

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

OPERATOR

Initial Report Final Report

Name of Company	Chevron Midcontinent Alaska	Contact	Kim Klahsen
Address	HCR 60 Box 423 Lovington, NM 88260	Telephone No.	(575) 396-4414 x 128 or (432) 894-3298 (cell)
Facility Name	Vacuum Grayburg San Andres Satellite 3	Facility Type	Production Satellite No. 3
Trunkline			

Surface Owner:	State of NM	Mineral Owner:	State of NM	Lease No. B-155
				Well # VGSAL # 60
				APL 30 025 26282

USED CLOSEST WELL
LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
L	2	18S	34E					Lea

Latitude N 32.77492° Longitude W 103.51832°

WTR 120'

NATURE OF RELEASE

Type of Release	Oil and Produced Water	Volume of Release	44.4 bbl oil / 792 bbl produced water	Volume Recovered	Approximately 22 bbl oil / 450 bbl water (mixed w/rain)
Source of Release	Production Trunkline	Date and Hour of Occurrence	7/21/09 @ 11:12 pm	Date and Hour of Discovery	7/22/09 @ 3:00 am
Was Immediate Notice Given?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom?	Geoffrey Leking		
By Whom?	Larry Ridenour	Date and Hour	7/22/09 @ 10:11 am		
Was a Watercourse Reached?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.			

If a Watercourse was Impacted, Describe Fully.*

Describe Cause of Problem and Remedial Action Taken.*

Failure of a 6" fiberglass nipple pulled out a ninety degree elbow caused the release at the trunkline. All wells were shut in, isolation valves were closed and a vacuum truck called to the site following a severe rainstorm. Estimated rainfall during the storm was 2".

Describe Area Affected and Cleanup Action Taken.*

Visibly impacted soil was removed from an area covering approximately 37,516 square feet and disposed at an NMOCD approved facility. Soil samples were collected on 8/4/09 and 9/28/09. Additional soil was excavated and removed from the site, until further sampling confirmed that chloride concentrations were below 1,000 mg/kg. A Remediation Report is attached that provides detailed information of the remediation.

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:	<i>Kim Klahsen</i>	OIL CONSERVATION DIVISION	
Printed Name:	Kim Klahsen	Approved by District Supervisor:	<i>[Signature]</i> ENVIRONMENTAL ENGINEER
Title:	HES Specialist	Approval Date:	11.5.10
E-mail Address:	KDKL@chevron.com	Expiration Date:	
Date:	10/13/10	Conditions of Approval:	
Phone:	(432) 894-3298	Attached	<input type="checkbox"/>

(RP 11-10-2641)

* Attach Additional Sheets If Necessary

*n LWS 1036951059
PLWS 1036951687*

RECEIVED

OCT 20 2010

HOBBSOCD



October 13, 2010

Mr. Larry Johnson
Environmental Engineer
Oil Conservation Division
New Mexico Energy, Minerals and Natural Resources Department
1625 N. French Drive
Hobbs, New Mexico 88240

**Re: Spill Remediation Report,
Chevron MidContinent Alaska,
Vacuum Grayburg San Andres Satellite #3 Trunkline,
Unit Letter L (NW/4, SW/4), Section 2, Township 18 South, Range 34 East,
Lea County, New Mexico
(Latitude: N 32.77492° / Longitude: W 103.51832°)**

Dear Mr. Johnson:

Chevron MidContinent Alaska (Chevron) has retained Crain Environmental (Crain) to remediate impacts to soil from a leak at the Vacuum Grayburg San Andres Satellite #3 Trunkline. The pipeline is located in the northwest quarter (NW/4) of the southwest quarter (SW/4), Section 2, Township 18 South, Range 34 East, Lea County, New Mexico (Site). Approximately 44 barrels of oil and 792 barrels of water were released in July of 2009. A C-141 was submitted to the New Mexico Oil Conservation Division (NMOCD) on July 22, 2009. Figure 1 shows the site location.

Initial Investigation

Visibly impacted soil was scraped from the spill area and disposed at an NMOCD approved disposal facility. On August 4, 2009, Ocotillo collected twelve (12) soil samples (SS-1 through SS-12) from the surface of the scraped spill area measuring approximately 477 feet x 410 feet, and submitted them to Xenco Laboratories (Xenco) in Odessa, Texas for chloride analysis. Figure 2 shows the sample point locations. Table 1 provides a summary of the laboratory analyses. Appendix A provides laboratory and chain of custody documentation.

Referring to Table 1, soil samples collected at points SS-2, SS-3, SS-8, SS-9, SS-11 and SS-12 reported chloride concentrations below 1,000 mg/kg, and needed no further remediation. The soil sample collected at point SS-4 was deemed to be located inside the reserve drilling pit, and would also require no further remedial action.

On September 28, 2009, additional soil samples were collected with a backhoe at the sample point SS-1, SS-5, SS-6, SS-7 and SS-10 locations. Soil samples were also collected at nine (9) locations (SS-12 through SS-20) in order to provide vertical and horizontal delineation of the spill area. All samples were submitted to Xenco for chloride analysis. Figure 2 shows the sample point locations. Table 1 provides a summary of the laboratory analyses. Appendix A provides laboratory and chain of custody documentation.

Referring to Table 1, chloride concentrations were reported less than 1,000 mg/kg in sample SS-5 at a depth of three (3) feet bgs (337 mg/kg), in SS-6 at one (1) foot bgs (140 mg/kg), in SS-7 at two (2) feet bgs (760 mg/kg), in SS-10 at one (1) foot bgs (124 mg/kg), in SS-12 at one (1) foot bgs (494 mg/kg), and in sample points SS-13 through SS-20 at the surface (0-6").

Samples collected at sample point SS-1 reported chloride concentrations above 1,000 mg/kg to a depth of five (5) feet bgs.

Based on published literature (1961), well records of the New Mexico State Engineer, and well records of the United States Geological Survey, groundwater occurs at approximately 135 feet bgs in the well located nearest the Site. No domestic water wells are located within 1,000 feet of the site. The NMOCD has established recommended remediation action levels (RRALs) for benzene, total BTEX and TPH resulting from spills of natural gas liquids ("Guidelines for Remediation of Leaks, Spills and Releases, August 13, 1993"). Remediation levels for benzene, total BTEX and TPH were calculated using the following NMOCD criteria:

Criteria	Result	Ranking Score
Depth-to-Groundwater	>100 Feet	0
Wellhead Protection Area	No	0
Distance to Surface Water Body	>1000 Horizontal Feet	0
		Total: 0

The following RRALs have been assigned based on NMOCD criteria:

Benzene **10 mg/kg**
Total BTEX **50 mg/kg**
TPH **5,000 mg/kg**

Remediation

Excavation was conducted at the spill area, removing and disposing of at least one (1) foot of impacted soil from the areas surrounding sample points SS-6, SS-10 and SS-12 (9-28-09 sample location). At least two (2) feet of soil was excavated and disposed from the area surrounding sample point SS-7, at least three (3) feet of soil was excavated and disposed from the area surrounding sample point SS-5, and at least seven (7) feet of soil was excavated and disposed from the area surrounding sample point SS-7.

As all final samples reported concentrations below the remediation levels, a final C-141 has been completed and is attached as the last page of this report. Chevron appreciates your assistance in the closure of this project.

