

8 November, 2007

Mr. Chris Williams District I Supervisor New Mexico Oil Conservation Division - Hobbs 1625 North French Drive Hobbs, New Mexico 88240

RE: **Remediation Closure Report** Chesapeake Operating, Inc. JK Rector Tank Battery UL-A (NE ¹/₄ of the NE ¹/₄), Section 31, T 21 S, R 36 E Latitude: 32° 26' 26.51"; Longitude: 103° 18' 00.42" NMOCD 1RP#1586; EPI Ref. #160282

Dear Mr. Williams:

Environmental Plus, Inc., (EPI) on behalf of Mr. Bradley Blevins, Chesapeake Operating, Inc., submits the attached Remediation Closure Report for the above referenced active Tank Battery located on land owned by the Dasco Cattle Company, L.L.C.

Activities were initiated to bring the impacted area into conformance with NMOCD requirements. For clarity and cross reference elimination purposes, the following Letter Remediation Closure Report offers Site Background history, Site Delineation, Remediation Activities and Conclusion.

Site Background

The Site is located in UL-A (NE ¹/₄ of the NE ¹/₄) of Section 31, T21S, R36E at an elevation of approximately 3,629 feet above mean sea level (amsl). The property is owned by the Dasco Cattle Company, L.L.C. A search for water wells was completed utilizing the New Mexico Office of the State Engineers website and a database maintained by the United States Geological Survey (USGS). No domestic water wells or surface water exist within a 1,000 feet radius of the Site (reference Figure 2). Groundwater data indicates average water depth is approximately 211 feet below ground surface (bgs). Utilizing this information, the New Mexico Oil Conservation Division (NMOCD) Remedial Goals for this site were determined as follows:

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

* Chloride residuals may not be capable of impacting local Groundwater above NMWQCC of 250 mg/L

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EUNICE, NEW MEXICO 88231

A. Site Delineation – Upon discovery of the release, Chesapeake Operating, Inc. contacted EPI for an emergency response team. The emergency response team worked on the release area continuous from September 19, 2007 to September 29, 2007. Standing liquid was solidified and impacted material loaded on plastic barriers. On September 26, 2007 soil samples were collected from the excavation area south of the tank battery perimeter at depths ranging from 1- to 2-ft bgs (reference *Figure 4*).

On September 28, 2007 soil samples were collected from the excavation within the confines of the tank battery perimeter at depths ranging from 1- to 2-ft bgs (reference *Figure 4*). BTEX and TPH constituent concentrations were reported below NMOCD remedial threshold goals of 50mg/Kg and 5,000 mg/Kg, respectively in all sampling events. Similarly, chloride concentrations were reported below remedial goal of 250 mg/Kg for all sampling events (reference *Table 2*).

- B. Remedial Activities From September 20, 2007 through September 29, 2007, approximately 1,050 yds³ of impacted soil were excavated from a surface area of 6,500-ft² at depths ranging from 1- to 2-ft bgs. Impacted soil was transported to EPI Landfarm for treatment. Laboratory analysis confirmed removal of impacted soils above NMOCD remedial goals in sidewalls and bottom of excavations. From October 18, 2007 through October 22, 2007, the excavations were backfilled with a combination of caliche (~578 yds³) and topsoil (~324 yds³) purchased from a pit located on the Dasco Cattle Company property. The disturbed areas were contoured to allow natural drainage.
- C. **Conclusion** Based on information presented within this report, Environmental Plus, Inc., on behalf of Chesapeake Operating, Inc., request the NMOCD require no further action at this site and issue Chesapeake Operating, Inc. a *Site Closure Letter*.

Please address questions, concerns and/or needs for additional technical information to David P. Duncan at (575) 394-3481 or via e-mail at <u>dduncan@envplus.net</u>. Official correspondence should be addressed to Mr. Bradley Blevins at (575) 391-1462, ext. 6224 (Office), (575) 441-0341 (Mobile) or via e-mail at <u>bblevins@chkenergy.com</u>.

