



28 August 2009

Mr. Mike Bratcher, Environmental Engineer
New Mexico Oil Conservation Division
1301 West Grand Avenue
Artesia, New Mexico 88210

**RE: Remediation Proposal
Chesapeake Energy – Littlefield SWD
UL-B, Section 11, Township 24 South, Range 31 East
Latitude N 32° 14' 14.83" and Longitude W 103° 44' 46.89"
Eddy County, New Mexico
EPI Ref. #160957**

Mr. Bratcher:

Environmental Plus, Inc., (EPI) on behalf of Mr. Bradley Blevins, Chesapeake Energy, (Chesapeake), submits the following letter form Remediation Proposal for the above referenced Site.

Remedial activities were initiated to bring the impacted site into conformance with NMOCD requirements. For clarity and cross reference elimination purposes, the following letter form Remediation Proposal offers Site Background, Field Work and Site Remediation Proposal.

Site Background

The Site is located in UL-B (NW ¼ of the NE ¼) of Section 11, T24S, R31E at an elevation of approximately 3,514 feet above mean sea level (amsl). The property is owned by the Department of the Interior and managed by the Bureau of Land Management (BLM). A search for water wells was completed utilizing the New Mexico Office of the State Engineer's website and a database maintained by the United States Geological Survey (USGS). Groundwater data taken from domestic and USGS water wells indicates an average water depth of approximately 375 feet below ground surface (bgs). No wells (domestic, agriculture or public) or bodies of surface water exist within a 1,000-foot radius of the release site (reference *Figure 2*). Utilizing this information, New Mexico Oil Conservation Division (NMOCD) Remedial Goals for this Site were determined as follows:

Parameter	Remedial Goal*
Benzene	10 parts per million
BTEX	50 parts per million
TPH	5,000 parts per million
Chloride	250 parts per million



Field Work

The release of approximately 300 barrels of oil inside the SWD firewall was the result of equipment failure. Approximately 242 barrels were recovered from the site. On July 13, 2009 EPI performed assessment, GPS survey and photographed the site. Visibly stained soil was excavated to a depth of one (1) foot bgs and transported to a State approved disposal facility. On July 13, 2009 EPI excavated and sampled three (3) test trenches (ST1, ST2 and ST3) across the release area to delineate vertical extents of impacted soil (reference *Figure 3* and *Table 2*). On August 10, 2009 one (1) soil boring hole was advanced with soil samples collected at 5, 10, 15 and 19 feet bgs.

Site Remediation Proposal

Chesapeake plans to dismantle and relocate the existing tank battery to an alternate location on the pad. Based on field and laboratory analyses, impacted soil exists to approximately 19-foot bgs in the area of BH1 (reference *Figure 4* and *Table 2*). The site has been excavated two (2) feet bgs. EPI recommends excavating an additional three (3) feet bgs, bringing the excavation to a total depth of five (5) feet bgs. With the distance between groundwater and contamination being approximately 356 feet bgs the chance of contamination of groundwater is remote, however, as a safeguard EPI recommends installation of a one (1) foot thick liner of compacted clay to be emplaced in excavation bottom. Excavation will be backfilled with clean soil or caliche and graded/contoured to promote natural drainage. Upon OCD approval and after current tank battery has been dismantled with all equipment removed, EPI will initiate the remediation phase.

Should you have any questions or concerns, please contact me at (575) 394-3481 or via e-mail at ddominguez@envplus.com or Mr. Bradley Blevins at (575) 441-0341 or via e-mail at bradley.blevins@chk.com. All official communication should be addressed to:

Mr. Bradley Blevins
Chesapeake Energy
P.O. Box 190
Hobbs, New Mexico 88240

Sincerely,

ENVIRONMENTAL PLUS, INC.

Daniel Dominguez
Environmental Consultant



cc: Bradley Blevins, EH & S, Chesapeake Energy – Hobbs, NM
Jim Amos, BLM – Carlsbad, NM
File

Encl: Figure 1 – Area Map
Figure 2 – Site Location Map
Figure 3 – Site Map
Figure 4 – Sample Map
Table 1 – Well Data
Table 2 – Summary of Excavation Soil Sample Laboratory Analytical Results
Attachment I – Site Photographs
Attachment II – Laboratory Analytical Results and Chain-of-Custody Form
Attachment III – Information and Metrics Form
Initial NMOCD Form C-141

