Chesapeake

CLOSURE PROPOSAL

WILL 7A FEE #1 DRILLING PIT

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"

NOVEMBER 2005

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PREPARED BY:

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

Standard of Care

Closure Report

Will 7A Fee #1
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 the 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 arrived at with currently accepted geologic, hydrogeologic and engineering practices at this time and location. The report was prepared or reviewed by a certified or registered EPI professional with a background in engineering, environmental, and/or the natural sciences.

This report was prepared by:

Jason Stegemoller, M.S.
Environmental Scientist

November 11, 2005
Date

This report was reviewed by:

Iain A. Olness, P.G.
Hydrogeologist

11 November 2005
Date

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Project Summary

Site Specific:

- **Company Name**: Chesapeake Operating, Inc.
- **Facility Name**: Will 7A Fee #1
- **Project Reference** 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, T23S, R28E
- **General Description**: approximately 9.0-miles southeast of Carlsbad, New Mexico
- **Elevation**: 3,041-ft amsl **Depth to Ground Water**: <50-ft
- **Land Ownership**: John Brantley
- **EPI Personnel**: Project Consultant – Iain Olness
  Site Foreman – Felix Hernandez

Release Specific:

- **Product Released**: Not Applicable - Drilling Pit Closure
- **Volume Released**: Not Applicable **Volume Recovered**: Not Applicable
- **Time of Occurrence**: **Time of Discovery**:
- **Release Source**:
- **Initial Surface Area Affected**: ≈22,800 square foot pit

Remediation Specific:

- **Final Vertical extent of contamination**: hydrocarbon contamination removed from pit; chloride residuals >400 mg/Kg exist to a depth of 20-ft bgs; groundwater encountered at 17-ft bgs; Remaining depth to ground water: <50-ft (i.e., 0-ft)
- **Water wells within 1,000-ft**: 4 **Surface water bodies within 1,000-ft**: 0
- **NMOCD Site Ranking Index**: 40 points (<50-ft to top of water table and <1,000-ft to 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) Remove all contents from pit and dispose of at CRI plus a minimum of six inches of soil from beneath the liner; b) laboratory analyses to confirm removal of soil impacted above NMOCD remedial thresholds and NMWQCC groundwater standards in sidewalls; c) installation of impermeable clay, PVC or equivalent liner; d) backfill excavation with clean soil
- **Disposal Facility**: Controlled Recovery, Inc.-Hobbs, New Mexico
- **Volume disposed of**: 3,900-yd^3
- **Project Completion Date**:
- **Additional Commentary**: None

1.0 Introduction & Background

On August 19, 2005, Chesapeake Operating, Inc. retained Environmental Plus, Inc. (EPI) to perform site delineation, remediation and closure of the Will 7A Fee #1 drilling pit. This site is located approximately 9.0 miles southeast of Carlsbad, Eddy County, New Mexico (reference *Figure 1*). EPI performed GPS surveying, photography and characterization of the site on August 19, 2005. Form C-103 was submitted to the New Mexico Oil Conservation Division (NMOCD) on August 31, 2005 documenting the site and proposed operations. The drilling pit entailed an area of approximately 22,800 square feet (ft^2) to a depth of 8-feet below ground surface (bgs) (reference *Figure 3*).

From September 29 to October 14, 2005, EPI personnel excavated and transported approximately 3,900 cubic yards (yd^3) of material from the drill pit to Controlled Recovery, Inc. (CRI) of Hobbs, New Mexico for disposal. On October 5, 2005 grab samples were collected from the south and west walls and the pit floor and analyzed in the field for the presence of organic vapors utilizing an MiniRae photoionization detector (PID) equipped with a 9.8 electron-volt (eV) lamp and chloride concentrations utilizing a LaMotte Chloride Test Kit. Field analyses indicated organic vapor concentrations ranged from 23.1 to 25.5 parts per million (ppm) and chloride concentrations ranged from 400 to 2,400 mg/Kg.

On October 12, 2005, grab type soil samples were collected from the pit floor. A portion of each sample was placed in a laboratory provided container and set on ice for transport to Cardinal Laboratories of Hobbs, New Mexico laboratory for quantification of benzene, toluene, ethylbenzene and total xylenes (BTEX constituents), total petroleum hydrocarbon (TPH) and chloride concentrations. The remaining portion of each sample was analyzed in the field for the presence of organic vapor utilizing a PID and chloride concentrations utilizing a LaMotte Chloride Test Kit. Field analytical results indicated organic vapor concentrations ranged from 0.0 to 10.5 parts per million (ppm) and chloride concentrations ranged form 480 to 13,640 mg/Kg.

On October 14, 2005, grab type soil samples were collected from the pit sidewalls. A portion of each sample was placed in a laboratory provided container and set on ice for transport to Cardinal Laboratories of Hobbs, New Mexico for quantification of chloride, TPH and BTEX constituent concentrations. The remaining portion of each sample was analyzed in the field for the presence of organic vapor utilizing a PID and chloride concentrations utilizing LaMotte Chloride Test Kit. Field analytical results indicated organic vapor concentrations ranged from 0.1 to 24.7 parts per million (ppm) and chloride concentrations ranged form 200 to 6,000 mg/Kg.

Laboratory analytical results for the soil samples collected on October 12 and 14 indicated all hydrocarbon contaminant concentrations were less than the NMOCD remedial thresholds. Reported chloride concentrations in the pit floor ranged from 512 to 15,900 mg/Kg.

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 of 10, 15 and 20-feet bgs. A portion of each sample, upon collection, was placed in a laboratory provided container and set on ice for transport to Environmental Lab of Texas. All soil samples were analyzed for chloride concentrations, additionally samples collected from BH-1 at 10-feet bgs and BH-2 at 10 and 20-feet bgs were analyzed for TPH and BTEX constituent concentrations.

Laboratory analytical results for the samples collected from soil borings BH-1 and BH-2 indicated hydrocarbon concentrations were non-detectable at or above laboratory method detection limits (MDL). Reported chloride concentrations ranged from 455 to 3,120 mg/Kg.

This release site is located in Unit Letter A, (NE¼ of the NE¼), Section 7, T23S, R28E, N32° 19' 30.76" and W104° 07' 16.97". The site is approximately 9-miles southeast of Carlsbad, New Mexico on property owned by Mr. John Brantley (reference *Figures 1 through 3*).

2.0 Site Description

2.1 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."

2.2 Ecological Description

The area is typical 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.

2.3 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 the 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. Groundwater gradient in this area is generally to the west-southwest.

2.4 Area Water Wells

There are four water supply wells (C 01448, C 01634, C 01699 and C 02141) located within a 1,000 foot radius of the release site.

2.5 Area Surface Water Features

There are no surface water bodies 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 that the chemical parameters of the soil and the 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);*** and
- ***Unlined Surface Impoundment Closure Guidelines (February 1993)***

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

- *Depth to Ground water (i.e., distance from the lower most acceptable concentration to the 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 40 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 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

Parameter	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 may be substituted for a laboratory analysis of the benzene and BTEX concentration limits.

4.0 Subsurface Soil Investigation

Excavation of pit contents commenced on September 29, 2005 and continued through October 14, 2005. Approximately 3,900 cubic yards of impacted drill pit materials was excavated and disposed of at Controlled Recovery, Inc. of Hobbs, New Mexico.

