

CLOSURE REPORT



WILL 7A FEE #1 DRILLING PIT

EPI REF: 160025

UL=A (NE¼ OF THE NE¼) OF SECTION 7 T23S R28E
~9.0 MILES SOUTHEAST OF CARLSBAD
EDDY COUNTY, NEW MEXICO
LATITUDE: N 32° 19' 30.76" LONGITUDE: W 104° 07' 16.97"

FEBRUARY 2007

PREPARED BY:

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

PREPARED FOR:


Chesapeake

Distribution List

Will 7A Fee #1 Drilling Pit

(EPI Ref. #160025)

Name	Title	Company or Agency	Mailing Address	e-mail
Mike Bratcher	Environmental Engineer	NMOCD	1301 West Grand Avenue Artesia, NM 88210	mbratcher@state.nm.us
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Bradley Blevins	Field Supervisor	Chesapeake Operating, Inc.	P.O. Box 190 Hobbs, New Mexico 88240-0190	bblevins@chkenergy.com
John Brantley	Landowner	--	1304 West Riverside Drive Carlsbad, NM 88220	--
File	--	EPI	P. O. Box 1558 Eunice, NM 88231	dduncan@enrplus.net

NMOCD - New Mexico Oil Conservation Division
EPI - Environmental Plus, Inc.

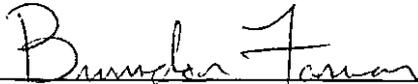


STANDARD OF CARE

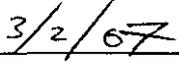
Closure Report Will 7A Fee #1 Drilling Pit (EPI Ref. #160025)

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:

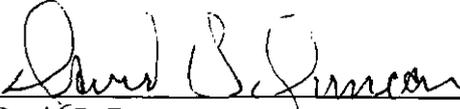


Brandon Farrar
Environmental Consultant

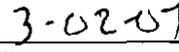


Date

This report was reviewed by:



David P. Duncan
Civil Engineer



Date



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1.0 PROJECT SYNOPSIS

Site Specific:

- ◆ **Company Name:** Chesapeake Operating, Inc.
- ◆ **Facility Name:** Will 7A Fee #1
- ◆ **Project Reference:** EPI Ref. #160025
- ◆ **Company Contacts:** Bradley Blevins
- ◆ **Site Location:** WGS84 N32° 19' 30.76"; W104° 07' 16.97"
- ◆ **Legal Description:** Unit Letter-A, (NE¼ of the NE¼), Section 7, T 23S, R 28E
- ◆ **General Description:** Approximately 9.0 miles southeast of Carlsbad, New Mexico
- ◆ **Elevation:** 3,041-ft amsl
- ◆ **Land Ownership:** John Brantley
- ◆ **EPI Personnel:** Project Consultant – David Duncan

Release Specific:

- ◆ **Product Released:** Not applicable
- ◆ **Volume Released:** Not applicable
- ◆ **Volume Recovered:** Not applicable
- ◆ **Time of Occurrence:** Not applicable
- ◆ **Time of Discovery:** Not applicable
- ◆ **Release Source:** Not applicable
- ◆ **Initial Surface Area Affected:** ~22,800-ft²

Remediation Specific:

- ◆ **Final Vertical extent of contamination:** Not applicable
- ◆ **Depth to Ground Water:** <50-ft
- ◆ **Water wells within 1,000-ft:** four (4)
- ◆ **Private domestic water sources within 200-ft:** None
- ◆ **Surface water bodies within 1,000-ft:** None
- ◆ **NMOCD Site Ranking Index:** 40 points
- ◆ **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/L and 600 mg/L, respectively.
- ◆ **RCRA Waste Classification:** Exempt
- ◆ **Remediation Option Selected:** a) stiffened and excavated all drilling mud from pit area including the liner to at least six (6) inches below drill pit bottom; b) collected soil samples from excavation floor and sidewalls with submittal to an independent laboratory for quantification of TPH, BTEX constituents, chloride and sulfate concentrations; c) based on laboratory analyses, additional impacted soil was excavated as necessary; d) transported impacted soil to Controlled Recovery Inc. for disposal; e) installed 20-mil polyethylene liner in bottom of the drill pit over areas of elevated chloride concentrations to prevent vertical migration of contaminants; f) backfilled excavation with clean soil and graded/contoured to allow natural drainage; g) will seed the remediation area with a blend suitable to the landowner.
- ◆ **Disposal Facility:** Controlled Recovery, Inc.
- ◆ **Volume disposed:** approximately 3,940 yds³ (combination of drilling mud and impacted soil)
- ◆ **Project Completion Date:** 29 March 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 rangeland in native grasses utilized for livestock grazing along with oilfield operations.

2.2 ***Identify and describe the source or suspected source(s) of the release.***
Not applicable.

2.3 ***What is the volume of the release? (if known):*** Not applicable *barrels of* Not applicable

2.4 ***What is the volume recovered? (if any):*** Not applicable *barrels*

2.5 ***When did the release occur? (if known):*** Not applicable

2.6 ***Geological Description***

The New Mexico Bureau of Mines and Mineral Resources Ground-Water Report 3, "Geology and Ground-Water Resources of Eddy County, New Mexico," G.E. Hendrickson and R.S. Jones, 1952, describes the near surface geology near the release site as "Quaternary deposits" composed of older "Quartzose conglomerate that ranges in thickness from a feather edge to more than 300 feet and consists of clay, silt, sand, gravel and conglomerate."

2.7 ***Ecological Description***

The area is typically of the Upper Chihuahuan Desert Biome consisting primarily of sandy soil covered with short semi-arid grasses, interspersed with Honey Mesquite and 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 Coyote. Reptiles, amphibians and birds are numerous and typical of the 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 <50-ft bgs based on water depth data obtained from the New Mexico State Engineers Office and United States Geological Survey data base. Groundwater was encountered at approximately 17-ft bgs during the advancement of soil borings BH-1 and BH-2 on October 20, 2005.

2.9 ***Area Water Wells***

Four (4) water supply wells exist within a 1,000 foot radius of the release site (reference *Figure 2*).

2.10 ***Area Surface Water Features***

No surface water features exist within a 1,000-foot radius of the release site.



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-water);*
- ◆ *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 twenty (20) points with the soil remedial goals highlighted in the Site Ranking table presented below:

1. GROUNDWATER		2. WELLHEAD PROTECTION AREA		3. DISTANCE TO SURFACE WATER	
Depth to GW <50 feet: 20 points		If <1,000' from water source, or <200' from private domestic water source: 20 points		<200 horizontal feet: 20 points	
Depth to GW 50 to 99 feet: 10 points				200-1,000 horizontal feet: 10 points	
Depth to GW >100 feet: 0 points		If >1,000' from water source, or >200' from private domestic water source: 0 points		>1,000 horizontal feet: 0 points	
Site Rank (1+2+3) = 20 + 20 + 0 = 40 points					
Total Site Ranking Score and Acceptable Remedial Goal Concentrations					
Ranking Score	20 or >	10	0		
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		

¹ A field soil vapor headspace measurement of 100 ppm can be substituted in lieu of laboratory analyses for benzene and BTEX.



4.0 EXCAVATED SOIL INFORMATION

4.1 Was soil excavated for off-site treatment or disposal? Yes No

Date excavated: 09-29-05 through 10-14-05

Total volume removed: approximately 3,940 yds³ (combination of drilling mud and impacted soil)

4.2 *Indicated soil treatment type:*

<input checked="" type="checkbox"/>	<i>Disposal</i>
<input type="checkbox"/>	<i>Land Treatment</i>
<input type="checkbox"/>	<i>Composting/Biopiling</i>
<input type="checkbox"/>	<i>Other ()</i>

Name and location of treatment/disposal facility:
Controlled Recovery Inc., Lea County, New Mexico



5.0 SAMPLING INFORMATION

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

Organic Vapor Concentrations – A portion of each soil sample was inserted into a self-sealing polyethylene bag to allow volatilization of organic vapors. After the samples equilibrated to ~70° F, they were analyzed for organic vapors utilizing a MiniRac® Photoionization Detector (PID) equipped with a 10.6 electron volt (eV) lamp and calibrated for benzene response.

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 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. Prior to the collection of each sample, the sampling instrument was decontaminated with an Alconox solution.

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), chloride and sulfate concentrations.

5.3 *Discuss sample locations and provide rationale for their locations.*

On October 12, 2005 nine (9) soil samples were collected from the pit floor. On October 14, 2005 eight (8) soil samples were collected from the pit sidewalls (reference *Figure 4* for locations).

On October 20, 2005 two soil borings (BH-1 and BH-2) were advanced to approximately 20-feet bgs. Soil samples were collected from the soil borings at intervals 10-, 15- and 20-feet bgs (reference *Figure 5* for locations).

On March 8, 2006 eight (8) soil samples were collected from the pit floor (reference *Figure 6* for locations).

Sample locations within the pit area were chosen to provide the best representative area to delineate vertical extent of impacted soil.



6.0 ANALYTICAL RESULTS

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

Laboratory analytical results for soil samples collected on October 12, 2005 indicated chloride concentrations ranged from 96 mg/Kg (WSSW-12 @ 4-ft bgs) to 4,000 mg/Kg (SESW-10 @ 4-ft bgs) (reference *Table 1* for laboratory analytical data).

Laboratory analytical results for soil samples collected on October 14, 2005 indicated chloride concentrations ranged from 512 mg/Kg (WM-4 @ 8-ft bgs) to 15,900 mg/Kg (NWC-9 @ 8-ft bgs) (reference *Table 1* for laboratory analytical data).

A review of Table 3, *Summary of Soil Boring Soil Sample Field and Laboratory Analytical Results*, for soil samples collected on October 20, 2005 from soil boring BH-1 and BH-2 indicated BTEX and TPH constituents were not detected at or above each analytes respective MDL. However, analytical data indicated chloride concentrations ranged from 455 mg/Kg (BH-2 @ 20-ft bgs) to 3,120 mg/Kg (BH-1 @ 10-ft bgs).

Laboratory analytical results for soil samples collected on March 8, 2006 indicated chloride concentrations ranged from 128 mg/Kg (SP-1 @ 1-ft bgs) to 5,198 mg/Kg (SP-8 @ 2.5-ft bgs) (reference *Table 1* for laboratory analytical data).

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)?*

yes *no*

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

Not applicable.



7.0 **DISCUSSION**

7.1 *Discuss the risks associated with the remaining soil contamination:*

While chloride impacted soil remaining in-situ may be capable of impacting groundwater above NMWQCC groundwater standards, areas with elevated chloride impacted soils were covered by 20-mil polyethylene liner to abate vertical migration of contaminants.