Sincerely,

Brandon Farrar Environmental Consultant

Cc: Bradley Blevins, Chesapeake Operating, Inc. - Hobbs, NM Harlan Brown, Chesapeake Energy – Oklahoma City, OK Dasco Cattle Company, L.L.C. c/o Atley Snyder, Tatum, NM File Encl: Figure 1 – Area Map

Figure 2 – Site Location Map

Figure 3 – Site Map

Figure 4 – Excavation and Sample Map

Table 1 – Well Data

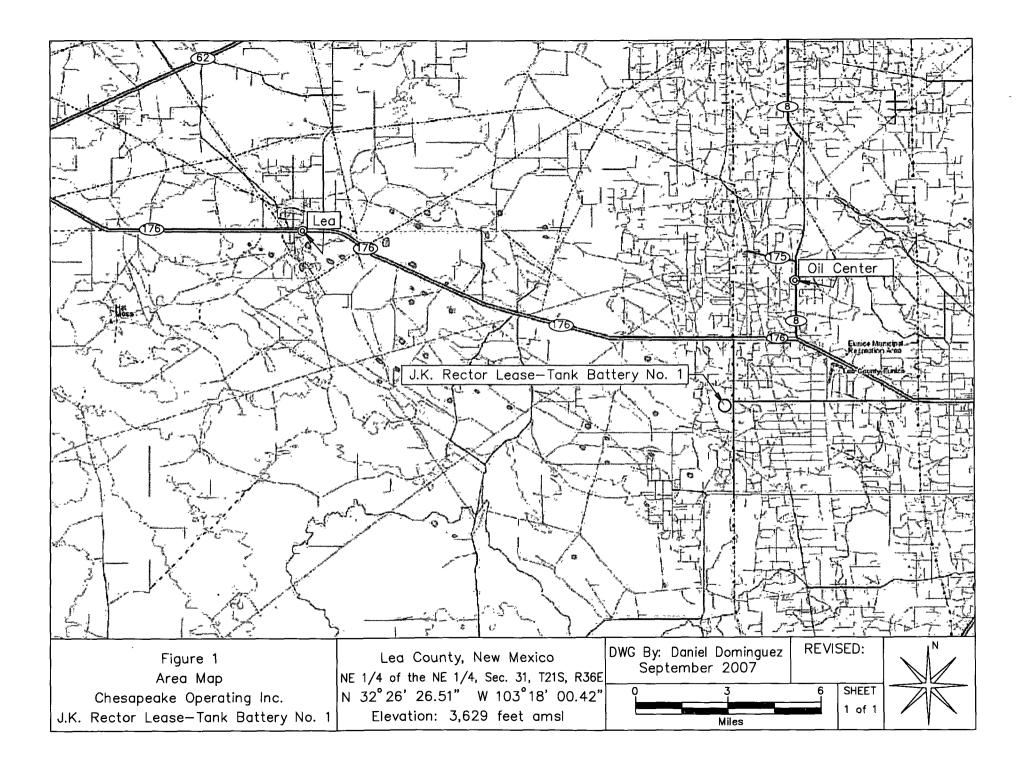
Table 2 – Summary of Excavation Soil Sample Field Analyses and Laboratory Analytical Results

