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
20 S. St. Francis Dr., Santa Fe, NM 87505

#### State of New Mexico **Energy Minerals and Natural Resources**

Oil Conservation Division

For drilling and production facilities, submit to appropriate NMOCD District Office.

For downstream facilities, submit to Santa Fe

1220 South St. Francis Dr. Santa Fe, NM 87505 Pit or Below-Grade Tank Registration or Closure

**Final Report** 

Form C-144 June 1, 2004

Is pit or below-grade tan Type of action: Registration of a pit o	k covered by a "general plan"? Yes	No S Final Report  -grade tank S
Operator: EOG Resources, Inc. Telephone:	432-6863600 e-mail address: B	erigry@msn.com
Address: P O Box 2267 Midland, TX 79702		
Facility or well name: Crusoe BKO Fed Com #1H API #:	30-015-34729 U/L or Qtr/Qtr _A	Sec <u>24 T 16S R 24E</u>
County: Eddy Latitude		
Surface Owner: Federal State Private Indian		
Pit	Below-grade tank	
Type: Drilling ☑ Production ☐ Disposal ☐	Volume:bbl Type of fluid:	· ·
Workover  Emergency	Construction material:	
Lined ⊠ Unlined □	Double-walled, with leak detection? Yes I	
Liner type: Synthetic ☑ Thickness 12 mil Clay ☐		
Pit Volume 10300 bbl		
	Less than 50 feet	(20 points)
Depth to ground water (vertical distance from bottom of pit to seasonal	50 feet or more, but less than 100 feet	(10 points)
high water elevation of ground water.)	100 feet or more	( 0 points) XXX
	100 tot of more	
Wellhead protection area: (Less than 200 feet from a private domestic	Yes	(20 points)
water source, or less than 1000 feet from all other water sources.)	No	( 0 points) XXX
	Less than 200 feet	(20 points)
stance to surface water: (horizontal distance to all wetlands, playas,	200 feet or more, but less than 1000 feet	(10 points)
Aigation canals, ditches, and perennial and ephemeral watercourses.)	1000 feet or more	( 0 points) XXX
		0 Points
	Ranking Score (Total Points)	0 Foliats
If this is a pit closure: (1) Attach a diagram of the facility showing the pit	's relationship to other equipment and tanks. (2) Is	ndicate disposal location: (check the onsite box if
your are burying in place) onsite 🛛 offsite 🔲 If offsite, name of facility_	. (3) Attach a gene	ral description of remedial action taken including
remediation start date and end date. (4) Groundwater encountered: No 🛛	Yes If yes, show depth below ground surface_	ft. and attach sample results.
(5) Attach soil sample results and a diagram of sample locations and excava	ntions.	
Additional Comments: A burial pit was constructed and lined with a 12mi	il impervious liner. The drilling pit contents were	stiffened with dry soil then placed in the burial
Pit. The burial pit was capped with a 20 mil liner. 5 bottom sample point		
native soil and contoured to the surrounding area.	s were until yees und met Nivioes standards. The	oursal pre and drining pre were ouestimed with ordar
native son and concoured to the surrounding area.		
		,
		the special section of the section o
I hereby certify that the information above is true and complete to the best has been/will be constructed or closed according to NMOCD guidelin  Date:	es 🖾, a general permit 🗌, or an (attached) alt	ernative OCD-approved plan .
Your certification and NMOCD approval of this application/closure does otherwise endanger public health or the environment. Nor does it relieve ulations.	not relieve the operator of liability should the con the operator of its responsibility for compliance w	tents of the pit or tank contaminate ground water or rith any other federal, state, or local laws and/or
Approval: Printed Name/Title	Accepted for rec	Ord DEC 1 7 2007

# Elke Environmental, Inc.

DEC 12 2007 OCD-ARTESIA

P.O. Box 14167 Odessa, TX 79768 Phone (432) 366-0043 Fax (432) 366-0884

December 4, 2007

EOG Resources Mr. Brett Grigry P O Box 3229 Carlsbad, NM 88220

Re:

Drilling Pit Closure of EOG Resources – Crusoe BKO Fed Com #1

UL 'A' Sec. 24 T16S R24E Eddy County

API # 30-015-34729

Mr. Brett Grigry,

Enclosed is the closure report for the Crusoe BKO Fed Com #1. NMOCD requires that an EOG Resources representative sign and date the final C-144 which is the very last page of the closure report. Then mail one copy to:

**NMOCD** 

Attn: Mike Bratcher 1301 W. Grand Ave. Artesia, NM 88210

If you have any questions about the enclosed report please feel free to contact me at the office.

