

Executive Summary EnerVest Jack B-2 & 3 Remediation Project 1PR-2541

Location

The site is located approximately ten miles north of the City of Jal, Lea County, New Mexico on fee lands. The primary land use is grazing of cattle however extensive oil and gas operations are prevalent in the area. The area is semi-arid with a net precipitation / evaporation amount of -73" per year. The legal description is S-30, T24S, R-37E. Depth to groundwater is estimated to be approximately 112' below ground surface.

History

A small grass fire occurred at an unknown date and unreported to EnerVest. The responder to the fire placed a clamp on a singed section of poly line. During a recent acidizing of the line, a pressure drop was detected & the line was immediately walked to find the source of the pressure drop. The clamp was removed & the line fully re-bonded.

Delineation Activities

The affected area was delineated with a Geonics EM-38 providing conductivity / resistivity comparisons from the ground surface to a depth of 5'. The results of the survey indicated that the leak traveled due east atop an OXY reserve pit and puddled in two distinct areas. The first is situated immediately east of the pit area – extending approximately 45', the second is situated along the northern end of the reserve pit extending approximately 10' into the pasture. A series of four bores were advanced. The first, situated directly above the location of the burned line showed elevated chloride concentrations to a depth of 20' below ground surface. The second (background) boring revealed non-detectable chloride concentrations. The third boring was taken at the northern edge of the reserve pit and revealed comparatively higher chloride concentrations probably resulting from leaching of the reserve pit. The final boring taken atop the eastern "finger" showed minor to moderate chloride concentrations to a depth of 20' below ground surface.

Remediation

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The chloride concentrations over the entire site are minor to moderate in concentrations. Borings confirm that chloride concentrations diminish quickly with depth and pose no threat to the shallow groundwater but will prove to be problematic when establishing revegetation over the affected areas. We propose to remove and commercially dispose of all soils containing a chloride concentration exceeding 1,200 ppm and backfilling the excavated areas with fresh topsoil and organics.





ENERVEST JAL WEST LEAK NW/SE UL/J SEC30 - T24S - R37E GPS LAT & LON NAD27 (DECIMAL) N32.16897350 / W103.20043950 DTW: 100' > 120' BGS Texaco / Chevron 2005 water data map





Summary of Excavation Soil Sample Analytical Results

ENERVEST JAL WEST LEAK 1RP-2541

					DID	Field				- E	Carbon	Carbon	
	Soil Sample	Depth	Sample	Soil	Readin	Chloride	Benzene	Toluene	Ethyl	V. lotal	Ranges	Ranges	Chloride
LAD #	Ð.	(Feet)	Date	Status	ත	Analysis	(mg/kg)	(mg/kg)	mg/kg)	Aytenes (mg/kg)	(C6-C10)	(C10-C28)	(mg/Kg)
					(mdd)	(mdd)			(o o		(mg/Kg)	(mg/Kg)	
	Source					00							ء ب د ب
د ب ب	(SP1)					66					т 41 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	, , ,	
, a , a, ,	Source					1 407		, . , .			, * , F		
· · ·	(SP2)					1492							***
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7	(SP3)					200		* 0 * *				· .	· · · · · · · · · · · · · · · · · · ·
H19906-1	Source (SP4)					3671	0.092	2.28	1.15	9.96	931	9,190	3,720
	Source East				<u> </u>	130		, د با در	ور در ب ب ب ب				и к., У.,
	(SP1)	- 7	5/14/10	Hand	V/V	001		, , , ,				· · ·	الفيارية. مناقب من الفيارية
H19906-2	Source East (SP2)	0	01/+1/0	Auger		2009	<0.050	0.193	0.057	0.393	<10.0	<10.0	2,680
	Source East					1292			8 8 9 1 9 1 9 1 9 1 9 1 9 1 1 9 1 1 9 1		4 19 19 19 19 19 19 19		2" " • " , ,
а ч.	Source Fast								- , , ,	•		* · · · · · · · · · · · · · · · · · · ·	
	(SP4)					2092	4 - 	, , , , , , , , , , , , , , , , , , ,	· · ·	ه د رم د ، ،	· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·	
U10006 2	North Side					5400	~0.050	0 1 15	0 167	0.940	301	3 030	7 360
C-0066111	(SP1)					00+0	000.04	C+1.0	0.102	0+0.0	C 7 1	000,0	000.1
	North Side					U7 EC	*	, , , , , , , , , , , , , , , , , , ,		к 1 1 1 3		• • • • •	ч • •
ور بر م م م	(SP2)					70/0		2	 د			- 4 - 4 - 4	

