

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

State of New Mexico  
Energy Minerals and Natural Resources

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

Form C-141  
Revised October 10, 2003

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

**Release Notification and Corrective Action**

30-015-25758

**OPERATOR**

Initial Report  Final Report

Name of Company	ConocoPhillips Company	Contact	Jesse A. Sosa
Address	3300 N. "A" St., Bldg. 6 #247, Midland, TX 79705-5	Telephone No.	505-391-3125
Facility Name	James A State Well #3	Facility Type	Water Injection Site
Surface Owner	State	Mineral Owner	ConocoPhillips
		Lease No.	K-3271

**LOCATION OF RELEASE**

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
K	2	22S	30E	1980	South	1980	West	Eddy

Latitude\_N 32.419351 Longitude W103.853893

**NATURE OF RELEASE**

Type of Release	Produced Water	Volume of Release	19 bbls	Volume Recovered	0 bbl
Source of Release	steel line	Date and Hour of Occurrence	6-07-2007, 2:00 pm	Date and Hour of Discovery	06-07-2007 6:30 am
Was Immediate Notice Given?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Required	If YES, To Whom?	NA		
By Whom?	NA	Date and Hour	NA		
Was a Watercourse Reached?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.	NA		
If a Watercourse was Impacted, Describe Fully.* NA					
Describe Cause of Problem and Remedial Action Taken.* The leak was in a 2" steel 45. The line was shut in for repair. No produced water was recovered.					
Describe Area Affected and Cleanup Action Taken.* See attached request for closure report.					

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

Signature: Charles Durrett	<small>Digitally signed by Charles Durrett DN: cn=Charles Durrett, ou=TETRA TECH ou=Midland, TX, email=Charles.Durrett@tetratech.com, c=US Date: 2008.09.12 10:18:05 -05'00'</small>	<b>OIL CONSERVATION DIVISION</b>	
Printed Name: Charles Durrett	Approved by District Supervisor: <i>T Gunn by SB</i>		
Title: Tetra Tech Authorized Agent of ConocoPhillips	Approval Date: 10-24-08	Expiration Date: N/A	
E-mail Address: charles.durrett@tetratech.com	Conditions of Approval: N/A		Attached <input type="checkbox"/> N/A
Date: 9/12/2008	Phone: 432-686-8081		

\* Attach Additional Sheets If Necessary



1910 N. Big Spring.  
Midland, Texas 79705  
(432) 686-8081

## TETRA TECH, INC.

September 12, 2008

Mr. Gerry Guye  
New Mexico Oil Conservation Division  
1301 W. Grand Ave  
Carlsbad, NM 88220

RE: James A State #3 Findings Report  
Eddy County, New Mexico  
Unit K, Sec. 2, T22S, R30E  
API No. 30-015-25758  
Request for Closure

Dear Mr. Guye:

On behalf of ConocoPhillips, Tetra Tech, Inc. (Tetra Tech) is submitting this report describing actions taken to remediate soils at ConocoPhillips' Cabin Lake Unit, James A State #3 produced water release site (Site; Figure 1). This work is in support of ConocoPhillips' efforts to restore the area that was affected by the release of 19 barrels of produced water at the Site (C141 attached; Figure 2). The Site is located below the Livingston Ridge, approximately 21.8 miles east of Carlsbad in Eddy County, New Mexico (30° 25.153N, 103° 51.197W). The State of New Mexico is the land administrator.

Depth to water in the vicinity of the Site is over 100 feet below ground surface (fbgs). This interpretation is based on groundwater data from the New Mexico Office of State Engineer's database and from the United States Geological Survey's database.<sup>1, 2</sup> The nearest depth to water measurement is from a water well located approximately 1.4 miles to the north-northeast and is at 125 fbgs. Depth to water at a water well located approximately 3.3 miles to the southwest is 262 fbgs. The U.S. Geological Survey, 1984 topographic map, 1:24,000 scale, entitled "LIVINGSTON RIDGE, NEW MEXICO" identifies a ranch house approximately 1.5 miles west of the Site and a potash mine approximately 4.4 miles west of the Site. No information is available on the depth of water at either of these locations. The nearest surface water body is Red Lake, located approximately 3.25 miles northwest of the Site.

### SCOPE OF WORK

Activities were conducted in accordance with NMOCD approved work plan dated November 20, 2007 at the Site from January 9, 2008 through August 15, 2008. The work included:

1. Soil in the area was excavated to remove the most highly affected chloride soils. This soil was hauled to a State approved disposal facility.

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<sup>1</sup> New Mexico Office of State Engineer. W.A.T.E.R.S. Database.

<sup>2</sup> United States Geological Survey. Groundwater Levels for the Nation Database.

2. Aliquot soil samples were collected in a "W" pattern, composited into one sample for each sidewall and floor of the excavation in the undisturbed area. The composite samples were submitted at a laboratory for chloride confirmation that this constituent has been removed.
3. Soil in the disturbed area were excavated to a depth of 3 feet and hauled to a State approved disposal location. After the excavation sidewalls were excavated to the living vegetation line, aliquot soil samples were collected from the excavation side walls, composited into one sample for each sidewall and submitted at a laboratory for chloride confirmation that this constituent has been removed to concentrations below 1,000 mg/Kg. Clean sand free of rocks were backfilled into the excavation to a depth of 0.5-inches on the sides and one foot in the center to slightly dome the surface and prevent contact of the membrane directly with chloride impacted soils. The slight doming of the sand beneath a "liner" material to promote lateral drainage off of the geo-membrane. This fill material was hand groomed by removing large sticks and smoothing the surface. A one foot deep anchor trench was constructed around the inside perimeter of the excavation and a 40-mil medium density polyethylene geo-membrane was installed over the sand fill. The membrane was cut to fit into the perimeter trench and sand was backfilled around the perimeter to hold the geo-membrane in-place. An additional one foot of sand with no rocks or debris will be backfilled over the membrane. Subsequently, clean cliché/soil was used to backfill the excavation to meet surrounding surface grades which completes the remediation. Four carsonite markers were set at the corners of the remediation area notifying interested parties that a subsurface structure was in-place. The inscription on each marker would read "CAUTION, SUBSURFACE STRUCTURE, Call Before Digging, MCA Unit 575-393-0130."
4. Clean backfill was placed into the undisturbed area excavation with depths ranging up to approximately 9-feet. Photographs were taken to document the excavation at the Site (Photo Log).

## FINDINGS

Excavations advanced during the investigation at the Site encountered two different soil conditions. Soils in undisturbed location consisted of yellowish-red loamy fine sandy soils. The sub-soil was yellowish-red to dark reddish brown, fine sand about 6 feet thick. The underlying unit was cliché interbedded with sand. Disturbed soil, second condition, included a reclaimed historic production pit. Black plastic fragments and material typical of production pits were encounter in this area.

