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

			Rele	ease Notific	ation	and Co	rrective A	ction			~~	
						OPERA	TOR	[Initi	al Report		Final Report
Name of Co						Contact Par						
				lland, Texas 79			No. 432-683-43	40				
Facility Nar	ne Jalma	t Yates Unit	: #7			Facility Typ	e Gas Well					
Surface Ow	ner Greg	Fulfer		Mineral C)wner					No. 3010 4		
				LOCA	OITA	N OF REI	LEASE	P	१८। (30 02	-5 8	09747
Unit Letter	Section	Township	Range	Feet from the	North/	South Line	Feet from the	East/W	est Line	County		
0	12	25S	36E	990	Se	outh	1650	Eas	st	Lea		
				Latitude 32	2.13752	Longitue	de 103.21412					
				NAT	URE	OF REL	EASE					
Type of Rele		ced water					Release 6 BO, 7			Recovered		
Source of Re Hole in flow						I	Iour of Occurrenc ne unknown	1		Hour of Dis		
Was Immedi	ate Notice (Yes	No Not R	eguired	If YES, To	Whom? age w/ Hobbs NM	40CD	-			
By Whom?	COG emn	loyee Boyd C				Date and I			_			
Was a Water		ched?					olume Impacting t	the Water	course.	•		
	·		Yes 🗵									
If a Watercou	ırse was Im	pacted, Descr	ibe Fully.	*				. 27773. 4 0	·			
								R		IVE		
			,						THE CASE III	ere v can	D GENT	
Describe Cau		em and Reme	dial Actio	n Taken.*					APR 0	3 2008		
Hole III How	ime										100	ea _{to}
									DD	15 O		
		and Cleanup										
				fluids. The spil illed to remediat								
				the RRAL. A cl								
I hereby cert	fy that the	information g	iven above	e is true and comp	lete to t	he best of my	knowledge and u	ınderstan	d that pur	suant to NM	10CD r	ules and
				nd/or file certain i ce of a C-141 rep								
should their	perations h	nave failed to	adequately	investigate and i	emediat	e contaminati	on that pose a thr	reat to gro	ound wate	er, surface w	ater, hu	man health
				otance of a C-141	report d	loes not reliev	e the operator of	responsib	oility for	compliance	with an	y other
federal, state	or local la	ws and/or regi	liations.				OIL CON	CEDV	A TION	DIVICI	ONI	
		12.6	.0		ľ	OIL CONSERVATION DIVISION						
Signature:	ory	12.8	Clis			Annroued by	District Currentie		1 -		-0	
Printed Name	e: Pat Ellis				Approved by District SUPENISON MENTAL ENGINEER							
Title: EA	1,5 6	oppdina)	lor_		Approval Date: 4.4.08 Expiration Date:							
E-mail Addre	ess: PEllis(@conchoresou		the s	Conditions of Approval:							
Date: 3-2			Phone	432 : 683-74	43				/			1033
* Attach Addi	tional She	ets If Necess	arv	~ •	_	<u></u>						

SITE INFORMATION Type of Report: CLOSURE REPORT 1 RP-1033 General Site Information: Jalmat Yates Unit, Well #7 Site: COG Operating Company Company: Well Location: Section 12, T25S, R36E, Unit Letter O Spill Location: Section 13, T25S, R36E, Unit Letter A 301048 Lease Number: Lea County: 32.13752, 103.21412° Spill Area GPS: Greg Fulfer Surface Owner: Mineral Owner: Directions: From Jal, New Mexico, intersection of Hwy.18 and Hwy. 128, go 1.1 miles (west) on 128, turn right (north) into lease road, go north 0.8 miles and turn left (west) and go 0.4 mile pass the Jalmat Yates Tank Battery and turn right (north), go 0.2 miles and spill area is located east and west of lease road. (flowline east of road). Release Data: Date Released: 9/5/2006 produced water and crude oil Type Release: Source of Contamination: Hole in flow line 6 bbls oil and 75 bbls of water Fluid Released: 1 barrel oil and 5 barrels of water Fluids Recovered: Official Communication: Name: Pat Ellis Ike Tavarez Company: COG Operating, LLC Highlander Environmental Corp. Address: 550 W. Texas Ave. Ste. 1300 1910 N. Big Spring P.O. Box City: Midland Texas, 79701 Midland, Texas Phone number: (432) 683-4340 (432) 682- 4559 Fax: (432) 683-7441 (432) 682-3946 PEllis@conchoresources.com Email: itavarez@hec-enviro.com Ranking Criteria Depth to Groundwater: Ranking Score Site Data <50 ft 20 50-99 ft 10 Greater 50' >100 ft. 0 WellHead Protection: Ranking Score Site Data Water Source <1,000 ft., Private <200 ft. None Water Source >1,000 ft., Private >200 ft. None Surface Body of Water: Ranking Score Site Data <200 ft. 20 None 200 ft - 1,000 ft. 10 None >1,000 ft. n None Total Ranking Score: 10 received

Acceptable Soil RRAL (mg/kg)								
Benzene	Total BTEX	TPH						
10	50	1,000						

APR 03 2008





Highlander Environmental Corp.

Midland, Texas

March 25, 2008

Mr. Larry Johnson **Environmental Engineer Specialist** Oil Conservation Division- District I 1625 N. French Drive Hobbs, New Mexico 88240

RE: 1 RP - 1033

Closure Report

COG Operating Company LLC, Jalmat Yates Unit Well #7, Unit Letter O, Section 12, Township 25 South, Range 36 East, (Flow-line Spill is Located in Unit Letter A, Section 13, Township 25 South, Range 36 East), Lea County, New Mexico.

Dear Mr. Johnson:

Highlander Environmental Corp. (Highlander) was contacted by COG Operating Company LLC (COG) to assess and to remediate the soil impact from a flow-line spill that occurred at the Jalmat Yates, Well #7, located in Unit Letter O, Section 12, Township 25 South, Range 36 East, Lea County, New Mexico. The flow-line spill is located in Unit Letter A, Section 13, Township 25 South, Range 36 East. The spill site coordinates are N 32.13752°, W 103.21412°. The State of New Mexico C-141 (Initial) is included in Appendix C. The Site is shown on Figure 1.

Background

On September 5, 2006, the spill was discovered from a leaking flow-line, located approximately 1,400' northwest of the COG main tank battery. Approximately 6 barrels of oil and 75 barrels of water were spilled and an estimated 1 barrel of oil and 5 barrels of water were recovered. The surface impacted area measured approximately 1' to 2' wide and extended approximately 34 mile from the release. The impacted area is further discussed in the Soil Sampling Section of the report. The spill location is shown on Figure 2.

Groundwater and Regulatory

The spill area is located in Section 13, Township 25 South, Range 36 East. The State of New Mexico Well Reports did not show any water wells in Section 13. However, there were water wells shown in Sections 19 and 20, Township 25 South, Range 37 East with an average groundwater depth of approximately 34' to 44' below surface.

Published data, from the Geology and Groundwater Conditions in Southern Lea County New Mexico, showed wells in Section 15 and 23, Township 25 South, Range 36 East with a reported depth of 120' and 53.7', respectively. In Sections 17, 19 and 20, Township 25 South, Range 37 East, water wells showed average groundwater depths of approximately 62' to 65' below surface. In addition, the USGS data base reported a depth to water at 51'in the southeast quarter of Section 18, Township 25 South, Range 37 East. A monitor well, located in the western edge of Section 18, reportedly had a water level of approximately 63.0' in 2004. Based on the relative elevation of the Site and surrounding wells, the groundwater appears to be greater than 50.0' below surface. The State of New Mexico Well Reports, USGS report and published reports are included in Appendix A.

A risk-based evaluation was performed for the Site in accordance with the NMOCD Guidelines for Remediation of Leaks, Spills and Releases, dated August 13, 1993. The guidelines require a risk-based evaluation of the site to determine recommended remedial action levels (RRAL) for benzene, toluene, ethylbenzene and xylene (collectively referred to as BTEX) and total petroleum hydrocarbons (TPH) in soil. The proposed RRAL for benzene was determined to be 10 parts per million (ppm) or milligrams per kilogram (mg/kg) and 50 ppm for total BTEX (sum of benzene, toluene, ethylbenzene and xylene). Based on the regional groundwater data, the proposed RRAL for TPH is 1,000 mg/kg.

Previous Assessment

On September 9, 2006, Highlander personnel inspected and sampled the spill area. At the release point, the majority of the surface staining was observed along the flow line measuring approximately 12' x 60'. Samples were not collected due to the dense caliche formation encountered in the shallow soils. To assess the soils, a total of sixteen (16) auger holes were installed in areas where surface staining was observed west of the release.

The spill ran west impacting an area of approximately 350' x 1'. During a heavy rain, the rainwater (runoff) had carried some of the oil across the lease road down an area measuring approximately 800' x 1.0'. The spill then extended down to another lease road. Apparently, some oil was then washed down south 680' along the lease road causing some minor staining. Some staining was also observed west of the lease road in an area measuring 200' x 1'. From this point, small stained areas (spots) and stained

Midland, Texas

vegetation were noted to the west for approximately 1,000'. The location of the auger holes are shown on Figure 2. The results are summarized in Table 1.

Referring to Table 1, the impacted areas (225' x 1.0'), immediately west of the flow lines, did show TPH and BTEX concentrations above the RRAL in AH-1, AH-2 and AH-3 at 1.0' to 2.0' below surface. The chloride concentrations detected in AH-1 and AH-2 did not show a significant impact to the soils. However, AH-3 did exhibit some increasing chloride concentrations with depth to 1,380 mg/kg at 2.0' below surface.

Auger holes (AH-4 through AH-13) were installed west of the lease road in the area measuring approximately 800' x 1.0'. Only four (4) auger holes (AH-4, AH-5, AH-7 and AH-12) exceeded the RRAL at 0-0.5' for TPH and the deeper samples at 0.5-1.0' were all below the RRAL. The remaining auger holes were all below the RRAL for TPH from 0-0.5' below surface. The chloride concentrations were not significant in these areas ranging from <20 mg/kg to 53.2 mg/kg. In the area measuring 200' x 1.0', auger holes (AH-14, AH-15 and AH-16) were placed and did not show any TPH exceeding the RRAL in the 0-0.5' samples. The chloride concentrations were below the reporting limit of <20 mg/kg.

Based on the results, Highlander submitted a work plan, dated October 3, 2006 to the NMOCD for review.

Remediation and Confirmation Sampling

As proposed, the flow line (release point) and the areas of auger holes (AH-1, AH-2 and AH-3) were excavated and approximately 800 cubic yards of material was hauled to Sundance Services for disposal. The areas of auger holes (AH-4 through AH-16) were tilled to aid the degradation of the surface impact. In addition, any other impacted areas found west of the auger holes were remediated.

The excavated area at the release point measured approximately 15' x 80' at depths ranging from 4.0' to 14.0' below surface. As shown on Figure 3, sidewall and bottom hole confirmation samples were collected from the excavated areas and are summarized in Table 2. In addition, the areas of AH-1, AH-2 and AH-3 were also excavated to depths of 2.0' to 4.0' below surface and the material hauled to disposal. The excavation of this area is shown on Figure 4. The remaining runoff areas were tilled and fertilized. Confirmation samples collected from these areas SS-4, (AH-4), SS-5 (AH-5) and SS-7 (AH-7) are summarized in Table 3.

Soil samples were analyzed for Total Petroleum Hydrocarbon (TPH) by method modified 8015 DRO/GRO and chloride by EPA method 300.0. Selected samples were analyzed for benzene, toluene, ethylbenzene, and xylene (BTEX) by EPA method 8021B. All samples were collected and preserved in laboratory prepared sample containers, shipped under proper chain-of-custody control, and analyzed within the standard holding times. The sample results are presented in Tables 2 and 3. The laboratory reports are included in Appendix B.

Soil Sample Results and Conclusion

Referring to Table 2, the confirmation samples showed no TPH and BTEX concentrations above the RRAL. The chloride concentrations detected in the bottom hole samples ranged from 12.8 mg/kg to 774 mg/kg. However, the chloride levels decreased with depth and do not appear to an imminent threat to groundwater.

Based upon the results of the assessment, COG requests closure of this spill issue. The State of New Mexico C-141 (Final) is included in Appendix C. If you require any additional information or have any questions or comments, please contact us at (432) 682-4559.

Highlander Environmental Corp.

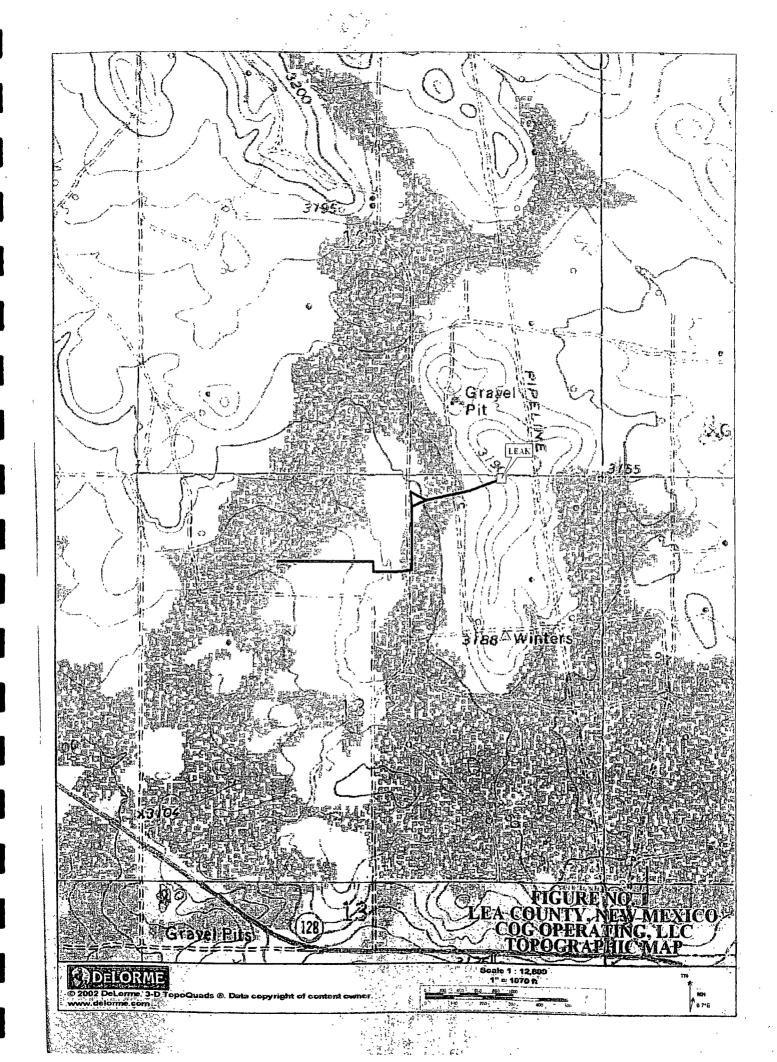
Ike Tavarez, P.G.

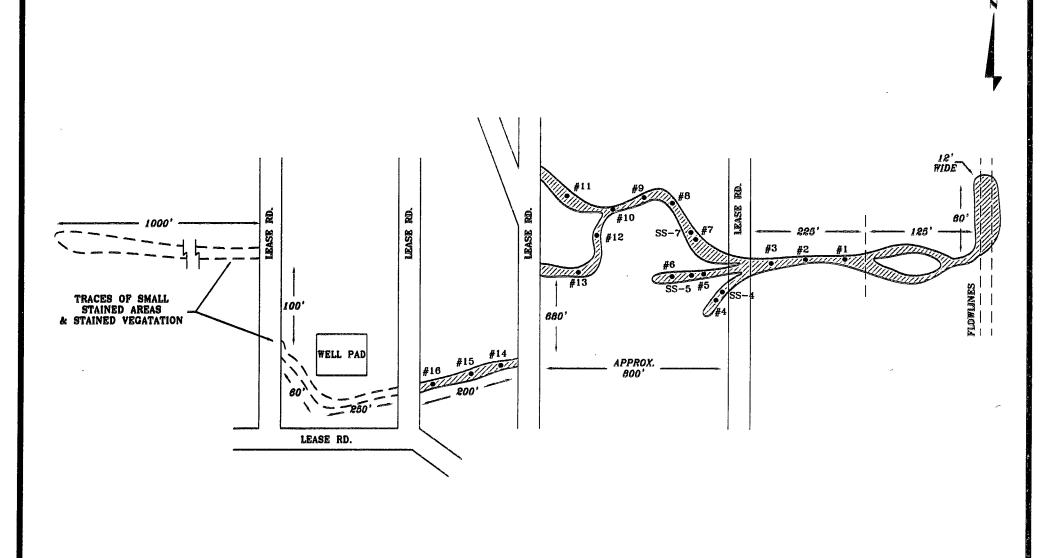
Project Manager/Senior Geologist

cc: COG - Pat Ellis



FIGURES





SPILL AREA

• SAMPLE LOCATIONS

FIGURE NO. 2

LEA COUNTY, NEW MEXICO

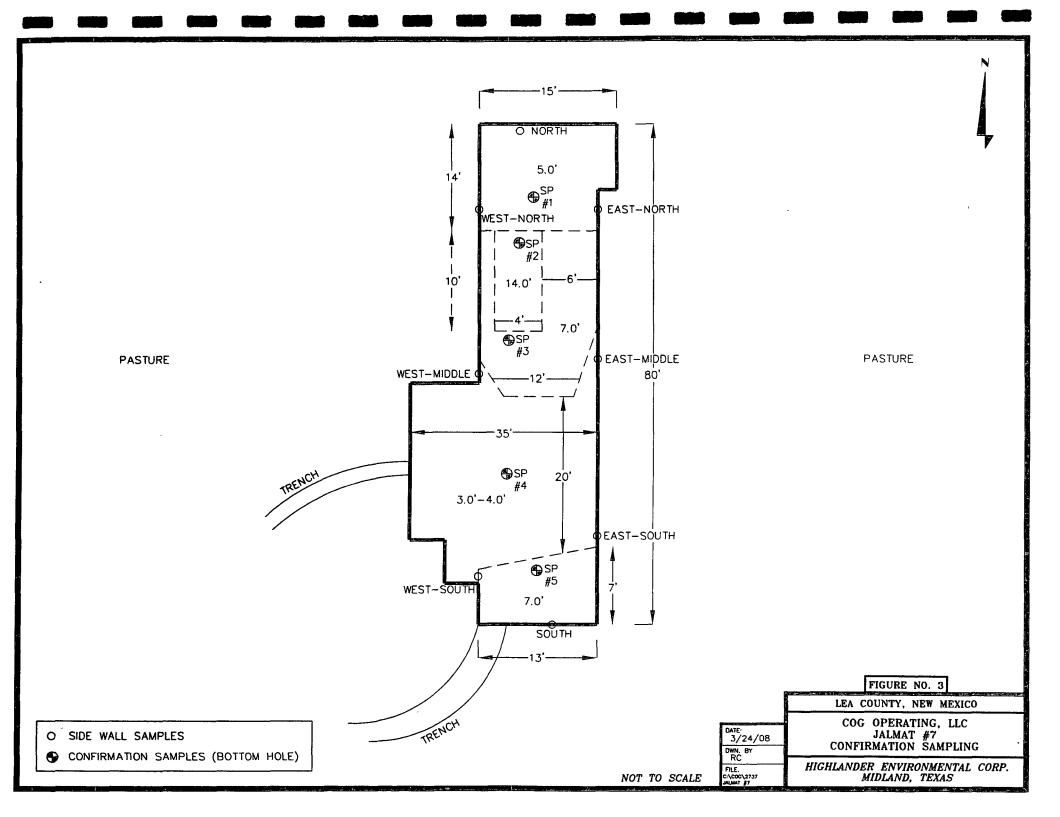
COG OPERATING, LLC
JALMAT #7

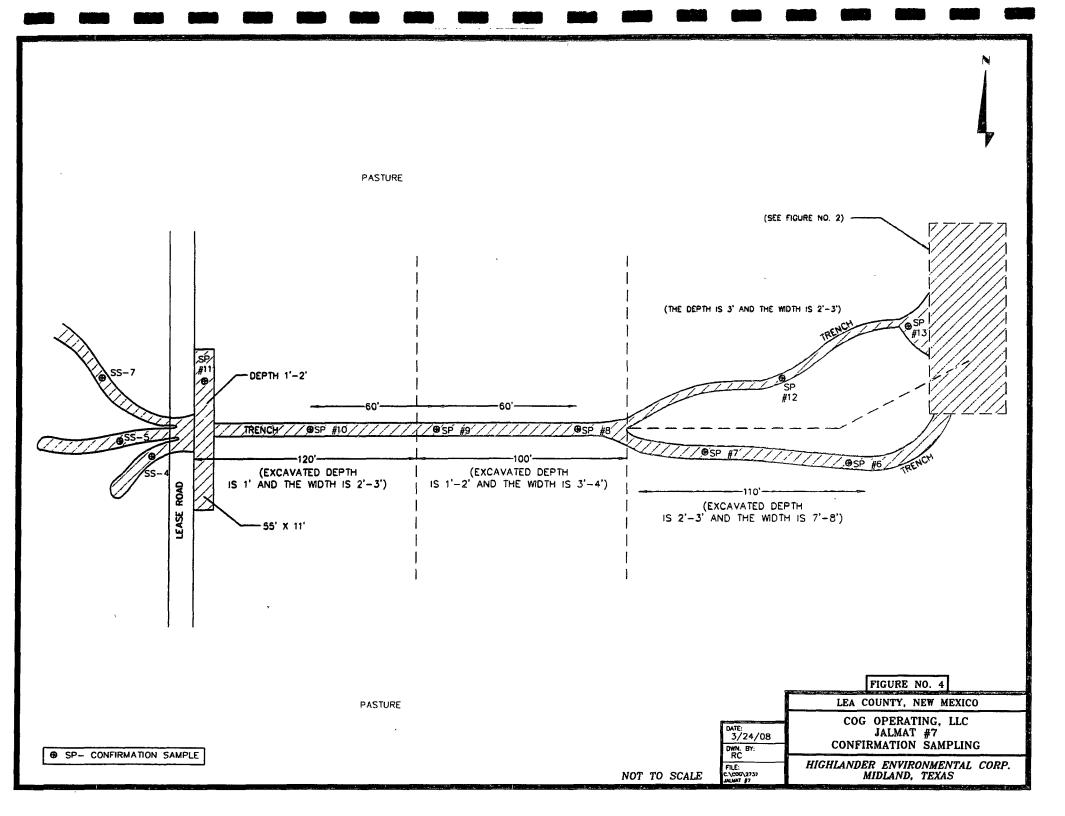
ASSESSMENT SAMPLING

FILE:
CNCOCY2737
ALMAT #7

HIGHLANDER ENVIRONMENTAL CORP.
MIDLAND, TEXAS

NOT TO SCALE





TABLES

Table 1
COG Operating

JalMat Well #7 - Flowline Leak

Lea County, New Mexico

Sample	Date	Soil S	Status	Sample		TPH (mg/kg	<u>(j)</u>	Benzene	Toluene	Ethlybenzene	Xylene	Chloride
ID	Sampled	Insitu	Removed	Depth (ft)	C6-C12	C12-C35	Total	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
AH-1	9/18/2006		X	0-1.0'	7640	23680	31300	0.413	11.4	23.9	72.3	383
AH-1	9/18/2006		X	1.0'-1.5'	3640	11423	15100	0.0723	3.67	11.5	35.2	351
AH-1	9/18/2006		X	2.0'-2.5'	<10.0	179.0	179	< 0.025	<0.025	<0.025	< 0.025	128
							······································					
AH-2	9/18/2006		X	0-1.0'	4570	13260	17800	0.0469	1.59	3.86	12.09	106
AH-2	9/18/2006		Х	1.0'-1.5'	10.9	107.3	118	-	-	-	_	<20
AH-2	9/18/2006		X	2.0'-2.5'	13.3	134.5	148	-	-	-	-	<20
AH-3	9/18/2006		X	0-1.0'	3970	13828	17800	0.0215	1.52	5.42	14.1	638
AH-3	9/18/2006		X	1.0'-1.5'	<10.0	20.6	20.6	-	_	-	-	830
AH-3	9/18/2006		X	2.0'-2.5'	<10.0	<10.0	<10.0	-	-	-	-	1,380
AH-4	9/18/2006			0-0.5	32.8	1115	1150	<0.025	<0.025	<0.025	<0.025	<20
AH-4	9/18/2006			0.5'-1.0'	<10.0	18.2	18.2	-	-	-	-	<20
AH-5	9/18/2006	X	1	0-0.5'	160	1476	1640	<0.025	<0.025	0.0262	0.123	21.3
AH-5	9/18/2006			0.5'-1.0'	<10.0	<10.0	<10.0	-	-	-	-	53.2
AH-6	9/18/2006	X		0-0.5'	58.6	776.5	835	<0.025	<0.025	<0.025	< 0.025	21.3
AH-6	9/18/2006			0.5'-1.0'	-	-		-	-	-	-	21.3
AH-7 .	9/18/2006	X		0-0.5'	472	3118	3590	-	-	-	-	21.3
AH-7	9/18/2006			0.5'-1.0'	<10.0	<10.0	<10.0	-	-	-	_	21.3
AH-8	9/18/2006	X		0-0.5'	<10.0	34.2	34.2	-		-		<20
AH-8	9/18/2006			0.5'-1.0'	-	-	•	-	_	-	-	<20

(-) Not Analyzed

Table 1
COG Operating
JalMat #7 Well Flowline Leak
Lea County, NM

Sample	Date	Soil	Status	Sample		TPH (mg/kg)	Benzene	Toluene	Ethlybenzene	Xylene	Chloride
ID	Sampled	Insitu	Removed	Depth (ft)	C6-C12	C12-C35	Total	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
AH-9	9/18/2006	X		0-0.5'	<10.0	<10.0	<10.0	-	-	-		<20
AH-9	9/18/2006			0.5'-1.0'	-		-	-	-	-	•	<20
AH-10	9/18/2006	X		0-0.5'	<10.0	48.3	48.3	-	-	•	•	<20
AH-10	9/18/2006		·	0.5'-1.0'	-		-	-	-	-		<20
AH-11	9/18/2006	X		0-0.5'	<10.0	272	272					<20
AH-11	9/18/2006			0.5'-1.0'	-	-	-	-	-	-	-	<20
AH-12	9/18/2006	X		0-0.5'	<10.0	1214	1210	-	-	-	-	<20
AH-12	9/18/2006			0.5'-1.0'	<10.0	<10.0	<10.0	-	-	-	-	<20
AH-13	9/18/2006	X		0-0.5'	<10.0	58.6	58.6	-	-	-	-	<20
AH-13	9/18/2006			0.5'-1.0'	-	-	-	-	-	-	-	<20
AH-14	9/18/2006	X		0-0.5'	<10.0	124	124	-	-	-	-	<20
AH-14	9/18/2006			0.5'-1.0'		-	-	-	-	-	-	<20
AH-15	9/18/2006	X		0-0.5'	27.5	501.5	529	-	-	-	-	<20
AH-15	9/18/2006			0.5'-1.0'	-	_	-	-	•	-	-	<20
AH-16	9/18/2006	X		0-0.5'	27.4	797	824	-	-	-	-	<20
AH-16	9/18/2006			0.5'-1.0'	-		-	-	-	-	-	<20
())] () -				<u> </u>								

(-) Not Analyzed

Table 2 COG Operating

JalMat Well #7 - Flowline Leak

Confirmation Sampling

Lea County, New Mexico

Sample	Date	Soil S	Status	Sample		TPH (ng/kg)		Benzene	Toluene	Ethlybenzene	Xylene	Chloride
ID	Sampled	Insitu	Removed	Depth (ft)	C6-C12	C12-C28	C28-C35	Total	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
SP #1	10/30/2006	X		0-1.0'	<10.0	<10.0	<10.0	<10.0	<0.0250	< 0.0250	< 0.0250	< 0.0250	12.8
SP #2	10/30/2006	X	ļ	0-1.0'	<10.0	<10.0	<10.0	<10.0	< 0.0250	< 0.0250	< 0.0250	< 0.0250	608
SP #2	10/30/2006	X		1-1.5'	-	-	_		-	-	-	-	553
SP #2	2/28/2007	X		2'-2.5	-	-	-	-	-	-	-	-	189
			ļ							-			
SP #3	10/30/2006	X		0-1.0'	<10.0	<10.0	<10.0	<10.0	< 0.0250	<0.0250	<0.0250	< 0.0250	124
GD //4	10/20/2006	7.	<u> </u>	2.1.0	100	10.0	- 100						
SP #4	10/30/2006	X		0-1.0'	<10.0	<10.0	<10.0	<10.0	<0.0250	<0.0250	<0.0250	< 0.0250	589
SP #4	10/30/2006	X		1-1.5'									. 214
CD #6	10/20/2006	37		0.1.01	-10.0	-10.0	-10.0	-10.0	-0.00.50	.0.0250	10.0050	.0.0050	201
SP #5 SP #5	10/30/2006	X		0-1.0'	<10.0	<10.0	<10.0	<10.0	< 0.0250	<0.0250	<0.0250	<0.0250	701
SP #5	10/30/2006 2/28/2007	X		1-1.5'	-	-	-	-	-	-	-	-	514
SP #3	2/28/2007	Λ		2'-2.5'	-	-			-	-	-	-	243
SP- West Wall (North)	10/30/2006	X		-	<10.0	<10.0	<10.0	<10.0			-		8.07
51 West Wall (North)	10/30/2000	71		_	10.0	10.0	10.0	10.0			-	-	0.07
SP- West Wall (South)	10/30/2006	X		_	<10.0	<10.0	<10.0	<10.0	<u> </u>	_	-	· <u>-</u>	143
					1010	20.0	10.0	10.0					1
SP- West Wall (Middle)	10/30/2006	X		-	<10.0	<10.0	<10.0	<10.0	<0.0250	< 0.0250	< 0.0250	< 0.0250	78.8
													
SP- East Wall (North)	10/30/2006	X		-	<10.0	<10.0	<10.0	<10.0	-	-	_	-	287
SP- East Wall (South)	10/30/2006	X		-	<10.0	<10.0	<10.0	<10.0	-	-	-	_	< 5.00
SP- East Wall (Middle)	10/30/2006	X		-	<10.0	<10.0	<10.0	<10.0	< 0.0250	< 0.0250	< 0.0250	< 0.0250	22.6
		•											
SP- North Wall	10/30/2006	X		-	<10.0	<10.0	<10.0	<10.0	< 0.0250	< 0.0250	< 0.0250	< 0.0250	5.4
	10/20/2005							100	0.00.00	0.00.5			
SP- South Wall	10/30/2006	X			<10.0	<10.0	<10.0	<10.0	< 0.0250	< 0.0250	< 0.0250	< 0.0250	< 5.00