7.2 *Discuss the risks associated with the impacted groundwater:* Not applicable

7.3 *Discuss other concerns not mentioned above:* Not applicable



8.0 CONCLUSIONS AND RECOMMENDATIONS

- 8.1 *Recommendation for the site:*
- Site Closure*
 - Additional Groundwater Monitoring*
 - Corrective Action*

8.2 *Base the recommendation above on Guidelines for Remediation of Leaks, Spills and Releases (August 13, 1993). Describe below how you applied the policy to support your recommendation. If closure is recommended, please summarize significant site investigative events and describe how site specific risk issues have been adequately addressed or minimized to acceptable low risk levels.*

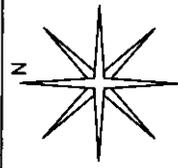
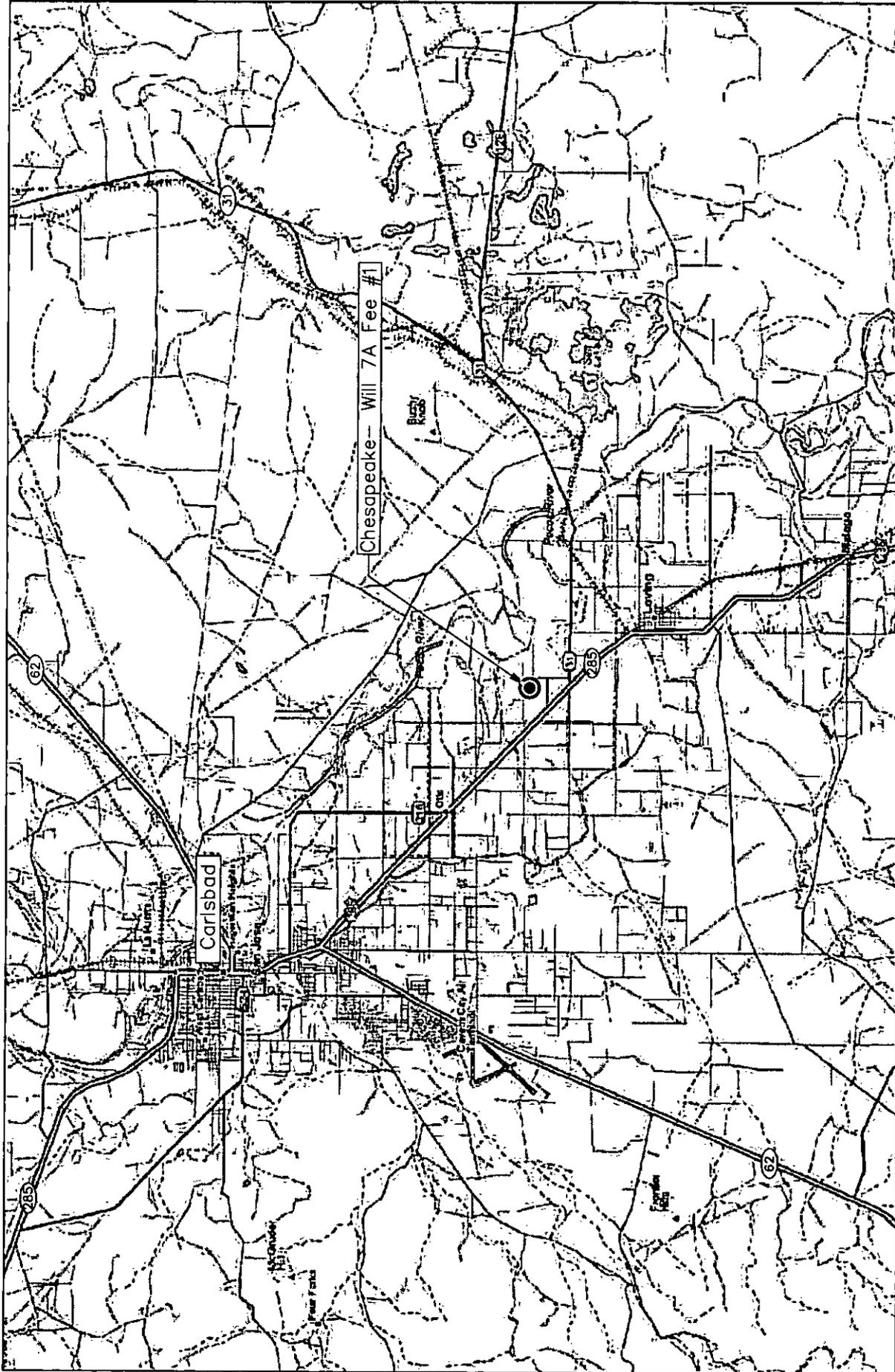
An impervious 20-mil thick polyethylene liner was installed in the bottom of the pit over areas of elevated chloride concentrations. The polyethylene liner was sandwiched between two (2) one (1) foot layers of cushion sand. After backfilling operations were completed, the disturbed area was graded and contoured to allow natural drainage.

8.3 *If additional groundwater monitoring is recommended, indicate the proposed monitoring schedule and frequency. Conduct quarterly monitoring until the NMOCD responds to this report.* Not applicable

8.4 *If corrective action is recommended, provide a conceptual approach.*

Not Applicable

FIGURES



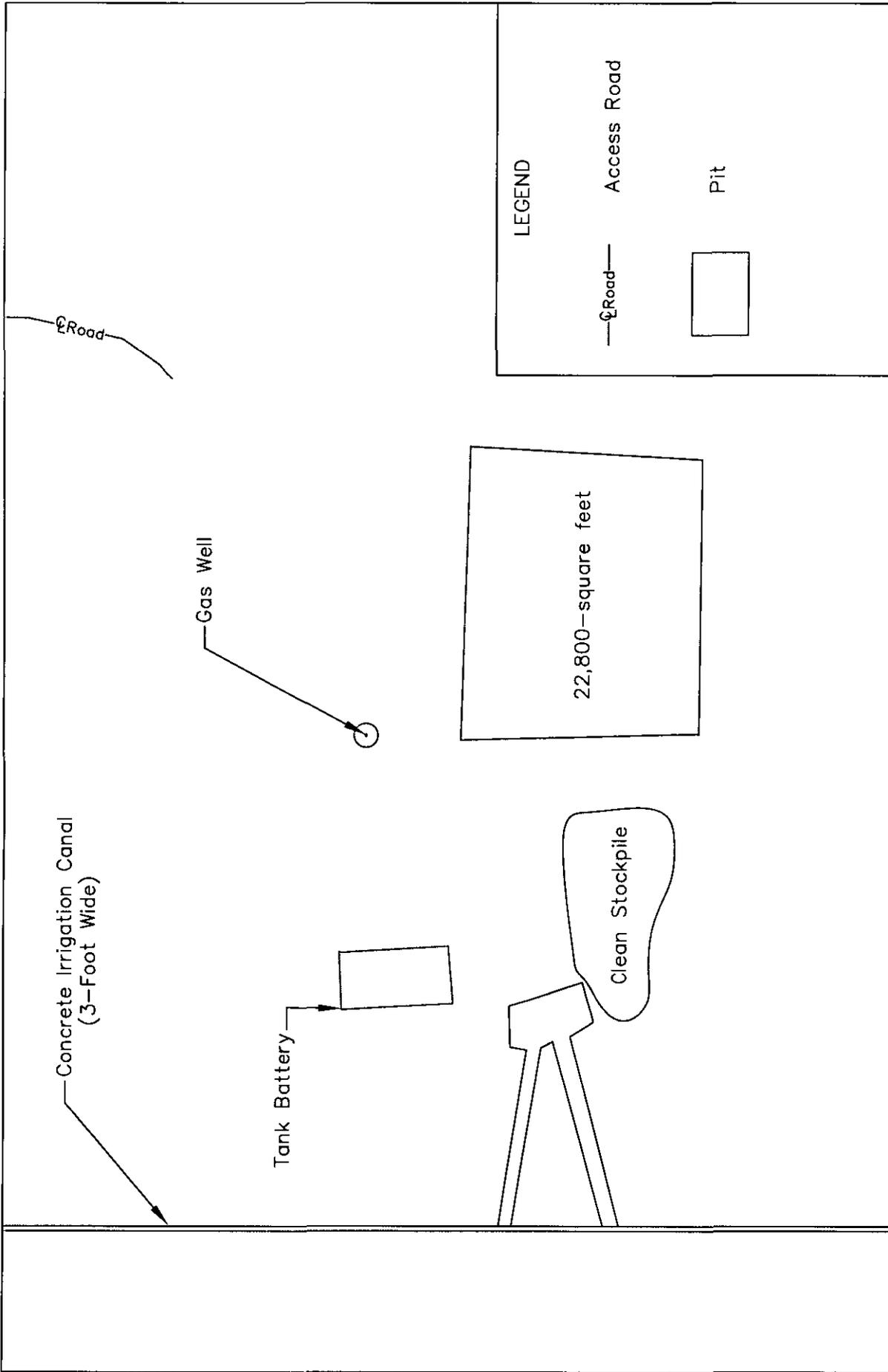
DWG By: Jason Stegemoller
August 2005

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0 3.0 6.0 SHEET
Miles 1 of 1

Eddy County, New Mexico
NE 1/4 of the NE 1/4, Sec. 7, T23S, R28E
N 32° 19' 30.76" W 104° 07' 16.97"
Elevation: 3,041 feet amsl

Figure 1
Area Map
Chesapeake
Will 7A Fee #1

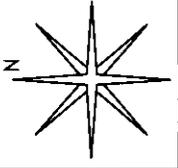


LEGEND

—⊗— Road

— Access Road

□ Pit



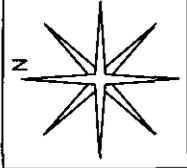
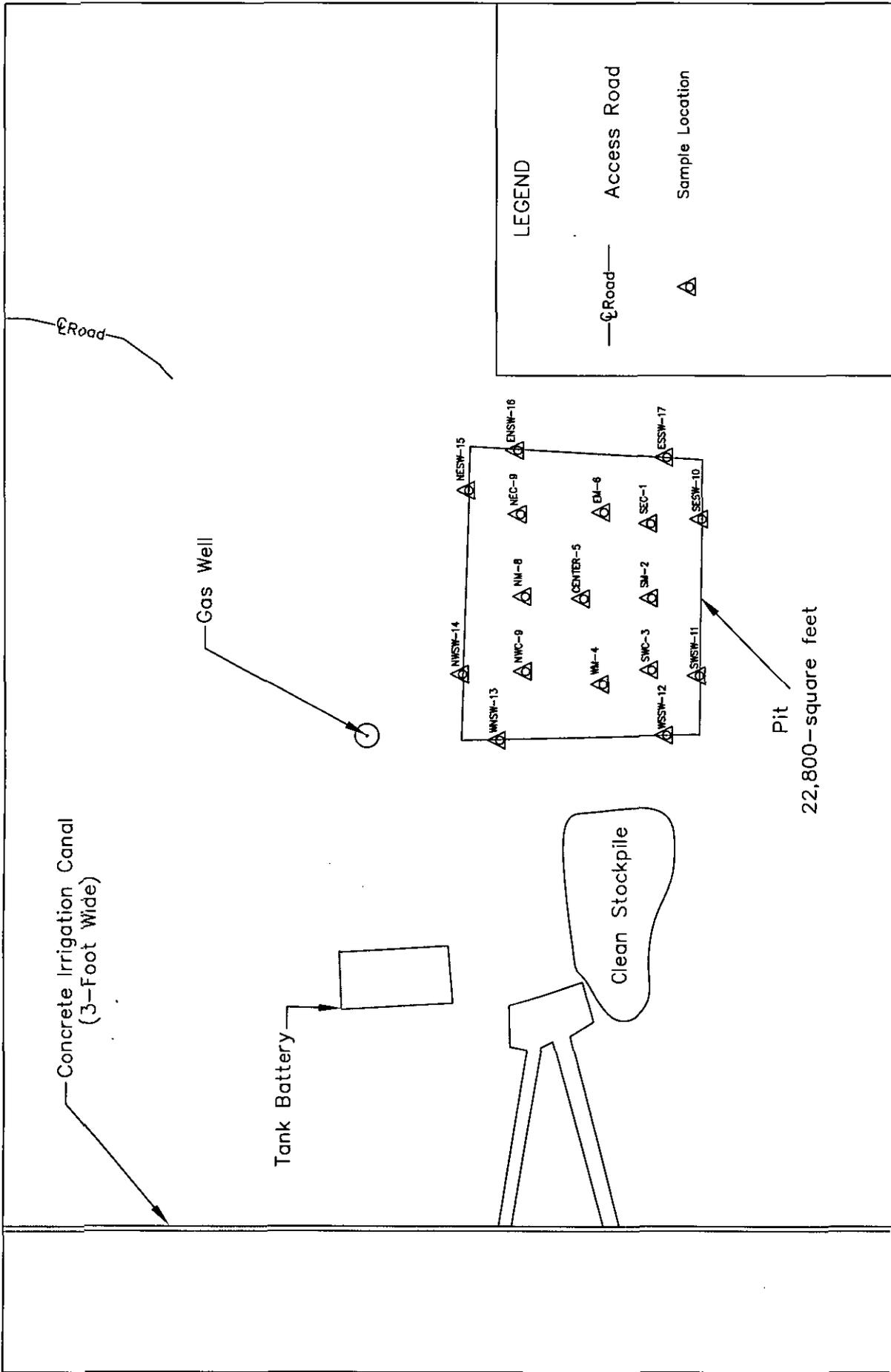
DWG By: Jason Stegemoller
August 2005