Chloride (mg/Kg)	4,640		3,040			3,840	784	<16	368	416	1,310	640	384
Carbon Ranges (C10-C28) (mg/Kg)	1,360		9,550			4,100	<10.0		<10.0	<10.0		<10.0	
Carbon Ranges (C6-C10) (mg/Kg)	33.4		1,970			<50.0	<10.0		<10.0	<10.0	1949-1949-194	<10.0	
Total Xylenes (mg/kg)	0.747		39.9										
Ethyl Benzene(mg/kg)	1.1		0.898										
Toluene (mg/kg)	0.089		5.00										
Benzene (mg/kg)	<0.050		0.099										
Field Chloride Analysis (ppm)	4115	3896	2410	1936	857								
PID Readin g (ppm)		N/A											
Soil Status		hand	auger						auger	returns			
Sample Date		5/14/10					6/1/10		6/3/10	01/10/20	01/10/00	01/07	017/0
Depth (Feet)		6"				surface	20'	5'	surface	,07	25'	15'	20'
Soil Sample ID.	North Side (SP3)	North Side (SP4)	Finger (SP1)	Finger (SP2)	Finger (SP3)	(B 1)	(B1)	(B2)	(B3)	(B3)	(B3)	(B4)	(B4)
LAB#	H19906-4		H19906-5			H20028-1	H20028-2	H20028-3	H20028-4	H20028-5	H20028-6	H20028-7	H20028-8



May 20, 2010

Mike Griffin Whole Earth Environmental, Inc. 2103 Arbor Cove Katy, TX 77494

Re: Enervest Jal Spill West

Enclosed are the results of analyses for sample number H19906, received by the laboratory on 05/14/10 at 4:25 pm.

Cardinal Laboratories is accredited through Texas NELAP for:

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

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

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

Method	EPA	552.2
Method	EPA	524.2
Method	EPA	524.2

Haloacetic Acids (HAA-5) Total Trihalomethanes (TTHM) Regulated VOCs (V2, V3)

Accreditation applies to public drinking water matrices.

Total Number of Pages of Report: 3 (includes Chain of Custody)

Sincere Keene

Laboratory Director



ANALYTICAL RESULTS FOR WHOLE EARTH ENVIRONMENTAL, INC. ATTN: MIKE GRIFFIN 2103 ARBOR COVE KATY, TX 77494 FAX TO: (281) 394-2051

Receiving Date: 05/14/10 Reporting Date: 05/19/10 Project Owner: NOT GIVEN Project Name: ENERVEST JAL SPILL WEST Project Location: NOT GIVEN Sampling Date: 05/14/10 Sample Type: SOIL Sample Condition: COOL & INTACT @ 3.5°C Sample Received By: JH Analyzed By: AB/ZL/HM

		GRO	DRO			ETHYL	TOTAL	
LAB NO.	SAMPLE ID	(C ₆ -C ₁₀)	(>C ₁₀ -C ₂₈)	BENZENE	TOLUENE	BENZENE	XYLENES	CI*
		(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)

