CLOSURE DOCUMENTATION

"SV" CHIPSHOT RELEASE SITE REF: #160037

UL-K (NE¼ of the SW¼) of Section 11 T16S R36E ~2 MILES SOUTHEAST OF LOVINGTON LEA COUNTY, NEW MEXICO LATITUDE: N 32° 56' 11.70" LONGITUDE: W 103° 19' 32.42"

JUNE 2006

PREPARED BY:

ENVIRONMENTAL PLUS, INC. **2100 AVENUE O EUNICE, NEW MEXICO 88231**

PREPARED FOR:

Sacility - FPAC 06 18753642

Dincident -n PAC 06 18753948

application - PPAC 06 18753953

LETTER OF TRANSMITTAL

ENVIRONMENTAL PLUS, INC.

Date: June 29, 2006

To: Larry Johnson

Company Name: NMOCD

Address: 1625 North French

City / State / Zip: Hobbs, NM 88240 From: Jason Stegemoller

CC: Brad Blevins, Chesapeake-Hobbs, NM

Curtis Blake, Chesapeake-Hobbs, NM Harlan Brown, Chesapeake-Tulsa, OK Pat Wise, City of Lovington-Lovington, NM

Project #: 160045

Project Name: "SV" Chipshot

Subject: Closure Documentation

of originals # of copies Description

1 Closure Documentation

Dear Mr. Johnson:

Enclosed is the Closure Documentation for the above-referenced site.

Should you have any questions or concerns, please feel free to contact lain Olness or me at (505) 394-3481.

Sincerely,

Environmental Plus, Inc.

Jason Stegemoller

P. O. Box 1558 Eunice, NM 88240 (505) 394-3481 Fax: (505) 394-2601





Distribution List

Site Characterization "SV" Chipshot Ref. #160037

Name	Title	Company or Agency	Mailing Address	e-mail
Larry Johnson	Environmental Engineer	New Mexico Oil Conservation Division – Hobbs	1625 French Drive Hobbs, NM 88240	larry_johnson@state.nm.us
Bradley Blevins	Field Supervisor	Chesapeake Operating, Inc.	P.O. Box 190 Hobbs, NM 88240-0190	bblevins@chkenergy.com
Curtis Blake	Superintendent	Chesapeake Operating, Inc.	P.O. Box 190 Hobbs, NM 88240-0190	cblake@chkenergy.com
Harlan Brown	Senior Environmental Representative	Chesapeake Operating, Inc.	6100 N. Western Avenue Oklahoma City, OK 73118	hbrown@chkenergy.com
Pat Wise	City Manager	City of Lovington	P.O. Box 1268 Lovington, NM 88260	pwise@lovington-nm.org
File		Environmental Plus, Inc.	P.O. Box 1558 Eunice, NM 88231-1558	iolness@envplus.net



STANDARD OF CARE

Site Characterization

"SV" Chipshot Ref. #160037

The information provided in this report was collected consistent with the New Mexico Oil Conservation Division (NMOCD) Guidelines for Remediation of Leaks, Spills and Releases (August 13, 1993), the NMOCD Unlined Surface Impoundment Closure Guidelines (February, 1993) and Environmental Plus, Inc. (EPI) Standard Operating Procedures and Quality Assurance/Quality Control Plan. The conclusions are based on field observations and laboratory analytical reports as presented in the report. Recommendations follow NMOCD guidance and represent the professional opinions of EPI staff. These opinions were derived using currently accepted geologic, hydrogeologic and engineering practices at this time and location. The report was prepared or reviewed by a certified or registered professional with a background in engineering, environmental and/or natural sciences.

This report was prepared by: The second of	June 26, 2006 Date
This report was reviewed by: A lain A. Olness, P.G. Technical Manager	6/26/ch Date



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FIGURES

Figure 1: Area Map

Figure 2: Site Location Map

Figure 3: Site Map

Figure 4: Soil Boring and Sample Location Map, 11-10-05 through 11-29-05

Figure 5: Sample Location Map, 12-14-05 through 12-20-05

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Table 1: Well Data

Table 2: Summary of Soil Boring Soil Sample Laboratory Analytical Results Table 3: Summary of Excavation Soil Sample Laboratory Analytical Results

APPENDICES

Appendix I: Laboratory Analytical Reports and Chain-of-Custody Forms

Appendix II: Project Photographs Appendix III: Soil Boring Logs

Appendix IV: Final NMOCD C-141 Form



1.0 PROJECT SYNOPSIS

Site Specific:

- ♦ Company Name: Chesapeake Operating, Inc.
- ♦ Facility Name: "\$V" Chipshot
- ♦ Project Reference: 160037
- ♦ Company Contacts: Bradley Blevins
- ♦ Site Location: WGS84-N32°56'-11-70"; W103°-19'-32-42"
- ♦ Legal Description: Unit Letter-K, (NE¼ of the SW¼), Section 11, T 16S, R 36E
- ♦ General Locattion: Approximately 2-miles southeast of Lovington, New Mexico
- ♦ Elevation: 3,895-ft amsl
- ♦ Depth to Ground Water: approximately ~77-ft bgs
- ♦ Land Ownership: City of Lovington

EPI Personnel: Project Consultant - Iain Olness

Site Foreman - John Robinson

Release Specific:

- ♦ Product Released: Crude oil >
- ♦ Volume Released: Unknown Volume Recovered: None
- ♦ Time of Occurrence: Unknown Time of Discovery: November 4, 2005, 11:30 A.M.
- ♦ Release Source: Leak from tank battery
- ♦ Initial Surface Area Affected: ~3,200 square feet

Remediation Specific:

- Final Vertical extent of contamination: 12-feet bgs at maximum depth
- ♦ Water wells within 1,000-ft: 3 (L 05922, L 09389 and L 11093)
- ♦ Private domestic water sources within 200-ft: 0
- ♦ Surface water bodies within 1,000-ft: 0
- ♦ *NMOCD Site Ranking Index:* 30 points (<100-ft to top of water table and <1,000-ft from water source)
- ♦ Remedial goals for Soil: TPH 100 mg/Kg; BTEX 50 mg/Kg; Benzene 10 mg/Kg; Chloride and sulfate residuals may not be capable of impacting groundwater above NMWQCC groundwater standards of 250 mg/Kg and 600 mg/Kg, respectively.
- ♦ RCRA Waste Classification: Exempt
- ♠ Remediation Option Selected: a) Impacted soil above NMOCD remedial goals was excavated and transported to Sundance Services for Disposal; b) laboratory analyses to confirm removal of soil impacted above NMOCD remedial thresholds and NMWQCC groundwater standards in excavation sidewalls; c) isolation of residual chlorides in excavation floor with a compacted clay barrier; d) backfill excavation with clean soil purchased from an off-site source.
- Treatment/Disposal Facility: Saunders Land Farm- Lovington New Mexico and Sundance Services Hobbs, New Mexico
- Volume disposed: approximately 2,858-yd³
- Project Completion Date: January 2, 2006



2.0 SITE AND RELEASE INFORMATION

- 2.1 Describe the land use and pertinent geographic features within 1,000 feet of the site. Land surrounding the area is pastureland and utilized for livestock grazing.
- 2.2 Identify and describe the source or suspected source(s) of the release. Leaking tank battery
- 2.3 What is the volume of the release? (if known): Unknown barrels of crude oil
- 2.4 What is the volume recovered? (if any): None
- 2.5 When did the release occur? (if known): Unknown

2.6 Geological Description

The United States Geological Survey (USGS) Ground-Water Report 6, "Geology and Ground-water Conditions in Southern Lea County, New Mexico, "A. Nicholson and A. Clebsch, 1961, describes the near surface geology of southern Lea County as "an intergrade of the Quaternary Alluvium (QA) sediments (i.e., fine to medium sand, with the mostly eroded Cenozoic Ogallala (CO) formation). Typically, the QA and CO formations in the area are capped by a thick interbed of caliche and generally overlain by sandy soil."

The release site is located in the High Plains physiographic subdivision, described by Nicholson & Clebsch as "a flat, gently sloping plain, treeless and marred only by slight undulations and covered with short prairie grass."

2.7 **Ecological Description**

Vegetation in the High Plains consists primarily of short grass prairie grasses interspersed with Honey Mesquite (Prosopis glandulosa) and, annual and perennial forbs. Mammals represented, include Orrd's and Merriam's Kangaroo Rats, Deer Mouse, White Throated Wood Rat, Cottontail Rabbit, Black Tailed Jackrabbit, Mule Deer, Bobcat, Red Fox and Covote. Reptiles, amphibians, and birds are numerous and typical of area. A survey of Listed, Threatened, or Endangered species was not conducted.

2.8 Area Groundwater

The unconfined groundwater aquifer at this site is projected to be ~77-ft bgs based on water depth data obtained from the New Mexico State Engineers Office and the United States Geological Survey data base (reference *Table 1*).

2.9 Area Water Wells

There are three public water supply wells located within a 1,000-foot radius of the release site. In addition, there are no private, domestic fresh water wells or springs used by less than five households for domestic or stock watering purposes located within a 200-foot radius of the release site (reference Table 1 and Figure 2).

2.10 Area Surface Water Features

There are no surface water features within a 1,000 foot radius of the release site (reference Figure 2).



3.0 NMOCD SITE RANKING

Contaminant delineation and remedial work done at this site indicate chemical parameters of the soil and physical parameters of the groundwater were characterized consistent with the characterization and remediation/abatement goals and objectives set forth in the following New Mexico Oil Conservation Division (NMOCD) publications:

- Guidelines for Remediation of Leaks, Spills and Releases (August 13, 1993)
- Unlined Surface Impoundment Closure Guidelines (February, 1993)
- Pit and Below-Grade Tank Guidelines (November, 2004)

Acceptable thresholds for contaminants/constituents of concern (CoC) were determined based on the NMOCD Ranking Criteria as follows:

- Depth to Groundwater (i.e., distance from the lower most acceptable concentration to ground-
- Wellhead Protection Area (i.e., distance from fresh water supply wells);
- Distance to Surface Water Body (i.e., horizontal distance to all down gradient surface water bodies).

Based on the proximity of the site to protectable area water wells, surface water bodies, and depth to groundwater from the lower most contamination, the NMOCD ranking score for the site is 30 points with the soil remedial goals highlighted in the Site Ranking table presented below:

1. GROUND	WATER	2. WELLHEAD	PROTECTION AREA	3. DISTANCE TO SURFACE WATER
Depth to GW <50 fe	et: 20 points	If <1 000' from water	er source, or <200' from	<200 horizontal feet: <i>0 points</i>
Depth to GW 50 to 9	99 feet:		rater source: 20 points	200-1,000 horizontal feet: 10 points
Depth to GW >100 f	eet: 0 points		er source, or >200' from vater source: 0 points	>1,000 horizontal feet: <i>0 points</i>
Site Rank (1+2+3) =	10 +20 + 0 = 3	30 points		
	Total Site	Ranking Score and	Acceptable Remedial Goa	I Concentrations
Parameter	20 (or >	10	0
Benzene ¹	10 p	ppm	10 ppm	10 ppm
BTEX1	50 p	pm	50 ppm	50 ppm
TPH	100	ppm	1,000 ppm	5,000 ppm

A field soil vapor headspace measurement of 100 ppm can be substituted in lieu of laboratory analyses for benzene and BTEX.



	D
	Date excavated: November 11, 2005 through December 14, 2005
	Total volume removed: ~2,860 cubic yards
4.2	Indicated soil treatment type: Disposal Land Treatement Composting/Biopiling Other ()



5.0 SAMPLING INFORMATION

Briefly describe the field screening methods used to distinguish contaminated from uncontaminated soil.

Organic Vapor Concentrations – A portion of each soil sample was placed in a polyethylene bag and allowed sufficient time and temperature for organic vapors to volatilize. The detector portion of a Photoionization Detector equipped with a 10.6 electron volt lamp was placed in the bag to analyze organic vapor concentration.

Chloride Concentrations - A La Motte Chloride Test Kit was utilized for field chloride concentration analyses.

5.2 Briefly describe the soil analytical sampling and handling procedures used.

Soil samples were collected during the advancement of the soil borings utilizing a hollow core drill. Soil samples collected from the excavation were collected utilizing hand and/or mechanical excavation equipment to gather the sample from at least 6-inches below/within the surface of the excavation.

Upon collection of each sample, a portion was immediately placed in a laboratory provided container, labeled and set on ice for transport to an independent laboratory for quantification of total petroleum hydrocarbons (TPH), benzene, toluene, ethylbenzene and total xylenes (BTEX), sulfates and/or chloride concentrations. The remaining portion of each sample was utilized to conduct field analyses.

5.3 Discuss sample locations and provide rationale for their locations.

On November 10, 2005, a series of 3 soil borings (SB-1, SB-2 and SB-3) were advanced within the tank battery area. A soil sample was collected at 2 and 5-ft bgs and at 5-ft intervals thereafter. Soil borings were advanced until two consecutive field chloride anlyses indicated concentrations were below the NMWQCC groundwater standard of 250 mg/L. Maximum depths of soil borings were 30-ft bgs for SB-1, 15-ft bgs for SB-2 and 20-ft bgs for SB-3. Soil boring locations were chosen to delineate the vertical extent of impacted soil while providing adequate distance between soil borings (reference *Table 2* and *Figure 4*).

On November 29, 2005, after initial excavation activities, soil samples were collected from the excavation sidewalls and floor. Soil samples were collected from the excavation floor in 8 locations (BH-1 through BH-8) and from the sidewalls in 12 locations (SW-1 through SW-12). Soil sample depths from the excavation floor ranged from 6 to 12-ft bgs and from the excavation sidewalls ranged from 1 to 7-ft bgs (reference *Table 3* and *Figure 4*). Soil sample locations were chosen to provide the best representative example of soil within the excavation floor and sidewalls.

Based on analytical results, excavation activities resumed. Soil samples were collected on December 14 and 15, 2005 from the excavation sidewalls in 6 locations (SP-1 through SP-6). Sampling depths ranged from 1 to 3-ft bgs. Based on laboratory analytical data from the previous sampling event, excavation activities resumed in the areas of SP-1 through SP-5. Soil sampling locations SP-1 through SP-5 were sampled on December 20, 2005 (reference Table 3 and Figure 5). Soil sample locations were chosen to provide the best representative example of soil within the excavation sidewalls.



6.0 ANALYTICAL RESULTS

6.1 Describe the vertical and horizontal extent and magnitude of soil contamination.

Laboratory analyses of soil samples collected during the advancement of soil boring SB-1 indicated TPH concentrations in excess of the NMOCD remedial threshold of 100 mg/Kg existed to 5-ft bgs and again at 20-ft bgs. BTEX constituent concentrations above the NMOCD remedial threshold of 50 mg/Kg were limited to 2-ft bgs. Reported chloride concentrations were above the NMWQCC groundwater standard of 250 mg/L to 20-ft bgs. Laboratory analyses indicated all other analytes and sampling intervals to total depth (TD) of 30-ft bgs were below each analytes respective NMOCD remedial threshold and/or NMWQCC groundwater standard (reference *Table 2* and *Figure 4*).

Laboratory analyses of soil samples collected during the advancement of soil boring SB-2 indicated TPH concentrations in excess of the NMOCD remedial threshold of 100 mg/Kg existed at 2-ft bgs. Reported chloride concentrations were above the NMWQCC groundwater standard of 250 mg/L to 5-ft bgs and sulfate concentrations above the NMWQCC groundwater standard of 600 mg/L at 5-ft bgs. Laboratory analyses indicated all other analytes and sampling intervals to TD 15-ft bgs were below each analytes respective NMOCD remedial threshold and/or NMWQCC groundwater standard (reference *Table 2* and *Figure 4*).

Laboratory analyses of soil samples collected during the advancement of soil boring SB-3 indicated TPH concentrations in excess of the NMOCD remedial threshold of 100 mg/Kg existed at 2-ft bgs. Reported chloride concentrations were above the NMWQCC groundwater standard of 250 mg/L to 10-ft bgs. Laboratory analyses indicated all other analytes and sampling intervals to TD of 20-ft bgs were below each analytes respective NMOCD remedial threshold and/or NMWQCC groundwater standard (reference *Table 2* and *Figure 4*).

Laboratory analyses of soil samples collected on November 29, 2005, after initial excavation activities, from the excavation floor (i.e., BH-1 through BH-8) indicated chloride concentrations, with the exception of soil sample BH-4, were in excess of the NMQCC groundwater standard of 250 mg/L. Laboratory analyses indicated all other analytes and sampling locations were below each analytes respective NMOCD remedial threshold and/or NMWQCC groundwater standard (reference *Table 3* and *Figure 4*).

Laboratory analyses of soil samples collected on November 29, 2005, after initial excavation activities, from the excavation sidewalls (i.e., SW-1 through SW-12) indicated benzene, BTEX and TPH concentrations were in excess of the NMOCD remedial threshold in sample SW-1. Reported TPH and chloride concentrations in sample SW-2 were in excess of the NMOCD TPH remedial threshold and NMWQCC groundwater standard of 250 mg/L. Chloride concentrations in soil samples SW-3, SW-5, SW-7, SW-8, SW-11 and SW-12 were reported above the NMWQCC groundwater standard of 250 mg/L. Additionally, the reported sulfate concentration in sample SW-10 was above the groundwater standard of 600 mg/L. Laboratory analyses of all other analytes and sample locations were below each analytes respective NMOCD remedial threshold and/or NMWQCC groundwater standard (reference *Table 3* and *Figure 4*).

After additional excavation activities to address contaminants detected during the initial sampling activities, soil samples were collected on December 14 and 15, 2005 from the excavation sidewalls (i.e., SP-1 through SP-6) indicated chloride concentrations in locations SP-1, SP-2, SP-3, SP-4 and SP-5 were in excess of the NMWQCC groundwater standard of 250 mg/L. Chloride concentrations in soil sample SP-6 were reported at 196 mg/Kg, below the NMWQCC groundwater standard. Reported TPH, BTEX constituent and sulfate



concentrations in soil samples SP-1 through SP-5 were ND at or above laboratory MDL (reference *Table 3* and *Figure 5*).

After additional excavation of chloride impacted southwestern sidewalls, samples were collected on December 20, 2005 from sample locations SP-1 through SP-5. Laboratory analyses indicated chloride concentrations in SP-1, SP-2, SP-3 and SP-5 ranged from 288 to 1,663 mg/Kg, above the NMWQCC groundwater standard of 250 mg/L. Reported chloride concentrations in soil sample SP-4 were reported at 160 mg/Kg, below the NMWQCC groundwater standard (reference *Table 3* and *Figure 5*).

6.2 Is surface soil contamination present at the site (i.e., soil in the uppermost two feet that is visibly stained, contaminated at greater than 10 ppm (PID) or hydrocarbon saturated)?

If yes, attach a site map identifying extent(s) of surface soil contamination.

Visibly stained soil has been excavated and transported Saunders Land Farm and Sundance services for treatment and/or disposal.