Confirmation analyses for chlorides are presented in Table 1 and in the Appendix. Chloride concentrations in the sidewalls and floor ranged from 314 to 535 mg/Kg in the undisturbed area. In the disturbed area chloride concentrations in the sidewalls ranged from 54 to 207 mg/Kg

**Table 1**  
**ConocoPhillips Cabin Lake Unit**  
James A State #3 Well  
Excavation Laboratory Analysis

<b>Location</b>	<b>Chloride (mg/K)</b>
<b>Undisturbed Area (1/17/2008)</b>	
Floor	314
East	322
West	535
<b>Disturbed Area Walls (9/03/2008)</b>	
North	54.6
South	207
East	182
West	110

mg/K = milligrams per kilogram

## CONCLUSIONS

Approximately 3,000 cubic yards of soil were removed from the James A State #3 well produced water release site and hauled to CRI-Midway for disposal. Clean material was returned from CRI-Midway and was used as backfill.

In Tetra Tech's Findings Report, submitted on October 12, 2007 and an information memo dated November 15, 2007, groundwater in the area was described as being greater than 100 feet below ground surface (fbgs). In the November 15, 2007 information memo, both chloride screening and laboratory analyses indicated chloride concentrations in the affected area attenuate with depth. It is not anticipated that chloride in the produced water affected soil left in place will reach groundwater in any appreciable amount to impact the water.

## RECOMMENDATIONS

Based on the work performed at this Site, Tetra Tech recommends no further action. Upon your review and approval of this report, Tetra Tech on behalf of ConocoPhillips, requests closure for 2RP API No. 30-015-25758. If you have any questions or need additional information, please call Mr. Jesse Sosa (ConocoPhillips, 505-391-3126) or me.

Sincerely,

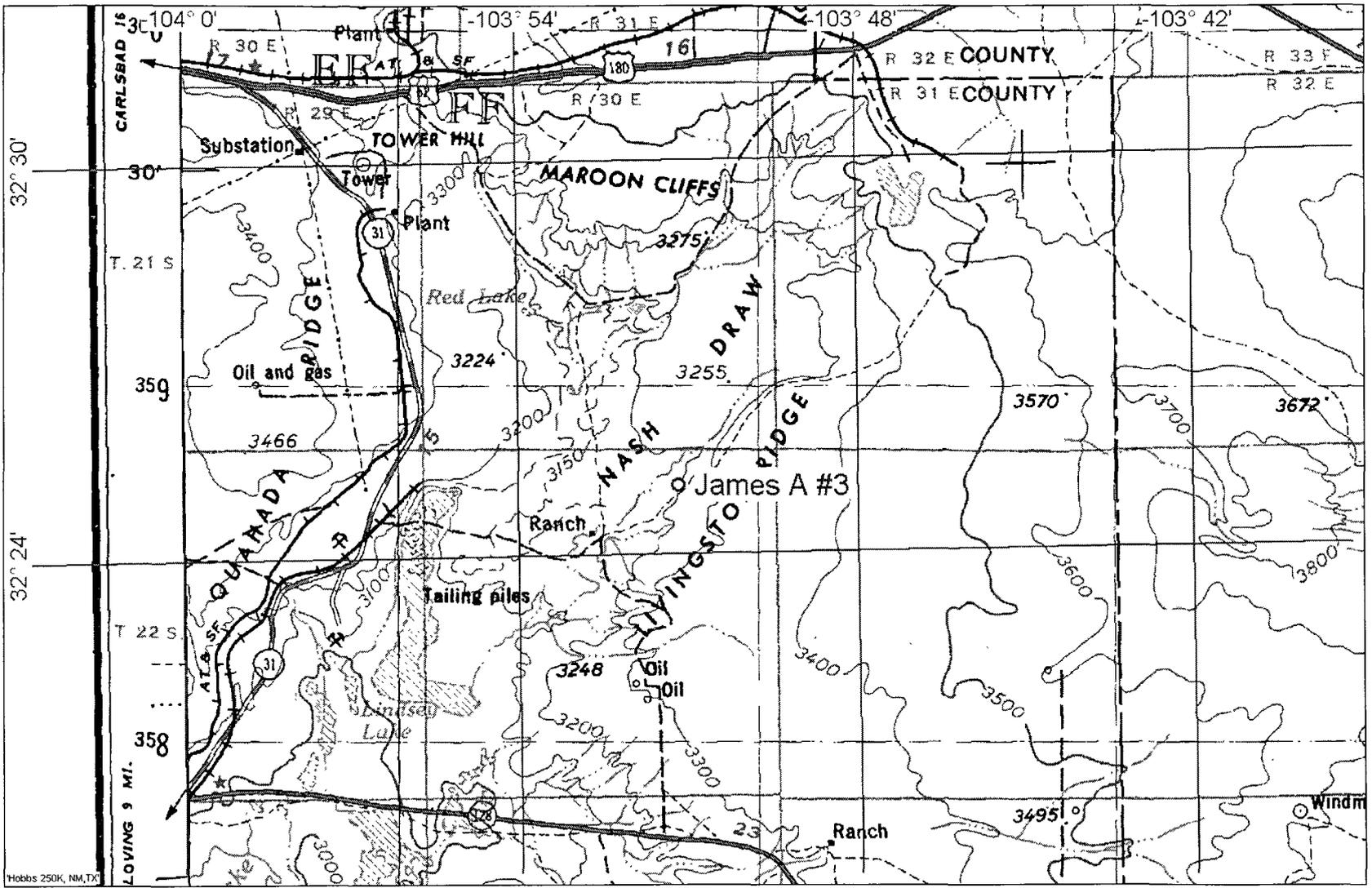
Charles  
Durrett

Digitally signed by Charles Durrett  
DN: cn=Charles Durrett, o=TETRA  
TECH, ou=Midland TX, email=Charles.  
Durrett@TetraTech.com, c=US  
Date: 2008.09.12.10:33:23 -0500