FIGURES

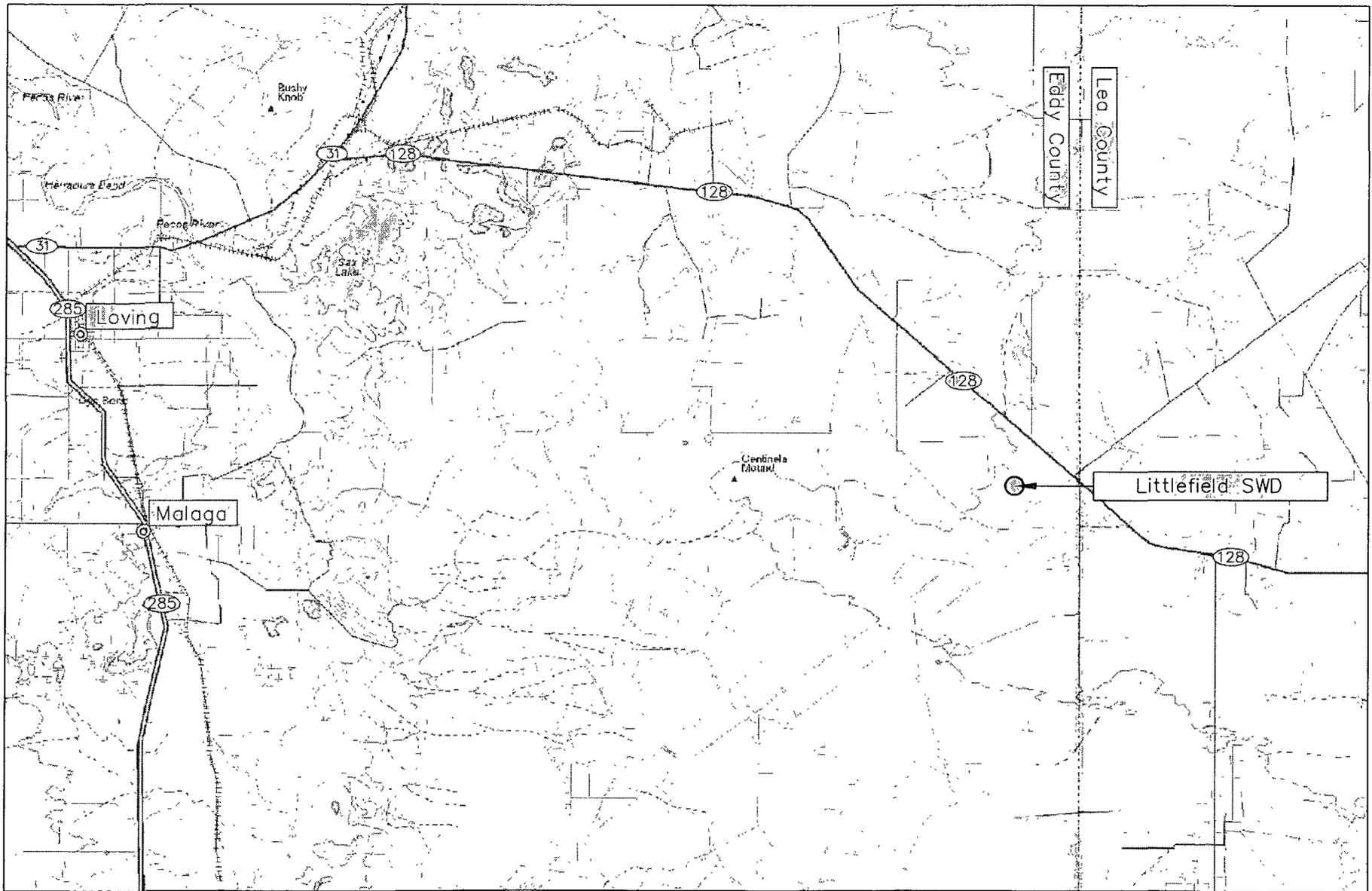
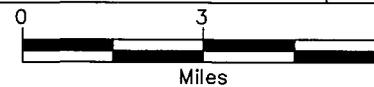


Figure 1
 Area Map
 Chesapeake Energy
 Littlefield SWD

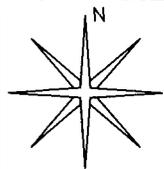
Eddy County, New Mexico
 NW 1/4 of the NE 1/4, Sec. 11, T24S, R31E
 N 32° 14' 14.83" W 103° 44' 46.89"
 Elevation: 3,514 feet amsl

DWG By: D Dominguez
 August 2009

REVISED:



SHEET
 1 of 1



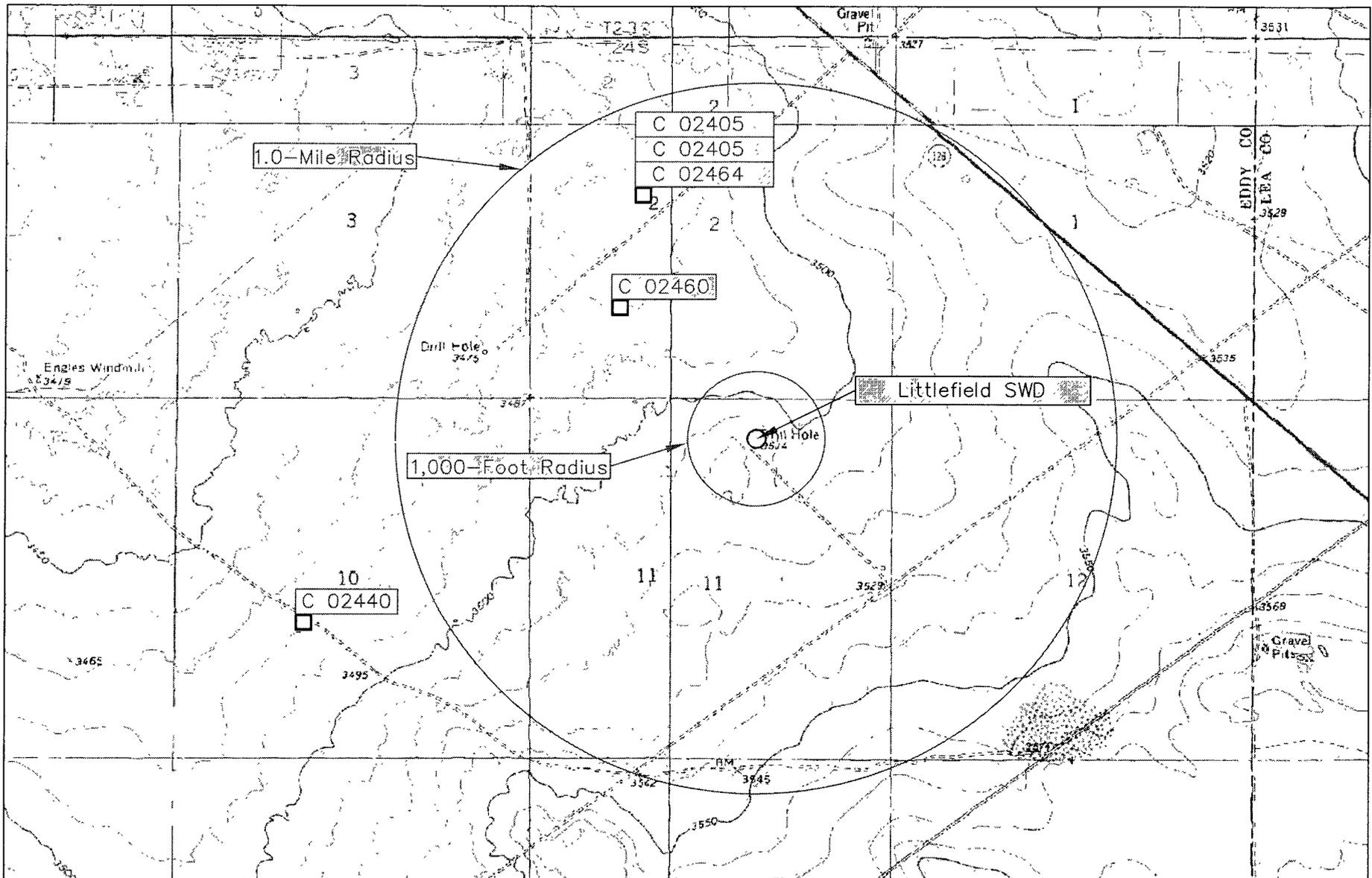
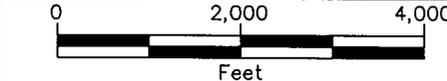