If you have any questions or need additional information, please call Kim Klahsen at (432) 894-3298 or myself at (575) 441-7244. We may also be reached by email at kdkl@chevron.com or Cindy.Crain@gmail.com.

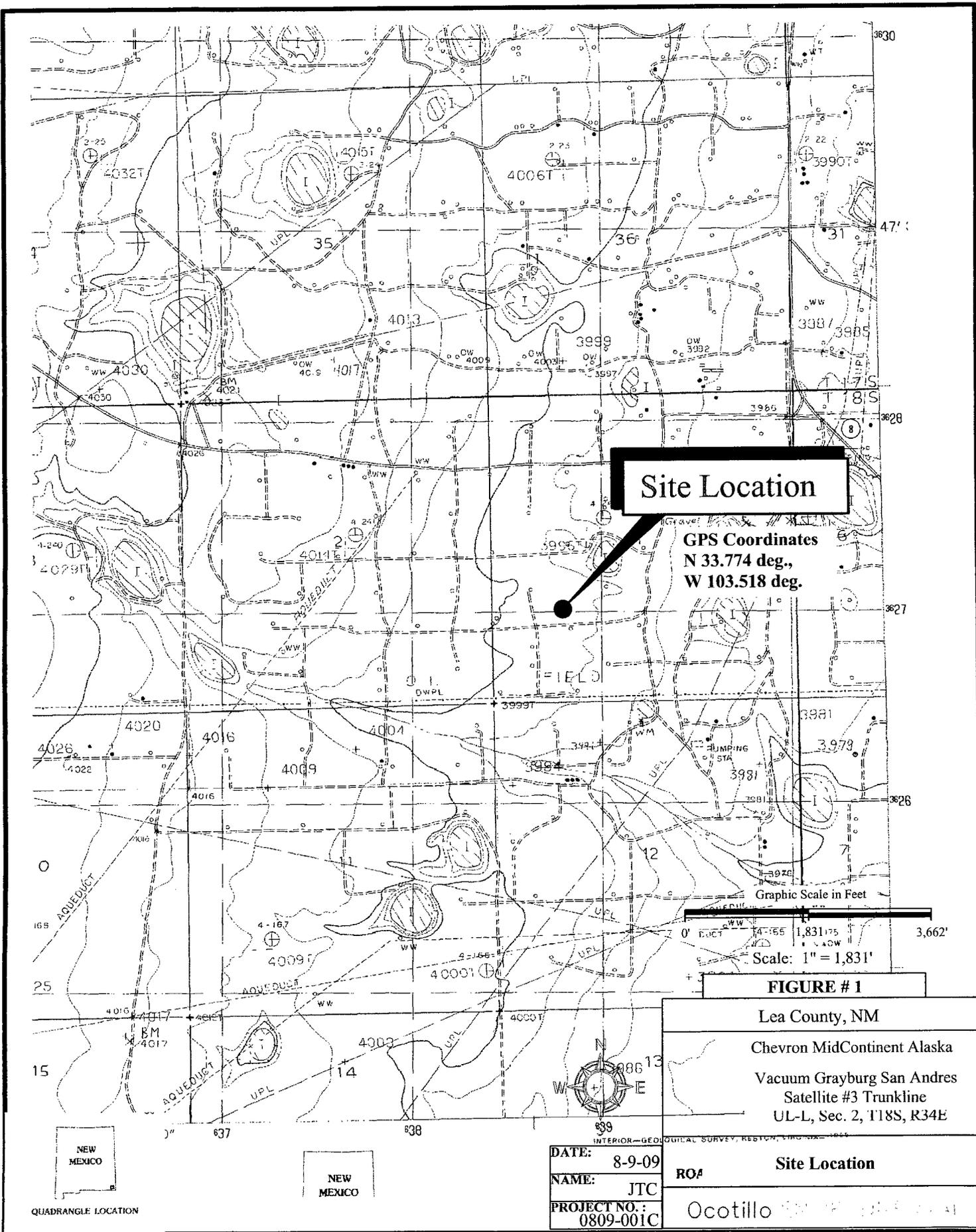
Sincerely,
Crain Environmental



Cindy K. Crain, P.G.
Environmental Manager

cc: Kim Klahsen, Chevron

FIGURES



Site Location

GPS Coordinates
N 33.774 deg.,
W 103.518 deg.

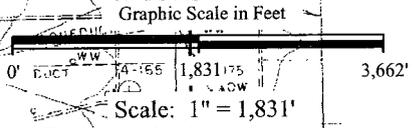


FIGURE # 1

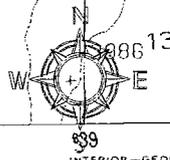
Lea County, NM
 Chevron MidContinent Alaska
 Vacuum Grayburg San Andres
 Satellite #3 Trunkline
 UL-L, Sec. 2, T18S, R34E