^(-) Not Analyzed Depth - BEB (below excavation bottom)

Table 3 COG Operating

JalMat Well #7 - Flowline Leak

Confirmation Sampling

Lea County, New Mexico

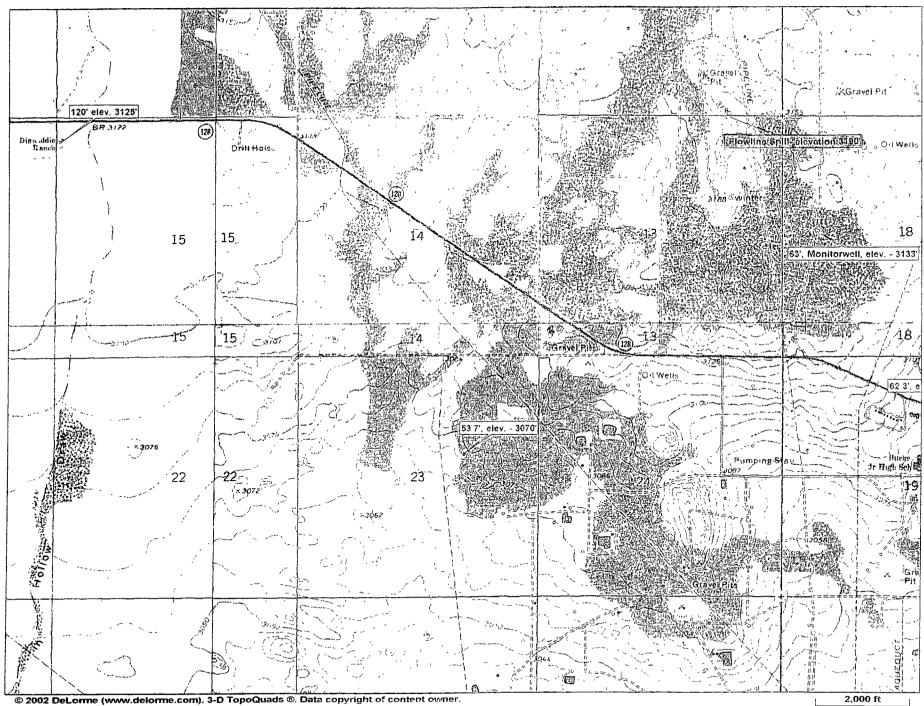
Sample	Date	Soil	Status	Sample		TPH (r	ng/kg)		Benzene	Toluene	Ethlybenzene	Xylene	Chloride
IĎ	Sampled	Insitu	Removed	Depth (BEB)	C6-C12	C12-C28		Total	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
SP #6	10/30/2006	X		0-1.0'	<10.0	<10.0	<10.0	<10.0	<u>.</u>	-	<u>.</u>		760
SP #6	8/14/2007	Х		2'-2.5'	-	-	-	-		-	-	-	53.2
SP #7	10/30/2006	X		0-1.0'	<10.0	<10.0	<10.0	<10.0	_	-		-	609
SP #7	8/14/2007	X		2'-2.5'	-	-	-	-		-		-	85.1
SP #8	10/30/2006	X		0-1.0'	<10.0	28.4	<10.0	28.4	<0.0250	<0.0250	<0.0250	<0.0250	161
SP #9	10/30/2006	X		0-1.0'	<10.0	85.7	<10.0	85.7	<0.0250	<0.0250	<0.0250	< 0.0250	214
SP #10	10/30/2006	Х		0-1.0'	<10.0	<10.0	<10.0	<10.0	-	-	-	<u> </u>	455
SP #10	8/14/2007	X		2'-2.5'		<u>-</u>			<u>-</u>		-		85.1
SP #11	10/30/2006	X		0-1.0'	<10.0	37.2	<10.0	37.2	< 0.0250	<0.0250	<0.0250	<0.0250	10.7
SP #12	10/30/2006	X		0-1.0'	<10.0	<10.0	<10.0	<10.0	-	-	<u>-</u>		724
SP #12	10/30/2006	X		1-1.5'	-	-	-	-		_	-		664
SP #12	2/28/2007	X		2'-2.5'	-	-	-	-		_	-	-	228
SP #13	10/30/2006	X		0-1.0'	<10.0	<10.0	<10.0	<10.0	-	-	-	-	9.8
SS #4 (AH-4)	10/26/2006	X		0-1.0'	35.5	270	25.9	331	_	-	-		-
SS #5 (AH-5)	10/26/2006		X	0-1.0'	268	2920	142	3,330	_	-	<u>-</u>	-	-
SS #5 (AH-5)	2/28/2007	X		0-1.0'	24.8	632	75.5	733	_	-	-	-	-
SS #7 (AH-7)	10/26/2006		X	0-1.0'	15.8	928	74.5	1,020	-	•	-	-	-
SS #7 (AH-7)	2/28/2007	X		0-1.0'	7.29	313	49.5	369.79	-	-	-	_	-

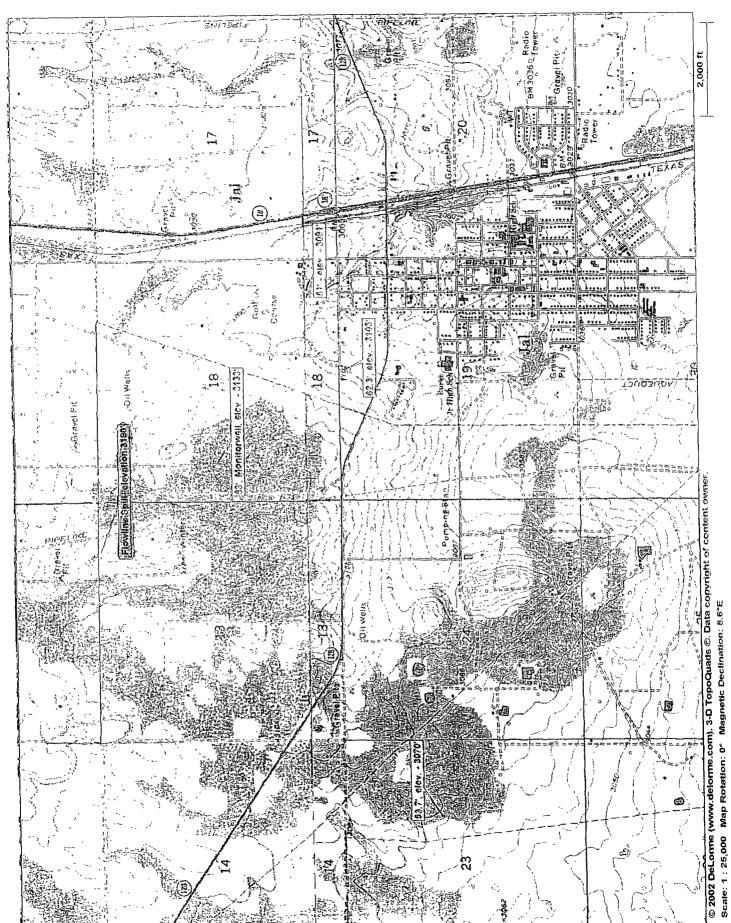
APPENDIX A

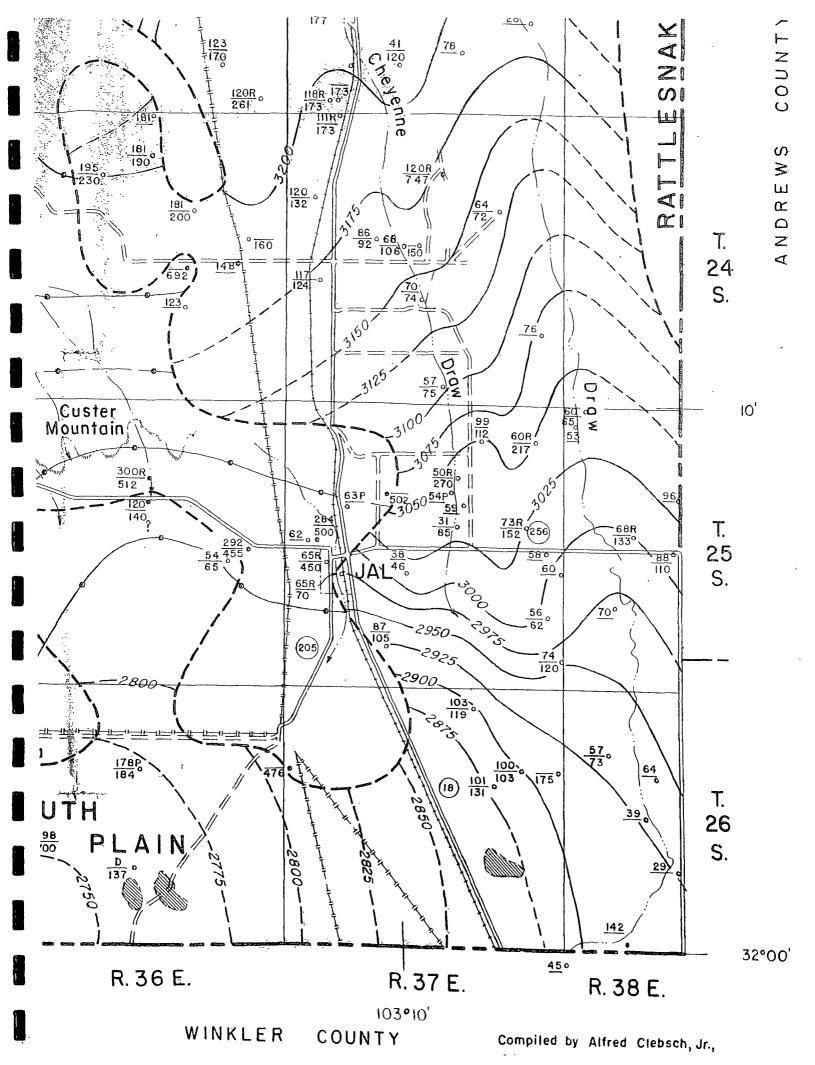
Water Well Data Average Depth to Groundwater (ft) COG Operating - Jalmat Yates Unit # 7

	24 9	South_	39	i East			24 9	South	3	6 East				24 Sc	outh	1	37	East	
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6	5 165	4	3 108	2	1	6 29	5	a	{3	2	1	6		5	4		3	2	1 60
7	8	9	10	111	12	7	8	9	10	11	12	7		8	9		10 50	11	12
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30	29	28	27	26	25	130	29	28	27	26	25	30	- 1	29 219	28		27	26 75	25 55
31	32	33	34	35	36	31	32	33	34	35	36	31		32	33		34	35 18	
*******	26	South		5 Easi)	26	South		36 East-		-		26 S	out!		27	East	J
6	5	14	3	2	1	6	5	4	3	2	1	6		5	4	-	3	2	1
7	В	9	10	11	12	7	В	9 173	10	11	12	7	196	8	9	85	10	11	12
18	17	16	15	14	13	18	17	16	15	14	13	18		17	16		15	14 9	5 13
19	20	21	22	23	24	19	20	21	22	23	24	19		20	21		22	23	24
30	29	28	27	26	25	30	29	28	27	26	25	185 30		29 8	28		27	26	25
31	32	33	34	35	36	31	32	33	34	35	36	31		32	33		140	35	36

- 88 New Mexico State Engineers Well Reports
- 105 USGS Well Reports
- 90 Geology and Groundwater Conditions in Southern Lea, County, NM (Report 6) Geology and Groundwater Resources of Eddy County, NM (Report 3)







Dete

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3-29-53

5-62 53

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table 8.

Jal Plant 4, well 6.

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Charles Whitten

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Location

Mo.

24.34 35 822

24 95.30.341

24 36.3.444

24 36.15.222

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9 133

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26 37.5 601

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3,395

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3,345

3,320

5,275

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5,260

3,205

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3,200

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3,290

3,200

3 8 8 6

3,260

\$.395

3.400

5,305

Remarks

WBZ sand, 158-158 feet. EV 10 gpm

A H. Meyers "A" well I. Intake set

Measurement made inside pipe col-

EY 42 gpm Chemical analysis in

Camp well 1.

at about 475 feet. Maximum yield

											,	
		Er	€66	3,355	£6¢.9	7-28-56		[0	Lw	s		9
25.56.65.262 25.55.60.228	Georgie Bryann	To	BSM	5,080	76.9	€- 2-55		9	Lw	S		GROUND WATER
21.122	Occusta milance	Te		3,250	£73.5	£ 2.53		81/2	N	N	_	ŏ
5.86.E0.SES	W. D. Dinwiddie		502	5,050	\$00	_	_	_	Ĺw	ŝ	<u></u>	Z
0.50.20.525	do.	TE(?)	E CO	S.C25	120.2	555	1951	-	N	Ň		D
√ 25.25€	_	Qal	6590	9,070	55.7	8-56-55		61/2	Lw	S	_	Ş
20.002	Humble Oil Co.	Ec	€55	S.005	292.€	€-85-55	_	_	N	N	_	À
25.37.0.540	Peare Oll Co.	TGO.	267	S.6.08	•60	_		20	Te	in,D	_	I
2.352	Richmand Drill- ing Co.	Te	112.13	3,10	8.80	8-29-55	-	7	Lw	D		K
9.83 9	Stevolind Oil Co.	Te	502	8,140	-	_	1988	-	Lw	D	WBZ 470-502 (cet.	
10.412	EPNG	T -a	270	9.620	50	12-20-69	1949	12	Te	In,D	Jal Plant 3, well 2.	
10.635	M. B. Owens	1E-o	_	\$.10 0	56. 5	2-26-53	_	71/2	Lw	S	MWP	
ES.512a	City of fel	T-o	132	5.080	79	656	195€	12	Te	P	New city well. EY 750 gpm. Chemical analysis in table 8.	12.4
25. 5 7. 05.220	I. M. Owene	Τα		2.000	50.2	2-26-59	_	_	Ti	In	EY 30 gpm. PR.	
15.225	Seen Oil Co.	To	_	5.090	_	-	-	-	Lw	Ď	Chemical analysis in table 8.	* * * * * * * * * * * * * * * * * * * *
85.CE1		Qual	T58A	3.070	Se .0	2-26-55	_	61/2	N	N		Č
17.116	_	Qal		5.445	62. 8	3- 5-55	_		Lw	S	MWP	7
£9.211		Tão		S.088	62:3	5-50-55	_	6	[e	D		+
19.221	City of fel	Έ¢	5 60	5,210	204.0	EQ -11 -5¢	1948	10	N	N	Chemical analysis in table 8.	
19.210	do.	Ts	4 50	3,0€0	65	€9€2		_	_	-	Old public-supply well. WBZ 70-450 feet. EY (1942) 50 gpm. Chemical analysis in table 8.	
20.500	40.	Pr	70	9,035	6 5	1-19-C2	****	6×6 ft.			Dug. WBZ "clayey sand" 65-70 feet. EY 50 gpm. Chemical analysis in table 8.	
25.97. 20.41 9	epng	Te	CL9	_				1044	ſe	d,n1	Jal General Camp well I.	
21.411	G. B. Haddeld	Te	46M	2.050	\$8.2	2-12-59		6	Lw	S	EY I gpm.	
24.260	-	To	_	5:071	\$0.¢	2-12-53		6	N	N	Ph	
21.122	-	To	_	3,050	602	2-12-53	~	B	N	N	_	
25.CEC	_	To	6274	5,055	\$6.€	2.12.55		6	N	N	-	
28.11£	Olsen Oil Co.	o⊕v1	105	3,000	67.€	2.16.59	-	12	N	N		
36.244	O450M	To	120	3:035	76.2	2-13-53		10	N	N		
25.38.6.122	Fowler Hair	To	6594	3,100	60.5	3- 3-53		61/2	Lw	ŝ		
45.38.0.144 6. 134	E DWECK EERIE	Tο		3,095	53.1	2-25-53		3	N	N	Cased shothole.	
	_	To		3,230	95.7	2 25 53	_	61/2	Ĺw	D.S	EY 30 gpm.	
:9.\$45		IL O		ט נואן נוי		4.40.33	_	074	- Ew	د, ب	Er og Rhur.	- 6

					Water	r level					
Location No.	Owner	Aquifer	Depth of well (feet)	Altitude of well (feet)	Depth be- low land surface (feet)	Date meas- ured	Year com- pleted	Surface diam- eter of wells	Method of lift	Use of water	Remarks
25.38 19.342	Pure Oil Co.	To(?)	133	3,061	68	1952	-			In	Dollarhide Gasoline Plant well 2
21.121	Tom Linebury	To	110	3,103	87.7	2-12-53		7	Lw	S	
29.131		Qal		3,040	69.9	2-15-53	_	6	Lw	N	
26.32.21.322	Battle Ax Ranch		253	3.140	180	7-23-54			Lı	D.S	
26.33.3.444	W. D. Dinwiddie		180	3,315	102 8	7-23-54	_	6	N	N	
3.444a	do.	Qal	_	3,315		_	-	6(?)	Lw	s	Chemical analysis in table 8. Located 50 feet west of 26 33 3,444.
9.443		Qal(?)		3,280	106 6	7-26-54			Lw	S	
22 433	Battle Ax Ranch		200(?)	3,270	79.7	7-26-54	-	6	Lw	S	
26.34 6.213		Ťτ	360	3,330	141.9	7-23-54		8	Lw	S	_
26 35.13 222		Qal	~-	2,990	229.1	12-12 58		7	Lw	S	Chemical analysis in table 8
26.36.9.440	Frank Antheys	Õal	184M	2,940	1778	12-12-58		7	Lw	D.S	MWP
18.311	City of Jal	Qal	559	2,981	220 8	3-17-60	1960	24	Te(?)	P	Vield 453 gpm. Gravel packed. WB2 275-300, 400-465, 500-530 feet
19.233	do	Qal	700	2,950	198.0		1960	24	Te(?)	P	Yield 408 gpm. Gravel packed. WB2 270-280, 400-480, 550-600, 670-680 feet
21.443	_	_	137(?)	2,900	Dry	12-11-58		11	N	N	_
26 37.2.133	Clyde Cooper	Qal(?)	119	3,000	103.4	2-16-53	1937	8	Lw	S	
7.331	EPNG	Ťr `	476	2,960	_	_	1937	B 5/8	Te	G_{\bullet} nI	[al Plant I, well I.
12,314		Qal		3,010	102 3	2-16-53		91/2	N	N	
12.331	_	Qal	$103 \pm N$	1 3,000	99 9	2-17-53		3	N	N	Cased shothole
12,441	Humble Oil Co	Qal	175	_			1944	_	_	-	WBZ 125-150 feet, EY 68 gpm,
14 122	_	Qat	131M	2,985	0 001	2-17-53		3	N	N	Cased shothole.
26.38.7.244	Tom Linebury	Qat	73	3,000	57.1	2-24-53		81/2	N	N	
8.444	do.	Qal	66	3,000	64.5	2-24-53		61/2	Lw	S	
17,414	do.	Qal		2,975	39.4	2-24-53		51/2	Lw	S	_
21.344	do	Qal		2,955	29.0	2-13-53		3	N	N	Cased shothole
32 141	do	Tr(?)		2,950	1424	2-13-53		26	N	N	

TABLE 7. RECORDS OF SELECTED WELLS IN TEXAS ADJACENT TO SOUTHERN LEA COUNTY, N. MEX. Explanations of symbols are included in the headnotes of Table 6.

					Water	r level					
Location No.	Owner	Aquifer	Depth of well (feet)	Altitude of well (feet)	Depth be- low land surface (feet)	Date meas- ured	Year com- pleted	Surface diam- eter of wells	Method of lift		Remarks
				Gai	nes County	Гех.					
A-12.25.841		To	50(?)	3,545	40.8	12- 9-53	-	6	Lw	N	_
A-28.3.413	Greenwood		~``	3,485	35.1	12- 9-53	-	-	Lw	S	-
				Andı	ews County,	Tex.				`	
A-29.17.320	H. O. Sims	To(?)	82	3,510	79.4	7-28-40			Lw	S	
A-39.4.420	do.	To	81	3,478	72.4	10. 9-55	_	61/2	Lw	S	
A-39.14.111	Humble Oil Co.		215	3,410	Dry	-	_	_		-	_
A-40.16.330	M. L. Goins	To	80	3,305	74.1	10-15-53	-		Lw	D,S	-
				Win	kler County.	Tex.					
C-22.6	Tom Linebury	Qal	_	2,940	45.0	2-13-53	-	6	N	N	~

Township: 25S Range: 35E Sections:

NAD27 X:

Y:

Zone:

Search Radius:

County:

Basin:

Number:

Suffix:

Owner Name: (First)

(Last)

ONon-Domestic ODomestic

All

POD Surface Data Report Avg Depth to Water Report Water Column Report

Clear Form

AVERAGE DEPTH OF WATER REPORT 03/06/2006

							(Depth	Water in	Feet)
Bsn	Tws	Rag Sec	zone	X	Y	Wells	Min	Max	Avg
С	25S	35E 05				1	165	165	165
С	25S	35E 18				1	230	230	230
C	25S	35E 21				2	205	230	218

Range: 36E Township: 25S Sections: NAD27 X: Y: Zone: Search Radius: Suffix: County: Basin: Number: Owner Name: (First) (Last) O Non-Domestic O Domestic All ROD / Surface Data Report Avg Depth to Water Report Water Column Report Clear-Form... iWATERS Menu

AVERAGE DEPTH OF WATER REPORT 03/08/2006

(Depth Water in Feet)
Bsn Tws Rng Sec Zone X Y Wells Min Max Avg

No Records found, try again

Range: 37E Township: 25S Sections:

NAD27 X:

Y:

Zone:

Search Radius:

County:

Basin:

Number:

Suffix:

Owner Name: (First)

(Last)

Non-Domestic Domestic

All

POD / Surface Data Report Avg Depth to Water Report

Glear Form : WATERS Menu Help

AVERAGE DEPTH OF WATER REPORT 03/08/2006

Water in	Feet)
Max	Avg
63	44
60	34
250	219
185	185
	Max 63 60 250

Township: 25S Range: 37E Sections: NAD27 X: Y: Zone: Search Radius: Basin: Number: Suffix: County: Owner Name: (First) (Last). O Non-Domestic O Domestic All POD / Surface Data Report Avg Depth to Water Report «Water Column Report--iWATERS Menu-Help POD / SURFACE DATA REPORT 03/08/2006 (dns (acre ft per annum) (qua Diversion Owner POD Number DB File Nbr Use 31.2 CHAPARRAL SERVICES, INC. COM 00120 CP 00120 15.6 00121 COM CHAPARRAL SERVICES, INC. 00121 CP CPCHAPARRAL SERVICES, INC. 00124 COM CP 00124 CP J. M. OWEN 00211 DOM CP CP00211 DCL 0 J. M. OWEN DOM CP 00216 CP 00216 DCL 0 J. M. OWEN 00217 DOM CP 00217 DCL CP DOM 0 J. M. OWEN CP 00219 CP 00219 DCL 0 J. J. SMITH 00299 DOM CP 00299 DCL CP STK J. J. SMITH CP00300 CP 00300 DCL DOM PAUL S. BALLINGER 00387 CP00387 1 CP00387 REPAR 1 CP 00387 REPAR 2 0 JAKE MC KOWEN . CP 00388 DOM CP00388 EXP .70 PAUL PRATHER P AND S BRINE SAL CP 00425 COM CP 00425 DOM ANNICE KATHLEEN BUTTER CP 00428 00428 CPDOM 3 HOMER E. MOLDER 00429 CP 00429 00444 DOM 3 D. C. BUFFINGTON CP CP 00444 CP 00460 DOM 3 E. W. RUSCHE CP 00460 0 00461 DOM GOERGE L. BUCKLES COMPANY СÞ 00461 DCL CP 3 DOM L. L. REED CP 00487 CP 00487 3 00506 DOM CHARLES D. TAFF 00506 CP СP 00507 SAN 3 UNION TEX PETE CO. CP CP 00507 00515 DOM 3 JOHN SHROYER CPCP 00515 0 V.B. BROCK CP 00518 DOM CP 00518 EXP DOM 0 A.D. KEMP CP 00526 CP 00526 EXP DOM 3 A.D. KEMP CP 00533 CP00533 3 DOM 00534 DAN COX CP CP 00534 DOM CP 00541 BILLY W. MOSLEY CP 00541 3 DOM LUCILLE BOCK WEBB 00557 CPCP00557

3

SAM R. BEAIRD

RAYMOND F', GRAY

DOM

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Township: 24S Range: 35E Sections:

NAD27 X:

 \mathbf{Y} :

Zone:

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Search Radius:

County:

Basin:

Number:

Suffix:

Owner Name: (First)

(Last)

© Non-Domestic O Domestic

All

POD Surface Data Report Avg Depth to Water Report

Water Column Report

Clear Form WATERS Menu

AVERAGE DEPTH OF WATER REPORT 03/08/2006

Bsn Tws Rag Sec Zone СP 24S 35E 10

Y Wells

1

(Depth Water in Feet) Min 300

300

300

Township: 24S Range: 36E Sections: NAD27 X: Y: Zone: 巍煌 Search Radius: Basin: County: Number: Suffix: Owner Name: (First) (Last) O Non-Domestic O Domestic All POD / Surface Data Report Avg Depth to Water Report Water Column Report iWATERS Menu Clear-Form

AVERAGE DEPTH OF WATER REPORT 03/08/2006

							(Depth	Water in	Feet)
Bsn	Tws	Rng Sec	Zone	X	Y	Wells	Min	Max	Avg
CP	245	36E 04				3	155	178	165
CP	24S	36E 15				2	173	450	312
CP	24S	36E 20				1	97	97	97
CP	24S	36E 23				1	160	160	160
CP	24S	36E 33				1	53	53	53

Township: 24S Range: 37E Sections:

NAD27 X:

Y:

Zone:

Search Radius:

County:

Basin:

Number:

Suffix:

Owner Name: (First)

(Last)

Non-Domestic Domestic

(a) All

POD / Surface Data Report Avg Depth to Water Report Water Column Report

Clear Form WATERS Menu Help

AVERAGE DEPTH OF WATER REPORT 03/08/2006

								(Depth	Water in	Feet)
Bsn	Tws	Rag !	Sec	Zone	X	Y	Wells	Min	Max	Avg
CP	245	37E (05				1	106	106	106
CP	24S	37E (08			_	1	90	90	90
CP	248	37E 2	23				1	94	94	94
СP	24S	37E 2	24				1	100	100	100
CP	24S	37E :	25				1	90	90	90
CP	24S	37E :	28				1	70	70	70

	Towns	hip: 268	Range:	35E	Sections:			
1	NAD27	X:	Y:		Zone:		Search Radius:	
County:			Basin:		Figure Program Program	Numb	per: Su	ffix:
Owner N	Jame: (Fi	irst)		(Las	et) ② All	1	Non-Domesti	c O Domestic
	ROD / Surface Data Report Water Column Report							
Clear Form iWATERS Menu Help								
A						Militar - 1970 to spanju		
	AVERAC	GE DEPT	H OF WATE	R REPO	RT 03/08/20		h Water in Foo	.÷\

Bsn Tws Rng Sec Zone X Y Wells Min Max Avg
No Records found, try again

Township: 26S Range: 36E Sections: \mathbf{Y} : Zone: Search Radius: NAD27 X: Number: County: Basin: Suffix: Owner Name: (First) (Last) ONon-Domestic ODomestic All POD Surface Data Report Avg. Depth to Water Report Water Column Report Glear Form ... iWATERS Menu Help

AVERAGE DEPTH OF WATER REPORT 03/06/2006

(Depth Water in Feet)

Bsn Tws Rng Sec Zone X Y Wells Min

Min Max Avo

No Records found, try again

Town	ship: 26	S Range: 3	37E Sections:				
NAD27	X:	Y:	Zone:		Search Radius:		
County:		Basin:		Numb	oer: Suff	ĩx:	
Owner Name: (I	First)		(Last) (2) All		O Non-Domestic	① Domestic	
POD / Surface Data Report Water Column Report							
Clear Form WATERS Menu Help							
AVERAGE DEPTH OF WATER REPORT 03/08/2006 (Depth Water in Feet) Bsn Tws Rng Sec Zone X Y Wells Min Max Avg							
No Records for	ind, tr	y again					