Figure 2
 Site Location Map
 Chesapeake Energy
 Littlefield SWD

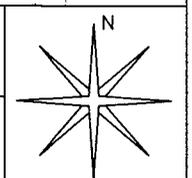
Eddy County, New Mexico
 NW 1/4 of the NE 1/4, Sec. 11, T24S, R31E
 N 32° 14' 14.83" W 103° 44' 46.89"
 Elevation: 3,514 feet amsl

DWG By: D Dominguez
 August 2009

REVISED:



SHEET
 1 of 1



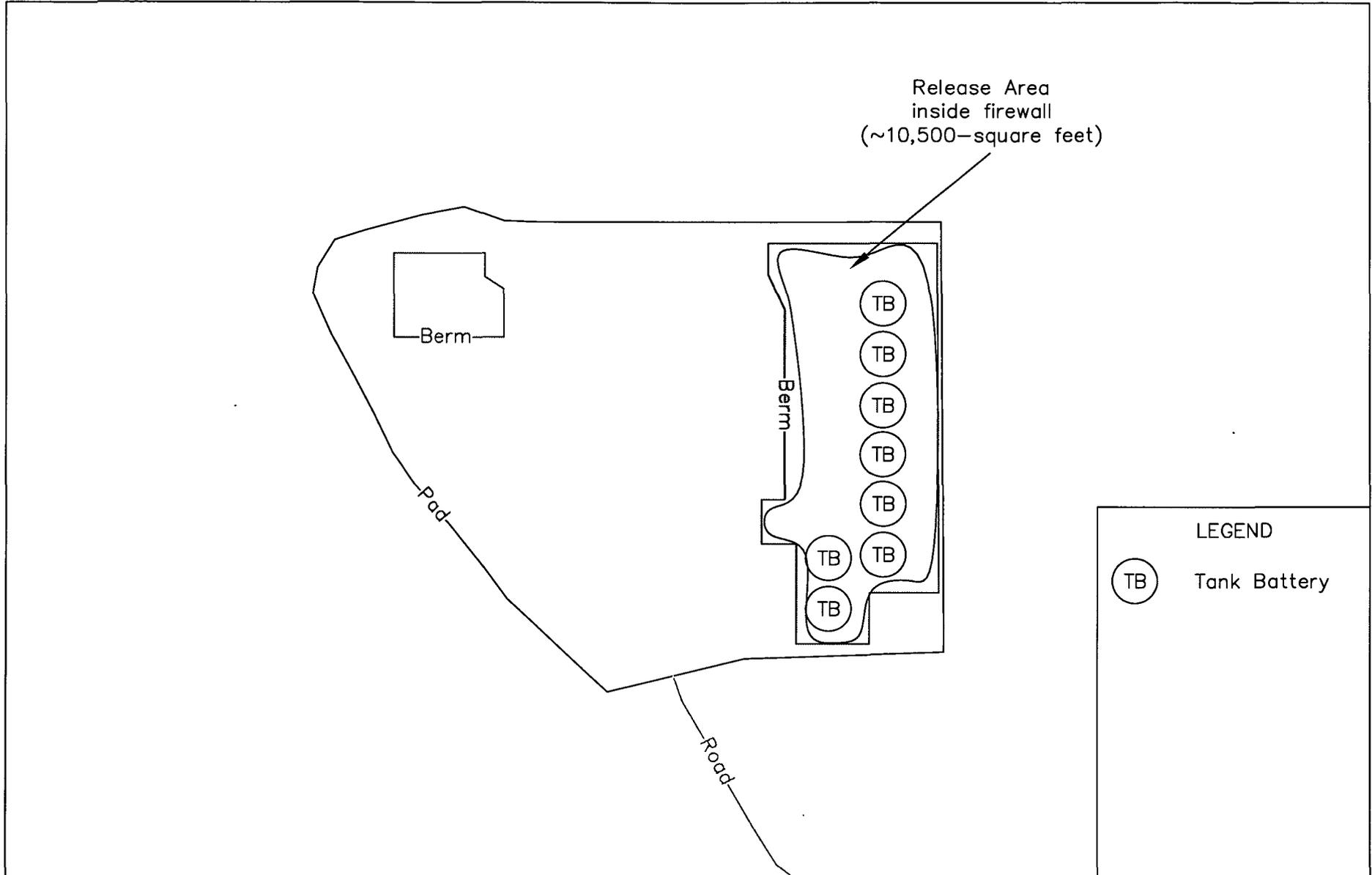
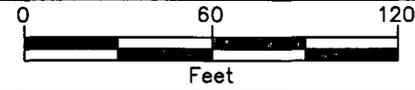