ANALYSIS DATE:	05/18/10	05/18/10	05/18/10	05/18/10	05/18/10	05/18/10]	05/17/10
H19906-1 SOURCE (SP4)	931	9,190	0.092	2.28	1.15	9.96	3,720
H19906-2 SOURCE EAST (SP2)	<10.0	<10.0	<0.050	0.193	0.057	0.393	2,680
H19906-3 N. SIDE (SP1)	125	3,030	<0.050	0.145	0.162	0.848	7,360
H19906-4 N. SIDE (SP3)	33.4	1,360	<0.050	0.089	0.100	0.747	4,640
H19906-5 FINGER (SP1)	1,970	9,550	0.099	5.00	0.898	39.9	3,040
Quality Control	454	437	0.010	0.010	0.010	0.029	500
True Value QC	500	500	0.010	0.010	0.010	0.030	500
% Recovery	90.8	87.4	100	100	100	96.7	100
Relative Percent Difference	2.2	1.1	9.3	8.8	10.9	10.7	< 0.1

METHODS: TPH GRO & DRO - EPA SW-846 8015 M; BTEX - SW-846 8021B; CI-: Std. Methods 4500-CI-B *Analyses performed on 1:4 w:v aqueous extracts. Reported on wet weight.

TEXAS NELAP ACCREDITATION T104704398-08-TX FOR BENZENE, TOLUENE, ETHYL BENZENE, AND TOTAL XYLENES. Not accredited for GRO/DRO and Chloride.

.ab Director

H19906 TBCL WEE

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1RP-2541 ENEVEST JAL WEST LEAK PAGE 10

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240 2111 Beechwood, Abilene, TX 79503

	(505) 393-2326 FAX (505) 393-2	476	(325)	673-1	7001	:AX (:	325)67	3-7020												
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Project Name:	Enervest Jal Spill West					Stat	:0	Zip:												
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t	N. Side (SP3)		 		t		1	7	11:05	7	/	17	$\left[\right]$							
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내 26 IRP-2541 ENEVEST JAL WEST LEAK PAGE 11



June 9, 2010

Michael Griffin Whole Earth Environmental, Inc. 2103 Arbor Cove Katy, TX 77494

Re: Enervest - Jal (West)

Enclosed are the results of analyses for sample number H20028, received by the laboratory on 06/03/10 at 10:44 am.

Cardinal Laboratories is accredited through Texas NELAP for:

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

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

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

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

Accreditation applies to public drinking water matrices.

Total Number of Pages of Report: 4 (includes Chain of Custody)

Sincerely

Celey D. Keene Laboratory Director



ANALYTICAL RESULTS FOR WHOLE EARTH ENVIRONMENTAL, INC. ATTN: MICHAEL GRIFFIN 2103 ARBOR COVE KATY, TX 77494 FAX TO: (281) 394-2051

Receiving Date: 06/03/10 Reporting Date: 06/08/10 Project Owner: NOT GIVEN Project Name: ENERVEST - JAL (WEST) Project Location: NOT GIVEN Analysis Date: 06/04/10 Sampling Date: 06/01/10 - 06/03/10 Sample Type: SOIL Sample Condition: COOL & INTACT @-1.5°C Sample Received By: CK Analyzed By: HM

		CI
LAB NO.	SAMPLE ID	(mg/kg)
H20028-1	(B1) SURFACE	3,840
H20028-2	(B1) 20'	784
H20028-3	(B2) 5'	<16
H20028-4	(B3) SURFACE	368
H20028-5	(B3) 20'	416
H20028-6	(B3) 25'	1,310
H20028-7	(B4) 15'	640
H20028-8	(B4) 20'	384
Ouelity Cor	trol	500
		500
<u>% Recover</u>	y	100
<u></u>	rcent Difference	<0.1

METHOD: Standard Methods Note: Analyses performed on 1:4 w:v aqueous extracts.