CP	00460	DOM	3	E. W. RUSCHE	CP	00460	Shallow	25S	37E 19	2 1 3
CP	00461	DOM	0	GOERGE L. BUCKLES COMPANY	CP	00461 DCL		25S	37E 10	4 3 2
CP	00487	DOM	3	L. L. REED	CP	00487	Shallow	25S	37E 29	1 2
CP	00506	DOM	3	CHARLES D. TAFF	CP	00506	-	25S	37E 29	2
CP	00507	SAN	3	UNION TEX PETE CO.	CP	00507	•	25S	37E 05	4 2
CP	00515	DOM	3	JOHN SHROYER	CÞ	00515	Shallow	25S	37E 19	2 4 3
GP	00518	- DOM	0	V.B. BROCK	GP	00518 BXP	•	25S	37E 19	1 2 4
CP	00526	_ DOM	0	A.D. KEMP	CP	00526 XXP	•	25S	37E 19	1 4 4
CP	00533	DOM	3	A.D. KÉMP	CP	00\$33	Shallow	25S	37E 19	1 4 4
CP	00534	DOM	3	DAN COX	CP	00534	Shallow	25S	37E 19	2 4 1
CP	00541	DOM	. 3	BILLY W. MOSLEY	CP	00541	Shallow	25S	37E 19	2 2 4
CP.	00557	DOM	3	LUCILLE BOCK WEBB	<u>CP</u>	00557	Shallow	25S	37E 20	3 3 3
CP	00\$65	DOM	3	SAM R. BEAIRD	CP	00565		25S	37E 19	1 2 3
CP	00607	DÓM	3	RAYMOND F. GRAY	CP	00607	Shallow	25S	37E 19	1 2 2
CP	00608	DOM	3	FLOYD MCCUNE MATHIS	CP	00608		25S	.37E 19	1 1 1
CP	00619	DOM	3	JOHN T. SWINFORD '	CP	00619	Shallow	25S	37E 20	3 1
CP	00620	DOM	3	D. E. BAILEY	CP	00620	Shallow	25S	37E 20	1 3 3
CP	00638	DOM	3	DONALD R. TRICE	<u>CP</u>	00638	Shallow	25S	37E 29	1 1
CP	00661	DOM	3	D. E. BAILEY	CP	00661	Shallow	25S	37E 20	1 3 3
CP	00710	DOM	3	S. A. SEARCY	CP	00710	Shallow	25S	37E 19	2 2 3
CP	00777	DOM	3	GUAN D. MILLER	CP	00777	Shallow	25S	37E 20	3 2 4
CP	00782	INJ	0	ARCO OIL AND GAS COMPANY	CP	00782	Shallow	25S	37E 24	1 1 2
CP	00783	INJ	0	ARCO OIL AND GAS COMPANY	CP	00783	Shallow	25S	37É 23	1 2 1
CP	00784	INJ	0	ARCO GAS AND OIL COMPANY	CP	00784	Shallow	255	37E 23	1 4 3
CP	00844	STK	0	TRUSTEES/JAL PUBLIC LIBRARY	CP	00844		25S	37E 17	3 3
CP	00888	DOM	3	CLAY & GERALDINE (JERI) OSBORN		00888		25S	37E 18 37E 07	2 2 4
CP	00889	DOM	3	CLAY & GERALDINE (JERI) OSBORN				25S		3 3 2
CP	00891	DOM	3 3	CLAY & GERALDINE (JERI) OSBORN CLAY & GERALDINE (JERI) OSBORN		00891 00892		25S 25S	37E 18 37E 18	2 2 3 2 2 3
CP	00892	DOM DOM	3	CLAY & GERALDINE (JERI) OSBORN		00893		25S	37E 18	2 2 3
CP_	00893	DOM	3	CLAY & GERALDINE (JERI) OSBORN		00894		25S	37E 18	2 2 4
CP CP	00990	POL	0	SHELL PIPELINE COMPANY LP	CP	00900	Shallow	25S	37E 32	4 3 4
CP	00900	POL	0	SHELL PIPELINE COMPANY LP	CP	00901	Shallow	25S	37E 32	4 3 4
CP	00901	POL	0	SHELL PIPELINE COMPANY LP	CP	00902	Shallow	25S	37E 32	4 3 4
CP	00903	POL	0	SHELL PIPELINE COMPANY LP	CP	00903	Shallow	25S	37E 32	4 3 4
CP	00904	POL	0	SHELL PIPELINE COMPANY LP	CP	00904	Shallow	25S	37E 32	4 3 4
CP	00905	POL	0	SHELL PIPELINE COMPANY LP	CP	00905	Shallow	25S	37E 32	4 3 4
CP	00906	POL	0	;	CP	00906	Shallow	25S	37E 32	4 3 4
CP	00909	STK	3	GEORGE WILLIS	CP	00909	Shallow	25S	37E 35	4 4 4

Township: 25S Range: 37E Sections:

NAD27 X:

Y:

Zone:

Search Radius:

County:

Basin:

Will Number:

Suffix:

Owner Name: (First)

(Last)

ONon-Domestic ODomestic OAll

(quarters are 1=NW 2=NE 3=SW 4=SE)

POD / Surface Data Report

Avg-Depth to Water Report

Water Column Report

Clear Form

iWATERS.Menu

Help

POD / SURFACE DATA REPORT 03/08/2006

(acre ft per annum)						(qı	arters are	bigg	est to s	mallest	
DB	File Mbr	Use	Diversion	Owner	POD	Number	Source	Tws	Rng Se	eqqq	
CP	00120	_ COM	31.2	CHAPARRAL SERVICES, INC.	CP	00120	Shallow	25s	37E 20	2 3 1	
CP	00121	_ COM	15.6	CHAPARRAL SERVICES, INC.	CP	00121	Shallow	25S	37E 20	2 4 3	
CP	00124	COM	31.2	CHAPARRAL SERVICES, INC.	CP	00124	_ •	25S	37E 20	2 4 1	
CP	00211	DOM	0	J. M. OWEN	CP	00211 DCL	_	25 <i>S</i>	37E 21	2 4 3	
CP	00216	DOM	0	J. M. OWEN	CP	00216 DCL	_	25S	37E 22	1 2 2	
CP	00217	·DOM	0	J. M. OWEN	CP	00217 DCL		25S	37E 10	4 3 4	
CP	00219	DOM	0	J. M. OWEN	CP	00219 DCL	_	25S	37E 10	4 3 3	
CP	00299	DOM	0	J. J. SMITH	CP	00299 DCL	_	25S	37E 03	2 4 2	
CP	00300	STK	0	J. J. SMITH	CP	00300 DCL	_	25S	37E 03	421	
CP	00387	DOM	3	PAUL S. BALLINGER	CP	00387 1	Shallow	25S	37E 29	2 3	
					CP	00387 REPAR 1	Shallow	25S	37E 29	2 3	
					CP	00387 REPAR 2	Shallow	25s	37E 29	2 3	
CP	00388	DOM	0	JAKE MC KOWEN	CP	00388 EXP		25S	37E 19	2 2	
CP	00425	COM	70	PAUL PRATHER P AND S BRINE SAL	CP	00425	Shallow	25S	37E 16	4 4 4	
CP	00428	DOM	. 3	ANNICE KATHLEEN BUTTER	CP	00428		25S	37È 20	1	
CP	00429	DOM	3	HOMER E. MOLDER	CP	00429	Shallow	25S	37E 19	2	
CP	00444	DOM	3	D. C. BUFFINGTON	CP	00444	Shallow	25S	37E 19	2 2	

CP	30606	DOM
CP	0.06F.9	DOM
CP	00620	MOG
CP	@@63B	DOM
C₽	@@661L	DOM
C₽	00710	DOM
C₽	00777	DOM
CD	00782	INJ
CP	00763	INJ
\mathbb{CP}	00762	INJ
C.P.	00844	STK
\mathbb{CP}	00868	DOM
C₽	00889	DOM
C₽	0089L	DOM
CP	008.92	DOM
C₽	00393	DOM
CP	00094	DOM
G55	00900	POL
CP	009:01L	POL
$\mathbb{C}\mathcal{P}$	00902	POL_
C₽	00903	POL
CP	00904	POL
C₽	00905	POL
C₽	00906	POL
CP	00909	STK

3	FLOYD MCCUNE MATHIS	CP	00608
3	JOHN T. SWINFORD	CP	00619
3	D. E. BAILEY	CP	00620
3	DONALD R. TRICE	CP	00638
3	D. E. BAILEY	CP	00661
3	S. A. SEARCY	CP	00710
3	GUAN D. MILLER	CP_	00777
0	ARCO OIL AND GAS COMPANY	CP	00782
0	ARCO OIL AND GAS COMPANY	CP	00783
0	ARCO GAS AND OIL COMPANY	CP	00784
0	TRUSTEES/JAL PUBLIÇ LIBRARY	CP	00844
3	CLAY & GERALDINE (JERI) OSBORN	CP	00888
3	CLAY & GERALDINE (JERI) OSBORN	CP	00889
3	CLAY & GERALDINE (JERI) OSBORN	CP	00891
3	CLAY & GERALDINE (JERI) OSBORN	CP_	00892
3	CLAY & GERALDINE (JERI) OSBORN		00893
3	CLAY & GERALDINE (JERI) OSBORN	Cb_	00894
0	SHELL PIPELINE COMPANY LP	CP	00900
0	SHELL PIPELINE COMPANY LP	CP	00901
0	SHELL PIPELINE COMPANY LP	CP	00902
0	SHELL PIPELINE COMPANY LP	CP_	00903
0	SHELL PIPELINE COMPANY LP	CP	00904
0	SHELL PIPELINE COMPANY LP	CP	00905
0	SHELL PIPELINE COMPANY LP	CP	00906
3	GEORGE WILLIS	CP	00909



Data Category:
Ground Water

Geographic Area: New Mexico

go

Ground-water levels for New Mexico

Search Results -- 1 sites found

Search Criteria

site_no list = • 320149103134201

Save file of selected sites to local disk for future upload

USGS 320149103134201 26S.36E.23.222322

Available data for this site

Ground-water: Levels



Lea County, New Mexico Hydrologic Unit Code 13070007

Latitude 32°01'49", Longitude 103°13'42" NAD27

Land-surface elevation 2,925.80 feet above sea level NGVD29

The depth of the well is 200 feet below land surface.

This well is completed in the ALLUVIUM, BOLSON DEPOSITS AND OTHER SURFACE DEPOSITS (110AVMB) local aquifer.

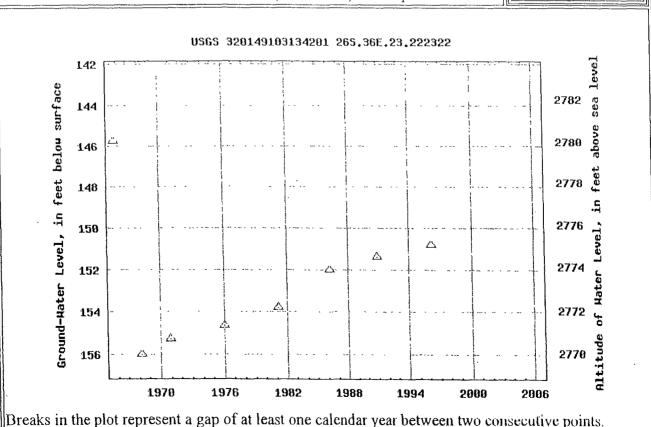
Output formats

Table of data

Tab-separated data

Graph of data

Reselect period





Data Category: Ground Water Geographic Area: New Mexico



Ground-water levels for New Mexico

Search Results - 1 sites found

Search Criteria

site no list = 0 320251103154201

Save file of selected sites to local disk for future upload

USGS 320251103154201 26S.36E.09.44421B

Available data for this site

Ground-water: Levels

GO

Lea County, New Mexico

Hydrologic Unit Code 13070007

Latitude 32°02'51", Longitude 103°15'42" NAD27

Land-surface elevation 2,934.70 feet above sea level NGVD29

The depth of the well is 200 feet below land surface.

This well is completed in the ALLUVIUM, BOLSON DEPOSITS AND OTHER SURFACE DEPOSITS (110AVMB) local aquifer.

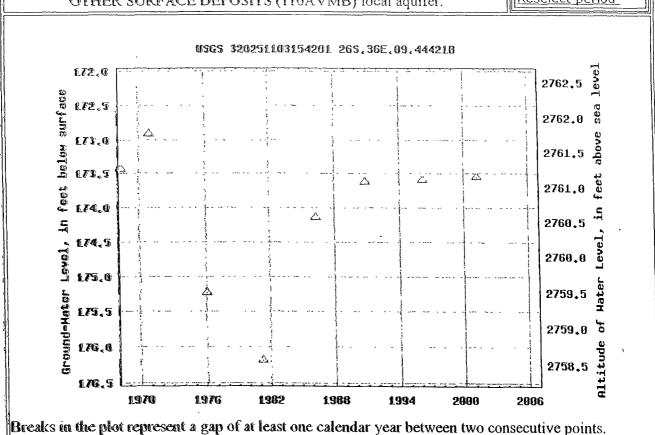
Output formats

Table of data

Tab-separated data

Graph of data

Reselect period





Data Category:Ground Water

Geographic Area: New Mexico

go

Ground-water levels for New Mexico

Search Results -- 1 sites found

Search Criteria

site_no list = • 320042103103901

Save file of selected sites to local disk for future upload

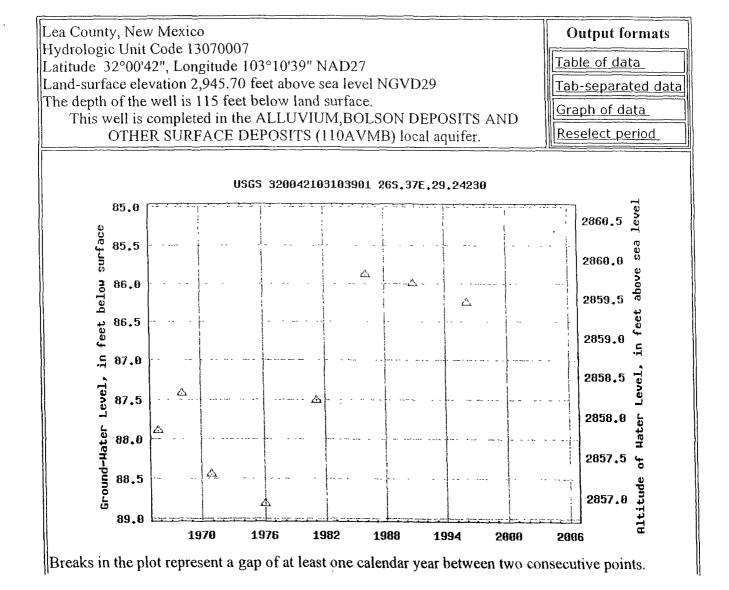
USGS 320042103103901 26S.37E.29.24230

Available data for this site

Ground-water Levels



GO





Data Calegory: Ground Water Geographic Area:

New Mexico



Ground-water levels for New Mexico

Search Results - I sites found

Search Criteria

site_no list = 6 320046103085101

Save file of selected sites to local disk for future upload

USGS 320046103085101 26S.37E.27.23212

Available data for this site

Ground-water Levels

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GO

Lea County, New Mexico **Output formats** Hydrologic Unit Code 13070007 Table of data Latitude 32°00'46", Longitude 103°08'51" NAD27 Land-surface elevation 2,982.20 feet above sea level NGVD29 Tab-separated data The depth of the well is 525 feet below land surface. Graph of data This well is completed in the SANTA ROSA SANDSTONE (231SNRS) local Reselect period aquifer. USGS 320046103065101 265,37E.27,23212 143 Ground-Hater Level, in feet below surface 2840 190 2830 160 2820 170 2810 .5 100 2800 190 2790 Δ 200 2780 210 2778 1979 1982 1985 1988 1991 1994 1997 2000 2003 Breaks in the plot represent a gap of at least one calendar year between two consecutive points.



Data Category: Ground Water Geographic Area: New Mexico

go

Ground-water levels for New Mexico

Search Results -- 1 sites found

Search Criteria

• 320104103120301 site no list =

Save file of selected sites to local disk for future upload

USGS 320104103120301 26S.37E.19.433143

Available data for this site

EPA Surf your Watershed

GO

Lea County, New Mexico

Hydrologic Unit Code 13070007

Latitude 32°01'04", Longitude 103°12'03" NAD27

Land-surface elevation 2,941.40 feet above sea level NGVD29

The depth of the well is 500 feet below land surface.

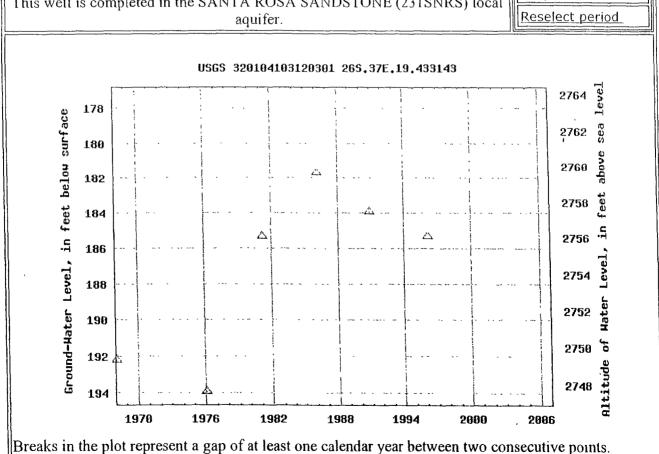
This well is completed in the SANTA ROSA SANDSTONE (231SNRS) local aquifer.

Output formats

Table of data

Tab-separated data

Graph of data



Water Resources

Data Category:
Ground Water

Geographic Area: New Mexico

go

Ground-water levels for New Mexico

Search Results - 1 sites found

Search Criteria

site_na list = • 320303103100901

Save file of selected sites to local disk for future upload

USGS 320303103100901 26S.37E.09.32411A

Available data for this site

Ground-water: Levels

.GO

Lea County, New Mexico

Hydrologic Unit Code 13070007

Latitude 32°03'03", Longitude 103°10'09" NAD27

Land-surface elevation 2,969.60 feet above sea level NGVD29

The depth of the well is 140 feet below land surface.

This well is completed in the ALLUVIUM, BOLSON DEPOSITS AND OTHER SURFACE DEPOSITS (110AVMB) local aquifer.

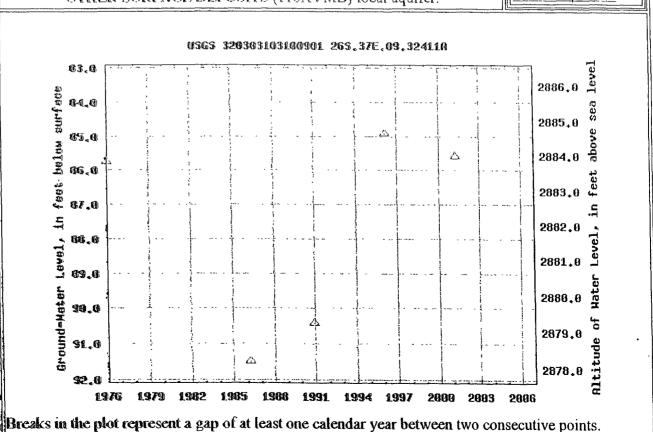
Output formats

Table of data

<u>Tab-separated data</u>

Graph of data

Reselect period



Data Category: Ground Water Geographic Area: New Mexico

go

Ground-water levels for New Mexico

Search Results -- 1 sites found

Search Criteria

site_no list = • 320259103122201

Save file of selected sites to local disk for future upload

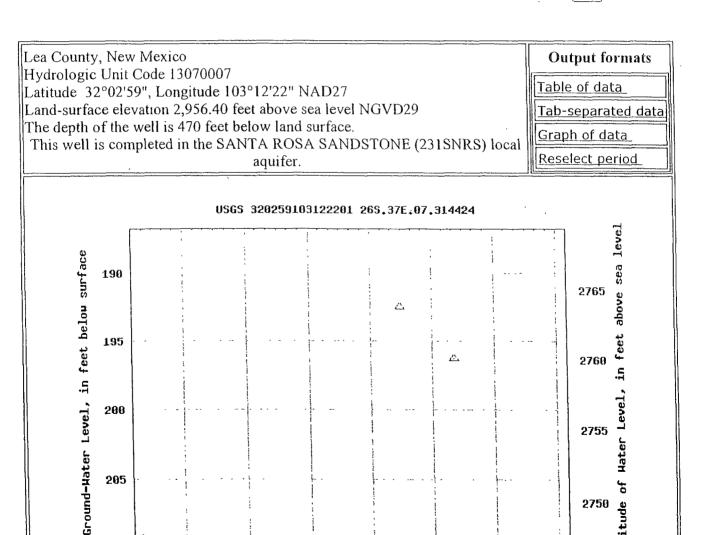
USGS 320259103122201 26S.37E.07.314424

Available data for this site

Ground-water Levels



GO



1982

Breaks in the plot represent a gap of at least one calendar year between two consecutive points.

1988

1994

2000

2006

1976

1970

Water Resources

Data Category: Ground Water Geographic Area: New Mexico

go

Ground-water levels for New Mexico

Search Results - 1 sites found

Search Criteria

site_molist = 6 320251103071401

Save file of selected sites to local disk for future upload

USGS 320251103071401 26S.37E.12.33243

Available data for this site

Ground-water: Levels

GO

Lea County, New Mexico

Havirologic Unit Code 13070007

Latitude 32°02'51", Longitude 103°07'14" NAD27

Land-surface elevation 3,004.20 feet above sea level NGVD29

The depth of the well is 160 feet below land surface.

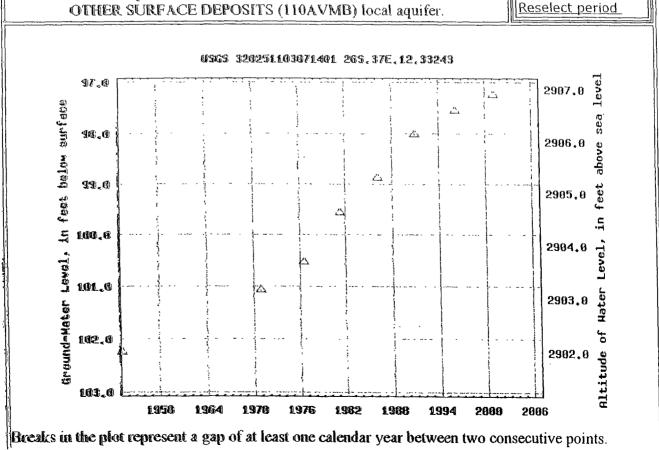
This well is completed in the ALLUVIUM, BOLSON DEPOSITS AND OTHER SURFACE DEPOSITS (110AVMB) local aquifer.

Output formats

Table of data

Tab-separated data

Graph of data



* () () () () () ()

Water Resources

Data Category:Ground Water

Geographic Area: New Mexico



Ground-water levels for New Mexico

Search Results -- 1 sites found

Search Criteria

site_no list = • 320309103080401

Save file of selected sites to local disk for future upload

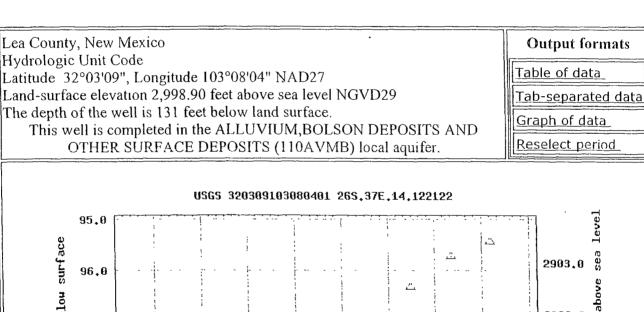
USGS 320309103080401 26S.37E.14.122122

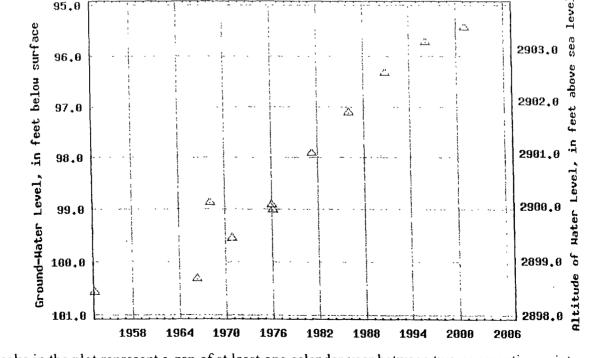
Available data for this site

Ground-water: Levels



GO





Breaks in the plot represent a gap of at least one calendar year between two consecutive points.

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Water Resources

Data Category: Ground Water Geographic Area:
New Mexico

go go

Ground-water levels for New Mexico

Search Results - L sites found

Search Criteria

site no list = • 320918103211701

Save file of selected sites to local disk for future upload

USGS 320918103211701 25S.35E.03.233244

Available data for this site

Ground-water: Levels

GO

Lea County, New Mexico **Output formats** Hydrologic Unit Code 13070007 Table of data Latitude 32°09'18", Longitude 103°21'17" NAD27 Land-surface elevation 3,219.20 feet above sea level NGVD29 Tab-separated data The depth of the well is 122 feet below land surface. Graph of data This well is completed in the ALLUVIUM, BOLSON DEPOSITS AND Reselect period OTHER SURFACE DEPOSITS (110AVMB) local aquifer. USGS 320916103211701 255,35E,03,233244 3120.0 Ground-Mater Level, in feet belom surface LOG. O 3118.0 102.0 3116.0 104.0 3114.0 106.0 3112.0 LOS.A 1970 1976 1982 1988 1994 2000 2006 Breaks in the plot represent a gap of at least one calendar year between two consecutive points.

5-11 (13)

Water Resources

Data Category:
Ground Water

Geographic Area: New Mexico

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Ground-water levels for New Mexico

Search Results -- 1 sites found

Search Criteria

site_no list = 0 320721103221201

Save file of selected sites to local disk for future upload

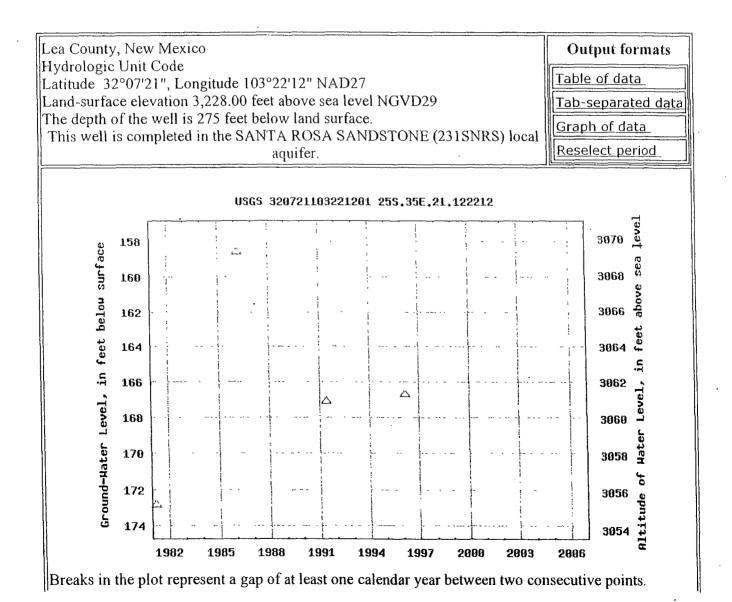
USGS 320721103221201 25S.35E.21.122212

Available data for this site

Ground-water: Levels



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Water Resources

Oata Calegory: Ground Water **Geographic Area:** New Mexico

go

Ground-water levels for New Mexico

Search Results - 1 sites found

Search Criteria

site_na list = • 320916103182501

Save file of selected sites to local disk for future upload

USGS 320916103182501 25S.36E.06.13442

Available data for this site

Ground-water: Levels

GO

Lea County, New Mexico Output formats Hydrologic Unit Code 13070007 Table of data Latitude 32°09'16", Longitude 103°18'25" NAD27 Land-surface elevation 3,261.30 feet above sea level NGVD29 Tab-separated data The depth of the well is 605 feet below land surface. Graph of data Thus well is completed in the SANTA ROSA SANDSTONE (231SNRS) local Reselect period aquiter. USGS 320916103102501 255,36E.06,13442 2970.0 SUPFACE 292.0 2968.0 in feet below 294.Q 2966.0 236.0 Ground-Maker Level, 2964,0 D. DPS 2962.0 ma.o 1970 197G 1982 1986 1994 2000 2006 Breaks in the plot represent a gap of at least one calendar year between two consecutive points.

Water Resources

Data Category:
Ground Water

Geographic Area: New Mexico

go

Ground-water levels for New Mexico

Search Results -- 1 sites found

Search Criteria

site_no list = • 320813103152901

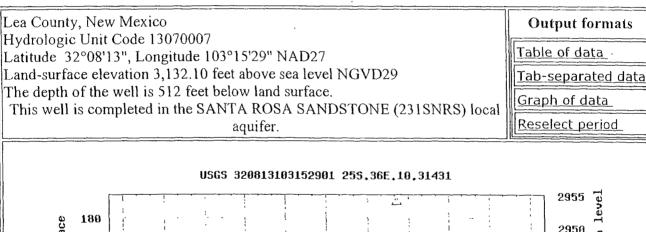
Save file of selected sites to local disk for future upload

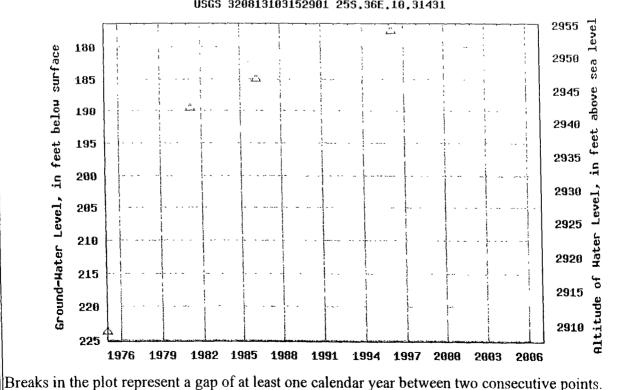
USGS 320813103152901 25S.36E.10.31431

Available data for this site

Ground-water: Levels

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Water Resources

Data Category: Ground Water Geographic Area: New Mexico

go

.Ground-water levels for New Mexico

Search Results - 1 sites found

Search Criteria

site no list = • 320639103071301

Save file of selected sites to local disk for future upload

USGS 320639103071301 25S.37E.24.14333

Available data for this site

Ground-water: Levels

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Lea County, New Mexico Hydrologic Unit Code 13070007

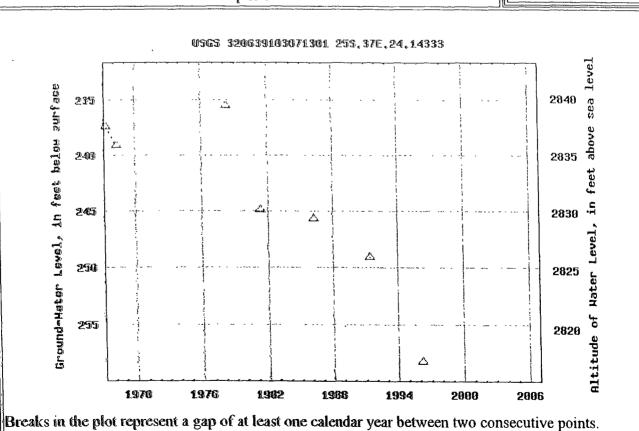
Latitude 32°06'39", Longitude 103°07'13" NAD27

Land-surface elevation 3,075.10 feet above sea level NGVD29

The depth of the well is 901 feet below land surface.

This well is completed in the RUSTLER FORMATION (312RSLR) local aquifer.

Output formats Table of data Tab-separated data Graph of data Reselect period





Data Category: Ground Water Geographic Area: **New Mexico**

go

Ground-water levels for New Mexico

Search Results -- 1 sites found

Search Criteria

site no list = • 320651103110202

Save file of selected sites to local disk for future upload

USGS 320651103110202 25S.37E.20.231342A

Available data for this site

Ground-water: Levels

1 3 3

GO

Lea County, New Mexico **Output formats** Hydrologic Unit Code 13070007 Table of data Latitude 32°06'51", Longitude 103°11'02" NAD27 Land-surface elevation 3,071.70 feet above sea level NGVD29 Tab-separated data The depth of the well is 510 feet below land surface. Graph of data This well is completed in the ALLUVIUM, BOLSON DEPOSITS AND Reselect period OTHER SURFACE DEPOSITS (110AVMB) local aquifer. USGS 320651103110202 255.37E.20.231342A 35.0 3036.0 Ground-Water Level, in feet below surface 36.0 3035.0 37.0 3034.0 38.0 3033.0 39.0 3032.0 40.0 3031.0 41.0 3030.0 42.6 3029.0 43.0 3028.0 1976 1982 1988 1994 2000 2006 Breaks in the plot represent a gap of at least one calendar year between two consecutive points.