Figure 3
 Site Map
 Chesapeake Energy
 Littlefield SWD

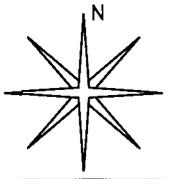
Eddy County, New Mexico
 NW 1/4 of the NE 1/4, Sec. 11, T24S, R31E
 N 32° 14' 14.83" W 103° 44' 46.89"
 Elevation: 3,514 feet amsl

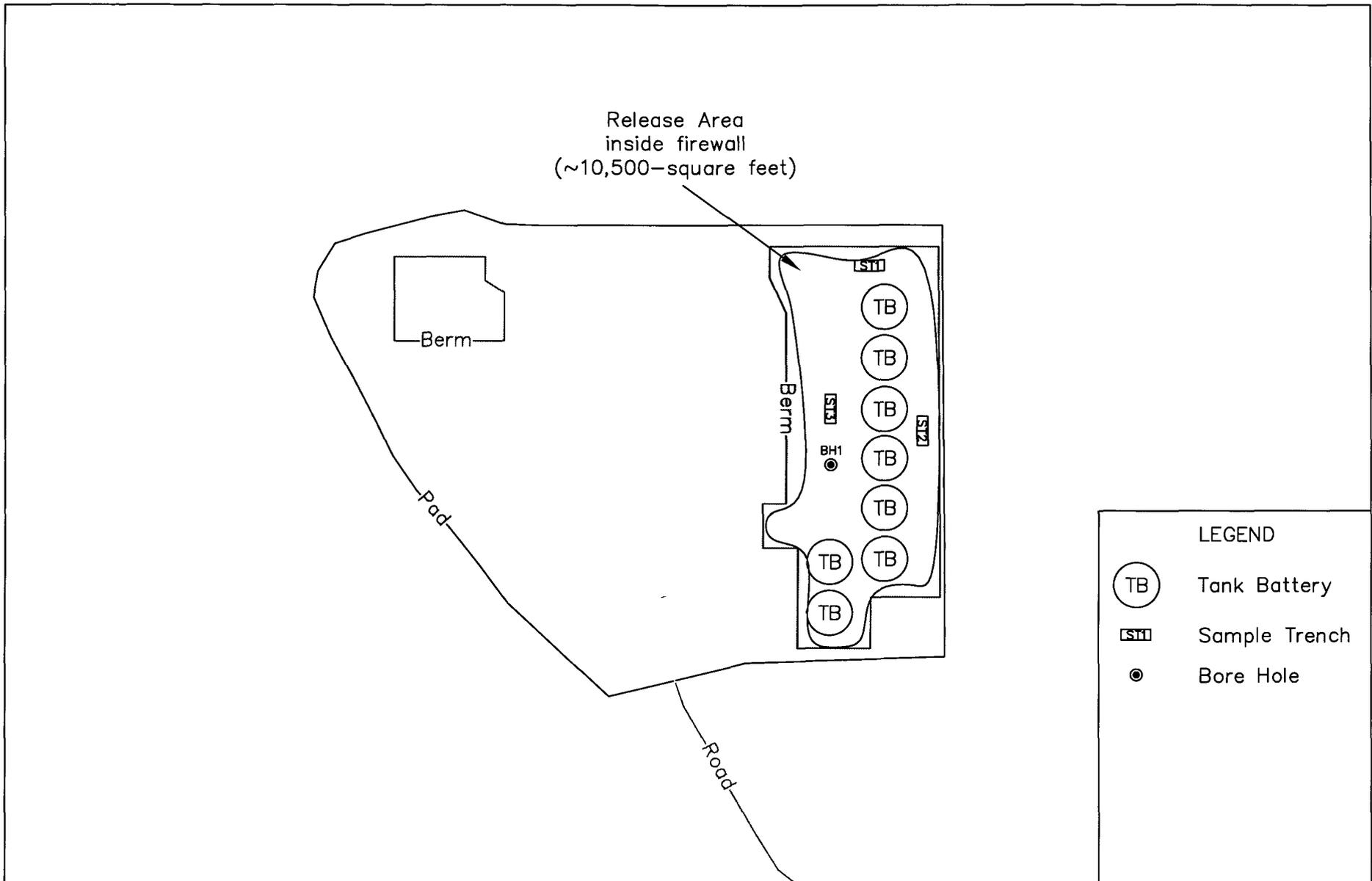
DWG By: D Dominguez
 August 2009

REVISED:



SHEET
 1 of 1





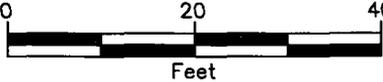
LEGEND

-  Tank Battery
-  Sample Trench
-  Bore Hole

Figure 4
Sample Map
Chesapeake Energy
Littlefield SWD

Eddy County, New Mexico
NW 1/4 of the NE 1/4, Sec. 11, T24S, R31E
N 32° 14' 14.83" W 103° 44' 46.89"
Elevation: 3,514 feet amsl

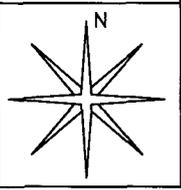
DWG By: D Dominguez
August 2009



0 20 40
Feet

REVISED:

SHEET
1 of 1



TABLES

TABLE 1

Well Data

Chesapeake Energy - Littlefield SWD (EPI Ref. # 160957)

Well Number	Diversion ^A	Owner	Use	Twsp	Rng	Sec q q q	Latitude	Longitude	Date Measured	Surface Elevation ^B	Depth to Water (ft bgs)
C 02405	8.4	GREGORY ROCKHOUSE RANCH	IRR	24S	31E	02 1 4 3	N32° 14' 50.24"	W103° 45' 6.35"	30-Sep-94	3,470	160
C 02405	47.82	CATHLEEN MC INTIRE	IRR	24S	31E	02 1 4 3	N32° 14' 50.24"	W103° 45' 6.35"	30-Sep-94	3,470	160
C 02440	3	SONAT EXPLORATION	PRO	24S	31E	10 3 2	N32° 13' 48.10"	W103° 46' 3.97"	21-Mar-95	3,480	
C 02460	3	SONAT EXPLORATION	PRO	24S	31E	02 3	N32° 14' 33.78"	W103° 45' 10.13"	25-Aug-95	3,480	212
C 02464	3	COMMISSIONER OF PUBLIC LANDS	PRO	24S	31E	02 1 4 3	N32° 14' 50.24"	W103° 45' 6.35"	24-Aug-95	3,470	205

* = Data obtained from the New Mexico Office of the State Engineer Website (http://waters.ose.state.nm.us:7001/WATERS/wr_RegisServlct1) and USGS Database

^A = In acre feet per annum

^B = Elevation interpolated from USGS topographical map based on referenced location.