Soil samples were collected from the pit sidewalls and floor on October 12 and 14, 2005. A portion of each sample was placed in a laboratory provided container and submitted to an independent laboratory for analyses. The remaining portion was analyzed in the field for the presence of organic vapors utilizing a PID and chloride concentrations utilizing a La Motte Chloride Test Kit. Field analyses indicated that organic vapor concentrations ranged from 0.0 to 15.5 ppm and chloride concentrations ranged from 480 to 13,640 mg/Kg (reference *Figure 4*).

Laboratory analytical data for the samples collected from the pit sidewalls and floor indicated that TPH and BTEX constituent concentrations were non-detectable at or above laboratory method detection limits (MDL). Reported chloride concentrations in the pit sidewalls ranged from 96 to 4,000 mg/Kg. Chloride concentrations in the pit floor ranged from 512 to 15,900 mg/Kg (reference *Table 1*).

The vertical extent of contamination from the drill pit materials was determined via two soil borings (BH-1 and BH-2) to depths of 20-ft bgs on October 20, 2005. During the advancement of the soil borings, soil samples were collected at 10, 15 and 20-feet bgs. A portion of each sample was submitted for laboratory analyses. The remaining portion of each sample was anlyzed in the field for organic vapor and chloride concentrations. Field analyses indicated organic vapor concentrations ranged from 2.9 to 5.0 ppm and chloride concentrations ranged from 560 to 2,560 mg/Kg (reference *Figure 5*).

Laboratory analytical from the soil sample collected from soil borings BH-1 and BH-2 indicated TPH and BTEX constituent concentrations were non-detectable at or above laboratory MDL. Reported chloride concentrations for the soil samples collected from BH-1 at 10-feet bgs were

3,120 mg/Kg, at 15-feet bgs were 939 mg/Kg and at 20-feet bgs were 1,240 mg/Kg. Chloride concentrations for the soil samples collected from BH-2 at 10-feet bgs were 719 mg/Kg, at 15-feet bgs were 463 mg/Kg and at 20-feet bgs were 455 mg/Kg (reference *Table 1*).

5.0 Groundwater Investigation

The projected depth to groundwater at this site is <50-ft bgs. Groundwater was encountered at approximately 17-feet bgs during the advancement of soil boring BH-1. Soil impacted above the NMOCD remedial thresholds for TPH and BTEX constituents has been removed from the pit and disposed of at CRI of Hobbs, New Mexico.

Confirmatory laboratory analytical results for soil samples collected from the pit floor and sidewalls indicated that TPH and BTEX constituents were non-detectable at or above laboratory MDL. Laboratory analytical results for soil samples collected from the advancement of BH-1 and BH-2 to 20-feet bgs indicated TPH and BTEX constituents were non-detectable at or above laboratory MDL (reference *Table 1 and Appendix I*).

Laboratory analytical results for the soil samples collected from the pit sidewalls indicated chloride concentrations ranged from 96 to 4,000 mg/Kg and from the pit floor a range of 512 to 13,000 mg/Kg. Analytical data indicated chloride concentrations for soil boring BH-1 ranged from 939 to 3,120 mg/Kg and for soil boring BH-2 ranged from 455 to 719 mg/Kg (reference *Table 1 and Appendix I*).

6.0 Remediation Process

Excavation of the drilling pit contents commenced on September 29, 2005 and continued through October 14, 2005. Approximately 3,900 cubic yards of excavated drill pit materials were disposed of at Controlled Recovery Inc. Laboratory analytical data indicated that hydrocarbon concentrations in the pit sidewalls, floor and subsurface to 20-feet bgs were non-detectable at or above laboratory MDL.

7.0 Closure Proposal

This report documents successful treatment of hydrocarbon impacted soil above the NMOCD remedial thresholds discussed in Section 3 above and confirmed via laboratory analyses for this release site. The impacted soil was excavated and disposed of at CRI. Additional excavation will be performed to remove chloride residuals >250 mg/Kg from the pit sidewalls. To isolate chloride residuals remaining in the soil, Chesapeake proposes the installation of an impermeable liner of compacted clay, polyvinyl chloride or equivalent placed on the pit floor. If a poly liner is utilized, the liner shall be placed on a layer of cushion material (i.e., sand) and extend past original contamination limits by three feet, then another layer of cushion material will be placed upon the liner. Upon placement of liner, the excavation will be backfilled with clean soil, graded to allow natural drainage and seeded with a blend preferred by the landowner. Remediation activities will commence upon approval of this proposal. EPI will provide the NMOCD with at least 48 hours notice prior to any final soil sampling events.