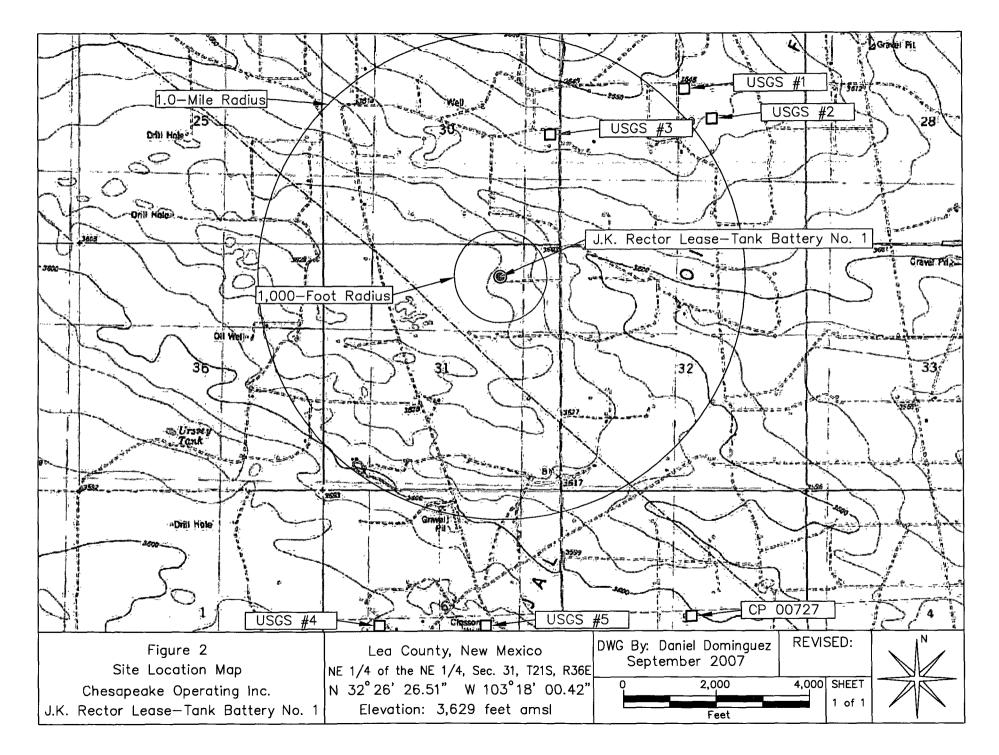
Attachment I – Site Photographs

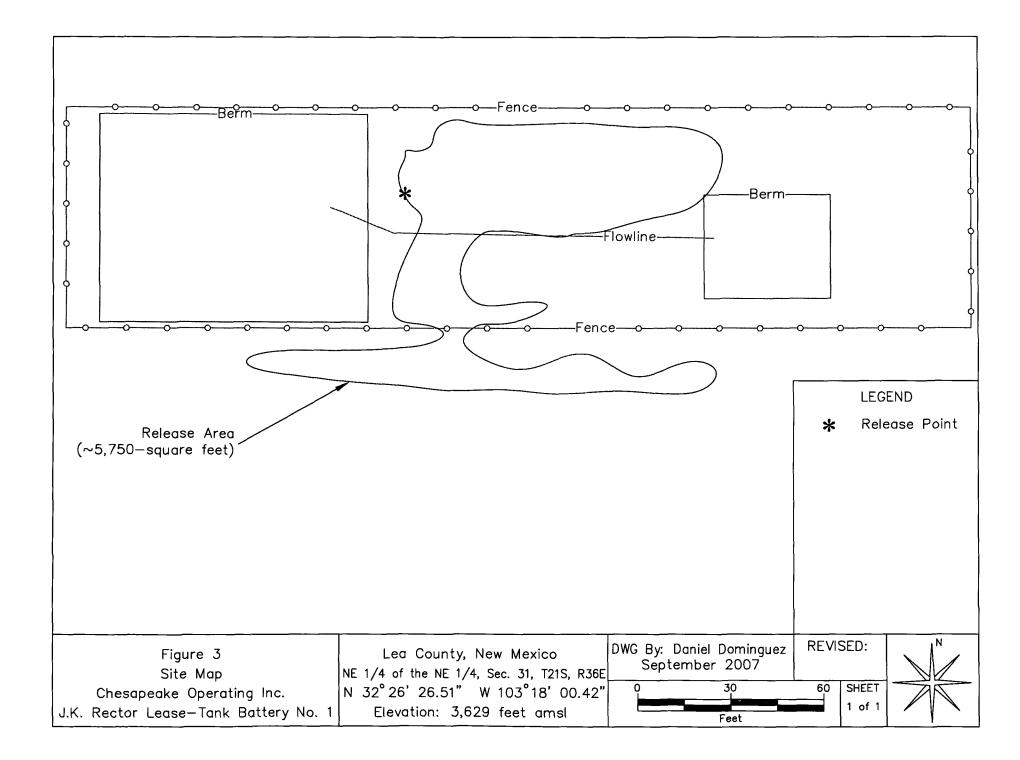
Attachment II – Laboratory Analytical Results and Chain-of-Custody Forms