DATE: 8-9-09
NAME: JTC
PROJECT NO.: 0809-001C

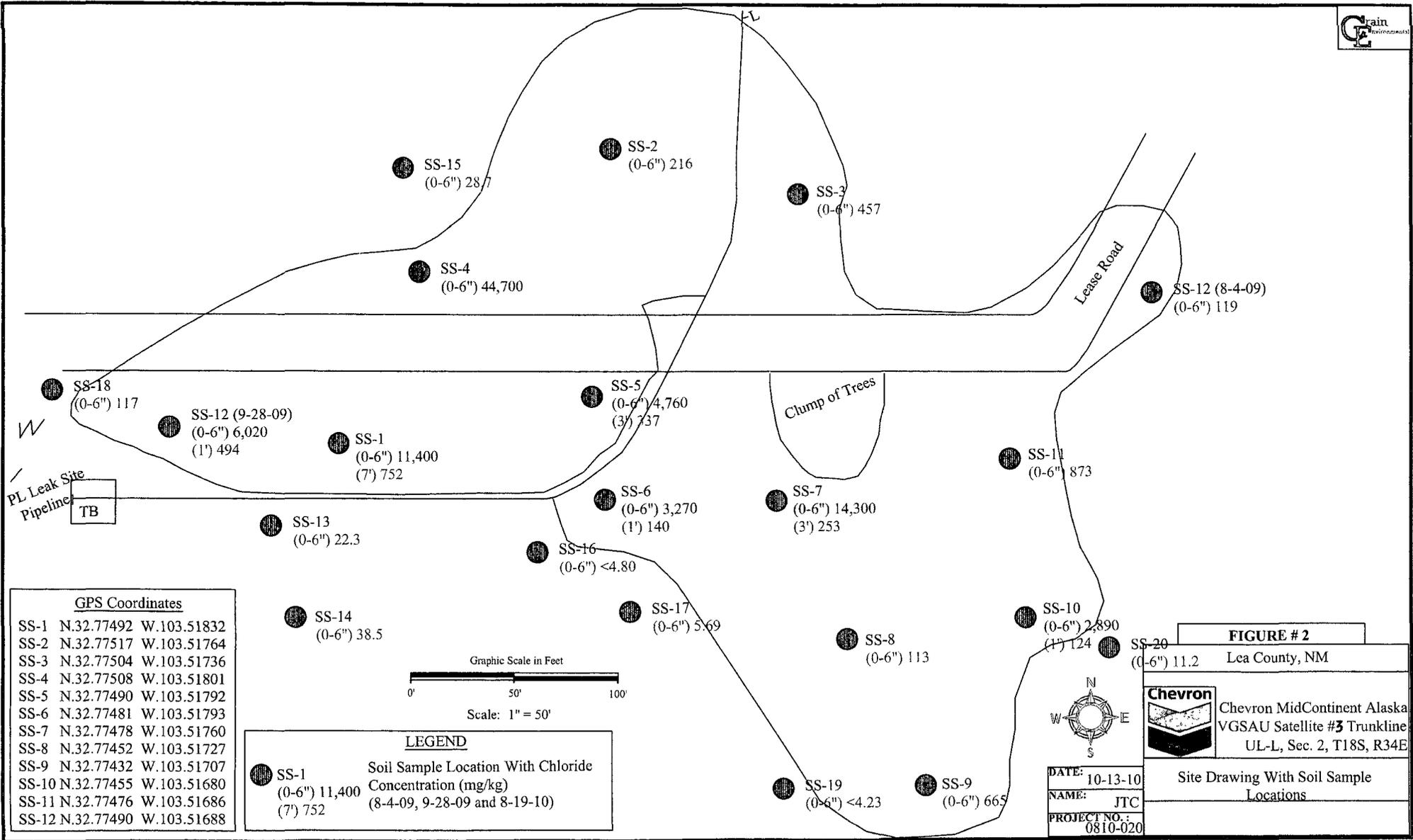
ROA **Site Location**
 Ocotillo



NEW MEXICO



QUADRANGLE LOCATION



GPS Coordinates	
SS-1	N.32.77492 W.103.51832
SS-2	N.32.77517 W.103.51764
SS-3	N.32.77504 W.103.51736
SS-4	N.32.77508 W.103.51801
SS-5	N.32.77490 W.103.51792
SS-6	N.32.77481 W.103.51793
SS-7	N.32.77478 W.103.51760
SS-8	N.32.77452 W.103.51727
SS-9	N.32.77432 W.103.51707
SS-10	N.32.77455 W.103.51680
SS-11	N.32.77476 W.103.51686
SS-12	N.32.77490 W.103.51688

LEGEND	
	Soil Sample Location With Chloride Concentration (mg/kg)
SS-1 (0-6") 11,400 (7") 752	(8-4-09, 9-28-09 and 8-19-10)

FIGURE # 2	
Lea County, NM	
Chevron MidContinent Alaska VGSAU Satellite #3 Trunkline UL-L, Sec. 2, T18S, R34E	
DATE: 10-13-10	Site Drawing With Soil Sample Locations
NAME: JTC	
PROJECT NO.: 0810-020	

TABLE

Table 1: Summary of Laboratory Analysis of Soil Samples
Chevron MidContinent LP, VGSAU Satellite #3 Trunkline
Unit Letter L, Section 2, Township 18 South, Range 34 East
Lea County, New Mexico

Sample Date	Soil Sample Number	Sample Depth (feet BGS)	Chloride (mg/kg)	Soil Status
8/4/09	SS-1	0-6"	11,400	Excavated
9/28/09		1	2,680	Excavated
9/28/09		2	3,200	Excavated
9/28/09		3	3,070	Excavated
9/28/09		4	3,770	Excavated
9/28/09		5	4,590	Excavated
8/19/10		6	48	Excavated
8/19/10		7	752	In Situ
8/4/09	SS-2	0-6"	216	In Situ
8/4/09	SS-3	0-6"	457	In Situ
8/4/09	SS-4*	0-6"	44,700	In Situ
8/4/09	SS-5	0-6"	4,760	Excavated
9/28/09		1	1,050	Excavated
9/28/09		2	1,010	Excavated
9/28/09		3	337	In Situ
8/4/09	SS-6	0-6"	3,270	Excavated
9/28/09		1	140	In Situ
9/28/09		2	39.2	In Situ
9/28/09		3	19.6	In Situ
8/4/09	SS-7	0-6"	14,300	Excavated
9/28/09		1	3,910	Excavated
9/28/09		2	760	In Situ
9/28/09		3	253	In Situ
8/19/10		3	160	In Situ
8/4/09	SS-8	0-6"	113	In Situ
8/4/09	SS-9	0-6"	665	In Situ
8/4/09	SS-10	0-6"	2,890	Excavated
9/28/09		1	124	In Situ
9/28/09		2	61.1	In Situ
9/28/09		3	115	In Situ
8/4/09	SS-11	0-6"	873	In Situ
8/4/09	SS-12	0-6"	119	In Situ
9/28/09	SS-12	0-6"	6,020	Excavated
9/28/09		1	494	In Situ
9/28/09		2	409	In Situ
9/28/09		3	313	In Situ
9/28/09	SS-13	0-6"	22.3	In Situ
9/28/09		1	273	In Situ
9/28/09		2	109	In Situ
9/28/09		3	58.8	In Situ
9/28/09	SS-14	0-6"	38.5	In Situ
9/28/09	SS-15	0-6"	28.7	In Situ
9/28/09	SS-16	0-6"	<4.80	In Situ
9/28/09		1	5.82	In Situ
9/28/09		2	<4.70	In Situ
9/28/09		3	<4.62	In Situ
9/28/09	SS-17	0-6"	5.69	In Situ
9/28/09		1	<4.33	In Situ
9/28/09		2	37.5	In Situ
9/28/09		3	474	In Situ
9/28/09	SS-18	0-6"	117	In Situ
9/28/09	SS-19	0-6"	<4.23	In Situ
9/28/09	SS-20	0-6"	11.2	In Situ

Notes: *Samples collected 8/4/09 and 9/28/09 analyzed by Xenco Laboratories, Odessa, TX.*
Samples collected 8/19/10 analyzed by Cardinal Laboratories, Hobbs, NM.
1. BGS: Depth in feet below ground surface.
2. mg/kg: Milligrams per kilogram.
3. *: Sample collected at surface of reserve pit.

APPENDIX A

Laboratory Report and Chain of Custody Documentation

Analytical Report 339841

for

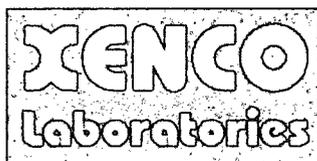
Ocotillo Environmental, LLC

Project Manager: Cindy Crain

Chevron VGSU Satellite # 3 Trunkline

0809-001C

07-AUG-09



12600 West I-20 East Odessa, Texas 79765

Xenco-Houston (EPA Lab code: TX00122):

Texas (T104704215-08-TX), Arizona (AZ0738), Arkansas (08-039-0), Connecticut (PH-0102), Florida (E871002)
Illinois (002082), Indiana (C-TX-02), Iowa (392), Kansas (E-10380), Kentucky (45), Louisiana (03054)
New Hampshire (297408), New Jersey (TX007), New York (11763), Oklahoma (9218), Pennsylvania (68-03610)
Rhode Island (LAO00308), USDA (S-44102)

Xenco-Atlanta (EPA Lab Code: GA00046):

Florida (E87428), North Carolina (483), South Carolina (98015), Utah (AALI1), West Virginia (362), Kentucky (85)
Louisiana (04176), USDA (P330-07-00105)

Xenco-Miami (EPA Lab code: FL01152): Florida (E86678), Maryland (330)

Xenco-Miramar (EPA Lab code: FL01246): Florida (E86349)

Xenco-Tampa Mobile (EPA Lab code: FL01212): Florida (E84900)