FIGURES

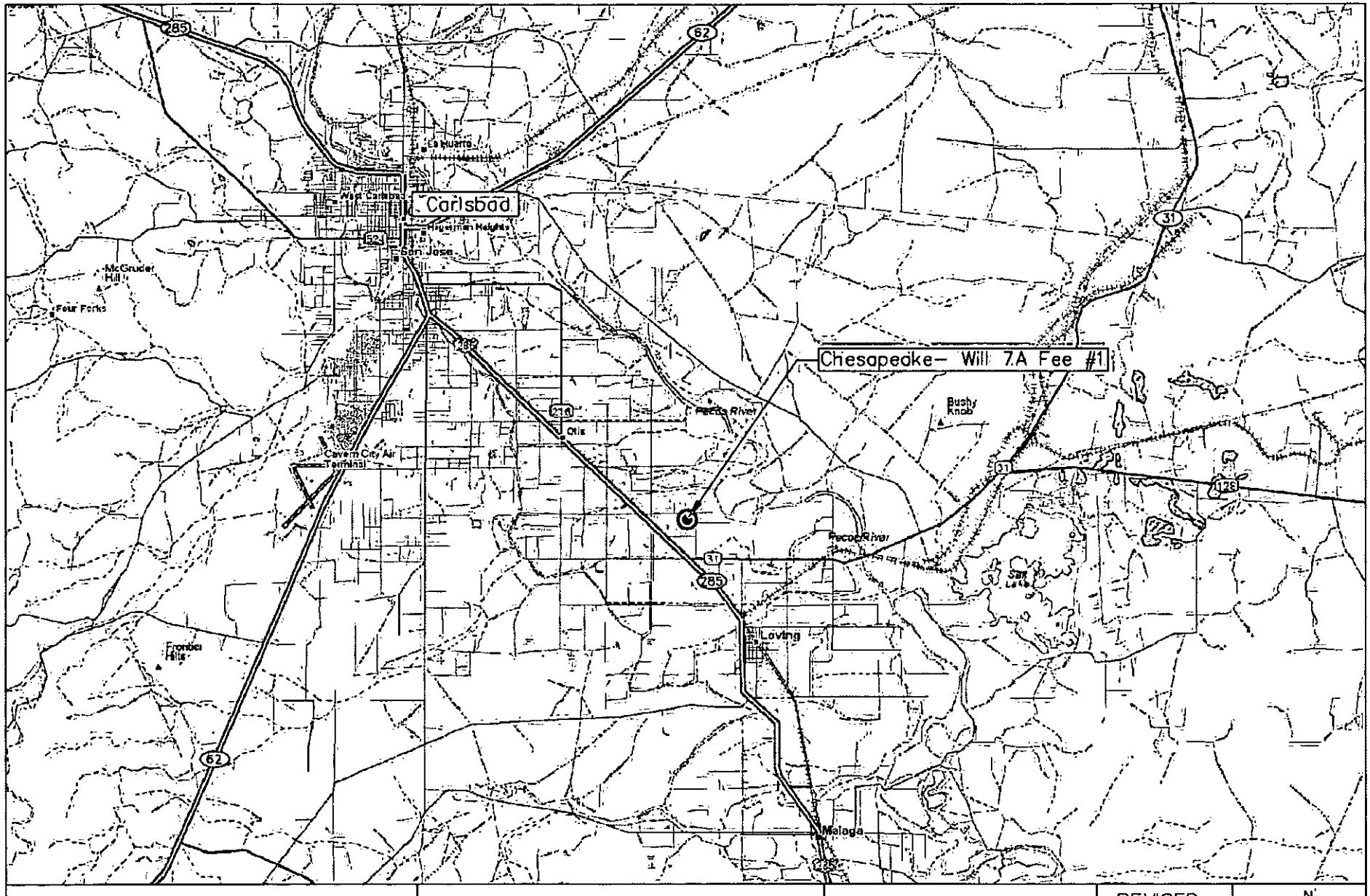

Figure 1 Area Map Chesapeake Will 7A Fee #1	Eddy County, New Mexico NE 1/4 of the NE 1/4, Sec. 7, T23S, R28E N 32° 19' 30.76" W 104° 07' 16.97" Elevation: 3,041 feet amsl	DWG By: Jason Stegemoller August 2005 0 3.0 6.0 Miles	REVISED: SHEET 1 of 1

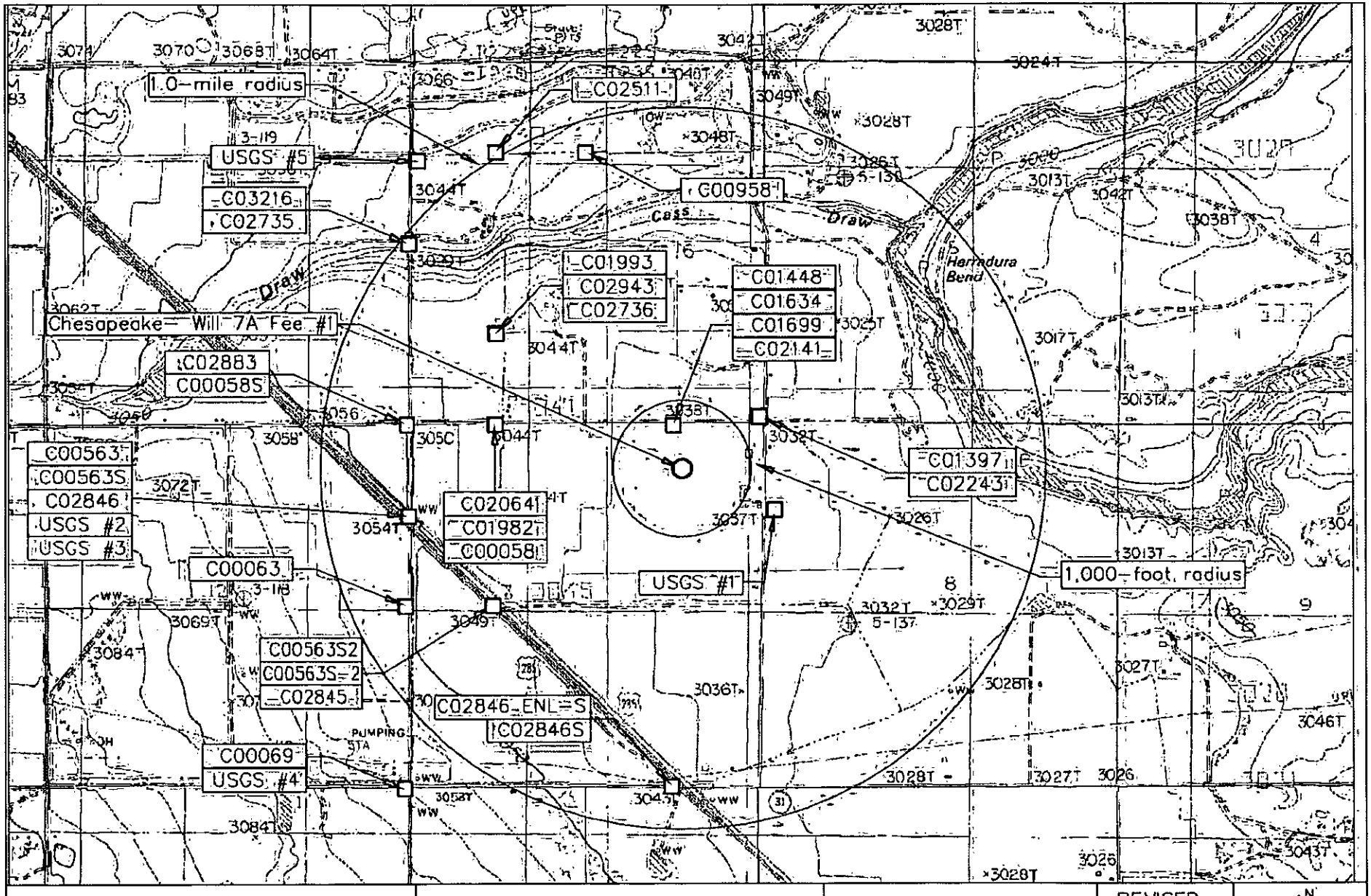

Figure 2
Site and Well Location Map
Chesapeake
Will 7A Fee #1

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:

0 2,000 4,000
Feet

SHEET
1 of 1

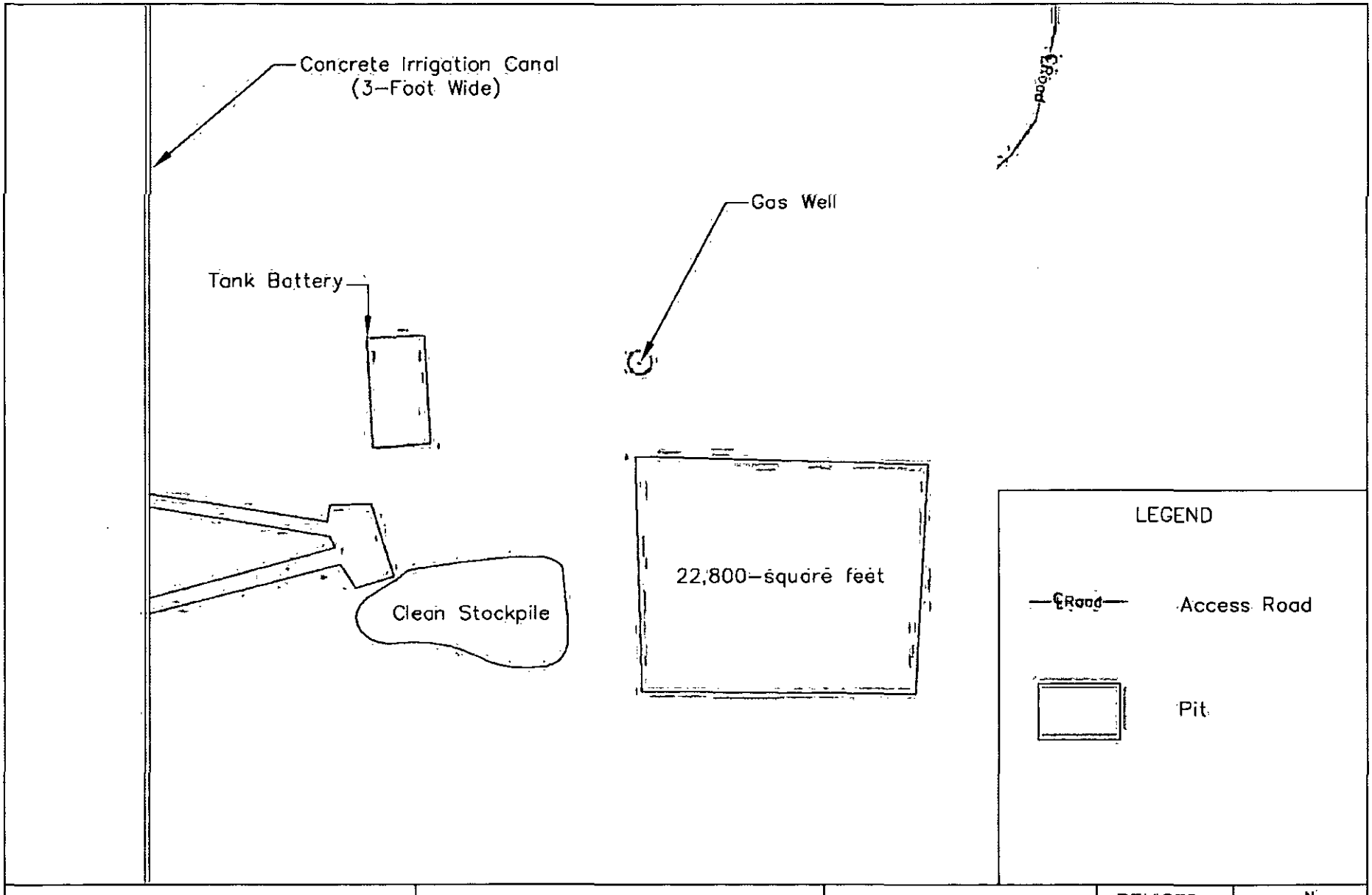

Figure 3 Site Map Chesapeake Will 7A Fee #1	Eddy County, New Mexico NE 1/4 of the NE 1/4, Sec. 7, T23S, R28E N 32° 19' 30.76" W 104°07' 16.97" Elevation: 3,041 feet amsl	DWG By: Jason Stegemoller August 2005 0 90 180 Feet	REVISED: SHEET 1 of 1

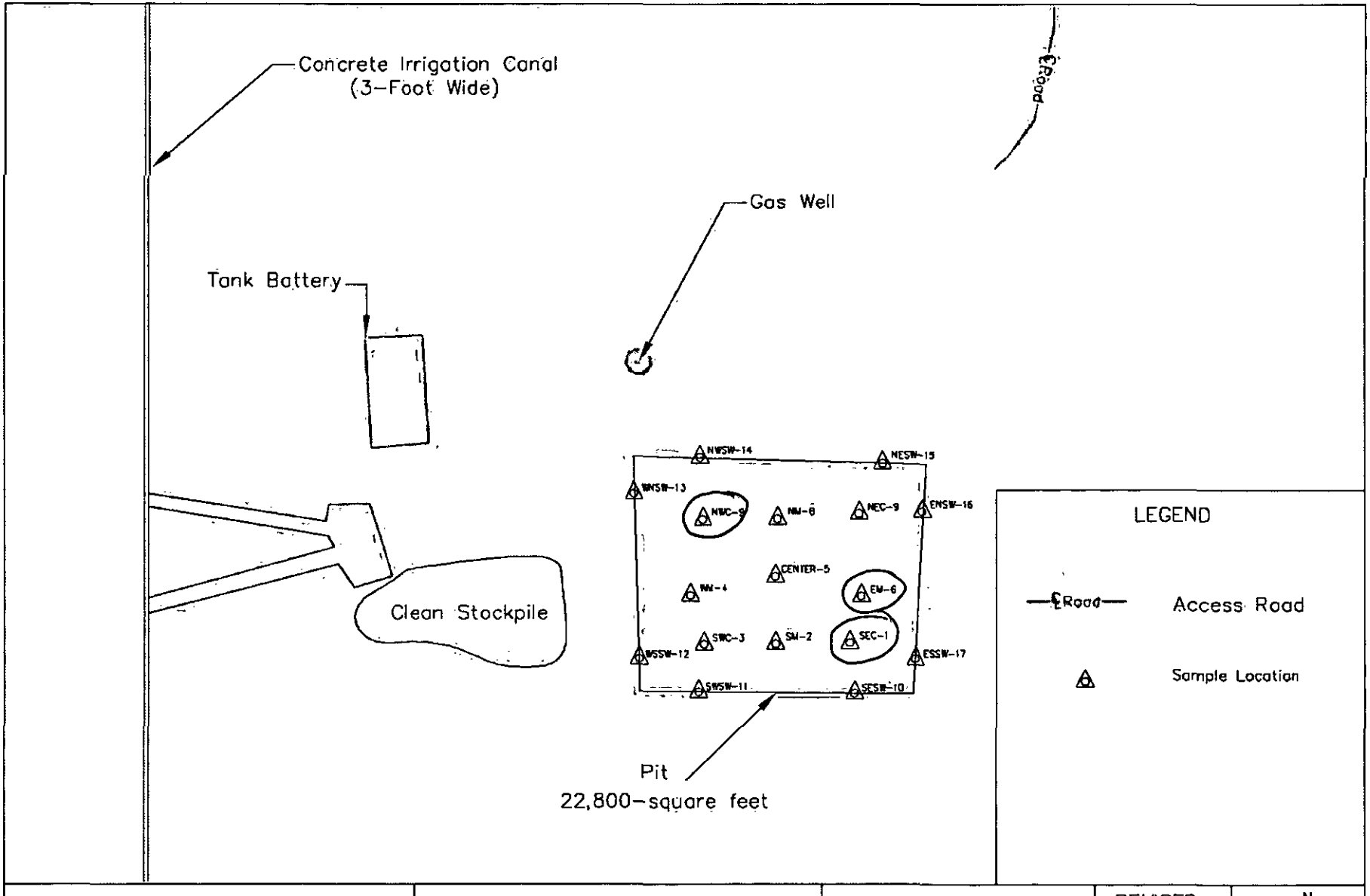

Figure 4 Sample Location Map Chesapeake Will 7A Fee #1	Eddy County, New Mexico NE 1/4 of the NE 1/4, Sec. 7, T23S, R28E N 32° 19' 30.76" W 104° 07' 16.97" Elevation: 3,041 feet amsl	DWG By: Jason Stegemoller August 2005	REVISED: Nov 2005	N
		0 90 180 Feet	SHEET 1 of 1	