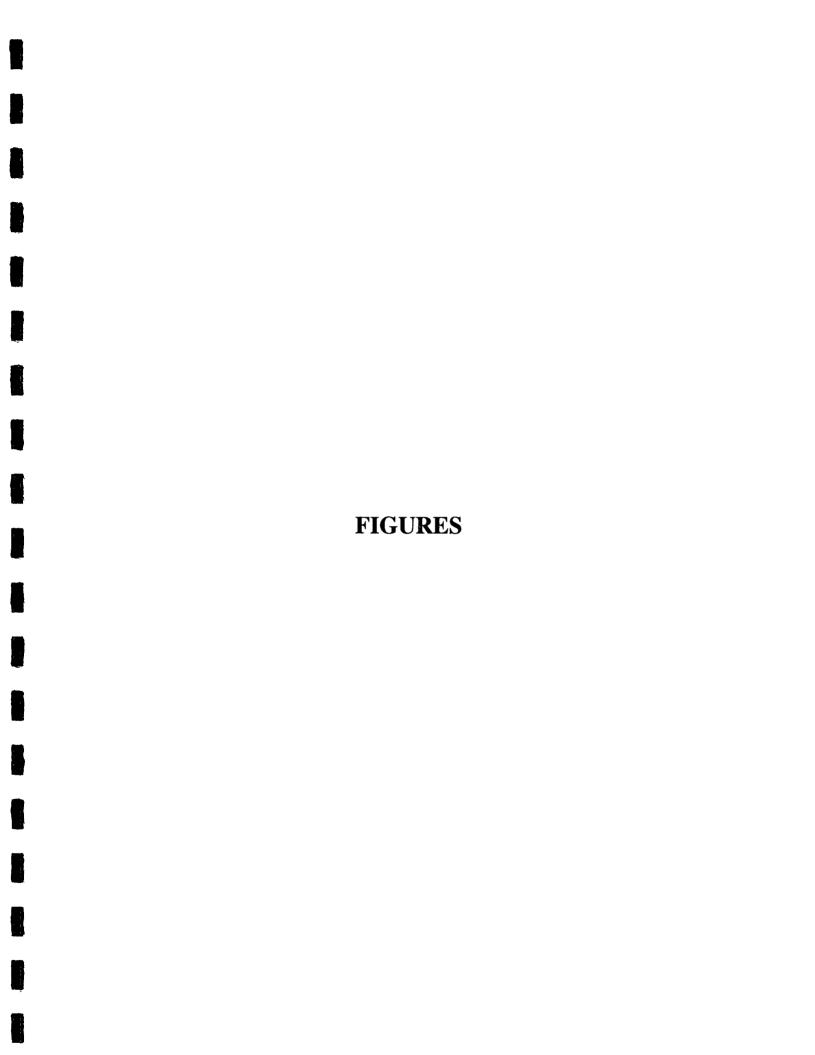


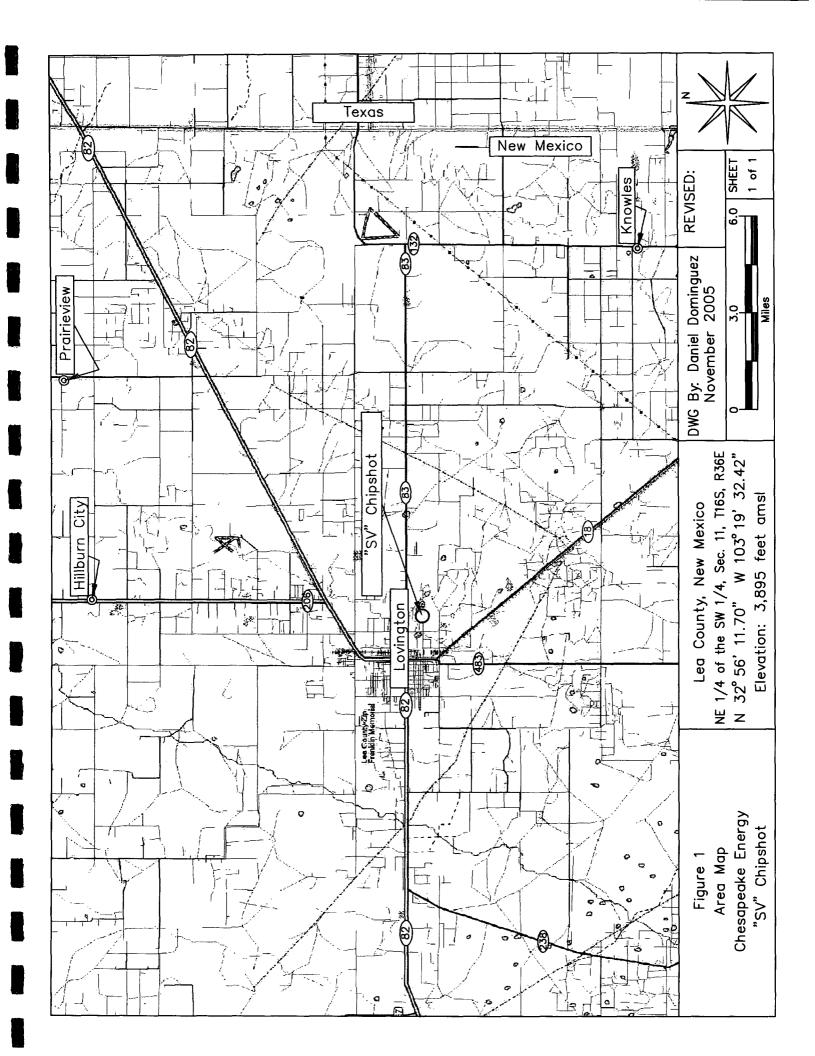
7.0 <u>DISCUSSION</u>

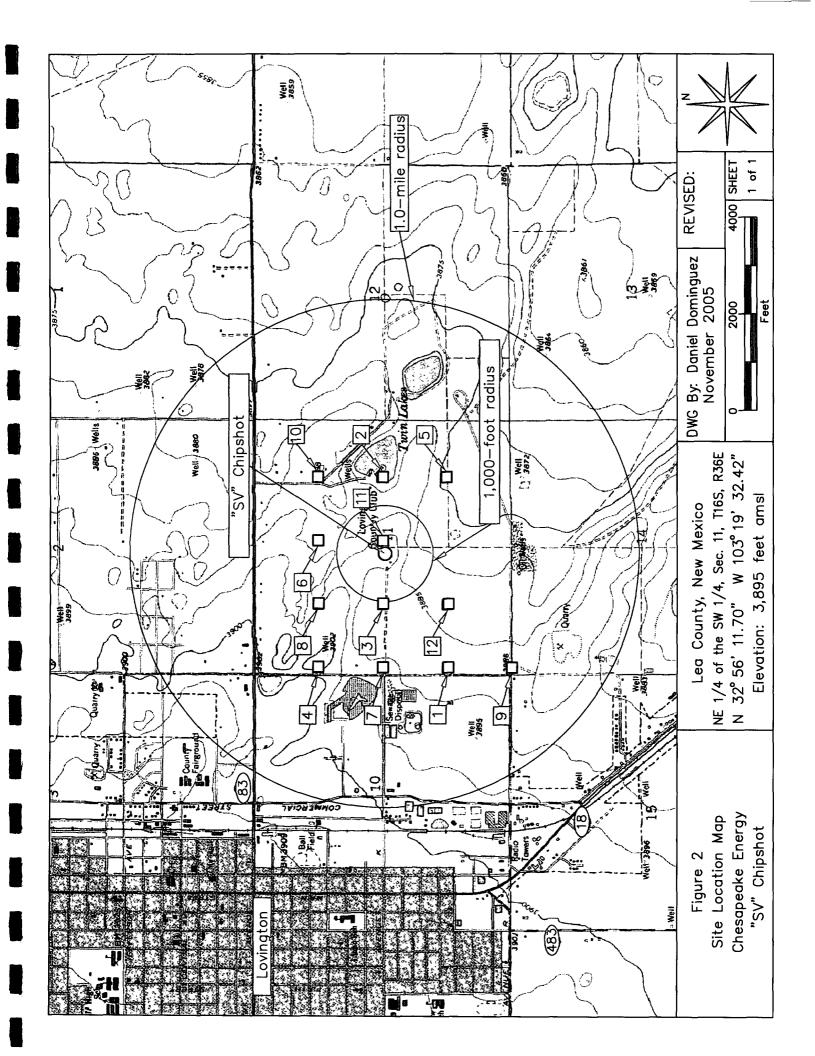
7.1 Discuss the risks associated with the remaining soil contamination:

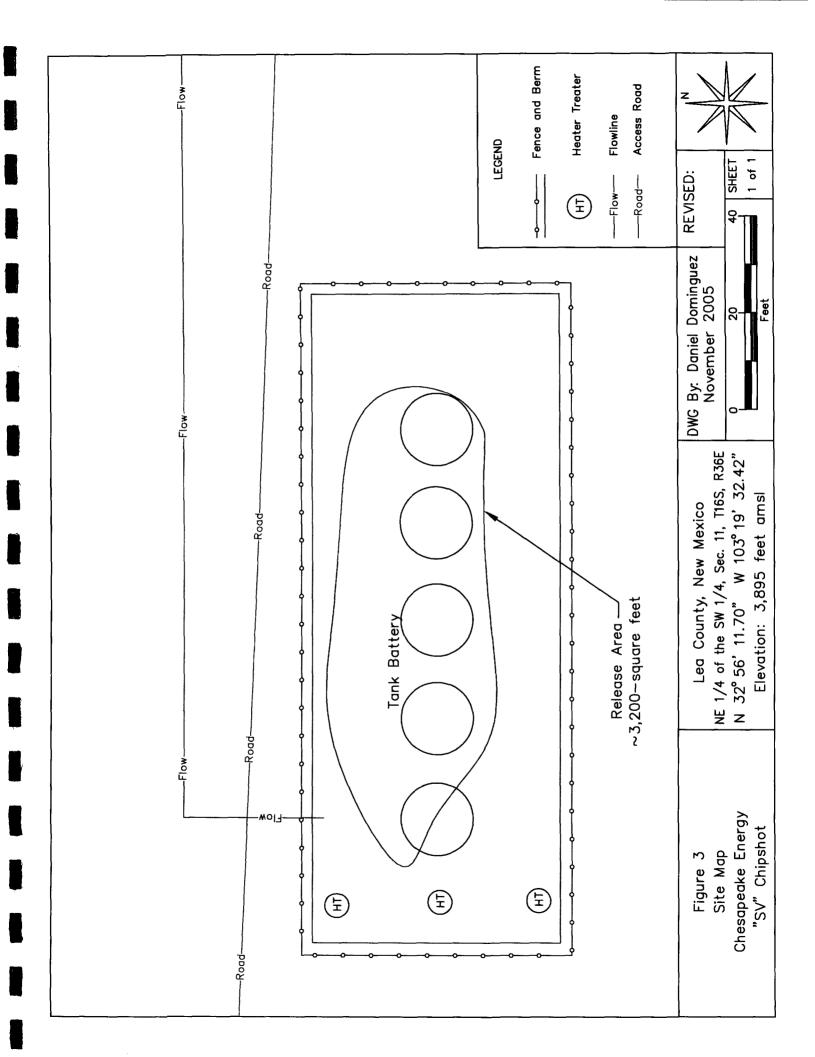
Chloride impacted soil above NMWQCC chloride groundwater standards may be capable of impacting local groundwater. Based on depth to groundwater (~77-ft bgs), an impermeable clay barrier was placed in the excavation floor to isolate residual chloride from downward migration.

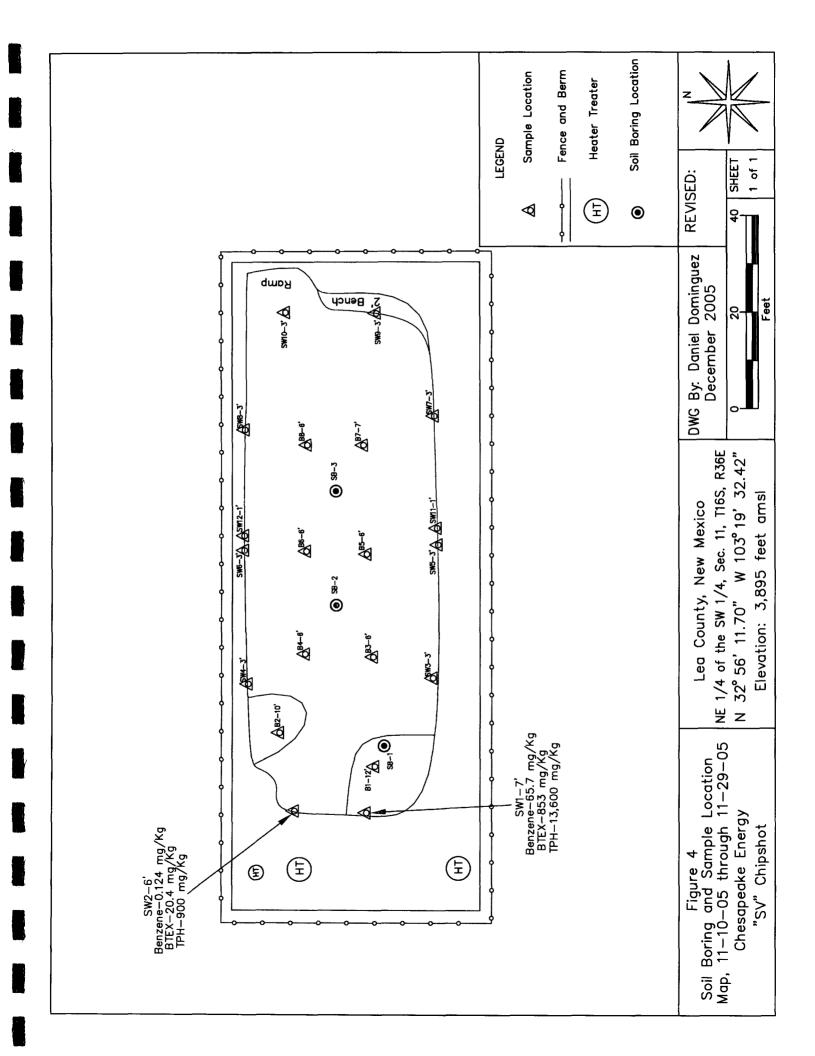
- 7.2 Discuss the risks associated with the impacted groundwater: NA
- 7.3 Discuss other concerns not mentioned above: NA

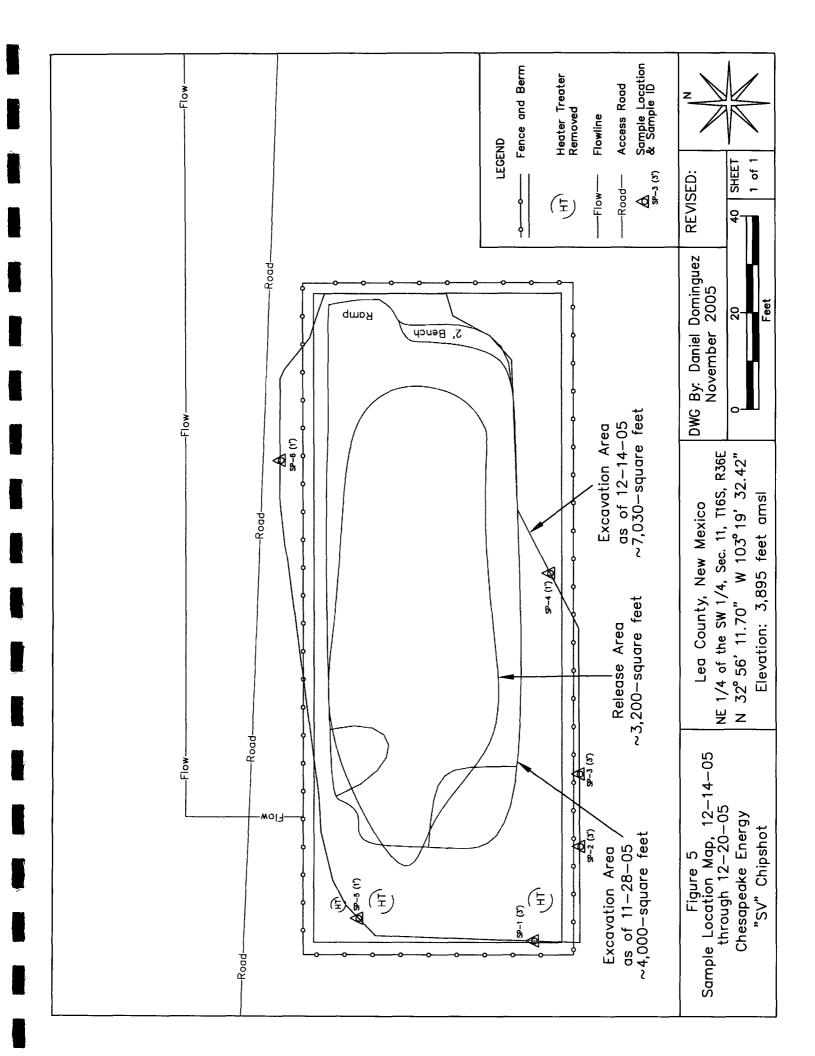












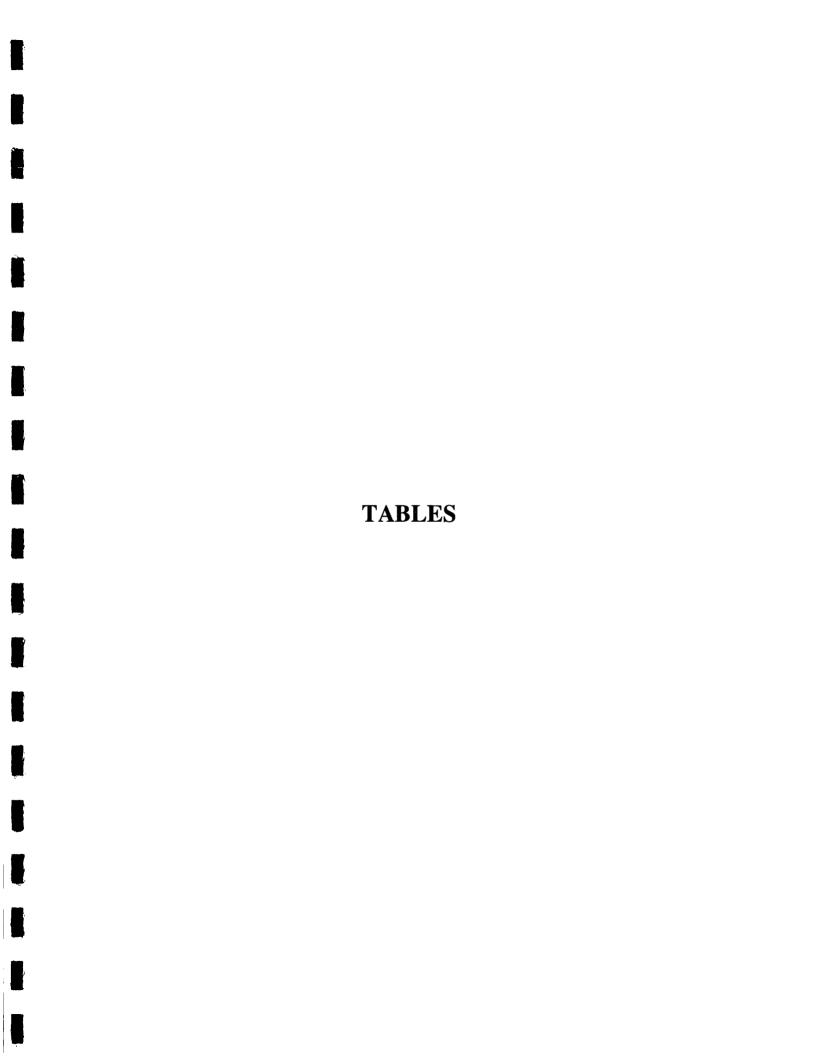


TABLE 1

Well Data

Chesapeake Energy - "SV" Chipshot (Ref. # 160037)