Sincerely,

Logan Anderson

# **Closure Report**

Prepared for EOG Resources

Crusoe BKO Fed Com #1
API # 30-015-34729
Eddy County, NM

Prepared by Elke Environmental, Inc.

P.O. Box 14167 Odessa, TX 79768 Phone (432) 366-0043 Fax (432) 366-0884

# Elke Environmental, Inc.

P.O. Box 14167 Odessa, TX 79768 Phone (432) 366-0043 Fax (432) 366-0884

December 4, 2007

New Mexico Oil Conservation Division Mr. Mike Bratcher 1301 West Grand Ave. Artesia, New Mexico 88210

Re: Drilling Pit Closure of EOG Resources – Crusoe BKO Fed Com #1 UL 'A' Sec. 24 T16S R24E Eddy County, NM

API # 30-015-34729

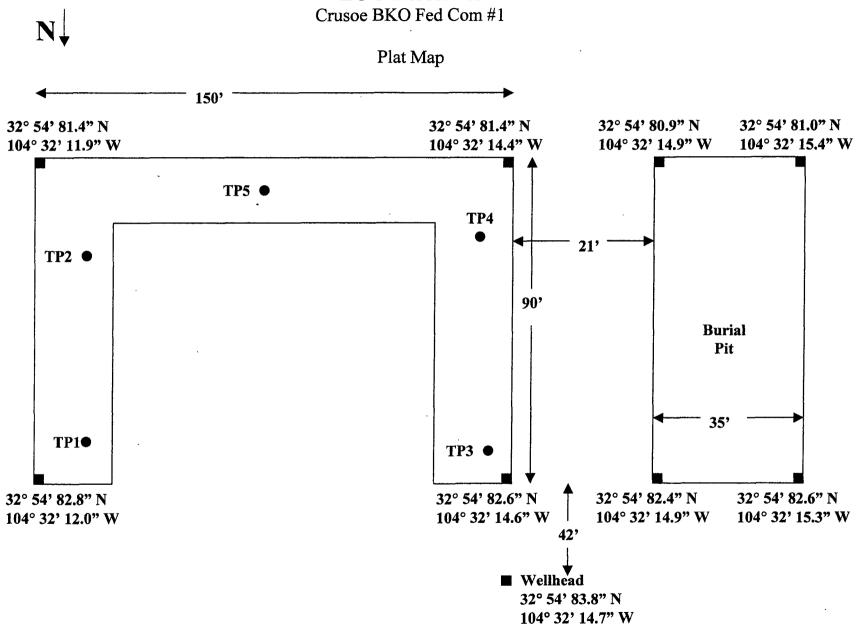
Mr. Mike Bratcher,

Elke Environmental was contracted by EOG Resources to complete the closure of the Crusoe BKO Fed Com #1 drilling pit. As per the C-144 filed and signed by Mike Bratcher on 11-26-07 a burial pit was constructed and lined with 12 mil liner. The drilling mud was mixed with dry soil to stiffen then placed in the burial pit. 5 bottom points were analyzed and met NMOCD standards. The burial pit was capped with a 20 mil impervious liner. The drilling pit and burial pit were then backfilled with clean native soil and contoured to the surrounding area. If you have any questions about the enclosed report please contact me at the office.

Sincerely,

Logan Anderson

# **EOG Resources**



# Elke Environmental, Inc. P.O. Box 14167 Odessa, TX 79768

# Field Analytical Report Form

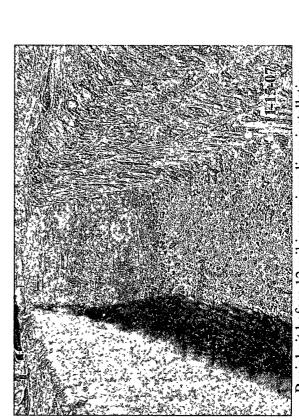
Client EOG Reso	ources	······	<del></del>	Analyst	Robert Spar	ıgler
ite <u>Crusoe BKC</u>	Fed Com#	1	Section 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.			
Sample ID	Date	Depth	TPH / PPM	Cl/PPM	PID / PPM	GPS
TP1	11-19-07	12'		195	9.3	32° 54' 82.3" N 104° 32' 12.3" W
TP2	11-19-07	123		187	3.7	32° 54' 81.6" N 104° 32' 12.3" W
TP3	11-19-07	12'		233	13.7	32° 54' 82.7" N 104° 32' 14.2" W
TP4	11-19-07	12'	-	174	5.3	32° 54' 81.9" N 104° 32' 14.3" W
TP5	11-19-07	12'		203	17.1	32° 54' 81.7" N 104° 32' 13.1" W
					-	
					7	
		-				