Xenco-Odessa (EPA Lab code: TX00158): Texas (T104704400-08-TX)

Xenco-Dallas (EPA Lab code: TX01468): Texas (T104704295-08-TX)

Xenco-Corpus Christi (EPA Lab code: TX02613): Texas (T104704370-08-TX)

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



07-AUG-09

Project Manager: **Cindy Crain**
Ocotillo Environmental, LLC
P.O. Box 1816
Hobbs, NM 88241

Reference: XENCO Report No: **339841**
Chevron VGSU Satellite # 3 Trunkline
Project Address: Lea County, NM

Cindy Crain:

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 339841. 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. 339841 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 339841



Ocotillo Environmental, LLC, Hobbs, NM
Chevron VGSU Satellite # 3 Trunkline

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
SS-1	S	Aug-04-09 11:30	0 - 6 In	339841-001
SS-2	S	Aug-04-09 11:35	0 - 6 In	339841-002
SS-3	S	Aug-04-09 11:40	0 - 6 In	339841-003
SS-4	S	Aug-04-09 11:45	0 - 6 In	339841-004
SS-5	S	Aug-04-09 11:50	0 - 6 In	339841-005
SS-6	S	Aug-04-09 11:55	0 - 6 In	339841-006
SS-7	S	Aug-04-09 12:00	0 - 6 In	339841-007
SS-8	S	Aug-04-09 12:05	0 - 6 In	339841-008
SS-9	S	Aug-04-09 12:10	0 - 6 In	339841-009
SS-10	S	Aug-04-09 12:15	0 - 6 In	339841-010
SS-11	S	Aug-04-09 12:20	0 - 6 In	339841-011
SS-12	S	Aug-04-09 12:30	0 - 6 In	339841-012

CASE NARRATIVE



Client Name: Ocotillo Environmental, LLC

Project Name: Chevron VGSU Satellite # 3 Trunkline

Project ID: 0809-001C

Report Date: 07-AUG-09

Work Order Number: 339841

Date Received: 08/05/2009

Sample receipt non conformances and Comments:

None

Sample receipt Non Conformances and Comments per Sample:

None

Analytical Non Conformances and Comments:

Batch: LBA-767862 Inorganic Anions by EPA 300

None

Batch: LBA-767879 Percent Moisture

None



Certificate of Analysis Summary 339841

Ocotillo Environmental, LLC, Hobbs, NM

Project Name: Chevron VGSU Satellite # 3 Trunkline



Project Id: 0809-001C

Contact: Cindy Crain

Project Location: Lea County, NM

Date Received in Lab: Wed Aug-05-09 04:00 pm

Report Date: 07-AUG-09

Project Manager: Brent Barron, II

<i>Analysis Requested</i>	<i>Lab Id:</i>	339841-001	339841-002	339841-003	339841-004	339841-005	339841-006
	<i>Field Id:</i>	SS-1	SS-2	SS-3	SS-4	SS-5	SS-6
	<i>Depth:</i>	0-6 In					
	<i>Matrix:</i>	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	<i>Sampled:</i>	Aug-04-09 11:30	Aug-04-09 11:35	Aug-04-09 11:40	Aug-04-09 11:45	Aug-04-09 11:50	Aug-04-09 11:55
Anions by EPA 300	<i>Extracted:</i>						
	<i>Analyzed:</i>	Aug-06-09 10:40					
	<i>Units/RL:</i>	mg/kg RL					
Chloride		11400 542	216 10.9	457 11.7	44700 1040	4760 108	3270 51.5
Percent Moisture	<i>Extracted:</i>						
	<i>Analyzed:</i>	Aug-07-09 09:08					
	<i>Units/RL:</i>	% RL					
Percent Moisture		7.72 1.00	8.55 1.00	14.40 1.00	4.29 1.00	7.71 1.00	3.00 1.00

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, II
 Odessa Laboratory Manager



Certificate of Analysis Summary 339841

Ocotillo Environmental, LLC, Hobbs, NM

Project Name: Chevron VGSU Satellite # 3 Trunkline



Project Id: 0809-001C

Contact: Cindy Crain

Project Location: Lea County, NM

Date Received in Lab: Wed Aug-05-09 04:00 pm

Report Date: 07-AUG-09

Project Manager: Brent Barron, II

<i>Analysis Requested</i>	<i>Lab Id:</i>	339841-007	339841-008	339841-009	339841-010	339841-011	339841-012
	<i>Field Id:</i>	SS-7	SS-8	SS-9	SS-10	SS-11	SS-12
	<i>Depth:</i>	0-6 In					
	<i>Matrix:</i>	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	<i>Sampled:</i>	Aug-04-09 12:00	Aug-04-09 12:05	Aug-04-09 12:10	Aug-04-09 12:15	Aug-04-09 12:20	Aug-04-09 12:30
Anions by EPA 300	<i>Extracted:</i>						
	<i>Analyzed:</i>	Aug-06-09 10:40					
	<i>Units/RL:</i>	mg/kg RL					
Chloride		14300 215	113 5.61	665 10.8	2890 55.3	873 20.9	119 5.28
Percent Moisture	<i>Extracted:</i>						
	<i>Analyzed:</i>	Aug-07-09 09:08					
	<i>Units/RL:</i>	% RL					
Percent Moisture		6.96 1.00	10.85 1.00	7.08 1.00	9.51 1.00	4.11 1.00	5.38 1.00

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, II
 Odessa Laboratory Manager



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 and above the SQL.
- 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.
- JN A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.
- BRL Below Reporting Limit.
- RL Reporting Limit
- * Outside XENCO's scope of NELAC Accreditation.

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	Phone	Fax
4143 Greenbriar Dr, Stafford, Tx 77477	(281) 240-4200	(281) 240-4280
9701 Harry Hines Blvd, Dallas, TX 75220	(214) 902 0300	(214) 351-9139
5332 Blackberry Drive, San Antonio TX 78238	(210) 509-3334	(210) 509-3335
2505 North 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
12600 West I-20 East, Odessa, TX 79765	(432) 563-1800	(432) 563-1713
842 Cantwell Lane, Corpus Christi, TX 78408	(361) 884-0371	(361) 884-9116



Blank Spike Recovery



Project Name: Chevron VGSU Satellite # 3 Trunkline

Work Order #: 339841

Project ID:

0809-001C

Lab Batch #: 767862

Sample: 767862-1-BKS

Matrix: Solid

Date Analyzed: 08/06/2009

Date Prepared: 08/06/2009

Analyst: LATCOR

Reporting Units: mg/kg

Batch #: 1

BLANK /BLANK SPIKE RECOVERY STUDY

Anions by EPA 300 Analytes	Blank Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Control Limits %R	Flags
Chloride	ND	10.0	9.77	98	80-120	

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

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

BRL - Below Reporting Limit



Form 3 - MS Recoveries



Project Name: Chevron VGSU Satellite # 3 Trunkline

Work Order #: 339841

Lab Batch #: 767862

Project ID: 0809-001C

Date Analyzed: 08/06/2009

Date Prepared: 08/06/2009

Analyst: LATCOR

QC- Sample ID: 339841-001 S

Batch #: 1

Matrix: Soil

Reporting Units: mg/kg

MATRIX / MATRIX SPIKE RECOVERY STUDY

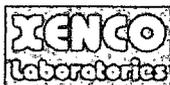
Inorganic Anions by EPA 300	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	%R [D]	Control Limits %R	Flag
Analytes						
Chloride	11400	10800	21700	95	80-120	