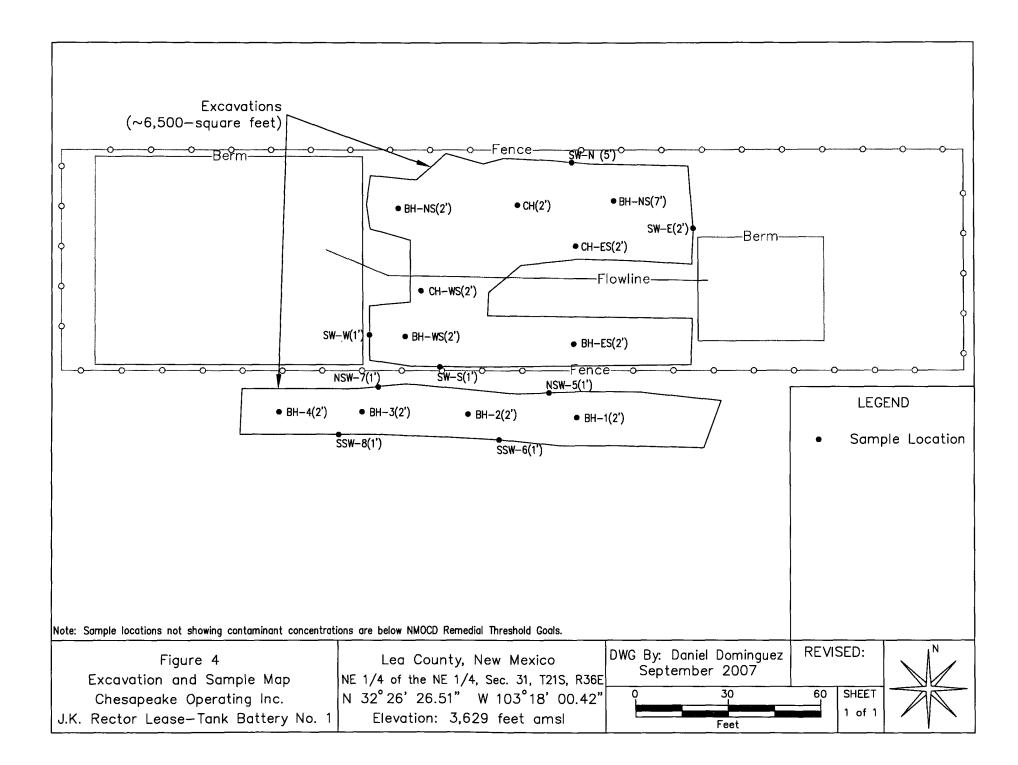
Attachment III – Information and Metrics

Copy of Initial NMOCD Form C-141 Final NMOCD Form C-141 **FIGURES**









TABLES

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TABLE 1

Well Data

Chesapeake Operating Inc. - J.K. Rector Lease-Tank Battery No. 1 (Ref. # 160282)

Well Number	Diversion ^A	Owner	Use	Twsp	Rng	Sec q q q	Latitude	Longitude	Date Measured	Surface Elevation ^B	Depth to Water (ft bgs)
CP 00727	3	DASCO LAND CORPORATION	STK	22S	36Ē	05 231	N32° 25' 14.38"	W103° 17' 12.71"	19-May-88	3,600	212
USGS #1				215	36E	29 2 3 1			06-Apr-91	3,645	246.87
USGS #2				215	36E	29 2 3 4			08-Sep-70	3,640	240.89
USGS #3				21S	36E	30 422			13-Feb-96	3,635	230.69
USGS #4				22S	36E	06 321			14-Feb-96	3,589	179.53
USGS #5				22S	36 <u>E</u>	06 412			01-May-91	3,585	171.04
CP:00469# 380	前 34学	RWALTINISME	STK	∲22S⊀	106E	06/03 21	N32º 25/1.55	W103° 18' 29.60''.	07-Feb-69	3,575	195

* = Data obtained from the New Mexico Office of the State Engineer Website (http://iwaters.ose.state.nm.us:7001/iWATERS/wr_RegisServlet1) and USGS Database

 $^{\Lambda}$ = In acre feet per annum

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

STK = Livestock watering

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

Shaded area indicates wells not shown in Figure 2

TABLE 2

Summary of Excavation Soil Sample Field Analyses and Laboratory Analytical Results

Chesapeake Operating, Inc.