REVISED:



Eddy County, New Mexico
NE 1/4 of the NE 1/4, Sec. 7, T23S, R28E
N 32° 19' 30.76" W 104° 07' 16.97"
Elevation: 3,041 feet amsl

Figure 3
Site Map
Chesapeake
Will 7A Fee #1



REVISED:
Nov 2005

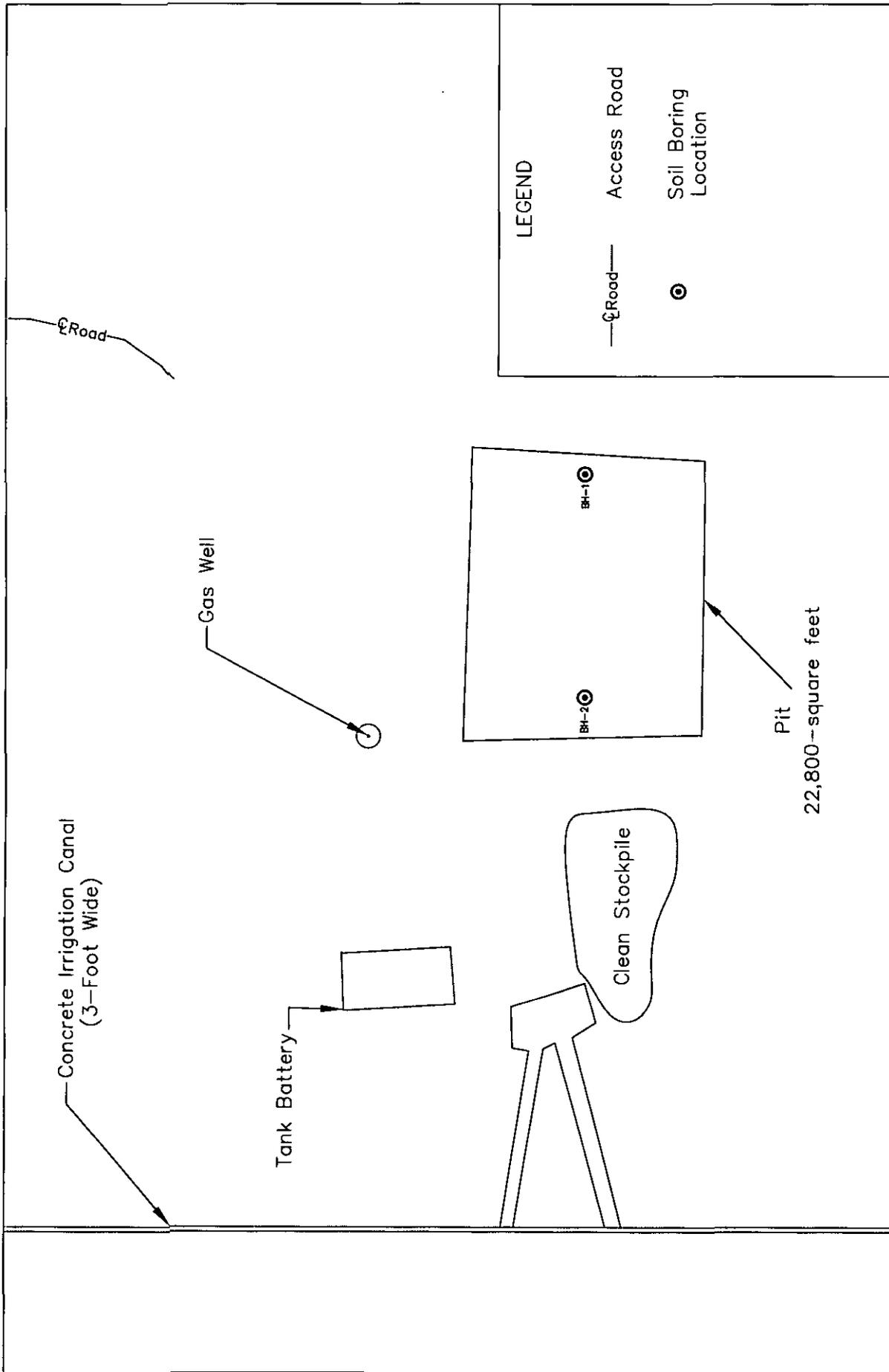
DWG By: Jason Stegemoller
August 2005



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1 of 1

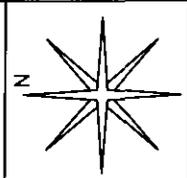
Eddy County, New Mexico
NE 1/4 of the NE 1/4, Sec. 7, T23S, R28E
N 32° 19' 30.76" W 104° 07' 16.97"
Elevation: 3,041 feet amsl

Figure 4
Sample Location Map - 10/12/05
Chesapeake
Will 7A Fee #1



LEGEND

- Road
- Access Road
- ⊙ Soil Boring Location



REVISED:
Nov 2005

180 SHEET
1 of 1

DWG By: Jason Stegemoller
August 2005

Eddy County, New Mexico
NE 1/4 of the NE 1/4, Sec. 7, T23S, R28E
N 32° 19' 30.76" W 104° 07' 16.97"
Elevation: 3,041 feet amsl

Figure 5
Soil Boring Location Map - 10/20/05
Chesapeake
Will 7A Fee #1

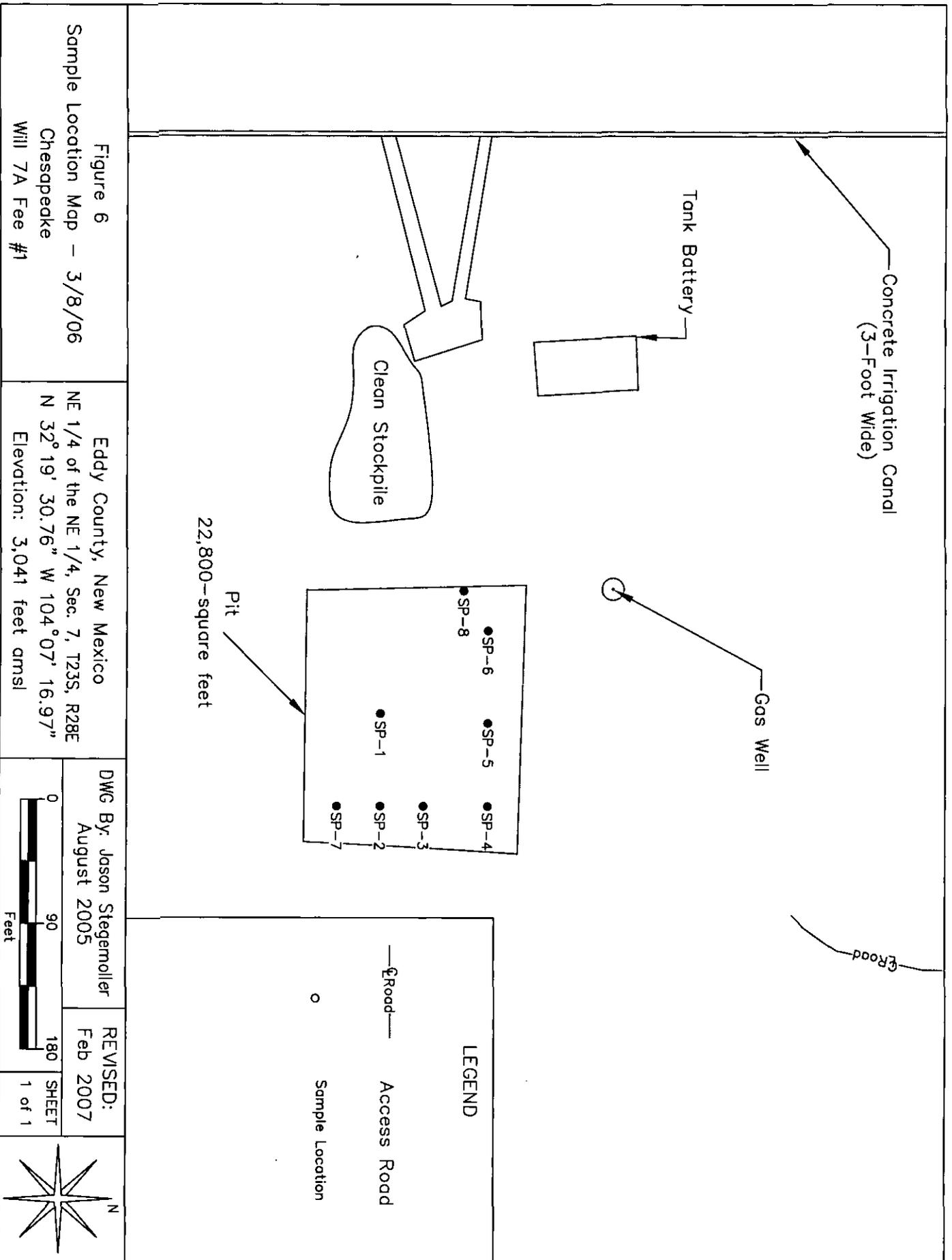
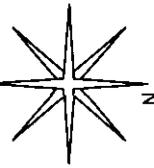