Well Number 00265 00265 07741 00307 00307 EXPLORE 00307 S 01984 APPRO 01984 APPRO 04080 04080 04261 04261 04261 04261 05517	Diversion ^A 16.2 450 3 435.8 3	Owner CITY OF LOVINGTON CITY OF LOVINGTON HULDA R. HEIDEL LOVINGTON COUNTRY CLUB		Twsp R	Rng Se	b b b oes	Latitude	Longitude	Date Measured	Surface Elevation ^B	Well I Depth	Depth to Water
5 5 1 7 EXPLORE 7 5 4 4 APPRO 0 0 0 0 1 1 1 APPRO 1 1 1 1 1 1 1 1 1 1 1 1 1	16.2 450 3 435.8 3		\dashv									
5 1 7 7 EXPLORE 7 5 4 4 4 APPRO 0 0 0 APPRO 1 1 APPRO 7 7 7 7 7 7 7 7 7 7 7 7 7	16.2 450 3 435.8 3		H		-						(ft bgs)	(ft bgs)
5 7 7 7 EXPLORE 7 S 4 APPRO 0 0 APPRO 1.1 APPRO	450 3 435.8 3		\dashv	Н	36E 11	311 N	N 32° 55' 58.89"	W 103° 20' 0.23"		3,891		
1 7 EXPLORE 7 S 4 4 4 APPRO 0 0 APPRO 1 APPRO	3 435.8		_	16S 3	36E 11	311 N	55'	W 103° 20' 0.23"		3,891		
7 EXPLORE 7 S 4 4 4 APPRO 0 APPRO 1 APPRO 1 APPRO 1 APPRO 1 APPRO	3		DOM 1	168 3	36E 11	312	N 32° 55' 58.89"	W 103° 20' 0.23"	14-Sep-77	3,891	142	78
7 EXPLORE 7 S 4 APPRO 0 APPRO 1 APPRO 1 APPRO 1 APPRO 1 APPRO 7	3		IRR	165 3	36E 11	241 N	N 32° 56' 12.16"	W 103° 19' 13.79"		3,881	100	
7 S 4 APPRO 0 0 APPRO 1 APPRO 7	3			165 3	36E 11	243 N	N 32° 56' 12.16"	W 103° 19' 13.79"	27-Mar-02	3,881	205	
4 APPRO 0 0 APPRO 1 APPRO 7	3			├	36E 11	243 N	N 32° 56' 12.16"	W 103° 19' 13.79"	27-Mar-02	3,881	205	
4 APPRO 0 0 APPRO 1 APPRO 7	3	J. T. EASLEY	DOM	168 3	36E 11	244 N	N 32° 56' 12.16"	W 103° 19' 13.79"	28-Apr-53	3,881	95	55
0 0 APPRO 1 1 APPRO 7	3		_	168 3	36E 11	244 N	N 32° 56' 12.16"	W 103° 19' 13.79"	28-Apr-53	3,881	95	55
0 APPRO 1 1 APPRO 7		ROBERT W. WARD	DOM 1	165 3	36E 11	П	N 32° 56' 12.16"	W 103° 19' 13.79"	04-Mar-59	3,881	103	75
			Ш	-	36E 11	\Box	N 32° 56' 12.16"	W 103° 19' 13.79"	04-Mar-59	3,881	103	75
	3	JERRY STOLTZ	DOM 1		36E 11		N 32° 56' 12.16"		07-Aug-59	3,881	0=	46
7			Ц	\dashv	36E 11	4	N 32° 56' 12.16"	W 103° 19' 13.79"	07-Aug-59	3,881	011	4
7	3			-	36E 11		N 32° 56' 12.16"	W 103° 19' 13.79"	20-Jan-66	3,881	110	29
_	3		_	\dashv	6E 11		N 32° 56' 12.16"	W 103° 19' 13.79"	08-Mar-66	3,881	8	65
3 EXP	0	A.T. MR. BINTZ			6E 11		N 32° 56' 12.16"	W 103° 19' 13.79"		3,881		
2 EXP	0	BROOKS BLAIR	_		6E 11		V 32° 56' 12.16"	W 103° 19' 13.79"		3,881		
3	3	RONALD O. CUNNINGHAM		Н	6E 11	242 N	V 32° 56' 12.16"	W 103° 19' 13.79"	30-Jul-82	3,881		71
5	3	JERRY ROTAN	DOM	_	6E 11	2.4 N	V 32° 56' 12.16"	W 103° 19' 13.79"	20-Apr-84	3,881		
Ţ	3	LARRY HODGE		Н	6E 11	24 N	V 32° 56' 12.16"	W 103° 19' 13.79"	12-May-84	3,881	110	72
8	3	WILLIAM PALMER	ш	\vdash	9E 11	243 N	N 32° 56' 12.16"	W 103° 19' 13.79"	04-Mar-03	3,881	156	
7 APPRO	3	COMER G. HUDGENS	ш	\vdash	6E 11	14 N	N 32° 56' 12.06"	W 103° 19' 44.75"		3,893		
4	3	R.H. & PAINTER, C.B. CULLOM	Ш	├	11 3 9	111	V 32° 56' 25.14"	W 103° 20' 0.22"		3,904		
4 APPRO			_	┝	6E 11	111	V 32° 56' 25.14"	W 103° 20' 0.22"		3,904		
4	3	HARVEY BLANCET	DOM 1	⊢	6E 11	111	v 32° 56' 25.14"	W 103° 20' 0.22"	09-8nR-90	3,904	100	74
5	3	JOE MATLOCK	⊢	Н	6E 11	11	99	W 103° 20' 0.22"	10-Aug-65	3,904	115	80
8	3	CAPROCK PIPE & SUPPLY, LP	┝	_	6E 11	111	99			3,904		
2	3	ERNEST MAHAN	DOM	Н	11 E	422 N	V 32° 55' 59.03"	W 103° 19' 13.80"	05-Mar-57	3,878	011	89
2 APPRO			Щ	-	6E 11	422 N	V 32° 55' 59.03"	W 103° 19' 13.80"	05-Mar-57	3,878	110	89
3	3	LOVINGTON COUNTY CLUB	-	-	6E 11	422 N	V 32° 55' 59.03"	W 103° 19' 13.80"	04-Jun-81	3,878	120	72
6.	3	DAVID T. CAUDLE	Щ	_	6E 11	214 N	V 32° 56' 25.23"	103° 19′	19-Sep-58	3,894	95	65
9 APPRO				⊣	6E 11	4	જ્ઞ	103° 19'	19-Sep-58	3,894	95	65
5	3	J.M. DENTON	STK 1		6E 11		V 32° 56' 25.23"	W 103° 19' 29.26"	28-Sep-63	3,894	001	85
7	3	Y.N. CAMPBELL	ш	-	E 11	2	V 32° 56' 25.23"	W 103° 19' 29.26"	16-Jan-65	3,894	95	75
8	3	W. W. SHUMAN		-	6E 11	211 N	N 32° 56' 25.23"	W 103° 19' 29.26"	08-Oct-69	3,894	95	70
2	3	OLEN L. ELLIOTT	Ц	-	9E [11	212 N	V 32° 56' 25.23"	W 103° 19' 29.26"	28-Apr-00	3,894	122	08
4	3	BRUCE KENNEDY	_	\vdash	6E 11	2 I	V 32° 56' 25.23"	W 103° 19' 29.26"	17-Sep-78	3,894	120	85
2	3	DON ALLEN		-	6E 11	214 N	N 32° 56' 25.23"	W 103° 19' 29.26"	19-Feb-82	3,894	124	70
3	3	Α	Н	\dashv	6E 11	213 N	N 32° 56' 25.23"	W 103° 19' 29.26"	10-Apr-83	3,894	175	95
4	3	DAVID PEPPER	Ц	Н	E [11]	213 N	N 32° 56' 25.23"	W 103° 19' 29.26"	19-Jan-83	3,894	135	65
4 CLW			ш	\dashv	9E 11	3	V 32° 56' 25.23"		23-Aug-84	3,894	135	65
5		DAVID SONNENBERG	_	\dashv	6E 11	3	18	W 103° 19' 29.26"	29-Jun-83	3,894	135	96
8	3	BARRY LOVEJOY	— €	⊣	6E 11	13	S)	W 103° 19' 29.26"	13-Apr-83	3,894	138	90
supromission and a language and a language and a language and the language and the language and a language and	05857 05857 05863 EXP 07992 EXP 08783 09445 09471 11428 01427 APRO 01524 APRO 01524 APRO 04334 05685 11538 03432 03432 03432 03432 03432 03432 03432 03432 03432 03999 03999 03999 03999 APRO 08755 09557 09554 09054 09054 09054 09059		S NOTATION OF SOUTHWESTERN BUILDERS 0 A.T. MR. BINTZ 0 BROOKS BLARK 3 JERRY ROTAN 3 JERRY HODGE 3 LARRY HODGE 3 WILLIAM PALMER 0 3 COMER G. HUDGENS 3 WILLIAM PALMER 4 ARVEY BLANCET 5 JOE MATLOCK 5 JARRY HODGE 6 S LOVINGTON COUNTY CLUB 7 AND COUNTY CLUB 8 JARNEST MAHAN 9 JAN DENTON 1 JAN DENTON 1 JAN DENTON 1 JAN DENTON 2 JAN DENTON 3 JAN DENTON 4 AND SONNENBERG 5 DAVID SONNENBERG 6 JAN DEPERR 7 JAN DENTON 8 JAN DEPERR 9 JAN DENTON 1 JAN DENTON 1 JAN DENTON 1 JAN DENTON 2 JAN DENTON 3 JAN DENTON 4 JAN DENTON 5 JAN DEPERR 6 JAN DENTON 7 JAN DENTON 8 JAN DENTON 9 JAN DENTON 9 JAN DENTON 1 JAN DENTON 1 JAN DENTON 1 JAN DENTON 1 JAN DENTON 2 JAN DENTON 3 JAN DENTON 4 JAN DENTON 5 JAN DENTON 6 JAN DENTON 7 JAN DENTON 8 JAN DENTON 9 JAN DENTON 9 JAN DENTON 1 JAN DENTON 1 JAN DENTON 1 JAN DENTON 1 JAN DENTON 2 JAN DENTON 3 JAN DENTON 4 JAN DENTON 5 JAN DENTON 6 JAN DENTON 7 JAN DENTON 8 JAN DENTON 9 JAN DENTON	3 INC. SOUTHWESTERN BUILDERS DOM 0 A.T. MR. BINTZ DOM 0 BROOKS BLAIR DOM 3 RONALD O. CUNNINGHAM STK 3 JERRY ROTAN DOM 3 LARRY HODGE DOM 3 WILLIAM PALMER DOM 3 COMER G. HUDGENS DOM 3 WILLIAM PALMER DOM 3 COMER G. HUDGENS DOM 3 LARRY BLANCET DOM 3 JOE MATLOCK STK 3 JOE MATLOCK STR 3 JOE MATLOCK STR 4 STR STR STR 5 JOE MATLOCK DOM 6 J.M. DENTON COUNTY CLUB DOM 7 J.M. DENTON STR 8 J.M. DENTON DOM 9 J.M. DENTON DOM 1 JOE VALENCIA DOM 1 JOSE VALENCIA DOM 3 JOSE VALENCIA DOM 3 JOSE VALENCIA DOM 3 JAVID SONNENBERG DOM 3 BARRY LOVEJOY DOM 1 BARRY LOVEL DOM 1 BARRY LOVEL	S	1	3 NCINCED CLONGERS DOM 165 36E 11 24 0 ATT. MR. BINTZ DOM 165 36E 11 24 1 0 BROOKS BLAIR DOM 165 36E 11 24 3 RONALD O. CUNNINGHAM STK 165 36E 11 24 3 LARRY ROTAN DOM 165 36E 11 24 3 LARRY HODGE DOM 165 36E 11 24 3 LARRY HODGE DOM 165 36E 11 24 3 LARRY HODGE DOM 165 36E 11 11 0 3 COMER G. HUDGENS DOM 165 36E 11 11 0 3 COMER G. HUDGENS DOM 165 36E 11 11 0 3 CAPROCK PIPE & SUPPLY, LP SAN 165 36E 11 11 1 3 CAPROCK PIPE & SUPPLY, LP SAN 165 36E 11 21 1 3 CAPROCK PIPE & SUPPLY, LP SAN 165 36E 11 21 1 3 LOVINGTON COUNTY CLUB DOM 165 36E 11 21 1 3 LOVINGTON COUNTY CLUB DOM 165 36E 11 21 1 3 LOVINGTON COUNTY CLUB DOM 165 36E 11 21 1 3 LOVINGTON COUNTY CLUB DOM 165 36E 11 21 1 3 LOVINGTON COUNTY CLUB DOM 165 36E 11 21 1 3 LOVINGTON COUNTY CLUB DOM 165 36E 11 21 1 3 LOVINGTON COUNTY CLUB DOM 165 36E 11 21 1 3 LOVINGTON COUNTY CLUB DOM 165 36E 11 21 1 3 LOVINGTON COUNTY CLUB DOM 165 36E 11 21 1 3 LOVINGTON COUNTY CLUB DOM 165 36E 11 21 1 3 LOVINGTON COUNTY CLUB DOM 165 36E 11 21 1 3 LONINGTON COUNTY CLUB DOM 165 36E 11 21 1 3 LONINGTON COUNTY CLUB DOM 165 36E 11 21 1 3 LONINGTON COUNTY CLUB DOM 165 36E 11 21 1 3 LONINGTON COUNTY CLUB DOM 165 36E 11 21 1 1 1 1 1 1 1 1 1 1	3 NCONTRINGORNE DOM 168 36E 11 24 N 32 56 10 24 N 32 10 24 N 32 10 24 N 32	3 NC. SOLTHWESTERN BUILDERS DOM 16S 36E 11 24 N 32° 56 12.16" 0 A.T. MR. BINTZ DOM 16S 36E 11 24 N 32° 56 12.16" 1 1 2 N 32° 56 12.16" 1 2 3 ERONGS BLAIR DOM 16S 36E 11 24 N 32° 56 12.16" 2 3 ROMALD O. CUNNINGHAM STR 16S 36E 11 24 N 32° 56 12.16" 3 LARRY HODGE DOM 16S 36E 11 24 N 32° 56 12.16" 3 LARRY HODGE DOM 16S 36E 11 24 N 32° 56 12.16" 4 3 LARRY HODGE DOM 16S 36E 11 24 N 32° 56 12.16" 5 ALLIAM PALMER DOM 16S 36E 11 24 N 32° 56 12.16" 6 3 COMER G. HUDGENS DOM 16S 36E 11 11 N 32° 56 12.16" 9 ALANEY BLANCET DOM 16S 36E 11 11 N 32° 56 12.14" 1 3 JOREMATIJOCK STR 16S 36E 11 11 N 32° 56 13.14" 1 3 ARLIAGE & SUPPLY, LP SAN 16S 36E 11 11 N 32° 56 13.14" 1 3 ARLIAGE & SUPPLY, LP SAN 16S 36E 11 11 N 32° 56 23.14" 1 3 ARLIAGE & SUPPLY BLANCET DOM 16S 36E 11 11 N 32° 56 23.14" 2 3 ARLIAGE & SUPPLY LP SAN 16S 36E 11 21 N 32° 56 23.23" 3 AVIDT. CAUDLE DOM 16S 36E 11 21 N 32° 56 23.23" 3 AVIDT. CAUDLE DOM 16S 36E 11 21 N 32° 56 23.23" 3 AVIDT. CAUDLE DOM 16S 36E 11 21 N 32° 56 23.23" 3 AVIDT. CAUDLE DOM 16S 36E 11 21 N 32° 56 23.23" 3 AVIDT. 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HUDGENS DOM 163 36E 11 14 N 32° 56 12.16 W 103° 19 13.79° 6 3 ARVEY BLANCET DOM 163 36E 11 11 N 32° 56 12.14 W 103° 20 12.27° 7 3 ARROY RIBANCET DOM 163 36E 11 11 N 32° 56 13.49 W 103° 19 13.79° 8 3 ARROY ROLONTY CLUB DOM 163 36E 11 11 N 32° 56 25.14 W 103° 20 0.22° 9 3 CAPROCK PIPE & SUPPLY, LP SAN 163 36E 11 11 N 32° 56 25.14 W 103° 20 0.22° 9 4 ARVEO RIBANCET DOM 163 36E 11 11 N 32° 56 25.14 W 103° 20 0.22° 10 A ARVEO RIBANCET DOM 163 36E 11 11 N 32° 56 25.14 W 103° 20 0.22° 11 A ARVEO RIBANCET DOM 163 36E 11 11 N 32° 56 25.14 W 103° 19 19.380° 12 A A A A A A A A A	3 INCLADE OF CONTRINGATION CONTRICT CONTRICT	3 NOTALO CLONINGHAM 163 56E 11 24 N32° 56 12.16° W 103° 19° 13.79° 36.54 3881

TABLE 1

Well Data

Chesapeake Energy - "SV" Chipshot (Ref. # 160037)

Ref #	Well Number	Diversion ^A	Owner	Use	Twsp	Rng	Sec d d d	Latitude	Longitude	Date Measured	Surface Elevation ^B	Well Depth	Depth to Water
								7			_	(ft bgs)	(ft bgs)
	L 09330	3	CHARLIE PRICE	MOG	168	36E 1	1 213	N 32° 56' 25.23"	W 103° 19' 29.26"	21-Sep-83	3,894	140	06
	L 09331	3	TACK BALDWIN	DOM	168	36E 1	1 213	N 32° 56' 25.23"	W 103° 19' 29.26"	21-Sep-83	3,894	140	90
	L 09340	3	ROBERT C. JR. DUNN	DOM	S91	36E 1	1 213	N 32° 56' 25.23"	W 103° 19' 29.26"	05-Oct-83	3,894	150	90
9	L 09492	3	HUBERT CROUCH JR.	DOM	S91	36E 1	1 213	N 32° 56' 25.23"	W 103° 19' 29.26"	30-May-84	3,894	135	65
	L 09653	3	RUSS CHANCELLOR	DOM	S91	36E 1	1 2 1	N 32° 56' 25.23"	W 103° 19' 29.26"	16-Apr-85	3,894	135	65
	L 09746	3	DENNIES P. BAGAN	DOM	S91	36E 1	1 2 1	N 32° 56' 25.23"	W 103° 19' 29.26"	24-Sep-85	3,894	157	70
	L 10354	3	T.D.L. CONSTRUCTION	DOM	168	36E 1	1 213	N 32° 56' 25.23"	W 103° 19' 29.26"	10-Oct-93	3,894	120	63
	L 04005	3	CHARLES L, CAMPBELL	DOM	S91	36E 1	1 1	N 32° 56′ 12.01″	W 103° 20' 0.22"	20-Sep-58	3,894	95	75
7	L 04005 APPRO				S91	36E 1		N 32° 56' 12.01"	W 103° 20' 0.22"	20-Sep-58	3,894	95	75
	L 06102	3	RAUL CANUL	STK	168	36E 1	1 1	N 32° 56' 12.01"	W 103° 20' 0.22"	02-Mar-67	3,894	100	75
	L 04060	3	IRA TERRILL	DOM	S91	36E 1	11 121	N 32° 56' 25.19"	W 103° 19' 44.74"		3,899		
	L 04060 APPRO EXP				S91	36E 1	121	N 32° 56' 25.19"	W 103° 19' 44.74"		3,899		
	L 04099	3	H. H. CALDWELL	DOM	168	36E 1	1 1 2 2	N 32° 56' 25.19"	W 103° 19' 44.74"	05-Apr-59	3,899	95	74
۰	L 04099 APPRO				S91	36E 1	1122	N 32° 56' 25.19"	W 103° 19' 44.74"	05-Apr-59	3,899	95	74
°	L 04739	3	IRA E. TERRILL	DOM	S91	36E 1	1121	N 32° 56' 25.19"	W 103° 19' 44.74"		3,899		
	L 04739 APPRO EXP				S91	36E	121	N 32° 56' 25.19"	W 103° 19′ 44.74″		3,899		
_	L 05808	3	WINDFORD CARLILE	STK	S91	36E 1	1122	N 32° 56' 25.19"	W 103° 19' 44.74"	21-Nov-65	3,899	116	85
	L 11540	3	CAPROCK PIPE & SUPPLY, LP	SAN	168	36E 1	1 1 2 1	N 32° 56' 25.19"	W 103° 19' 44.74"		3,899		
	L 04800	3	LOYD CROW	MOG	168	36E I	1	N 32° 55′ 45.77″	W 103° 20' 0.23"		3,891		
٨	L 04800 APPRO EXP				168	36E 1	1	N 32° 55' 45.77"	W 103° 20' 0.23"		3,891		
	L 05182	3	LEA COUNTY BROADCASTING CO.	DOM	168	36E 1	1 223	N 32° 56' 25.28"	W 103° 19' 13.79"	19-Jul-63	3,895	110	75
9	T 06990 EXP	0	JOHN SANDERS	DOM	S91	36E 1	1 22	N 32° 56' 25.28"	W 103° 19' 13.79"		3,895		
21	L 06836 EXP	0	JOE ANDREWS	DOM	S91	36E 1	1 222	N 32° 56' 25.28"	W 103° 19' 13.79"		3,895		
	L 11693	3	E.M. MYERS, JR.	DOM	S91	36E 1	1 22	N 32° 56' 25.28"	W 103° 19' 13.79"		3,895	150	
	L 05922	3	SOUTHWESTERN BUILDERS	DOM	S91	36E 1	1 2	N 32° 56' 12.11"	W 103° 19' 29.27"	05-May-66	3,894	105	70
=	T 09389	3	ALVIN SPARKS	DOM	168	36E [1	1 2	N 32° 56' 12.11"	W 103° 19' 29.27"	13-Jan-84	3,894	110	
	L 11093	3	TIM OR SHARLA BOARD	DOM	168	36E [1	1 2	N 32° 56' 12.11"	W 103° 19′ 29.27″	13-Jul-00	3,894	120	70
12	L 07414	0	JAMES R. YATES	DOM	168	36E [1	1 323	N 32° 55' 58.94"	W 103° 19' 44.75"		3,888	200	

B = Elevation interpolated from USGS topographical map based on referenced location. IRR = Irrigation
DOM = Domestic
STK= Livestock watering
SAN = Sanitary in conjunction with commercial
quarters are I=NW, 2=NE, 3=SW, 4=SE; quarters are biggest to smallest

TABLE 2

Summary of Soil Boring Soil Sample Laboratory Analytical Results

Chesapeake "SV" Chipshot (Ref. #160037)

Soil Sample I.D.	Depth (feet)	Soil Status	Sample Date	PID Reading (ppm)	PID Reading Field Chloride (ppm)	Benzene (mg/Kg)	Toluene (mg/Kg)	Ethylbenzene (mg/Kg)	Ethylbenzene Total Xylenes Total BTEX (mg/Kg) (mg/Kg)	Total BTEX (mg/Kg)	TPH (as gasoline) (mg/Kg)	TPH (as diesel) (mg/Kg)	Total TPH (mg/Kg)	Chloride (mg/Kg)	Sulfate (mg/Kg)
	2	Excavated	10-Nov-05	634	1280	2.41	19.8	16.0	43.1	81.3	289	696	1,252	2,463	88.9
	5	Excavated	10-Nov-05	137.0	0.009	<0.005	0.0050	<0.005	0.0170	0.0220	<10.0	197	197	926	6.36
	10	Excavated	10-Nov-05	5.2	640.0	<0.005	<0.005	<0.005	< 0.015	<0.03	<10.0	34	34	944	3.28
SB-1	15	In Situ	10-Nov-05	3.7	0.096		1	;	;					944	15.0
	20	In Situ	10-Nov-05	2.9	260.0	1	<0.005	<0.005	<0.015	<0.03	<10.0	103	103	809	1.88
	25	In Situ	10-Nov-05	2.0	160.0		<0.005	<0.005	<0.015	<0.03	<10.0	<10.0	<20.0	64	33.9
	30	In Situ	10-Nov-05	1.3	160.0	-	<0.005	<0.005	<0.015	<0.03	<10.0	<10.0	<20.0	128	22.5
	2	Excavated	10-voN-05	491.0	1120.0	09000	0.0630	0.0140	3.71	3.79	41.8	434	475	2,239	17.4
0	5	Excavated	10-Nov-05	3.5	320.0	<0.005	<0.005	<0.005	< 0.015	<0.03	<10.0	<10.0	<20.0	448	5,956
7- 9 C	10	In Situ	10-Nov-05	3.3	160.0	:	}	-	-	1	-		**	80	211
	15	In Situ	10-Nov-05	3.0	80.0	-	1			:	-	:		187	187
	2	Excavated	10-voN-05	212.0	1120.0	09000	0.369	0.177	2.29	2.84	20.1	488	208	2,479	20.1
	S	Excavated	10-Nov-05	16.2	480.0	<0.005	<0.005	<0.005	<0.015	<0.03	<10.0	6.99	6.99	720	24.6
SB-3	10	In Situ	10-Nov-05	3.9	400.0	1	-	1	:	-				512	22
	15	In Situ	10-Nov-05	1.4	200.0					-				144	9.48
	20	In Situ	10-Nov-05	2.0	160.0	-		-		-				48	16.0
NW	OCD Reme	NMOCD Remedial Thresholds	splc	100		10				50			100	250 3	6503

¹ Bolded values are in excess of NMOCD Remediation Thresholds and/or NMWQCC groundwater standards.