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

BRL - Below Reporting Limit



Sample Duplicate Recovery



Project Name: Chevron VGSU Satellite # 3 Trunkline

Work Order #: 339841

Lab Batch #: 767862

Project ID: 0809-001C

Date Analyzed: 08/06/2009

Date Prepared: 08/06/2009

Analyst: LATCOR

QC- Sample ID: 339841-001 D

Batch #: 1

Matrix: Soil

Reporting Units: mg/kg

SAMPLE / SAMPLE DUPLICATE RECOVERY

Anions by EPA 300	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Analyte					
Chloride	11400	11500	1	20	

Lab Batch #: 767879

Date Analyzed: 08/07/2009

Date Prepared: 08/07/2009

Analyst: BEV

QC- Sample ID: 339838-001 D

Batch #: 1

Matrix: Soil

Reporting Units: %

SAMPLE / SAMPLE DUPLICATE RECOVERY

Percent Moisture	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Analyte					
Percent Moisture	11.3	11.4	1	20	

Spike Relative Difference RPD $200 * |(B-A)/(B+A)|$

All Results are based on MDL and validated for QC purposes.

BRL - Below Reporting Limit

Environmental Lab of Texas
Variance/ Corrective Action Report- Sample Log-In

Client: Ocotillo Env.
 Date/ Time: 8.5.09 16:00
 Lab ID #: 339841
 Initials: AL

Sample Receipt Checklist

Client Initials

	Yes	No		
#1 Temperature of container/ cooler?	(Yes)	No	32.6 °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

Analytical Report 346575

for

Ocotillo Environmental, LLC

Project Manager: Cindy Crain

Chevron VGSU Sat # 3 Trunkline

0809-001C

05-OCT-09



12600 West I-20 East Odessa, Texas 79765

Xenco-Houston (EPA Lab code: TX00122):

Texas (T104704215-08-TX), Arizona (AZ0738), Arkansas (08-039-0), Connecticut (PH-0102), Florida (E871002)
Illinois (002082), Indiana (C-TX-02), Iowa (392), Kansas (E-10380), Kentucky (45), Louisiana (03054)
New Hampshire (297408), New Jersey (TX007), New York (11763), Oklahoma (9218), Pennsylvania (68-03610)
Rhode Island (LAC00308), USDA (S-44102)

Xenco-Atlanta (EPA Lab Code: GA00046):

Florida (E87428), North Carolina (483), South Carolina (98015), Utah (AALI1), West Virginia (362), Kentucky (85)
Louisiana (04176), USDA (P330-07-00105)

Xenco-Miami (EPA Lab code: FL01152): Florida (E86678), Maryland (330)

Xenco-Tampa Mobile (EPA Lab code: FL01212): Florida (E84900)

Xenco-Odessa (EPA Lab code: TX00158): Texas (T104704400-08-TX)

Xenco-Dallas (EPA Lab code: TX01468): Texas (T104704295-08-TX)

Xenco-Corpus Christi (EPA Lab code: TX02613): Texas (T104704370-08-TX)

Xenco-Boca Raton (EPA Lab Code: FL00449): Florida(E86240),

South Carolina(96031001), Louisiana(04154), Georgia(917)



05-OCT-09

Project Manager: **Cindy Crain**
Ocotillo Environmental, LLC
P.O. Box 1816
Hobbs, NM 88241

Reference: XENCO Report No: **346575**
Chevron VGSU Sat # 3 Trunkline
Project Address: Buckeye, NM

Cindy Crain:

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 346575. 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. 346575 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 346575



Ocotillo Environmental, LLC, Hobbs, NM

Chevron VGSU Sat # 3 Trunkline

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
SS-12 (0-6")	S	Sep-28-09 10:30	0 - 6 In	346575-001
SS-12 (1')	S	Sep-28-09 10:35	1 - 1 ft	346575-002
SS-12 (2')	S	Sep-28-09 10:38	2 - 2 ft	346575-003
SS-12 (3')	S	Sep-28-09 10:40	3 - 3 ft	346575-004
SS-1 (1')	S	Sep-28-09 10:57	1 - 1 ft	346575-005
SS-1 (2')	S	Sep-28-09 11:00	2 - 2 ft	346575-006
SS-1 (3')	S	Sep-28-09 11:03	3 - 3 ft	346575-007
SS-1 (4')	S	Sep-28-09 11:49	4 - 4 ft	346575-008
SS-1 (5')	S	Sep-28-09 11:52	5 - 5 ft	346575-009
SS-5 (1')	S	Sep-28-09 13:20	1 - 1 ft	346575-010
SS-5 (2')	S	Sep-28-09 13:23	2 - 2 ft	346575-011
SS-5 (3')	S	Sep-28-09 13:26	3 - 3 ft	346575-012
SS-7 (1')	S	Sep-28-09 14:53	1 - 1 ft	346575-013
SS-7 (2')	S	Sep-28-09 14:56	2 - 2 ft	346575-014
SS-7 (3')	S	Sep-28-09 15:00	3 - 3 ft	346575-015
SS-13 (0-6")	S	Sep-28-09 11:30	0 - 6 In	346575-016
SS-13 (1')	S	Sep-28-09 11:33	1 - 1 ft	346575-017
SS-13 (2')	S	Sep-28-09 11:36	2 - 2 ft	346575-018
SS-13 (3')	S	Sep-28-09 11:40	3 - 3 ft	346575-019
SS-14 (0-6")	S	Sep-28-09 11:27	0 - 6 In	346575-020
SS-15 (0-6")	S	Sep-28-09 11:43	0 - 6 In	346575-021
SS-6 (1')	S	Sep-28-09 14:00	1 - 1 ft	346575-022
SS-6 (2')	S	Sep-28-09 14:03	2 - 2 ft	346575-023
SS-6 (3')	S	Sep-28-09 14:06	3 - 3 ft	346575-024
SS-16 (0-6")	S	Sep-28-09 14:18	0 - 6 In	346575-025
SS-16 (1')	S	Sep-28-09 14:20	1 - 1 ft	346575-026
SS-16 (2')	S	Sep-28-09 14:23	2 - 2 ft	346575-027
SS-16 (3')	S	Sep-28-09 14:26	3 - 3 ft	346575-028
SS-17 (0-6")	S	Sep-28-09 14:29	0 - 6 In	346575-029
SS-17 (1')	S	Sep-28-09 14:30	1 - 1 ft	346575-030
SS-17 (2')	S	Sep-28-09 14:33	2 - 2 ft	346575-031
SS-17 (3')	S	Sep-28-09 14:36	3 - 3 ft	346575-032
SS-18 (0-6")	S	Sep-28-09 14:40	0 - 6 In	346575-033
SS-19 (0-6")	S	Sep-28-09 15:10	0 - 6 In	346575-034
SS-10 (1')	S	Sep-28-09 15:40	1 - 1 ft	346575-035
SS-10 (2')	S	Sep-28-09 15:43	2 - 2 ft	346575-036
SS-10 (3')	S	Sep-28-09 15:46	3 - 3 ft	346575-037
SS-20 (0-6")	S	Sep-28-09 15:50	0 - 6 In	346575-038

CASE NARRATIVE



Client Name: Ocotillo Environmental, LLC
Project Name: Chevron VGSU Sat # 3 Trunkline

Project ID: 0809-001C
Work Order Number: 346575

Report Date: 05-OCT-09
Date Received: 09/30/2009

Sample receipt non conformances and Comments:

None

Sample receipt Non Conformances and Comments per Sample:

None

Analytical Non Conformances and Comments:

Batch: LBA-775059 Percent Moisture
AD2216A

Batch 775059, Percent Moisture RPD is outside the QC limit. This is most likely due to sample non-homogeneity.