PRO = 72-12-1 Prospecting or development of natural resource

IRR = Irrigation

quarters are 1=NW, 2=NE, 3=SW, 4=SE; quarters are biggest to smallest

Shaded area indicates wells not shown in Figure 2

TABLE 2
Summary of Excavation Soil Sample Laboratory Analytical Results
Chesapeake Energy - Littlefield SWD (EPI Ref. #160957)
UL-B, Section 11, T24S, R31E; Eddy County, NM

Sample I.D.	Depth (feet)	Soil Status	Sample Date	Field PID Analyses (ppm)	Field Chloride Analyses (mg/Kg)	Benzene (mg/Kg)	Toluene (mg/Kg)	Ethylbenzene (mg/Kg)	Total Xylenes (mg/Kg)	Total BTEX (mg/Kg)	TPH (as gasoline) (mg/Kg)	TPH (as diesel) (mg/Kg)	TPH (mg/Kg)	Chloride (mg/Kg)
ST1-Surface		Excavated	13-Jul-09	72	>4,000	--	--	--	--	--	<10.0	<10.0	<20.0	10,200
ST1-4'	4	In situ	13-Jul-09	0.6	400	--	--	--	--	--	<10.0	<10.0	<20.0	192
ST1-10'	10	In situ	13-Jul-09	0	400	--	--	--	--	--	<10.0	<10.0	<20.0	320
ST2-2'	2	Excavated	13-Jul-09	--	--	--	--	--	--	--	<10.0	<10.0	<20.0	32
ST2-4'	4	In situ	13-Jul-09	4.9	240	--	--	--	--	--	<10.0	<10.0	<20.0	<16
ST2-8'	8	In situ	13-Jul-09	1	240	--	--	--	--	--	<10.0	<10.0	<20.0	256
ST3-Surface		Excavated	13-Jul-09	52	2,640	--	--	--	--	--	<10.0	19.1	19.1	3,600
ST3-2'	2	Excavated	13-Jul-09	--	--	--	--	--	--	--	357	4,550	4,907	672
ST3-4'	4	In situ	13-Jul-09	732	480	--	--	--	--	--	1,130	9,020	10,150	288
ST3-6'	6	In situ	13-Jul-09	650	1,200	--	--	--	--	--	2,100	8,160	10,260	6,000
ST3-10'	10	In situ	20-Jul-09	1,653	800	--	--	--	--	--	2,760	8,590	11,350	752
ST3-15'	15	In situ	20-Jul-09	1,030	960	--	--	--	--	--	1,750	11,900	13,650	672
BH1	BH1-5'	In situ	10-Aug-09	430	1,920	--	--	--	--	--	317	6,000	6,317	1,820
	BH2-10'	In situ	10-Aug-09	1,423	1,680	--	--	--	--	--	1,620	4,300	5,920	2,520
	BH3-15'	In situ	10-Aug-09	1,354	1,200	--	--	--	--	--	1,910	4,160	6,070	976
	BH4-19'	In situ	10-Aug-09	477	1,040	--	--	--	--	--	216	3,460.0	3,676	912
NMOCD Remedial Thresholds				100		10				50			5,000	250 ¹

Bolded values are in excess of NMOCD Remediation Threshold Goals

BH = Bore Hole

SW = Sidewall, N = North side, S = South side, W = West side and E = East side

¹ = Chloride residuals may not be capable of impacting local groundwater above NMWQCC Groundwater Standards of 250 mg/Kg