 $^{^{2}}$ -- = Not Analyzed

³ Chloride and sulfate residuals may not be capable of impacting local groundwater above the NMWQCC standards of 250 mg/L and 650 mg/L, respectively.

TABLE 3

Summary of Excavation Soil Sample Laboratory Analytical Results

Chesapeake "SV" Chipshot (Ref. #160037)

			ii -	Tr. o dia	ירייין טרוייט	e e	F	7.41	Total V. Lond	Total BTEV	ТРН	ТРН	Totol TBU	Chlorido	Culfado
Depth (feet) Soil Status Sample Date (ppm) (mg/Kg)	Soil Status Sample Date (ppm)	rii) keading (ppm)	rii) keading (ppm)	rieta Cmoriae (mg/Kg)		(mg/Kg)	i oluene (mg/Kg)	Emyloenzene (mg/Kg)	(mg/Kg)	(mg/Kg)	(as gasoline) (mg/Kg)	(as diesel) (mg/Kg)	(mg/Kg)	(mg/Kg)	Suntate (mg/Kg)
12 In Situ 29-Nov-05 3	29-Nov-05		3	;	Н	<0.0250	<0.0250	<0.0250	<0.0250	<0.10	<10.0	<10.0	<10.0	269	73.6
10 In Situ 29-Nov-05 7	29-Nov-05] /_	:		<0.0250	<0.0250	<0.0250	<0.0250	<0.10	<10.0	<10.0	<10.0	1,200	75.1
6 In Situ 29-Nov-05 3.6	29-Nov-05 3.6	3.6	-			<0.0250	<0.0250	<0.0250	<0.0250	<0.10	<10.0	<10.0	<10.0	1,250	163
6 In Situ 29-Nov-05 3.2	29-Nov-05 3.2	3.2	**			<0.0250	<0.0250	<0.0250	<0.0250	<0.10	<10.0	29.1	29.1	103	120
6 In Situ 29-Nov-05 4.3	29-Nov-05 4.3	4.3				<0.0250	<0.0250	<0.0250	<0.0250	<0.10	<10.0	<10.0	<10.0	908	69.3
6 In Situ 29-Nov-05 3.4	29-Nov-05 3.4	3.4		-		<0.0250	<0.0250	<0.0250	<0.0250	<0.10	<10.0	<10.0	<10.0	529	52.1
7 In Situ 29-Nov-05 2.0	29-Nov-05 2.0	2.0		1		<0.0250	<0.0250	<0.0250	<0.0250	<0.10	<10.0	<10.0	<10.0	428	9.88
6 In Situ 29-Nov-05 2	29-Nov-05		2	1		<0.0250	<0.0250	<0.0250	<0.0250	<0.10	<10.0	<10.0	<10.0	317	53.2
7 Excavated 29-Nov-05 2,932	29-Nov-05	-6.3	2,932	10 10 10 10 10 10 10 10 10 10 10 10 10 1	3.77	65.7	310	991	311	853	5,790	7,800	13,600	219	68
6 Excavated 29-Nov-05 1,358	29-Nov-05	29-Nov-05] 856'1		10,000	0.124	4.49	4.60	11.2	20.4	239	199	006	831	91
3 Excavated 29-Nov-05 6:1	29-Nov-05 6.1	29-Nov-05 6.1	I'9		3000	<0.0250	<0.0250	<0.0250	<0.0250	<0.10	<10.0	<10.0	<10.0	984	69
3 Excavated 29-Nov-05 2.4	29-Nov-05 2.4	29-Nov-05 2.4				<0.0250	<0.0250	<0.0250	<0.0250	<0.10	<10.0	<10.0	<10.0	241	40.3
3 Excavated 29:Nov-05 3:2 <	23:Nov-05	23:Nov-05	1			<0.0250	<0.0250	<0.0250	<0.0250	<0.10	<10.0	<10.0	<10.0	1,070	72.2
3 Excavated 29-Nov-05 2.3 <	29.Nov-05 2.3	29.Nov-05 2.3			Υ.	<0.0250	<0.0250	<0.0250	<0.0250	<0.10	<10.0	<10.0	<10.0	246	46.9
3 In Situ [29-Nov-05] 1.1 <	29-Nov-05 1.1	1.1	-		^	<0.0250	<0.0250	<0.0250	<0.0250	<0.10	<10.0	<10.0	<10.0	252	43.7
3 In Situ 29-Nov-05 1.1	29-Nov-05 1.1	1.1			*	<0.0250	<0.0250	<0.0250	<0.0250	<0.10	<10.0	<10.0	<10.0	318	37.8
2.1	29-Nov-05 2.1	2.1	1		۷I	<0.0250	<0.0250	<0.0250	<0.0250	<0.10	<10.0	<10.0	<10.0	236	43.8
3 In Situ 29-Nov-05 1.3 <	29-Nov-05 1.3	1.3	1	_	۱ ۲	<0.0250	<0.0250	<0.0250	<0.0250	<0.10	<10.0	<10.0	<10.0	129	1,080
Excavated 29-Nov-05 1.4	29-Nov-05 1.4	29-Nov-05 1.4		***************************************	100	<0.0250	<0.0250	<0.0250	<0.0250	<0.10	<10.0	<10.0	<10.0	3,170	159
1 Excavated 29-Nov-05 1.0	29-Nov-05 1.0	1.0				<0.0250	<0.0250	<0.0250	<0.0250	<0.10	<10.0	<10.0	<10.0	492	83.1
2 Excavated 14-Dec-05 800	14-Dec 05			008				***						704	
J In Situ 20-Dec-05	Н	20-Dec-05				<0.005	<0.005	<0.005	<0.015	<0.030	<10.0	<10.0	<20.0	448	
2 Excavated [14-Dec-05] 800	[4-Dec-05]			800			-			A393 C) G C) T C) T C) T C) T C) T C) T C) T C) T				1.264	
In Situ		20-Dec-05				<0.005	<0.005	<0.005	<0.015	<0.030	<10.0	<10.0	<20.0	288	 -
2 Excavated 14-Dec-05 640	14-Dec-05			640				1 1 1 2 1 2						832	
In Situ 20-Dec-05		20-Dec-05				<0.005	<0.005	<0.005	<0.015	<0.030	<10.0	<10.0	<20.0	1,568	
Excavated 14-Dec:05 720	[4-Dec-05			720	Such.					, a	- 1			880	
In Situ 20-Dec-05	20-Dec-05					<0.005	<0.005	<0.005	<0.015	<0.030	<10.0	<10.0	<20.0	160	<
Excavated 15-Dec-05	15-Dec-05								20.00 20.00	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2				128	
In Situ 20-Dec-05	20-Dec-05			+	\vdash	<0.005	<0.005	<0.005	<0.015	<0.030	<10.0	<10.0	<20.0	1,663	14.0
1 In Situ 15-Dec-05	Н	15-Dec-05	-	1	\vdash	:	-	:	:	1		:		196	!
NMOCD Remedial Thresholds 100			100			10				50			100	250 3	650 3
1 OCCUMENT IT IT IN A MACCINETY		The other Company of the Control of	To an distant MANON OF THE STATE OF		1										

Bolded values are in excess of NMOCD Remediation Thresholds and/or NMWQCC groundwater standards.

 $^{^{2} - =} Not Analyzeu$

³ Chloride and sulfate residuals may not be capable of impacting local groundwater above the NMWQCC standards of 250 mg/L and 650 mg/L, respectively.

APPENDICES

APPENDIX I LABORATORY ANALYTICAL REPORTS AND CHAIN-OF-CUSTODY FORM



ANALYTICAL RESULTS FOR ENVIRONMENTAL PLUS, INC.

ATTN: IAIN OLNESS P.O. BOX 1558 EUNICE, NM 88231 FAX TO: (505) 394-2601

Receiving Date: 11/11/05 Reporting Date: 11/17/05

Project Owner: CHESAPEAKE ENERGY (160037)

Project Name: "SV" CHIPSHOT

Project Location: UL-K, SEC11, T16S, R36E

Sampling Date: 11/10/05

Sample Type: SOIL

Sample Condition: COOL & INTACT

Sample Received By: HM

Analyzed By: BC

PHONE (505) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

•							
		GRO	DRO			ETHYL	TOTAL
LAB NUMBER	SAMPLE ID	$(C_{6}-C_{10})$	(>C ₁₀ -C ₂₈)	BENZENE	TOLUENE	BENZENE	XYLENES
		(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)
ANALYSIS DA	TE:	11/14/05	11/14/05	11/16/05	11/16/05	11/16/05	11/16/05
H10407-1	SB-1 (2')	289	963	2.41	19.8	16.0	43.1
H10407-2	SB-1 (5')	<10.0	197	<0.005	0.005	0.005	0.017
H10407-3	SB-1 (10')	<10.0	<10.0	<0.005	<0.005	<0.005	<0.015
H10407-4	SB-1 (15')	-	-	-		_	-
H10407-5	SB-1 (20')	•	-	-		-	
H10407-6	SB-1 (25')	-	-		-	-	_
H10407-7	SB-1 (30')	-	-	-	-		-
H10407-8	SB-2 (2')	41.8	434	0.006	0.063	0.014	3.71
H10407-9	SB-2 (5')	<10.0	<10.0	<0.005	<0.005	<0.005	<0.015
H10407-10	SB-2 (10')		-	-	-	-	_
H10407-11	SB-2 (15')	-		-	-	-	
H10407-12	SB-3 (2')	•	-	-	-	_	-
H10407-13	SB-3 (5')	20.1	488	0.006	0.369	0.177	2.29
H10407-14	SB-3 (10')	<10.0	66.9	<0.005	<0.005	<0.005	<0.015
H10407-15	SB-3 (15')	_	-	-	-	-	-
H10407-16	SB-3 (20')	-	-	-	-	-	-
Quality Contro		800	761	0.093	0.092	0.096	0.295
True Value QC		800	800	0.100	0.100	0.100	0.300
% Recovery		100	95.1	92.8	91.9	95.7	98.2
Relative Perce	nt Difference	1.2	1.0	4.3	3.4	4.2	4.0

METHODS: TPH GRO & DRO - EPA SW-846 8015 M; BTEX - SW-846 8260.

H10407A.XLS

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profils incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above-stated reasons or otherwise.



PHONE (505) 393-2326 · 101 E. MARLAND · HOBBS, NM 88240

ANALYTICAL RESULTS FOR ENVIRONMENTAL PLUS, INC. ATTN: IAIN OLNESS P.O. BOX 1558 EUNICE, NM 88231

FAX TO: (505) 394-2601

Receiving Date: 11/11/05 Reporting Date: 11/15/05

Project Owner: CHESAPEAKE ENERGY (160037)

Project Name: "SV" CHIPSHOT

Project Location: UL-K, SEC11, T16S, R36E

Sampling Date: 11/10/05

Sample Type: SOIL

Sample Condition: COOL & INTACT

Sample Received By: HM

Analyzed By: AH

		SO ₄	Cl
LAB NUMBER	SAMPLE ID	(mg/Kg)	(mg/Kg)

ANALYSIS DA	NTE:	11/15/05	11/15/05
H10407-1	SB-1 (2')	88.9	2463
H10407-2	SB-1 (5')	6.36	976
H10407-3	SB-1 (10')	3.28	944
H10407-4	SB-1 (15')	15.0	944
H10407-5	SB-1 (20')	1.88	608
H10407-6	SB-1 (25')	33.9	64
H10407-7	SB-1 (30')	22.5	128
H10407-8	SB-2 (2')	17.4	2239
H10407-9	SB-2 (5')	5956	448
H10407-10	SB-2 (10')	211	80
Quality Contro	ol .	42.53	950
True Value Q	Ç	50.00	1000
% Recovery		85.1	95.0
Relative Perce	ent Difference	3.2	5.0

METHODS: EPA 600/4-79-020	375.4	SM 4500 CIB
METIODO. El 71 000/7-7 3-020	0/0.7	OIVI 7000 CI D

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

Date





PHONE (505) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

ANALYTICAL RESULTS FOR ENVIRONMENTAL PLUS, INC.

ATTN: IAIN OLNESS P.O. BOX 1558

EUNICE, NM 88231 FAX TO: (505) 394-2601

Receiving Date: 11/11/05

Reporting Date: 11/15/05

Project Owner: CHESAPEAKE ENERGY (160037)

Project Name: "SV" CHIPSHOT

Project Location: UL-K, SEC11, T16S, R36E

Sampling Date: 11/10/05

Sample Type: SOIL

Sample Condition: COOL & INTACT

Sample Received By: HM

Analyzed By: AH

		SO ₄	CI
LAB NUMBER	SAMPLE ID	(mg/Kg)	(mg/Kg)

ANALYSIS DATE:	11/15/05	11/15/05
H10407-11 SB-2 (15')	187	187
H10407-12 SB-3 (2')	20.1	2479
H10407-13 SB-3 (5')	24.6	720
H10407-14 SB-3 (10')	21.8	512
H10407-15 SB-3 (15')	9.48	144
H10407-16 SB-3 (20')	16.0	48
Quality Control	42.53	950
True Value QC	50.00	1000
% Recovery	85.1	95.0
Relative Percent Difference	3.2	5.0

		······································
METHODS: EPA 600/4-79-020	375.4	SM 4500 Cl'B

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

May Hill Chemist

11-15-05

Date

Chain of Custody Form

Environmental Plus, Inc.

P.O. Box 1558, Eunice, NM 88231

Company Name	Environmental Plus, Inc.	s, Inc	• . ا	ı						F	BIII To	[0				NY	Nal V	<u>SIS</u>	34	no)	ANALYSIS REQUEST		
EPI Project Manage															-	-	-	-	-	-			
Mailing Address	P.O. BOX 1558				Γ											-		_					_
City, State, Zip	Eunice New Mexico 8823	885	3							•	۹,						-						
EPI Phone#/Fax#	# 505-394-3481 / 505-394-20	394-	2601						8 2	M	<u>.</u> "	Ш											
Client Company					<u> </u>					g.)E	•					*****						
Facility Name	"SV" Chipshot				<u> </u>												******						
Location	<u>=</u> ,	16 S,	Œ	R 36 E	<u>.</u>				¥	ij	ai.	Attn: lain Olness											
Project Reference	160037				Γ				<u>,,,,</u>	Ŏ.	Bô	P.O. Box 1558				_		_					
EPI Sampler Name	me George Blackburn								끱	nice	Ž,	Eunice, NM 88231					*****						
			Г		Ž	MATRIX	×		법	PRESERV.	₩.	SAMPLING	√G		<u></u>								*********
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2	SB-1 (5')	ប	-			×	\vdash	Ш	Щ	X		10-Nov-05	11:35	×	×	×	×	\vdash	┢	 	_		
3	SB-1 (10')	១	ᅱ			×				X		10-Nov-05	11:45	×	×	×	×		S	ee J	See Notes		
4		១	-			×		Ц		Х		10-Nov-05	12:01	X	X	×	×	H	ြ	ee J	See Notes		
5	SB-1 (20')	ឲ	ᅱ	7	\exists	×		_	_	×		10-Nov-05	12:10	X	×	×	×		S	ee l	See Notes		
9	6 SB-1 (25')	ග	ᅴ	7	\exists	×	4	_	_	×		10-Nov-05	12:20	×	X	×	×		S	ee l	See Notes		
7	7 SB-1 (30')	ග	ᅱ	7	4	×	-	_	_	×		10-Nov-05	12:30	×	×	×	×		S	ee l	See Notes		
8	8 SB-2 (2')	ڻ ا	-	7	-	×	4	_	_	×		10-Nov-05	13:13	_		┪	×		┪				
6	9 SB-2 (5')	<u>o</u>	-	7		$\frac{1}{2}$	_	4	_	×		10-Nov-05	13:23	×	×	×	×			_			
10	10 SB-2 (10')	Ö	귀			$\stackrel{ imes}{\prec}$		_	_	×		10-Nov-05	13:34	×	×	×	×		S	ee l	See Notes		
Sampler Relinquished:	Date	Rece	Received By:	: '						Е-п	tail r	E-mail results to: iolness@envplus.net	s@envplu	.net									
	Time	\sqcup	•							NOT	ES: C	NOTES: Only analyze each analyte if analytical results for the previous sample indicate TPH >100 ppm,	yte if analytics	l resu	its for	the pr	evious	s sam	ple in	dicate	PH√.	g 00	έ
Relinquished by:	177140	Receiv	4 C.	id By: (lab staff)	staff)) Maris	7		\	CON	ecutiv	Defizient > 10 ppil and DTEA > 20 ppm, Aranyze for chloride and/or suifate until there are three consecutive samples with chloride > 250 ppm and/or suifate is > 600 ppm. ANY QUESTIONS, PLEASE CONTACT IAIN OLNESS AT (505) 394-3481.	50 ppm. Analy de > 250 ppm 35) 394-3481.	ze for and/o	r Sulfa	de an teis>	600 r	ulfate opm. /	ANY C	here a VVES1	re three IONS, I	J.EA	μ̈
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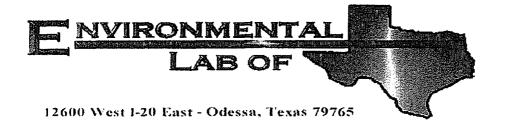
Chain of Custody Form

Environmental Plus, Inc.