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Water Resources

Oata Category: Ground Water Geographic Area: New Mexico

go

Ground-water levels for New Mexico

Search Results -- I sites found

Search Criteria

site_na list = • 320724103071502

Save file of selected sites to local disk for future upload

USGS 320724103071502 25S.37E.13.312434

Available data for this site

Ground-water: Levels

1

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Lea County, New Mexico **Output formats** Hydrologic Unit Code 13070007 Table of data Latitude 32°07'24", Longitude 103°07'15" NAD27 Land-surface elevation 3,081.80 feet above sea level NGVD29 Tab-separated data The depth of the well is 145 feet below land surface. Graph of data This well is completed in the ALLUVIUM, BOLSON DEPOSITS AND Reselect period OTHER SURFACE DEPOSITS (110AVMB) local aquifer. USGS 320724103671502 255,37E,13,312434 D.T. Ground-Water Level, in feet below surface 3006.0 76.0 3005.0 77.0 3004.0 Fa.a 3003.0 79.0 3002.0 84.0 3001.0 61,6 3000.0 82.0 2999.0 63.0 2998.0 84.6 1970 1976 1962 1986 1994 2000 2006 Breaks in the plot represent a gap of at least one calendar year between two consecutive points.



Data Category: **Ground Water** Geographic Area: **New Mexico**



Ground-water levels for New Mexico

Search Results -- 1 sites found

Search Criteria

• 320634103083901 site no list =

Save file of selected sites to local disk for future upload

USGS 320634103083901 25S.37E.22.42142

Available data for this site

Ground-water: Levels



GO

Lea County, New Mexico

Hydrologic Unit Code 13070007

Latitude 32°06'34", Longitude 103°08'39" NAD27

Land-surface elevation 3,051.10 feet above sea level NGVD29

The depth of the well is 42 feet below land surface.

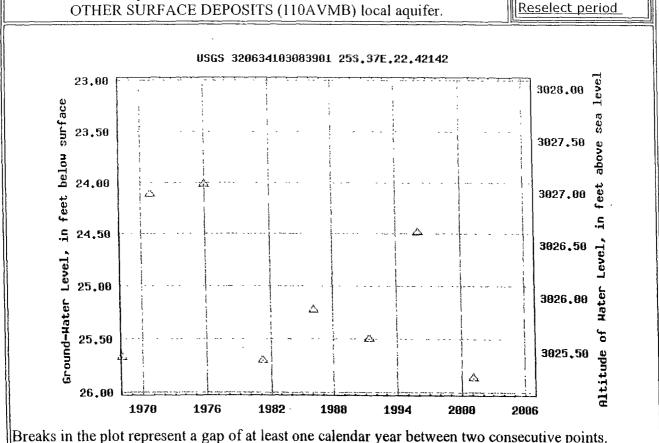
This well is completed in the ALLUVIUM, BOLSON DEPOSITS AND OTHER SURFACE DEPOSITS (110AVMB) local aquifer.

Output formats

Table of data

Tab-separated data

Graph of data



Water Resources

Data Cafegory: Ground Water

Geographic Area: **New Mexico**



Ground-water levels for New Mexico

Search Results -- 1 sites found

Search Criteria

320510103101301 site no list =

Save file of selected sites to local disk for future upload

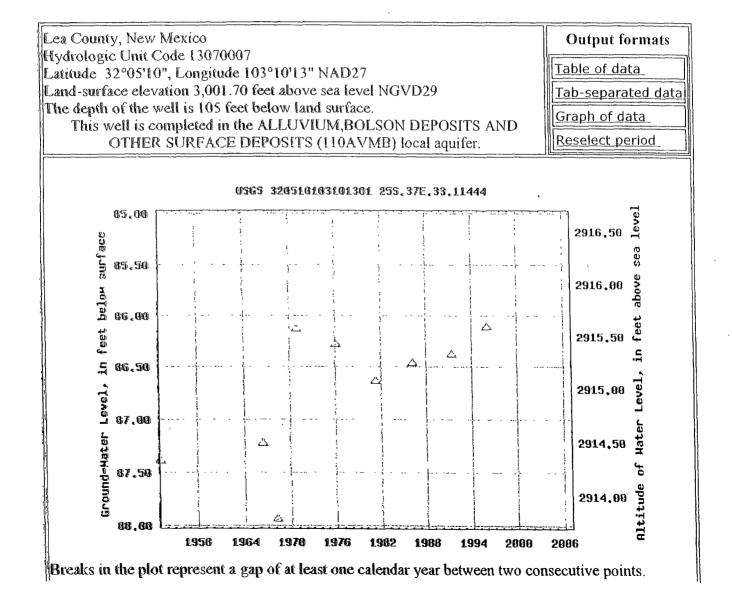
USGS 320510103101301 25S.37E.33.11444

Available data for this site

Ground-water: Levels

Brig.

GO



 $\widehat{\mathcal{A}}_{\mathcal{T}_{k}} \left\{ \begin{array}{c} \alpha & \alpha \\ \beta & \alpha \\ \end{array} \right\}$

Water Resources

Data Category:
Ground Water

Geographic Area: New Mexico

go

Ground-water levels for New Mexico

Search Results -- 1 sites found

Search Criteria

site_no list = • 320547103065702

Save file of selected sites to local disk for future upload

USGS 320547103065702 25S.37E.25.23332A

Available data for this site

Ground-water: Levels



GO

Lea County, New Mexico Hydrologic Unit Code 13070007

Latitude 32°05'47", Longitude 103°06'57" NAD27

Land-surface elevation 3,054.70 feet above sea level NGVD29

The depth of the well is 62 feet below land surface.

This well is completed in the ALLUVIUM, BOLSON DEPOSITS AND OTHER SURFACE DEPOSITS (110AVMB) local aquifer.

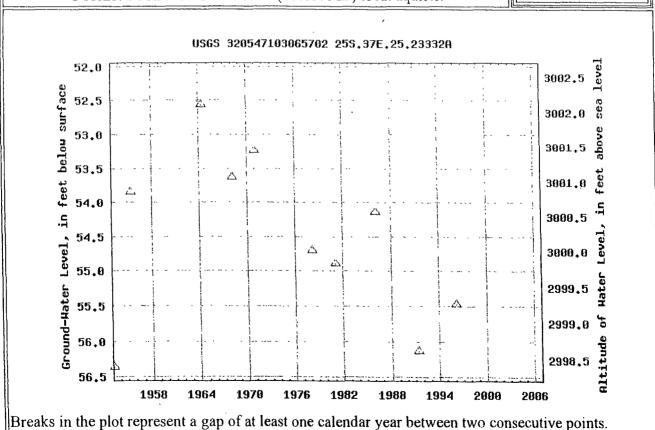
Output formats

Table of data

Tab-separated data

Graph of data

Reselect period





Data Category: Ground Water Geographic Area: New Mexico

go

Ground-water levels for New Mexico

Search Results - I sites found

Search Criteria

site no list = • 320550103081001

Save file of selected sites to local disk for future upload

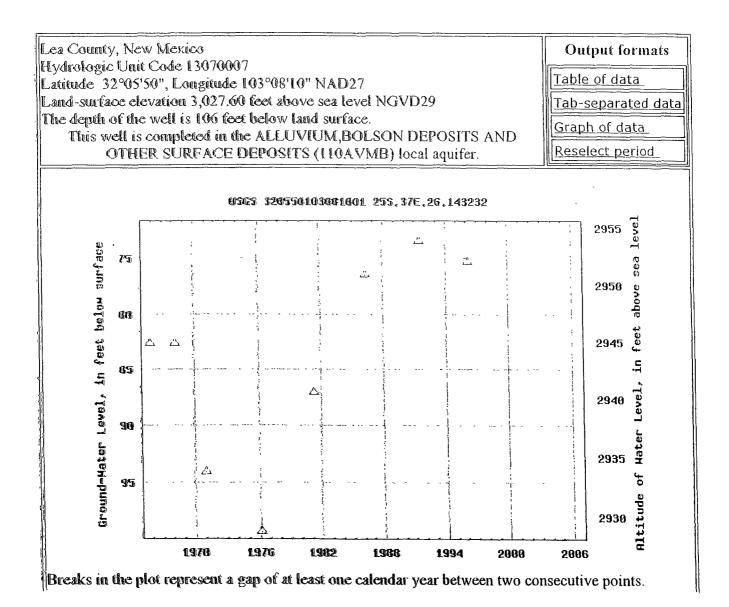
USGS 320550103081001 25S.37E.26.143232

Available data for this site

Ground-water. Levels

12/4

GO





Data Category:
Ground Water

Geographic Area:
New Mexico



Ground-water levels for New Mexico

Search Results -- 1 sites found

Search Criteria

site_no list = • 320730103114801

Save file of selected sites to local disk for future upload

USGS 320730103114801 25S.37E.18.421110

Available data for this site

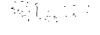
Ground-water: Levels

GO

Lea County, New Mexico **Output formats** Hydrologic Unit Code 13070007 Table of data Latitude 32°07'30", Longitude 103°11'48" NAD27 Land-surface elevation 3,107.20 feet above sea level NGVD29 Tab-separated data The depth of the well is 100 feet below land surface. Graph of data This well is completed in the ALLUVIUM, BOLSON DEPOSITS AND Reselect period OTHER SURFACE DEPOSITS (110AVMB) local aquifer. USGS 320730103114801 255.37E.18.421110 48 3058 50 3056 52

Ground-Water Level, in feet below surface 3054 3052 3050 58 3948 60 3046 62 3044 64 1970 1976 1982 1988 1994 2000 2006

Breaks in the plot represent a gap of at least one calendar year between two consecutive points.



Data Category: Ground Water Geographic Area: New Mexico

go

Ground-water levels for New Mexico

Search Results -- I sites found

Search Criteria

site no list =

• 320823103082901

Save file of selected sites to local disk for future upload

USGS 320823103082901 25S.37E.11.133343

Available data for this site

Ground-water: Levels

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Lea County, New Mexico Hydrologic Unit Code 1 30 70007

Latitude 32°08'23", Longitude 103°08'29" NAD27

Land-surface elevation 3,122.10 feet above sea level NGVD29

The depth of the well is 192 feet below land surface.

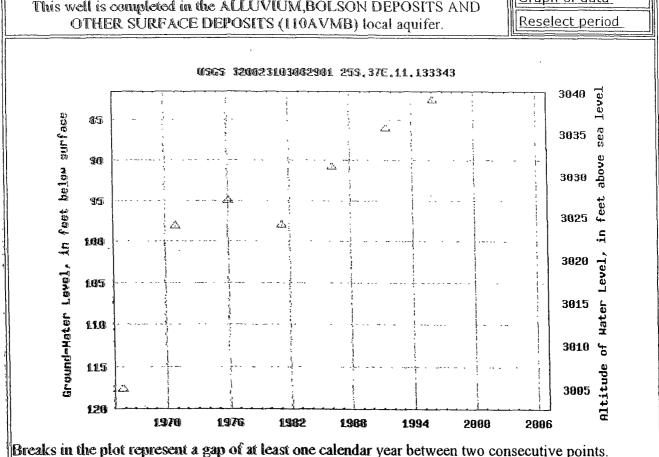
This well is completed in the ALLUVIUM, BOLSON DEPOSITS AND

Output formats

Table of data

Tab-separated data

Graph of data



Water Resources

Data Category:
Ground Water

Geographic Area: New Mexico

go

Ground-water levels for New Mexico

Search Results -- 1 sites found

Search Criteria

site_no list = • 320850103080501

Save file of selected sites to local disk for future upload

USGS 320850103080501 25S.37E.02.344141

Available data for this site

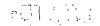
Ground-water: Levels



GO

Lea County, New Mexico **Output formats** Hydrologic Unit Code 13070007 Table of data Latitude 32°08'50", Longitude 103°08'05" NAD27 Land-surface elevation 3,126.70 feet above sea level NGVD29 Tab-separated data The depth of the well is 154 feet below land surface. Graph of data This well is completed in the ALLUVIUM, BOLSON DEPOSITS AND Reselect period OTHER SURFACE DEPOSITS (110AVMB) local aquifer. USGS 320850103080501 25S.37E.02.344141 Ground-Water Level, in feet below surface 85 3040 3030 100 3625 105 3020 1978 1976 1982 1988 1994 2000

Breaks in the plot represent a gap of at least one calendar year between two consecutive points.



Data Category: **Ground Water**

Geographic Area: **New Mexico**



go

Ground-water levels for New Mexico

Search Results -- I sites found

Search Criteria

321003103085201 site no list =

Save file of selected sites to local disk for future upload

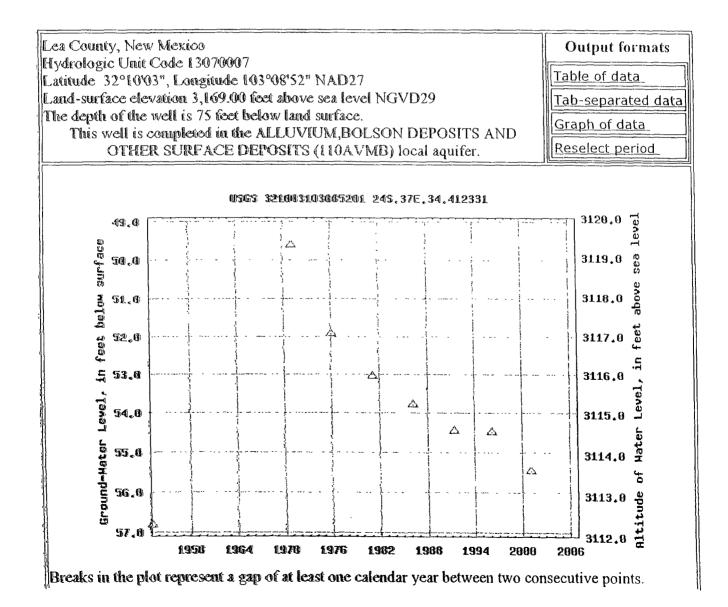
UISGS 321003103085201 248.37E.34.412331

Available data for this site

Ground-water Levels







3-3

Water Resources

Data Category:
Ground Water

Geographic Area: New Mexico

go

Ground-water levels for New Mexico

Search Results -- 1 sites found

Search Criteria

site_no list = • 321050103090301

Save file of selected sites to local disk for future upload

USGS 321050103090301 24S.37E.27.344333

Available data for this site

Ground-water: Levels

GO

Lea County, New Mexico **Output formats** Hydrologic Unit Code Table of data Latitude 32°10'50", Longitude 103°09'03" NAD27 Land-surface elevation 3,174.50 feet above sea level NGVD29 Tab-separated data The depth of the well is 84 feet below land surface. Graph of data This well is completed in the ALLUVIUM, BOLSON DEPOSITS AND Reselect period OTHER SURFACE DEPOSITS (110AVMB) local aquifer. USGS 321050103090301 24S.37E.27.344333 3139.0 Ground-Water Level, in feet below surface 36.0 3138,9 37.0 3137.0 38.0 3136.0 39.0 3135.0 40.0 3134,0 41.0 3133.0 42.0 1982 1985 1988 1991 1994 1997 2000 2003 2006 Breaks in the plot represent a gap of at least one calendar year between two consecutive points.

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Water Resources

Data Category:
Ground Water

Geographic Area: New Mexico

go

Ground-water levels for New Mexico

Search Results -- 1 sites found

Search Criteria

site_no list = 0 321105103064901

Save file of selected sites to local disk for future upload

USGS 321105103064901 24S.37E.25.234121

Available data for this site

Ground-water: Levels

GO

Lea County, New Mexico **Output formats** Hydrologic Unit Code 13070007 Table of data Latitude 32°11'05", Longitude 103°06'49" NAD27 Land-surface elevation 3,142.50 feet above sea level NGVD29 Tab-separated data The depth of the well is 135 feet below land surface. Graph of data This well is completed in the ALLUVIUM, BOLSON DEPOSITS AND OTHER SURFACE DEPOSITS (110AVMB) local aquifer. Reselect period USGS 321105103064901 245.37E.25.234121 82 3060 Ground-Water Level, in feet below surface 84 3058 86 3056 88 3654 90 3052 92 3050 94 3048 1988 1970 1976 1982 1994 2000 2006 Breaks in the plot represent a gap of at least one calendar year between two consecutive points.

Water Resources

Data Category: Ground Water

Geographic Area: New Mexico

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Ground-water levels for New Mexico

Search Results -- 1 sites found

Search Criteria

site_mo list = • 321125103093001

Save file of selected sites to local disk for future upload

USGS 321125103093001 24S.37E.28.242233

Available data for this site

Ground-water: Levels

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Lea County, New Mexico **Output formats** Hydrologic Unit Code Table of data Latitude 32°11'25", Longitude 103°09'30" NAD27 Land-surface elevation 3,205.00 feet above sea level NGVD29 Tab-separated data The depth of the well is 770 feet below land surface. Graph of data This well is completed in the SANTA ROSA SANDSTONE (231SNRS) local Reselect period aquifer. USGS 321125103093001 245.37E.28.242233 2950 Ground-Water Level, in feet below surface 260 2 2940 270 2930 289 2920 290 2910 300 1982 1985 1988 1991 1994 1997 2000 2003 Breaks in the plot represent a gap of at least one calendar year between two consecutive points.



Data Category: Ground Water Geographic Area: New Mexico



Ground-water levels for New Mexico

Search Results -- 1 sites found

Search Criteria

site_no list = 6 321045103092301

Save file of selected sites to local disk for future upload

USGS 321045103092301 24S.37E.27.332111

Available data for this site

Ground-water: Levels



GO

Lea County, New Mexico

Hydrologic Unit Code 13070007

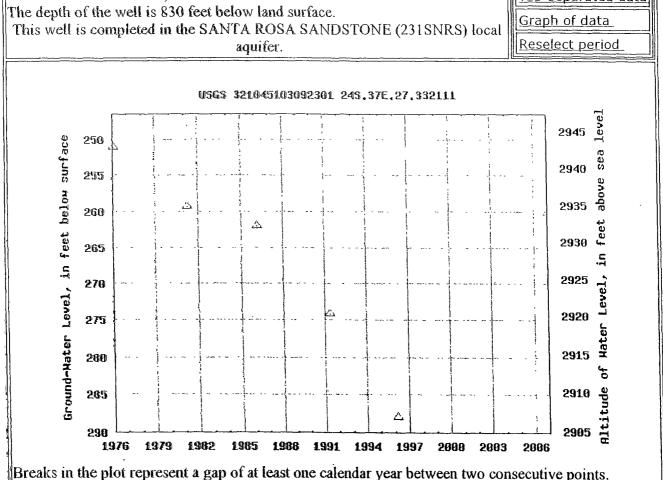
Latitude 32°10'45", Longitude 103°09'23" NAD27

Land-surface elevation 3,194.20 feet above sea level NGVD29

Output formats

Table of data

Tab-separated data





Data Category:
Ground Water

Geographic Area: New Mexico

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Ground-water levels for New Mexico

Search Results -- 1 sites found

Search Criteria

site no list = • 321235103094701

Save file of selected sites to local disk for future upload

USGS 321235103094701 24S.37E.16.42313

Available data for this site

Ground-water: Levels

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GO

Lea County, New Mexico

Hydrologic Unit Code 13070007

Latitude 32°12'35", Longitude 103°09'47" NAD27

Land-surface elevation 3,244.10 feet above sea level NGVD29

The depth of the well is 150 feet below land surface.

This well is completed in the ALLUVIUM, BOLSON DEPOSITS AND OTHER SURFACE DEPOSITS (110AVMB) local aquifer.

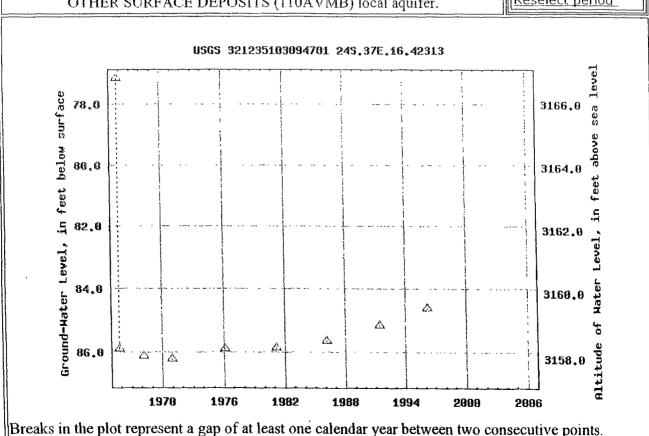
Output formats

Table of data

Tab-separated data

Graph of data

Reselect period



5. 1 - 1.

Water Resources

Data Category:Ground Water

Geographic Area: New Mexico

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Ground-water levels for New Mexico

Search Results -- 1 sites found

Search Criteria

site no list = 0 321312103080602

Save file of selected sites to local disk for future upload

USGS 321312103080602 24S.37E.11.34440

Available data for this site

Ground-water: Levels

184 X

GO

Lea County, New Mexico
Hydrologic Unit Code 13070007
Latitude 32°13'12", Longitude 103°08'06" NAD27
Land-surface elevation 3,203.80 feet above sea level NGVD29
The depth of the well is 80 feet below land surface.
This well is completed in the ALLUVIUM,BOLSON DEPOSITS AND OTHER SURFACE DEPOSITS (110AVMB) local aquifer.

USGS 321312103080602 245.37E.11.34440

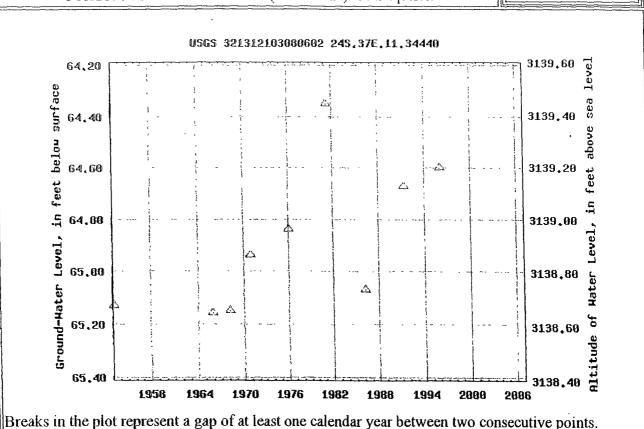
Output formats

Table of data

Tab-separated data

Graph of data

Reselect period





Data Category: Ground Water Geographic Area: **New Mexico**



Ground-water levels for New Mexico

Search Results -- 1 sites found

Search Criteria

321219103120401 site no list =

Save file of selected sites to local disk for future upload

USGS 321219103120401 24S.37E.18.433332

Available data for this site

Ground-water: Levels

GO

Lea County, New Mexico

Hydrologic Unit Code 13070007

Latitude 32°12'19", Longitude 103°12'04" NAD27

Land-surface elevation 3,302.10 feet above sea level NGVD29

The depth of the well is 150 feet below land surface.

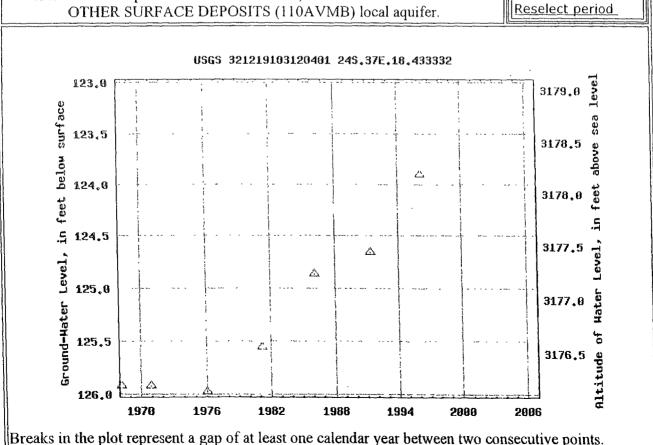
This well is completed in the ALLUVIUM, BOLSON DEPOSITS AND OTHER SURFACE DEPOSITS (110AVMB) local aquifer.

Output formats

Table of data

<u>Tab-separated data</u>

Graph of data



Data Category: Ground Water Geographic Area: **New Mexico**

go

Ground-water levels for New Mexico

Search Results -- 1 sites found

Search Criteria

site no list = 321316103094001

Save file of selected sites to local disk for future upload

USGS 321316103094001 24S.37E.09.444111

Available data for this site

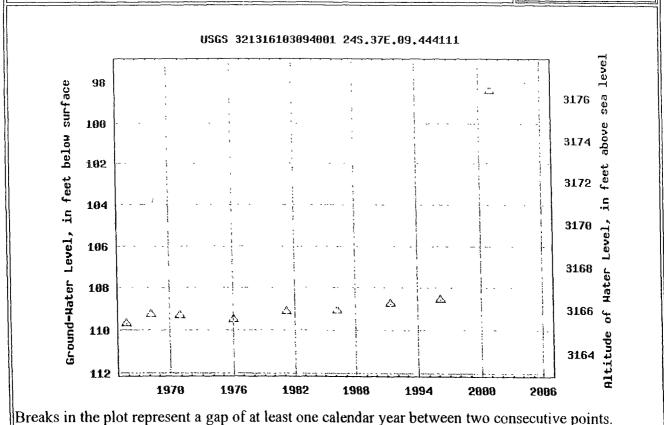
Ground-water: Levels

GO

Lea County, New Mexico Hydrologic Unit Code 13070007 Latitude 32°13'16", Longitude 103°09'40" NAD27 Land-surface elevation 3,274.90 feet above sea level NGVD29 The depth of the well is 160 feet below land surface. This well is completed in the ALLUVIUM, BOLSON DEPOSITS AND

OTHER SURFACE DEPOSITS (110AVMB) local aquifer.

Output formats Table of data Tab-separated data Graph of data Reselect period



Data Category:
Ground Water

Geographic Area:

New Mexico



Ground-water levels for New Mexico

Search Results -- 1 sites found

Search Criteria

site_no list = 0 321319103115701

Save file of selected sites to local disk for future upload

USGS 321319103115701 24S.37E.07.431244

Available data for this site

Ground-water: Levels



GO

Lea County, New Mexico
Hydrologic Unit Code 13070007
Latitude 32°13'19", Longitude 103°11'57" NAD27
Land-surface elevation 3,304.10 feet above sea level NGVD29
The depth of the well is 152 feet below land surface.

This well is completed in the ALLUVIUM, BOLSON DEPOSITS AND OTHER SURFACE DEPOSITS (110AVMB) local aquifer.

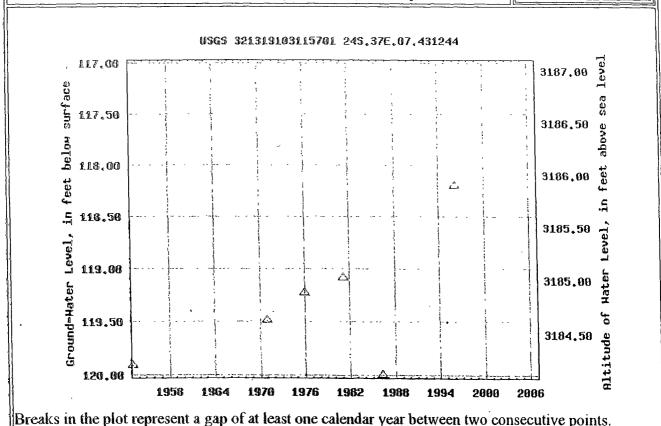
Output formats

Table of data

Tab-separated data

Graph of data

Reselect period





Data Category:Ground Water

Geographic Area: New Mexico





Ground-water levels for New Mexico

Search Results -- 1 sites found

Search Criteria

site_no list = • 321215103134302

Save file of selected sites to local disk for future upload

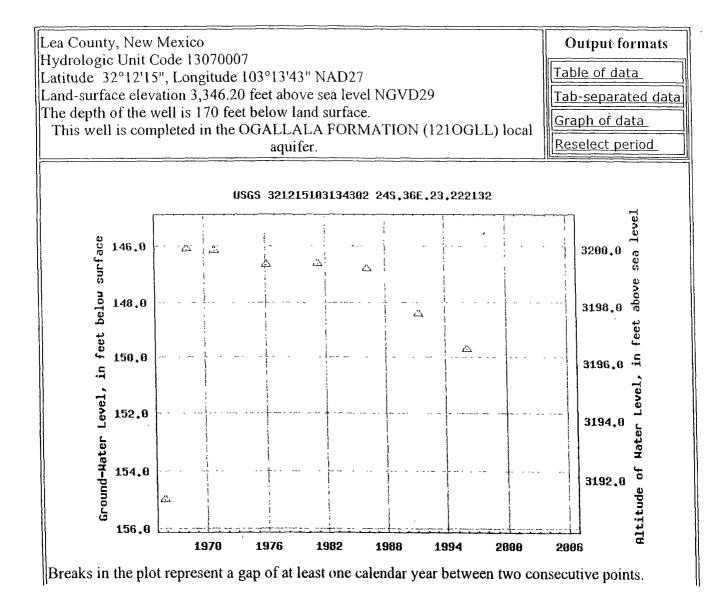
USGS 321215103134302 24S.36E.23.222132

Available data for this site

Ground-water: Levels







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Water Resources

Data Category: **Ground Water**

Geographic Area: New Mexico

go

Ground-water levels for New Mexico

Search Results -- 1 sites found

Search Criteria

· 321024103162901 site no list =

Save file of selected sites to local disk for future upload

USGS 321024103162901 24S.36E.33.13343

Available data for this site

Ground-water: Levels



·GO

Lea County, New Mexico Hydrologic Unit Code

Latitude 32°10'24", Longitude 103°16'29" NAD27

Land-surface elevation 3,233.00 feet above sea level NGVD29

The depth of the well is 75 feet below land surface.

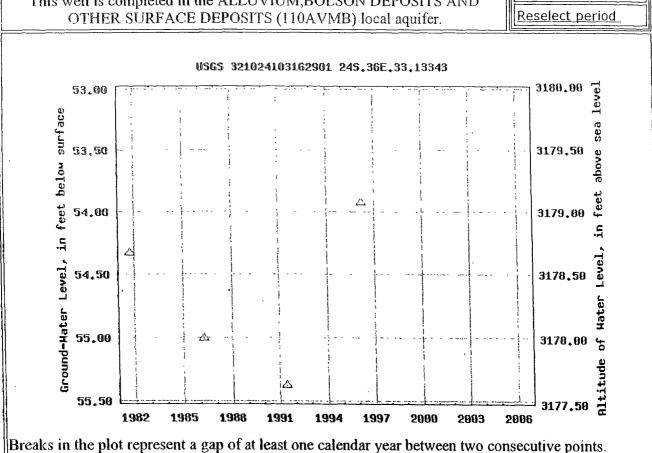
This well is completed in the ALLUVIUM, BOLSON DEPOSITS AND OTHER SURFACE DEPOSITS (110AVMB) local aquifer.