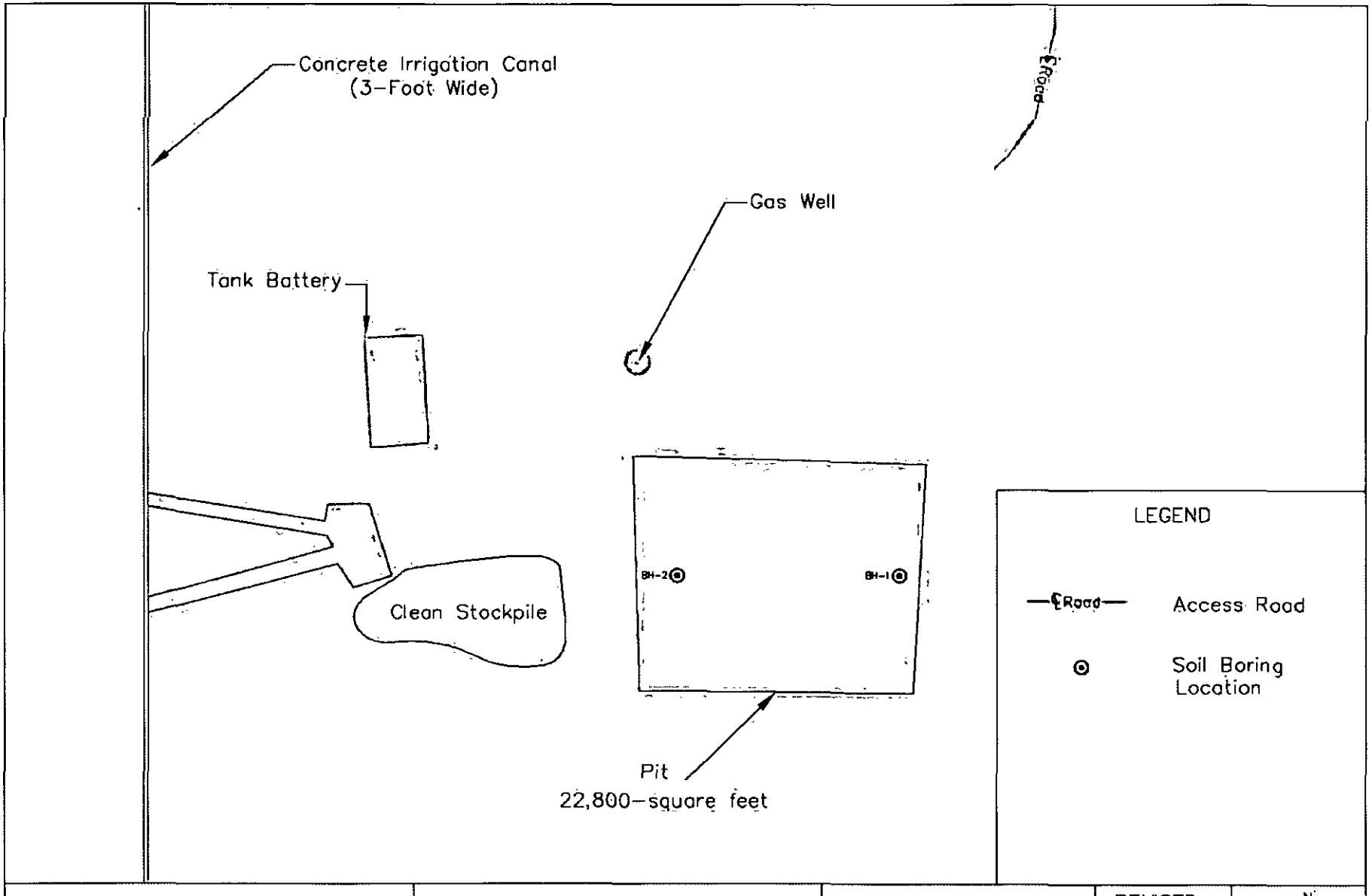

Figure 5 Soil Boring Location Map Chesapeake Will 7A Fee #1	Eddy County, New Mexico NE 1/4 of the NE 1/4, Sec. 7, T23S, R28E N 32° 19' 30.76" W 104° 07' 16.97" Elevation: 3,041 feet amsl	DWG By: Jason Stegemoller August 2005	REVISED: Nov 2005	N
		0 90 180 Feet	SHEET 1 of 1	

TABLES

TABLE 1

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)
Pit Sidewall	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
	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
Pit Floor	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
NMOCD Remedial Thresholds							**10**				**50**			**1,000**	**250** [2]

Bolded *values are in excess of NMOCD 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.*

TABLE 2

Summary of Soil Boring Soil Sample Laboratory Analytical Results

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

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)
BH-1	10	In Situ	2.9	2,560	20-Oct-05	<0.0250	<0.0250	<0.0250	<0.0750	<0.10	<10.0	<10.0	<10.0	3,120
	15	In Situ	3.6	1,280	20-Oct-05	<0.0250	<0.0250	<0.0250	<0.0750	<0.10	<10.0	<10.0	<10.0	939
	20	In Situ	4.3	1,040	20-Oct-05	<0.0250	<0.0250	<0.0250	<0.0750	<0.10	<10.0	<10.0	<10.0	1,240
BH-2	10	In Situ	4.5	880	20-Oct-05	<0.0250	<0.0250	<0.0250	<0.0750	<0.10	<10.0	<10.0	<10.0	719
	15	In Situ	5.0	560	20-Oct-05	<0.0250	<0.0250	<0.0250	<0.0750	<0.10	<10.0	<10.0	<10.0	463
	20	In Situ	4.3	800	20-Oct-05	<0.0250	<0.0250	<0.0250	<0.0750	<0.10	<10.0	<10.0	<10.0	455
NMOCD Remedial Thresholds						**10**				**50**			**1,000**	**250** [2]

EAST

Bolded *values are in excess of NMOCD 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.*

TABLE 3

Well Data

Chesapeake Energy Will 7A #1 (Ref. #160025)