2100 Avenue O, Eunice, NM 88231 (505) 394-3481 FAX: (505) 394-2601

P.O. Box 1558, Eunice, NM 88231

Company Name	Environmental Plus, Inc.	il Plus, I	ဒ္								8	BIII To					Z	W.	SIS	REC		ANALYSISIREQUEST		
EPI Project Manager	ager lain Olness					!									 	-	 	 - -	<u> </u>		<u> </u>	_		
Mailing Address	P.O. BOX 1558	8										225 2000 2000 2000												
City, State, Zip	Eunice New Mexico 88231	lexico 8	823	_						Į			I											
EPI Phone#/Fax#	# 505-394-3481 / 505-394-2601	/ 505-39	4-2	501								·o												
Client Company	Chesapeake Energy	ergy									-								, and a	_	-			,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
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Location	UL-K, Section 11, T 16 S,	11, T 1(ကွ်	R 36 E	E E					Att	:: 	<u>ii</u>	Attn: lain Olness											
Project Reference						Γ-				σ.	O. E.	P.O. Box 1558	558				-	***************************************						
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Sampler Relinquished:	Date	H.	eceiv	Received By:						Ī	Ë-ma	il resi	E-mail results to: iolness@envplus.net	s@envplu	.net									
	Ттт										NOTE	S: Only	NOTES: Only analyze each analyte if analytical results for the previous sample indicate TPH >100 ppm,	lyte if analytica	resut	is for	he pre	vious	samp	le indi	cate T	PH>	90 DD	έ
Relinquished by:	- 11-11-1 Time	رة الم	Receive		d By: (lab staff)	ر الم	Morans	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\)		Sonse(outive su ACT IAI	Denzene > 10 ppm and BTEX > 50 ppm. Analyze for chloride and/or sulfate until there are three consecutive samples with chloride > 250 ppm and/or sulfate is > 600 ppm. ANY QUESTIONS, PLEASE CONTACT IAIN OLNESS AT (505) 394-3481.	50 ppm. Analy de > 250 ppm 05) 394-3481.	ze for and/or	chlori sulfal	de and e is >	Vor sul 600 pr	lfate u om. Af	M¥ OC.	ere ark JESTI(e three ONS, 1	e PLEA!	ព
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Analytical Report

Prepared for:

Iain Olness
Environmental Plus, Incorporated
P.O. Box 1558
Eunice, NM 88231

Project: Chesapeake/ SV Chipshot Project Number: 160037

Location: UL-K, Sect. 11, T 16 S, R 36 E

Lab Order Number: 5K29023

Report Date: 12/01/05

Environmental Plus, Incorporated P.O. Box 1558

Eunice NM, 88231

Project: Chesapeake/ SV Chipshot

Project Number: 160037
Project Manager: Iain Olness

Fax: 505-394-2601 Reported: 12/01/05 08:25

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
BH-1 12'	5K29023-01	Soil	11/29/05 10:20	11/29/05 16:45
BH-2 10°	5K29023-02	Soil	11/29/05 10:30	11/29/05 16:45
BH-3 6'	5K29023-03	Soil	11/29/05 10:40	11/29/05 16:45
BH-4 6'	5K29023-04	Soil	11/29/05 10:50	11/29/05 16:45
BH-5 6'	5K29023-05	Soil	11/29/05 11:00	11/29/05 16:45
BH-6 6'	5K29023-06	Soil	11/29/05 11:10	11/29/05 16:45
BH-7 7'	5K29023-07	Soil	11/29/05 11:20	11/29/05 16:45
BH-8 6'	5K29023-08	Soil	11/29/05 11:30	11/29/05 16:45
SW-1 7'	5K29023-09	Soil	11/29/05 11:40	11/29/05 16:45
SW-2 6'	5K29023-10	Soil	11/29/05 11:50	11/29/05 16:45
SW-3 3'	5K29023-11	Soil	11/29/05 12:10	11/29/05 16:45
SW-4 3'	5K29023-12	Soil	11/29/05 12:20	11/29/05 16:45
SW-5 3'	5K29023-13	Soil	11/29/05 12:30	11/29/05 16:45
SW-6 3'	5K29023-14	Soil	11/29/05 12:40	11/29/05 16:45
SW-7 3'	5K29023-15	Soil	11/29/05 12:50	11/29/05 16:45
SW-8 3'	5K29023-16	Soil	11/29/05 13:00	11/29/05 16:45
SW-9 3'	5K29023-17	Soil	11/29/05 13:10	11/29/05 16:45
SW-10 3'	5K29023-18	Soil	11/29/05 13:20	11/29/05 16:45
SW-11-1'	5K29023-19	Sail	11/29/05 13:30	11/29/05 16:45
SW-12 1'	5K29023-20	Soil	11/29/05 13:40	11/29/05 16:45

Environmental Plus, Incorporated

P.O. Box 1558 Eunice NM, 88231 Project: Chesapeake/ SV Chipshot

Project Number: 160037 Project Manager: Iain Olness Fax: 505-394-2601

Reported: 12/01/05 08:25

Organics by GC **Environmental Lab of Texas**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	No
Analyte BH-1 12' (5K29023-01) Soil	utt	- Lilli	t3	Juution	oatCl)	. repared	Analyzed	ivicinod	No
									w
Benzene	ND		mg/kg dry	25	EK53002	11/30/05	11/30/05	EPA 8021B	
Foluene	ND	0.0250	II	"	**	U		"	
Ethylbenzene	ND	0.0250	H	"	н	н	l e	n	
Xylene (p/m)	ND	0.0250		н	υ		Ħ	*	
Xylene (o)	ND	0.0250			4			0	nt= / #
Surrogate: a,a,a-Trifluorotoluene		98.8 %	80-1.		17	tr.	7/	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
Surrogate: 4-Bromofluorobenzene		86.5 %	80-17	20	μ	н	n	"	
Gasoline Range Organics C6-C12	ND	10.0	mg/kg dry	1	EK53001	11/30/05	11/30/05	EPA 8015M	
Diesel Range Organics >C12-C35	ND	10.0	u	ы		n	ŋ	u	
Total Hydrocarbon C6-C35	ND	10.0		11	h	11		11	American constraints
Surrogate: 1-Chlorooctane		89.4 %	70-1.	30	"	"	#	<i>H</i>	19141 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Surrogate: 1-Chlorooctadecane		93.6 %	70-1.		"	ır	"	"	
BH-2 10' (5K29023-02) Soil		-	*****						
Benzene	ND	0.0250	mg/kg dry	25	EK53002	11/30/05	11/30/05	EPA 8021B	
Toluene	ND	0.0250	"	"	"		,		
Ethylbenzene	ND	0.0250	b	11	11	ú	*	#	
Xylene (p/m)	ND	0.0250	tŧ	h	0	ţŧ.	n	ч	
Xylene (o)	ND	0.0250	"	H	н	μ	ч	н	
Surrogate: a,a,a-Trifluorotoluene		104 %	80-12	20	#	#	·		
Surrogate: 4-Bromofluorobenzene		89.5 %	80-1		"	"	"	•	
Gasoline Range Organics C6-C12	ND		mg/kg dry	l	EK53001	11/30/05	11/30/05	EPA 8015M	
Diesel Range Organics >C12-C35	ND	10.0	9	"	"	"	n	#	
Total Hydrocarbon C6-C35	ND	10.0	by .	н	p	ıı	#	11	
Surrogate: I-Chlorooctane	***************************************	85.6 %	70-1.	30	<i>n</i>	"	11	H	
Surrogate: 1-Chlorooctadecane		83.6%	70-1. 70-1.		*	**	"	"	
BH-3 6' (5K29023-03) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EK53002	11/30/05	11/30/05	EPA 8021B	
Foluene	ND	0.0250	" " " " " " " " " " " " " " " " " " "	14	" "	n	, ₂ - 0 - 0 - 0 - 0 - 0 - 0 - 0 - 0 - 0 -	UFA 6021B	
Ethylbenzene	ND	0.0250	It	μ		н	n	9	
(ylene (p/m)	ND	0.0250	Ħ	II.	п	u	ų	u	
(ylene (o)	ND	0.0250	ti	n	•	į,	"	*	
'urrogate: a,a,a-Trifluorotoluene	<u></u>	100 %	80-1	20	,,	n	"	11	
urrogate: a,a,a-1 riftuorototuene urrogate: 4-Bromofluorobenzene		100 % 96.8 %	80-11 80-11		"	n	"	n	
urrogale: 4-Bromofluorobenzene Basoline Range Organics C6-C12	ND		80-12 mg/kg dry	1	EK53001	•			
Diesel Range Organics >C12-C35	ND ND	10.0	g ury "	l H	EK53001	11/30/05	11/30/05	EPA 8015M	
otal Hydrocarbon C6-C35	ND ND	10.0 10.0	R	-	•	"	ų	41	

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.

Environmental Plus, Incorporated P.O. Box 1558

Eunice NM, 88231

Project: Chesapeake/ SV Chipshot

Project Number: 160037
Project Manager: Iain Olness

Fax: 505-394-2601 Reported: 12/01/05 08:25

Organics by GC Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BH-3 6' (5K29023-03) Soil			-						
Surrogate: 1-Chlorooctane		88.2 %	70-	130	EK53001	11/30/05	11/30/05	EPA 8015M	
Surrogate: 1-Chlorooctadecane		86.8 %	70-	130	"	"	н	n	
BH-4 6' (5K29023-04) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EK53002	11/30/05	11/30/05	EPA 8021B	
Toluene	ND	0.0250	n	D	"	**	*	•	
Ethylbenzene	ND	0.0250	ŧi	*	U	"	**	11	
Xylene (p/m)	ND	0.0250	0		**	u	,,	n	
Xylene (o)	ND	0.0250	u	0	u	n	u	H	
Surrogate: a,a,a-Trifluorotoluene		100 %	80-	120);	<i>y</i> ı	"	#	
Surrogate: 4-Bromofluorobenzene		93.2 %	80-	120	**	41	"	**	
Gasoline Range Organics C6-C12	ND	10.0	mg/kg dry	1	EK53001	11/30/05	11/30/05	EPA 8015M	
Diesel Range Organics >C12-C35	29.1	10.0	"	n	51	te .	u	u	
Total Hydrocarbon C6-C35	29.1	10.0	u		p		H	h	
Surrogate: 1-Chlorooctane		87.8 %	70-	130	,,	je .	"	n	
Surrogate: 1-Chlorooctadecane		89.0 %	70-	130	"	u	"	"	
BH-5 6' (5K29023-05) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EK53002	11/30/05	11/30/05	EPA 8021B	
Toluene	ND	0.0250		31	и	Ħ	Ħ	r	
Ethylbenzene	. ND	0.0250	"	R	u	, i	w	N	
Xylene (p/m)	ND	0.0250	n	**	w	e e	u	11	
Xylene (o)	ND	0.0250		10	H	II	Į.	n	
Surrogate: a,a,a-Trifluorotoluene		101 %	80-	120	11	11	"	"	
Surrogate: 4-Bromofluorobenzene		88.5 %	80-	120	"	*	n	н	
Gasoline Range Organics C6-C12	ND	10.0	mg/kg dry	ı	EK53001	11/30/05	11/30/05	EPA 8015M	
Diesel Range Organics >C12-C35	ND	10.0	u	н	n	4		19	
Total Hydrocarbon C6-C35	ND	10.0	W		Įv.	u	н	u	
Surrogate: 1-Chlorooctane	A construction of the second second	77.4 %	70-	130	"	"	***************************************	"	THE PERSON NAMED IN COLUMN TWO IS NOT THE
Surrogate: 1-Chlorooctadecane		75.2 %	70-	130	.,	"	"	"	

Environmental Plus, Incorporated

P.O. Box 1558 Eunice NM, 88231 Project: Chesapeake/ SV Chipshot

Project Number: 160037 Project Manager: Iain Olness Fax: 505-394-2601 Reported: 12/01/05 08:25

Organics by GC **Environmental Lab of Texas**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Not
BH-6 6' (5K29023-06) Soil						,	.,		
Benzene	ND	0.0250	mg/kg dry	25	EK53002	11/30/05	11/30/05	EPA 8021B	
Foluene	ND	0.0250	ı,	н	"	0	"	п	
Ethylbenzene	ND	0.0250	"	tı.	"	"	μ	tr.	
Xylene (p/m)	ND	0.0250	10	n	19	Ħ	"		
Xylene (n)	ND	0.0250			11	я	,,	H	
Surrogate: a,a,a-Trifluorotoluene		102 %	80-1	20	"	и		######################################	
Surrogaie: 4,u,u-1 rijuuro totaene Surrogaie: 4-Bromofluorobenzene		90.0 %	80-1		"	n	n	"	
Gasoline Range Organics C6-C12	ND		mg/kg dry	1	EK53001	11/30/05	11/30/05	EPA 8015M	
Diesel Range Organics >C12-C35	ND	10.0		Ħ	"	n -	11750703	M F	
Total Hydrocarbon C6-C35	ND	10.0	**	p	u		0	11	
Surrogate: 1-Chlorooctane		80.2 %	70-1	30	"	и	ħ	#	*
Surrogate: 1-Chlorooctadecane		78.8 %	70-1		"	**	"	"	
•		2.4 70	, .					•	
BH-7 7' (5K29023-07) Soil) IP	0.0050	mo/l·a -	25	EK 52000	11/30/05	11/20/07	EPA 8021B	
Benzene Toluene	ND ND		mg/kg dry "	25 "	EK53002	. 1/3U/05 "	11/30/05	⊯ M 0021B	
Toluene Ethylbenzene	ND ND	0.0250 0.0250		W M	11	 H	# #		
Ethylbenzene Xylene (n/m)	ND ND	0.0250 0.0250			11		"		
Xylene (p/m) Xylene (a)	ND ND	0.0250 0.0250		H H	"	ri H	"	47	
Xylene (o)	ND					"		The Control of the State of the	
Surrogate: a.a.a-Trifluorotoluene		103 % 87 8 %			11 14	"	n	u u	
Surrogate: 4-Bromofluorobenzene Gasoline Range Organics C6-C12) In	87.8 %						" EPA 8015M	
Gasoline Range Organics C6-C12 Diesel Range Organics >C12-C35	ND		mg/kg dry	1	EK53001	11/30/05	11/30/05	EPA 8015M	
Diesel Range Organics >C12-C35	ND ND	10.0	11	u u	Ħ		n u	u u	
Total Hydrocarbon C6-C35	ND	10.0					···	······································	The second second second second
Surrogate: 1-Chlorooctane		76.8 %		-	"	"	"	H	
Surrogate: 1-Chlorooctadecane		77.0 %	70-1	1 <i>50</i>	**	"	1)	n	
BH-8 6' (5K29023-08) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EK53002	11/30/05	11/30/05	EPA 8021B	
Toluene	ND	0.0250		и	u	н	н	н	
Ethylbenzene	ND	0.0250		и	b	**	×	н	
Xylene (p/m)	ND	0.0250		п	u	*	#	b	
Xylene (o)	ND	0.0250		и	u	**	ρ	n .	
Surrogate: a,a,a-Trifluorotoluene		102 %		'20	,,	"	n	11	
Surrogate: 4-Bromofluorobenzene		93.2 %			"	"	и	"	
Gasoline Range Organics C6-C12	ND		mg/kg dry	1	EK53001	11/30/05	11/30/05	EPA 8015M	
Diesel Range Organics >C12-C35	ND	10.0		"	n	"	"	0	
otal Hydrocarbon C6-C35	ND	10.0		,,		II	n	41	

Environmental Lab of Texas

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P.O. Box 1558 Eunice NM, 88231 Project: Chesapeake/ SV Chipshot

Project Number: 160037 Project Manager: Iain Olness Fax: 505-394-2601 Reported: 12/01/05 08:25

Organics by GC Environmental Lab of Texas

Analyte	Result	Reporting Limit		Dilution	Batch	Prepared	Analyzed	Method	Notes
BH-8 6' (5K29023-08) Soil							, 200		
Surrogate: 1-Chlorooctane		93.6 %	70-	130	EK53001	11/30/05	11/30/05	EPA 8015M	
Surrogate: 1-Chlorooctadecane		97.0 %	70-	130	n	"	"	11	
SW-1 7' (5K29023-09) Soil									
Benzene	65.7	0.500	mg/kg dry	500	EK53002	11/30/05	11/30/05	EPA 8021B	
Toluene	310	0.500	**	11)†	n	17	H	
Ethylbenzene	166	0.500	11	n	•	u	•	**	
Xylene (p/m)	213	0.500		n	Ħ	U	a	n	
Xylene (o)	97.9	0.500	u	11	я				
Surrogate: a,a,a-Trifluorotoluene		1050 %	80-	120	и	0	"	"	S-04
Surrogate: 4-Bromofluorobenzene		96.5 %	80-	120	"	n	"	0	
Gasoline Range Organics C6-C12	5790	100	mg/kg dry	10	EK53001	11/30/05	11/30/05	EPA 8015M	
Diesel Range Organics >C12-C35	7800	100	4	n	at	11	11	и	
Total Hydrocarbon C6-C35	13600	100	n	11	#	ti .		II	
Surrogate: 1-Chlorooctane		27.6 %	70-	130	"	,,	"	"	S-06
Surrogate: 1-Chlorooctadecane		27.2 %	70-	130	и	"	"	0	S-06
SW-2 6' (5K29023-10) Soil									
Benzene	0.124	0.0250	mg/kg dry	25	EK53002	11/30/05	11/30/05	EPA 8021B	
Toluene	4.49	0.0250	ч	Ħ	h		н	ч	
Ethylbenzene	4.60	0.0250		*	n	v	II .	41	
Xylene (p/m)	7.54	0.0250	Ħ	4	u	D	и		
Xylene (o)	3.63	0.0250	jı	U	lı .	11	n		
Surrogate: a,a,a-Trifluorotoluene		172 %	80-	120	tş	n	*	n	S-04
Surrogate: 4-Bromofluorobenzene		143 %	80-	120	"	"	,,	ır	S-04
Gasoline Range Organics C6-C12	239	10.0	mg/kg dry	1	EK53001	11/30/05	11/30/05	EPA 8015M	
Diesel Range Organics >C12-C35	661	10.0	U	**	u	u	v	0	
Total Hydrocarbon C6-C35	900	10.0	0	J1	H	11		ц	
Surrogate: 1-Chlorooctane	·	102 %	70-	130	"	**	"	3T	
Surrogate: I-Chlorooctadecane		109 %	70-	130	"	"	,,	se	

P.O. Box 1558 Eunice NM, 88231 Project: Chesapeake/ SV Chipshot

Project Number: 160037 Project Manager: Iain Olness Fax: 505-394-2601

Reported: 12/01/05 08:25

Organics by GC **Environmental Lab of Texas**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	No
SW-3 3' (5K29023-11) Soil					- utili	. 1-haren	, maryzed	.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	140
		A A4 - 1	m = A		Prese.	11000		ED 4 66617	
Benzene	ND		mg/kg dry	25	EK53002	11/30/05	11/30/05	EPA 8021B	
Toluene	ND	0.0250				n			
Ethylbenzene	ND	0.0250		"	"		н	11	
Xylene (p/m)	ND	0.0250	"	н	0			N	
Xylene (o)	ND	0.0250			lt .				
Surrogate: a,a,a-Trifluorotoluene		107 %	80-1		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		95.2 %	80-1	20	**	"	"	,	
Gasoline Range Organics C6-C12	ND		mg/kg dry	1	EK53001	11/30/05	11/30/05	EPA 8015M	
Diesel Range Organics >C12-C35	ND	10.0	n	u	*	u		(6	
Total Hydrocarbon C6-C35	ND	10.0		0	*		II	0	**********
Surrogate: 1-Chlorooctane		78.6 %	70-1	'30	"	ii .		at the second contract of the second of the	184 #
Surrogate: 1-Chlorooctadecane		76.0 %	70-1		16	"	ŧı	B	
SW-4 3' (5K29023-12) Soil						-			-
Benzene	ND	0.0250	mg/kg dry	25	EK53002	11/30/05	11/30/05	EPA 8021B	
Toluene	ND	0.0250	#	**	**		(ı	n	
Ethylbenzen e	ND	0.0250	p	"	v	u	п	u	
Xylene (p/m)	ND	0.0250		h	**	n	0	u	
Xylene (o)	ND	0.0250		и.	*	a	•	"	
Surrogate: a,a,a-Trifluorotoluene	american pri speti i i i mirribri pravina separi separi a american	97.0 %	~~~~~~~~~~~	120	"	н	"	ti	
Surrogate: 4-Bromofluorobenzene		90.2 %			"	,,	,,	,,	
Gasoline Range Organics C6-C12	ND		mg/kg dry	1	EK53001	11/30/05	11/30/05	EPA 8015M	
Diesel Range Organics >C12-C35	ND	10.0		**	"	"		"	
Total Hydrocarbon C6-C35	ND	10.0	,,	n	11	n	¥		
Surrogate: 1-Chlorooctane		92.8 %		130	"	"	"	If	
Surrogate: 1-Chlorooctadecane		90.4 %			"	,,	4	н	
SW-5 3' (5K29023-13) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EK53002	11/30/05	11/30/05	EPA 8021B	
Toluene	ND	0.0250		u u	Ħ	n	11	n	
Ethylbenzene	ND	0.0250		n	*	U	11	D	
Xylene (p/m)	ND	0.0250		9	**	u	u	It	
Kylene (o)	ND	0.0250		*	**	11	li .	n	
Surrogate: a,a,a-Trifluorotoluene	<u> </u>	97.0 %		120	"	n		"	TOTAL CONTRACT TO A CONTRACT OF
Surrogate: 4-Bromofluorobenzene		86.0 %			"	"	,,	н	
Gasoline Range Organics C6-C12	ND		mg/kg dry	120	EK53001	11/30/05	11/30/05	EPA 8015M	
Diesel Range Organics >C12-C35	ND	10.0			# #	11/30/03	"	EFM OUTSIN	
Total Hydrocarbon C6-C35	ND	10.0		,,	**	u	н	 H	