Figure 6
 Sample Location Map – 3/8/06
 Chesapeake
 Will 7A Fee #1

Eddy County, New Mexico
 NE 1/4 of the NE 1/4, Sec. 7, T23S, R28E
 N 32° 19' 30.76" W 104° 07' 16.97"
 Elevation: 3,041 feet amsl

DWG By: Jason Stegemoller
 August 2005

REVISED:
 Feb 2007
 SHEET
 1 of 1



TABLES

TABLE 1

Well Data

Chesapeake Energy Well #A #1 (Ref. #160025)

Well Number	Diversion ^a	Owner	Use	Twp	Rng	Sec	q	q	q	Latitude	Longitude	Date Measured	Well Depth (ft bgs)	Depth to Water (ft bgs)
C 00563	45	Branley Draper	IRR	23S	28E	07	1	1	3	32° 19' 24.11"	104° 08' 4.32"			
C 00563 S		Branley Draper		23S	28E	07	1	1	3	32° 19' 24.11"	103° 08' 4.32"			
C 00563 S-2		Branley Draper		23S	28E	07	1	4	3	32° 19' 11"	103° 07' 49.37"			
C 00063	120	W W Galton	IRR	23S	28E	07	1	3	1	32° 19' 10.93"	103° 08' 4.46"	31-Dec-45	130	
C 00069	234,537	Juan H. Villa	IRR	23S	28E	07	3	3	3	32° 18' 44.58"	104° 08' 4.75"			
C 00069	328.5	Miguel C. Villa	IRR	23S	28E	07	3	3	3	32° 18' 44.58"	104° 08' 4.75"			
C 00069	351,215	New Mexico Interstate Stream Commission	IRR	23S	28E	07	3	3	3	32° 18' 44.58"	104° 08' 4.75"			
C 00563	1,113	Branley Draper	IRR	23S	28E	07	1	1	3	32° 19' 24.11"	103° 08' 4.32"			
C 00563 S		Branley Draper		23S	28E	07	1	1	3	32° 19' 24.11"	103° 08' 4.32"			
C 00563 S-2	15	Branley Draper		23S	28E	07	1	1	3	32° 19' 24.11"	103° 08' 4.32"			
C 00563 S-2		Branley Draper		23S	28E	07	1	4	3	32° 19' 11"	103° 07' 49.37"			
C 00563 S2		Branley Draper		23S	28E	07	1	4	3	32° 19' 11"	103° 07' 49.37"			
C 02845	0	Branley Bros.	EXP	23S	28E	07	1	4	3	32° 19' 11"	103° 07' 49.37"		220	
C 02846	57	Branley Bros.	COM	23S	28E	07	1	4	3	32° 19' 24.11"	103° 08' 4.32"	31-Dec-38	60	50
C 02846 ENL-S		Branley Bros.		23S	28E	07	1	4	3	32° 19' 24.11"	103° 08' 4.32"			
C 02846 S		Branley Bros.		23S	28E	07	4	4	4	32° 18' 44.81"	103° 07' 18.72"			
C 00058	392.1	Farm Credit of New Mexico	IRR	23S	28E	06	3	4	3	32° 19' 37.33"	103° 07' 18.72"	18-Apr-03	150	40
C 00058 S		Farm Credit of New Mexico		23S	28E	06	3	4	3	32° 19' 37.33"	103° 07' 49.14"	06-May-48	185	20
C 00058	186.3	Joe N. Carrasco	IRR	23S	28E	06	3	3	3	32° 19' 37.29"	103° 08' 4.17"	13-Mar-02	202	60
C 00958	3	Jerry F. Ballard	DOM	23S	28E	06	2	1	2	32° 20' 16.9"	104° 07' 33.42"	09-Aug-61	185	20
C 01397	0	Gomez Ramon	IRR	23S	28E	06	4	4						
C 01448	0	Gomez Ramon	IRR	23S	28E	06	4	4						
C 01634	3	Grady O. Dodson	DOM	23S	28E	06	4	2				03-Feb-76	185	85
C 01699	3	Tom McIlvain	DOM	23S	28E	06	4	2				15-Jul-77	90	65
C 01982	0	Justin Magby	DOM	23S	28E	06	3	4						
C 01993	3	Read & Stevens	PRO	23S	28E	06	3	2						
C 02064	3	Justin Magby	DOM	23S	28E	06	3	4						
C 02141	3	Edgar Magby	DOM	23S	28E	06	4	4						
C 02343	3	Edgar Magby	DOM	23S	28E	06	4	4						
C 02511	3	Hernandez Daniel	DOM	23S	28E	06	1	2						
C 02735	3	Julius Roberson	DOM	23S	28E	06	1	2						
C 02736	3	Julius Roberson	DOM	23S	28E	06	1	2						
C 00058 S	0	Julius Roberson	EXP	23S	28E	06	3	3						
C 02883	3	Julius Roberson Jr.	STK	23S	28E	06	3	2						
C 02883	3	Julius Roberson	STK	23S	28E	06	3	2						
C 02943	3	William J. and Diann Redfearn	DOM	23S	28E	06	3	1						
C 02736	0	Nadel & Gussan Permian LLC	PRO	23S	28E	06	3	2						
C 02736	0	Chesapeake Operating	PRO	23S	28E	06	3	2						
C 03216	3	Judy Parker	DOM	23S	28E	07	1	3						
USGS #1				23S	28E	07	1	3				27-Jan-03	195	39.79
USGS #2				23S	28E	07	1	3				03-Jan-78		58.14
USGS #3				23S	28E	07	1	3				24-Jan-96		25.3
USGS #4				23S	28E	07	3	3				12-Aug-48		45.1
USGS #5				23S	28E	06	1	3				10-Jan-75		25.79

* = Data obtained from the New Mexico Office of the State Engineer Website (http://waters.ose.state.nm.us:7001/WATERS/vw_RegisServlet1)

Well locations shown on Figure 2

^a = in acre feet per annum

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

IND = Industrial

IRR = Irrigation

DOM = Domestic

EXP = Exploration

PRO = Prospecting or Development of Natural Resources

STK = Livestock Watering

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

TABLE 2

Summary of Soil Sample Laboratory Analytical Results

Chesapeake Energy - Will 7 Fee (Ref.# 160025)

Sample Location	Sample I.D.	Depth (feet)	Soil Status	PID Field Analysis (ppm)	Field Chloride Analyses (mg/Kg)	Sample Date	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)	Total TPH (mg/Kg)	Chloride (mg/Kg)
P i t S i d e w a i l	SESW-10	4	In Situ	5.8	3,600	14-Oct-05	<0.005	<0.005	<0.005	<0.015	<0.10	<10.0	<10.0	<10.0	4,000
	SWSW-11	4	In Situ	15.5	760	14-Oct-05	<0.005	<0.005	<0.005	<0.015	<0.10	<10.0	<10.0	<10.0	672
	WSSW-12	4	In Situ	7.1	200	14-Oct-05	<0.005	<0.005	<0.005	<0.015	<0.10	<10.0	<10.0	<10.0	96
	WNSW-13	4	In Situ	15.5	6,000	14-Oct-05	<0.005	<0.005	<0.005	<0.015	<0.10	<10.0	<10.0	<10.0	5,730
	NWSW-14	4	In Situ	3	1,800	14-Oct-05	<0.005	<0.005	<0.005	<0.015	<0.10	<10.0	<10.0	<10.0	1,790
	NESW-15	4	In Situ	3.5	1,360	14-Oct-05	<0.005	<0.005	<0.005	<0.015	<0.10	<10.0	<10.0	<10.0	1,360
	ENSW-16	4	In Situ	0.1	1,400	14-Oct-05	<0.005	<0.005	<0.005	<0.015	<0.10	<10.0	<10.0	<10.0	1,839
P i t F i l o o r	ESSW-17	4	In Situ	0.1	1,600	14-Oct-05	<0.005	<0.005	<0.005	<0.015	<0.10	<10.0	<10.0	<10.0	1,580
	SEC-1	8	In Situ	10.5	8,960	12-Oct-05	<0.005	<0.005	<0.005	<0.015	<0.10	<10.0	<10.0	<10.0	12,100
	SM-2	8	In Situ	0.0	1,280	12-Oct-05	<0.005	<0.005	<0.005	<0.015	<0.10	<10.0	<10.0	<10.0	6,960
	SWC-3	8	In Situ	0.0	2,720	12-Oct-05	<0.005	<0.005	<0.005	<0.015	<0.10	<10.0	<10.0	<10.0	3,420
	EM-6	8	In Situ	0.0	480	12-Oct-05	<0.005	<0.005	<0.005	<0.015	<0.10	<10.0	<10.0	<10.0	13,000
	CENTER-5	8	In Situ	0.0	5,520	12-Oct-05	<0.005	<0.005	<0.005	<0.015	<0.10	<10.0	<10.0	<10.0	1,710
	WM-4	8	In Situ	0.0	13,640	12-Oct-05	<0.005	<0.005	<0.005	<0.015	<0.10	<10.0	<10.0	<10.0	512
	NWC-9	8	In Situ	0.0	2,960	12-Oct-05	<0.005	<0.005	<0.005	<0.015	<0.10	<10.0	<10.0	<10.0	15,900
	NM-8	8	In Situ	0.0	5,120	12-Oct-05	<0.005	<0.005	<0.005	<0.015	<0.10	<10.0	<10.0	<10.0	6,480
NEC-9	8	In Situ	0.0	12,000	12-Oct-05	<0.005	<0.005	<0.005	<0.015	<0.10	<10.0	<10.0	<10.0	6,080	

TABLE 2

Summary of Soil Sample Laboratory Analytical Results

Chesapeake Energy - Will 7 Fee (Ref.# 160025)

Sample Location	Sample I.D.	Depth (feet)	Soil Status	PID Field Analysis (ppm)	Field Chloride Analyses (mg/Kg)	Sample Date	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)	Total TPH (mg/Kg)	Chloride (mg/Kg)
P i t F i o r	SP-1	1	In Situ	0.0	220	08-Mar-06	--	--	--	--	--	--	--	--	128
	SP-2	2.5	In Situ	0.0	800	08-Mar-06	--	--	--	--	--	--	--	--	1,200
	SP-3	2.5	In Situ	0.0	560	08-Mar-06	--	--	--	--	--	--	--	--	400
	SP-4	2.5	In Situ	0.0	2,500	08-Mar-06	--	--	--	--	--	--	--	--	240
	SP-5	2.5	In Situ	0.0	4,000	08-Mar-06	--	--	--	--	--	--	--	--	1,679
	SP-6	2.5	In Situ	0.0	560	08-Mar-06	--	--	--	--	--	--	--	--	928
	SP-7	2.5	In Situ	0.0	3,560	08-Mar-06	--	--	--	--	--	--	--	--	4,639
	SP-8	2.5	In Situ	0.0	4,000	08-Mar-06	--	--	--	--	--	--	--	--	5,198
NMOC Remedial Thresholds															
10															
50															
1,000															
250²															

Bolded values are in excess of NMOC Remediation Thresholds

¹ *Estimated concentration, analyte detected below method detection limits*

² *Chloride residuals may not be capable of impacting local groundwater above the NMWQCC standards of 250 mg/L.*

-- = not analyzed

APPENDICES

APPENDIX I
PROJECT PHOTOGRAPHS



Photograph #1 – Lease sign.



