al Consultants 915-687-0901
PAGE / OF /	LAB. P	#0	608 DE COI			507 N. Marie	nfeld, Ste. 202 • Midland, TX 79701
105 2011 31111 31111 31111	OTHER	SAMPLE IDENTIFICATION	ACL NOWBER			LAB. I.D. NUMBER (LAB USE ONLY)	REMARKS (I.E., FILTERED, UNFILTERED, PRESERVED, UNPRESERVED, GRAB COMPOSITE)
3/31/03 1055 1		55-38 (8.5')				0306129-01	
(
SAMPLED BY: (Signature)	-	DATE: 3/2/23 RELINQUISHE TIME: 1055	ED BY: (Signatu	re)	DATE: TIME:	RECEIVED BY: (Signa	ure) DATE: TIME:
RELINACUISHED BY (Signature)		DATE: 3/31/03 RECEIVED BY:	: (Signature)		DATE:	SAMPLE SHIPPED BY	(Circle)
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APPENDIX D

PHOTOGRAPHS



1. View to north. Installation of soil boring BH-13. Stockpiled soil to right in photo.



2.

View to south. Installation of soil boring BH-13. Stockpiled soil to left in photo.



3. View to south of excavation immediately north of Hole #2.



4. View to southwest of excavation immediately north of Hole #2.



5. View to southwest of excavation immediately north of Hole #2.



6. View to northeast of north end of excavation.



7. View to north of Hole #1 and Hole #2 extended to the north.



8. View to north of Hole #1 and Hole #2 extended to the north.