Chemist

06/09/10

4500-CI'B

H20028 CL WEE

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ANALYTICAL RESULTS FOR WHOLE EARTH ENVIRONMENTAL, INC. ATTN: MICHAEL GRIFFIN 2103 ARBOR COVE KATY, TX 77494 FAX TO: (281) 394-2051

Receiving Date: 06/03/10 Reporting Date: 06/08/10 Project Owner: NOT GIVEN Project Name: ENERVEST-JAL (WEST) Project Location: NOT GIVEN Sampling Date: 06/01/10 - 06/03/10 Sample Type: SOIL Sample Condition: COOL & INTACT @ -1.5⁰C Sample Received By: CK Analyzed By: AB

GRO	DRO
(C ₆ -C ₁₀)	(>C ₁₀ -C ₂₈)
(mg/kg)	(mg/kg)

LAB NUMBEF SAMPLE ID

ANALYSIS DATE:	06/07/10	06/07/10
H20028-1 (B1) SURFACE	<50.0	4,100
H20028-2 (B1) 20'	<10.0	<10.0
H20028-4 (B3) SURFACE	<10.0	<10.0
H20028-5 (B3) 20'	<10.0	<10.0
H20028-7 (B4) 15'	<10.0	<10.0
Quality Control	510	488
True Value QC	500	500
% Recovery	102	97.6
Relative Percent Difference	4.8	4.6

METHOD: SW-846 8015 M. Reported on wet weight.

hemist

19/17

Date

H20028 TPH WEE

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(505) 393-2326 FAX (505) 393	3-2476 (325) 673-7001 F/	XX (325)673-7020		
Company Name: Whole Ear JA Ear !!	r pyna en sul	BILL TO		ANALYSIS REQUEST
Project Manager: M: Ke (3,		P.O. #:		
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City: Keyry State: W	Zip:	Attn:		
Phone #: Fax #:		Address:		
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Detail of Source Sampling Locations



Deatil of North Side Sampling Locations



Detail of Finger Sampling Locations





Remediation and Site Restoration Protocol EnerVest Jack B-2 & B-3

1.0 Purpose

This protocol is to provide a detailed outline of the steps to be employed in the remediation of a brine and hydrocarbon affected area in Lea County, New Mexico.

2.0 Scope

This protocol is site specific for the above project.

3.0 Preliminary

Prior to any field operations, Whole Earth Environmental shall conduct the following activities:

3.1 Client Review

- 3.1.1 Whole Earth shall meet with appointed personnel within EnerVest to review this protocol and make any requested modifications or alterations.
- 3.1.2 Changes to this protocol will be documented and submitted for final review by EnerVest prior to the initiation of actual fieldwork.
- 3.1.3 Upon client approval, this protocol and supporting documentation will be submitted to the Hobbs district of the NMOCD for approval.

4.0 Safety

- 4.1 Prior to work on the site, Whole Earth shall obtain the location and phone numbers of the nearest emergency medical treatment facility. We will review all safety related issues with the appropriate EnerVest personnel, sub-contractors and exchange phone numbers.
- 4.2 A tailgate safety meeting shall be held and documented each day. All subcontractors must attend and sign the daily log-in sheet.
- 4.3 Anyone allowed on to location must be wearing sleeved shirts, steel toed boots, and long pants. Each vehicle must be equipped with two way communication capabilities.

5.0 Remediation Procedure

- **5.1** The areas not related to the recent brine spill or leaking tank issues will be electromagnetically surveyed to determine the comparative conductivity / resistivity of the soils. Bare spots will be tested for the presence and concentrations of chlorides.
- 5.2 All soils containing chloride concentrations exceeding 1,200 ppm shall be excavated and sent to commercial disposal. All excavated areas will be backfilled with fresh topsoils and organic mixtures.

6.0 Site Restoration Procedure

6.1 Once all contaminants of concern are remediated to the NMOCD Assessment Criteria guidelines, the area will be superficially disked or tilled and covered in fresh topsoils, organics and NMSLO approved seed mixtures. The area will be re-contoured to replicate background elevations.