Samples affected are: 346575-010, -013, -015, -017, -019, -001, -004, -006, -011, -012, -018, -020, -007, -009, -002, -003, -005, -008, -014, -016.

Batch: LBA-775060 Percent Moisture
None

Batch: LBA-775314 Inorganic Anions by EPA 300
E300MI

Batch 775314, Chloride RPD is outside the QC limit. This is most likely due to sample non-homogeneity.

Samples affected are: 346575-010, -013, -015, -017, -019, -001, -004, -006, -011, -012, -018, -020, -007, -009, -002, -003, -005, -008, -014, -016.

E300MI

Batch 775314, Chloride recovered below QC limits in the Matrix Spike.

Samples affected are: 346575-010, -013, -015, -017, -019, -001, -004, -006, -011, -012, -018, -020, -007, -009, -002, -003, -005, -008, -014, -016.

The Laboratory Control Sample for Chloride is within laboratory Control Limits

Batch: LBA-775382 Inorganic Anions by EPA 300
None



Certificate of Analysis Summary 346575

Ocotillo Environmental, LLC, Hobbs, NM

Project Name: Chevron VGSU Sat # 3 Trunkline



Project Id: 0809-001C

Contact: Cindy Crain

Project Location: Buckeye, NM

Date Received in Lab: Wed Sep-30-09 01:33 pm

Report Date: 05-OCT-09

Project Manager: Brent Barron, II

<i>Analysis Requested</i>	<i>Lab Id:</i>	346575-001	346575-002	346575-003	346575-004	346575-005	346575-006
	<i>Field Id:</i>	SS-12 (0-6")	SS-12 (1')	SS-12 (2')	SS-12 (3')	SS-1 (1')	SS-1 (2')
	<i>Depth:</i>	0-6 In	1-1 ft	2-2 ft	3-3 ft	1-1 ft	2-2 ft
	<i>Matrix:</i>	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	<i>Sampled:</i>	Sep-28-09 10:30	Sep-28-09 10:35	Sep-28-09 10:38	Sep-28-09 10:40	Sep-28-09 10:57	Sep-28-09 11:00
Anions by E300	<i>Extracted:</i>						
	<i>Analyzed:</i>	Oct-02-09 01:24					
	<i>Units/RL:</i>	mg/kg RL					
Chloride		6020 173	494 9.86	409 9.13	313 9.12	2680 48.2	3200 100
Percent Moisture	<i>Extracted:</i>						
	<i>Analyzed:</i>	Oct-01-09 10:16					
	<i>Units/RL:</i>	% RL					
Percent Moisture		3.10 1.00	14.8 1.00	8.03 1.00	7.90 1.00	12.9 1.00	16.1 1.00

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Brent Barron, II
Odessa Laboratory Manager



Certificate of Analysis Summary 346575

Ocotillo Environmental, LLC, Hobbs, NM

Project Name: Chevron VGSU Sat # 3 Trunkline



Project Id: 0809-001C

Contact: Cindy Crain

Project Location: Buckeye, NM

Date Received in Lab: Wed Sep-30-09 01:33 pm

Report Date: 05-OCT-09

Project Manager: Brent Barron, II

<i>Analysis Requested</i>	<i>Lab Id:</i>	346575-007	346575-008	346575-009	346575-010	346575-011	346575-012
	<i>Field Id:</i>	SS-1 (3')	SS-1 (4')	SS-1 (5')	SS-5 (1')	SS-5 (2')	SS-5 (3')
	<i>Depth:</i>	3-3 ft	4-4 ft	5-5 ft	1-1 ft	2-2 ft	3-3 ft
	<i>Matrix:</i>	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	<i>Sampled:</i>	Sep-28-09 11:03	Sep-28-09 11:49	Sep-28-09 11:52	Sep-28-09 13:20	Sep-28-09 13:23	Sep-28-09 13:26
Anions by E300	<i>Extracted:</i>						
	<i>Analyzed:</i>	Oct-02-09 01:24					
	<i>Units/RL:</i>	mg/kg RL					
Chloride		3070 95.9	3770 96.9	4590 102	1050 23.3	1010 18.1	337 17.9
Percent Moisture	<i>Extracted:</i>						
	<i>Analyzed:</i>	Oct-01-09 10:16					
	<i>Units/RL:</i>	% RL					
Percent Moisture		12.4 1.00	13.3 1.00	17.4 1.00	9.98 1.00	7.21 1.00	5.96 1.00

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 Brent Barron, II
 Odessa Laboratory Manager



Certificate of Analysis Summary 346575

Ocotillo Environmental, LLC, Hobbs, NM

Project Name: Chevron VGSU Sat # 3 Trunkline



Project Id: 0809-001C

Contact: Cindy Crain

Project Location: Buckeye, NM

Date Received in Lab: Wed Sep-30-09 01:33 pm

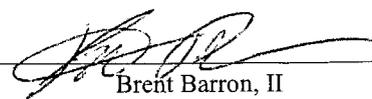
Report Date: 05-OCT-09

Project Manager: Brent Barron, II

<i>Analysis Requested</i>	<i>Lab Id:</i>	346575-013	346575-014	346575-015	346575-016	346575-017	346575-018
	<i>Field Id:</i>	SS-7 (1')	SS-7 (2')	SS-7 (3')	SS-13 (0-6")	SS-13 (1')	SS-13 (2')
	<i>Depth:</i>	1-1 ft	2-2 ft	3-3 ft	0-6 In	1-1 ft	2-2 ft
	<i>Matrix:</i>	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	<i>Sampled:</i>	Sep-28-09 14:53	Sep-28-09 14:56	Sep-28-09 15:00	Sep-28-09 11:30	Sep-28-09 11:33	Sep-28-09 11:36
Anions by E300	<i>Extracted:</i>						
	<i>Analyzed:</i>	Oct-02-09 01:24					
	<i>Units/RL:</i>	mg/kg RL					
Chloride		3910 186	760 17.3	253 8.48	22.3 4.55	273 9.73	109 4.58
Percent Moisture	<i>Extracted:</i>						
	<i>Analyzed:</i>	Oct-01-09 10:16					
	<i>Units/RL:</i>	% RL					
Percent Moisture		9.90 1.00	2.72 1.00	ND 1.00	7.75 1.00	13.6 1.00	8.21 1.00

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Brent Barron, II
Odessa Laboratory Manager