**Tetra Tech, Inc.**  
Charles Durrett  
Project Manager

Cc. Mr. Jesse Sosa, ConocoPhillips

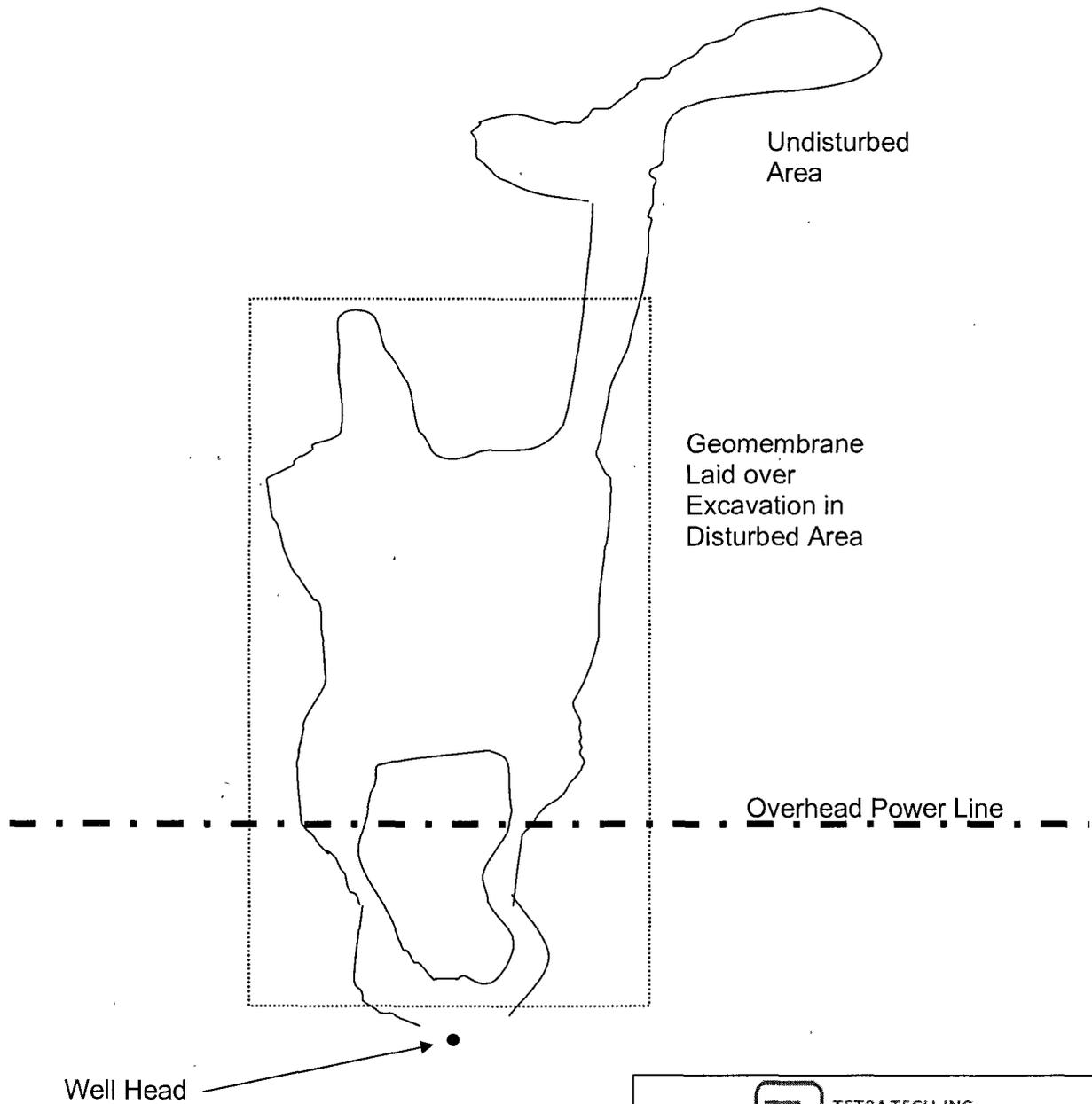




Source: USGS. 1954. Hobbs, New Mexico; Texas Topographic Map 250,000 scale

 TETRA TECH, INC.	
	Cabin Lake Unit
Figure 1. James A #3 Well Produced Water Release Site	

Not to Scale



 TETRA TECH, INC.	
	Cabin Lake Unit
<b>Figure 2.</b> James A #3 Foot Print of Produced Water Release and Remediation Area	

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State of New Mexico  
Energy Minerals and Natural Resources

API NO 30-015-25758

Form C-141  
Revised October 10, 2003



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

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District Office in accordance  
with Rule 116 on back  
side of form

30-015-25758

**Release Notification and Corrective Action**

**OPERATOR**

Initial Report  Final Report

Name of Company <b>ConocoPhillips Company</b>	Contact <b>Jesse A. Sosa</b>
Address <b>3300 N. "A" St., Bldg. 6 #247 Midland, TX 79705-5</b>	Telephone No. <b>(505)391-3126</b>
Facility Name <b>James A State well # 3</b>	Facility Type <b>Water Injection</b>
Surface Owner <b>KENNETH SMITH INC</b>	Mineral Owner <b>ConocoPhillips</b>
Lease No. <b>K-3271</b>	

**LOCATION OF RELEASE**

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
K	2	22 South	30 East	1980	South	1980	West	Eddy

Latitude 30 25.153 N Longitude 103 51.197 W

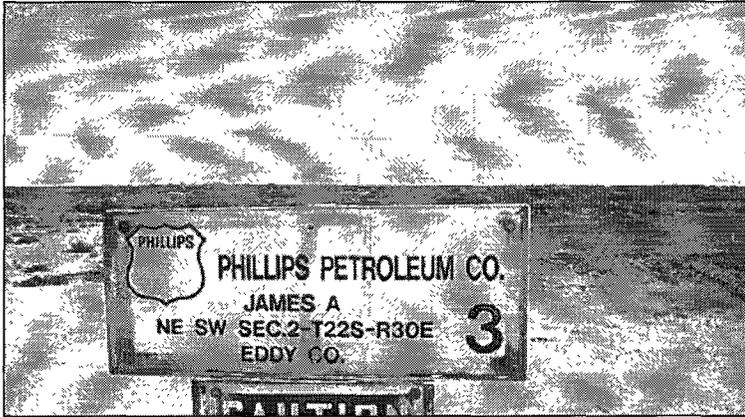
**NATURE OF RELEASE**

Type of Release <b>Produced Water</b>	Volume of Release <b>19 BBLs</b>	Volume Recovered <b>0 BBLs</b>
Source of Release <b>2" Steel line</b>	Date and Hour of Occurrence <b>6/6/07 6:30 am</b>	Date and Hour of Discovery <b>6/6/07 6:30 am</b>
Was Immediate Notice Given? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Required	If YES, To Whom? NA	
By Whom? <b>NA</b>	Date and Hour <b>NA</b>	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse. NA	
If a Watercourse was Impacted, Describe Fully.* NA		
Describe Cause of Problem and Remedial Action Taken.* The leak was in a 2" steel 45. The line was shut in for repair. No produced water was recovered		
Describe Area Affected and Cleanup Action Taken.* Contaminated area consists of approximately 1925 sq ft. of pasture land. The site will be delineated to determine necessary cleanup action.		
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.		
Signature:	<b>OIL CONSERVATION DIVISION</b>	
Printed Name: <b>Jesse A. Sosa</b>	Approved by District Supervisor:	
Title: <b>HSER Lead</b>	Approval Date: <b>AUG 7 2007</b>	Expiration Date:
E-mail Address: <b>Jesse.A.Sosa@conocophillips.com</b>	Conditions of Approval:	Attached <input type="checkbox"/>
Date: <b>06/07/2007</b>	Phone: <b>(505)391-3126</b>	