Shaded areas indicate soil samples collected from excavated sample points

ATTACHMENTS

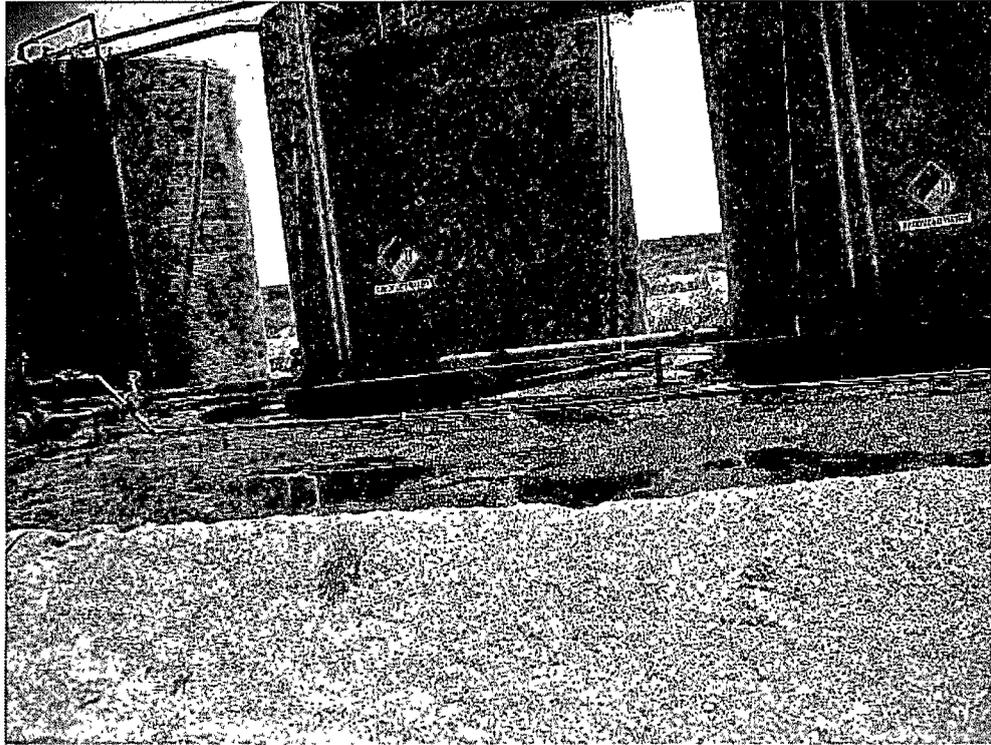
**ATTACHMENT I
PHOTOGRAPHS**



Photograph #1 – Lease sign



Photograph #2 – Looking east across release area inside firewall



Photograph #3 – Looking east across release area inside firewall



Photograph #4 – Looking south across release area inside firewall



Photograph #5 – Looking south across release area inside firewall



Photograph #6 – Sample trench 1



Photograph #7 – Sample trench 2



Photograph #8 – Sample trench 3

**ATTACHMENT II
LABORATORY ANALYTICAL DATA
AND
CHAIN-OF-CUSTODY FORM**



**ARDINAL
LABORATORIES**

PHONE (575) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

July 17, 2009

Daniel Dominguez
Environmental Plus, Inc.
P.O. Box 1558
Eunice, NM 88231

Re: Chesapeake Energy (160957)

Enclosed are the results of analyses for sample number II17801, received by the laboratory on 07/13/09 at 4:12 pm.

Cardinal Laboratories is accredited through Texas NELAP for:

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

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

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

Sincerely,

Celey D. Keene
Laboratory Director

This report conforms with NELAP requirements.



ARDINAL LABORATORIES

PHONE (575) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

ANALYTICAL RESULTS FOR
ENVIRONMENTAL PLUS, INC.
ATTN: DANIEL DOMINGUEZ
P.O. BOX 1558
EUNICE, NM 88231
FAX TO: (575) 394-2601

Receiving Date: 07/13/09
Reporting Date: 07/16/09
Project Owner: CHESAPEAKE ENERGY (160957)
Project Name: LITTLEFIELD FEDERAL SWD
Project Location: UL-B, SECT 11, T24S, R31E

Sampling Date: 07/13/09
Sample Type: SOIL
Sample Condition: COOL & INTACT @ 6°C
Sample Received By: ML
Analyzed By: AB/HM

LAB NUMBER	SAMPLE ID	GRO (C ₆ -C ₁₀) (mg/kg)	DRO (>C ₁₆ -C ₂₈) (mg/kg)	CI* (mg/kg)
	ANALYSIS DATE	07/13/09	07/13/09	07/14/09
H17801-1	ST1-SURFACE	<10.0	<10.0	10,200
H17801-2	ST1-4'	<10.0	<10.0	192
H17801-3	ST1-10'	<10.0	<10.0	320
H17801-4	ST2-2'	<10.0	<10.0	32
H17801-5	ST2-4'	<10.0	<10.0	< 16
H17801-6	ST2-8'	<10.0	<10.0	256
H17801-7	ST3-SURFACE	<10.0	19.1	3,600
H17801-8	ST3-2'	357	4,550	672
H17801-9	ST3-4'	1,130	9,020	288
H17801-10	ST3-6'	2,100	8,160	6,000
Quality Control		588	592	490
True Value QC		500	500	500
% Recovery		118	118	98.0
Relative Percent Difference		6.4	5.6	2.0

METHODS: TPH GRO & DRO: EPA SW-846 8015 M; CI: Std. Methods 4500-CI*
*Analyses performed on 1:4 w.v aqueous extracts. Reported on wet weight
Second surrogate recovery for H17801-2 and 7 were outside historical limits due to matrix interference.

Chemist

Date

H17801 TCL EPI

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. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



**ARDINAL
LABORATORIES**

PHONE (575) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

July 23, 2009

Daniel Dominguez
Environmental Plus, Inc.
P.O. Box 1558
Eunice, NM 88231

Re Chesapeake (160957)

Enclosed are the results of analyses for sample number H17846, received by the laboratory on 07/21/09 at 8:36 am.

Cardinal Laboratories is accredited through Texas NELAP for:

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

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

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

Sincerely,

Celey D. Keene
Laboratory Director



ARDINAL LABORATORIES

PHONE (575) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

ANALYTICAL RESULTS FOR
ENVIRONMENTAL PLUS, INC.
ATTN: DANIEL DOMINGUEZ
P.O. BOX 1558
EUNICE, NM 88231
FAX TO: (575) 394-2601

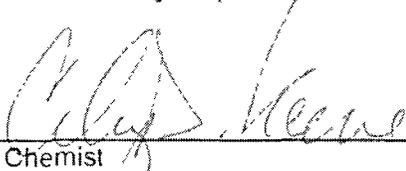
Receiving Date: 07/21/09
Reporting Date: 07/23/09
Project Owner: CHESAPEAKE ENERGY (160957)
Project Name: LITTLEFIELD FEDERAL SWD
Project Location: UL-B, SECT. 11, T 24 S, R 31 E

Sampling Date: 07/20/09
Sample Type: SOIL
Sample Condition: COOL & INTACT @ 5°C
Sample Received By: ML
Analyzed By: AB/HM

LAB NUMBER	SAMPLE ID	GRO (C ₆ -C ₁₀) (mg/kg)	DRO (>C ₁₀ -C ₂₈) (mg/kg)	CI* (mg/kg)
ANALYSIS DATE		07/21/09	07/21/09	07/21/09
H17846-1	ST3-10'	2,760	8,590	752
H17846-2	ST3-15'	1,750	11,900	672
Quality Control		461	543	500
True Value QC		500	500	500
% Recovery		92.2	109	100
Relative Percent Difference		15.8	12.1	<0.1

METHODS: TPH GRO & DRO: EPA SW-846 8015 M; CI: Std Methods 4500-CI/B

*Analyses performed on 1:4 w/v aqueous extracts. Reported on wet weight.