**Analyst Notes** 

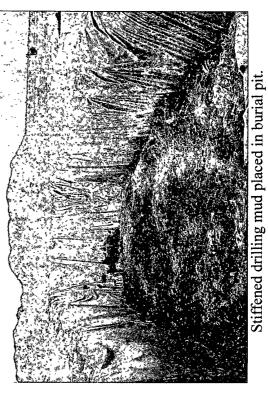


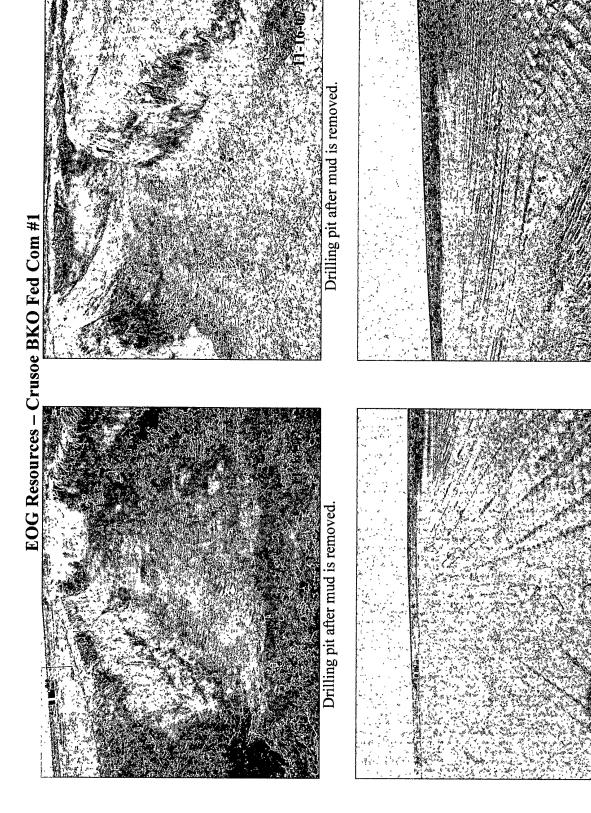
Drilling pit before closure.

Drilling pit before closure.



Burial pit before 12 mil impervious liner installation.





Drilling pit and burial pit after backfill and contouring.

Drilling pit and burial pit after backfill and contouring.

# **Analytical Report 293460**

for

Elke Environmental, Inc.

Project Manager: Logan Anderson

**EOG Resources** 

30-NOV-07



12600 West I-20 East Odessa, Texas 79765

A Xenco Laboratories Company

Texas certification numbers: Houston, TX T104704215

Florida certification numbers:
Houston, TX E871002 - Miami, FL E86678 - Tampa, FL E86675

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



30-NOV-07

Project Manager: Logan Anderson Elke Environmental, Inc. 4817 Andrews Hwy P.O. Box 14167 Odessa, tx 79768 Odessa, TX 79762

Reference: XENCO Report No: 293460

**EOG Resources** 

Project Address: CRUSOE BKO Fed #1

#### Logan Anderson:

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 293460. 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. 293460 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

Recipient of the Prestigious Small Business Administration Award of Excellence in 1994. Certified and approved by numerous States and Agencies.