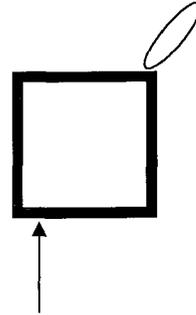
\* Attach Additional Sheets If Necessary

*Work Plan on file*

**PHOTO LOG**

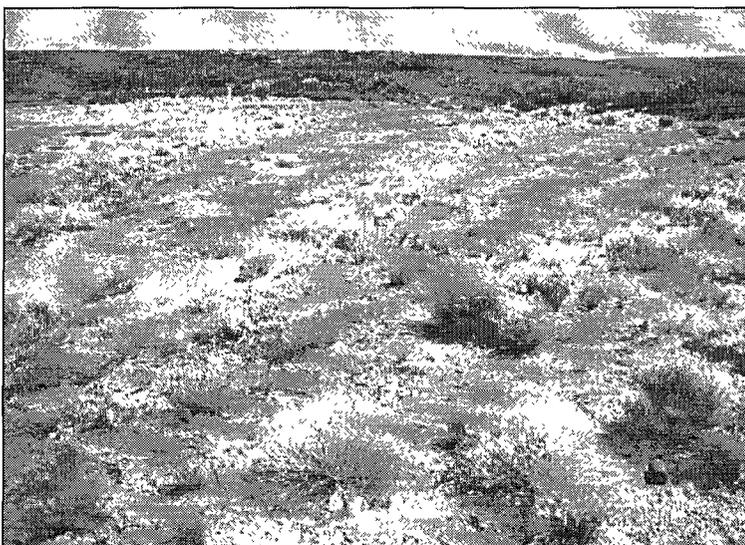
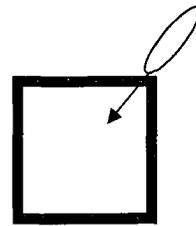


View: Site Name



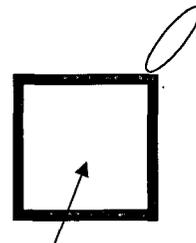
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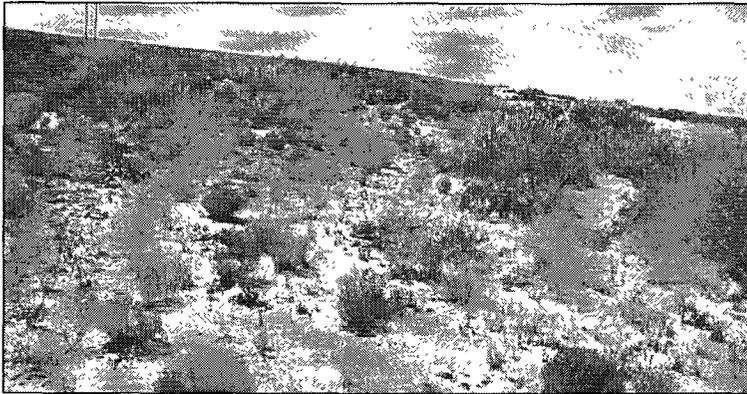
View: Southwest



Before Remediation

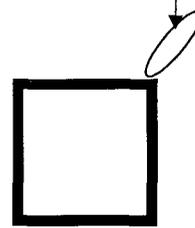
View: Northeast





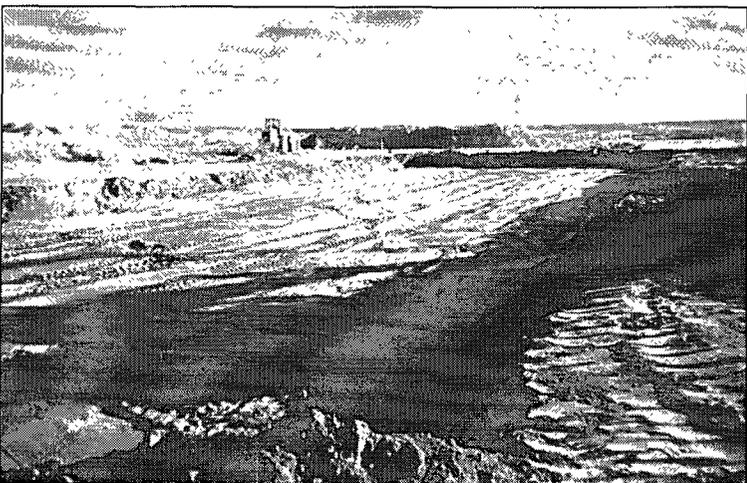
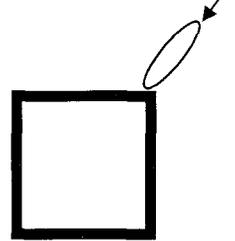
**Before Remediation**

**View: South**



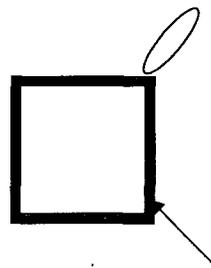
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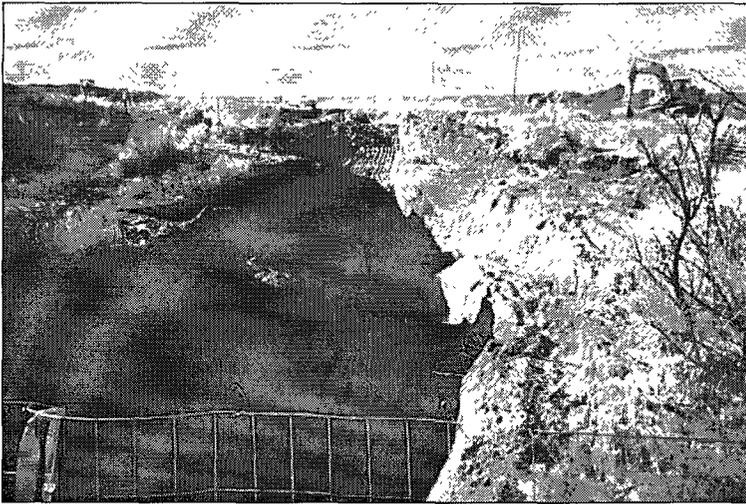
**View: Southwest**