Output formats

Table of data

Tab-separated data

Graph of data



APPENDIX B



Analytical Report

Prepared for:

Ike Tavarez
Highlander Environmental Corp.
1910 N. Big Spring St.
Midland, TX 79705

Project: COG/ Jalmat #7 Well Flow Line Leak

Project Number: 2737 Location: Lea County, NM

Lab Order Number: 6J31010

Report Date: 11/07/06

Project COG/ Jalmat #7 Well Flow Line Leak

Fax (432) 682-3946

1910 N Big Spring St Midland TX, 79705 Project Number 2737 Project Manager. Ike Tavarez

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SP-#1 (0-1 0) BEB Bottom 7 0'	6J31010-01	Soil	10/30/06 00 00	10-31-2006 14 20
SP-#2 (0-1 0) BEB Bottom 14 0'	6J31010-02	Soil	10/30/06 00 00	10-31-2006 14 20
SP-#3 (0-10) BEB Bottom 7 0'	6J31010-04	Soil	10/30/06 00 00	10-31-2006 14 20
SP-#4 (0-1 0) BEB Bottom 4 0'	6J31010-05	Soil	10/30/06 00 00	10-31-2006 14 20
SP-#5 (0-1 0) BEB Bottom 7 0'	6J31010-07	Soil	10/30/06 00.00	10-31-2006 14 20
SP-#6 (0-1 0) BEB Bottom 3 0'	6J31010-09	Soil	10/30/06 00 00	10-31-2006 14:20
SP-#7 (0-1 0) BEB Bottom 2 5'	6J31010-10	Soil	10/30/06 00 00	10-31-2006 14 20
SP-#8 (0-1 0) BEB Bottom 2 0'	6.J31010-11	Soil	10/30/06 00 00	10-31-2006 14 20
SP-#9 (0-1 0) BEB Bottom 1 0'	6J31010-12	Soil	10/30/06 00 00	10-31-2006 14 20
SP-#10 (0-1 0) BEB Bottom 1 0'	6J31010-13	Soil	10/30/06 00 00	10-31-2006 14 20
SP-#11 (0-1 0) BEB Bottom 2 0'	6J31010-14	Soil	10/30/06 00 00	10-31-2006 14 20
SP-#12 (0-1 0) BEB Bottom 3 0'	6J31010-15	Soil	10/30/06 00 00	10-31-2006 14 20
SP-#13 (0-10) BEB Bottom 2 5'	6J31010-17	Soil	10/30/06 00 00	10-31-2006 14:20

Project COG/ Jalmat #7 Well Flow Line Leak

Project Number 2737
Project Manager Ike Tavarez

Fax (432) 682-3946

Organics by GC Environmental Lab of Texas

		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Not
SP-#1 (0-1.0) BEB Bottom 7.0' (6J3101	0-01) Soil		·						
Benzene	ND	0 0250	mg/kg dry	25	EK60105	11/01/06	11/02/06	EPA 8021B	
Toluene	ND	0 0250	"	**	ęt	η	п	D	
Ethylbenzene	ND	0 0250	**	н	**	"	н	"	
Xylene (p/m)	ND	0.0250	11	"	,,	н	n	II .	
Xylene (o)	ND	0 0250,	ч	n	н	n	n	w	
Surrogate: a,a,a-Trifluorotoluene		86.2 %	80-1	20	"	n	"	"	
Surrogate. 4-Bromofluorobenzene		107 %	80-1	20	*	"	n	"	
Carbon Ranges C6-C12	ND	100	mg/kg dry	ι	EK60109	11/01/06	11/02/06	EPA 8015M	
Carbon Ranges C12-C28	ND	100	11	11	ď	"	и	"	•
Carbon Ranges C28-C35	ND	10 0	"	п	n	11	"	н	
Total Hydrocarbons	ND	100	н	н	16	"	н	n	
Surrogate. 1-Chlorooctane		75.4 %	70-1	130	"	n	,,	"	
Surrogate 1-Chlorooctadecane		70 2 %	70-1	130	u	"	"	u	
SP-#2 (0-1.0) BEB Bottom 14.0' (6J310	10-02) Soil								
Benzene	ND	0 0250	mg/kg dry	25	EK60105	11/01/06	11/02/06	EPA 8021B	
Toluene	ND	0 0250	"	n	**	II.	11	"	
Ethylbenzene	ND	0 0250	n	n	**	"	"	п	
Xylene (p/m)	ND	0 0250	и	"	n	н	"	11	
Xylene (o)	ND	0 0250	"	**	n	"	n	п	
Surrogate. a,a,a-Trifluorotoluene		83 0 %	80-1	20	"	"	"	"	
Surrogate. 4-Bromofluorobenzene		93.0 %	. 80-1	120	"	"	"	*	
Carbon Ranges C6-C12	ND	100	mg/kg dry	1	EK60109	11/01/06	11/02/06	EPA 8015M	
Carbon Ranges C12-C28	ND	100	u	**	"	11	11	11	
Carbon Ranges C28-C35	ND	100	"	11	H	n	н	"	
Total Hydrocarbons	ND	100	n	19	n	п	"	Ħ	
Surrogate: 1-Chlorooctane		75.4 %	70-1	130	"	"	"	"	
Surrogate: 1-Chlorooctadecane		706%	70-1	130	"	u	"	"	
SP-#3 (0-1.0) BEB Bottom 7.0' (6J3101	0-04) Soil	_					•		
Benzene	ND	0 0250	mg/kg dry	25	EK60303	11/03/06	11/06/06	EPA 8021B	
Toluene	ND	0 0250	п	н	"	**		11	
Ethylbenzene	ND	0.0250	. "	"		"	"	n	
Xylene (p/m)	ND	0 0250	11	•	0	n	"	n	
Xylene (o)	ND	0 0250	*	15	**	n	11	"	
Surrogate. a,a,a-Trifluorotoluene		103 %	80-	120	н	**	,	33	
Surrogate 4-Bromofluorobenzene		101 %	80-	120	"	"	"	n	
Carbon Ranges C6-C12	ND	100	mg/kg dry	1	EK60109	11/01/06	11/02/06	EPA 8015M	

Environmental Lab of Texas

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Environmental Lab of Texas

Highlander Environmental Corp 1910 N Big Spring St

Project COG/ Jalmat #7 Well Flow Line Leak

Fax (432) 682-3946

Project Number: 2737 Midland TX, 79705 Project Manager Ike Tavarez

Organics by GC Environmental Lab of Texas

Analyta	Result	Reporting Limit	Units	D.1 :	ъ.	D .			`
Analyte		Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Note
SP-#3 (0-1.0) BEB Bottom 7.0' (6J3101	0-04) Soil 						·		
Carbon Ranges C12-C28	ND	100	mg/kg dry	1	EK60109	11/01/06	11/02/06	EPA 8015M	
Carbon Ranges C28-C35	ND	100	n	"	n	н	"	п	
Total Hydrocarbons	ND	10 0	ır		и	"	"	н	
Surrogate: 1-Chlorooctane		79.0 %	70-	130	,,	n n	"	n	
Surrogate [·] 1-Chlorooctadecane		70 0 %	70-	130	n .	"	"	"	
SP-#4 (0-1.0) BEB Bottom 4.0' (6J3101	0-05) Soil								
Benzene	ND	0 0250	mg/kg dry	25	EK60303	11/03/06	11/06/06	EPA 8021B	
Toluene	ND	0 0250	11	n	"	"	"	11	
Ethylbenzene	ND	0 0250	"	u	n	u	n	**	
Xylene (p/m)	ND	0 0250	"	"	"	"	n	н	
Xylene (o)	ND	0 0250	**	,	n	**	**	n	
Surrogate: a,a,a-Trifluorotoluene		101 %	80-	120	"	"	"	u	
Surrogate 4-Bromofluorobenzene		920%	80-	120	"	"	"	п	
Carbon Ranges C6-C12	ND	10 0	mg/kg dry	1	EK60109	11/01/06	11/02/06	EPA 8015M	
Carbon Ranges C12-C28	ND	100	"	**	n	n	"	u	
Carbon Ranges C28-C35	ND	100	n	**	**	į1	N	n	
Total Hydrocarbons	ND	100	U	n	'n		п	п	
Surrogate 1-Chlorooctane		768%	70-	130	"	"	"	"	
Surrogate: 1-Chlorooctadecane		71 2 %	70-	130	n	"	"	н	
SP-#5 (0-1.0) BEB Bottom 7.0' (6J3101	0-07) Soil								
Benzene	ND	0 0250	mg/kg dry	25	EK60303	11/03/06	11/06/06	EPA 8021B	
Toluene	ND	0 0250	"	11	н	μ	"	11	
Ethylbenzene	ND	0 0250	**	#	"	#	II.	н	
Xylene (p/m)	ND	0 0250	"	11	11	u	"	н	
Xylene (o)	ND	0 0250	•	11	,,	It	n		
Surrogate. a,a,a-Tryfluorotoluene		97.2 %	80-	120	n	"	"	"	
Surrogate: 4-Bromofluorobenzene		104 %	80-	120	"	"	,,	"	
Carbon Ranges C6-C12	ND	10 0	mg/kg dry	1	EK60109	11/01/06	11/02/06	EPA 8015M	
Carbon Ranges C12-C28	ND	10.0	R	11	"	•	н	11	
Carbon Ranges C28-C35	ND	10 0	н	"	14	H	**	"	
Total Hydrocarbons	ND	100	**	H	"	H	"	n	
Surrogate: 1-Chlorooctane		76 2 %	70-	130	"	" ,	n	n	
Surrogate: 1-Chlorooctadecane		70.4 %	70-	130	n	,,	,,	,,	

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Project COG/ Jalmat #7 Well Flow Line Leak

Project Number 2737
Project Manager Ike Tavarez

Fax (432) 682-3946

Analyte	Result	Reporting Lunit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SP-#6 (0-1.0) BEB Bottom 3.0' (6J3101	_			Dittition	Daten	Trepared	Allaryzeu	- Iviculod	110162
Carbon Ranges C6-C12	ND	100	mg/kg dry	1	EK60110	11/01/06	11/02/06	EPA 8015M	
Carbon Ranges C12-C28	ND	100	"	,	"	"	11702700	B177 00 15771	
Carbon Ranges C28-C35	ND	100	"	и	,	"	16	**	
Total Hydrocarbons	ND	100	"	и	п	a	н	н	
Surrogate. 1-Chlorooctane		74 0 %	70-1	130	"	"	"	n	
Surrogate 1-Chlorooctadecane		70.4 %	70-1	30	н	"	"	n	
SP-#7 (0-1.0) BEB Bottom 2.5' (6J3101	0-10) Soil				,				
Carbon Ranges C6-C12	ND	100	mg/kg dry	ı	EK60110	11/01/06	11/02/06	EPA 8015M	
Carbon Ranges C12-C28	ND	10 0	n	н	**	"	n		
Carbon Ranges C28-C35	ND	100	tt	"	н	"	**	n	
Total Hydrocarbons	ИD	100	11	••	15	11	н	п	
Surrogate: I-Chlorooctane		75.6 %	70-1	130	"	"	"	n	
Surrogate: 1-Chlorooctadecane		70 6 %	70-1	130	"	"	n	п	
SP-#8 (0-1.0) BEB Bottom 2.0' (6J310)	0-11) Soil								
Benzene	ND	0 0250	mg/kg dry	25	EK60303	11/06/06	11/06/06	EPA 8021B	
Toluene	ND	0.0250	U	11	n	11	"	"	
Ethylbenzene	ND	0 0250	н	**	11	"	" "	tt	
Xylene (p/m)	, ND	0 0250	**	n	n	n	n	н	
Xylene (o)	ND	0 0250	п	11	u u	п	"	п	
Sui rogate: a,a,a-Trifluorotoluene		99.8 %	80-	120	"	"	"	"	
Surrogate 4-Bromofluorobenzene		100 %	80-1	120	"	n	"	"	
Carbon Ranges C6-C12	ND	100	mg/kg dry	1	EK60110	11/01/06	11/02/06	EPA 8015M	
Carbon Ranges C12-C28	28.4	100	n	**	"	11	11	н	
Carbon Ranges C28-C35	ND	100	**	n	Ħ	. #	**	"	
Total Hydrocarbons	28.4	100	it		**	n	**	и	
Surrogate. 1-Chlorooctane		82.8 %	70-	130	"	"	"	"	
Surrogate 1-Chlorooctadecane		75 2 %	70-	130	"	,,	"	"	

Project COG/ Jalmat #7 Well Flow Line Leak

Project Number 2737 Project Manager Ike Tavarez Fax (432) 682-3946

Organics by GC Environmental Lab of Texas

Analyte	Result	Reporting Lunit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SP-#9 (0-1.0) BEB Bottom 1.0' (6J310	10-12) Soil								
Benzene	ND	0 0250	mg/kg dry	25	EK60303	11/06/06	11/06/06	EPA 8021B	
Toluene	ND	0 0250	н	"	н	**	и	n	
Ethylbenzene	ND	0 0250	tt	"	11	II	11	•	
Xylene (p/m)	ND	0 0250	II .	n n	11	11	II.	n	
Xylene (o)	ND	0 0250	11	н	n		n	н	
Surrogate: a,a,a-Trifluorotoluene		100 %	80-1	20	"	"	u	n	
Surrogate. 4-Bromofluorobenzene		108 %	80-1	20	"	n	"	n	
Carbon Ranges C6-C12	ND	100	mg/kg dry	i	EK60110	11/01/06	11/02/06	EPA 8015M	
Carbon Ranges C12-C28	85.7	100	11	н	**	rr .	u u	11	
Carbon Ranges C28-C35	J [8.60]	10 0	n	**		ır	"	,,	J
Total Hydrocarbons	85.7	10 0	"	"	D	**	**	**	
Surrogate. 1-Chlorooctane		860%	70-1	30	"	"	"	"	
Surrogate. 1-Chlorooctadecane		76.6 %	70-1	30	"	,,	n	"	
SP-#10 (0-1.0) BEB Bottom 1.0' (6J31	010-13) Soil			•					
Carbon Ranges C6-C12	ND	100	mg/kg dry	l	EK60110	11/01/06	11/02/06	EPA 8015M	
Carbon Ranges C12-C28	ND	100	"	n	11	#	r	tt	
Carbon Ranges C28-C35	ND	100	н	a a	"	11	н	n	
Total Hydrocarbons	ND	100	11	n	n	"	11	п	
Surrogate: 1-Chlorooctane		812%	70-1	30	"	"	,,	"	
Surrogate: 1-Chlorooctadecane		71.2 %	70-1	30	"	"	"	n	
SP-#11 (0-1.0) BEB Bottom 2.0' (6J31	010-14) Soil								
Benzene	ND	0 0250	mg/kg dry	25	EK60303	11/06/06	11/06/06	EPA 8021B	
Toluene	ND	0 0250	n	**	11	**	•	**	
Ethylbenzene	ND	0 0250	n	н	"	**	**	**	
Xylene (p/m)	ND	0 0250	**	11	"	"	"	e	
Xylene (o)	, ND	0.0250	n	"	n	n	"	"	
Surrogate: a,a,a-Trifluorotoluene		97.0 %	80-1	20	"	,,	"	н	
Surrogate. 4-Bromofluorobenzene		92.5 %	80-1	20	"	"	"	"	
Carbon Ranges C6-C12	ND	100	mg/kg dry	1	EK60110	11/01/06	11/02/06	EPA 8015M	
Carbon Ranges C12-C28	37.2	10 0	n	"	n	**	11	11	
Carbon Ranges C28-C35	J [6.34]	100	"	"	н		"	**	j
Total Hydrocarbons	37.2	100	н	n	u	n *	н	ч	
Surrogate: 1-Chlorooctane		84 4 %	70-1	130	"	"	"	"	
Surrogate: 1-Chlorooctadecane		75.0 %	70-1	30	"	n	#	"	

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Project COG/ Jalmat #7 Well Flow Line Leak

Project Number 2737
Project Manager. Ike Tavarez

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		Reporting							,
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SP-#12 (0-1.0) BEB Bottom 3.0' (6J31	010-15) Soil								
Carbon Ranges C6-C12	ND	100	mg/kg dry	1	EK60110	11/01/06	11/02/06	EPA 8015M	
Carbon Ranges C12-C28	ND	100	*	н	"	11	11	n	
Carbon Ranges C28-C35	ND	100	"	"	"	•	u	n	
Total Hydrocarbons	ND	10 0	II.	"	н	"	п	n	
Surrogate: 1-Chlorooctane		83.4 %	70-1	30	"	,,	"	"	
Surrogate. 1-Chlorooctadecane		74.4 %	70-1	30	"	"	"	"	
SP-#13 (0-1.0) BEB Bottom 2.5' (6J31	010-17) Soil							_	
Carbon Ranges C6-C12	ND	100	mg/kg dry	1	EK60110	11/01/06	11/02/06	EPA 8015M	
Carbon Ranges C12-C28	ND	100	**	"	"	u	t u	ęi	
Carbon Ranges C28-C35	ND	100	11	**	11	п	n	15	
Total Hydrocarbons	ND	10 0	11	, "	u	•	"	"	
Surrogate: 1-Chlorooctane		77.4 %	70-1	30	"	"	"	"	
Surrogate 1-Chlorooctadecane		70.4 %	70-1	30	"	"	n	u	

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Midland TX, 79705

Project COG/ Jalmat #7 Well Flow Line Leak

Project Number 2737 Project Manager Ike Tavarez Fax (432) 682-3946

General Chemistry Parameters by EPA / Standard Methods Environmental Lab of Texas

							`		
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SP-#1 (0-1.0) BEB Bottom 7.0)' (6J31010-01) Soil								
Chloride	12.8	5 00	mg/kg	10	EK60103	11/01/06	11/03/06	EPA 300 0	
% Moisture	2.3	0.1	%	1	EK60229	10/31/06	11/01/06	% calculation	
SP-#2 (0-1.0) BEB Bottom 14.	.0' (6J31010-02) Soil								
Chloride	608	100	mg/kg	20	EK60103	11/01/06	11/03/06	EPA 300 0	
% Moisture	2.7	0 1	%	l	EK60229	10/31/06	11/01/06	% calculation	
SP-#3 (0-1.0) BEB Bottom 7.0)' (6J31010-04) Soil								
Chloride	124	5 00	mg/kg	10	EK60103	11/01/06	11/03/06	EPA 300 0	
% Moisture	4.4	0 1	%	1	EK60229	10/31/06	11/01/06	% calculation	
SP-#4 (0-1.0) BEB Bottom 4.0	0' (6J31010-05) Soil								
Chloride	589	100	mg/kg	20	EK60103	11/01/06	11/03/06	EPA 300 0	
% Moisture	4.9	0 1	%	l	EK60229	10/31/06	11/01/06	% calculation	
SP-#5 (0-1.0) BEB Bottom 7.0	0' (6J31010-07) Soil								
Chloride	701	100	mg/kg	20	EK60103	11/01/06	11/03/06	EPA 300 0	
% Moisture	8.0	0.1	%	1	EK60229	10/31/06	11/01/06	% calculation	
SP-#6 (0-1.0) BEB Bottom 3.0	0' (6J31010-09) Soil								
Chloride	760	100	mg/kg	20	EK60103	11/01/06	11/03/06	EPA 300 0	
% Moisture	6.7	0 1	%	1	EK60229	10/31/06	11/01/06	% calculation	
SP-#7 (0-1.0) BEB Bottom 2.5	5' (6J31010-10) Soil								
Chloride	609	100	mg/kg	20	EK60103	11/01/06	11/03/06	EPA 300 0	
% Moisture	6.1	0 1	%	ι	EK60229	10/31/06	11/01/06	% calculation	
SP-#8 (0-1.0) BEB Bottom 2.0	0' (6J31010-11) Soil								
Chloride	161	100	mg/kg	20	EK60103	11/01/06	11/03/06	EPA 300 0	
% Moisture	5.4	0 1	%	1	EK60229	10/31/06	11/01/06	% calculation	

Project COG/ Jalmat #7 Well Flow Line Leak

Project Number 2737
Project Manager Ike Tavarez

Fax (432) 682-3946

General Chemistry Parameters by EPA / Standard Methods Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dis	D. (1	D	A . 1	No. 1	
			Offits	Dilution	Batch	Prepared	Analyzed	Method	Notes
SP-#9 (0-1.0) BEB Bottom 1.0' (6J3	51010-12) 8011								•
Chloride	214	5 00	mg/kg	10	EK60103	11/01/06	11/03/06	EPA 300 0	
% Moisture	6.1	0 1	%	1	EK60229	10/31/06	11/01/06	% calculation	
SP-#10 (0-1.0) BEB Bottom 1.0' (6J	(31010-13) Soil			1					
Chloride	455	100	mg/kg	20	EK60103	11/01/06	11/03/06	EPA 300 0	
% Moisture	8.9	0 1	%	ı	EK60229	10/31/06	11/02/06	% calculation	
SP-#11 (0-1.0) BEB Bottom 2.0' (6J	31010-14 Soil								
Chloride	10.7	5 00	mg/kg	10	EK60103	11/01/06	11/03/06	EPA 300 0	
% Moisture	6.2	0 1	%	1	EK60229	10/31/06	11/02/06	% calculation	
SP-#12 (0-1.0) BEB Bottom 3.0' (6J	31010-15) Soil								
Chloride	724	100	mg/kg	20	EK60103	11/01/06	11/03/06	EPA 300 0	
% Moisture	5.7	0 1	%	1	EK60229	10/31/06	11/02/06	% calculation	
SP-#13 (0-1.0) BEB Bottom 2.5' (63	31010-17) Soil								
Chloride	9.80	5 00	mg/kg	10	EK60103	11/01/06	11/03/06	EPA 300 0	
% Moisture	4.9	0 1	%	1	EK60229	10/31/06	11/01/06	% calculation	

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Project COG/ Jalmat #7 Well Flow Line Leak

Project Number 2737 Project Manager Ike Tavarez Fax (432) 682-3946

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
	ixeauit	- Emili	Onto	Ecvoi	ixesuit	/0KEC	Limits	IN D	- Dillit	110105
Batch EK60105 - EPA 5030C (GC)	<u> </u>						****			
Blank (EK60105-BLK1)				Prepared &	Analyzed	11/01/06				
Benzene	ND	0 0250	mg/kg wet							
Toluene	ND	0 0250	11							
Ethylbenzene	ND	0 0250	**							
Xylene (p/m)	ND	0 0250	**							
Xylene (o)	ND	0 0250	**							
Surrogate a,a,a-Trifluorotoluene	33.0		ug kg	40 0		82 5	80-120			
Surrogate 4-Bromofluorobenzene	37.2		"	40.0		93 0	80-120			
LCS (EK60105-BS1)				Prepared &	Analyzed	11/01/06				*
Benzene	1 45	0 0250	mg/kg wet	l 25		116	80-120			
Toluene	1 40	0 0250	"	1 25		112	80-120			
Ethylbenzene	1 27	0 0250	,,	1 25		102	80-120			
Xylene (p/m)	2 95	0 0250	n	2 50		118	80-120			
Xylene (o)	1 19	0 0250	"	1 25		95 2	80-120			
Surrogate a,a,a-Trifluorotoluene	36 7		ug·kg	40 0		918	80-120			
Surrogate 4-Bromofluorobenzene	35 3		. "	40 0		88 2	80-120			
Calibration Check (EK60105-CCV1)				Prepared	11/01/06 A	nalyzed 1	1/02/06			
Benzene	53 8		ug/kg	50 0		108	80-120			
Toluene	48 7		"	50 0		97 4	80-120			
Ethylbenzene	47 7			50 0		95 4	80-120			
Xylene (p/m)	97 2		Ħ	100		97 2	80-120		Ţ	
Xylene (o)	40 6		n	50 0		81 2	80-120			
Surrogate a,a,a-Trifluorotoluene	36 8		"	40.0		92 0	80-120			
Surrogate: 4-Bromofluorobenzene	35 1		n	40 0		87.8	80-120			
Matrix Spike (EK60105-MS1)	Sou	ırce: 6J27009	-05	Prepared	11/01/06 A	nalyzed 1	1/02/06			
Benzene	1 46	0 0250	mg/kg dry	141	ND	104	80-120			
Toluene	1 45	0 0250	"	141	ND	103	80-120			
Ethylbenzene	i 47	0 0250	н	141	ND	104	80-120			
Xylene (p/m)	3 09	0 0250	n	2 81	ND	110	80-120			
Xylene (o)	1 26	0.0250	н	141	ND	89 4	80-120			
Surrogate a,a,a-Trifluorotoluene	32 5		ug kg	40.0		81 2	80-120			
Surrogate 4-Bromofluorobenzene	40.0		"	40.0		100	80-120			

1910 N Big Spring St Midland TX, 79705

Project COG/ Jalmat #7 Well Flow Line Leak

Project Number 2737

Project Manager Ike Tavarez

Fax (432) 682-3946

Organics by GC - Quality Control **Environmental Lab of Texas**

Reporting	Spike	Source	%REC	RPD	}

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch EK60105 - EPA 5030C (GC)	·									
Matrix Spike Dup (EK60105-MSD1)	Sour	ce: 6J27009	-05	Prepared 1	11/01/06 A	nalyzed 11	/02/06			
Benzene	1 52	0 0250	mg/kg dry	1 41	ИD	108	80-120	3 77	20	
Toluene	l 46	0 0250	**	141	ND	104	80-120	0 966	20	
Ethylbenzene	1.44	0 0250	"	141	ND	102	80-120	1 94	20	
Xylene (p/m)	3 04	0 0250	"	2 81	ND	108	80-120	1 83	20	
Xylene (o)	1 20	0 0250	**	141	ND	85 1	80-120	4 93	20	
Surrogate a,a,a-Trifluorotoluene	32 3		ug kg	40 0		808	80-120			
Surragate 4-Bromofluorohenzene	39 7	•	"	40 0		99.2	80-120			
Batch EK60109 - Solvent Extraction (GC)						•				
Blank (EK60109-BLK1)				Prepared &	k Analyzed	11/01/06				
Carbon Ranges C6-C12	ND	100	mg/kg wet							
Carbon Ranges C12-C28	ND	10 0	**							
Carbon Ranges C28-C35	ND	10 0	**							
Total Hydrocarbons	ND	10 0	"							
Surrogate 1-Chlorooctane	11 1		mg′kg	50 0		88 8	70-130			
Surrogate 1-Chlorooctadecane	413		"	500		82 6	70-130			
LCS (EK60109-BS1)				Prepared &	k Analyzed	11/01/06				
Carbon Ranges C6-C12	468	10 0	mg/kg wet	500		93 6	75-125			
Carbon Ranges C12-C28	442	10 0	н	500		88 4	75-125			
Carbon Ranges C28-C35	ND	10 0	11	0 00			75-125			
Total Hydrocarbons	910	10 0	"	1000		910	75-125			
Surrogate: 1-Chlorooctane	56 9		mg kg	50 0		114	70-130			
Surrogate 1-Chlorooctadecane	42 5		"	50 0		85 0	70-130			
Calibration Check (EK60109-CCV1)				Prepared	11/01/06 A	nalyzed 11	1/02/06			
Carbon Ranges C6-C12	205		mg/kg	250		82 0	80-120			
Carbon Ranges C12-C28	231		n	250		92 4	80-120			
Total Hydrocarbons	435		n	500		87.0	80-120			
Surrogate 1-Chlorooctane	45 5		"	50.0		910	70-130			

37 4

Surrogate 1-Chlorooctadecane

748

70-130

50 0

Project COG/ Jalmat #7 Well Flow Line Leak

Fax (432) 682-3946

1910 N Big Spring St Midland TX, 79705 Project Number 2737 Project Manager Ike Tavarez

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch EK60109 - Solvent Extraction (GC)							·			
Matrix Spike (EK60109-MS1)	Sou	rce: 6J30014	-03	Prepared	11/01/06 A	nalyzed 1	1/02/06			
Carbon Ranges C6-C12	512	100	mg/kg dry	576	ND	88 9	75-125			
Carbon Ranges C12-C28	486	100	"	576	ND	84 4	75-125			
Carbon Ranges C28-C35	ND	10 0	"	0 00	ND		75-125			
Total Hydrocarbons	998	10 0	"	1150	ND	86 8	75-125			
Surrogate 1-Chlorooctane	508		mg kg	50 0		102	70-130			
Surrogate 1-Chlorooctadecane	38 7		"	50 0		77 4	70-130			
Matrix Spike Dup (EK60109-MSD1)	Sou	rce: 6J30014	-03	Prepared	11/01/06 A	nalyzed [.] 1	1/02/06			
Carbon Ranges C6-C12 .	524	10 0	mg/kg dry	576	ND	910	75-125	2 32	20	
Carbon Ranges C12-C28	498	10 0	n	576	ND	86 5	75-125	2 44	20	
Carbon Ranges C28-C35	ND	10 0	11	0 00	ND		75-125		20	
Total Hydrocarbons	1020	100	**	1150	ND	88 7	75-125	2 18	20	
Surrogate: 1-Chlorooctane	53 4		mg/kg	50.0		107	70-130			
Surrogate 1-Chlorooctadecane	39 1		"	50 0		78 2	70-130			
Batch EK60110 - Solvent Extraction (GC)				.=						
Blank (EK60110-BLK1)				Prepared	11/01/06 A	nalyzed I	1/02/06			
Carbon Ranges C6-C12	ND	100	mg/kg wet							
Carbon Ranges C12-C28	ND	10 0	u							
Carbon Ranges C28-C35	ND	10 0	н							
Total Hydrocarbons	ND	10 0	10							
Surrogate 1-Chlorooctane	46 2		mg·kg	50 0		92 4	70-130			
Surrogate 1-Chlorooctadecane	42 7		"	50 0		85 4	70-130			
LCS (EK60110-BS1)				Prepared	11/01/06 A	nalyzed 1	1/02/06			
Carbon Ranges C6-C12	486	10 0	mg/kg wet	500		97 2	75-125			
Carbon Ranges C12-C28	452	10 0	11	500		90 4	75-125			
Carbon Ranges C28-C35	ND	100	"	0 00			75-125			
Total Hydrocarbons	938	100	n	1000		93 8	75-125			
Surrogate 1-Chlorooctane	58 7		mg·kg	50 0		117	70-130			
Surrogate 1-Chlorooctadecane	44 1		"	50 0		88 2	70-130			

1910 N Big Spring St Midland TX, 79705 Project COG/ Jalmat #7 Well Flow Line Leak

Project Number 2737
Project Manager Ike Tavarez

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Organics by GC - Quality Control