Well Number	Diversion[A]	Owner	Use	Twsp	Rng	Sec q q q	Latitude	Longitude	Date Measured	Well Depth (ft bgs)	Depth to Water (ft bgs)
C 00563	45	Brantley Draper	IRR	23S	28E	07 1 1 3	32° 19' 24.11"	104° 08' 4.32"			
C 00563 S		Brantley Draper		23S	28E	07 1 1 3	32° 19' 24.11"	103° 08' 4.32"			
C 00563 S-2		Brantley 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	Miguela 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	Brantley Draper	IRR	23S	28E	07 1 1 3	32° 19' 24.11"	103° 08' 4.32"			
C 00563 S		Brantley Draper		23S	28E	07 1 1 3	32° 19' 24.11"	103° 08' 4.32"			
C 00563	15	Brantley Draper		23S	28E	07 1 1 3	32° 19' 24.11"	103° 08' 4.32"			
C 00563 S		Brantley Draper		23S	28E	07 1 1 3	32° 19' 24.11"	103° 08' 4.32"			
C 00563 S-2		Brantley Draper		23S	28E	07 1 4 3	32° 19' 11"	103° 07' 49.37"			
C 00563 S2		Brantley Draper		23S	28E	07 1 4 3	32° 19' 11"	103° 07' 49.37"			
C 02845	0	Brantley Bros.	EXP	23S	28E	07 1 4 3	32° 19' 11"	103° 07' 49.37"		220	
C 02846	57	Brantley Bros.	COM	23S	28E	07 1 1 4	32° 19' 24.11"	103° 08' 4.32"	31-Dec-38	60	50
C 02846 ENL-S		Brantley Bros.		23S	28E	07 4 4 4	32° 18' 44.81"	103° 07' 18.72"			
C 02846 S		Brantley Bros.		23S	28E	07 4 4 4	32° 18' 44.81"	103° 07' 18.72"	18-Apr-03	150	40
C 00058	392.1	Farm Credit of New Mexico	IRR	23S	28E	06 3 4 3	32° 19' 37.33"	103° 07' 49.14"	06-May-48	185	20
C 00058 S		Farm Credit of New Mexico		23S	28E	06 3 3 3	32° 19' 37.29"	103° 08' 4.17"	13-Mar-02	202	60
C 00058	186.3	Joe N. Carrasco	IRR	23S	28E	06 3 4 3	32° 19' 37.33"	103° 07' 49.14"	06-May-48	185	20
C 00958	3	Jerry F. Ballard	DOM	23S	28E	06 2 1 2	32° 20' 16.9"	104° 07' 33.42"	09-Aug-61		
C 01397	0	Gomez Ramon	IRR	23S	28E	06 4 4					
C 01448	0	Gomez Ramon	IRR	23S	28E	06 4 4	32° 19' 37.45"	104° 07' 18.35"			
C 01634	3	Grady O. Dodson	DOM	23S	28E	06 4 2	32° 19' 50.62"	103° 07' 18.21"	03-Feb-76	185	85
C 01699	3	Tom McIlvain	DOM	23S	28E	06 4 2	32° 19' 50.62"	103° 07' 18.21"	15-Jul-77	90	65
C 01982	0	Justin Magby	DOM	23S	28E	06 3 4	32° 19' 37.33"	103° 07' 49.14"			
C 01993	3	Read & Stevens	PRO	23S	28E	06 3 2	32° 19' 50.51"	103° 07' 49.01"	27-Nov-81	164	45
C 02064	3	Justin Magby	DOM	23S	28E	06 3 4	32° 19' 37.33"	103° 07' 49.14"	25-Sep-83	90	45
C 02141	3	Edgar Magby	DOM	23S	28E	06 4 4	32° 19' 37.45"	104° 07' 18.35"	09-May-88	65	36
C 02243	3	Edgar Magby	DOM	23S	28E	06 4 4 4			29-Nov-92	160	40
C 02511	3	Hernandez Daniel	DOM	23S	28E	06 1 2 1	32° 20' 16.86"	103° 07' 48.76"	03-Mar-97	60	35
C 02735	3	Julius Roberson	DOM	23S	28E	06 1 2 4	32° 20' 3.65"	103° 08' 3.88"			
C 02736	3	Julius Roberson	STK	23S	28E	06 3 2 4	32° 19' 50.51"	103° 07' 49.01"			
C 00058 S	0	Julius Roberson	EXP	23S	28E	06 3 3 3	32° 19' 37.29"	103° 08' 4.17"	13-Mar-02	202	60
C 02883		Julius Roberson Jr.		23S	28E	06 3 3 1	32° 19' 37.29"	103° 08' 4.17"	13-Mar-02	202	58
C 02883	3	Julius Roberson	STK	23S	28E	06 3 3 1	32° 19' 37.29"	103° 08' 4.17"	13-Mar-02	202	
C 02943	3	William J. and Diana Redfearn	DOM	23S	28E	06 1 1 2	32° 19' 50.51"	103° 07' 49.01"	25-Jan-03	69	43
C 02736	0	Nadel & Gussan Permian LLC	PRO	23S	28E	06 3 2 4	32° 19' 50.51"	103° 07' 49.01"			
C 02736	0	Chesapeake Operating	PRO	23S	28E	06 3 2 4	32° 19' 50.51"	103° 07' 49.01"			
C 03216	3	Judy Parker	DOM	23S	28E	06 1 3 4	32° 20' 3.65"	103° 08' 3.88"			
USGS #1				23S	28E	07 1 1 3	32° 19' 25"	103° 07' 01"	27-Jan-03	195	39.79
USGS #2				23S	28E	07 1 1 3			03-Jan-78		58.14
USGS #3				23S	28E	07 1 1 3			24-Jan-96		25.3
USGS #4				23S	28E	07 3 3 3			12-Aug-48		45.1
USGS #5				23S	28E	06 1 3 1			10-Jan-75		25.79

* = Data obtained from the New Mexico Office of the State Engineer Website (http://iwaters.ose.state.nm.us:7001/iWATERS/wr_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

APPENDIX I

LABORATORY ANALYTICAL REPORTS
AND
CHAIN-OF-CUSTODY FORM

CARDINAL 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 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)	Cl* (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; Cl^-: Std. Methods 4500-Cl^-B
*Analyses performed on 1:4 w:v aqueous extracts.

Chemist

10/20/05
Date

H10310A.XLS

CARDINAL 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

Chemist

10/20/05
Date

H10310B.XLS

Environmental Plus, Inc.

Chain of Custody Form

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

Company Name	Environmental Plus, Inc.
EPI Project Manager	Iain Olness
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	Felix Hernandez

Bill To

Attn: Iain Olness
PO Box 1558
Eunice, NM 88231

LAB I.D.		SAMPLE I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX: GROUND WATER	WASTEWATER	SOIL	CRUDE OIL	SLUDGE	OTHER:	PRESERV.: ACID/BASE	ICE/COOL	OTHER	SAMPLING: DATE	TIME	ANALYSIS REQUEST: BTEX 8021B	TPH 8015M	CHLORIDES (Cl^-)	SULFATES ($SO_4^{=}$)	pH	TCLP	OTHER >>	PAH
H10310-1	1	SEC-1 (8')	G	1			1							12-Oct-05	14:00	X	X	X					
-2	2	SM-2 (8')	G	1			1							12-Oct-05	14:05	X	X	X					
-3	3	SWC-3 (8')	G	1			1							12-Oct-05	14:10	X	X	X					
-4	4	EM-4 (8') CM-6(8')	G	1			1							12-Oct-05	14:15	X	X	X					
-5	5	Center-5 (8')	G	1			1							12-Oct-05	14:20	X	X	X					
-6	6	WM-6 (8') WM4(8') BC	G	1			1							12-Oct-05	14:25	X	X	X					
-7	7	NWC-7 (8') NWC-5(8') BC	G	1			1							12-Oct-05	14:30	X	X	X					
-8	8	NM-8 (8')	G	1			1							12-Oct-05	14:35	X	X	X					
-9	9	NEC-9 (8') NEC-9(8') BC	G	1			1							12-Oct-05	14:40	X	X	X					
	10																						

Sampler Relinquished:	Date / Time	Received By:	E-mail results to: iolness@envplus.net
Relinquished by: John Robinson	Date 10-17-05 / Time 10:55	Received By: (lab staff) Burgandy Cook	REMARKS:
Delivered by:	Sample Cool & Intact: (Yes) No	Checked By:	

CARDINAL 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 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

CARDINAL 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: 10/14/05
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

Chemist

10/20/05
Date

Environmental Plus, Inc.