**During Remediation**  
Excavation

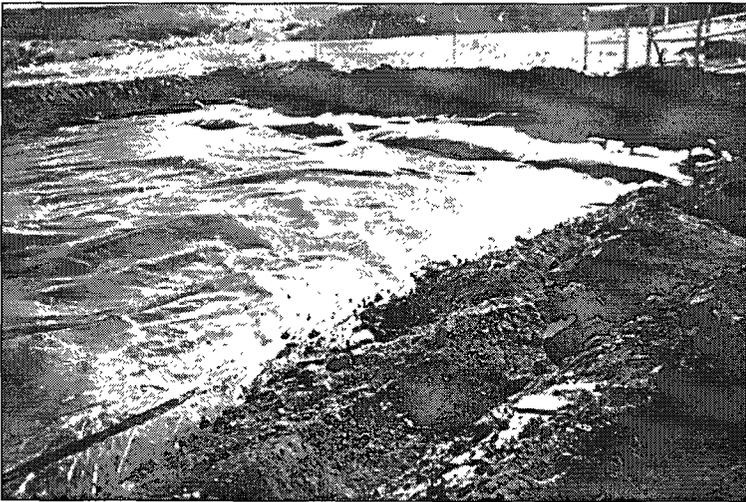
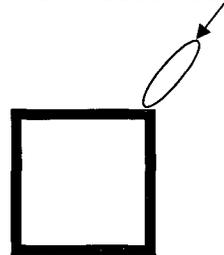
**View: Southeast**





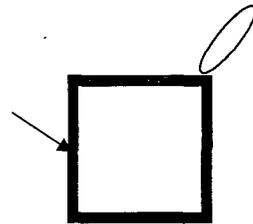
**During Remediation**  
Excavation

**View:** Southwest



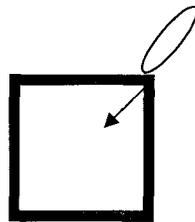
**During Remediation**  
Geomembrane

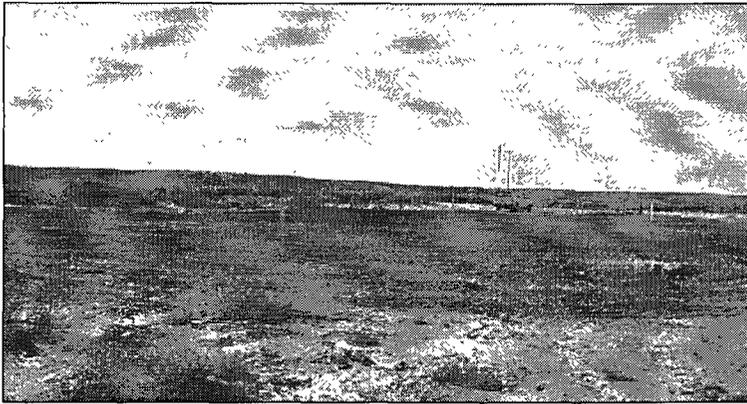
**View:** Southeast



**During Remediation**  
Backfill

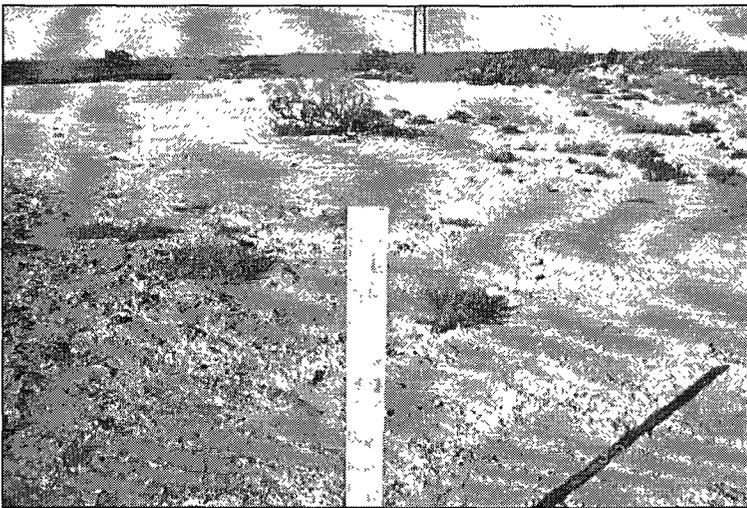
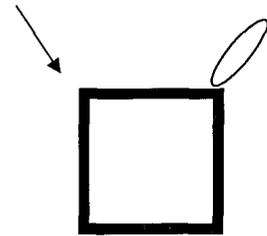
**View:** Southwest





After Remediation  
Perimeter Signs

View: Southeast



**APPENDIX**

Laboratory Analyses

Lancaster Laboratory

Xenco Laboratory



# Analysis Report

2425 New Holland Pike PO Box 12425, Lancaster, PA 17605-2425 • 717-656 2300 Fax: 717-656 2681 • www.lancasterlabs.com

## ANALYTICAL RESULTS

Prepared for:

ConocoPhillips  
1410 N. West Country Rd.  
Hobbs NM 88240

505-391-3126

Prepared by:

Lancaster Laboratories  
2425 New Holland Pike  
Lancaster, PA 17605-2425

## SAMPLE GROUP

The sample group for this submittal is 1073210. Samples arrived at the laboratory on Tuesday, January 15, 2008. The PO# for this group is 4769349 and the release number is SOSA.

### Client Description

NTrench West Side Composite Soil Sample  
NTrench East Side Composite Soil Sample  
NTrench Floor Composite Soil Sample

### Lancaster Labs Number

5256350  
5256351  
5256352

1 COPY TO

Tetra Tech, Inc.

Attn: Charles Durrett

Questions? Contact your Client Services Representative  
Barbara A Weyandt at (717) 656-2300

Respectfully Submitted,



Robert Heisey  
Senior Specialist

**Lancaster Laboratories Sample No. 5256350 SW      Group No. 1073210**
**NTrench West Side Composite Soil Sample  
James A State #3-Carlsbad, NM**

Collected: 01/11/2008 13:00      by HLB

Account Number: 12402

Submitted: 01/15/2008 09:15

ConocoPhillips

Reported: 01/17/2008 at 14:13

1410 N. West Country Rd.

Discard: 02/17/2008

Hobbs NM 88240

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Units	Dilution Factor
02111	Moisture	n.a.	5.2	1.0	1.0	%	1
"Moisture" represents the loss in weight of the sample after drying with an infrared lamp at 150 degrees Celsius.							
07333	Chloride by IC (solid)	16887-00-6	535.	63.3	84.4	mg/kg	20

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

### Laboratory Chronicle

CAT No.	Analysis Name	Method	Analysis		Analyst	Dilution Factor
			Trial#	Date and Time		
02111	Moisture	SM20 2540 G	1	01/16/2008 07:16	Nancy J Shoop	1
07333	Chloride by IC (solid)	EPA 300.0	1	01/16/2008 15:45	Ashley M Heckman	20
01352	Deionized Water Extraction	EPA 300.0	1	01/16/2008 10:25	Nancy J Shoop	1