Environmental Lab of Texas

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch EK60110 - Solvent Extraction (GC)										
Calibration Check (EK60110-CCV1)				Prepared	11/01/06 A	nalyzed. 1	1/02/06			
Carbon Ranges C6-C12	204		mg/kg	250		816	80-120			
Carbon Ranges C12-C28	269		**	250		108	80-120			
Total Hydrocarbons	472		"	500		94 4	80-120			
Surrogate 1-Chlorooctane	46.3		"	50 0		92 6	70-130			
Surrogate I-Chlorooctadecane	37 0		"	50 0		740	70-130			
Matrix Spike (EK60110-MS1)	Sour	ce: 6J31010	-09	Prepared	11/01/06 A	nalyzed 1	1/02/06			
Carbon Ranges C6-C12	481	100	mg/kg dry	536	ND	89 7	75-125			
Carbon Ranges C12-C28	452	10 0	н	536	ND	84 3	75-125			
Carbon Ranges C28-C35	ND	100	"	0 00	ND		75-125			
Total Hydrocarbons	933	10 0	**	1070	ND	87 2	75-125			
Surrogate 1-Chlorooctane	510		mg/kg	50 0		102	70-130			
Surrogate 1-Chlorooctadecane	39 1		"	50 0		78 2	70-130			
Matrix Spike Dup (EK60110-MSD1)	Sour	ce: 6J31010	-09	Prepared	11/01/06 A	nalyzed l	1/02/06			
Carbon Ranges C6-C12	478	100	mg/kg dry	536	ND	89 2	75-125	0 626	20	-
Carbon Ranges C12-C28	462	10 0	"	536	ND	86 2	75-125	2 19	20	
Carbon Ranges C28-C35	ND	10 0	11	0 00	ND		75-125		20	
Total Hydrocarbons	940	100	н	1070	ND	87 9	75-125	0 747	20	
Surrogate 1-Chlorooctane	48.5		mg kg	50.0		97 0	70-130		·	
Surrogate 1-Chlorooctadecane	35 ()		"	50 0		70 0	70-130			
Batch EK60303 - EPA 5030C (GC)										
Blank (EK60303-BLK1)				Prepared	11/03/06 A	nalyzed 1	1/06/06			
Benzene	ND	0 0250	mg/kg wet							
Toluene	ND	0 0250	n							
Ethylbenzene	ND	0 0250	n							
Xylene (p/m)	ND	0 0250	"							
Xylene (o)	ND	0.0250	"							
Surrogate a,a,a-Trifluorotoluene	38 4		ug/kg	40.0		96 0	80-120			
Surrogate 4-Bromofluorohenzene	39 2		"	40 0		98 0	80-120			

Project COG/ Jalmat #7 Well Flow Line Leak

Project Number. 2737 Project Manager Ike Tavarez Fax (432) 682-3946

And a	Danult	Reporting	Llauta	Spike	Source		%REC	DDD	RPD	Max
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch EK60303 - EPA 5030C (GC)					_					
LCS (EK60303-BS1)				Prepared	11/03/06	Analyzed	11/06/06			
Benzene	141	0 0250	mg/kg wet	1 25		113	80-120			
Toluene	1 43	0 0250	**	1 25		114	80-120			
Ethylbenzene	1 50	0 0250	Ħ	1 25		120	80-120			
Xylene (p/m)	291	0 0250	u	2 50		116	80-120			
Kylene (o)	1 40	0 0250	"	1 25		112	80-120			
Surrogate a,a,a-Trifluorotoluene	41 3		ug kg	40 0		103	80-120			
urrogate 4-Bromofluorohenzene	46 5		"	40 0		116	80-120			
Calibration Check (EK60303-CCV1)				Prepared	11/03/06	Analyzed	11/07/06			
Benzene	59 8		ug/kg	50 0		120	80-120			
Γoluene	53 5		"	50 0		107	80-120			
Ethylbenzene	55 9		11	50 0		112	80-120			
Xylene (p/m)	102		"	100		102	80-120			
Xylene (o)	50 2		"	50 0		100	80-120			
Surrogate a,a,a-Trifluorotoluene	44 5		"	40.0		111	80-120			
Surrogate 4-Bromofluorobenzene	37 5		,,	40 0		93 8	80-120			
Matrix Spike (EK60303-MS1)	Sou	rce: 6K01013	3-01	Prepared	11/03/06	Analyzed	11/07/06			
Benzene	1 58	0 0250	mg/kg dry	1 33	ND	119	80-120			
Toluene	1 42	0 0250	"	1 33	ND	. 107	80-120			
Ethylbenzene	1 37	0 0250	n	1 33	ND	103	80-120			
Xylene (p/m)	2 79	0 0250	п	2 66	ND	105	80-120			
Xylene (0)	l 27	0 0250	н	1 33	ND	95 5	80-120			
Surrogate a,a,a-Trifluorotoluene	40 6	******	ug-kg	40 0		102	80-120	, , , , , , , , , , , , , , , , , , ,		
Surrogate [,] 4-Bromofluorobenzene	44 0		"	40 0		110	80-120			
Matrix Spike Dup (EK60303-MSD1)	Sou	rce: 6K01013	B-01	Prepared	11/03/06	Analyzed	11/07/06			
Benzene	1 51	0 0250	mg/kg dry	1 33	ND	114	80-120	4 29	20	
Toluene	1 38	0 0250	н	1 33	ND	104	80-120	2 84	20	
Ethylbenzene	1 33	0 0250	н	1 33	ND	100	80-120	2 96	20	
Xylene (p/m)	2 85	0 0250	**	2 66	ND	107	80-120	1.89	20	
Xylene (0)	1 32	0 0250	"	1 33	ND	99 2	80-120	3 80	20	
Surrogate a,a,a-Trifluorotoluene	42 0		ug kg	40.0	··········	105	80-120		···	
Surrogate 4-Bromofluorobenzene	417		"	40 0		104	80-120			

Project COG/ Jalmat #7 Well Flow Line Leak

Project Number 2737
Project Manager, Ike Tavarez

Fax (432) 682-3946

General Chemistry Parameters by EPA / Standard Methods - Quality Control Environmental Lab of Texas

		Reporting		Spike	Source	е	%REC		RPD	
Analyte	Result	Lımit	Units	Level	Resul	t %REC	C Limits	RPD	Limit	Notes
Batch EK60103 - Water Extraction										
Blank (EK60103-BLK1)				Prepared	11/01/06	Analyzed	11/03/06			
Chloride	ND	0 500	mg/kg							
LCS (EK60103-BS1)				Prepared	11/01/06	Analyzed	11/03/06			
Chloride	109	0 500	mg/kg	10 0		109	80-120			
Calibration Check (EK60103-CCV1)				Prepared	11/01/06	Analyzed	11/03/06			
Chloride	110		mg/L	10 0		110	80-120			
Duplicate (EK60103-DUP1)	Sour	rce: 6J31002-	05	Prepared	11/01/06	Analyzed	11/03/06			
Chloride	2290	50 0	mg/kg		2270			0 877	20	
Duplicate (EK60103-DUP2)	Sou	rce: 6J31010-	13	Prepared	11/01/06	Analyzed	11/03/06			
Chloride	458	10 0	mg/kg		455			0 657	20	
Matrix Spike (EK60103-MS1)	Sou	rce: 6J31002-	05	Prepared	11/01/06	Analyzed	11/03/06			
Chloride	3390	50 0	mg/kg	1000	2270	112	80-120			
Matrix Spike (EK60103-MS2)	Sou	rce: 6J31010-	13	Prepared	11/01/06	Analyzed	11/03/06			
Chloride	693	10 0	mg/kg	200	455	119	80-120			
Batch EK60229 - General Preparation (Prep)										
Blank (EK60229-BLK1)				Prepared	10/31/06	Analyzed	11/01/06			
% Solids	100		%							
Duplicate (EK60229-DUP1)	Sou	rce: 6J31009-	01	Prepared	10/31/06	Analyzed	11/01/06			
% Solids	92 0		%		92 2			0 217	20	

Highlander Environmental Corp
Project
1910 N Big Spring St
Project Number
Midland TX, 79705
Project Manager
Project Manager
Project Manager
Refax (432) 682-3946

Notes and Definitions

J Detected but below the Reporting Limit, therefore, result is an estimated concentration (CLP J-Flag) Analyte DETECTED DET ND Analyte NOT DETECTED at or above the reporting limit NR Not Reported dry Sample results reported on a dry weight basis RPD Relative Percent Difference LCS Laboratory Control Spike MS Matrix Spike Dup Duplicate

	Kaland KJulis		
Report Approved By:	700000000000000000000000000000000000000	Date:	_11/7/2006

Raland K. Tuttle, Lab Manager Celey D. Keene, Lab Director, Org. Tech Director Peggy Allen, QA Officer

Jeanne Mc Murrey, Inorg. Tech Director LaTasha Cornish, Chemist Sandra Sanchez, Lab Tech.

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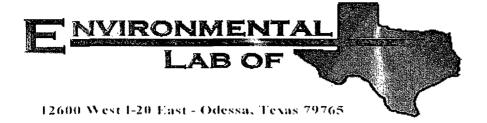
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2 OF: 2	YMS REQUEST Specify Method No.)	3		58/0750 rrold)	808/ 807 ,H ₄ 500. (Ala)	0CC.W3 36ml PCB's 6020/ Post, 603/ Holt, 605, p Alpha Bota PLM (Asbes	92-	*	7	*	7		way.		Date: 19/30/06) S ARPHIL &	EHIO		Authorized: Yes No	
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7 5 C C C C C C C C C C C C C C C C C C	7 7000		Fax (432) 682-3946	PRESERVATIVE METHOD		NOME ICE HNO3 HCF LITLENED ()	>	يح	><	بر	×	>	×		Date: Time:	Date: Time:	Date:	Three:	27:30	
ond Choin of Circleda			Midland, Texas 79705 Fax (4)	SITE MANAGER: I. K. T. T. C. Z.	ine leak	SAMPLE IDENTIFICATION	XGP-#8(0-10')BEB BOHTON 2.0' 11	15.CB	1878 Botton	1 ,	15P-#12(0-1.0) BEB Batton 3.011	X SP-# 13 (1-1.5') 8GB Botton 30:11	X50-# 13(0-1.0')8EB B.Hor 2.5'		COLSTICO RECEIVED BY: (Nensture)	RECEIVED BY: (Signature)	RECEIVED BY: (Signeture)	RECEIVED BY, (Signature)	7	A-Air 3D-Solld EL-Sledge 0-0ther
Doc:1004	Jana Brown	HGHLANDER E			PROJECT NAME COG - Sol	FA MATRIX COMP. BARD	X6P-#	#-95% 5	#-45)/ 5	5 XSP-#	#-98)/ 8	\$ X50-#	# - # S		Date:			Time:	STATE: Tokas	N RECEIVED:
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Environmental Lab of Texas

Variance/ Corrective Action Report- Sample Log-In

Client: Highlander				
Date/ Time: 10/31/00 2:20				
Lab ID #: 6331010			•	
Initials:				
Sample Receipt	Checklist			•
[mt X	V-a I	NI-	4.6 (Client Initials
#1 Temperature of container/ cooler?	Yes	No No	4.0 00	-
#2 Shipping container in good condition?#3 Custody Seals intact on shipping container/ cooler?	Yes Yes	No	Not Present	
#4 Custody Seals intact on sample bottles/ container?	Yes	No	Not Present	
#5 Chain of Custody present?	YE\$	No	CNOCTTESEN	
#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?	¥es	No	Not Applicable	
#10 Sample matrix/ properties agree with Chain of Custody?	Χes	No		
#11 Containers supplied by ELOT?	Yes	(Mg)		
#12 Samples in proper container/ bottle?	Yes .	No.	See Below	
#13 Samples properly preserved?	Yes	No	See Below	
#14 Sample bottles intact?	Yes,	No	1	
#15 Preservations documented on Chain of Custody?	Yes	No		
#16 Containers documented on Chain of Custody?		No		
#17 Sufficient sample amount for indicated test(s)?	Yes	No	See Below	
#18 All samples received within sufficient hold time?		No	See Below	
#19 VOC samples have zero headspace?	Yæ9_	No	Not Applicable	,
Variance Docu	mentation			
Contacted by:		_	Date/ Time:	
Regarding:	•			
Corrective Action Taken:	··.			
l				
Check all that Apply: See attached e-mail/ fax Client understands and wou	lid like to pro	cand with	analysis	
Cooling process had begun				



Analytical Report

Prepared for:

Ike Tavarez
Highlander Environmental Corp.
1910 N. Big Spring St.
Midland, TX 79705

Project: COG/ Jalmat #7 Well Flow Line Leak

Project Number: 2737 Location: Lea County, NM

Lab Order Number: 6K13008

Report Date: 11/16/06

Highlander Environmental Corp 1910 N. Big Spring St

Midland TX, 79705

Project COG/ Jalmat #7 Well Flow Line Leak

Project Number 2737

Project Manager Ike Tavarez .

Fax (432) 682-3946

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SP-#2 (1-1 5') BEB Bottom 14 0'	6K13008-01	Soil	10/30/06 00 00	10-31-2006 14 20
SP-#4 (1-1 5') BEB Bottom 4.0'	6K13008-02	Soil	10/30/06 00 00	10-31-2006 14 20
SP-#5 (1-1.5') BEB Bottom 7 0'	6K13008-03	Soil	10/30/06 00 00	10-31-2006 14 20
SP-#12 (1-1 5') BEB Bottom 3 0'	· 6K13008-04	Soil	10/30/06 00 00	10-31-2006 14 20

Project COG/ Jalmat #7 Well Flow Line Leak

Project Number 2737
Project Manager Ike Tavarez

Fax (432) 682-3946

General Chemistry Parameters by EPA / Standard Methods Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SP-#2 (1-1.5') BEB Bottom	14.0' (6K13008-01) Soil								
Chloride	553	100	mg/kg	20	EK61508	11/15/06	11/15/06	EPA 300 0	
SP-#4 (1-1.5') BEB Bottom	4.0' (6K13008-02) Soil								
Chloride	214	5 00	mg/kg	10	EK61508	11/15/06	11/15/06	EPA 300 0	
SP-#5 (1-1.5') BEB Bottom	7.0' (6K13008-03) Soil								
Chloride	514	100	mg/kg	20	EK61508	11/15/06	11/15/06	EPA 300 0	`
SP-#12 (1-1.5') BEB Bottom	3.0' (6K13008-04) Soil								
Chloride	664	100	mg/kg	20	EK61508	11/15/06	11/15/06	EPA 300 0	-

Highlander Environmental Corp 1910 N. Big Spring St Project COG/ Jalmat #7 Well Flow Line Leak

Fax (432) 682-3946

Project Number 2737
Project Manager Ike Tavarez

Midland TX, 79705

General Chemistry Parameters by EPA / Standard Methods - Quality Control Environmental Lab of Texas

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Lımit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch EK61508 - Water Extraction										
Blank (EK61508-BLK1)				Prepared &	z Analyzed	11/15/06				•
Chloride	ND	0 500	mg/kg							
LCS (EK61508-BS1)		•		Prepared &	z Analyzed	11/15/06				
Chloride	101	0 500	mg/kg	10 0		101	80-120			
Calibration Check (EK61508-CCV1)				Prepared &	Analyzed	11/15/06				
Chloride	10 5		mg/L	10 0		105	80-120			
Duplicate (EK61508-DUP1)	Sour	ce: 6K13008	-01	Prepared &	k Analyzed	11/15/06				,
Chloride	561	10 0	mg/kg		553			1 44	20	
Duplicate (EK61508-DUP2)	Sour	ce: 6K14009	-01	Prepared &	k Analyzed	11/15/06				
Chloride	1910	40 0	mg/kg		1870			2 12	20	
Matrix Spike (EK61508-MS1)	Sour	ce: 6K13008	-01	Prepared &	k Analyzed	11/15/06				
Chloride	769	10 0	mg/kg	200	553	108	80-120	_		
Matrix Spike (EK61508-MS2)	Sour	ce: 6K14009	-01	Prepared &	ኔ Analyzed	11/15/06				
Chloride	2830	40 0	mg/kg	800	1870	120	80-120			

Project COG/ Jalmat #7 Well Flow Line Leak

Fax (432) 682-3946

1910 N Big Spring St Midland TX, 79705

Project Number 2737 Project Manager: Ike Tavarez

Notes and Definitions

DET Analyte DETECTED

ND

Analyte NOT DETECTED at or above the reporting limit

NR

Sample results reported on a dry weight basis dry

RPD Relative Percent Difference

LCS Laboratory Control Spike

MS Matrix Spike

Duplicate Dup

Report Approved By:	Kaland KJuli	B
Report Approved Ry		

Date:

11/16/2006

Raland K. Tuttle, Lab Manager Celey D. Keene, Lab Director, Org. Tech Director Peggy Allen, QA Officer

Jeanne Mc Murrey, Inorg. Tech Director LaTasha Cornish, Chemist Sandra Sanchez, Lab Tech.

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ľ	RELINQUISHE	BY: (Sig	nature)			Date:	<u> </u>		RECE	IVED BY	Y: (Sign	sture)			Dв	te:				1	AMP	LE S	HIPP	/k _o	17) 14: (0	Circl	a)	<u>~</u>		Time				
.	/ Time: RECEIVED BY: (Signature) Date: RECEIVED BY: (Signature)														Tin Da	te:			=		EDE LAND		JVKR	<u> To</u>	t		US PS		AIR OTI	HER:				
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Please Fill out all copies - Laboratory retains yellow copy - Return original copy to Highlander Environmental Corp. - Project Manager retains pink copy - Accounting receives Colds come

Environmental Lab of Texas

Wariance/ Corrective Action Report- Sample Log-In

ient: Hill	Mander		. Stranger, 147-		
ate/ Time:	NO 2:20			Ü,	
16 1D#: -to-	21712 10K12NV				
	300000000000000000000000000000000000000				
itials: 🐍	ik			13	
	Sample Receipt	Checklist			
	Cample Receipt	Officernat		Client	Initials
1 Temperature of conta	iner/ cooler?	Yes	No	4.0 °C	unuais
2 Shipping container in		¥es	No		
	on shipping container/ cooler?	Yes	No	. Not Present	
	on sample bottles/ container?	Yes	No	Not Present	
5 Chain of Custody pre		Yes	No		
	omplete of Chain of Custody?	Yes	No		
	ned when relinquished/ received?	Yes	No		
	ees with sample label(s)?	/ XPS	No	ID written on Cont./ Lid	
9 Container label(s) leg		Yes	No	Not Applicable	
	erties agree with Chain of Custody?	Xes	No		
11 Containers supplied		Yes	(40)		
12 Samples in proper co		⊁es	No	See Below	
13 Samples properly pro		Yes	No	See Below	
14 Sample bottles intac)¿es,	No		
	nented on Chain of Custody?	¥es	No		
	nted on Chain of Custody?	্ৰিছ	No		
	nount for indicated test(s)?	(X)⊋ş	No	See Below	
	i within sufficient hold time?	7es	No	See Below	
19 VOC samples have:		Y,es	No	Not Applicable	
	Variance Docur	mentation			
Contact:	Contacted by:		_	Date/ Time:	
•					
Regarding:					
Corrective Action Taken:					
		· · · · · · · · · · · · · · · · · · ·			
Objects of the Australia					
Check all that Apply:	See attached e-mail/ fax	14 (1), 4 *			
	Client understands and would			-	
	Cooling process had begun	shortly after	sampling	event	

Jeanne McMurrey

From:

"Tim Reed" <treed@hec-enviro.com>

To:

"Jeanne McMurrey" <jeanne@elabtexas.com> Monday, November 13, 2006 9:34 AM

Sent:

Subject:

RE: Report #6J31010 COG/ Jal Mat #7 (complete)

November 13, 2006

Jeanne Mc Murrey Environmental Labs of Texas Lab Order Number 6J31010 COG Jalmat #7 Project Number 2737

Jeanne:

Please analyze the following additional samples for chloride:

SP-#2 (1-1.5')

SP-#4 (1-1.5')

SP-#5 (1-1.5')

SP-#12 (1-1.5')

Thank you,

Tim Reed, P.G. Vice President Highlander Environmental Corp. office - (432) 682-4559 fax - (432) 682-3946 cell - (432) 557-4680

----Original Message----

From: Jeanne McMurrey [mailto:jeanne@elabtexas.com]

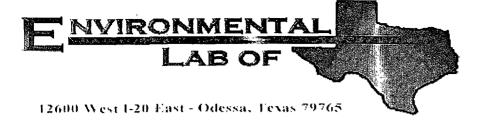
Sent: Tuesday, November 07, 2006 5:25 PM

To: Tim Reed; Ike Tavarez

Subject: Re: Report #6J31010 COG/ Jal Mat #7 (complete)

Jeanne McMurrey Environmental Lab of Texas I, Ltd. 12600 West I-20 East Odessa, Texas 79765 432-563-1800

This message has been scanned for viruses and dangerous content by Basin Broadband, and is believed to be clean.



Analytical Report

Prepared for:

Ike Tavarez
Highlander Environmental Corp.
1910 N. Big Spring St.
Midland, TX 79705

Project: COG/ Jalmat #7 Well Flow Line Leak

Project Number: 2737 Location: Lea County, NM

Lab Order Number: 6J31011

Report Date: 11/08/06

Project COG/ Jalmat #7 Well Flow Line Leak

Fax (432) 682-3946

1910 N. Big Spring St Midland TX, 79705

Project Number: 2737 Project Manager Ike Tavarez

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SP- West Side Wall North	6J31011-01	Soil	10/30/06 00 00	10-31-2006 14 20
SP- West Side Wall South	6J31011-02	Soil	10/30/06 00 00	10-31-2006 14 20
SP- West Side Wall Middle	6J31011-03	Soil	10/30/06 00 00	10-31-2006 14 20
SP- East Side Wall North	6J31011-04	Soil	10/30/06 00 00	10-31-2006 14 20
SP- East Side Wall South	6J31011-05	Soil	10/30/06 00 00	10-31-2006 14 20
SP- East Side Wall Middle	6J31011-06	Soil	10/30/06_00 00	10-31-2006 14 20
SP- North Side Wall	6J31011-07	Soil	10/30/06 00 00	10-31-2006 14 20
SP- South Side Wall	6J31011-08	Soil	10/30/06 00 00	10-31-2006 14 20

Project COG/ Jalmat #7 Well Flow Line Leak

Project Number 2737 .
Project Manager Ike Tavarez

Fax (432) 682-3946

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SP- West Side Wall North (6J31011-01) S	Soil								
Carbon Ranges C6-C12	ND	100	mg/kg dry	l	EK60110	11/01/06	11/02/06	EPA 8015M	
Carbon Ranges C12-C28	ND	100	"	n	**	**	II .	**	
Carbon Ranges C28-C35	ND	100	"	п	11	**	п	**	
Total Hydrocarbons	ND	100	#	II.	"	n	11	a	
Surrogate, 1-Chlorooctane		846%	70-1	130	"	n	"	"	
Surrogate. 1-Chlorooctadecane		75.6 %	70-1	130	"	"	n	tt.	
SP- West Side Wall South (6J31011-02) S	Soil								
Carbon Ranges C6-C12	ND	100	mg/kg dry	1	EK60110	11/01/06	11/02/06	EPA 8015M	
Carbon Ranges C12-C28	ND	100	11	"	"	11	11	н	
Carbon Ranges C28-C35	ND	100	"	**	"	u	11	11	
Total Hydrocarbons	ND	100	"	n	н	"	'n	"	
Surrogate: 1-Chlorooctane		86.6 %	70-	130	,,	"	"	n	
Surrogate: 1-Chlorooctadecane		76.8 %	70-	130	n	"	n	n	
SP- West Side Wall Middle (6J31011-03)	Soil								
Benzene	ND	0 0250	mg/kg dry	25	EK60303	11/06/06	11/06/06	EPA 8021B	
Toluene	ND	0 0250	tt	n	"	"	tr	и	
Ethylbenzene	ND	0 0250	**	п	•	n	tr	II.	
Xylene (p/m)	ND	0 0250	n	п	"	n	H	н	
Xylene (o)	ND	0.0250	н	n	n	n	н	"	
Surrogate: a,a,a-Trifluorotoluene		92.5 %	80-	120	n	"	"	"	
Surrogate: 4-Bromofluorobenzene		89.2 %	80-	120	"	"	"	"	
Carbon Ranges C6-C12	ND	100	mg/kg dry	1	EK60110	11/01/06	11/02/06	EPA 8015M	
Carbon Ranges C12-C28	ND	100	**		n	"	11	**	
Carbon Ranges C28-C35	ND	100	"	"	"	"	11	11	
Total Hydrocarbons	ND	100	и	"	**	"	"	и	
Surrogate: 1-Chlorooctane		82 2 %	70-	130	,,	"	"	n	
Surrogate: 1-Chlorooctadecane		71.8 %	70-	130	"	"	"	"	

Highlander Environmental Corp. 1910 N Big Spring St Project COG/ Jalmat #7 Well Flow Line Leak

Fax (432) 682-3946

1910 N Big Spring StProject Number2737Midland TX, 79705Project ManagerIke Tavarez

		Reporting			*				
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SP- East Side Wall North (6J31011-04) So	il								
Carbon Ranges C6-C12	ND	100	mg/kg dry	1	EK60110	11/01/06	11/02/06	EPA 8015M	
Carbon Ranges C12-C28	ND	100	"	п	"	u	и	n	
Carbon Ranges C28-C35	ND	10 0	*	11	n	II.	н	и	
Total Hydrocarbons	ND	100	**	11	"	19	11	и	
Surrogate: 1-Chlorooctane		73 6 %	70-1	30	"	"	и	"	
Surrogate: 1-Chlorooctadecane		70.4 %	70-1	30	"	n	"	"	
SP- East Side Wall South (6J31011-05) So	il								
Carbon Ranges C6-C12	ND	100	mg/kg dry	1	EK60110	11/01/06	11/02/06	EPA 8015M	
Carbon Ranges C12-C28	ND	100	"	Ħ	"	Ħ	11	n	
Carbon Ranges C28-C35	ND	100	H	m .	н	u	н	п	
Total Hydrocarbons	ND	10 0	н	n	"	n	n	н	
Surrogate. 1-Chlorooctane		818%	70-1	30	"	"	"	n	
Surrogate: 1-Chlorooctadecane		71 2 %	70-1	30	n	"	"	"	
SP- East Side Wall Middle (6J31011-06) S	Soil								
Benzene	ND	0 0250	mg/kg dry	25	EK60303	11/06/06	11/06/06	EPA 8021B	
Toluene	ND	0 0250	**	11	н	**	n n	11	
Ethylbenzene	ND	0 0250	**	**	#	**	n	и	
Xylene (p/m)	ND	0 0250	н	n	n	n	11	**	
Xylene (o)	ND	0 0250	н	11	, n	н	11	н	
Surrogate. a,a,a-Trifluorotoluene		99.2 %	80-1	120	"	"	• "	"	
Surrogate: 4-Bromofluoi obenzene		114 %	- 80-1	20	"	u	"	"	
Carbon Ranges C6-C12	ND	100	mg/kg dry	1	EK60110	11/01/06	11/02/06	EPA 8015M	
Carbon Ranges C12-C28	ND	100	h	11	н	н	н	11	
Carbon Ranges C28-C35	ND	100	и	н	н	11	**	н	
Total Hydrocarbons	ND	100	"	**	tt	**	н	11	
Surrogate: 1-Chlorooctane		75.8 %	70-1	130	"	"	"	"	·
Surrogate: 1-Chlorooctadecane		700%	70-1	130	"	"	"	n,	

Project COG/ Jalmat #7 Well Flow Line Leak

Project Number 2737
Project Manager Ike Tavarez

Fax (432) 682-3946

		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SP- North Side Wall (6J31011-07) Soil									
Benzene	ND	0 0250	mg/kg dry	25	EK60303	11/06/06	11/06/06	EPA 8021B	
Toluene	ND	0 0250	"	11	"	n	n	и	
Ethylbenzene	ND	0 0250	"	11	"	n	n	11	
Xylene (p/m)	ND	0 0250	**	n	li .	11	н	н	
Xylene (o)	ND	0 0250	11	н	11	11	ш	11	
Surrogate: a,a,a-Trifluorotoluene		105 %	80-1	20	te	"	"	н	
Surrogate 4-Bromofluorobenzene		104 %	80-1	120	"	"	n	n	
Carbon Ranges C6-C12	ND	100	mg/kg dry	1	EK60110	11/01/06	11/02/06	EPA 8015M	
Carbon Ranges C12-C28	ND	100	Ħ	"	11	11	"	31	
Carbon Ranges C28-C35	ND	100	и	**	n	n	n	"	
Total Hydrocarbons	ND	100	n	**		"	"	H	
Surrogate: 1-Chlorooctane		77.2 %	70-	130	"	"	"	rt .	
Surrogate: 1-Chlorooctadecane		70.2 %	70-1	130	"	"	"	"	
SP- South Side Wall (6J31011-08) Soil									
Benzene	ND	0 0250	mg/kg dry	25	EK60303	11/06/06	11/06/06	EPA 8021B	
Toluene	ND	0 0250	**	н	и	tt	"	и	
Ethylbenzene	ND	0 0250	"	II	U	И	11	n	
Xylene (p/m)	ND	0 0250	"	н	b	11	11	n	
Xylene (o)	ND	0 0250	n	n	**	11	"	n .	
Surrogate: a,a,a-Trifluorotoluene		100 %	80-	120	"	"	"	"	
Surrogate 4-Bromofluorobenzene		106 %	80-	120	n	"	"	"	
Carbon Ranges C6-C12	ND	100	mg/kg dry	1	EK60110	11/01/06	11/02/06	EPA 8015M	
Carbon Ranges C12-C28	ND	100	н	"	**	"	и	14	
Carbon Ranges C28-C35	ND	100	н	**	**	u	н	"	
Total Hydrocarbons	ND	100	н	n	н	11	11	u	
Surrogate: 1-Chlorooctane		76 8 %	70-	130	"	"	"	"	
Surrogate. 1-Chlorooctadecane		, 716%	70-	130	"	"	"	и	

Highlander Environmental Corp 1910 N Big Spring St

Midland TX, 79705

Project COG/ Jalmat #7 Well Flow Line Leak

Project Number 2737
Project Manager Ike Tavarez

Fax (432) 682-3946

General Chemistry Parameters by EPA / Standard Methods Environmental Lab of Texas