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P.O. Box 1558 Eunice NM, 88231 Project: Chesapeake/ SV Chipshot

Project Number: 160037
Project Manager: Iain Olness

Fax: 505-394-2601

Reported: 12/01/05 08:25

Organics by GC Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SW-5 3' (5K29023-13) Soil					·····				
Surrogate: 1-Chlorooctane		79.4 %	70-	130	EK53001	11/30/05	11/30/05	EPA 8015M	
Surrogate: 1-Chlorooctadecane		79.0 %	70-	130	"	"	"	"	
SW-6 3' (5K29023-14) Soil			_						
Benzene	ND	0.0250	mg/kg dry	25	EK53002	11/30/05	11/30/05	EPA 8021B	
Toluene	ND	0.0250	n	11	W	U		D	
Ethylbenzene	ND	0.0250	"	"	11	. *	•	**	
Xylene (p/m)	ND	0.0250	ч	н	"	o o	u	н	
Xylene (o)	ДИ	0.0250	11	It .		U	ti	1)	
Surrogate: a,a,a-Trifluorotoluene		98.0 %	80-	120	. 4	"	"	"	
Surrogate: 4-Bromoftuorobenzene		85.8 %	80-	120	er .	**	n	•	
Gasoline Range Organics C6-C12	ND	10.0	mg/kg dry	1	EK53001	11/30/05	11/30/05	EPA 8015M	
Diesel Range Organics >C12-C35	ND	10.0	h	u	n	u	*	*	
Total Hydrocarbon C6-C35	ND	10.0	×	ь	н	U	n	"	
Surrogate: 1-Chlorooctane		93.2 %	70-	130	п	v	"	"	
Surrogate: 1-Chlorooctadecane		91.6%	70-	130	"	ı	"	n	
SW-7 3' (5K29023-15) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EK53002	11/30/05	11/30/05	EPA 8021B	
Toluene	ND	0.0250	14	II	н	a	n	#	
Ethylbenzene	ND	0.0250	n	ρ	u	n	þ	п	
Xylene (p/m)	ND	0.0250	h	41	u	at .	и	u	
Xylene (o)	ND	0.0250	*	Ħ	u	и	"	ú	
Surrogate: a.a.a-Trifluorotoluene		102 %	80-	120	,,	"	N	"	
Surrogate: 4-Bromofluorobenzene		86.0 %	80-	120	**	ø	п	"	
Gasoline Range Organics C6-C12	ND	10.0	mg/kg dry	1	EK53001	11/30/05	12/01/05	EPA 8015M	
Diesel Range Organics >C12-C35	ND	10.0	и	41	0	n	Ħ	rt	
Total Hydrocarbon C6-C35	ND	10.0	h	Þ	н	41	n	н	
Surrogate: 1-Chlorooctane		84.4 %	70-	130	"	"	p	,11	
Surrogate: 1-Chlorooctadecane		83.6 %	70-	130	,,	,,	u	"	

Environmental Plus, Incorporated P.O. Box 1558

Eunice NM, 88231.

Project: Chesapeake/ SV Chipshot

Project Number: 160037 Project Manager: Iain Olness Fax: 505-394-2601 Reported: 12/01/05 08:25

Organics by GC **Environmental Lab of Texas**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Note
Analyte SW-8 3' (5K29023-16) Soil				-indion	vatCll	. repared	Charged	wichildd	1400
	110	0.0000	matter 4	25	DV 52000	110000	11/20/0-	EDV BUSIN	
Benzene	ND		mg/kg dry	25 "	EK53002	11/30/05	11/30/05	EPA 8021B	
Toluene	ND	0.0250	H	11		H			
Ethylbenzene	ND	0.0250			u u		**	a _	
Xylene (p/m)	ND	0.0250		*	(1	"			
Xylene (o)	ND	0.0250	"	#	lt	11		11	
Surrogate: a,a,a-Trifluorotoluene		97.8 %	80-1		"	n	Ħ	"	
Surrogate: 4-Bromofluorobenzene		89.2 %	80-1	'20	u	n	#	"	
Gasoline Range Organics C6-C12	ND		mg/kg dry	1	EK53001	11/30/05	12/01/05	EPA 8015M	
Diesel Range Organics >C12-C35	ND	10.0	n	#		n	ft.	rr r	
Total Hydrocarbon C6-C35	ND	10.0		#1	H .	II		Harris on the same determined administration of the same of the sa	
Surrogate: 1-Chlorooctane		83.0 %	70-1	'30	"	/1	"	H	
Surrogate: 1-Chlorooctadecane		82.6 %	70-1	130	pr	ь	27	"	
SW-9 3' (5K29023-17) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EK53002	11/30/05	11/30/05	EPA 8021B	
Toluene	ND	0.0250	h	P	"	11	11	4	
Ethylbenzene	ND	0.0250	14	**	p	11	и	н	
Xylene (p/m)	ND	0.0250	4	**	**	u	14	ıı	
Xylene (o)	ND	0.0250	11		h	ŧŧ	Tr.	ij	
Surrogate: a,a,a-Trifluorotoluene	.,	89.8 %	80-1	120	,,		"		
Surrogate: 4-Bromofluorobenzene		81.2 %	80-1		"	,,	"	n	
Gasoline Range Organics C6-C12	ND		mg/kg dry	1	EK53001	11/30/05	12/01/05	EPA 8015M	
Diesel Range Organics >C12-C35	ND	10.0	u	"	h	11750705	12/01/03	"	
Total Hydrocarbon C6-C35	ND	10.0	a	q	n	u	н	"	
Surrogate: I-Chlorooctane	- -	79.6%	70-1	130		"	"	# # Parameter Pa	
Surrogate: 1-Chlorooctadecane		77.8 %	70-1 70-1		,,	"	n	,,	
SW-10 3' (5K29023-18) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EK53002	11/30/05	11/30/05	EPA 8021B	
Toluene	ND	0.0250	"	н	tr	u	4	II	
Ethylbenzene	ND	0.0250	w	и	Ħ	μ	н	и	
Xylene (p/m)	ND	0.0250	•	н	Ħ	u	11	i)	
Xylene (o)	ND	0.0250		n	n	n	b	и	
Surrogate: a,a,a-Trifluorotoluene		92.0 %		120	"	n	"	#	moneyer tree, , ,,
Surrogate: 4-Bromofluorobenzene		83.8 %			"	,,	"	н	
Gasoline Range Organics C6-C12	ND		mg/kg dry	1	EK53001	11/30/05	12/01/05	EPA 8015M	
Diesel Range Organics >C12-C35	ND	10.0		1	" ·	"	12/01/03	" "	
Total Hydrocarbon C6-C35	ND	10.0		Ħ	Ħ	н	•	и	

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P.O. Box 1558 Eunice NM, 88231 Project: Chesapeake/SV Chipshot

Project Number: 160037 Project Manager: Iain Olness Fax: 505-394-2601

Reported: 12/01/05 08:25

Organics by GC **Environmental Lab of Texas**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SW-10 3' (5K29023-18) Soil		A						······································	
Surrogate: 1-Chlorooctane		79.0 %	70-	130	EK53001	11/30/05	12/01/05	EPA 8015M	
Surrogate: 1-Chlorooctadecane		79.0 %	70-	130	n	"	u	ıt	
SW-11 1' (5K29023-19) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EK53002	11/30/05	11/30/05	EPA 8021B	
Toluene	ND	0.0250		đ	"	H	0	lr.	
Ethylbenzene	ND	0.0250	i)	"	19	•	lt	*	
Xylene (p/m)	ND	0.0250		u	н	11	**	*	
Xylene (o)	ND	0.0250	π	P	11		**	4	
Surrogate: a,a,a-Trifluorotoluene		80.8 %	80-	120	"	"	"	,,	
Surrogate: 4-Bromofluorobenzene		80.8 %	80-	120	**	•	"	"	
Gasoline Range Organics C6-C12	ND	10.0	mg/kg dry	1	EK53001	11/30/05	12/01/05	EPA 8015M	
Diesel Range Organics >C12-C35	ND	10.0	n		Ħ	H		6	
Total Hydrocarbon C6-C35	ND	10.0	n	· ·	н	n	u	н	
Surrogate: I-Chlorooctane		81.4 %	70-	130	47	"	**	"	*
Surrogate: 1-Chlorooctadecane		78.0 %	70-	130	u	97	"	"	
SW-12 1' (5K29023-20) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EK53002	11/30/05	11/30/05	EPA 8021B	
Toluene	ND	0.0250	n	4	u	11	h	Ħ	
Ethylbenzene	ND	0.0250	ы	и		u	u	#	
Xylene (p/m)	ND	0.0250	D	19	,,	u	u	11	
Xylene (o)	ND	0.0250	'n	ır	μ	ıı	**	P	
Surrogate: a,a,a-Trifluorotoluene		93.8 %	80-	120	"	"	1/	"	
Surrogate: 4-Bromofluorobenzene		81.8 %	80-	-120	1 7	"	"	0	
Gasoline Range Organics C6-C12	ND	10.0	mg/kg dry	1	EK53001	11/30/05	12/01/05	EPA 8015M	
Diesel Range Organics >C12-C35	ND	0.01	**	u	Ħ	u	n	u	
Total Hydrocarbon C6-C35	ND	10.0	•	\$1	н	u	0	ū	
Surrogate: 1-Chlorooctane		80.4 %	70-	-130	11	"	"	7	effect common for the same
Surrogate: 1-Chlorooctadecane		78.2 %	70-	130	10	"	**	•	

P.O. Box 1558 Eunice NM, 88231 Project: Chesapeake/ SV Chipshot

Project Number: 160037
Project Manager: Iain Olness

Fax: 505-394-2601 Reported: 12/01/05 08:25

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BH-1 12' (5K29023-01) Soil									
Chloride	269	10.0	mg/kg	20	EK53014	11/30/05	11/30/05	EPA 300.0	
% Moisture	13.8	0.1	%	1	EK53003	11/29/05	11/30/05	% calculation	
Sulfate	73.6	10.0	mg/kg	20	EK53014	11/30/05	11/30/05	EPA 300.0	
BH-2 10' (5K29023-02) Soil									
Chloride	1200	20.0	mg/kg	40	EK53014	11/30/05	11/30/05	EPA 300.0	
% Moisture	12.6	0.1	%	1	EK53003	11/29/05	11/30/05	% calculation	
Sulfate	75.1	20.0	mg/kg	40	EK53014	11/30/05	11/30/05	EPA 300.0	
BH-3 6' (5K29023-03) Soil									
Chloride	1250	20.0	mg/kg	40	EK53014	11/30/05	11/30/05	EPA 300.0	
% Moisture	15.7	0.1	%	1	EK53003	11/29/05	11/30/05	% calculation	
Sulfate	163	20.0	mg/kg	40	EK53014	11/30/05	11/30/05	EPA 300.0	
BH-4 6' (5K29023-04) Soil									
Chloride	103	5.00	mg/kg	10	EK53014	11/30/05	11/30/05	EPA 300.0	
% Moisture	6.4	0.1	%	1	EK53003	11/29/05	11/30/05	% calculation	
Sulfate	120	5.00	mg/kg	10	EK53014	11/30/05	11/30/05	EPA 300.0	
BH-5 6' (5K29023-05) Soil									
Chloride	908	20.0	mg/kg	40	EK53014	11/30/05	11/30/05	EPA 300.0	
% Moisture	9.4	0.1	%	1	EK53003	11/29/05	11/30/05	% calculation	
Sulfate	69.3	20.0	mg/kg	40	EK53014	11/30/05	11/30/05	EPA 300.0	
BH-6 6' (5K29023-06) Soil									
Chloride	529	10.0	mg/kg	20	EK53014	11/30/05	11/30/05	EPA 300.0	
% Moisture	10.7	0.1	%	1	EK53003	11/29/05	11/30/05	% calculation	
Sulfate	52.1	10.0	mg/kg	20	EK53014	11/30/05	11/30/05	EPA 300.0	

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Project Number: 160037 Project Manager: Iain Olness Fax: 505-394-2601

Reported: 12/01/05 08:25

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Note
BH-7 7' (5K29023-07) Soil									
Chloride	428	10.0	mg/kg	20	EK53014	11/30/05	11/30/05	EPA 300.0	
% Moisture	9.7	0.1	%	ì	EK53003	11/29/05	11/30/05	% calculation	
Sulfate	88.6	10.0	mg/kg	20	EK53014	11/30/05	11/30/05	EPA 300.0	
BH-8 6' (5K29023-08) Soil									
Chloride	317	10.0	mg/kg	20	EK53014	11/30/05	11/30/05	EPA 300.0	
% Moisture	8.6	0.1	%	1	EK53003	11/29/05	11/30/05	% calculation	
Sulfate	53.2	10.0	mg/kg	20	EK53014	11/30/05	t 1/30/05	EPA 300.0	
SW-1 7' (5K29023-09) Soil									
Chloride	219	10.0	mg/kg	20	EK53014	11/30/05	11/30/05	EPA 300.0	
% Moisture	7.2	0.1	%	1	EK53003	11/29/05	11/30/05	% calculation	
Sulfate	68.3	10.0	mg/kg	20	EK53014	11/30/05	11/30/05	EPA 300,0	
SW-2 6' (5K29023-10) Soil									
Chloride	831	20.0	mg/kg	40	EK53014	11/30/05	11/30/05	EPA 300.0	
% Moisture	7.9	0.1	%	1	EK53003	11/29/05	11/30/05	% calculation	
Sulfate	91.4	20.0	mg/kg	40	EK53014	11/30/05	11/30/05	EPA 300.0	
SW-3 3' (5K29023-11) Soil									
Chloride	984	20.0	mg/kg	40	EK53014	11/30/05	11/30/05	EPA 300.0	
% Moisture	5.9	0.1	%	1	EK53003	11/29/05	11/30/05	% calculation	
Sulfate	68.8	20.0	mg/kg	40	EK53014	11/30/05	11/30/05	EPA 300.0	
SW-4 3' (5K29023-12) Soil									
Chloride	241	10.0	mg/kg	20	EK53014	11/30/05	11/30/05	EPA 300.0	
% Moisture	6.2	0.1	%	1	EK53003	11/29/05	11/30/05	% calculation	
Sulfate	40.3	10.0	mg/kg	20	EK53014	11/30/05	11/30/05	EPA 300.0	

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Project Number: 160037 Project Manager: Iain Olness Fax: 505-394-2601 Reported: 12/01/05 08:25

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SW-5 3' (5K29023-13) Soil				Dilacion	Dutti	Topaco	Analyzeu	Wichiou	14000
	****	20.0						EDA 200.0	
Chloride	1070	20.0	mg/kg	40	EK53014	11/30/05	11/30/05	EPA 300.0	
% Moisture	10.7	0.1	%	1	EK53003	11/29/05	11/30/05	% calculation	
Sulfate	72.2	20.0	mg/kg	40	EK53014	11/30/05	11/30/05	EPA 300.0	
SW-6 3' (5K29023-14) Soil									
Chloride	246	10.0	mg/kg	20	EK53014	11/30/05	11/30/05	EPA 300.0	
% Moisture	7.1	0.1	%	1	EK53003	11/29/05	11/30/05	% calculation	
Sulfate	46.9	10.0	mg/kg	20	EK53014	11/30/05	11/30/05	EPA 300.0	
SW-7 3' (5K29023-15) Soil									
Chloride	252	10.0	mg/kg	20	EK53014	11/30/05	11/30/05	EPA 300.0	
% Moisture	7.1	0.1	%	1	EK53003	11/29/05	11/30/05	% calculation	
Sulfate	43.7	10.0	mg/kg	20	EK53014	11/30/05	11/30/05	EPA 300.0	
SW-8 3' (5K29023-16) Soil									
Chloride	318	10.0	mg/kg	20	EK53014	11/30/05	11/30/05	EPA 300.0	
% Moisture	5.5	0.1	%	1	EK53003	11/29/05	11/30/05	% calculation	
Sulfate	37.8	10.0	mg/kg	20	EK53014	11/30/05	11/30/05	EPA 300.0	
SW-9 3' (5K29023-17) Soil									
Chloride	236	10.0	mg/kg	20	EK53014	11/30/05	£1/30/05	EPA 300.0	
% Moisture	9.0	0.1	%	1	EK53003	11/29/05	11/30/05	% calculation	
Sulfate	43.8	10.0	mg/kg	20	EK53014	11/30/05	11/30/05	EPA 300.0	
SW-10 3' (5K29023-18) Soil									
Chloride	129	10.0	mg/kg	20	EK.53014	11/30/05	11/30/05	EPA 300.0	
% Moisture	8.2	0.1	%	1	EK53003	11/29/05	11/30/05	% calculation	
Sulfate	1080	10.0	mg/kg	20	EK53014	11/30/05	11/30/05	EPA 300.0	

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Project Number: 160037
Project Manager: Iain Olness

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Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SW-11 1' (5K29023-19) Soil									
Chloride	3170	50.0	mg/kg	100	EK53014	11/30/05	11/30/05	EPA 300.0	
% Moisture	16.1	0.1	%	1	EK53003	11/29/05	11/30/05	% calculation	
Sulfate	159	50.0	mg/kg	100	EK53014	11/30/05	11/30/05	EPA 300.0	
SW-12 1' (5K29023-20) Soil									
Chloride	492	10.0	mg/kg	20	EK53014	11/30/05	11/30/05	EPA 300.0	
% Moisture	17.6	0.1	%	1	EK53003	11/29/05	11/30/05	% calculation	
Sulfate	83.1	10.0	mg/kg	20	EK53014	11/30/05	11/30/05	EPA 300.0	

P.O. Box 1558 Eunice NM, 88231 Project: Chesapeake/ SV Chipshot

Project Number: 160037 Project Manager: Iain Olness Fax: 505-394-2601

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EK53001 - Solvent Extraction	(GC)									-
Blank (EK53001-BLK1)				Prepared	& Analyzo	ed: 11/30/0	05			··
Gasoline Range Organics C6-C12	ND	10.0	mg/kg wet	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~			enn udflikken. I ha krigiungan yangi y	** ** ******** ** ********************	the the space and and the second	
Diesel Range Organics >C12-C35	ND	10.0	U							
Total Hydrocarbon C6-C35	ND	10.0	ч							
Surrogate: 1-Chlorooctane	42.0	***************************************	mg/kg	50.0		84.0	70-130			wrone for a self-transfer and a self-transfer.
Surrogate: 1-Chlorooctadecane	40.9		"	50.0		81.8	70-130			
LCS (EK53001-BS1)				Prepared	& Analyzo	ed: 11/30/0	05			
Gasoline Range Organics C6-C12	382	10.0	mg/kg wet	500		76.4	75-125			***************************************
Diesel Range Organics >C12-C35	549	10.0	•	500		110	75-125			
Total Hydrocarbon C6-C35	931	10.0	H	1000		93.1	75-125			
Surrogate: 1-Chlorooctane	42.9		mg/kg	50.0	,,	85.8	70-130			
Surrogate: 1-Chlorooctadecane	44.5		"	50.0		89.0	70-130			
Calibration Check (EK53001-CCV1)				Prepared:	11/30/05	Analyzed	1: 12/01/05			
Gasoline Range Organics C6-C12	407		mg/kg	500		81,4	80-120			
Diesel Range Organics >C12-C35	508		,	500		102	80-120			
Total Hydrocarbon C6-C35	915		tt	1000		91.5	80-120			
Surrogate: 1-Chlorooctane	56.8		н	50.0		114	70-130			
Surrogate: 1-Chlorooctadecane	53.8		"	50.0		108	70-130			
Matrix Spike (EK53001-MS1)	So	urce: 5K29(23-01	Prepared	& Analyze	ed: 11/30/	05			
Gasoline Range Organics C6-C12	492	10.0	mg/kg dry	580	ND	84.8	75-125		#1 * . ## # *** ** * * * * * * * * * * * *	1 f. c. 110 (110 (11) 12) 13 (11) 14 (11)
Diesel Range Organics >C12-C35	615	10.0	*	580	ND	106	75-125			
Total Hydrocarbon C6-C35	1110	10.0	u	1160	ND	95.7	75-125			
Surrogate: 1-Chlorooctane	53.8	***************************************	mg/kg	50.0		108	70-130			
Surrogate: 1-Chlorooctadecane	51.5		u	50.0		103	70-130			
Matrix Spike Dup (EK53001-MSD1)	So	urce: 5 K2 90	23-01	Prepared	& Analyzo	ed: 11/30/0	05			
Gasoline Range Organics C6-C12	506	10.0	mg/kg dry	580	ND	87.2	75-125	2.81	20	***************************************
Diesel Range Organics >C12-C35	626	10.0	n	580	ND	108	75-125	1.77	20	
Total Hydrocarbon C6-C35	1130	10.0	n	1160	ND	97.4	75-125	1.79	20	
Surrogate: 1-Chlorooctane	54.6		mg/kg	50.0		109	70-130			orma pres proces
Surrogate: 1-Chlorooctadecane	51,1		"	50.0		102	70-130			