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

Houston - Dallas - San Antonio - Austin - Tampa - Miami - Latin America



### **Sample Cross Reference 293460**

# Elke Environmental, Inc., Odessa, TX

**EOG Resources** 

Sample Id	Matrix	<b>Date Collected</b>	Sample Depth	Lab Sample Id
TP1@12'	S	Nov-19-07 13:00	12' ft	293460-001
TP2@12'	S	Nov-19-07 13:30	12' ft	293460-002
TP3@12'	S	Nov-19-07 14:00	12' ft	293460-003
TP4@12'	S	Nov-19-07 14:30	12' ft	293460-004
TP5@12'	S	Nov-19-07 15:00	12' ft	293460-005



# Certificate of Anal Summary 293460

#### Elke Environmental, Inc., Odessa, TX Project Name: EOG Resources

Project Id:

Contact: Logan Anderson

Project Location: CRUSOE BKO Fed #1

Date Received in Lab: Wed Nov-21-07 03:15 pm

Report Date: 30-NOV-07

Project Manager: Brent Barron, II

										Bitit Buildin,		
	Lab Id:	293460-0	001	293460-0	002	293460-0	003	293460-0	004	293460-0	005	
Analysis Requested Fie		TP1@1	2'	TP2@1	2'	TP3@1	2'	TP4@1	2'	TP5@1	2'	
Analysis Requesieu	Depth:	12' ft		12' ft		12' ft		12' ft		12' ft		•
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		
	Sampled:	Nov-19-07	13:00	Nov-19-07	13:30	Nov-19-07	14:00	Nov-19-07	14:30	Nov-19-07	15:00	
Percent Moisture	Extracted:											
1 22 22 23 24 24 24 24 24 24 24 24 24 24 24 24 24	Analyzed:	Nov-21-07	16:00	Nov-21-07	16:00	Nov-21-07	16:00	Nov-21-07	16:00	Nov-21-07	16:00	
	Units/RL:	%	RL	%	RL	%	RL	%	RL	%	RL	
Percent Moisture		9.27	1.00	7.66	1.00	15.4	1.00	9.91	1,00	9.57	1.00	
TPH by SW8015 Mod	Extracted:	Nov-28-07	11:00	Nov-28-07	11:00	Nov-28-07	11:00	Nov-28-07	11:00	Nov-28-07	11:00	
22 27 2 110022 11200	Analyzed:	Nov-29-07	12:21	Nov-29-07	12:47	Nov-29-07	13:13	Nov-29-07	13:39	Nov-29-07	14:05	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	
C6-C12 Gasoline Range Hydrocarbons		ND	16.5	ND	16.2	ND	17.7	ND	16.7	ND	16.6	
C12-C28 Diesel Range Hydrocarbons		ND	16.5	ND	16.2	ND	17.7	ND	16.7	ND	16.6	
C28-C35 Oil Range Hydrocarbons		ND	16.5	ND	16.2	ND	17.7	ND	16.7	ND	16.6	
Total TPH		ND		ND		ND		ND		ND		
Total Chloride by EPA 325.3	Extracted:											
	Analyzed:	Nov-26-07	00:00	Nov-26-07	00:00	Nov-26-07 (	00:00	Nov-26-07 (	00:00	Nov-26-07 (	00:00	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	
Chloride		93.8	5.51	138	5.41	75.4	5.91	354	5.55	. 141	5.53	

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 responsability and makes no warmally 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.

Since 1990 Houston - Dallas - San Antonio - Austin - Tampa - Miami - Latin America

Odessa Laboratory Director

## XENCO Laboratories

### 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.
- \* Outside XENCO'S scope of NELAC Accreditation

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

Certified and approved by numerous States and Agencies.

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

Houston - Dallas - San Antonio - Austin - Tampa - Miami - Latin America

	Phone	Fax
11381 Meadowglen Lane Suite L Houston, Tx 77082-2647	(281) 589-0692	2 (281) 589-0695
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	4 (201) 509-3335
2505 N. Falkenburg Rd., Tampa, FL 33619	(813) 620-2006	0 (813) 620-2033
5757 NW 158th St, Miami Lakes, FL 33014	(305) 823-8500	0 (305) 823-8555



# Form 2 - Surrogate Recoveries

**Project Name: EOG Resources** 

Work Order #: 293460

Project ID:

Lab Batch #: 709489

Sample: 293419-003 S/MS

Batch:

Matrix: Soil

Units: mg/kg	SURROGATE RECOVERY STUDY						
TPH by SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags		
Analytes			[D]				
1-Chlorooctane	105	100	105	70-135			
o-Terphenyl	43.2	50.0	86	70-135			

Lab Batch #: 709489

Sample: 293419-003 SD / MSD

Batch: 1

Matrix: Soil

Units: mg/kg	SURROGATE RECOVERY STUDY						
TPH by SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags		
Analytes			[D]				
1-Chlorooctane	111	100	111	70-135			
o-Terphenyl	45.9	, 50.0	92	70-135			