Photograph #2 – Looking westerly at pit area and liner.



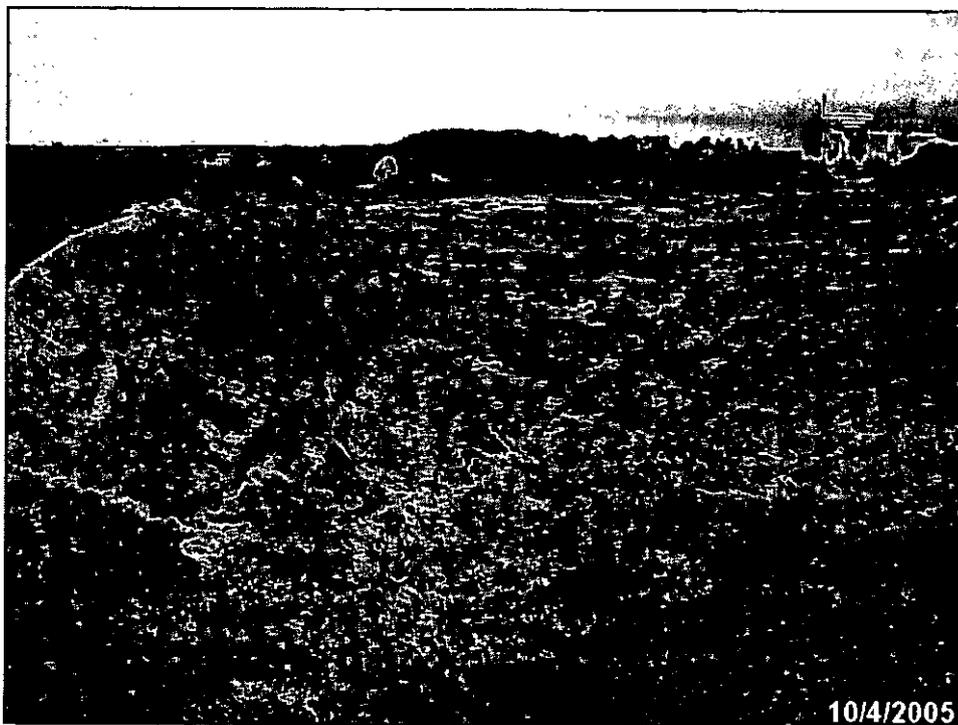
Photograph #3 – Looking easterly at pit area.



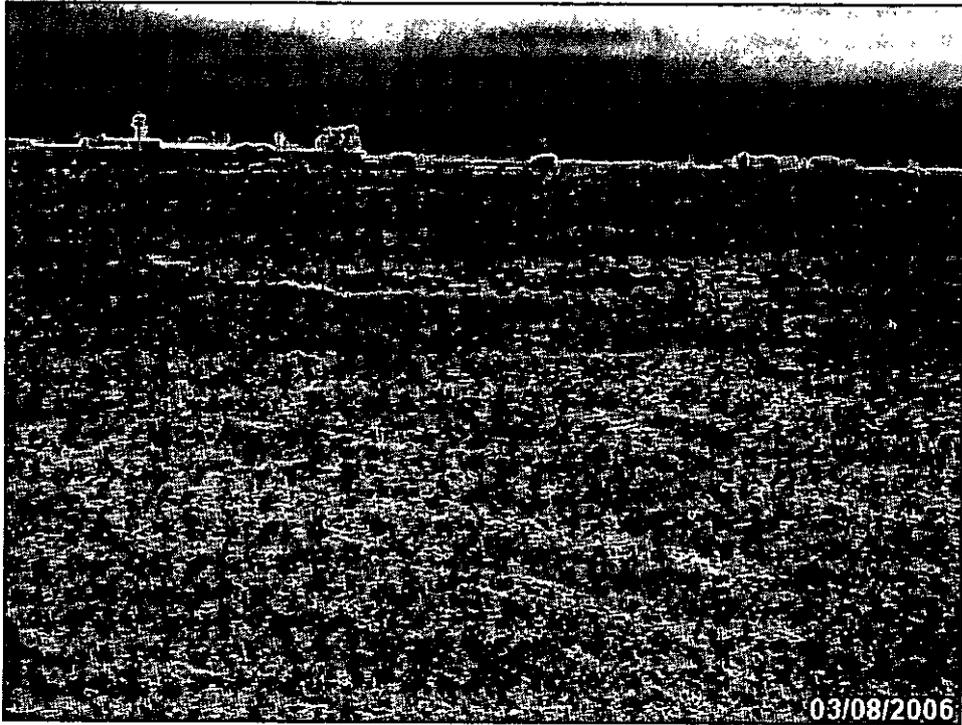
Photograph #4 – Looking southwesterly at excavation and clean stockpile.



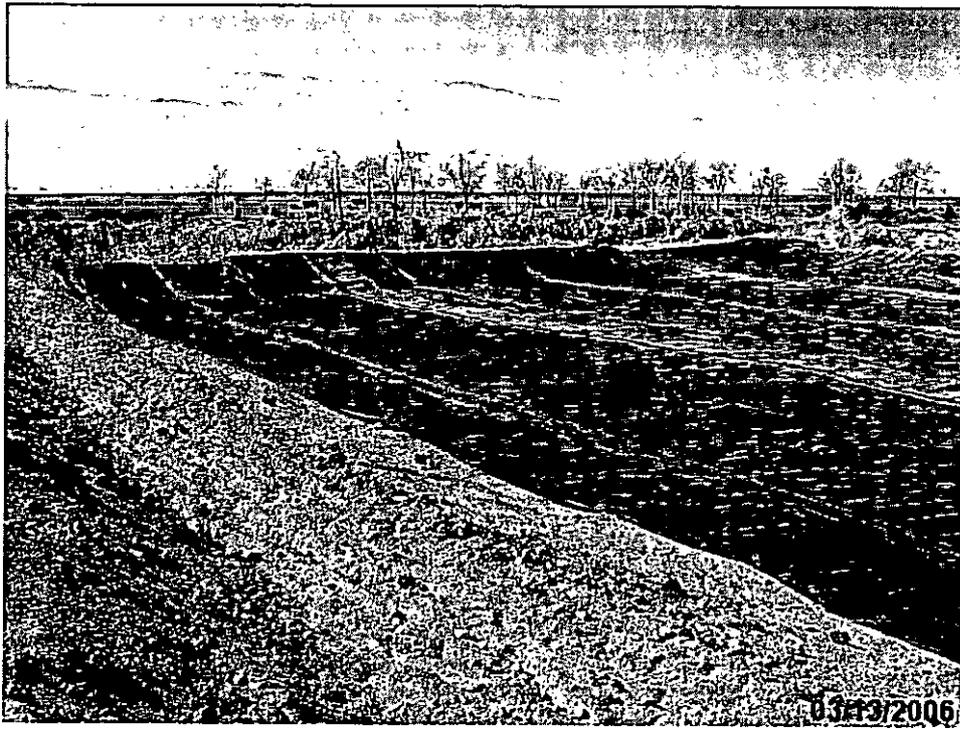
Photograph #5 – Looking northeasterly at excavation.



Photograph #6 – Looking westerly at excavation.



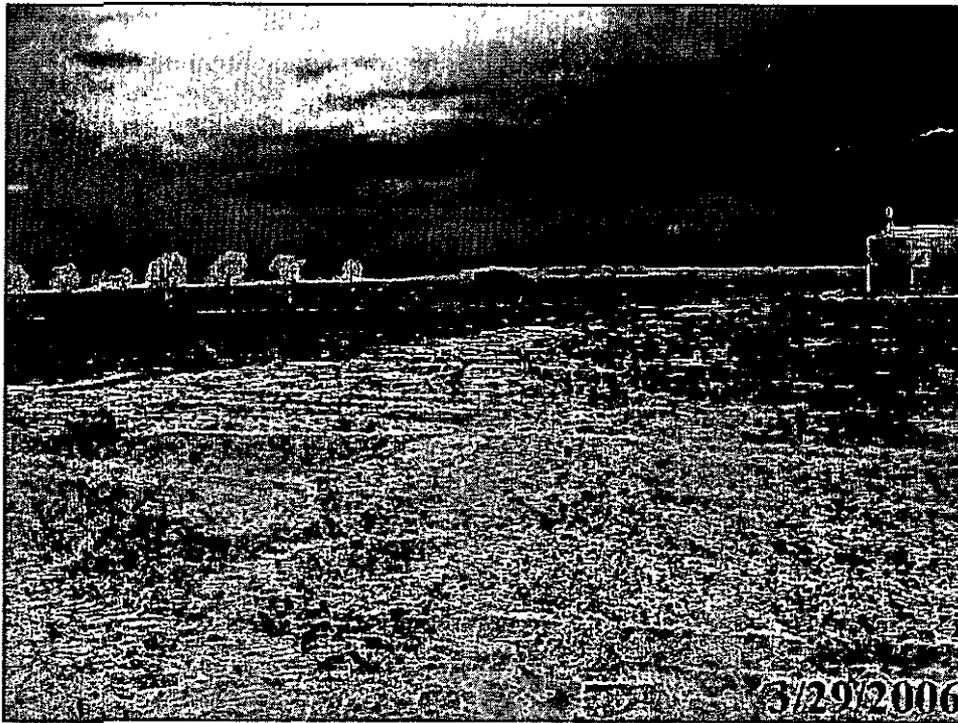
Photograph #7 – Looking northeasterly at excavation.



Photograph #8 – Looking southwesterly at liner.



Photograph #9 – Looking southerly at closed site, contoured and ready for seeding.



Photograph #10 - Looking west at closed site, contoured and ready for seeding.

APPENDIX II

**LABORATORY ANALYTICAL REPORTS AND CHAIN-
OF-CUSTODY FORMS**



**ARDINAL
LABORATORIES**

PHONE (325) 673-7001 • 2111 BEECHWOOD • ABILENE, TX 79603

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 FAX TO: (505) 394-2601

Receiving Date: 10/17/05
Reporting Date: 10/20/05
Project Owner: CHESAPEAKE OPERATING (#160025)
Project Name: WILL 7 FEE
Project Location: UL-A SEC. 7, T23S, R28E

Sampling Date: 10/12/05
Sample Type: SOIL
Sample Condition: COOL & INTACT
Sample Received By: BC
Analyzed By: HM

LAB NUMBER	SAMPLE ID	BENZENE (mg/Kg)	TOLUENE (mg/Kg)	ETHYL BENZENE (mg/Kg)	TOTAL XYLENES (mg/Kg)
ANALYSIS DATE		10/18/05	10/18/05	10/18/05	10/18/05
H10310-1	SEC-1 (8')	<0.005	<0.005	<0.005	<0.015
H10310-2	SM-2 (8')	<0.005	<0.005	<0.005	<0.015
H10310-3	SWC-3 (8')	<0.005	<0.005	<0.005	<0.015
H10310-4	EM-6 (8')	<0.005	<0.005	<0.005	<0.015
H10310-5	CENTER-5 (8')	<0.005	<0.005	<0.005	<0.015
H10310-6	WM-4 (8')	<0.005	<0.005	<0.005	<0.015
H10310-7	NWC-9 (8')	<0.005	<0.005	<0.005	<0.015
H10310-8	NM-8 (8')	<0.005	<0.005	<0.005	<0.015
H10310-9	NEC-9 (8')	<0.005	<0.005	<0.005	<0.015
Quality Control		0.091	0.091	0.096	0.293
True Value QC		0.100	0.100	0.100	0.300
% Recovery		90.6	91.2	96.3	97.7
Relative Percent Difference		4.0	4.3	2.3	0.9

METHOD: EPA SW-846 8260

Bryan J. Cooke
Chemist

10/20/05
Date

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 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.