7.0 Closure Report

At the conclusion of the project, Whole Earth shall prepare a closure report which contains the following minimum information:

- Photographs of the location prior to remediation
- Photographs of all excavations at the point of maximum soil removal
- Photographs of the location at time of final closure
- All pre-closure contaminant concentrations
- Copies of this protocol and all testing procedures
- Manifests of all materials sent to commercial disposal

Ostruct 1 1625 N. Fracetti IV., Hobbs, NM 88240 <u>District II</u> 1701 W. Gand Avenue, Antesix, NM 88240 <u>Quartical II</u> 1000 Run Irazov, Scool, Actor, NAS 87440 <u>District IV</u> 1220 S. M. Fraccis Dr., Konto F., MM 87505	Sta Energy Mir Oil C (220) Sa	State of New Mexico Energy Minerals and Natural Resources Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505			Form C-1d1 Revised October 10, 2003 Submit 2 Copies to appropriate Laistreet Office in accomstore with Rule 116 on back sole et form				
Release Notification and Corrective Action									
	OPERATOR			(X Initial Report) [] Fuel Report					
Address 1001 Famin St # 800 Houston, TX 77002				Telephane No. (713) 495-6534					
Facility Name Jack B-2 OPER				Facility Type N/A					
Surface Owner RRR Ran_h		1 Lease No (1PI 30-025-25071							
LOCATION OF RELEASE JACK B 30 TZ									
Unit Letter Section Township Ran	ge Feel finta the	Not	h/South Lin.	Feel from the	Easi/W	Ves Line	Connul.		
0 30 215 370							LEA COUN	IT NM	
Latitude <u>32.186633N</u> Longmude <u>103.2000048W</u> WTR (10+' NATURE OF RELEASE									
Source of Release PRODUCED WATER	Volume of Release 3 BBI S (25) Volume Recovered 4 Data and them of Occurs are 80x. That and time of Discovere 5/13/10 PX1								
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X Yes									
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□ \u ⊠ № `									
Describe Gause of Problem and Remedial A A small gross fire occured as an unknowed During a recent acidizing of the line, a press was removed to the line, tufly re-husded	rion Taken,* ne and unreparted to B we drop was detected o	juerV & the	est. The respon time was anote	der to the fire pla dearch: 5 piket in	seri a cla fin l the	nub or a ki	inged section a the pijesaw යි	f puls June, 149, the clamp	
Describe Area Affected and Cheamp Action Faker * The affected area is mainly substeading an UX-Y reserve pit. Small fingers extend beyond the pit perimeter. The area was surveyed, soil samples collected and sent to Cardinal for analysis. The 1th results cause back showing chloride concentrations in everys of standard). Vertical definition for sete is scheduled 3-27-10.									
I hereby certify that the information given all regulations all operators are required to repe- polsite health or the environment. The aver- ditual their expensions have failed by adequ- or the environment to addition, NAOCD a federal, state or foral lays and/or a gulation.	nice is the and complet medior file certain re- tance of a C-141 repo- tely investigate and re- coptance of a C-144 or S	ete tø lease t by f medit cport	the best of my notifications an he NMDCD as he evolution does not related	knowledge and in of perform correct arked its "Fund Re on that pose a three clifte operator of r	eleisian five acià épist* di e il 10 gai espanait	d that purs and fair rele sets and reli- vatal e-fater billing for er	nant to NMOC ases which ma- ieve the operato is surface state maphanee with	Dentes and y endanger or of hability , instan health any other	
Summer Douglar 18	OIL CONSLIC ATION DIVISION								
Printed Same: Dangla Avane				Approved by Distort EWVINONWENTAL ENGINEER					
Title HEP Tech			Spread Date	5.24.10	1	Aparation I	Drue: 7 26	.10	
E near Address - <u>dwarner@Euer Vest we</u>	Conditions of	Approval		7	Anacher D]			
Date 5-34-98 Phone Attach Additional Sheets II Necessary	(979) 212 (1148		Subnar Finia	e C. 141 wh	bocs 5	<i>і</i> . щ	IRPª 10	.5. 2541	

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