Chain of Custody Form

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

Company Name	Environmental Plus, Inc.
EPI Project Manager	Iain Olness
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	Felix Hernandez

Bill To:

Attn: Iain Olness
PO Box 1558
Eunice, NM 88231

ANALYSIS REQUEST

LAB I.D.		SAMPLE I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX: GROUND WATER	WASTEWATER	SOIL	CRUDE OIL	SLUDGE	OTHER:	PRESERV.: ACID/BASE	ICE/COOL	OTHER	SAMPLING: DATE	TIME	BTEX 8021B	TPH 8015M	CHLORIDES (Cl)	SULFATES (SO_4^{-2})	pH	TCLP	OTHER >>>	PAH			
H10311-1	1	SESW-10 (4')	G	1			1							14-Oct-05	11:45	X	X	X								
-2	2	SWSW-11 (4')	G	1			1							14-Oct-05	11:55	X	X	X								
-3	3	WSSW-12 (4')	G	1			1							14-Oct-05	12:00	X	X	X								
-4	4	WNSW-13 (4')	G	1			1							14-Oct-05	12:18	X	X	X								
-5	5	NWSW-14 (4')	G	1			1							14-Oct-05	12:25	X	X	X								
-6	6	NESW-15 (4')	G	1			1							14-Oct-05	11:40	X	X	X								
-7	7	ENSW-16 (4')	G	1			1							14-Oct-05	12:55	X	X	X								
-8	8	ESSW-17 (4')	G	1			1							14-Oct-05	12:46	X	X	X								
	9																								
	10																								

Sampler Relinquished:	Date / Time	Received By:	E-mail results to: iolness@envplus.net
Relinquished by: John Galvan	Date 10-17-05 / Time 10:55	Received By: (lab staff) Burgess J. Cook	REMARKS:
Delivered by:	Sample Cool & Intact: Yes / No	Checked By:	

ENVIRONMENTAL LAB OF

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 Fee

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	Project: Chesapeake/ Will 7 Fee	Fax: 505-394-2601
P.O. Box 1558	Project Number: 160025	**Reported:**
Eunice NM, 88231	Project Manager: Iain Olness	10/31/05 11:19

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
BH-1 (10')	5J25002-01	Soil	10/20/05 08:31	10/24/05 16:20
BH-1 (15')	5J25002-02	Soil	10/20/05 08:52	10/24/05 16:20
BH-1 (20')	5J25002-03	Soil	10/20/05 09:00	10/24/05 16:20
BH-2 (10')	5J25002-04	Soil	10/20/05 09:29	10/24/05 16:20
BH-2 (15')	5J25002-05	Soil	10/20/05 09:35	10/24/05 16:20
BH-1 (20')	5J25002-06	Soil	10/20/05 09:48	10/24/05 16:20

12600 West I-20 East - Odessa, Texas 79705 - (432) 563-1800 - Fax (432) 563-1713

Environmental Plus, Incorporated	Project: Chesapeake/ Will 7 Fee	Fax: 505-394-2601
P.O. Box 1558	Project Number: 160025	**Reported:**
Eunice NM, 88231	Project Manager: Iain Olness	10/31/05 11:19

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	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*85.0 %*	*80-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*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	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		*86.8 %*	*70-130*		"	"	"	"	
Surrogate: 1-Chlorooctadecane		*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	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*105 %*	*80-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*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	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		*84.4 %*	*70-130*		"	"	"	"	
Surrogate: 1-Chlorooctadecane		*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	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*98.8 %*	*80-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*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	"	"	"	"	"	"	

12600 West I-20 East - Odessa, Texas 79705 - (432) 563-1800 - Fax (432) 563-1713

Environmental Plus, Incorporated	Project: Chesapeake/ Will 7 Fee	Fax: 505-394-2601
P.O. Box 1558	Project Number: 160025	**Reported:**
Eunice NM, 88231	Project Manager: Iain Olness	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*		*"*	*"*	*"*	*"*	

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Environmental Plus, Incorporated	Project: Chesapeake/ Will 7 Fee	Fax: 505-394-2601
P.O. Box 1558	Project Number: 160025	**Reported:**
Eunice NM, 88231	Project Manager: Iain Olness	10/31/05 11:19

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	

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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 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*			

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 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: a,a,a-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: a,a,a-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: a,a,a-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: a,a,a-Trifluorotoluene	*35.3*		*ug/kg*	*40.0*		*88.2*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*42.2*		"	*40.0*		*106*	*80-120*			

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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 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: a,a,a-Trifluorotoluene	*33.6*		*ug/kg*	*40.0*		*84.0*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*43.6*		"	*40.0*		*109*	*80-120*			

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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 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	

12600 West I-20 East - Odessa, Texas 79705 - (432) 563-1800 - Fax (432) 563-1713

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: Celey D. Keene 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.

Environmental Plus, Inc.

Chain of Custody Form

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

Company Name	Environmental Plus, Inc.
EPI Project Manager	Iain Olness
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

Bill To

Attn: Iain Olness
PO Box 1558
Eunice, NM 88231

ANALYSIS REQUEST

LAB I.D.	SAMPLE I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX: GROUND WATER	WASTEWATER	SOIL	CRUDE OIL	SLUDGE	OTHER:	PRESERV.: ACID/BASE	ICE/COOL	OTHER	SAMPLING: DATE	TIME	BTEX 8021B	TPH 8015M	CHLORIDES (Cl)	SULFATES ($SO_4^{=}$)	pH	TCLP	OTHER >>>	PAH			
5 J-25002																									
-01	BH-1 (10')	G	1			1							20-Oct-05	8:31	X	X	X								
-02	BH-1 (15')	G	1			1							20-Oct-05	8:52			X								
-03	BH-1 (20')	G	1			1							20-Oct-05	9:00			X								
-04	BH-2 (10')	G	1			1							20-Oct-05	9:29	X	X	X								
-05	BH-2 (15')	G	1			1							20-Oct-05	9:35	X	X	X								
-06	BH-2 (20')	G	1			1							20-Oct-05	9:48			X								
7																									
8																									
9																									
10																									

Sampler Relinquished: John Robinson — Date: 10-24-05 Time: 01:30 — Received By: Jesse Mills

Relinquished by: Jesse Mills — Date: 10/24/05 Time: 2:20 — Received By: (lab staff) Connie Kelly

Delivered by:

Sample Cool & Intact: Yes / No 05c — Checked By:

E-mail results to: iolness@envplus.net

REMARKS:
4oz glass
plastic bags for Cl only samples

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

Client: EPI

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

Order #: 5J25002

Initials: CK

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:

_____

_____

_____

_____

_____

_____

_____

_____

APPENDIX II

PROJECT PHOTOGRAPHS

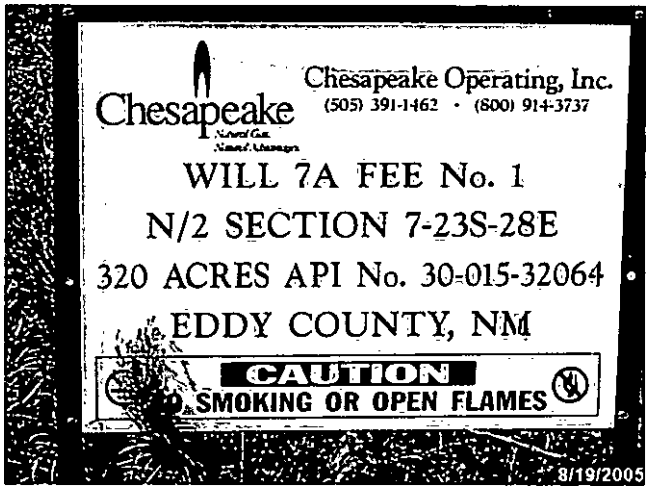

Photo #1: Sign denoting lease specifications.