Lab Batch #: 709489

Sample: 293460-001 / SMP

Batch: 1

Matrix: Soil

Units: mg/kg	SU	SURROGATE RECOVERY STUDY						
TPH by SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags			
Analytes			[D]					
1-Chlorooctane	86.7	100	87	70-135				
o-Terphenyl	39.8	50.0	80	70-135				

Lab Batch #: 709489

Sample: 293460-002 / SMP

Batch: 1

Matrix: Soil

Units: mg/kg	SURROGATE RECOVERY STUDY						
TPH by SW8015 Mod  Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags		
1-Chlorooctane	91.1	100	91	70-135			
o-Terphenyl	42.0	50.0	84	70-135			

Lab Batch #: 709489

Sample: 293460-003 / SMP

Batch: 1

Matrix: Soil

Units: mg/kg	SURROGATE RECOVERY STUDY							
TPH by SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags			
1-Chlorooctane	93.7	100	94	70-135	<u> </u>			
o-Terphenyl	44.0	50.0	88	70-135				

<sup>\*\*</sup> Surrogates outside limits; data and surrogates confirmed by reanalysis

Surrogate Recovery [D] = 100 \* A / B

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

<sup>\*\*\*</sup> Poor recoveries due to dilution



### Form 2 - Surrogate Recoveries

**Project Name: EOG Resources** 

Work Order #: 293460

Project ID:

Lab Batch #: 709489

Sample: 293460-004 / SMP

Batch:

Matrix: Soil

Units: mg/kg	SURROGATE RECOVERY STUDY							
TPH by SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags			
<b>Analytes</b> ·		[ [	[D]					
1-Chlorooctane	95.5	100	96	70-135				
o-Terphenyl	43.9	50.0	88	70-135				

Lab Batch #: 709489

Sample: 293460-005 / SMP

Batch: 1

Matrix: Soil

Units: mg/kg	SURROGATE RECOVERY STUDY						
TPH by SW8015 Mod  Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags		
1-Chlorooctane	89.9	100	90	70-135	<u></u>		
o-Terphenyl	42.4	50.0	85	70-135			

Lab Batch #: 709489

Sample: 502009-1-BKS / BKS

Batch: 1

Matrix: Solid

Units: mg/kg	SU	SURROGATE RECOVERY STUDY												
TPH by SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags									
Analytes			[D]											
1-Chlorooctane	102	100	102	70-135										
o-Terphenyl	42.6	50.0	85	70-135										

Lab Batch #: 709489

**Sample:** 502009-1-BLK / BLK

Batch: 1

Matrix: Solid

Units: mg/kg	SURROGATE RECOVERY STUDY												
TPH by SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags								
Analytes		,-,	[D]	,	·								
1-Chlorooctane	96.5	100	97	70-135									
o-Terphenyl	44.3	50.0	89	70-135									

Lab Batch #: 709489

**Sample:** 502009-1-BSD / BSD

Batch: 1

Matrix: Solid

Units: mg/kg	SURROGATE RECOVERY STUDY												
TPH by SW8015 Mod  Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags								
1-Chlorooctane	102	100	102	70-135									
o-Terphenyl	42.4	50.0	85	70-135									

<sup>\*\*</sup> Surrogates outside limits; data and surrogates confirmed by reanalysis

Surrogate Recovery [D] = 100 \* A / B

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

<sup>\*\*\*</sup> Poor recoveries due to dilution



### **Blank Spike Recovery**

**Project Name: EOG Resources** 

Work Order #: 293460

Project ID:

Lab Batch #: 709254

Sample: 709254-1-BKS

Matrix: Solid

Date Analyzed: 11/26/2007

**Date Prepared:** 11/26/2007

Analyst: IRO

Reporting Units: mg/kg	Batch #: 1	BLANK /BLANK SPIKE RECOVERY STUDY											
Total Chloride by EPA 325.3	Blank Result [A]	Spike Added	Blank Spike Result	Blank Spike %R	Control Limits %R	Flags							
Analytes	[A]	[B]	[C]	[D]	70K								
Chloride	ND	100	91.5	92	75-125								

Blank Spike Recovery [D] = 100\*[C]/[B] All results are based on MDL and validated for QC purposes.