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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

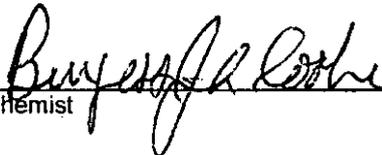
Receiving Date: 10/17/05
Reporting Date: 10/20/05
Project Owner: CHESAPEAKE OPERATING (#160025)
Project Name: WILL 7 FEE
Project Location: UL-A SEC. 7, T23S, R28E

Sampling Date: 10/12/05
Sample Type: SOIL
Sample Condition: COOL & INTACT
Sample Received By: BC
Analyzed By: BC/HM

LAB NUMBER	SAMPLE ID	GRO (C ₆ -C ₁₀) (mg/Kg)	DRO (>C ₁₀ -C ₂₈) (mg/Kg)	CI* (mg/Kg)
ANALYSIS DATE		10/18/05	10/18/05	10/18/05
H10310-1	SEC-1 (8')	<10	<10	12100
H10310-2	SM-2 (8')	<10	<10	6960
H10310-3	SWC-3 (8')	<10	<10	3420
H10310-4	EM-6 (8')	<10	<10	13000
H10310-5	CENTER-5 (8')	<10	<10	1710
H10310-6	WM-4 (8')	<10	<10	512
H10310-7	NWC-9 (8')	<10	<10	15900
H10310-8	NM-8 (8')	<10	<10	6480
H10310-9	NEC-9 (8')	<10	<10	6080
Quality Control		754	770	990
True Value QC		800	800	1000
% Recovery		94.3	96.2	99.0
Relative Percent Difference		0.5	1.0	2.0

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

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


Chemist

10/20/05
Date

H10310A.XLS

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 FAX FAX TO: (505) 394-2601

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 Reporting Date: 10/20/05
 Project Owner: CHESAPEAKE OPERATING (#160025)
 Project Name: WILL 7 FEE
 Project Location: UL-A SEC. 7, T23S, R28E

Sampling Date: 10/14/05
 Sample Type: SOIL
 Sample Condition: COOL & INTACT
 Sample Received By: BC
 Analyzed By: HM

LAB NUMBER	SAMPLE ID	BENZENE (mg/Kg)	TOLUENE (mg/Kg)	ETHYL BENZENE (mg/Kg)	TOTAL XYLENES (mg/Kg)
ANALYSIS DATE		10/18/05	10/18/05	10/18/05	10/18/05
H10311-1	SESW-10 (4')	<0.005	<0.005	<0.005	<0.015
H10311-2	SWSW-11 (4')	<0.005	<0.005	<0.005	<0.015
H10311-3	WSSW-12 (4')	<0.005	<0.005	<0.005	<0.015
H10311-4	WNSW-13 (4')	<0.005	<0.005	<0.005	<0.015
H10311-5	NWSW-14 (4')	<0.005	<0.005	<0.005	<0.015
H10311-6	NESW-15 (4')	<0.005	<0.005	<0.005	<0.015
H10311-7	ENSW-16 (4')	<0.005	<0.005	<0.005	<0.015
H10311-8	ESSW-17 (4')	<0.005	<0.005	<0.005	<0.015
Quality Control		0.091	0.091	0.096	0.293
True Value QC		0.100	0.100	0.100	0.300
% Recovery		90.6	91.2	96.3	97.7
Relative Percent Difference		4.0	4.3	2.3	0.9

METHOD: EPA SW-846 8260

Bryan J. Cash
 Chemist

10/20/05
 Date

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

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

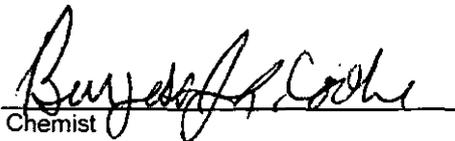
Receiving Date: 10/17/05
Reporting Date: 10/20/05
Project Owner: CHESAPEAKE OPERATING (#160025)
Project Name: WILL 7 FEE
Project Location: UL-A SEC. 7, T23S, R28E

Sampling Date: 10/14/05
Sample Type: SOIL
Sample Condition: COOL & INTACT
Sample Received By: BC
Analyzed By: BC/HM

LAB NUMBER	SAMPLE ID	GRO (C ₆ -C ₁₀) (mg/Kg)	DRO (>C ₁₀ -C ₂₈) (mg/Kg)	Cl* (mg/Kg)
ANALYSIS DATE		10/18/05	10/18/05	10/18/05
H10311-1	SESW-10 (4')	<10	<10	4000
H10311-2	SWSW-11 (4')	<10	<10	672
H10311-3	WSSW-12 (4')	<10	<10	96
H10311-4	WNSW-13 (4')	<10	<10	5730
H10311-5	NWSW-14 (4')	<10	<10	1790
H10311-6	NESW-15 (4')	<10	<10	1360
H10311-7	ENSW-16 (4')	<10	<10	1839
H10311-8	ESSW-17 (4')	<10	<10	1580
Quality Control		754	770	990
True Value QC		800	800	1000
% Recovery		94.3	96.2	99.0
Relative Percent Difference		0.5	1.0	2.0

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

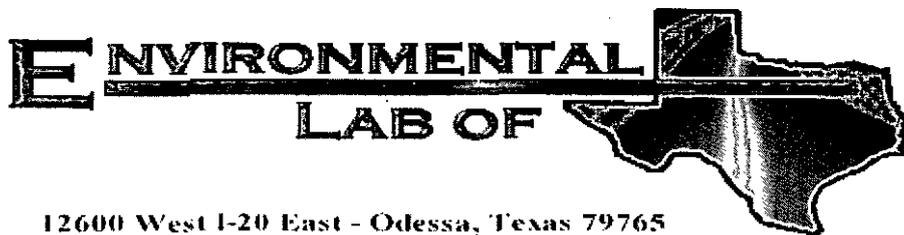
*Analyses performed on 1:4 w.v aqueous extracts.


Chemist

10/20/05
Date

H10311A.XLS

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12600 West I-20 East - Odessa, Texas 79765

Analytical Report

Prepared for:

Iain Olness

Environmental Plus, Incorporated

P.O. Box 1558

Eunice, NM 88231

Project: Chesapeake/ Will 7 Fcc

Project Number: 160025

Location: UL-A, Sect. 7, T 23 S, R 28 E

Lab Order Number: 5J25002

Report Date: 10/31/05

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

Project: Chesapeake/ Will 7 Fee
Project Number: 160025
Project Manager: Iain Olness

Fax: 505-394-2601

Reported:
10/31/05 11:19

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
BH-1 (10')	SJ25002-01	Soil	10/20/05 08:31	10/24/05 16:20
BH-1 (15')	SJ25002-02	Soil	10/20/05 08:52	10/24/05 16:20
BH-1 (20')	SJ25002-03	Soil	10/20/05 09:00	10/24/05 16:20
BH-2 (10')	SJ25002-04	Soil	10/20/05 09:29	10/24/05 16:20
BH-2 (15')	SJ25002-05	Soil	10/20/05 09:35	10/24/05 16:20
BH-1 (20')	SJ25002-06	Soil	10/20/05 09:48	10/24/05 16:20

Organics by GC
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BH-1 (10') (5J25002-01) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EJ52509	10/25/05	10/26/05	EPA 8021B	
Toluene	ND	0.0250	"	"	"	"	"	"	
Ethylbenzene	ND	0.0250	"	"	"	"	"	"	
Xylene (p/m)	ND	0.0250	"	"	"	"	"	"	
Xylene (o)	ND	0.0250	"	"	"	"	"	"	
<i>Surrogate: a,a,a-Trifluorotoluene</i>		85.0 %	80-120		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		91.2 %	80-120		"	"	"	"	
Gasoline Range Organics C6-C12	ND	10.0	mg/kg dry	1	EJ52504	10/25/05	10/26/05	EPA 8015M	
Diesel Range Organics >C12-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbon C6-C35	ND	10.0	"	"	"	"	"	"	
<i>Surrogate: 1-Chlorooctane</i>		86.8 %	70-130		"	"	"	"	
<i>Surrogate: 1-Chlorooctadecane</i>		124 %	70-130		"	"	"	"	
BH-2 (10') (5J25002-04) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EJ52509	10/25/05	10/26/05	EPA 8021B	
Toluene	ND	0.0250	"	"	"	"	"	"	
Ethylbenzene	ND	0.0250	"	"	"	"	"	"	
Xylene (p/m)	ND	0.0250	"	"	"	"	"	"	
Xylene (o)	ND	0.0250	"	"	"	"	"	"	
<i>Surrogate: a,a,a-Trifluorotoluene</i>		105 %	80-120		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		95.8 %	80-120		"	"	"	"	
Gasoline Range Organics C6-C12	ND	10.0	mg/kg dry	1	EJ52504	10/25/05	10/26/05	EPA 8015M	
Diesel Range Organics >C12-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbon C6-C35	ND	10.0	"	"	"	"	"	"	
<i>Surrogate: 1-Chlorooctane</i>		84.4 %	70-130		"	"	"	"	
<i>Surrogate: 1-Chlorooctadecane</i>		82.0 %	70-130		"	"	"	"	
BH-2 (15') (5J25002-05) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EJ52509	10/25/05	10/26/05	EPA 8021B	
Toluene	ND	0.0250	"	"	"	"	"	"	
Ethylbenzene	ND	0.0250	"	"	"	"	"	"	
Xylene (p/m)	ND	0.0250	"	"	"	"	"	"	
Xylene (o)	ND	0.0250	"	"	"	"	"	"	
<i>Surrogate: a,a,a-Trifluorotoluene</i>		98.8 %	80-120		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		92.5 %	80-120		"	"	"	"	
Gasoline Range Organics C6-C12	ND	10.0	mg/kg dry	1	EJ52504	10/25/05	10/26/05	EPA 8015M	
Diesel Range Organics >C12-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbon C6-C35	ND	10.0	"	"	"	"	"	"	

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/ Will 7 Fee
Project Number: 160025
Project Manager: Iain Olness

Fax: 505-394-2601

Reported:
10/31/05 11:19

Organics by GC
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BH-2 (15') (5J25002-05) Soil									
Surrogate: 1-Chlorooctane		98.2 %	70-130		EJ52504	10/25/05	10/26/05	EPA 8015M	
Surrogate: 1-Chlorooctadecane		95.0 %	70-130		"	"	"	"	