Certificate of Analysis Summary 346575

Ocotillo Environmental, LLC, Hobbs, NM

Project Name: Chevron VGSU Sat # 3 Trunkline



Project Id: 0809-001C

Contact: Cindy Crain

Project Location: Buckeye, NM

Date Received in Lab: Wed Sep-30-09 01:33 pm

Report Date: 05-OCT-09

Project Manager: Brent Barron, II

Analysis Requested	Lab Id:	346575-019	346575-020	346575-021	346575-022	346575-023	346575-024
	Field Id:	SS-13 (3')	SS-14 (0-6")	SS-15 (0-6")	SS-6 (1')	SS-6 (2')	SS-6 (3')
	Depth:	3-3 ft	0-6 In	0-6 In	1-1 ft	2-2 ft	3-3 ft
	Matrix:	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Sampled:	Sep-28-09 11:40	Sep-28-09 11:27	Sep-28-09 11:43	Sep-28-09 14:00	Sep-28-09 14:03	Sep-28-09 14:06
Anions by E300	Extracted:						
	Analyzed:	Oct-02-09 01:24	Oct-02-09 01:24	Oct-02-09 09:43	Oct-02-09 09:43	Oct-02-09 09:43	Oct-02-09 09:43
	Units/RL:	mg/kg RL					
Chloride		58.8 4.41	38.5 4.26	28.7 4.21	140 9.33	39.2 4.50	19.6 4.27
Percent Moisture	Extracted:						
	Analyzed:	Oct-01-09 10:16	Oct-01-09 10:16	Oct-01-09 10:24	Oct-01-09 10:24	Oct-01-09 10:24	Oct-01-09 10:24
	Units/RL:	% RL					
Percent Moisture		4.84 1.00	1.30 1.00	ND 1.00	9.95 1.00	6.60 1.00	1.65 1.00

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Brent Barron, II
Odessa Laboratory Manager



Certificate of Analysis Summary 346575

Ocotillo Environmental, LLC, Hobbs, NM

Project Name: Chevron VGSU Sat # 3 Trunkline



Project Id: 0809-001C

Contact: Cindy Crain

Project Location: Buckeye, NM

Date Received in Lab: Wed Sep-30-09 01:33 pm

Report Date: 05-OCT-09

Project Manager: Brent Barron, II

<i>Analysis Requested</i>	<i>Lab Id:</i>	346575-025	346575-026	346575-027	346575-028	346575-029	346575-030
	<i>Field Id:</i>	SS-16 (0-6")	SS-16 (1')	SS-16 (2')	SS-16 (3')	SS-17 (0-6")	SS-17 (1')
	<i>Depth:</i>	0-6 In	1-1 ft	2-2 ft	3-3 ft	0-6 In	1-1 ft
	<i>Matrix:</i>	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	<i>Sampled:</i>	Sep-28-09 14:18	Sep-28-09 14:20	Sep-28-09 14:23	Sep-28-09 14:26	Sep-28-09 14:29	Sep-28-09 14:30
Anions by E300	<i>Extracted:</i>						
	<i>Analyzed:</i>	Oct-02-09 09:43					
	<i>Units/RL:</i>	mg/kg RL					
Chloride		ND 4.80	5.82 4.99	ND 4.70	ND 4.62	5.69 4.27	ND 4.33
Percent Moisture	<i>Extracted:</i>						
	<i>Analyzed:</i>	Oct-01-09 10:24					
	<i>Units/RL:</i>	% RL					
Percent Moisture		12.6 1.00	15.8 1.00	10.6 1.00	9.08 1.00	1.59 1.00	2.95 1.00

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, II
Odessa Laboratory Manager



Certificate of Analysis Summary 346575

Ocotillo Environmental, LLC, Hobbs, NM

Project Name: Chevron VGSU Sat # 3 Trunkline



Project Id: 0809-001C

Contact: Cindy Crain

Project Location: Buckeye, NM

Date Received in Lab: Wed Sep-30-09 01:33 pm

Report Date: 05-OCT-09

Project Manager: Brent Barron, II

<i>Analysis Requested</i>	<i>Lab Id:</i>	346575-031	346575-032	346575-033	346575-034	346575-035	346575-036
	<i>Field Id:</i>	SS-17 (2')	SS-17 (3')	SS-18 (0-6")	SS-19 (0-6")	SS-10 (1')	SS-10 (2')
	<i>Depth:</i>	2-2 ft	3-3 ft	0-6 In	0-6 In	1-1 ft	2-2 ft
	<i>Matrix:</i>	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	<i>Sampled:</i>	Sep-28-09 14:33	Sep-28-09 14:36	Sep-28-09 14:40	Sep-28-09 15:10	Sep-28-09 15:40	Sep-28-09 15:43
Anions by E300	<i>Extracted:</i>						
	<i>Analyzed:</i>	Oct-02-09 09:43					
	<i>Units/RL:</i>	mg/kg RL					
Chloride		37.5 17.3	474 176	117 4.23	ND 4.23	124 4.86	61.1 4.66
Percent Moisture	<i>Extracted:</i>						
	<i>Analyzed:</i>	Oct-01-09 10:24					
	<i>Units/RL:</i>	% RL					
Percent Moisture		2.89 1.00	4.29 1.00	ND 1.00	ND 1.00	13.5 1.00	9.80 1.00

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Brent Barron, II
Odessa Laboratory Manager



Certificate of Analysis Summary 346575

Ocotillo Environmental, LLC, Hobbs, NM

Project Name: Chevron VGSU Sat # 3 Trunkline



Project Id: 0809-001C

Contact: Cindy Crain

Project Location: Buckeye, NM

Date Received in Lab: Wed Sep-30-09 01:33 pm

Report Date: 05-OCT-09

Project Manager: Brent Barron, II

Analysis Requested	<i>Lab Id:</i>	346575-037	346575-038			
	<i>Field Id:</i>	SS-10 (3')	SS-20 (0-6")			
	<i>Depth:</i>	3-3 ft	0-6 In			
	<i>Matrix:</i>	SOIL	SOIL			
	<i>Sampled:</i>	Sep-28-09 15:46	Sep-28-09 15:50			
Anions by E300	<i>Extracted:</i>					
	<i>Analyzed:</i>	Oct-02-09 09:43	Oct-02-09 09:43			
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL			
Chloride		115 4.59	11.2 4.23			
Percent Moisture	<i>Extracted:</i>					
	<i>Analyzed:</i>	Oct-01-09 10:24	Oct-01-09 10:24			
	<i>Units/RL:</i>	% RL	% RL			
Percent Moisture		8.57 1.00	ND 1.00			

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Brent Barron, II
Odessa Laboratory Manager



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 and above the SQL.
- 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.
- JN A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.

BRL Below Reporting Limit.

RL Reporting Limit

* 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, San Antonio TX 78238	(210) 509-3334	(210) 509-3335
2505 North 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
12600 West I-20 East, Odessa, TX 79765	(432) 563-1800	(432) 563-1713
842 Cantwell Lane, Corpus Christi, TX 78408	(361) 884-0371	(361) 884-9116



Blank Spike Recovery



Project Name: Chevron VGSU Sat # 3 Trunkline

Work Order #: 346575

Project ID:

0809-001C

Lab Batch #: 775314

Sample: 775314-1-BKS

Matrix: Solid

Date Analyzed: 10/02/2009

Date Prepared: 10/02/2009

Analyst: LATCOR

Reporting Units: mg/kg

Batch #: 1

BLANK /BLANK SPIKE RECOVERY STUDY

Anions by E300 Analytes	Blank Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Control Limits %R	Flags
Chloride	ND	10.0	8.79	88	75-125	