### **BS / BSD Recoveries**

Project Name: EOG Resources

Work Order #: 293460

Analyst: ASA

Project ID: Date Analyzed: 11/28/2007

Lab Batch ID: 709489

Sample: 502009-1-BKS

Date Prepared: 11/28/2007 Batch #: 1

Matrix: Solid

Units: mg/kg	BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY														
TPH by SW8015 Mod Analytes	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag				
C6-C12 Gasoline Range Hydrocarbons	ND	1000	854	85	1000	832	83	3	70-135	35					
C12-C28 Diesel Range Hydrocarbons	ND	1000	785	79	1000	757	76	4	70-135	35					

Relative Percent Difference RPD = 200\*|(D-F)/(D+F)| Blank Spike Recovery [D] = 100\*(C)/[B]

Blank Spike Duplicate Recovery [G] = 100\*(F)/[E]

All results are based on MDL and Validated for QC Purposes



### Form 3 - MS / MSD Recoveries

**Project Name: EOG Resources** 

Work Order #: 293460

Project ID:

Lab Batch ID: 709489

QC-Sample ID: 293419-003 S

Batch #:

Matrix: Soil

Date Analyzed: 11/29/2007

**Date Prepared:** 11/28/2007

Analyst: ASA

Reporting Units: mg/kg		M	IATRIX SPIK	E / MAT	RIX SPI	KE DUPLICA	TE REC	OVERY	STUDY		
TPH by SW8015 Mod	Parent Sample	Spike	Spiked Sample Result	Sample		Duplicate Spiked Sample	Spiked Dup.	RPD	Control Limits	Control Limits	Flag
Analytes	Result [A]	Added [B]	[C]	%R [D]	Added [E]	Result [F]	%R [G]	%	%R	%RPD	
C6-C12 Gasoline Range Hydrocarbons	ND	1270	1070	84	1270	1110	87	4	70-135	35	
C12-C28 Diesel Range Hydrocarbons	ND	1270	965	76	1270	1000	79	4	70-135	35	

Lab Batch ID: 709254

**QC-Sample ID:** 293460-003 S

Batch #:

Matrix: Sludge

Date Analyzed: 11/26/2007

Date Prepared: 11/26/2007

Analyst: IRO

Reporting Units: mg/kg	MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY														
Total Chloride by EPA 325.3	Parent Sample	Spike	Spiked Sample Result	Sample		Duplicate Spiked Sample	•	RPD	Control Limits	Control Limits	Flag				
Analytes	Result [A]	Added [B]	[C]	%R [D]	Added [E]	Result [F]	%R [G]	%	%R	%RPD					
Chloride	75.4	1180	. 1260	100	1180	1260	100	0	75-125	30					



# **Sample Duplicate Recovery**

**Project Name: EOG Resources** 

Work Order #: 293460

Lab Batch #: 709136

Project ID:

Reporting Units: % SAMPLE / SAMPLE DUPLICATE RECOVERY

xteporang emiss.	J OILWIN EE,	DIRIVER EDES .	DOILIC	TIL ICEC	OVER
Percent Moisture	Parent Sample Result [A]	Sample Duplicate Result	RPD	Control Limits %RPD	Flag
Analyte		[B]			
Percent Moisture	21.0	21.7	3	20	

 Lab Batch #: 709137

 Date Analyzed: 11/21/2007
 Date Prepared: 11/21/2007
 Analyst: RBA

 QC- Sample ID: 293460-002 D
 Batch #: 1
 Matrix: Soil

Reporting Units: %	SAMPLE /	SAMPLE / SAMPLE DUPLICATE RECOVERY											
Percent Moisture  Analyte	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag								
Percent Moisture	7.66	8.20	7	20									