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Project Number: 160037
Project Manager: Iain Olness

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Organics by GC - Quality Control Environmental Lab of Texas

Analyte	Result	Reporting Limit		Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EK53002 - EPA 5030C (GC)				······································						
Blank (EK53002-BLK1)				Prepared	& Analyze	d: 11/30/0	05			
Benzene	ND	0.0250	mg/kg wet							***************************************
Toluene	ND	0.0250	"							
Ethylbenzene	ND	0.0250	ij							
Xylene (p/m)	ND	0.0250	11							
Xylene (o)	ND	0.0250	11							
Surrogate: a,a.a-Trifluorotoluene	42.8	<u> </u>	ug/kg	40.0		107	80-120			
Surrogate: 4-Bromofluorobenzene	<i>36.3</i>		u	40.0		90.8	80-120			
LCS (EK53002-BS1)				Prepared	& Analyze	d: 11/30/0)5			
Benzene	0.0444	0.00100	mg/kg wet	0.0500		88.8	80-120			
Toluene	0.0537	0.00100	#	0.0500		107	80-120			
Ethylbenzene	0.0567	0.00100	ti.	0.0500		113	80-120			
Xylenc (p/m)	0.105	0.00100	u	0.100		105	80-120			
Xylene (o)	0.0557	0.00100	p	0.0500		111	80-120			
Surrogate: a,a,a-Trifluorotoluene	45.6	····	ug/kg	40.0		114	80-120			
Surrogate: 4-Bromofluorobenzene	42.9		n	40.0		107	80-120			
Calibration Check (EK53002-CCV1)				Prepared	& Analyze	d: 11/30/0)5			
Benzene	0.0403		mg/kg wet	0.0500		80.6	80-120			
Toluene	0.0444		n	0.0500		8.88	80-120			
Ethylbenzene	0.0430		U	0.0500		86.0	80-120			
Xylene (p/m)	0.0836		Ħ	0.100		83.6	80-120			
Xylene (o)	0.0426		n	0.0500		85.2	80-120			
Surrogate: a,a,a-Trifluorotoluene	39.9	·	ug/kg	40.0		99.8	80-120		and the second second second	
Surrogate: 4-Bromofluorobenzene	32.5		ų	40.0		81.2	80-120			
Matrix Spike (EK53002-MS1)	So	urce: 5K29(23-01	Prepared a	& Analyze	d: 11/30/0)5			
Benzene	0.0491	0.00100	mg/kg dry	0.0580	ND	84.7	80-120			· · · · · · · · · · · · · · · · ·
Toluene	0.0565	0.00100	D	0.0580	ND	97.4	80-120			
Ethylbenzene	0.0582	0.00100	*	0.0580	ND	100	80-120			
Xylene (p/m)	0.109	0.00100	ч	0.116	ND	94.0	80-120			
Xylene (o)	0.0572	0.00100	,,	0.0580	ND	98.6	80-120			
Surrogate: a,a,a-Trifluorotoluene	41.1		ug/kg	40.0		103	80-120			the state of the s
Surrogate: 4-Bromofluorobenzene	38.1		"	40.0		95.2	80-120			

P.O. Box 1558 Eunice NM, 88231 Project: Chesapeake/ SV Chipshot

Project Number: 160037 Project Manager: Iain Olness Fax: 505-394-2601

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Organics by GC - Quality Control Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EK53002 - EPA 5030C (GC)	*****							يسبع		-
Matrix Spike Dup (EK53002-MSD1)	So	urce: 5K290	23-01	Prepared	& Analyze	ed: 11/30/	05			
Benzene	0.0467	0.00100	mg/kg dry	0.0580	ND	80.5	80-120	5.08	20	2
Toluene	0.0531	0.00100		0.0580	ND	91.6	80-120	6.14	20	
Ethylbenzene	0.0551	0.00100	r	0.0580	ND	95.0	80-120	5.13	20	
Xylene (p/m)	0.104	0.00100	н	0.116	ND	89.7	80-120	4.68	20	
Xylene (o)	0.0545	0.00100	U	0.0580	ND	94.0	80-120	4.78	20	
Surrogate: a,a.a-Trifluorotoluene	40.3	·	ug/kg	40.0		101	80-120			~,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
Surrogate: 4-Bromofluorobenzene	35.9		n	40.0		89.8	80-120			

Project: Chesapeake/ SV Chipshot

Fax: 505-394-2601

P.O. Box 1558 Eunice NM, 88231 Project Number: 160037

Project Manager: Iain Olness

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EK53003 - General Preparation	(Prep)			***************************************	···,					
Blank (EK53003-BLK1)				Prepared:	11/29/05	Analyzed	: 11/30/05			-
% Solids	100		%					of the morney of a verter		
Duplicate (EK53003-DUP1)	So	urce: 5K290	01-01	Prepared:	11/29/05	Analyzed	: 11/30/05			
% Solids	81.0		%		82.0			1.23	20	
Batch EK53014 - Water Extraction										
Blank (EK53014-BLK1)				Prepared	& Analyzo	ed: 11/30/0	05			
Sulfate	ND	0.500	mg/kg					**************************************		manyor again a security of the security of
Chloride	ND	0.500	**							
LCS (EK53014-BS1)				Prepared	& Analyze	ed: 11/30/()5			
Chloride	8.09	<u> </u>	mg/L	10.0		80.9	80-120	,,		
Sulfate	8.73		"	10.0		87.3	80-120			
Calibration Check (EK53014-CCV1)				Prepared a	& Analyze	ed: 11/30/0)5			
Sulfate	9.36		m g/ L	10.0		93.6	80-120			
Chloride	8.58		D	10.0		85.8	80-120			
Duplicate (EK53014-DUP1)	Sou	urce: 5K2902	23-01	Prepared a	& Analyza	ed: 11/30/0)5			
Sulfate	73.9	10.0	mg/kg		73.6			0.407	20	and the second second second second
Chloride	256	10.0	p		269			4.95	20	

Environmental Plus, Incorporated Project: Chesapeake/ SV Chipshot P.O. Box 1558 Project Number: 160037 Reported: Eunice NM, 88231 Project Manager: Iain Olness 12/01/05 08:25

Notes and Definitions

The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or S-06 matrix interference's. The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect. S-04 DET Analyte DETECTED Analyte NOT DETECTED at or above the reporting limit ND NR Not Reported Sample results reported on a dry weight basis dry Relative Percent Difference RPD LCS Laboratory Control Spike MS Matrix Spike Duplicate Dup

Report Approved By: Kaland & Julb Date: 12-01-05

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.

Chain of Custody Form

Environmental Plus, Inc.

2100 Avenue O, Eunice, NM 88231 (505) 394-3481 FAX: (505) 394-2601

P.O. Box 1558, Eunice, NM 88231

F.O. BOX 1558 Elmice New Mexico 88231 Elmice New Mexico New	Company Name EPI Project Manager	Environmer lain Olness	Environmental Plus, Inc.	<u>ي</u>								Bil	ВШТО			H			<u> </u>		ANALYSISIREQUEST	ŀ	
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P.O. Box 1558		New P	Aexico (3823	_						a	-VIII				~~~							
Attn: lain Olness	EPI Phone#/Fax# 505-394-3481	-3481	/ 505-3	94-2	601		<u> </u>						<u>L</u>								_		
6 S, R 36 E Attn: lain Olness 6 S, R 36 E Attn: lain Olness P.O. Box 1558 P.O. Box 1558 P.O. DATE SAMPLING P.O. DATE SAMPLING P.O. DATE S.O. Box 25-Nov-05 P.O. DATE P.O. DATE	Chesapeake Energy	ake E	nergy									jane.				*******							
Attn: lain Olness P.O. Box 1558 P.O. Box 1558 P.O. Box 1558 P.O. Box 1558 Eunice, NM 88231 MATRIX Bunice, NM 88231 MATRIX MATRIX Bunice, NM 88231 MATRIX AND 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	"SV" Chipshot	ipsh	iot									•				***************************************							
Р.О. Вох 1558	UL-K, Sect. 11, T 16 S,	ect.	11, T 16 t	н	36 E						Attn	ı: Jaii	n Olness										
Eunice, NM 88231 МАТЯНХ МЕТЯНХ МЕТ	Project Reference 160037										<u>q</u>	Ö.	ox 1558										
MATRIX MATRIX	EPI Sampler Name George Blackburn	Blac	kburn								Euni	ice, I	NM 88231										
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Received By: Construct Construct																							
Sample Cool & Intact	52/1/des0	Time 4	(S)	Pecely 1	ed By	ž (M	100	٦ کم		шΖ	-mail	l results to: iolnes:	ss@envplr	s.net			i					
Checked By:	Out of other		265		Ba By:	(arbs)	(CO.D.)	1 2	,				ر ک	15T	_								
			Sample (Cool &	Intact No			₹ Δ ;;	ecked	.;.			Pob/cen	\ ~ _									

Chain of Custody Form

Environmental Plus, Inc.

2100 Avenue O, Eunice, NM 88231 (505) 394-3481 FAX: (505) 394-2601

P.O. Box 1558, Eunice, NM 88231

ANALYSISIREQUEST												ТРН 8015М СН СОВПРЕS (SO4") БИ ТС LP ТС LP ТС LP ТО НЕВ >>>	×××	X X X				×	XXX			XXXX	et		
											5	E BTEX 8021B	12:10 X	12:20 X	12:30 X	12:40 X	12:50 X		13:10 X	13:20 X	13:30 X	13:40 X	s@envplus.r	1	
0.			لم		•		Attai lain Olagea	OITESS 4175	P.O. Box 1558	Eunice, NM 88231	SAMPLING	DATE	29-Nov-05	29-Nov-05	29-Nov-05	29-Nov-05	29-Nov-05	29-Nov-05	29-Nov-05	29-Nov-05	29-Nov-05	29-Nov-05	E-mail results to: iolness@envplus.net NOTES:	7119	
BIII To			Į,	۳.	E				ă	Ź,	RV.	ЯЗНТО											nail r	•	
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Inc.			3823	94-2			1 -	- 1			-	-4MO(3) RO 8AR(2)	_	ຽ	5	Ö	G	IJ	G	σ	IJ	G	Receive	Receip	300 8
Environmental Plus, Inc	ness	P.O. BOX 1558	Eunice New Mexico 882	505-394-3481 / 505-394-	Chesapeake Energy	"SV" Chipshot	H. K Sect 11 T 16.5 B	- [George Blackburn		GI											1/25/05 Fine	Pr 24 0 S Receip	Sample Cool 8
Enviro		P.O. B(Eunice	505-39	Chesap	O "SV"	3 X- III	400007				SAMPLE I.D.	SW-3 (3')	2 SW-4 (3')	3 SW-5 (3')	SW-6 (3')	SW-7 (3')	SW-8 (3')	7 SW-9 (3')	8 SW-10 (3')	9 SW-11 (1')	10 SW-12 (1')) P,	
Company Name	EPI Project Manager	Mailing Address	City, State, Zip	EPI Phone#/Fax#	Client Company	Facility Name	Location	Division Defendance	Project Reference	EPI Sampler Name		LABID.2	- 1 SW	-(2 2sv	NS(E 5)-	1 4 SW	5	ws 9 5/1	NS L	NS 8 SV	ws 6 b)	-20 10 SW	Sampler Relinquished:	Relinquished by:	Delivered by:

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

Client:EPI				
Date/Time: 11/29/05 16:45				
Order #: 5k29023				
Initials:				
Sample Receipt	Checkli	st		
Temperature of container/cooler?	Yes	No I	5,0 CI	
Shipping container/cooler in good condition?	1 CES	No		
Custody Seals intact on shipping container/cooler?	Yes	No	Alot cresent	
Custody Seals intact on sample bottles?	//es	No I	Not present	
Chain of custody present?	Yes !	No	i	
Sample Instructions complete on Chain of Custody?	Yas	No		
Chain of Custody signed when relinquished and received?	Yes	No		
Chain of custody agrees with sample label(s)	Xes	No		
Container labels legible and intact?	(₹€3	No		
Sample Matrix and properties same as on chain of custody?	(es)	No		
Samcles in procer container/bottle?	Yes	No		
Samples procerly preserved?	Yes	No		
Sample bottles intact?	/es l	No	1	
Preservations documented on Chain of Custody?	Yes	No		
Containers documented on Chain of Custody?	Yes	No		
Sufficient sample amount for indicated test?	Yes	No		
All samples received within sufficient hold time?	Yes	No		
VOC samples have zero headspace?	1 Mes	No	Not Apolicable	
Other observations:				
Variance Docus Contact Person: Date/Time: Regarding:			_Contacted by:	:
Corrective Action Taken:				
•				
	•		•	



PHONE (505) 393-2326 • 101 E MARLAND • HOBBS, NM 88240

ANALYTICAL RESULTS FOR **ENVIRONMENTAL PLUS, INC.**

ATTN: IAIN OLNESS P.O. BOX 1558 **EUNICE, NM 88231** FAX TO: (505) 394-2601

Receiving Date: 12/14/05 Reporting Date: 1214/05

Project Owner: CHESAPEAKE

Project Location: CHIPSHOT BATT.

Project Name: NOT GIVEN

Analysis Date: 12/14/05 Sampling Date: 12/14/05

Sample Type: SOIL

Sample Condition: COOL & INTACT

Sample Received By: NF

Analyzed By: HM

LAB NUMBER	SAMPLE ID	CI¯ (mg/Kg)
FULL INCIDION OF THE PROPERTY		(mgmg)
H10503-1	SP1	704
H10503-2	SP2	1264
H10503-3	SP3	832
H10503-4	SP4	880
· · · · · · · · · · · · · · · · · · ·		
	· · · · · · · · · · · · · · · · · · ·	
Quality Control		1000
True Value QC		1000
% Recovery		100
Relative Percent	Difference	0.0

METHOD: Standard Methods 4500-CIB

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

Chain of Custody Form

Environmental Plus, Inc.

2100 Avenue O, Eunice, NM 88231 (505) 394-3481 FAX: (505) 394-2601

P.O. Box 1558, Eunice, NM 88231

GX351005 ANALYSIS REQUEST HVd CTHER >>> Hd SULFATES (SO.") E-mail results to: Iain Olness Ioiness@envplus.net снговірев (сц) Maros Hq1 BTEX 8021B スカン 80,00 SAMPLING 10-14-05 DATE 60-1-01 50-HI-0 10-121-01 Eunice, NM 88231 Attn: lain Olness PO Box 1558 REMARKS: PRESERV. DAIIING Mud 3 BEUDGE MATRIX CRUDE OIL TIOS Received By: (lab staf **MASTEWATER** ROUND WATER Semple Cool & Intact Yes No 505-394-3481 / 505-394-2601 # CONTAINERS Eunice New Mexico 88231 Environmental Plus, Inc. **ぺい(い) ਸ਼O &Aਸ਼(む**) ٧ Ċ Ú 72/4/65 1 30 3m P.O. BOX 1558 lain Olness SAMPLE I.D. chosopeake Ch: AShoT 503 PI **EPI Project Manager** EPI Sampler Name Project Reference EPI Phone#/Fax# Company Name Mailing Address Client Company 10 City, State, Zip Facility Name ampler Relinquished: LABID. 大いのかのか ocation-

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PHONE (505) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

ANALYTICAL RESULTS FOR ENVIRONMENTAL PLUS, INC.

ATTN: IAIN OLNESS P.O. BOX 1558 EUNICE, NM 88231 FAX TO: (505) 394-2601

Receiving Date: 12/15/05

Reporting Date: 1215/05

Project Owner: CHESAPEA

Project Owner: CHESAPEAKE Project Name: NOT GIVEN

Project Location: CHIPSHOT

Analysis Date: 12/15/05

Sampling Date: 12/15/05

Sample Type: 1)SOIL, 2)WATER
Sample Condition: COOL & INTACT

Sample Received By: NF

Analyzed By: HM

LAB NUMBER	SAMPLE ID	CI (mg/Kg)
H10506-1	SP5	* 128
		(mg/L)
H10506-2	SP6	196
Quality Control		990
True Value QC		1000
% Recovery		99
Relative Percent I	Difference	1.0

METHOD: Standard Methods 4500-CITB

Note: Analysis performed on a 1:4 w:v aqueous extract.

Chemist

Date

Chain of Custody Form

Environmental Plus, Inc.

2100 Avenue O, Eunice, NM 88231 (505) 394-3481 FAX: (505) 394-2601

P.O. Box 1558, Eunice, NM 88231

VANALYSISIREGUEST Cexas 1005 HA9 CTHER >>> d TOI Hq SULFATES (SO.") E-mail resuits to: Iain Oiness Ioiness@envplus.net REMARKS: CHTORIDES (CL) M3108 Hq1 BTEX 8021B TIME 311.8 \$ 100 m SAMPLING 18-15-05 DATE **Eunice, NM 88231** Attn: lain Olness PO Box 1558 31111C PRESERV. Drilling Mud ACID/BASE :ЯЗНТО BEUDGE MATRIX CENDE OIL 2108 **MASTEWATER** BROUND WATER Sample Cool & Intact Yes No 505-394-3481 / 505-394-2601 # CONTAINERS **Eunice New Mexico 88231** Environmental Plus, Inc. .4MO(၁) ЯО ВАЯ(อ) Ü Dar 12-05 P.O. BOX 1558 24250 Nen 112 SAMPLE I.D. lain Olness Ch10560t S EPI Project Manager **EPI Sampler Name** Project Reference EP! Phone#/Fax# Company Name Mailing Address Client Company City, State, Zip Facility Name mpier Relinquished H10506-1 LABI.D. ocation





PHONE (505) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

ANALYTICAL RESULTS FOR ENVIRONMENTAL PLUS, INC.

ATTN: IAIN OLNESS P.O. BOX 1558 **EUNICE, NM 88231**

FAX TO: (505) 394-2601

Receiving Date: 12/20/05

Reporting Date: 12/21/05 Project Owner: CHESAPEAKE Project Name: NOT GIVEN

Project Location: CHIPSHOT

Sampling Date: 12/20/05

Sample Type: SOIL

Sample Condition: COOL & INTACT

Sample Received By: BC

Analyzed By: HM

	SO₄	CI
LAB NUMBER SAMPLE ID	(mg/Kg)	(mg/Kg)
ANALYSIS DATE:	12/20/05	12/21/05
H10521-1 SP1	<1	448
H10521-2 SP2	<1*	288
H10521-3 SP3	<1	1568
Quality Control	57.87	980
True Value QC	50.00	1000
% Recovery	116	98.0
Relative Percent Difference	6.0	2.0

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

*Matrix intereference (color) observed.

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be fimited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In 1997 In all Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above-stated reasons or otherwise.





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ANALYTICAL RESULTS FOR ENVIRONMENTAL PLUS, INC. ATTN: IAIN OLNESS P.O. BOX 1558

EUNICE, NM 88231 FAX TO: (505) 394-2601

Receiving Date: 12/20/05 Reporting Date: 12/21/05

Project Owner: CHESAPEAKE
Project Name: NOT GIVEN

Project Location: CHIPSHOT

Sampling Date: 12/20/05 Sample Type: SOIL

Sample Condition: COOL & INTACT

Sample Received By: BC

Analyzed By: BC

LAB NUMBER SAMPLE ID	GRO (C ₆ -C ₁₀) (mg/Kg)	DRO (>C ₁₀ -C ₂₈) (mg/Kg)	BENZENE (mg/Kg)	TOLUENE (mg/Kg)	ETHYL BENZENE (mg/Kg)	TOTAL XYLENES (mg/Kg)
ANALYSIS DATE:	12/20/05	12/20/05	12/21/05	12/21/05	12/21/05	12/21/05
H10521-1 SP1	<10.0	<10.0	<0.005	<0.005	<0.005	<0.015
H10521-2 SP2	<10.0	<10.0	<0.005	<0.005	<0.005	<0.015
H10521-3 SP3	<10.0	<10.0	<0.005	<0.005	<0.005	<0.015
	·					
Quality Control	751	783	0.092	0.094	0.100	0.304
True Value QC	800	800	0.100	0.100	0.100	0.300
% Recovery	93.8	97.9	91.7	93.9	99.6	101.0
Relative Percent Difference	2.0	6.3	4.1	<0.1	0.6	1.2

METHODS: TPH GRO & DRO - EPA SW-846 8015 M; BTEX - SW-846 8260.