Lab Batch #: 775382

Sample: 775382-1-BKS

Matrix: Solid

Date Analyzed: 10/02/2009

Date Prepared: 10/02/2009

Analyst: LATCOR

Reporting Units: mg/kg

Batch #: 1

BLANK /BLANK SPIKE RECOVERY STUDY

Anions by E300 Analytes	Blank Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Control Limits %R	Flags
Chloride	ND	10.0	9.16	92	75-125	

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

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

BRL - Below Reporting Limit



Form 3 - MS Recoveries



Project Name: Chevron VGSU Sat # 3 Trunkline

Work Order #: 346575

Lab Batch #: 775314

Date Analyzed: 10/02/2009

QC- Sample ID: 346575-001 S

Reporting Units: mg/kg

Project ID: 0809-001C

Analyst: LATCOR

Date Prepared: 10/02/2009

Batch #: 1

Matrix: Soil

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	6020	4130	7520	36	75-125	X

Lab Batch #: 775382

Date Analyzed: 10/02/2009

QC- Sample ID: 346575-021 S

Reporting Units: mg/kg

Date Prepared: 10/02/2009

Analyst: LATCOR

Batch #: 1

Matrix: Soil

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	28.7	100	108	79	75-125	

Matrix Spike Percent Recovery [D] = $100 \cdot (C-A) / B$
 Relative Percent Difference [E] = $200 \cdot (C-A) / (C+B)$
 All Results are based on MDL and Validated for QC Purposes

BRL - Below Reporting Limit



Sample Duplicate Recovery



Project Name: Chevron VGSU Sat # 3 Trunkline

Work Order #: 346575

Lab Batch #: 775314

Project ID: 0809-001C

Date Analyzed: 10/02/2009

Date Prepared: 10/02/2009

Analyst: LATCOR

QC- Sample ID: 346575-001 D

Batch #: 1

Matrix: Soil

Reporting Units: mg/kg

SAMPLE / SAMPLE DUPLICATE RECOVERY					
Anions by E300	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Analyte					
Chloride	6020	4750	24	20	F

Lab Batch #: 775382

Date Analyzed: 10/02/2009

Date Prepared: 10/02/2009

Analyst: LATCOR

QC- Sample ID: 346575-021 D

Batch #: 1

Matrix: Soil

Reporting Units: mg/kg

SAMPLE / SAMPLE DUPLICATE RECOVERY					
Anions by E300	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Analyte					
Chloride	28.7	29.0	1	20	

Lab Batch #: 775059

Date Analyzed: 10/01/2009

Date Prepared: 10/01/2009

Analyst: BEV

QC- Sample ID: 346575-001 D

Batch #: 1

Matrix: Soil

Reporting Units: %

SAMPLE / SAMPLE DUPLICATE RECOVERY					
Percent Moisture	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Analyte					
Percent Moisture	3.10	5.54	56	20	F

Lab Batch #: 775060

Date Analyzed: 10/01/2009

Date Prepared: 10/01/2009

Analyst: BEV

QC- Sample ID: 346575-021 D

Batch #: 1

Matrix: Soil

Reporting Units: %

SAMPLE / SAMPLE DUPLICATE RECOVERY					
Percent Moisture	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Analyte					
Percent Moisture	ND	ND	NC	20	

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

BRL - Below Reporting Limit

Environmental Lab of Texas
Variance/ Corrective Action Report- Sample Log-In

Client: Ocotillo Env.
 Date/ Time: 9.30.09 13:33
 Lab ID #: 346575
 Initials: AL

Sample Receipt Checklist

				Client Initials	
#1	Temperature of container/ cooler?	(Yes)	No	23.6	°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	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



August 23, 2010

Cindy Crain
Ocotillo Environmental, LLC
P.O. Box 1816
Hobbs, NM 88241

RE: VGSAU SAT #3

Enclosed are the results of analyses for samples received by the laboratory on 08/19/10 15:27.

Cardinal Laboratories is accredited through Texas NELAP for:

Method SW-846 8021	Benzene, Toluene, Ethyl Benzene, and Total Xylenes
Method SW-846 8260	Benzene, Toluene, Ethyl Benzene, and Total Xylenes
Method TX 1005	Total Petroleum Hydrocarbons

Certificate number T104704398-08-TX. Accreditation applies to solid and chemical materials and non-potable water matrices.

Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene".

Celey D. Keene
Lab Director/Quality Manager

Analytical Results For:

Ocotillo Environmental, LLC
 Cindy Crain
 P.O. Box 1816
 Hobbs NM, 88241
 Fax To: (432) 272-0304

Received: 08/19/2010
 Reported: 08/23/2010
 Project Name: VGSAU SAT #3
 Project Number: 0809-001C
 Project Location: BUCKEYE, NM

Sampling Date: 08/19/2010
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Celey D. Keene

Sample ID: SS #1 - 6' (H020672-01)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	08/20/2010	ND	416	104	400	3.77		

Sample ID: SS #1 - 7' (H020672-02)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	752	16.0	08/20/2010	ND	416	104	400	3.77		

Sample ID: SS #7 - 3' (H020672-03)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	160	16.0	08/20/2010	ND	416	104	400	3.77		

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Notes and Definitions

- ND Analyte NOT DETECTED at or above the reporting limit
- RPD Relative Percent Difference
- ** Samples not received at proper temperature of 6°C or below.
- *** Insufficient time to reach temperature.
- Chloride by SM4500Cl-B does not require samples be received at or below 6°C
Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



CARDINAL LABORATORIES

101 East Marland, Hobbs, NM 88240

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: <u>CARDINAL ENVIRONMENTAL</u>		BILL TO		ANALYSIS REQUEST											
Project Manager: <u>CINDY CRAIN</u>		P.O. #:													
Address: <u>PO Box 1816</u>		Company:													
City: <u>Hobbs</u> State: <u>NM</u> Zip: <u>88241</u>		Attn: <u>SAME</u>													
Phone #: <u>575-393-6371</u> Fax #: <u>432-272-6304</u>		Address:													
Project #: <u>0805-CCIC</u> Project Owner: <u>CHADEN</u>		City:													
Project Name: <u>V6 SALK SAT #3 TRUNKLINE</u>		State: Zip:													
Project Location: <u>Beckeye</u>		Phone #:													
Sampler Name: <u>Robert D. Jones</u>		Fax #:													

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX					PRESERV.			SAMPLING		
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE	ICE/COOL	OTHER :	DATE	TIME
<u>H20672-1</u>	<u>SS #1-0'</u>	<u>1</u>	<u>1</u>									<u>8-10-11</u>	<u>11:30A</u>	<u>/</u>
<u>2</u>	<u>SS #1-7'</u>	<u>1</u>	<u>1</u>									<u>8-10-11</u>	<u>11:30A</u>	<u>/</u>
<u>3</u>	<u>SS #7-3'</u>	<u>1</u>	<u>1</u>									<u>8-10-11</u>	<u>12:15P</u>	<u>/</u>

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Relinquished By:	Date:	Received By:	Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Phone #:
	Time:		Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Fax #:
Relinquished By: <u>[Signature]</u>	Date: <u>8-10-11</u>	Received By: <u>[Signature]</u>	REMARKS: <u>LOWER CASE EMAIL CINDY.CRAIN@GMAIL.COM</u>	
Delivered By: (Circle One)	Time: <u>3:27</u>	Sample Condition	CHECKED BY: (Initials)	
<u>Sampler - UPS - Bus - Other:</u>	<u>27°C</u>	Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<u>CSH</u>	

#26

FINAL C-141 FORM