Chemist

07/23/09

Date

H17846 TCL EPI

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 analytical 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. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Environmental Plus, Inc.

2100 Avenue O, Eunice, NM 88231
 (575) 394-3481 FAX: (575) 394-2601

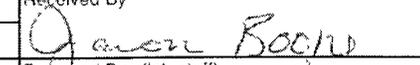
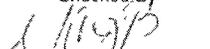
P.O. Box 1558, Eunice, NM 88231

Chain of Custody Form

LAB: _____

Company Name	Environmental Plus, Inc.	Bill To	ANALYSIS REQUEST	
EPI Project Manager	Daniel Dominguez	 Attn: Daniel Dominguez P.O. Box 1558 Eunice, NM 88231		
Mailing Address	P.O. BOX 1558			
City, State, Zip	Eunice New Mexico 88231			
EPI Phone#/Fax#	575-394-3481 / 575-394-2601			
Client Company	Chesapeake Energy			
Facility Name	Littlefield Federal SWD			
Location	UL-B, Sect. 11, T 24 S, R 31 E			
Project Reference	160957			
EPI Sampler Name	David Robinson			

LAB I.D.	SAMPLE I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX							PRESERV.			SAMPLING		BTEX 8021B	TPH 8015M	CHLORIDES (Cl)	SULFATES (SO ₄ ²⁻)	pH	TCLP	OTHER >>>	PAH																
				GROUND WATER	WASTEWATER	SOIL	CRUDE OIL	SLUDGE	OTHER:	ACID/BASE	ICE/COOL	OTHER	DATE	TIME																									
HTS 101	1 ST3-10'	G				X					X		20-Jul-09	12:55		X	X																						
	2 ST3-15'	G				X					X		20-Jul-09	14:00		X	X																						
	3																																						
	4																																						
	5																																						
	6																																						
	7																																						
	8																																						
	9																																						
	10																																						

Sample Relinquished by  Relinquished by  Delivered by 	07/20/09 Time 8:03 07/20/09 Time 8:30	Received By  Received By (lab staff)  Checked By 	E-mail results to: ddominguez@envplus.net; bradley.blovins@chk.com
--	--	--	--

50 #26



**ARDINAL
LABORATORIES**

PHONE (575) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

August 13, 2009

Daniel Dominguez
Environmental Plus, Inc.
P.O. Box 1558
Eunice, NM 88231

Re: Chesapeake (160957)

Enclosed are the results of analyses for sample number H17970, received by the laboratory on 08/11/09 at 4:35 pm.

Cardinal Laboratories is accredited through Texas NELAP for:

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

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

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

Sincerely,

Celey D. Keene
Laboratory Director

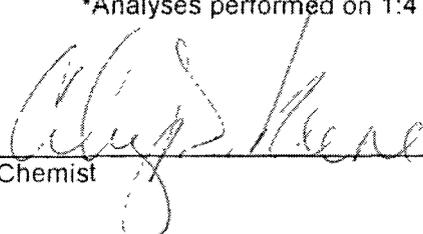
ANALYTICAL RESULTS FOR
ENVIRONMENTAL PLUS, INC.
ATTN: DANIEL DOMINGUEZ
P O BOX 1558
EUNICE, NM 88231
FAX TO: (575) 394-2601

Receiving Date: 08/11/09
Reporting Date: 08/13/09
Project Owner: CHESAPEAKE ENERGY (160957)
Project Name: LITTLEFIELD FEDERAL SWD
Project Location: UL-B, SECT. 11, T 24 S, R 31 E

Sampling Date: 08/10/09 & 08/11/09
Sample Type: SOIL
Sample Condition: COOL & INTACT @ 4.5°C
Sample Received By: ML
Analyzed By: AB/HM

LAB NUMBER	SAMPLE ID	GRO (C ₆ -C ₁₀) (mg/kg)	DRO (>C ₁₀ -C ₂₈) (mg/kg)	CI* (mg/kg)
ANALYSIS DATE		08/12/09	08/12/09	08/12/09
H17970-1	BH1-5'	317	6,000	1,820
H17970-2	BH2-10'	1,620	4,300	2,520
H17970-3	BH3-15'	1,910	4,160	976
H17970-4	BH4-19'	216	3,460	912
Quality Control		463	457	500
True Value QC		500	500	500
% Recovery		92.6	91.4	100
Relative Percent Difference		<0.1	0.5	<0.1

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



Chemist



Date

H17970 TCL EPI

Environmental Plus, Inc.

2100 Avenue O, Eunice, NM 88231
 (575) 394-3481 FAX: (575) 394-2601

P.O. Box 1558, Eunice, NM 88231

Chain of Custody Form

LAB: 01

Company Name		Environmental Plus, Inc.		Bill To				ANALYSIS REQUEST																															
EPI Project Manager		Daniel Dominguez		 Attn: Daniel Dominguez P.O. Box 1558 Eunice, NM 88231																																			
Mailing Address		P.O. BOX 1558																																					
City, State, Zip		Eunice New Mexico 88231																																					
EPI Phone#/Fax#		575-394-3481 / 575-394-2601																																					
Client Company		Chesapeake Energy																																					
Facility Name		Littlefield Federal SWD																																					
Location		UL-B, Sect. 11, T 24 S, R 31 E																																					
Project Reference		160957																																					
EPI Sampler Name		Kirt Tyree																																					
LAB I.D.	SAMPLE I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX						PRESERV.			SAMPLING		BTEX 8021B	TPH 8015M	CHLORIDES (Cl)	SULFATES (SO ₄)	pH	TCLP	OTHER >>>	PAH																	
				GROUND WATER	WASTEWATER	SOIL	CRUDE OIL	SLUDGE	OTHER:	ACID/BASE	ICE/COOL	OTHER	DATE	TIME																									
1	BH1-5'	G				X					X		10-Aug-09	8:45		X	X																						
2	BH2-10'	G				X					X		10-Aug-09	9:15		X	X																						
3	BH3-15'	G				X					X		10-Aug-09	10:15		X	X																						
4	BH4-19'	G				X					X		11-Aug-09	2:00		X	X																						
5																																							
6																																							
7																																							
8																																							
9																																							
10																																							