							·	-4	
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SP- West Side Wall North (6J31011-	01) Soil								
Chloride	8.07	5 00	mìg/kg	10	EK60103	11/01/06	11/03/06	EPA 300 0	
% Moisture	5.4	0 1	%	l	EK60229	10/31/06	11/01/06	% calculation	
SP- West Side Wall South (6J31011-	02) Soil			_					
Chloride	143	5 00	mg/kg	10	EK60103	11/01/06	11/03/06	EPA 300 0	
% Moisture	6,2	0 1	%	1	EK60229	10/31/06	11/01/06	% calculation	
SP- West Side Wall Middle (6J31011	1-03) Soil								
Chloride	78.8	5 00	mg/kg	10	EK60103	11/01/06	11/03/06	EPA 300 0	
% Moisture	5.7	0 1	%	1	EK60229	10/31/06	11/01/06	% calculation	
SP- East Side Wall North (6J31011-0	04) Soil								
Chloride	287	100	mg/kg	20	EK60103	11/01/06	11/03/06	EPA 300 0	
% Moisture	3.3	0 1	%	1	EK60229	10/31/06	11/01/06	% calculation	
SP- East Side Wall South (6J31011-0	05) Soil								
Chloride	J [2.36]	5 00	mg/kg	10	EK60103	11/01/06	11/03/06	EPA 300 0	
% Moisture	4.7	0 1	%	1	EK60229	10/31/06	11/01/06	% calculation	
SP- East Side Wall Middle (6J31011-	-06) Soil								
Chloride	22.6	5 00	mg/kg	10	EK60501	11/05/06	11/05/06	EPA 300 0	
% Moisture	1.1	0 1	%	1	EK60229	10/31/06	11/01/06	% calculation	
SP- North Side Wall (6J31011-07) Sc	pil								
Chloride	5.40	5 00	mg/kg	10	EK60501	11/05/06	11/05/06	EPA 300.0	
% Moisture	5.8	0 1	%	ŧ	EK60229	10/31/06	11/01/06	% calculation	
SP- South Side Wall (6J31011-08) So	oil								
Chloride	J [4.00]	5.00	mg/kg	10	EK60501	11/05/06	11/05/06	EPA 300 0	
% Moisture	4.8	0 1	%	1	EK60229	10/31/06	11/01/06	% calculation	

Project COG/ Jalmat #7 Well Flow Line Leak

Fax (432) 682-3946

1910 N Big Spring St Midland TX, 79705 Project Number 2737
Project Manager Ike Tavarez

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch EK60110 - Solvent Extraction (GC)				·		·				
Blank (EK60110-BLK1)				Prepared 1	11/01/06 Ai	nalyzed 11	/02/06			
Carbon Ranges C6-C12	ND	10 0	mg/kg wet							
Carbon Ranges C12-C28	ND	10 0	. "							
Carbon Ranges C28-C35	ND	10 0	и							
Total Hydrocarbons	ND	10 0	n n							
Surrogate 1-Chlorooctane	46 2		mg kg	50 0		92 4	70-130			
Surrogate 1-Chlorooctadecane	42 7		"	50 0		85 4	70-130			
LCS (EK60110-BS1)		•		Prepared	11/01/06 Ai	nalyzed 11	/02/06			
Carbon Ranges C6-C12	486	100	mg/kg wet	500		97.2	75-125			
Carbon Ranges C12-C28	452	10 0	ij	500		90 4	75-125			
Carbon Ranges C28-C35	ND	10 0	n	0 00			75-125			
Total Hydrocarbons	938	10 0	n	1000		93.8	75-125			
Surrogate. 1-Chlorooctane	58 7		mg kg	50 0		117	70-130			
Surrogate 1-Chlorooctadecane	44.1		"	50 0		88 2	70-130			
Calibration Check (EK60110-CCV1)				Prepared	11/01/06 A	nalyzed 11	1/02/06			
Carbon Ranges C6-C12	204		mg/kg	250		816	80-120			
Carbon Ranges C12-C28	269		"	250 ,		108	80-120			
Total Hydrocarbons	472		"	500		94 4	80-120			
Surrogate 1-Chlorooctane	46 3		"	50 0		92 6	70-130			
Surrogate 1-Chlorooctadecane	37.0		"	50 0		740	70-130			
Matrix Spike (EK60110-MS1)	Sou	ırce: 6J31010	-09	Prepared	11/01/06 A	nalyzed 1	1/02/06			
Carbon Ranges C6-C12	481	10 0	mg/kg dry	536	ND	89 7	75-125			
Carbon Ranges C12-C28	452	10 0	n	536	ND	84 3	75-125			
Carbon Ranges C28-C35	ND	10 0	**	0 00	ND		75-125			
Total Hydrocarbons	933	10 0	Ħ	1070	ND	87.2	75-125			
Surrogate. 1-('hlorooctane	510		mg kg	50 0		102	70-130			
Surrogate 1-Chlorooctadecane	39 I		"	50 0		78 2	70-130			

Highlander Environmental Corp 1910 N Big Spring St

Midland TX, 79705

Project COG/ Jalmat #7 Well Flow Line Leak

Project Number 2737

Project Number 2737
Project Manager | Ike Tavarez

Fax (432) 682-3946

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
	Nosuit	- Daint	Oilita	Lovel		701000		- KID	- Dillin	110165
Batch EK60110 - Solvent Extraction (GC)									- 14	
Matrix Spike Dup (EK60110-MSD1)	Sou	rce: 6J31010-	.09	Prepared	11/01/06 A	nalyzed 11	/02/06			
Carbon Ranges C6-C12	478	10 0	mg/kg dry	536	ND	89 2	75-125	0 626	20	
Carbon Ranges C12-C28	462	10 0	n	536	ND	86 2	75-125	2 19	20	
Carbon Ranges C28-C35	ND	10 0	"	0 00	ND		75-125		20	
Total Hydrocarbons	940	10 0	н	1070	ND	87 9	75-125	0 747	20	
Surrogate. 1-('hlorooctane	48 5	-	mg/kg	50 0		97 0	70-130			
Surrogate 1-Chlorooctadecane	35 0		"	50 0		70 0	70-130			
Batch EK60303 - EPA 5030C (GC)										
Blank (EK60303-BLK1)				Prepared	11/03/06 A	nalyzed 11	/06/06			
Benzene	ND	0 0250	mg/kg wet							
Toluene	ND	0 0250	н							
Ethylbenzene	ND	0 0250	**							
Xylene (p/m)	ND	0 0250	"							
Xylene (o)	ND	0 0250	**							
Surrogate a,a,a-Trifluorotoluene	38 4		ug kg	40 0		960	80-120			
Surrogate 4-Bromofluorohenzene	39 2		"	40 0		98 0	80-120			
LCS (EK60303-BS1)				Prepared	11/03/06 A	nalyzed 11	/06/06			
Benzene	141	0 0250	mg/kg wet	l 25		113	80-120			
Toluene	1 43	0 0250	47	1 25		114	80-120			
Ethylbenzene	1 50	0 0250	"	1 25		120	80-120			
Xylene (p/m)	291	0 0250	11	2 50		116	80-120			
Xylene (0)	l 40	0 0250	"	1 25		112	80-120			
Surrogate. a,a,a-Trifluorotoluene	41 3	-	ug kg	40 0		103	80-120			
Surrogate 4-Bromofluorobenzene	46 5		"	40.0		116	80-120			

Highlander Environmental Corp 1910 N Big Spring St

Midland TX, 79705

Project COG/ Jalmat #7 Well Flow Line Leak

Project Number 2737
Project Manager Ike Tavarez

Fax (432) 682-3946

Andre	Danile	Reporting	Llasta	Spike	Source		%REC	מחמ	RPD	NI - 4
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch EK60303 - EPA 5030C (GC)										
Calibration Check (EK60303-CCV1)				Prepared	11/03/06	Analyzed	11/07/06			
Benzene	59 8		ug/kg	50 0		120	80-120			
Toluene	53 5		*	50 0		107	80-120			
Ethylbenzene	55 9		n	50 0		112	80-120			
Xylene (p/m)	102		u	100		102	80-120			
Xylene (o)	50 2		n	50 0		100	80-120			
Surrogate a,a,a-Trifluorotoluene	44.5		"	40 0		111	80-120			
Surrogate 4-Bromofluorobenzene	37 5		"	40 0		93 8	80-120			
Matrix Spike (EK60303-MS1)	Sou	rce: 6K01013	-01	Prepared	11/03/06	Analyzed	11/07/06			
Benzene	1 58	0 0250	mg/kg dry	1 33	ND	119	80-120			
Toluene	1 42	0 0250	n	1 33	ND	107	80-120			
Ethylbenzene	1 37	0 0250	**	1 33	ND	103	80-120			
Xylene (p/m)	2 79	0 0250	"	2 66	ND	105	80-120			
Xylene (o)	l 27	0 0250	"	1 33	ND	95 5	80-120			
Surrogate a,a,a-Trifluorotoluene	40 6		ug kg	40.0		102	80-120			
Surrogate 4-Bromofluorobenzene	440		"	40 0		110	80-120			
Matrix Spike Dup (EK60303-MSD1)	Sou	rce: 6K01013	-01	Prepared	11/03/06	Analyzed	11/07/06			
Benzene	1 51	0 0250	mg/kg dry	1 33	ND	114	80-120	4 29	20	
Toluene	1 38	0 0250	**	1 33	ND	104	80-120	2 84	20	
Ethylbenzene	1 33	0 0250	**	1 33	ND	100	80-120	2 96	20	
Xylene (p/m)	2 85	0 0250	"	2 66	ND	107	80-120	1 89	20	
Xylene (0)	1 32	0 0250	**	1 33	ND	99 2	80-120	3 80	20	
Surrogate: a,a,a-Trifluorotoluene	42 0		ug·kg	40 0		105	80-120			
Surrogate 4-Bromofluorohenzene	417		"	40.0		104	80-120			

Project COG/ Jalmat #7 Well Flow Line Leak

Fax (432) 682-3946

1910 N Big Spring St Midland TX, 79705 Project Number 2737
Project Manager Ike Tavarez

General Chemistry Parameters by EPA / Standard Methods - Quality Control
Environmental Lab of Texas

		Reporting		Spike	Source	:	%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch EK60103 - Water Extraction	t									
Blank (EK60103-BLK1)				Prepared	11/01/06	Analyzed	11/03/06			
Chloride	ND	0 500	mg/kg							
LCS (EK60103-BS1)				Prepared.	11/01/06	Analyzed	11/03/06			
Chloride	10 9	0 500	mg/kg	10 0		109	80-120			
Calibration Check (EK60103-CCV1)				Prepared	11/01/06	Analyzed	11/03/06			
Chloride	110		mg/L	10 0		110	80-120			
Duplicate (EK60103-DUP1)	Soui	ce: 6J31002-	05	Prepared	11/01/06	Analyzed	11/03/06			
Chloride	2290	50 0	mg/kg		2270			0 877	20	
Duplicate (EK60103-DUP2)	Soui	ce: 6J31010-	13	Prepared	11/01/06	Analyzed	11/03/06			
Chloride	458	10 0	mg/kg		455			0 657	20	
Matrix Spike (EK60103-MS1)	Sour	rce: 6J31002-	05	Prepared	11/01/06	Analyzed	11/03/06			
Chloride	3390	50 0	mg/kg	1000	2270	112	80-120			
Matrix Spike (EK60103-MS2)	Sou	rce: 6J31010-	13	Prepared.	11/01/06	Analyzed	11/03/06			
Chloride	693	10 0	mg/kg	200	455	119	80-120			
Batch EK60229 - General Preparation (Prep)										
Blank (EK60229-BLK1)			-	Prepared	10/31/06	Analyzed	11/01/06			
% Solids	100		%							
Duplicate (EK60229-DUP1)	Sou	rce: 6J31009-	01	Prepared	10/31/06	Analyzed	11/01/06			
% Solids	92 0		%		92 2			0 217	20	

Project COG/ Jalmat #7 Well Flow Line Leak

Fax (432) 682-3946

1910 N Big Spring St Midland TX, 79705 Project Number 2737
Project Manager Ike Tavarez

General Chemistry Parameters by EPA / Standard Methods - Quality Control Environmental Lab of Texas

		Reporting		Spike	Source		%REC	-	RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch EK60501 - Water Extraction										
Blank (EK60501-BLK1)				Prepared 8	Analyzed	11/05/06				
Chloride	ND	0 500	mg/kg					.,		
LCS (EK60501-BS1)				Prepared &	k Analyzed	11/05/06				
Chloride	10 2	0 500	mg/kg	10 0		102	80-120			
Calibration Check (EK60501-CCV1)				Prepared &	k Analyzed	11/05/06				
Chloride	[1]		mg/L	10 0		111	80-120			
Duplicate (EK60501-DUP1)	Sou	rce: 6J31011-	06	Prepared &	k Analyzed	11/05/06				
Chloride	23 3	5 00	mg/kg		22 6			3 05	20	
Duplicate (EK60501-DUP2)	Sou	rce: 6K01010	-04	Prepared &	; Ł Analyzed	11/05/06				
Chloride	1700	500	mg/kg		1800			5 71	20	
Matrix Spike (EK60501-MS1)	Sou	rce: 6J31011-	06	Prepared &	k Analyzed	11/05/06				
Chloride	122	5 00	mg/kg	100	22 6	99 4	80-120			

Highlander Environmental Corp.

Project

OG/ Jalmat #7 Well Flow Line Leak

Fax (432) 682-3946

Project Number

Midland TX, 79705

Project Manager

Re Tavarez

Notes and Definitions

J Detected but below the Reporting Limit, therefore, result is an estimated concentration (CLP J-Flag) Analyte DETECTED DET ND Analyte NOT DETECTED at or above the reporting limit NR Not Reported dry Sample results reported on a dry weight basis RPD Relative Percent Difference LCS Laboratory Control Spike MS Matrix Spike Duplicate Dup

	Kaland KJulis		
Report Approved By:	700000000000000000000000000000000000000	Date:	11/8/2006

Raland K. Tuttle, Lab Manager Celey D. Keene, Lab Director, Org. Tech Director Peggy Allen, QA Officer

Jeanne Mc Murrey, Inorg. Tech Director LaTasha Cornish, Chemist Sandra Sanchez, Lab Tech.

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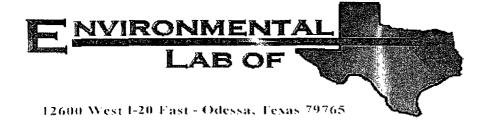
If you have received this material in error, please notify us immediately at 432-563-1800.

ANALYSIS REQUEST (Climbo or Specify Method No.)	The state of the s	58 \$7 40 (2570/65 280/62 29	208) 1.0 28 A2	beat 808\ LCH 8000 LCH 8000 LCH 8000 LCH 8000 LCH 8000 LCH 80000 LCH 80000 LCH 80000	X .	**	× × ×	<i>y</i> -	<i>y</i> .	X	\$ \$ X	\$ X X		SAMPLED BY: (Print & Sign) Date: (0/30/05)	SAMPLE SHIPPEN BY. (Circle)	(HAND DELLYMENED) UPS OTHER:	HIGHLANDER CONTACT PERSON: FIGH CLASSON	Authorized: Yo Tallife is 160	puells (Rost 4 BTEX) or the	ofect Manager retains pink copy - Accounting receives Gald capy.
and Chain of Custod	4NDER ENVIRONMENTAL 1910 N. Big Spring St. Midland, Texas 79705	(432) 682-4559 Fax (432) 682-3946	SITE MANAGER:	PROJECT NAME: ((D(5-)a) Mat # 7 well flow line, leak 8 8	Lea Courty, NM Lea Courty, NM HOLL HOLL HOLL HOLL HOLL HOLL HOLL HOL	X	~		XSP - Enct Side	S XSP - ELL Side	5 XSP - 12, t Side	5 X +10 N - 95 X S	5 XSP - 82th 5.40		REINGUISHED BY: (Signature) Date: 10151100 RECEIVED BY: (Signature) Date:	RECEIVED BY: (Signeture)	RECEIVED BY: (Signature)	RECEIVING LABORATORY: 5-LT Time: RECEIVED BY: (Signature)	PHONE: TEXAS. AIP. DATE: 16 3 1/10 TABLE: Z	WATRIK: W-Water A-AL ID-SAULA (S-SAU) SL-SILASE D-OLDSK	аз уейон сор

(R) Add BTEX "K".

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

client: Himlander				
Date/ Time: 10/3/100 2:20				
ab ID #. \(\begin{array}{cccccccccccccccccccccccccccccccccccc				
nitials:				
Sample Receipt	Chacklict			
Sample Receipt	CHECKHOL			Client Initials
Temperature of container/ cooler?	Yes	No	4.0 °C	
2 Shipping container in good condition?	Yes	No	1,0	
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	Troche -	
6 Sample instructions complete of Chain of Custody?	Yes	No		
Chain of Custody signed when relinquished/ received?	Yes	No		
*8 Chain of Custody agrees with sample label(s)?		No	ID written on Cont./ Lid	
9 Container label(s) legible and intact?	Yes Yes	No	Not Applicable	
10 Sample matrix/ properties agree with Chain of Custody?	Xes	No	тостроношью	
11 Containers supplied by ELOT?	Yes	(442)		
12 Samples in proper container/ bottle?	Yes	No	See Below	
13 Samples properly preserved?	tes	No	See Below	
\$14 Sample bottles intact?	Yes	No		
†15 Preservations documented on Chain of Custody?		No		
#16 Containers documented on Chain of Custody?) Jes	No		
#17 Sufficient sample amount for indicated test(s)?	Yes	No	See Below	
#18 All samples received within sufficient hold time?	/es	No	See Below	-
#19 VOC samples have zero headspace?	Yes	No	Not Applicable	1
			,	1.
Variance Docur	nentation			
Contact: Contacted by:			Date/ Time:	
		•		
Regarding:				
Corrective Action Taken:				
	-		***************************************	
Check all that Apply: See attached e-mail/ fax				
· · · · · · · · · · · · · · · · · · ·	d lika ta ara	oood with	analusis.	
Client understands and woul				
Cooling process had begun	ыюну алег	sampling	event	



Analytical Report

Prepared for:

Ike Tavarez
Highlander Environmental Corp.
1910 N. Big Spring St.
Midland, TX 79705

Project: COG/ Jalmat #7 Well Flow Line Leak

Project Number: 2737 Location: Lea County, NM

Lab Order Number: 7C01008

Report Date: 03/05/07

Highlander Environmental Corp 1910 N Big Spring St

Midland TX, 79705

Project COG/ Jalmat #7 Well Flow Line Leak

Fax (432) 682-3946

Project Number 2737
Project Manager Ike Tavarez

ANALYTICAL REPORT FOR SAMPLES

Sample ID	, Laboratory ID	Matrix	Date Sampled	Date Received
SP#2 2'-2 5' BEB	7C01008-01	Soil	02/28/07 00 00	03-01-2007 13 20
SP#5 2'-2 5' BEB	7C01008-03	Soil	02/28/07 00 00	03-01-2007 13 20
SP#12 2'-2 5' BEB	7C01008-06	Soil	02/28/07 00 00	03-01-2007 13 20

Highlander Environmental Corp 1910 N Big Spring St

Midland TX, 79705

Project COG/ Jalmat #7 Well Flow Line Leak

Project Number 2737

Fax (432) 682-3946

Project Manager: Ike Tavarez

General Chemistry Parameters by EPA / Standard Methods **Environmental Lab of Texas**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SP#2 2'-2.5' BEB (7C01008-01) Soil									
Chloride	189	100	mg/kg	20	EC70501	03/02/07	03/03/07	EPA 300 0	
SP#5 2'-2.5' BEB (7C01008-03) Soil									
Chloride	243	5 00	mg/kg	10	EC70501	03/02/07	03/03/07	EPA 300 0	
SP#12 2'-2.5' BEB (7C01008-06) Soil									
Chloride	228	5 00	mg/kg	10	EC70501	03/02/07	03/03/07	EPA 300 0	

Project COG/ Jalmat #7 Well Flow Line Leak

Fax (432) 682-3946

1910 N Big Spring St Midland TX, 79705

Project Number 2737 Project Manager Ike Tavarez

General Chemistry Parameters by EPA / Standard Methods - Quality Control **Environmental Lab of Texas**

		Reporting		Spike	Source		%REC		RPD	-
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch EC70501 - General Preparation (WetChem)				,,				<u></u>	
Blank (EC70501-BLK1)				Prepared	03/02/07	Analyzed	03/03/07			
Chloride	ND	0 500	mg/kg							
LCS (EC70501-BS1)				Prepared	03/02/07	Analyzed	03/03/07			
Chloride	10 8	0 500	mg/kg	10 0		108	80-120			
Calibration Check (EC70501-CCV1)				Prepared	03/02/07	Analyzed	03/03/07			
Chloride	9 59		mg/kg	10 0		95 9	80-120			
Duplicate (EC70501-DUP1)	Sour	rce: 7B28001-	-01	Prepared	03/02/07	Analyzed	03/03/07			
Chloride	304	0 01	mg/kg		304			0 00	20	
Duplicate (EC70501-DUP2)	Sour	rce: 7C01016	-01	Prepared	03/02/07	Analyzed.	03/03/07			
Chloride	154	10 0	mg/kg		157			1 93	20	
Matrix Spike (EC70501-MS1)	Sour	rce: 7B28001	-01	Prepared	03/02/07	Analyzed	03/03/07			
Chloride	538	10 0	mg/kg	200	304	117	80-120			
Matrix Spike (EC70501-MS2)	Sour	rce: 7C01016	-01	Prepared	03/02/07	Analyzed	03/03/07			
Chloride	661	100	mg/kg	200	157	252	80-120			N

Highlander Environmental Corp
Project COG/ Jalmat #7 Well Flow Line Leak
Fax: (432) 682-3946

1910 N Big Spring St
Project Number 2737

Midland TX, 79705
Project Manager. Ike Tavarez

Notes and Definitions

Mi	The MS and/or MSD were above the acceptance limits due to sample matrix interference	See Blank Spike (LCS)
DET	Analyte DETECTED .	
ИĎ	Analyte NOT DETECTED at or above the reporting lumit	
NR	Not Reported	
dry	Sample results reported on a dry weight basis	
RPD	Relative Percent Difference	
LCS	Laboratory Control Spike	
MS	Matrix Spike	

Report Approved By:

3/5/2007

Raland K. Tuttle, Lab Manager Celey D. Keene, Lab Director, Org. Tech Director Peggy Allen, QA Officer

Jeanne Mc Murrey, Inorg. Tech Director La Tasha Cornish, Chemist Sandra Sanchez, Lab Tech.

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If you have received this material in error, please notify us immediately at 432-563-1800.

Dup

Duplicate

PAGE: OF: AMALYSIS REQUEST	(Circle or Specify Method No.)	ទន		-20 -20	BU CA BU CA DIS MOD	200/ 200 L. 200 200 A. 200 200/ 200 A. 200 200 A. 200 A. 200 200 A	best 8080/ GCR2 8080/ GCR2 A01 GCR2 A01 LCTb 25507 LCTb A0501	×		X			×				SAMPLED BY. (Print & Sign) Hallion Date: 1110/	BY: (Circle) BUS A		R CONTACT PERSON:	The ladd ez Authorized.	- Project Renser retains pink copy - Accounting receives Gold copy.
Analysis Request and Chain of Custody Record	ENGLETE BOOKER BURETARY		Midland, Texas 79705	(432) 682-4559 Fax (432) 682-5946	CLENT NAME: COG SITE MANAGER: INC TGUGGZ & METHOD		IAB ID. DATE THE HIS SAMPLE DENTIFICATION OF PICE OF POLY OF PICE OF P	2/28/67	S X SP #2	5	SH VS X S	75 1 NSP #5 4'-4.5' BEB 11 X	NO S X SP #12 2' -2.5' BEB 11 X	ON S X SP 412 3'-3.5' BEB 11 X	TOY V S NSO #12 4'-4.5' BEB 11 X		RELEAGUESTER ST. (Signature) Date: 3//6/ RECEIVED BY. (Signature) Date:	RECEIVED BY: (Signature)	Date:	ATORY: ELT MACEIVED BY: (Signature)	CONTACT: PHONE: The DATE: 1320	N FHEN RECEIVED: MATRIX: F-Feter A-Air SD-Solid REMARKS: N/lobel

Environmental Lab of Texas

Variance/ Corrective Action Report- Sample Log-In

Check all that Apply: See attached e-mail/ fax Client understands and would Cooling process had begun s				
Corrective Action Taken:		•••,•		
Regarding:				
ontact: Contacted by:			Date/ Time:	**************************************
Variance Docum	nentation		Date (Tree or	
20 VOC samples have zero headspace?	Yes	No	Not Applicable	
19 Subcontract of sample(s)?	Yes	No	Not Application	
18 All samples received within sufficient hold time?	Yes	No	See Below	
17 Sufficient sample amount for indicated test(s)?	Yes	<u>No</u>	See Below	
6 Containers documented on Chain of Custody?	Yes	<u>No</u>		
5 Preservations documented on Chain of Custody?	Yes	No		
4 Sample bottles intact?	Yes,	No		
3 Samples properly preserved?	tes	No	See Below	
2 Samples in proper container/ bottle?	¥es	No	See Below	
1 Containers supplied by ELOT?	↓ ¥@s	<u>No</u>		
O Sample matrix/ properties agree with Chain of Custody?	Yes	No		
Container label(s) legible and intact?	Yes	No	Not Applicable	
Chain of Custody agrees with sample label(s)?	¥€\$	<u>No</u>	ID written on Cont./ Lid	
Chain of Custody signed when relinquished/ received?	Yes	<u>No</u>		
Sample instructions complete of Chain of Custody?	Yes,	No		
Chain of Custody present?	Xes,	No		
Custody Seals intact on sample bottles/ container?	Yes	No	Not Present	
Custody Seals intact on shipping container/ cooler?	Yes	No	Not Present	
Shipping container in good condition?	Kes	No		
Temperature of container/ cooler?	Yes	No	4.0 °C	
Sample Receipt (N.L.		lient Initials
itials.				
bID#: 10008				
te/ Time: 2/1/07 3:2-0				
ent: Highlander				
1 Losalla an Alas				

Analytical Report 287996

for

Highlander Environmental Corp.

Project Manager: Ike Tavarez

COG / Jalmat # 7 Well Flowline Leak 2737

18-AUG-07



12600 West I-20 East Odessa, Texas 79765

A Xenco Laboratories Company

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

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



18-AUG-07

Project Manager: **Ike Tavarez Highlander Environmental Corp.**1910 N. Big Spring Street
Midland, TX 79705

Reference: XENCO Report No: 287996

COG / Jalmat # 7 Well Flowline Leak Project Address: Lea County, NM

Ike Tavarez:

Respectful

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 287996. 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. 287996 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.

Brent Barron

Odessa Laboratory Director

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Project Location: Lea County, NM

Certificate of Analysis Summary 287996

Highlander Environmental Corp., Midland, TX

Project Name: COG / Jalmat # 7 Well Flowline Leak

Project Id: 2737 Project Name: COG / Jalmat #
Contact: Ike Tavarez

Date Received in Lab: Thu Aug-16-07 09 40 am

Report Date: 18-AUG-07

					Project Manager:	Brent Barron, II	
	Lab Id:	287996-001	287996-003	287996-005			
Annih Manna and a I	Field Id:	SP-6 (2'-2 5') BEB (3 0')	SP-7 (2'-2 5') BEB (2 5')	SP-10 (2'-2 5') BEB (1 0')			
Analysis Requested	Depth:						
	Matrix:	SOIL	SOIL	SOIL			
	Sampled:	Aug-14-07 00:00	Aug-14-07 00 00	Aug-14-07 00:00			
Total Chloride by EPA 325.3	Extracted:						
Total Chorac by El A 525.5	Analyzed:	Aug-17-07 16:30	Aug-17-07 16:30	Aug-17-07 16:30			
_	Units/RL:	mg/kg RL	mg/kg RL	mg/kg RL			
Chloride		53.2 5.00	85.1 5.00	85.1 5 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 involced for this work order unless otherwise agreed to in writing.

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

Brent Barron
Odessa Laboratory Director

TENCO 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.

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Phone Fax (281) 589-0695 11381 Meadowglen Lane Suite L Houston, Tx 77082-2647 (281) 589-0692 (214) 902 0300 (214) 351-9139 9701 Harry Hines Blvd, Dallas, TX 75220 5332 Blackberry Drive, Suite 104, San Antonio, TX 78238 (210) 509-3334 (201) 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



Blank Spike Recovery



Project Name: COG / Jalmat # 7 Well Flowline Leak

Work Order #: 287996

Project ID:

2737

Lab Batch #: 702529

Sample: 702529-1-BKS

Matrix: Solid

Date Analyzed: 08/17/2007

Date Prepared: 08/17/2007

Analyst: IRO

Reporting Units: mg/kg	Batch #:	BLANK /I	BLANK SPI	KE REC	COVERY	STUDY
Total Chloride by EPA 325.3	Blank Result [A]	Spike Added [B]	Blank Spike Result	Blank Spike % R	Control Limits %R	Flags
Analytes			[C]	[D]		
Chloride	ND	100	90.3	90	75-125	

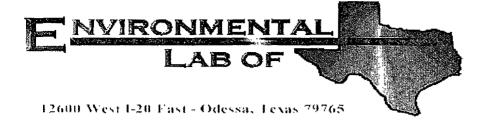
Blank Spike Recovery [D] = 100*[C]/[B]All results are based on MDL and validated for QC purposes.