Burgess J. A. Cooke/Ph. D.

12/21/05 Date

H10521A.XLS

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above-stated reasons or otherwise.

Chain of Custody Form

Environmental Pus, Inc.

2100 Avenue O, Eunice, NM 88231 (505) 394-3481 FAX: (505) 394-2601

P.O. Box 1558, Eunice, NM 88231

City, State, Zip EPI Project Manager **EPI Sampler Name** Project Reference **Facility Name** Client Company EPI Phone#Fax# **Mailing Address** Company Name Sampler Relinquished: LAB I.D. Shut SAMPLE I.D. 4064 100 505-394-3481 / 505-394-2601 P.O. BOX 1558 lain Olness Environmental Plus, Inc. **Eunice New Mexico 88231** Time :20 km har lab 1 Sample Cool & Intabl Received By: (G)RAB OR (C)OMP # CONTAINERS **GROUND WATER** WASTEWATER SOIL MATRIX CRUDE OIL Checked By: SLUDGE OTHER: **Eunice, NM 88231** ACID/BASE Attn: lain Olness PRESERV. PO Box 1558 E-mail results to: lain Olness loiness@envplus.net BIILTO REMARKS: ICE/COOL **Drilling Mud** 12 30-05 12-20-05 20-06-68 DATE SAMPLING 8:50 TIME BTEX 8021B ć TPH 8015M MAINSIS REQUES CHLORIDES (CI) SULFATES (SO4") Ηq TCLP OTHER >>> PAH Texas1005





PHONE (505) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

ANALYTICAL RESULTS FOR ENVIRONMENTAL PLUS, INC.

ATTN: IAIN OLNESS

P.O. BOX 1558 EUNICE, NM 88231 FAX TO: (505) 394-2601

Receiving Date: 12/20/05

Sampling Date: 12/20/05

Reporting Date: 12/23/05

Sample Type: SOIL

Project Owner: CHESAPEAKE ENERGY

SADEAKE ENEDGY Sample Co

Project Name: NOT GIVEN

Sample Condition: COOL & INTACT

Sample Received By: BC

Project Location: CHIPSHOT

Analyzed By: HM

		SO₄	CI
LAB NUMBER	SAMPLE ID	(mg/Kg)	(mg/Kg)

ANALYSIS DATE:	12/20/05	12/20/05
H10522-1 SP4	<1	160
H10522-2 SP5	14	1663
Quality Control	51.24	990
True Value QC	50.00	1000
% Recovery	102	99.0
Relative Percent Difference	13.3	0

	· · · · · · · · · · · · · · · · · · ·	
METHODS: EPA 600/4-79-020	375.4	SM 4500 CFB

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

Chemist

Date





PHONE (505) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

ANALYTICAL RESULTS FOR ENVIRONMENTAL PLUS, INC. ATTN: IAIN OLNESS

P.O. BOX 1558 EUNICE, NM 88231 FAX TO: (505) 394-2601

Receiving Date: 12/20/05 Reporting Date: 12/2305 Project Owner: CHESAPEAKE

Project Owner: CHESAPEAKE Project Name: NOT GIVEN Project Location: CHIPSHOT Sampling Date: 12/20/05 Sample Type: SOIL

Sample Condition: COOL & INTACT

Sample Received By: BC

Analyzed By: BC

LAB NUMBER SAMPLE ID	GRO (C_{6} - C_{10}) (mg/Kg)	DRO (>C ₁₀ -C ₂₈) (mg/Kg)	BENZENE (mg/Kg)	TOLUENE (mg/Kg)	ETHYL BENZENE (mg/Kg)	TOTAL XYLENES (mg/Kg)
ANALYSIS DATE:	12/22/05	12/22/05	12/22/05	12/22/05	12/22/05	12/22/05
H10522-1 SP4	<10.0	<10.0	< 0.005	<0.005	<0.005	<0.015
H10522-2 SP5	<10.0	<10.0	<0.005	<0.005	<0.005	<0.015
Quality Control	761	786	0.098	0.095	0.100	0.304
True Value QC	800	800	0.100	0.100	0.100	0.300
% Recovery	95.2	98.2	97.6	94.6	99.6	101.0
Relative Percent Difference	0.1	0.1	6.1	0.7	0.2	1

METHODS: TPH GRO & DRO - EPA SW-846 8015 M; BTEX - SW-846 8260.

Burges J. A. Cooke. Ph. D.

Date

H10522A.XLS

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Chain of Custody Form

Environmental Plus, Inc.

2100 Avenue O, Eunice, NM 88231 (505) 394-3481 FAX: (505) 394-2601

P.O. Box 1558, Eunice, NM 88231

30012BX9 ANALYSIS REQUESIT <<< ABHTO Hd E-mail results to: Iain Oiness loiness@envplus.net (C,OS) SETARIUS M3108 H97 BTEX 8021B TIME SAMPLING 50.05.07 DATE Attn: lain Olness Eunice, NM 88231 PO Box 1558 BILLTO REMARKS: DUNING Mud PRESERV. CENCOOF SLUDGE MATRIX CRUDE OIL Received By: (lab staff) **NASTEWATER** BROUND WATER Sample Cool & Intack 505-394-3481 / 505-394-2601 * SABNIATNOD **Eunice New Mexico 88231** Environmental Plus, Inc. .9RAB OR (C)OMP. U 1 25 AM 200 St - 130 09 P.O. BOX 1558 Ch 85000 ally lain Olness SAMPLE I.D. Ch. 15hor 1005 EPI Project Manager **EPI Sampler Name** Project Reference EPI Phone#/Fax# Company Name Mailing Address Client Company City, State, Zip sampler Relinquished: -acility Name ocation



LABORATORY TEST REPORT PETTIGREW & ASSOCIATES, P.A.

1110 N. GRIMES HOBBS, NM 88240 (505) 393-9827



DEBRA P. HICKS, P.E./L.S.I. WILLIAM M. HICKS. III, P.E./P.S.

To:

Environmental Plus

Attn: Roger Boone P.O. Box 1558

Eunice, NM 88231

Test Method:

Material:

Red Clay

Project:

SV Chip Shot

Project No. 2005.1060

ASTM: D 2922

Date of Test:

December 22, 2005

Depth:

6' Below Finished Subgrade

Test No.	Location	Dry Density % Maximum	% Moisture	Depth
SG 9	20' E. & 20' N. of the SW Corner	102.0	13.2	
SG 10	15' S. & 15' E. of the NE Corner	103.6	13.2	
SG 11	20' S. & 45' E. of the NE Corner	105.0	12.9	

Control Density:

106.0

ASTM: D 698

Optimum Moisture:

18.8%

Required Compaction:

95%

Lab No.:

05 11302-11305

PETTIGREW & ASSOCIATES

Copies To:

Enviromental Plus

BY: Dunko

P.E



LABORATORY TEST REPORT PETTIGREW & ASSOCIATES, P.A.

1110 N. GRIMES HOBBS, NM 88240 (505) 393-9827



DEBRA P. HICKS, P.E./L.S.I. WILLIAM M. HICKS. III, P.E./P.S.

To:

Environmental Plus

Attn: Roger Boone

P.O. Box 1558 Eunice, NM 88231 Material:

Test Method:

Red Clay

Project:

SV Chip Shot

Project No. 2005.1060

ASTM: D 2922

Date of Test:

December 22, 2005

Depth:

5' Below Finished Subgrade

Reading Depth:

: 1'

Test No.	Location	Dry Density % Maximum	% Moisture	Depth
SG 12	15' S. & 15' E. of the NW Comer	99.2	13.6	
SG 13	25' W. & 15' N. of the SE Corner	100.0	12.9	
SG 14	35' E. & 15' S. of the NW Corner	104.0	13.1	

Control Density:

106.0

ASTM: D 698

Optimum Moisture:

18.8%

Required Compaction:

95%

Lab No.:

05 11306-11309

PETTIGREW & ASSOCIATES

Copies To:

Environmental Plus

BY:

P.E.

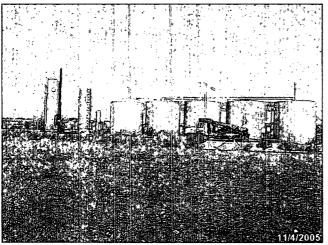
APPENDIX II PROJECT PHOTOGRAPHS



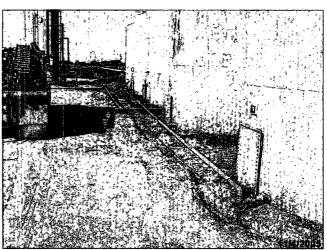
Photograph #1 - Lease Sign



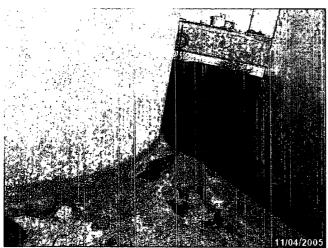
Photograph #2 - Looking easterly at bermed tank battery.



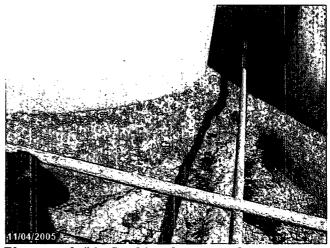
Photograph #3 – Looking at northerly at tank battery.



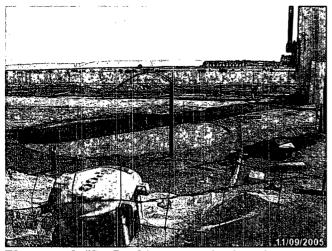
Photograph #4 – Tank battery area looking westerly.



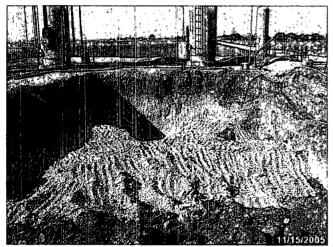
Photograph #5 – Looking down on release area. Stained soil indicates contamination.



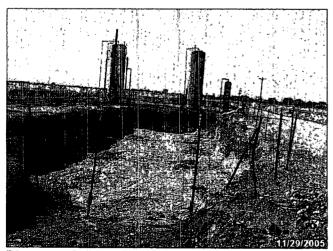
Photograph #6 – Looking down on release area. Stained soil indicates contamination.



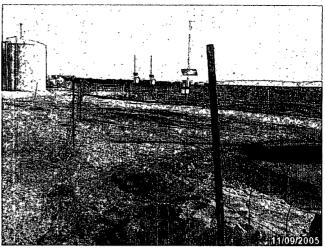
Photograph #7 – Looking at southerly at battery area with tanks removed. Stained soil indicates contamination.



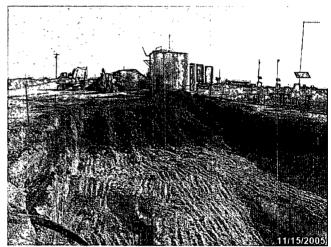
Photograph #9 – Looking westerly at initial excavation activities.



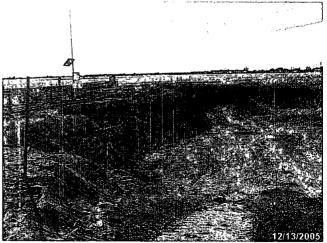
Photograph #11 – Looking westerly at excavation activities as of November 29, 2005.



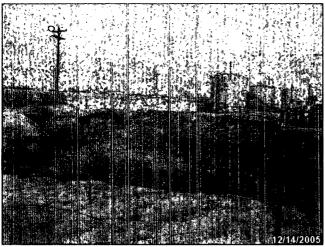
Photograph #8 – Looking at southerly at battery area with tanks removed. Stained soil indicates contamination.



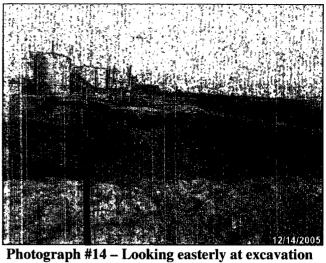
Photograph #10 – Looking easterly at initial excavation activities.



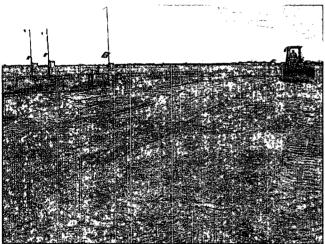
Photograph #12 – Looking westerly at excavation activities as of December 13, 2005.



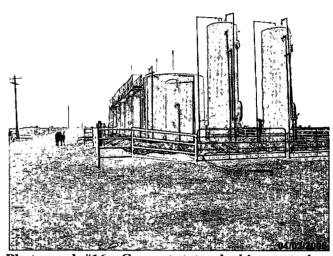
Photograph #13 - Looking easterly at excavation activities as of December 14, 2005.



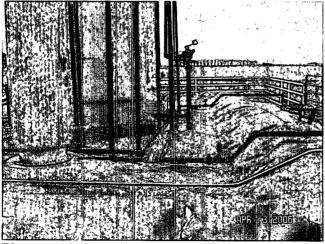
activities as of December 14, 2005.



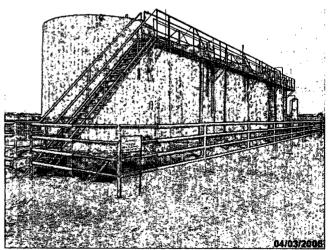
Photograph #15 - Looking westerly at site upon completion of backfilling on January 2, 2006.



Photograph #16 – Current status, looking easterly as of April 3, 2006.



Photograph #17 - Current status as of April 3, 2006, looking southerly



Photograph #17 - Current status as of April 3, 2006, looking westerly

APPENDIX III
SOIL BORING LOGS



ENVIRONMENTAL PLUS, INC.
STATE APPROVED LAND FARM AND
ENVIRONMENTAL SERVICES
EUNICE
505-394-3481

Project Number: 160037

Project Name: Chesapeake "SV" Chipshot

Location: UL-K, Section 11, Township 16 South, Range 36 East

Boning Number: SP-1

-			505-	-394-348	31	I	Boring	Number: SB-1 Surface Elevation: 3,895
Time	Sample Type	Recovery (inches)	Moisture	PID Readings (ppm)	Chloride Analysis (mg/Kg)	U.S.C.S. Symbol	Depth (feet)	Start Date: 11/10/2005 Time: 1130 hrs Completion Date: 11/10/2005 Time: 1220 hrs Description
1120	PS	12		634	1,280			2' Dark Black Soil
							<u> </u>	
1125	PS	6		137	600			
				:				
1125	PS	8	ļ	5.2	640		10	
				ļ			<u> </u> 15	
1151	PS	6		3.7	960			Callche —
1159	PS	7		2.9	560		——20	
1210	PS			2.0	160		25	-
1210	P3	8		2.0	160		+	
						Ī		
1220	PS	6		1.3	160		-30	End of Soil Boring at 31'
}	Wa+	er Leve	el Mess	ILIDAMAN	ts (feet	<u> </u>	1	
Date		ne So	ample epth	Casing Depth	Cave-i Depth	n Va	evel -	rilling Method: HSA 3.5° ID Backfill Method: Bentonite
			-	<u> </u>	-			ield Representative: GB



ENVIRONMENTAL PLUS, INC.
STATE APPROVED LAND FARM AND
ENVIRONMENTAL SERVICES
EUNICE

Project Number: 160037

Project Name: Chesapeake 'SV' Chipshot

Location: UL-K, Section 11, Township 16 South, Range 36 East

1111			- E	UNICE				
			505-	394-348	31		Boring N	lumber: SB-2 Surface Elevation: 3,895
Time	Sample Type	Recovery (inches)	Moisture	PID Readings (ppm)	Chloride Analysis (mg/Kg)	U.S.C.S. Svæbol	Depth (feet)	Start Date: 11/10/2005 Time: 1303 hrs Completion Date: 11/10/2005 Time: 1329 Description
							_	_
1303	PS	12		491	1,120		\pm	2' Dark Blue Soil
							-	
1313	PS	6		3.5	320		5	
								_
1324	PS	8		3.3	160		10	Caliche —
							_	
							-	_
							15	End of Soil Boring at 16'
1329	PS	6		3.0	80			
							E	_
							<u> </u>	_
							20	_
							-	_
							25	
			!				-	_
							_	_
							30	
	Wate	r Leve	l Meas	urement	ts (feet	<u> </u>		
Date	Tim		mple pth	Casing Depth	Cave-i Depth	n w	evel	rilling Method: HSA 3.5' ID
=			-	-	-			ackfill Method: Bentonite
								eld Representative: GB

Project Number: 160037

Project Name: Chesapeake 'SV' Chipshot

Location: UL-K, Section 11, Township 16 South, Range 36 East

		,,,,	Ε	UNICE			בטכמ נוו	on UL-K, section II, Township 16 South, Range 36 East
			505-	394-348	B1		Boring	Number: SB-3 Surface Elevation: 3,895
Tine	Sample Type	Recovery (Inches)	Moisture	PID Readings (ppm)	Chloride Analysis (mg/Kg)	U.S.C.S. Symbol	Depth (feet)	Start Date: 11/10/2005 Time: 1351 hrs Completion Date: 11/10/2005 Time: 1424 hrs Description
							-	
1351	PS	12		212	1,120			2' Dark Black Soil
							_	_
1400	PS	6		16.2	480		5	
1400	rs			16.2	400			
								_
							10	
1407	PS	8		3.9	400		+	Caliche
							-	
								_
							15	
1424	PS	6		1.4	200			_
1							_	_
							\vdash	_
							\vdash	_
1159	PS	7		2.0	160		21	End of Soil Boring at 21'
								_
								_
							-	_
							2	5
								_
		<u> </u>		1	 	 		_
		:				<u> </u>	— з	_
								_
				uremen			1	I Irilling Method: HSA 3.5" ID
Date	Tim	e So	ample epth	Casing Depth	Cave- Depth	n W	evel	Backfill Method: Bentonite
=			-		-	\pm		
								Teld Representative: GB

APPENDIX IV

FINAL NMOCD C-141 FORM

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

State of New Mexico Energy Minerals and Natural Resources

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 Form C-141 Revised October 10, 2003

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

Release Notification and Corrective Action

				_		OPERATO	R	Initial	Report	\boxtimes	Final Repor		
Name of Cor			nergy			Contact: Bradley Blevins							
Address: 16						Telephone No.: (505) 391-1462 ext. 6224							
Facility Nam	ie: "SV" (Chipshot				Facility Type: Tank Battery							
Surface Owi	er: City o	of Lovington		Mineral Ov	vner:	r: Lease No.:							
				LOCAT	'IOI'	ON OF RELEASE							
Unit Letter K							orth/South Line Feet from the East.			est Line County Lea			
Latitude: N 32° 56' 11.70" Longitude: W 103° 19' 32.42" NATURE OF RELEASE													
Type of Relea	se: Oil	· · · · ·		NATU	KE		lease: Unknown	Volume R	ecovered:	None			
Source of Rel	ease: Tank	Battery		_			r of Occurrence:		Hour of D		y:		
Was Immedia	te Notice (es 🗌 N	No 🗌 Not Requ	ired	If YES, To W Larry Johnson			<u>,</u>				
By Whom? N							ır: November 4, 20						
Was a Water	course Rea	ched?	Yes 🛛 N	40		If YES, Volume Impacting the Watercourse: Not Applicable							
If a Watercou	rse was Im	pacted, Desc	ribe Fully	.* Not Applicable					-				
Describe Cau replaced.	se of Probl	em and Rem	edial Actio	on Taken.* Leak f	rom ta	ank battery. The	tank battery has b	een decommiss	ioned and	all equi	pment was		
soil above NM	OCD reme	dial threshold	s and/or N	ken.* Approximat MWQCC groundw dial thresholds for	ater s	tandards was ex	cavated and transp	orted to Saunde	ers Land Fa	rm for	treatment or		
regulations all public health of should their of	operators a or the environ perations ha ment. In ad	re required to onment. The a ve failed to ad Idition, NMOO	report and acceptance lequately in CD accepta	s true and complete /or file certain rele of a C-141 report nvestigate and rem ance of a C-141 rep	ase no by the ediate	otifications and personal of the NMOCD marks contamination to	perform corrective ed as "Final Repor that pose a threat to	actions for releat" does not relie o ground water,	ases which eve the ope surface wa	may er rator of ater, hu	ndanger Fliability man health		
						OIL CONSERVATION DIVISION							
Signature: Printed Name		radby	5	lavers_		Approved by District Supervisor:							
Title: Field Su	pervisor				1	Approval Date: 7.6.0 Expiration Date:							
E-mail Addre						Conditions of Approval:			Attached				
Date: 6- Attach Addit	<i>Z6 - €</i> ional She	ets If Neces	Phone: (50 sarv	15) 391-1462 ext. 2	4				678				