Sampler Relinquished	08/11/09	Received By	E-mail results to: ddominguez@envplus.net, bradley.hle@ins@chk.com
	Time 3:30	<i>[Signature]</i>	
Relinquished by	08/11/09	Received By (lab staff)	
<i>[Signature]</i>	Time 4:05	<i>[Signature]</i>	
Delivered by	Sample Cool & Intact Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>		Checked By <i>[Signature]</i>

**ATTACHMENT III
INFORMATION AND METRICS FORM
INITIAL NMOCD FORM C-141**


Chesapeake
 Information and Metrics

Incident Date
11 July 2009

NMOCD Notified:
11 July 2009

Site: Littlefield SWD		Assigned Site Reference : #160957	
Company: Chesapeake Energy			
Street Address: 1616 West Bender			
Mailing Address: P O Box 190			
City, State, Zip: Hobbs, New Mexico 88240			
Representative: Bradley Blevins			
Representative Telephone: (575) 441 - 0341			
Telephone:			
Fluid volume released (bbls): 300-bbls		Recovered (bbls): 242-bbls	
>25 bbls: Notify NMOCD verbally within 24 hrs and submit form C-141 within 15 days. (Also applies to unauthorized releases >500 mcf Natural Gas)			
5-25 bbls: Submit form C-141 within 15 days (Also applies to unauthorized releases of 50-500 mcf Natural Gas)			
Leak, Spill, or Pit (LSP) Name: Littlefield SWD			
Source of contamination: Oil and water			
Land Owner, i.e., BLM, ST, Fee, Other: BLM			
LSP Dimensions:			
LSP Area: Release Area ~10,500 sq ft inside firewall, ~2,600 sq ft. outside firewall			
Location of Reference Point (RP):			
Location distance and direction from RP:			
Latitude: N 32° 14' 14.83"			
Longitude: W 103° 44' 46.89"			
Elevation above mean sea level: 3,514 feet			
Feet from East Section Line: 1980'			
Feet from North Section Line: 660'			
Location- Unit or ¼: NW ¼ of the NE ¼		Unit Letter: B	
Location- Section: 11			
Location- Township: T24S			
Location- Range: R31E			
Surface water body within 1000' radius of site: none			
Domestic water wells within 1000' radius of site: none			
Agricultural water wells within 1000' radius of site: none			
Public water supply wells within 1000' radius of site: none			
Depth from land surface to groundwater (DG): ~375 feet			
Depth of contamination (DC): ~19'			
Depth to groundwater (DG – DC = DtGW): ~356 feet			
I. Groundwater		2. Wellhead Protection Area	
If Depth to GW <50 feet <i>20 points</i>		If <1000' from water source, or; <200' from private domestic water source: <i>20 points</i>	
If Depth to GW 50 to 99 feet: <i>10 points</i>		If >1000' from water source, or, >200' from private domestic water source. <i>0 points</i>	
If Depth to GW >100 feet. <i>0 points</i>			
Site Rank (1+2+3) = 0 + 0 + 0 = 0			
Total Site Ranking Score and Acceptable Concentrations			
Parameter	>19	10-19	0-9
Benzene ¹	10 ppm	10 ppm	10 ppm
BTEX ¹	50 ppm	50 ppm	50 ppm
TPH	100 ppm	1,000 ppm	5,000 ppm

¹100 ppm field VOC headspace measurement may be substituted for lab analysis

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

State of New Mexico
Energy Minerals and Natural Resources
Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-141
Revised October 10, 2003

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

Release Notification and Corrective Action

OPERATOR

Initial Report Final Report

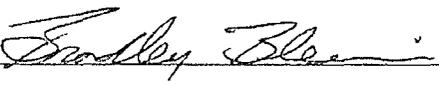
Name of Company: Chesapeake Energy	Contact: Bradley Blevins
Address: 1616 West Bender	Telephone No.: (575) 441-0341
Facility Name: Littlefield Federal SWD	Facility Type: Tank Battery
Surface Owner: BLM	Mineral Owner:
API: 3001510259	

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
B	11	24S	31E	660	FNL	1980	FEL	Eddy

Latitude: N 32° 14' 14.83" **Longitude:** W 103° 44' 46.89"

NATURE OF RELEASE

Type of Release: Oil and Water	Volume of Release: ~ 300 bbls	Volume Recovered: ~242 bbls
Source of Release: Equipment Failure	Date and Hour of Occurrence: 11 July, 2009	Date and Hour of Discovery: 11 July, 2009
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? Mike Bratcher, NMOCD; Jim Amos, BLM	
By Whom? Bradley Blevins	Date and Hour: 11 July 2009 @ 2:20 pm	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse: Not Applicable	
If a Watercourse was Impacted, Describe Fully.* Not Applicable		
Describe Cause of Problem and Remedial Action Taken.* The release of approximately 300 barrels of oil inside the firewall was the result of equipment failure, with approximately 242 barrels were recovered from the site.		
Describe Area Affected and Cleanup Action Taken.* Visibly stained area outside firewall was excavated and hauled to state approved disposal facility, area inside firewall initially dug out to 1 foot bgs and sampled. To be discussed further with OCD upon receipt of sample analytical data.		
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.		
Signature: 	OIL CONSERVATION DIVISION	
Printed Name: Bradley Blevins	Approved by District Supervisor:	
Title: EH & S	Approval Date:	Expiration Date:
E-mail Address: bblevins@chkenergy.com	Conditions of Approval:	Attached <input type="checkbox"/>
Date: 7.14.09 Phone: (575) 441-0341		

* Attach Additional Sheets If Necessary