99
•
_
72
₽,
-
·

∕N\ Xenco	/ironment	ai Lab (	OT 16	exa	as	g Politik Berioter				1260	00 We	st i	HAIN -20 Ea as 797	st	CÜS	ŢŌĐΊ	RE	CO	RD ,	AND	1	1		215	<i>COUE</i> 83-11 83-1	800	٠,		i j	٠,	,
· ' .	Project Manager:	Logan Ande	reon						Ì.,	- μģ	asa,	IUX	88 /9/		, '			وران فائدہ		E	34	40	723	157.		ces		¥ .	4.5	4	,
,		-	\$ 55.50	140 %	312				<del>`</del>		<u> </u>		<del></del>			٠.,		****	14.	- Meson		17.1	<u> </u>	<u></u>	YK.	<u>.,,</u>	<b>2</b>		-	7, 100	
,	Company Name	Elke Enviror	menta	<u> </u>	10718	·	* 12 × 1	٠,,		* 5			<del></del> -	24.	1.2			Proj			274	<u>.                                    </u>	500	<u> </u>	25	<u>*</u>	<u>. اُوَدُّ مِ</u> الاهادات		**************************************	$\frac{(r_{ij})^2}{2\sqrt{r_i}}$	e,
٠,٠	Company Address:	P O Box 14	67	, E	10,5	W. S. C.	<u> </u>	٠ ,		-		31	· · · · ·	- 7			Pr	oject	Loc	<u>. (</u>	R	<u>) S</u>	<u> 0 E</u>		<u>3K</u>	υF	ed	#.	<u>1</u>	: ــــــــــــــــــــــــــــــــــــ	
	City/State/Zip.	Odessa; TX	79768	δį.	١,		', "" ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' '	٠,	j,		104	.'	, 8 ,					; 1	PO#	::			, vi	' ' '	- 6	강성.	- }	715	<u>-, 8</u>	-	
	Telephone No	432-366-004	3				Fax No	· ,	432	2-36	66-0	884	4 :	۲.,		Ror	ort i	Form	at• .	R	Siar	dard	57	-0	TRI	RP.	ं।	NPI	ÓÉS	4	
	Sampler Signature:	10111	2		12		− 		- 75.	15.75		7,1	yaho			,	,			,_	,			-	.,	Ž,	•	, ,,			٠,
	Sampler Signature.	Notes	100	ang L	-	<del></del>	- 1/10 A-11HBI	ŗ.	Id	GIVE	90114	<u>.</u>	ya110	0.0	Ons		Г		-		235°	Ana	ivze i	or:		5 pt 5	ъ,	2	$\neg$		1
8b U59	only) 29346	λ	1		. ,	4	1.4					٠.	ί,				٠F	_		, 10	DLP.	7 6		F	-	П	T	$\blacksquare$	G.		
RDE	R#: 67074	Ų		<del>,</del>	· ·	- 301520	<u>is 15</u>			Þy	0 FG FY B	ion 8	H of Co	main.	ers ~	- Matr	×	g:	7	T	- 1	8	1.	8260	1.	-	-		4		
	,				1.0		T.					1				2 A		8 8		-		2	1	enex 82					eftile) 24,	1	
Ę,			٠,	-5	1				100		1.	1,			11	Softs	i		Ä	Neigh		Š		16.0		П			1	1	
ise o				Dept	Dopth	P P	Sampled		attente	1		,	Į. Į.		14	3	8	9	5	ð.	2	Be de	1.	0000					£ 1	ž	
# (fab use only)		,	- 1	leginning	Ş	Sampk	Sam	1	5	-	4.	_	ءِ ا		Spe	Line	O.	Z X	قِ	6	l dS3	2	1	120	.,	<u>ن</u> وا	.		ž i	2	J.
# 8	FIELD	D CODE		3eg	nding	a a	E	1	8	8 3	Į.	8	₹ 4	į	Street	W. W.		Ĕ	affer	None:	SAR	e l	AL S	BIE	ũ	NOR			HS SH	a l	
71.	TP19 12'	7 POST		87	12'	11:19-07	1:00 Pm		T.	1		1		1		5			1.	i.	Ť	7		1	Ā	Ť	34	$\Box$	7	4	. :
62	7/29 12'	S 2 2 2	1	· .	120	11-19-07	1:30 pm	23	11	7		1	П	7		5	Ĭ,	1		1		1	1			$\top$	1	П	ीं	1	·
05	713912				/2'	11-19-07	2:00 /	,	Я¥.		Ŀ	L		I	V. v	S	, ,	ι, ' <i>'</i> ,	( i	1	. '	T				I	I	$\square$		]	-
ö4	T140112'				D'	11.19-07	3:30 pm	ė	11	1	m 4.	Ľ				. (9		1	L	$\mathcal{A}$		I	4 1	Ш							
05	TP5 @ 12'	<u> </u>			10'	11-19-07	3:00 pm	1		1	ie (C)		11	1	Ц	<u>ع</u>	1	1	T.		1	1	1	Ľ	Li	4	4.	Ц		4	
		1 1 1		è.	<b>-</b> -	<u> </u>	<del> </del>	500		() F	180	1	70.0	3 1 2 3		1000	+	4	1	Н	-	-	100	Н		4	1	$\dashv$	4	4	
	<u> </u>			<del>                                      </del>		-	<del> </del>	-			3 3		9	155		· · · ·	+	+	1	$\vdash$	4	4	1	Ы		-	+	-	+	4	
	<del> </del>		7.5	7	-		1 4 2 1	+	H	1					1	1 <u>3.1</u> 91.374	+	+	+	H	1/2	-		H		+	+-	++	+	-	
	1		127	A. 7	-			۲		+	7.0	1				2 . 2.	1	+	+	H	+	1	-		-	4	+	+	+	+	
pecial	instructions:	<del></del>	<del>ا ، د</del>		<del>                                     </del>			•	<b></b>	بـــــــــــــــــــــــــــــــــــــ	لبا		Water Maley	**************************************	3	- 10	71	N. C			ory (				<del>- 4</del>	10%	75	ica/	5,	1	
	<i>;</i> •			10	÷.,	<u>.</u>		- '				dis.	پروز ماره الاين	1	4		عي ه مراد ع	, 14 0 1 1	lvo	೧೬೯	Cont	i Nan'r	adé na	607		~	8	, , h	1 .	7	
telmout	shed by		Dats .	17.	91	Received by		, `			16 42	18.5	500	F.,	Dat		Tir	në ,	Lat	els o	n cor sesi	tairi	n(s) conte	inari	s)		\$	١	,	1	
	ished by		Dale	7,11	1.707	Received by	Janes di	_		1	1	The E	7 (14)	Ţ.	Dav	1	Tir	De.	Cus	tody	888I	On I	DOO!B	(8)	-,	,	(SOB)	. N	1	1.	
វុធាឃជភា	/ In routed	· 1 ·		- 4			17.70	عزر				۲.		٠.		· 1	,	1 <b>70</b>	38	by S	Hand ample ourier	1/0/	ent Pic	7	DHL		.0	N Lone	ł n	1,0	,