Ana	alysi	is R	eq	uε	est	an	d (ha	in	01	f (Cus	too	ly	F	leα	20:	rd				_			1171	PAG		EQU			OF;			
				_																			(Ci					r He		No	.j			
	HIG.			1	EK 910 Midla	N.	Big	Sp	rin	g S	t.	TΑ	L Fax					946			20000		Cr Pb Hg Sa	Pd Rg Se										
CT IENT N				<i>a v</i>		5.	TE M	INAGE	R: TV.	- Ti		w:		XXX		PR		RVAT HOD	VE.	1	BOIS MOD		E C	3			128/0	70/02						
PROJECT			P	ROJE	CT NAM	E:	na +	# 7	ייע	e/I .	Her) Le 2	La	CONTAIN	8	T	T	T		103			3	3	Seem Votation		240/828	76. BG		7. 733,0	(F E)	3		
LAB I.D NUMBER	DATE	TIME	KATRIX	COLUP		Len 78	SAMPL	rty EDI	CNTTF:	MICATIO	N.			NUMBER OF	PILTEREED (Y/N)	HCL	HNOS	NONE		BTEX 8020/802	TPH 418.1	PAH 6870	RCRI Metala	TCLP Metals	TCLP Somi Yolati	RCI	GC.MS Vol 8240/8280/824	CC.MS Semi. Vo. PCB's 8080/808	Pre-t. 808/808	Genne Spe	Alpha Beta	PLW (Asbestos)		
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Environmental Lab of Texas

Variance/ Corrective Action Report- Sample Log-In

Client Highlanicler				
Pate/ Time 8 16 07 9 46				
ab ID# 787996				
nitials 43 L				
Sample Receipt	Checklist			
A. T	(Yes)	Na	7 C ° C	nitrals
1 Temperature of container/ cooler? 2 Shipping container in good condition?	des	No No		\dashv
	Yes	No	-Not Present	
3 Custody Seals intact on shipping container/ cooler? 4 Custody Seals intact on sample bottles/ container?	Yes	No	Not Present	
5 Chain of Custody present?	7/es	No	MOLFIESER	
6 Sample instructions complete of Chain of Custody?	Yes	No		\dashv
7 Chain of Custody signed when relinquished/ received?	Yes	No		
8 Chain of Custody agrees with sample label(s)?	Fes	No	ID written on Cont / Lid	$\overline{}$
9 Container label(s) legible and intact?	Xes)	No	Not Applicable	
10 Sample matrix/ properties agree with Chain of Custody?	Yes	No	140t Applicable	
11 Containers supplied by ELOT?	Yes	(ald)		
12 Samples in proper container/ bottle?	YES	No	See Below	
13 Samples properly preserved?	Yes	No	See Below	
14 Sample bottles intact?	Yes	No	See Balow	-
15 Preservations documented on Chain of Custody?	Yes	No		\dashv
16 Containers documented on Chain of Custody?	Yes)	No		\dashv
17 Sufficient sample amount for indicated test(s)?	Yes)	No	See Below	
*18 All samples received within sufficient hold time?	(Yes	No	See Below	
f19 Subcontract of sample(s)?	Yes	No	Mot Applicable	
20 VOC samples have zero headspace?	Yes	No	Not Applicable	
Variance Docur	mentation			
Contact Contacted by		-	Date/ Time.	
Regarding [.]		····		
Corrective Action Taken				
Check all that Apply. See attached e-mail/ fax Client understands and woul Cooling process had begun				
Cooling process had begun	snortly after	sampling	event	



Analytical Report

Prepared for:

Ike Tavarez
Highlander Environmental Corp.
1910 N. Big Spring St.
Midland, TX 79705

Project: COG/ Jalmat Yates Unit Well #7
Project Number: None Given
Location: None Given

Lab Order Number: 6J30001

Report Date: 11/02/06

1910 N Big Spring St Midland TX, 79705 Project COG/ Jalmat Yates Unit Well #7

Project Number None Given

Project Manager Ike Tavarez

Fax (432) 682-3946

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SS #4	6J30001-01	Soil	10/26/06 00:00	10-30-2006 09 00
SS #5	6J30001-02	Soil	10/26/06 00 00	10-30-2006 09 00
SS #7	6J30001-03	Soil	10/26/06 00 00	10-30-2006 09 00
SS #12	6J30001-04	Soil	10/26/06 00 00	10-30-2006 09 00

Highlander Environmental Corp 1910 N Big Spring St Midland TX, 79705 Project COG/ Jalmat Yates Unit Well #7

Project Number None Given
Project Manager Ike Tavarez

Fax (432) 682-3946

Organics by GC Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SS #4 (6J30001-01) Soil									
Carbon Ranges C6-C12	35.5	100	mg/kg dry	1	EJ63105	10/30/06	10/31/06	EPA 8015M	
Carbon Ranges C12-C28	270	10 0	"	11	**	n	**	n	
Carbon Ranges C28-C35	25.9	100	n	"	**	н	n	11	
Total Hydrocarbons	331	100	n		"	Ħ	n	н	
Surrogate: I-Chlorooctane		798%	70-1.	30	"	"	"	"	
Surrogate, 1-Chlorooctadecane		76 8 %	70-13	30	"	ıı	**	#	
SS #5 (6J30001-02) Soil									
Carbon Ranges C6-C12	268	100	mg/kg dry	l	EJ63105	10/30/06	10/31/06	EPA 8015M	
Carbon Ranges C12-C28	2920	100	"	n	"	н	"	11	
Carbon Ranges C28-C35	142	100	n	n	,,	11	"	**	
Total Hydrocarbons	3330	10 0		"		11	u	**	
Surrogate: 1-Chlorooctane		93 0 %	70-1.	30	"	"	"	"	
Surrogate 1-Chlorooctadecane		87.8 %	70-1.	30	" ,	H	. "	n	
SS #7 (6J30001-03) Soit									
Carbon Ranges C6-C12	15.8	100	mg/kg dry	ı	EJ63105	10/30/06	10/31/06	EPA 8015M	
Carbon Ranges C12-C28	928	100	**	"	"		"	n	
Carbon Ranges C28-C35	74.5	100	п		"	"	11	"	
Total Hydrocarbons	1020	100	п	H	п	n	н	"	
Surrogate 1-Chlorooctane		80.6 %	70-1.	30	"	"	"	n	
Surrogate: I-Chlorooctadecane		93.8 %	70-1.	30	"	"	n	п	
SS #12 (6J30001-04) Soil									
Carbon Ranges C6-C12	ND	100	mg/kg dry	1	EJ63105	10/30/06	10/31/06	EPA 8015M	
Carbon Ranges C12-C28	44.3	100	"	n	**	•	n.	п	
Carbon Ranges C28-C35	ND	100	**	n	ti	11	н	n	
Total Hydrocarbons	44.3	10 0	"	11	"	н	н	Ħ	
Surrogate: 1-Chlorooctane		77 2 %	70-1	30	n	"	,,	"	
Surrogate: 1-Chlorooctadecane		70.2 %	70-1	30	"	"	"	"	

Highlander Environmental Corp 1910 N Big Spring St Midland TX, 79705 Project COG/ Jalmat Yates Unit Well #7

Project Number None Given
Project Manager Ike Tavarez

Fax (432) 682-3946

General Chemistry Parameters by EPA / Standard Methods Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SS #4 (6J30001-01) Soil									
% Moisture	5.8	0 1	%	1	EJ63101	10/30/06	10/31/06	% calculation	
SS #5 (6J30001-02) Soil									
% Moisture	4.7	0 1	%	1	EJ63101	10/30/06	10/31/06	% calculation	
SS #7 (6J30001-03) Soil									
% Moisture	3.0	0 1	%	1	EJ63101	10/30/06	10/31/06	% calculation	
SS #12 (6J30001-04) Soil									
% Moisture	. 5.6	0 1	%	l	EJ63101	10/30/06	10/31/06	% calculation	

1910 N Big Spring St Midland TX, 79705 Project COG/ Jalmat Yates Unit Well #7

Project Number None Given
Project Manager Ike Tavarez

Fax (432) 682-3946

Organics by GC - Quality Control Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Lunits	RPD	RPD Limit	Notes
Batch EJ63105 - Solvent Extraction (GC)	· · · · · · · · · · · · · · · · · · ·	 								
Blank (EJ63105-BLK1)				Prepared	10/30/06 A	nalyzed 10	0/31/06			
Carbon Ranges C6-C12	ND	10 0	mg/kg wet							
Carbon Ranges C12-C28	ND	10 0	11							
Carbon Ranges C28-C35	ND	100	Ħ							
Total Hydrocarbons	ND	10 0	n							
Surrogate 1-Chlorooctane	59 0		mg/kg	50 0		118	70-130			
Surrogate 1-Chlorooctadecane	55 I		"	50 0		110	70-130			
LCS (EJ63105-BS1)				Prepared	10/30/06 A	nalyzed 1	0/31/06			
Carbon Ranges C6-C12	503	10 0	mg/kg wet	500		101	75-125			
Carbon Ranges C12-C28	470	10 0	"	500		94 0	75-125			
Carbon Ranges C28-C35	ND	10 0	и	0 00			75-125			
Total Hydrocarbons	974	10 0	н	1000		97.4	75-125			
Surrogate 1-Chlorooctane	55 6		mg/kg	50 0		111	70-130			
Surrogate 1-Chlorooctadecane	43 2		"	50 0		86 4	70-130			
Calibration Check (EJ63105-CCV1)				Prepared	10/30/06 A	nalyzed 1	0/31/06			
Carbon Ranges C6-C12	471		mg/kg	500		94 2	80-120			
Carbon Ranges C12-C28	441		n	500		88 2	80-120			
Total Hydrocarbons	912		"	1000		912	80-120	•		
Surrogate, 1-('hlorooctane	130		'n	100		130	70-130			
Surrogate 1-Chlorooctadecane	108		n	100		108	70-130			
Matrix Spike (EJ63105-MS1)	Sou	ırce: 6J30006	-02	Prepared	10/30/06 A	nalyzed, I	0/31/06			
Carbon Ranges C6-C12	538	10 0	mg/kg dry	503	ND	107	75-125			
Carbon Ranges C12-C28	527	10 0	n	503	ND	105	75-125			
Carbon Ranges C28-C35	ND	10 0	**	0 00	ND		75-125			
Total Hydrocarbons	1060	10 0	н	1010	ND	105	75-125			
Surrogate I-Chlorooctane	59 5		mg/kg	50 0		119	70-130		1-1	
Surrogate 1-Chlorooctadecane	49 0		"	50 0		98 0	70-130			

Highlander Environmental Corp Project COG/ Jalmat Yates Unit Well #7

1910 N Big Spring St Project Number None Given
Midland TX, 79705 Project Manager Ike Tavarez

Fax (432) 682-3946

Organics by GC - Quality Control Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Lumit	Notes
Batch EJ63105 - Solvent Extraction (GC)									-	
Matrix Spike Dup (EJ63105-MSD1)	Sour	ce: 6J30096-	02	Prepared.	10/30/06 A	nalyzed 10	/31/06			
Carbon Ranges C6-C12	445	10 0	mg/kg dry	503	ND	88 5	75-125	189	20	
Carbon Ranges C12-C28	435	10 0	11	503	ND	86 5	75-125	19 1	20	
Carbon Ranges C28-C35	ND	10 0	"	0 00	ND		75-125		20	
Total Hydrocarbons	880	10 0	er	1010	ND	87 1	75-125	18 6	20	
Surrogate 1-Chlorooctane	49 6		mg [,] kg	50 0		99 2	70-130	-		
Surrogate 1-Chlorooctadecane	378		n	50 0		75 6	70-130			

Highlander Environmental Corp
1910 N Big Spring, St
Midland TX, 79705
Project Manager

Project Number
Project Manager
Rike Tavarez

Fax (432) 682-3946

General Chemistry Parameters by EPA / Standard Methods - Quality Control Environmental Lab of Texas

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch EJ63101 - General Preparation (Prep)										····
Blank (EJ63101-BLK1)				Prepared.	10/30/06	Analyzed 1	0/31/06			
% Solids	100		%							
Duplicate (EJ63101-DUP1)	Sour	ce: 6J26007-0)1	Prepared	10/30/06	Analyzed 1	0/31/06	•		
% Solids	94 0		%		93 9			0 106	20	
Duplicate (EJ63101-DUP2)	Sour	ce: 6J30001-0)4	Prepared	10/30/06	Analyzed [.] 1	0/31/06			
% Solids	94 2		%		94 4			0 212	20	
Duplicate (EJ63101-DUP3)	Sour	ce: 6J30014-0)1	Prepared	10/30/06	Analyzed 1	0/31/06			
% Solids	90 0		%		90 1			0 111	20	

Highlander Environmental Corp Project COG/ Jalmat Yates Unit Well #7 Fax: (432) 682-3946

1910 N Big Spring St Project Number Midland TX, 79705 Project Manager Ike Tavarez

Notes and Definitions

DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting lim
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
LCS	Laboratory Control Spike
MS	Matrix Spike
Dup	Duplicate

	Kaland KJulis		
Report Approved By:	700000000000000000000000000000000000000	_ Date:	11/2/2006

Raland K. Tuttle, Lab Manager Celey D. Keene, Lab Director, Org. Tech Director Peggy Allen, QA Officer

0

Jeanne Mc Murrey, Inorg. Tech Director LaTasha Cornish, Chemist Sandra Sanchez, Lab Tech.

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If you have received this material in error, please notify us immediately at 432-563-1800.

PAGE: ANALYSIS REGUEST (Circle ar Specify Method 8 % 8 % RW RW RW RW RW Change and Specify Method	0,002 10.1 (8015 MOD) 10.1 (8015 MOD) 10.1 Voletiles 10.4 (820) (820	LCTB NOTE LCTB N							SANTAN XI CALLA CAN MAN THESE TOOLS	西省		AIGHLANDER CONTACT FERSON: RUSH Charges Authorized:	CA CARRED NO	Project Hanager retaing pink copy - Accounting recuives Gold copy.
Analysis Request and Chain of Custody Record HIGHLANDER ENVIRONMENTAL CORP. 1910 N. Big Spring St. Midland, Texas 79705 Fax (432) 682-4559	CLENT NAME: CO 6 PROJECT NAME: PROJECT NAME: Think with Well #7 E 8 PRESERVATIVE BETHOD Think with Well #7 E 8 E 8	DATE THE R. SAMPLE DENTIFICATION SORT	(1) S(100) (1) S 1 S 4 Y	1/ 11 55 # 5 1/ S = 1/ S = 1/ S	24 10/20 6 1 55 # 12			•	REINQUESTED HY. (Signature) Date: Cathol 30 2010 Received BY: (Signature) Date:	RECEIVED BY: (Signature)	REINQUINED BY: (Manatura) Date: RECEIVED BY: (Manatura) Date: Time:	INT LANGE OF THE RECEIPTION BY: (Signature)	DN WEEN PECETYED: MATRIX	SCOLS (\$-Soil) HStudge 0-0ther reteins pellow copy - Return original copy to Highlander Environmental Cars

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

Client: HIMLENDEY				
Date/ Time: 10/30/00/ 91.00				
Lab ID #. (25,3000)				
Initials:				
Sample Receipt	Checklist			
Sumple Recorpt	Ollookiist			Client Initials
#1 Temperature of container/ cooler?	Yes	No	3,5 0	
#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?	X€s,	No		
#6 Sample instructions complete of Chain of Custody?	¥es'	No		
#7 Chain of Custody signed when relinquished/ received?	(Figs	No		
#8 Chain of Custody agrees with sample label(s)?	Xes	No	ID written on Cont./ Lid	
#9 Container label(s) legible and intact?	 √es	No	Not Applicable	<u> </u>
#10 Sample matrix/ properties agree with Chain of Custody?	X B'S	No	11001155100010	
#11 Containers supplied by ELOT?	Xes	No		
#12 Samples in proper container/ bottle?	Yes:	No	See Below	
#13 Samples properly preserved?	χ e s	No	See Below	
#14 Sample bottles intact?	/es	No		
#15 Preservations documented on Chain of Custody?) Zes	No		
#16 Containers documented on Chain of Custody?	Fes	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 VOC samples have zero headspace?	Ves	No	Not Applicable	
Variance Docur				
Contact: Jeff Kindley Contacted by: Jea	nne Minic	المصمين	Date/ Time:	10-30-06 @ 1110
Contact: Jeff Kindley Contacted by: Jean Regarding: Coc request TPH only Label requests	+-49T +z°	BTEX		
Client only wants to run TPH				
Check all that Apply: See attached e-mail/ fax Client understands and would cooling process had begun				



A Xenco Laboratories Company

Analytical Report

Prepared for:

Ike Tavarez
Highlander Environmental Corp.
1910 N. Big Spring St.
Midland, TX 79705

Project: COG/ Jalmat #7 Well Flow Line Leak

Project Number: 2737 Location: Lea County, NM

Lab Order Number: 7C01009

Report Date: 03/08/07

ua Spring St

1910 N Big Spring St Midland TX, 79705 Project COG/ Jalmat #7 Well Flow Line Leak

Project Number 2737
Project Manager Ike Tavarez

Fax (432) 682-3946

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SS #5 0-1 0'	7C01009-01	Soil	02/28/07 00 00	03-01-2007 13 20
SS #7 0-1 0'	7C01009-02	Soil	02/28/07 00 00	03-01-2007 13 20

Highlander Environmental Corp 1910 N Big Spring St Midland TX, 79705 Project COG/ Jalmat #7 Well Flow Line Leak

Project Number. 2737 Project Manager lke Tavarez Fax (432) 682-3946

Organics by GC Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SS #5 0-1.0' (7C01009-01) Soil					· · · · · · · · · · · · · · · · · · ·				
Carbon Ranges C6-C12	24.8	100	mg/kg dry	1	EC70207	03/02/07	03/08/07	EPA 8015M	
Carbon Ranges C12-C28	632	100	u	n	n	n	**	n	
Carbon Ranges C28-C35	75.5	100	n	**	"	n	"	п	
Total Hydrocarbons	733	100	n	"	**	н	"	11	
Surrogate: 1-Chlorooctane		100 %	70-13	30	"	"	"	"	
Surrogate. 1-Chlorooctadecane		119 %	70-13	30	"	"	"	н	
SS #7 0-1.0' (7C01009-02) Soil									
Carbon Ranges C6-C12	J [7. 2 9]	10.0	mg/kg dry	ı	EC70207	03/02/07	03/08/07	EPA 8015M	J
Carbon Ranges C12-C28	313	100	tt	"		11	"	п	
Carbon Ranges C28-C35	49.5	100	n	**	**	"	ч	**	
Total Hydrocarbons	ND	100	11	n	"	11	11	n .	
Surrogate 1-Chlorooctane		98 4 %	70-13	30	"	"	"	"	
Surrogate 1-Chlorooctadecane		114%	70-13	30	"	"	"	n	

Project COG/ Jalmat #7 Well Flow Line Leak

Fax (432) 682-3946

1910 N Big Spring St Midland TX, 79705

Project Number 2737 Project Manager Ike Tavarez

General Chemistry Parameters by EPA / Standard Methods **Environmental Lab of Texas**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SS #5 0-1.0' (7C01009-01) Soil									
% Moisture	5.1	0.1	%	1	EC70806	03/07/07	03/07/07	% calculation	
SS #7 0-1.0' (7C01009-02) Soil									
% Moisture	5.1	0 1	%	l	EC70806	03/07/07	03/07/07	% calculation	

Highlander Environmental Corp 1910 N Big Spring St

Midland TX, 79705

Project COG/ Jalmat #7 Well Flow Line Leak

Project Number 2737 Project Manager Ike Tavarez Fax (432) 682-3946

Organics by GC - Quality Control Environmental Lab of Texas

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch EC70207 - Solvent Extraction (GC)		<u>-</u>								
Blank (EC70207-BLK1)				Prepared 0	03/02/07 A	nalyzed 03	/07/07			
Carbon Ranges C6-C12	ND	10 0	mg/kg wet							
Carbon Ranges C12-C28	ND	100	"							
Carbon Ranges C28-C35	ND	100	"							
Total Hydrocarbons	ND	10 0	**							
Surrogate 1-Chlorooctane	508		mg·kg	50 0		102	70-130			
Surrogate 1-Chlorooctadecane	60 6		"	50 0		121	70-130			
LCS (EC70207-BS1)				Prepared (03/02/07 A	nalyzed 03	3/07/07			
Carbon Ranges C6-C12	624	10 0	mg/kg wet	500		125	75-125			
Carbon Ranges C12-C28	544	10 0	"	500		109	75-125			
Carbon Ranges C28-C35	ND	10 0	•	0.00			75-125			
Total Hydrocarbons	1170	0 01	"	1000		117	75-125			
Surrogate, 1-('hlorooctane	58 5		mg kg	50 0		117	70-130			
Surrogate 1-Chlorooctadecane	579		"	50 0		116	70-130			
Calibration Check (EC70207-CCV1)				Prepared (03/02/07 A	nalyzed 03	3/08/07			
Carbon Ranges C6-C12	232		mg/kg	250		92 8	80-120			
Carbon Ranges C12-C28	245		"	250		98 0	80-120			
Total Hydrocarbons	478		"	500		95 6	80-120			
Surrogate 1-Chlorooctane	62 9		n	50 0		126	70-130			
Surrogate 1-Chlorooctadecane	62 4		n	50 0		125	70-130			
Matrix Spike (EC70207-MS1)	Sou	ırce: 7C01009	9-01	Prepared (03/02/07 A	nalyzed 0	3/08/07			
Carbon Ranges C6-C12	651	10 0	mg/kg dry	527	24 8	119	75-125			
Carbon Ranges C12-C28	1030	100	n	527	632	75 5	75-125			
Carbon Ranges C28-C35	ND	100	"	0.00	75 5		75-125			
Total Hydrocarbons	1680	10 0	"	1050	733	90 2	75-125			
Surrogate 1-Chlorooctane	55 6		mg kg	50 0		111	70-130			
Surrogate 1-Chlorooctadecane	58.6		"	50 0		117	70-130			

Highlander Environmental Corp 1910 N Big Spring St Midland TX, 79705 Project COG/ Jalmat #7 Well Flow Line Leak

Project Number 2737
Project Manager Ike Tavarez

Fax (432) 682-3946

Organics by GC - Quality Control Environmental Lab of Texas

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes

	Batch EC70	207 - Solvent	Extraction	(GC))
--	------------	---------------	------------	------	---

Matrix Spike Dup (EC70207-MSD1)	Source	e: 7C01009	0-01	Prepared 0	3/02/07 A	nalyzed 03	3/08/07		
Carbon Ranges C6-C12	677	10 0	mg/kg dry	527	24 8	124	75-125	4 12	20
Carbon Ranges C12-C28	1040	10 0	n	527	632	77 4	75-125	2 49	20
Carbon Ranges C28-C35	ND	10 0	и	0 00	75 5		75-125		20
Total Hydrocarbons	1720	100	"	1050	733	94.0	75-125	4 13	20
Surrogate 1-Chlorooctane	58 6		mg kg	50 0		117	70-130		
Surrogate 1-Chlorooctadecane	58 9		#	50 0		118	70-130		

Project COG/ Jalmat #7 Well Flow Line Leak

1910 N Big Spring St

Midland TX, 79705

Analyte

Project Number 2737

Fax (432) 682-3946

Project Manager: Ike Tavarez

General Chemistry Parameters by EPA / Standard Methods - Quality Control Environmental Lab of Texas

											ı
		Reporting		Spike	Source		%REC		RPD		l
•	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes	ı

Batch EC70806 -	General P	reparation	(Prep)

Blank (EC70806-BLK1)			Prepared & Analyzed 03/07/07			
% Solids	100	%				
Duplicate (EC70806-DUP1) .	Source: 70	C01009-01	Prepared & Analyzed 03/07/07			
% Solids	95 2	%	94.9	0 316	20	

Highlander Environmental Corp
1910 N Big Spring St
Midland TX, 79705
Project Manager
Project M

Notes and Definitions

Det Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

dry Sample results reported on a dry weight basis

RPD Relative Percent Difference

LCS Laboratory Control Spike

MS Matrix Spike

	P. Daener	the consequence of		
Report Approved By:			Date: _	3/8/2007

P = - R

Brent Barron, Laboratory Director/Corp. Technical Director Celey D. Keene, Org. Tech Director Raland K. Tuttle, Laboratory Consultant

James Mathis, QA/QC Officer Jeanne Mc Murrey, Inorg. Tech Director

This material is intended only for the use of the individual (s) or entity to whom it is addressed, and may contain information that is privileged and confidential.

If you have received this material in error, please notify us immediately at 432-563-1800.

Dup

Duplicate

ANALYSIS REQUEST (Circle or Specify Method No.)	25 BH 64 50	1510/65 580/854 a	1. (40) 1. (40) 1. (40) 1. (40) 1. (40) 1. (40) 1. (40) 1. (40) 1. (40)	1015 NOTE: 1008/08/08/08/08/08/08/08/08/08/08/08/08/	~						SHAPLED FY: (Frint & Sign) Date: 31/107	SARPLE SHIPPED BY: (Chrole) FEDEX BUS ARBILL \$		PKRSON:	I Ke Thunks 180	
and Chain of Custo	HIGHLANDER ENVIRONMENTAL CORP. 1910 N. Big Spring St. Midland, Texas 79705 Fax (432) 682-4559	SITE MANAGER: Ike Taurioz		21202778	-2 2/24/07 5 X SS #5 0 -1.0"	1, 2/28/67 5 X 55 # 7 0 - 1.0'					RELINGUESHED ST. (Signature) Date: 1110 / RECEIVED BY. (Signature) Date: Time:	RRLINGUIGHED BY: (Signature) Date: RECEIVED BY: (Signeture) Date: Time: Time:	Data:	RECEIVED BY: (Signature)		MATRIK: R-B

1 1

Environmental Lab of Texas

Variance/ Corrective Action Report- Sample Log-In

Client: Highlander				
Date/ Time: 3177 13:20				
Lab ID #: 1001007				
Initials:				
Tilidas.				
Sample Receipt (Checklist			
	, 		Client In	iltials
#1 Temperature of container/ cooler?	Yes	No	4.0 °C	
#2 Shipping container in good condition?	VED.	No		
#3 Custody Seals intact on shipping container/ cooler?	Yes	<u>No</u>	Not Present	
#4 Custody Seals intact on sample bottles/ container?	Yes	No	Not Present	
#5 Chain of Custody present?	Xes ₂	No		-
#6 Sample instructions complete of Chain of Custody?	Ves-	No		
#7 Chain of Custody signed when relinquished/ received?	(63	No		
#8 Chain of Custody agrees with sample label(s)?	¥2 5 5	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?	\ ∠€s	No		
#12 Samples in proper container/ bottle?	¥e ₃	No	See Below	
#13 Samples properly preserved?	Xes.	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?	(53	No		
#17 Sufficient sample amount for indicated test(s)?	Yes	No	See Below	
#18 All samples received within sufficient hold time?	/es>	No	See Below	
#19 Subcontract of sample(s)?	Yes	No	Not Application	
#20 VOC samples have zero headspace?	Yes	No	Not Applicable	
		L		
Variance Docur	nentation			
Contacted by:			Date/ Time:	
		•		
Regarding:				
_				
· ·				 _
Corrective Action Taken:				
•				
-				
				
Check all that Apply: See attached e-mail/ fax				
☐ Client understands and would	ld like to pro	ceed with	ı analysis	
Cooling process had begun	shortly after	sampling	event	

OCT-03-06 01:37PM FROM-CONCHO 1625 N. French Dr., Hobbs, NM 88240 District II 1301 W. Grand Ayenue, Artesia, NM 88210 District III
1000 Rio Brazos Road, Aziec, NM 87410

District IV 1220 S. St. Francis Dr., Santa Fc, NM 87505

Energy Minerals and Natural Resources

+4326854399

T-551

Oil Conservation Division 1220 South St. Francis Dr.

Form C-141 Revised October 10, 2003 Submit 2 Copies to appropriate
District Office in accordance
with Rule 116 on back

P.02/03 F-872

side of form

Santa Fe, NM 87505 Palagea Natification and Corrective Actio

			Kete	ease mounic	ation	i and Co	rrective A	cuon							
OPERATOR \(\times\) AMENDED										al Report		Final Repor			
							Contact Phyllis Edwards								
							No. 432-683-4	340							
Facility Name Jalmat Yates Unit #7							e Gas Well								
Surface Ow	ner			Mineral C) wuer	Lease No. 301048									
LOCATION OF RELEASE															
Unit Letter	er Section Township Range Feet from the North					/South Line Feet from the			Vest Lino	County					
0	12	25\$	outh	1650	1650 East			Lea							
LatitudeLongitude															
					URE	OF REL									
Type of Rele		duced oil 8	water le	ak	·	Volume of Release 6 BO & 75 BW Volume Recovered 1 BO & 5 BW									
Source of Ro	22801	hole in fi	enilwo			Date and Hour of Occurrence Date and Hour of Discovery 9/5/06 time unknown 9/5/06 apprx 3:00 PM									
Was Immedia	are Notice C					lf YES, To			4,0,0	o uppix	0.001	111			
		×	Yes [] No 🔲 Not R	equired		Left m	essage	ddoH lw	s NMOCD					
By Whom?		employee B	oyd Ches	ser			Ιουτ 3:00 PM		****						
Was a Water	course Reac		Yes 🗵	No P		If YES, Vo	olume Impacting t	ho Wate	ercourse.						
If a Watercon	rse was Im	pacted, Descr	ibe Fully.	*											
		-	·												
Describe Car	se of Probl	em and Reme	dial Actio	n Taken.*		······································				···					
			•	Hole in flow	vline. I	Replace fl	ow line.								
Describe Are	a Affected	and Cleanup	Action Ta	ken. †	lana si	lawlina /1/	10/ × 41) to ode			d (42 00	1) 41				
Leak 1/4 m	(10 3E OF	well towar enaired flo	a patter Wine k	ry. Leak ran a Pak Pickedu	n all si	lOWIIΠΘ (Zl fandina fli)0′ x 1′) to edg aids that could	ge or u	ase roa	(4, X 90 (4, X 90	'), the	n crossed			
piled up to	be pick	ed up & ha	uled of	f. Highlander	Enviro	nmental v	vill assess the	leak	area and	ı. Kakeu Will begi	n cle:	an-un			
work the	week of 9	-18 to 9-22	. Call E	Boyd Chesser	w/ CO	G @ 432-	557-5379 or lk	e @ H	lghlande	r Enviror	ımen	tal @ 432-			
425-3878.	fy that the	information a	ivon abov	e is true and com	lete to t	he best of my	knowledge and u	nderera	ad that mur	enant to NIM	OCD.	oles and			
regulations a	ll operators	are required (o report a	nd/or file certain	release n	otifications a	and perform correc	ctive act	ions for rel	leases which	i may c	ndanger			
public health	or the envi	ronment. The	acceptan	ce of a C-141 rcp	οιτ by th	e NMOCD n	iarkod as "Final R	cport" (locs not rel	ieve the ope	rator o	fliability			
should their	operations b	lave tailed to	JCD 2008	y, investigate and i	Biborior Stronger	e contaminat	ion that pose a three of the operator of	eat to g	round wate	r, surface w	ater, hu	ıman health			
federal, state	, or local la	ws and/or reg	ulations.	plattee of a C-141	report	ines ital tolla	vo tite operator of	respons	ibility for t	computance	will all	y other			
	OIL CONSERVATION DIVISION											***************************************			
Signaturo:					ŀ										
Printed Nam	o Phulli	A. Edwards				Approved by District Supervisor:									
							A annual Dani				The state of the s				
Tide:	Title: Regulatory Analyst						Approval Date: Expir				ration Date:				
E-mail Address: pedwards@conchoresources.com						Conditions of Approval:				Attached					
Date: 9/13				432-685-4340											
* Attach Add	itional She	ets If Neces	sary												