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BH-1 (10') (5J25002-01) Soil									
Chloride	3120	100	mg/kg	200	EJ52617	10/25/05	10/26/05	EPA 300.0	
% Moisture	11.4	0.1	%	1	EJ52603	10/25/05	10/26/05	% calculation	
BH-1 (15') (5J25002-02) Soil									
Chloride	939	20.0	mg/kg	40	EJ52617	10/25/05	10/26/05	EPA 300.0	
BH-1 (20') (5J25002-03) Soil									
Chloride	1240	20.0	mg/kg	40	EJ52617	10/25/05	10/26/05	EPA 300.0	
BH-2 (10') (5J25002-04) Soil									
Chloride	719	10.0	mg/kg	20	EJ52617	10/25/05	10/26/05	EPA 300.0	
% Moisture	3.3	0.1	%	1	EJ52603	10/25/05	10/26/05	% calculation	
BH-2 (15') (5J25002-05) Soil									
Chloride	463	10.0	mg/kg	20	EJ52617	10/25/05	10/26/05	EPA 300.0	
% Moisture	19.3	0.1	%	1	EJ52603	10/25/05	10/26/05	% calculation	
BH-1 (20') (5J25002-06) Soil									
Chloride	455	10.0	mg/kg	20	EJ52617	10/25/05	10/26/05	EPA 300.0	

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

Project: Chesapeake/ Will 7 Fee
Project Number: 160025
Project Manager: Iain Olness

Fax: 505-394-2601

Reported:
10/31/05 11:19

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
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Batch EJ52504 - Solvent Extraction (GC)

Blank (EJ52504-BLK1)

Prepared: 10/25/05 Analyzed: 10/26/05

Gasoline Range Organics C6-C12	ND	10.0	mg/kg wet							
Diesel Range Organics >C12-C35	ND	10.0	"							
Total Hydrocarbon C6-C35	ND	10.0	"							
Surrogate: 1-Chlorooctane	49.8		mg/kg	50.0		99.6	70-130			
Surrogate: 1-Chlorooctadecane	48.8		"	50.0		97.6	70-130			

LCS (EJ52504-BS1)

Prepared: 10/25/05 Analyzed: 10/26/05

Gasoline Range Organics C6-C12	462	10.0	mg/kg wet	500		92.4	75-125			
Diesel Range Organics >C12-C35	439	10.0	"	500		87.8	75-125			
Total Hydrocarbon C6-C35	901	10.0	"	1000		90.1	75-125			
Surrogate: 1-Chlorooctane	53.4		mg/kg	50.0		107	70-130			
Surrogate: 1-Chlorooctadecane	57.9		"	50.0		116	70-130			

Calibration Check (EJ52504-CCV1)

Prepared: 10/25/05 Analyzed: 10/26/05

Gasoline Range Organics C6-C12	434		mg/kg	500		86.8	80-120			
Diesel Range Organics >C12-C35	405		"	500		81.0	80-120			
Total Hydrocarbon C6-C35	839		"	1000		83.9	80-120			
Surrogate: 1-Chlorooctane	49.2		"	50.0		98.4	70-130			
Surrogate: 1-Chlorooctadecane	52.1		"	50.0		104	70-130			

Matrix Spike (EJ52504-MS1)

Source: 5J25001-02

Prepared: 10/25/05 Analyzed: 10/27/05

Gasoline Range Organics C6-C12	587	10.0	mg/kg dry	576	ND	102	75-125			
Diesel Range Organics >C12-C35	570	10.0	"	576	13.6	96.6	75-125			
Total Hydrocarbon C6-C35	1160	10.0	"	1150	13.6	99.7	75-125			
Surrogate: 1-Chlorooctane	47.5		mg/kg	50.0		95.0	70-130			
Surrogate: 1-Chlorooctadecane	59.2		"	50.0		118	70-130			

Matrix Spike Dup (EJ52504-MSD1)

Source: 5J25001-02

Prepared: 10/25/05 Analyzed: 10/26/05

Gasoline Range Organics C6-C12	530	10.0	mg/kg dry	576	ND	92.0	75-125	10.2	20	
Diesel Range Organics >C12-C35	508	10.0	"	576	13.6	85.8	75-125	11.5	20	
Total Hydrocarbon C6-C35	1040	10.0	"	1150	13.6	89.3	75-125	10.9	20	
Surrogate: 1-Chlorooctane	54.3		mg/kg	50.0		109	70-130			
Surrogate: 1-Chlorooctadecane	58.1		"	50.0		116	70-130			

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.

Page 5 of 9

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
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Batch EJ52509 - EPA 5030C (GC)

Blank (EJ52509-BLK1)

Prepared & Analyzed: 10/25/05

Benzene	ND	0.0250	mg/kg wet							
Toluene	ND	0.0250	"							
Ethylbenzene	ND	0.0250	"							
Xylene (p/m)	ND	0.0250	"							
Xylene (o)	ND	0.0250	"							
Surrogate: <i>a,a,a</i> -Trifluorotoluene	38.0		ug/kg	40.0		95.0	80-120			
Surrogate: 4-Bromofluorobenzene	40.4		"	40.0		101	80-120			

LCS (EJ52509-BS1)

Prepared & Analyzed: 10/25/05

Benzene	0.0526	0.00100	mg/kg wet	0.0500		105	80-120			
Toluene	0.0537	0.00100	"	0.0500		107	80-120			
Ethylbenzene	0.0587	0.00100	"	0.0500		117	80-120			
Xylene (p/m)	0.114	0.00100	"	0.100		114	80-120			
Xylene (o)	0.0575	0.00100	"	0.0500		115	80-120			
Surrogate: <i>a,a,a</i> -Trifluorotoluene	38.6		ug/kg	40.0		96.5	80-120			
Surrogate: 4-Bromofluorobenzene	45.1		"	40.0		113	80-120			

Calibration Check (EJ52509-CCV1)

Prepared: 10/25/05 Analyzed: 10/26/05

Benzene	49.8		ug/kg	50.0		99.6	80-120			
Toluene	49.8		"	50.0		99.6	80-120			
Ethylbenzene	54.2		"	50.0		108	80-120			
Xylene (p/m)	103		"	100		103	80-120			
Xylene (o)	54.8		"	50.0		110	80-120			
Surrogate: <i>a,a,a</i> -Trifluorotoluene	34.8		"	40.0		87.0	80-120			
Surrogate: 4-Bromofluorobenzene	36.0		"	40.0		90.0	80-120			

Matrix Spike (EJ52509-MS1)

Source: 5J25005-02

Prepared: 10/25/05 Analyzed: 10/26/05

Benzene	1.29	0.0250	mg/kg dry	1.34	ND	96.3	80-120			
Toluene	1.34	0.0250	"	1.34	0.0127	99.1	80-120			
Ethylbenzene	1.55	0.0250	"	1.34	0.0225	114	80-120			
Xylene (p/m)	2.93	0.0250	"	2.68	0.0609	107	80-120			
Xylene (o)	1.45	0.0250	"	1.34	0.0264	106	80-120			
Surrogate: <i>a,a,a</i> -Trifluorotoluene	35.3		ug/kg	40.0		88.2	80-120			
Surrogate: 4-Bromofluorobenzene	42.2		"	40.0		106	80-120			

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

Project: Chesapeake/ Will 7 Fee
Project Number: 160025
Project Manager: Iain Olness

Fax: 505-394-2601

Reported:
10/31/05 11:19

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
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Batch EJ52509 - EPA 5030C (GC)

Matrix Spike Dup (EJ52509-MSD1)

Source: 5J25005-02

Prepared: 10/25/05 Analyzed: 10/26/05

Benzene	1.24	0.0250	mg/kg dry	1.34	ND	92.5	80-120	4.03	20	
Toluene	1.29	0.0250	"	1.34	0.0127	95.3	80-120	3.91	20	
Ethylbenzene	1.51	0.0250	"	1.34	0.0225	111	80-120	2.67	20	
Xylene (p/m)	2.91	0.0250	"	2.68	0.0609	106	80-120	0.939	20	
Xylene (o)	1.51	0.0250	"	1.34	0.0264	111	80-120	4.61	20	
Surrogate: <i>a,a</i> -Trifluorotoluene	33.6		ug/kg	40.0		84.0	80-120			
Surrogate: 4-Bromofluorobenzene	43.6		"	40.0		109	80-120			

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

Project: Chesapeake/ Will 7 Fee
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Fax: 505-394-2601

Reported:
10/31/05 11:19

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 EJ52603 - General Preparation (Prep)										
Blank (EJ52603-BLK1) Prepared: 10/25/05 Analyzed: 10/26/05										
% Solids	100		%							
Duplicate (EJ52603-DUP1) Source: 5J25001-01 Prepared: 10/25/05 Analyzed: 10/26/05										
% Solids	88.7		%		88.7			0.00	20	
Duplicate (EJ52603-DUP2) Source: 5J25006-08 Prepared: 10/25/05 Analyzed: 10/26/05										
% Solids	97.3		%		97.2			0.103	20	
Batch EJ52617 - Water Extraction										
Blank (EJ52617-BLK1) Prepared: 10/25/05 Analyzed: 10/26/05										
Chloride	ND	0.500	mg/kg							
LCS (EJ52617-BS1) Prepared: 10/25/05 Analyzed: 10/26/05										
Chloride	8.21		mg/L	10.0		82.1	80-120			
Calibration Check (EJ52617-CCV1) Prepared: 10/25/05 Analyzed: 10/26/05										
Chloride	8.37		mg/L	10.0		83.7	80-120			
Duplicate (EJ52617-DUP1) Source: 5J21002-03 Prepared: 10/25/05 Analyzed: 10/26/05										
Chloride	766	10.0	mg/kg		712			7.31	20	

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

Project: Chesapeake/ Will 7 Fee
Project Number: 160025
Project Manager: Iain Olness

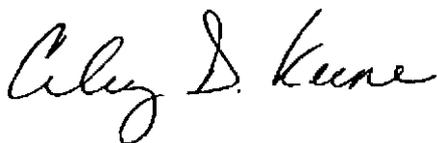
Fax: 505-394-2601

Reported:
10/31/05 11:19

Notes and Definitions

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

Report Approved By: _____



Date: 10/31/2005

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

Jeanne Mc Murrey, Inorg. Tech Director
James L. Hawkins, Chemist/Geologist
Sandra Sanchez, Lab Tech.

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

Environmental Plus, Inc.