#### Environmental Lab of Texas

Variance/ Corrective Action Report- Sample Log-In

Client	tke Enviro.				
Date/ Time.	11/2/101 15:15				
Lab ID#	29460				
Initials:	grist				
	Sample Receipt	Checklist			
				Clier	nt Initials
#1 Tempera	ature of container/ cooler?	Yes	No	0.5 °C	
	container in good condition?	VES.	No		
#3 Custody	Seals intact on shipping container/ cooler?	XE6	No	Not Present	
#4 Custody	Seals intact on sample bottles/ container?	Yes	No	Not Present	
	f Custody present?	Yes	No		
	Instructions complete of Chain of Custody?	Yes	No		
	f Custody signed when relinquished/ received?	Yes	No		
	Custody agrees with sample label(s)?	∠/es	No	ID written on Cont / Lid	
#9 Contain	er label(s) legible and intact?	χ <del>έ</del> β3	No	Not Applicable	
#10- Sample	e matrix/ properties agree with Chain of Custody?	₹ es	No	Tributa	
	ners supplied by ELOT?	(Yes	No		
	es in proper container/ bottle?	(Yes	No	See Below	
	es properly preserved?	Yes	No	See Below	
	e bottles intact?	Yes	No		
	vations documented on Chain of Custody?	(Yes,	No	<del>                                     </del>	
	ners documented on Chain of Custody?	(Yes	No		
	ent sample amount for indicated test(s)?	₹ <b>98</b>	No	See Below	
	nples received within sufficient hold time?	Yes	No	See Below	<del></del>
	ontract of sample(s)?	Yes	No	Not Applicable	
	samples have zero headspace?	Yes	No	Not Applicable	
1#20 VOC 8	Samples have zero meadspace:	1 (198	1 110	1 Not Applicable 1	
	Variance Docu	mentation			
Contact.	Contacted by:	-		Date/ Time	
,		****	-		
Regarding					
, ,					
				- · · - · · · · · · · · · · · · · · · ·	
Corrective .	Action Taken:				
				· · · · · · · · · · · · · · · · · · ·	
					· · · · · · · · · · · · · · · · · · ·
				· · · · · · · · · · · · · · · · · · ·	
Check all t	hat Apply: See attached e-mail/ fax				
	Client understands and wo	uld like to pro	ceed wit	h analysis	
	Cooling process had begut	shortly afte	r samplin	g event	
	:	•	•	-	