\*=This limit was used in the evaluation of the final result

Lancaster Laboratories Sample No. 5256351 SW      Group No. 1073210

 NTrench East Side Composite Soil Sample  
 James A State #3-Carlsbad, NM

Collected: 01/11/2008 14:00      by HLB

Account Number: 12402

 Submitted: 01/15/2008 09:15  
 Reported: 01/17/2008 at 14:13  
 Discard: 02/17/2008

 ConocoPhillips  
 1410 N. West Country Rd  
 Hobbs NM 88240

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Units	Dilution Factor
02111	Moisture "Moisture" represents the loss in weight of the sample after drying with an infrared lamp at 150 degrees Celsius	n a	4.6	1.0	1.0	%	1
07333	Chloride by IC (solid)	16887-00-6	322	31.4	41.9	mg/kg	10

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples

### Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
02111	Moisture	SM20 2540 G	1	01/16/2008 07:22	Nancy J Shoop	1
07333	Chloride by IC (solid)	EPA 300.0	1	01/16/2008 16:31	Ashley M Heckman	10
01352	Deionized Water Extraction	EPA 300.0	1	01/16/2008 10:25	Nancy J Shoop	1

\*=This limit was used in the evaluation of the final result



# Analysis Report

2425 New Holland Pike, PO Box 12425, Lancaster PA 17605-2425 • 717-656-2300 Fax 717-656-2681 • www.lancasterlabs.com

Page 1 of 1

Lancaster Laboratories Sample No. 5256352 SW      Group No. 1073210

NTrench Floor Composite Soil Sample  
James A State #3-Carlsbad, NM

Collected 01/11/2008 15:00      by HLB      Account Number. 12402  
Submitted 01/15/2008 09:15      ConocoPhillips  
Reported 01/17/2008 at 14:13      1410 N. West Country Rd  
Discard 02/17/2008      Hobbs NM 88240

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Units	Dilution Factor
02111	Moisture	n.a	18.9	1.0	1.0	%	1
*Moisture represents the loss in weight of the sample after drying with an infrared lamp at 150 degrees Celsius							
07333	Chloride by IC (solid)	16887-00-6	314	37.0	49.3	mg/kg	10

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples

## Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis		Analyst	Dilution Factor
				Date	Time		
02111	Moisture	SM20 2540 G	1	01/16/2008	07:37	Nancy J Shoop	1
07333	Chloride by IC (solid)	EPA 300.0	1	01/16/2008	16:47	Ashley M Heckman	10
01352	Deionized Water Extraction	EPA 300.0	1	01/16/2008	10:25	Nancy J Shoop	1

\*=This limit was used in the evaluation of the final result

## Quality Control Summary

 Client Name: ConocoPhillips  
 Reported: 01/17/08 at 02:13 PM

Group Number: 1073210

Matrix QC may not be reported if site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

### Laboratory Compliance Quality Control

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank MDL**</u>	<u>Blank LOQ</u>	<u>Report Units</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>LCS/LCSD Limits</u>	<u>RPD</u>	<u>RPD_Max</u>
Batch number 08016016201A Chloride by IC (solid)	N D	3.0	4.0	mg/kg	103		90-110		
Batch number 08016912201A Moisture					99		98-103		

### Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike  
 Background (BKG) = the sample used in conjunction with the duplicate

<u>Analysis Name</u>	<u>MS %REC</u>	<u>MSD %REC</u>	<u>MS/MSD Limits</u>	<u>RPD</u>	<u>RPD MAX</u>	<u>BKG Conc</u>	<u>DUP Conc</u>	<u>DUP RPD</u>	<u>Dup RPD Max</u>
Batch number 08016016201A Chloride by IC (solid)	174	(2)	90-110	UNSPK	508	5256350	BKG 5256350	5	11
Batch number 08016912201A Moisture				BKG	5.2	5256350	5.2	0	5

\*- Outside of specification

\*\* - This limit was used in the evaluation of the final result for the blank

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.

# ConocoPhillips Analysis Request/Chain of Custody



For Lancaster Labs Use ONLY Acct. #: 11288 Group # 1073210 Sample#: 5256 <sup>350-52</sup> ~~66A#~~

009039 *ConocoPhillips Business Unit*

Analyses Requested List total number of containers in the box under each analysis.

**Preservative Codes**  
 H = HCl      T = Thiosulfate  
 N = HNO<sub>3</sub>    B = NaOH  
 S = H<sub>2</sub>SO<sub>4</sub>   O = Other

Site #: James A State Well 3 <sup>Chart #</sup> 4769349  
 Site City: Carlsbad State: NM  
 Enfos PO: ConocoPhillips 1410N County Rd Hobbs NM 88240  
 ConocoPhillips PM: Jesse Sasso 505-391-3126  
 Samplers Name: HL Brooks

Matrix	Preservation Codes											
	H	N	S	T	B	O						
Soil												
Water												
Oil												
Air												

Sample Identification	Date Collected	Time Collected	Grab	Composite	Soil	Water	Oil	Air	Remarks
<u>N trench West Side</u>	<u>1-11-08</u>	<u>1300</u>			<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			
<u>N trench East Side</u>	<u>1-11-08</u>	<u>1400</u>			<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			
<u>N trench floor</u>	<u>1-11-08</u>	<u>1500</u>			<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			

**Consultant Information:**  
 Office City: Midland State: TX  
 Project Manager: Charles Durnett  
 Phone Number: 322-666-8081 Fax: \_\_\_\_\_  
 Email: charles.durnett@ctctech.com

**Turnaround Time Requested in Business Days (TAT) (Circle One):**  
 STD. 5 day 48 hour 24 hour Other \_\_\_\_\_

Relinquished by: <u>[Signature]</u>	Date	Time	Received by:	Date	Time
Relinquished by: <u>[Signature]</u>	Date	Time	Received by:	Date	Time
Relinquished by:	Date	Time	Received by:	Date	Time
			<u>Deborah Hestland</u>	<u>1/15/08</u>	<u>0915</u>

Electronic Data Deliverables (Circle One) Yes No Format pdf

**Reporting Requirements (Circle One)**  
 Standard Reports/QC Summary Full Validation (LLI Type I)  
 NJ Regulatory NJ Reduced NY ASP-A NY ASP-B Other NM

Relinquished by Commercial Carrier:  
 UPS \_\_\_\_\_ FedEx X Other \_\_\_\_\_  
 Temperature Upon Receipt 3.3 °C