2100 Avenue O, Eunice, NM 88231
 (505) 394-3481 FAX: (505) 394-2601
 P.O. Box 1558, Eunice, NM 88231

Chain of Custody Form

Company Name Environmental Plus, Inc. EPI Project Manager Iain Oliness Mailing Address P.O. BOX 1558 City, State, Zip Eunice New Mexico 88231 EPI Phone#/Fax# 505-394-3481 / 505-394-2601 Client Company Chesapeake Operating Facility Name Will 7 Fee Location UL-A, Sect. 7, T 23 S, R 28 E Project Reference 160025 EPI Sampler Name John Robinson		 <p>Attn: Iain Oliness PO Box 1558 Eunice, NM 88231</p>		ANALYSIS REQUEST TPH 8015M X X CHLORIDES (Cl) X X SULFATES (SO ₄) PH TCLP OTHER >>> PAH									
LAB I.D. 5325002	SAMPLE I.D.		MATRIX GROUND WATER WASTEWATER SOIL CRUDE OIL SLUDGE OTHER:			PRESERV. ICE/COOL ACID/BASE OTHER			SAMPLING DATE TIME		BTX 8021B X X		
	-01	BH-1 (10')	G	1					20-Oct-05	8:31	X	X	
	-02	BH-1 (15')	G	1					20-Oct-05	8:52	X	X	
	-03	BH-1 (20')	G	1					20-Oct-05	9:00	X	X	
	-04	BH-2 (10')	G	1					20-Oct-05	9:29	X	X	
	-05	BH-2 (15')	G	1					20-Oct-05	9:35	X	X	
	-06	BH-2 (20')	G	1					20-Oct-05	9:48	X	X	
	7												
	8												
	9												
10													
Sampler, Relinquished: [Signature]			Received By: [Signature]			Relinquished by: [Signature]			Remarks: 4oz glass plastic bags for Cl only samples				
Delivered by: [Signature]			Sample Cool & Intact No 054			Checked By: [Signature]			E-mail results to: iainess@envplus.net				

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

Client: FPI

Date/Time: 10/24/05 4:20

Order #: 5525002

Initials: CR

Sample Receipt Checklist

Temperature of container/cooler?	Yes	No	0.5 C
Shipping container/cooler in good condition?	Yes	No	
Custody Seals intact on shipping container/cooler?	Yes	No	Not present
Custody Seals intact on sample bottles?	Yes	No	Not present
Chain of custody present?	Yes	No	
Sample Instructions complete on Chain of Custody?	Yes	No	
Chain of Custody signed when relinquished and received?	Yes	No	
Chain of custody agrees with sample label(s)	Yes	No	
Container labels legible and intact?	Yes	No	
Sample Matrix and properties same as on chain of custody?	Yes	No	
Samples in proper container/bottle?	Yes	No	
Samples properly preserved?	Yes	No	
Sample bottles intact?	Yes	No	
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?	Yes	No	Not Applicable

Other observations:

Variance Documentation:

Contact Person: - _____ Date/Time: _____ Contacted by: _____
 Regarding: _____

Corrective Action Taken:



PHONE (915) 673-7001 • 2111 BEECHWOOD • ABILENE, TX 79603

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: 03/09/06
Reporting Date: 03/10/06
Project Owner: NOT GIVEN
Project Name: NOT GIVEN
Project Location: NOT GIVEN

Analysis Date: 03/09/06
Sampling Date: 03/08/06
Sample Type: SOIL
Sample Condition: COOL & INTACT
Sample Received By: NF
Analyzed By: AB

LAB NUMBER	SAMPLE ID	Cl ⁻ (mg/Kg)
H10878-1	SP-1	128
H10878-2	SP-2	1200
H10878-3	SP-3	400
H10878-4	SP-4	240
H10878-5	SP-5	1679
H10878-6	SP-6	928
H10878-7	SP-7	4639
H10878-8	SP-8	5198
Quality Control		510
True Value QC		500
% Recovery		102.0
Relative Percent Difference		2.0

METHOD: Standard Methods 4500-ClB

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

Iain Olness
Chemist

03-10-06
Date

H10878

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 AND ANALYSIS REQUEST

CARDINAL LABORATORIES, INC.
 2111 Beechwood, Abilene, TX 79603 101 East Marland, Hobbs, NM 88240
 (325) 673-7001 Fax (325) 673-7020 (505) 393-2326 Fax (505) 393-2476

Page of

Company Name: <u>EPT</u>		BILL TO		ANALYSIS REQUEST								
Project Manager: <u>Tain Olness</u>		P.O. #:										
Address:		Company:										
City:		Attn:										
Phone #:		Address:										
Project #:		City:										
Project Name:		State:		Zip:								
Project Location:		Phone #:										
Sampler Name:		Fax #:										
FOR LAB USE ONLY												
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX			PRESERV.			DATE	TIME	
				GROUNDWATER	WASTEWATER	SOIL	SLUDGE	OTHER:	ACID/BASE			ICE / COOL
H10879-1	SP-1	6	1	X				X			3/8/06	
-2	SP-2	6	1	X				X				
-3	SP-3	6	1	X				X				
-4	SP-4	6	1	X				X				
-5	SP-5	6	1	X				X				
-6	SP-6	6	1	X				X				
-7	SP-7	6	1	X				X				
-8	SP-8	6	1	X				X				
PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising from this contract or text shall be limited to the amount paid by the client for the services. All items including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable services. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruption, 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 performed by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.												
Sampler Refiniquished By: <u>Kent Jensen</u>		Date: <u>3/9/06</u>		Received By: <u>Michael L. Lull</u>								
Refiniquished By:		Time: <u>7:30</u>		Date:								
Time:		Date:		Time:								
Delivered By: (Circle One)		Sample Condition		Checked By:								
Sampler - UPS - Bus - Other:		Temp. °C		By: <u>MA</u>								
		Intact? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		(Initials)								
				Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No								
				Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No								
REMARKS:												

† Cardinal cannot accept verbal changes. Please fax written changes to (325) 673-7020.

APPENDIX III
SOIL BORING LOGS

Log Of Test Borings

(NOTE - Page 1 of 1)



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

Project Number: 160025

Project Name: Chesapeake Will 7A Fee #1

Location: UL-A, Section 7, Township 23 South, Range 28 East

Boring Number: BH-1

Surface Elevation: 3,041

Sample # and Time	Sample Type	Recovery (inches)	Moisture	PID Readings (ppm)	U.S.C.S. Symbol	Depth (feet)	Description
						5	
						8' Bottom of Excavation	
0831				2.9		10	Brown Sand Clay Rock Mix
						15	
0852			Moist	3.6		15	Tan Coarse Sand Pebbles
						17.0'	Groundwater encountered at 17.0'
0900				4.3		20	Brown Sand Clay Mix End of Boring at 20.0'
						25	
						30	

Water Level Measurements (feet)

Date	Time	Sample Depth	Casing Depth	Cave-In Depth	Water Level	Drilling Method: HSA 3.5' ID
10/20/05	-	-	-	-	-	Backfill Method: Bentonite
						Field Representative: JR

Log Of Test Borings

(NOTE - Page 1 of 1)



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

Project Number: 160025
Project Name: Chesapeake Will 7A Fee #1
Location: UL-A, Section 7, Township 23 South, Range 28 East
Boring Number: BH-2 Surface Elevation: 3,041

Sample # and Time	Sample Type	Recovery (Inches)	Moisture	PID Readings (ppm)	U.S.C.S. Symbol	Depth (feet)	Start Date: <u>10/20/05</u> Time: <u>0929 hrs</u> Completion Date: <u>10/20/05</u> Time: <u>0948 hrs</u>	Description
						5		
								8' Bottom of Excavation
0929				4.5		10		Coarse Sand Rock
						15		
0935				5.0				Red Brown Clay
						20		
0948				4.3				Sandy Brown Clay End of Boring at 20.0'
						25		
						30		

Water Level Measurements (feet)						Drilling Method: HSA 3.5' ID
Date	Time	Sample Depth	Casing Depth	Cave-in Depth	Water Level	
10/20/05	-	-	-	-	-	Backfill Method: Bentonite
-	-	-	-	-	-	Field Representative: JR

APPENDIX IV
NMOCD FORM C-103

Submit 3 Copies To Appropriate
 District Office
 District I
 1625 N. French Dr., Hobbs, NM 88240
 District II
 1301 W. Grand Ave., Artesia, NM 88210
 District III
 1000 Rio Brazos Rd., Aztec, NM 87410
 District IV
 1220 S. St. Francis Dr., Santa Fe, NM
 87505

State of New Mexico
 Energy, Minerals and Natural Resources

Form C-103
 May 27, 2004

OIL CONSERVATION DIVISION
 1220 South St. Francis Dr.
 Santa Fe, NM 87505

WELL API NO.: 30-015-32064
5. Indicate Type of Lease STATE <input type="checkbox"/> FEE <input checked="" type="checkbox"/>
6. State Oil & Gas Lease No.:
7. Lease Name or Unit Agreement Name: Will 7A Fee #1
8. Well Number: No. 1
9. OGRID Number:
10. Pool name or Wildcat

SUNDRY NOTICES AND REPORTS ON WELLS
 (DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A
 DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH
 PROPOSALS.)

1. Type of Well: Oil Well Gas Well Other

2. Name of Operator: Chesapeake Operating, Inc.

3. Address of Operator: 5014 Carlsbad Highway
 Hobbs, NM 88240

4. Well Location
 Unit Letter: A : feet from the line and feet from the line
 Section: 7 Township: 23 South Range 28 East NMPM County Eddy

11. Elevation (Show whether DR, RKB, RT, GR, etc.)
 3,041 feet above mean sea level

Pit or Below-grade Tank Application or Closure

Pit type: Drilling Depth to Groundwater: <50 feet Distance from nearest fresh water well: <1,000 feet Distance from nearest surface water: >1,000 feet

Pit Liner Thickness: 20 - mil Below-Grade Tank: Volume: bbls; Construction Material:

12. Check Appropriate Box to Indicate Nature of Notice, Report or Other Data

NOTICE OF INTENTION TO:

- PERFORM REMEDIAL WORK PLUG AND ABANDON
 TEMPORARILY ABANDON CHANGE PLANS
 PULL OR ALTER CASING MULTIPLE COMPL

OTHER:

SUBSEQUENT REPORT OF:

- REMEDIAL WORK ALTERING CASING
 COMMENCE DRILLING OPNS. P AND A
 CASING/CEMENT JOB

OTHER: Pit Closure

13. Describe proposed or completed operations. (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work). SEE RULE 1103. For Multiple Completions: Attach wellbore diagram of proposed completion or recompletion.

Chesapeake Operating, Inc. (Chesapeake) conducted the pit closure according to NMOCD guidelines. As the depth to groundwater is < 50 feet below ground surface (bgs), Chesapeake a) stiffened and excavated all drilling mud from pit area including the liner to at least six (6) inches below bottom of drill pit bottom; b) collected soil samples from excavation floor/sidewalls and submitted to an independent laboratory for quantification of TPH, BTEX constituents, chloride and sulfate concentrations; c) based on laboratory analyses, excavated additional soil as necessary; d) transported impacted soil to Controlled Recovery Inc. for disposal; e) installed polyethylene barrier below bottom of drill pit over area of elevated chloride concentrations to prevent vertical migration of contaminants; f) backfilled excavation with clean soil and graded/contoured to allow natural drainage; g) will seed the remediation area with a blend suitable to the landowner.

I hereby certify that the information above is true and complete to the best of my knowledge and belief. I further certify that any pit or below-grade tank has been/will be constructed or closed according to NMOCD guidelines , a general permit or an (attached) alternative OCD-approved plan .

SIGNATURE _____ TITLE Field Technician DATE _____

Type or print name: Bradley Blevins E-mail address: bblevins@chkenergy.com Telephone No.: (505) 391-1462 ext. 24

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APPROVED BY: _____ TITLE _____ DATE _____

Conditions of Approval (if any):