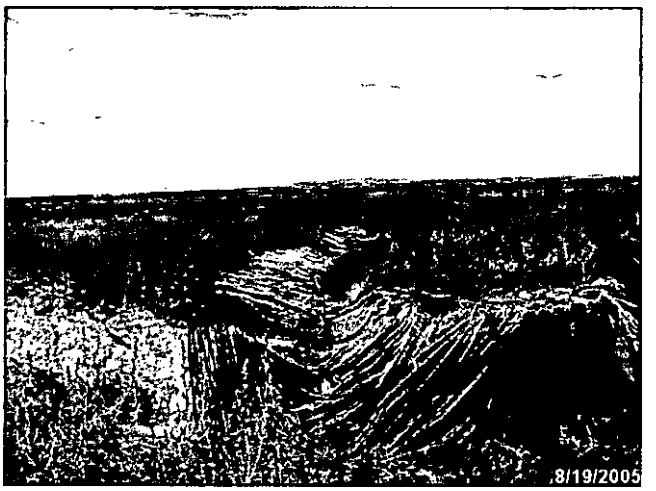

Photo #2: Looking westerly at pit area and liner.

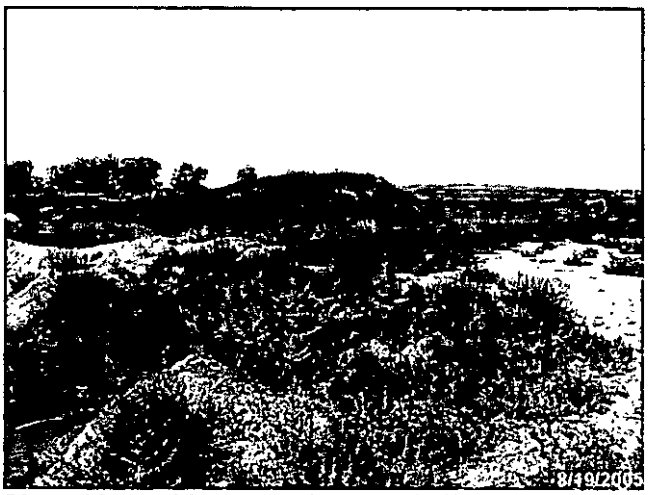

Photo #3: Looking westerly at stockpile.

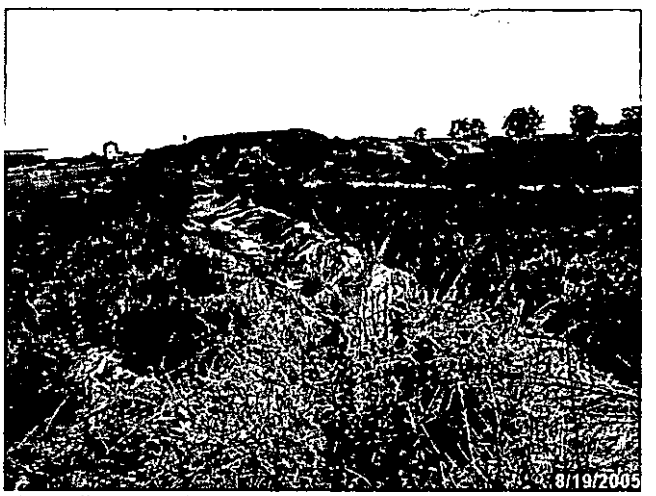

Photo #4: Looking easterly towards clean stockpile.

Photo #5: Current status of pit looking southerly.

Photo #6: Current status of pit looking southwesterly.

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

Start Date: 10/20/05 Time: 0831 hrs
Completion Date: 10/20/05 Time: 0900 hrs

Sample # and Time	Sample Type	Recovery (inches)	Moisture	PID Readings (ppm)	U.S.C.S. Symbol	Depth (feet)	Description
						5	
						10	
0831				2.9			Brown Sand Clay Rock Mix
						15	
0852			Moist	3.6			Tan Coarse Sand Pebbles
							Groundwater encountered at 17.0'
						20	
0900				4.3			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
10/20/05	-	-	-	-	-
-	-	-	-	-	-

Drilling Method: HSA 3.5" ID
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

Start Date: 10/20/05 Time: 0929 hrs
Completion Date: 10/20/05 Time: 0948 hrs

Sample # and Time	Sample Type	Recovery (inches)	Moisture	PID Readings (ppm)	U.S.C.S. Symbol	Depth (feet)	Description
						5	
						10	
0929				4.5			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)

Date	Time	Sample Depth	Casing Depth	Cave-in Depth	Water Level
10/20/05	-	-	-	-	-
-	-	-	-	-	-

Drilling Method: HSA 3.5' ID
Backfill Method: Bentonite
Field Representative: JR

APPENDIX IV

INFORMATIONAL COPY OF THE NMOCD C-103 FORM

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

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

Form C-103
May 27, 2004

WELL API NO.: 30-015-32064

5. Indicate Type of Lease STATE ☐ FEE ☒

6. State Oil & Gas Lease No.:

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.)

7. Lease Name or Unit Agreement Name: Will 7A Fee #1

1. Type of Well: Oil Well ☐ Gas Well ☒ Other ____

8. Well Number: No. 1

2. Name of Operator: Chesapeake Operating, Inc.

9. OGRID Number:

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

10. Pool name or Wildcat

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:		SUBSEQUENT REPORT OF:	
PERFORM REMEDIAL WORK ☐	PLUG AND ABANDON ☑	REMEDIAL WORK ☐	ALTERING CASING ☐
TEMPORARILY ABANDON ☐	CHANGE PLANS ☐	COMMENCE DRILLING OPNS. ☐	P AND A ☐
PULL OR ALTER CASING ☐	MULTIPLE COMPL ☐	CASING/CEMENT JOB ☐	
OTHER: ____ ☐		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) is conducting the pit closure according to NMOCD guidelines. As the depth to groundwater is < 50 feet below ground surface (bgs), Chesapeake is removing all contents from the pit and disposing of them at CRI. In addition, a minimum of six (6) inches of soil from beneath the liner will also be excavated. Upon the removal of all the pit contents, including the liner, soil samples will be collected from the floor of the excavation and submitted for quantification of total petroleum hydrocarbons (TPH), benzene, toluene, ethylbenzene, and total xylenes (BTEX constituents) and chloride. Should analytical results indicate that the integrity of the liner has been compromised, a Delineation/Remediation Plan will be developed and submitted to the NMOCD for approval. Should analytical results indicate that the structural integrity of the liner was not compromised, the pit will be backfilled with clean soil obtained from an off-site source, the site contoured and graded to allow for natural drainage and the site seeded with a blend of seed preferred by the property owner.

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):