## Lancaster Laboratories Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

<b>N.D.</b>	none detected	<b>BMQL</b>	Below Minimum Quantitation Level
<b>TNTC</b>	Too Numerous To Count	<b>MPN</b>	Most Probable Number
<b>IU</b>	International Units	<b>CP Units</b>	cobalt-chloroplatinate units
<b>umhos/cm</b>	micromhos/cm	<b>NTU</b>	nephelometric turbidity units
<b>C</b>	degrees Celsius	<b>F</b>	degrees Fahrenheit
<b>Cal</b>	(diet) calories	<b>lb.</b>	pound(s)
<b>meq</b>	milliequivalents	<b>kg</b>	kilogram(s)
<b>g</b>	gram(s)	<b>mg</b>	milligram(s)
<b>ug</b>	microgram(s)	<b>l</b>	liter(s)
<b>ml</b>	milliliter(s)	<b>ul</b>	microliter(s)
<b>m3</b>	cubic meter(s)	<b>fib &gt;5 um/ml</b>	fibers greater than 5 microns in length per ml
<b>&lt;</b>	less than – The number following the sign is the <u>limit of quantitation</u> , the smallest amount of analyte which can be reliably determined using this specific test.		
<b>&gt;</b>	greater than		
<b>ppm</b>	parts per million – One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.		
<b>ppb</b>	parts per billion		
<b>Dry weight basis</b>	Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture.		

U.S. EPA data qualifiers:

### Organic Qualifiers

<b>A</b>	TIC is a possible aldol-condensation product
<b>B</b>	Analyte was also detected in the blank
<b>C</b>	Pesticide result confirmed by GC/MS
<b>D</b>	Compound quantitated on a diluted sample
<b>E</b>	Concentration exceeds the calibration range of the instrument
<b>J</b>	Estimated value
<b>N</b>	Presumptive evidence of a compound (TICs only)
<b>P</b>	Concentration difference between primary and confirmation columns >25%
<b>U</b>	Compound was not detected
<b>X,Y,Z</b>	Defined in case narrative

### Inorganic Qualifiers

<b>B</b>	Value is <CRDL, but ≥IDL
<b>E</b>	Estimated due to interference
<b>M</b>	Duplicate injection precision not met
<b>N</b>	Spike amount not within control limits
<b>S</b>	Method of standard additions (MSA) used for calculation
<b>U</b>	Compound was not detected
<b>W</b>	Post digestion spike out of control limits
<b>*</b>	Duplicate analysis not within control limits
<b>+</b>	Correlation coefficient for MSA <0.995

Analytical test results for methods listed on the laboratories' accreditation scope meet all requirements of NELAC unless otherwise noted under the individual analysis.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

**WARRANTY AND LIMITS OF LIABILITY** – In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. THE FOREGOING EXPRESS WARRANTY IS EXCLUSIVE AND IS GIVEN IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. WE DISCLAIM ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING A WARRANTY OF FITNESS FOR PARTICULAR PURPOSE AND WARRANTY OF MERCHANTABILITY. IN NO EVENT SHALL LANCASTER LABORATORIES BE LIABLE FOR INDIRECT, SPECIAL, CONSEQUENTIAL, OR INCIDENTAL DAMAGES INCLUDING, BUT NOT LIMITED TO, DAMAGES FOR LOSS OF PROFIT OR GOODWILL REGARDLESS OF (A) THE NEGLIGENCE (EITHER SOLE OR CONCURRENT) OF LANCASTER LABORATORIES AND (B) WHETHER LANCASTER LABORATORIES HAS BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. We accept no legal responsibility for the purposes for which the client uses the test results. No purchase order or other order for work shall be accepted by Lancaster Laboratories which includes any conditions that vary from the Standard Terms and Conditions of Lancaster Laboratories and we hereby object to any conflicting terms contained in any acceptance or order submitted by client.

# **Analytical Report 311673**

**for**

**Tetra Tech- Midland**

**Project Manager: Charles Durrett**

**James A**

**8640015**

**05-SEP-08**



**E84880**

**12600 West I-20 East Odessa, Texas 79765**

Texas certification numbers:

Houston, TX T104704215 - Odessa/Midland, TX T104704215-08-TX

Florida certification numbers:

Houston, TX E871002 - Miami, FL E86678 - Tampa, FL E86675  
Norcross(Atlanta), GA E87429

South Carolina certification numbers:

Norcross(Atlanta), GA 98015

North Carolina certification numbers:

Norcross(Atlanta), GA 483

Houston - Dallas - San Antonio - Austin - Tampa - Miami - Latin America  
Midland - Corpus Christi - Atlanta



05-SEP-08

Project Manager: **Charles Durrett**  
**Tetra Tech- Midland**  
1703 W. Industrial Avenue  
Midland, TX 79703

Reference: XENCO Report No: **311673**  
**James A**  
Project Address:

**Charles Durrett:**

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number 311673. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. Estimation of data uncertainty for this report is found in the quality control section of this report unless otherwise noted. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

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 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 311673 will be filed for 60 days, and after that time they will be properly disposed 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).

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.

Respectfully,

**Brent Barron, II**

Odessa Laboratory Manager

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**Sample Cross Reference 311673**



**Tetra Tech- Midland, Midland, TX**

James A

<b>Sample Id</b>	<b>Matrix</b>	<b>Date Collected</b>	<b>Sample Depth</b>	<b>Lab Sample Id</b>
W Wall	S	Sep-03-08 10:30		311673-001
E Wall	S	Sep-03-08 11:00		311673-002
N Wall	S	Sep-03-08 12:00		311673-003
S Wall	S	Sep-03-08 13:00		311673-004



# Certificate of Analysis Summary 311673

Tetra Tech- Midland, Midland, TX

Project Name: James A



Project Id: 8640015

Contact: Charles Durrett

Project Location:

Date Received in Lab: Wed Sep-03-08 04 30 pm

Report Date: 05-SEP-08

Project Manager: Brent Barron, II

<i>Analysis Requested</i>	<i>Lab Id:</i>	311673-001	311673-002	311673-003	311673-004		
	<i>Field Id:</i>	W Wall	E Wall	N Wall	S Wall		
	<i>Depth:</i>						
	<i>Matrix:</i>	SOIL	SOIL	SOIL	SOIL		
	<i>Sampled:</i>	Sep-03-08 10 30	Sep-03-08 11 00	Sep-03-08 12 00	Sep-03-08 13 00		
<b>Anions by EPA 300/300.1</b>	<i>Extracted:</i>	Sep-04-08 15 21	Sep-04-08 15 21	Sep-04-08 15 21	Sep-04-08 15 21		
	<i>Analyzed:</i>						
	<i>Units/RL:</i>	mg/kg      RL	mg/kg      RL	mg/kg      RL	mg/kg      RL		
Chloride		110      10 0	182      10 0	54 6      5 00	207      10 0		

This analytical report and the entire data package it represents, has been made for your exclusive and confidential use. The interpretations and results expressed throughout this analytical report represent the best judgment of XENCO Laboratories. XENCO Laboratories assumes no responsibility and makes no warranty to the end use of the data hereby presented. Our liability is limited to the amount invoiced for this work order unless otherwise agreed to in writing.

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Brent Barron  
Odessa Laboratory Director



## Flagging Criteria

- X** In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to effect the recovery of the spike concentration. This condition could also effect the relative percent difference in the MS/MSD.
  
- B** A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.
  
- D** The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.
  
- E** The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.
  
- F** RPD exceeded lab control limits.
  
- J** The target analyte was positively identified below the MQL(PQL) and above the SQL(MDL).
  
- U** Analyte was not detected.
  
- L** The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.
  
- H** The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.
  
- K** Sample analyzed outside of recommended hold time.
  
- \* Outside XENCO'S scope of NELAC Accreditation

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9701 Harry Hines Blvd , Dallas, TX 75220	(214) 902 0300	(214) 351-9139
5332 Blackberry Drive, Suite 104, San Antonio, TX 78238	(210) 509-3334	(210) 509-3335
2505 N. Falkenburg Rd., Tampa, FL 33619	(813) 620-2000	(813) 620-2033
5757 NW 158th St, Miami Lakes, FL 33014	(305) 823-8500	(305) 823-8555
6017 Financial Dr., Norcross, GA 30071	(770) 449-8800	(770) 449-5477



# Blank Spike Recovery



**Project Name: James A**

**Work Order #: 311673**

**Project ID:**

**8640015**

**Lab Batch #: 733205**

**Sample: 733205-1-BKS**

**Matrix: Solid**

**Date Analyzed: 09/04/2008**

**Date Prepared: 09/04/2008**

**Analyst: LATCOR**

**Reporting Units: mg/kg**

**Batch #: 1**

## BLANK /BLANK SPIKE RECOVERY STUDY

Anions by EPA 300/300.1 Analytes	Blank Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Control Limits %R	Flags
Chloride	ND	10.0	10.8	108	75-125	

Blank Spike Recovery [D] = 100\*[C]/[B]

All results are based on MDL and validated for QC purposes



# Form 3 - MS Recoveries



Project Name: James A

Work Order #: 311673

Lab Batch #: 733205

Project ID: 8640015

Date Analyzed: 09/04/2008

Date Prepared: 09/04/2008

Analyst: LATCOR

QC- Sample ID: 311736-001 S

Batch #: 1

Matrix: Soil

Reporting Units: mg/kg

### MATRIX / MATRIX SPIKE RECOVERY STUDY

Inorganic Anions by EPA 300	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	%R [D]	Control Limits %R	Flag
Analytes						
Chloride	ND	100	90.8	91	75-125	

Matrix Spike Percent Recovery [D] = 100\*(C-A)/B

Relative Percent Difference [E] = 200\*(C-A)/(C+B)

All Results are based on MDL and Validated for QC Purposes



# Sample Duplicate Recovery



Project Name: James A

Work Order #: 311673

Lab Batch #: 733205

Project ID: 8640015

Date Analyzed: 09/04/2008

Date Prepared: 09/04/2008

Analyst: LATCOR

QC- Sample ID: 311736-001 D

Batch #: 1

Matrix: Soil

Reporting Units: mg/kg

## SAMPLE / SAMPLE DUPLICATE RECOVERY

Anions by EPA 300/300.1	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Analyte					
Chloride	ND	ND	NC	20	

Spike Relative Difference RPD  $200 * |(B-A)/(B+A)|$   
 All Results are based on MDL and validated for QC purposes.

# Analysis Request of Chain of Custody Record

PAGE \_\_\_\_\_ OF \_\_\_\_\_

ANALYSIS REQUEST  
(Circle or Specify Method No.)

<input type="checkbox"/>	Major Anions/Cations, pH, TDS
<input type="checkbox"/>	PLM (Asbestos)
<input type="checkbox"/>	Alpha Beta (m)
<input type="checkbox"/>	Gamma Spec
<input type="checkbox"/>	PCB's 808/808
<input type="checkbox"/>	GC MS Sdm Vol 8270/825
<input type="checkbox"/>	GC MS Vol 8240/8280/824
<input type="checkbox"/>	NCI
<input type="checkbox"/>	TCLP Volatiles
<input type="checkbox"/>	TCLP Metals Ag As Ba Cd Cr Pb Hg Se
<input type="checkbox"/>	HCHA Metals Ag As Ba Cd Cr Pb Hg Se
<input type="checkbox"/>	PAH B270
<input type="checkbox"/>	TPH 8015 MOD 1X1005 (Ext to C35)
<input type="checkbox"/>	BTEX 8021B

<input type="checkbox"/>	PH
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**Environmental Lab of Texas**  
 Variance/ Corrective Action Report- Sample Log-In

Client Tetra Tech  
 Date/ Time 9/30/08 16:30  
 Lab ID # 311673  
 Initials CIL

**Sample Receipt Checklist**

	Yes	No	Client Initials
#1 Temperature of container/ cooler?	Yes	No	-25 °C
#2 Shipping container in good condition?	Yes	No	
#3 Custody Seals intact on shipping container/ cooler?	Yes	No	Not Present
#4 Custody Seals intact on sample bottles/ container?	Yes	No	Not Present
#5 Chain of Custody present?	Yes	No	
#6 Sample instructions complete of Chain of Custody?	Yes	No	
#7 Chain of Custody signed when relinquished/ received?	Yes	No	
#8 Chain of Custody agrees with sample label(s)?	Yes	No	ID written on Cont / Lid
#9 Container label(s) legible and intact?	Yes	No	Not Applicable
#10 Sample matrix/ properties agree with Chain of Custody?	Yes	No	
#11 Containers supplied by ELOT?	Yes	No	
#12 Samples in proper container/ bottle?	Yes	No	See Below
#13 Samples properly preserved?	Yes	No	See Below
#14 Sample bottles intact?	Yes	No	
#15 Preservations documented on Chain of Custody?	Yes	No	
#16 Containers documented on Chain of Custody?	Yes	No	
#17 Sufficient sample amount for indicated test(s)?	Yes	No	See Below
#18 All samples received within sufficient hold time?	Yes	No	See Below
#19 Subcontract of sample(s)?	Yes	No	Not Applicable
#20 VOC samples have zero headspace?	Yes	No	Not Applicable

**Variance Documentation**

Contact \_\_\_\_\_ Contacted by \_\_\_\_\_ Date/ Time \_\_\_\_\_

Regarding \_\_\_\_\_

Corrective Action Taken.  
 \_\_\_\_\_  
 \_\_\_\_\_

- Check all that Apply
- See attached e-mail/ fax
  - Client understands and would like to proceed with analysis
  - Cooling process had begun shortly after sampling event