J.K. Rector Lease - Tank Battery No. 1 (NMOCD Ref.1RP#1586;EP1 Ref. #160282)

Sample ID	Depth (feet)	Soil Status	Sample Date	PID Reading (ppm)	Field Chloride (mg/Kg)	Benzene (mg/Kg)	Toluene (mg/Kg)	Ethylbenzene (mg/Kg)	Total Xylenes (mg/Kg)	Total BTEX (mg/Kg)	Carbon Ranges C6-C10 (mg/Kg)	Carbon Ranges >C10-C28 (mg/Kg)	TPH (mg/Kg)	Chloride (mg/Kg)
BH-1 (F)		In sıtu	25-Sep-07	01										
BH-2 (F)		In sıtu	25-Sep-07	0										
BH-3 (F)		In situ	25-Sep-07	0.2										
BH-4 (F)		In sıtu	25-Sep-07	0.8										
BH-5 (F)		In sıtu	25-Sep-07	0.5										
BH-6 (F)		In sıtu	25-Sep-07	0 8										
BH-1	2	In situ	26-Sep-07	0.0	380									<16
BH-2	2	In sıtu	26-Sep-07	0.0	340									<16
BH-3	2	In sıtu	26-Sep-07	40	400									<16
BH-4	2	In situ	26-Sep-07	2.3	380									<16
NSW-5	1	In sıtu	26-Sep-07	0.0	240									<16
SSW-6	1	In sıtu	26-Sep-07	0.0	320									<16
NSW-7	1	In sıtu	26-Sep-07	0.0	380									<16
SSW-8	1	In sıtu	26-Sep-07	0.0	380				• -			~ -		<16

TABLE 2

Summary of Excavation Soil Sample Field Analyses and Laboratory Analytical Results

Chesapeake Operating, Inc.

J.K. Rector Lease - Tank Battery No. 1 (NMOCD Ref.1RP#1586;EPI Ref. #160282)

Sample ID	Depth (feet)	Soil Status	Sample Date	PID Reading (ppm)	Field Chloride (mg/Kg)	Benzene (mg/Kg)	Toluene (mg/Kg)	Ethylbenzene (mg/Kg)	Total Xylenes (mg/Kg)	Total BTEX (mg/Kg)	Carbon Ranges C6-C10 (mg/Kg)	Carbon Ranges >C10-C28 (mg/Kg)	TPH (mg/Kg)	Chloride (mg/Kg)
BH-ES	2	In situ	28-Sep-07		300	<0.001	<0 001	<0.001	<0.003	<0.006	<10.0	<10 0	<20.0	32
BH-WS	2	In sıtu	28-Sep-07		280	<0 025	0 098	<0.025	<0.075	0 0980	<10.0	164 0	164	<16
CH-WS	2	In sıtu	28-Sep-07		400	<0 001	<0.001	<0.003	<0 003	<0.006	<10.0	<10 0	<20 0	<16
BH-NS	2	In situ	28-Sep-07		320	<0.025	0.069	<0.025	<0.075	0 069	<10.0	41	41	<16
CH-ES	2	In sıtu	28-Sep-07		280	<0 001	<0 001	<0.001	<0 003	<0 006	<10.0	<10 0	<20 0	<16
СН	2	In sıtu	28-Sep-07	÷-	260	<0.001	<0.001	<0.001	< 0.003	<0.006	<10 0	<10.0	<20 0	<16
BH-NS	7	In situ	28-Sep-07		320	<0.001	<0.001	<0 001	<0.003	<0.006	<10.0	<10.0	<20.0	<16
SW-N	5	In situ	28-Sep-07		320	<0 001	<0 001	<0.001	<0 003	<0.006	<10 0	<10.0	<20 0	<16
SW-S	1	In sıtu	28-Sep-07		380	<0 001	<0 001	<0.001	<0 003	<0.006	<10 0	<10 0	<20.0	<16
SW-E	2	In situ	28-Sep-07		300	<0 001	<0.001	<0.001	<0.003	<0 006	<10.0	<10 0	<20.0	<16
SW-W	1	ln situ	28-Sep-07		380	<0.001	<0 001	<0.001	<0 003	<0 006	<10.0	<10.0	<20.0	<16
NMOCD	Remedial	Threshold G	oals	100		10				50			5,000	250

--= Not Analyzed

Bold values are in excess of NMOCD Remediation Threshold Goals

BG = Background Soil Boring

F = Field Analyses (Inside Tank Battery Perimeter)

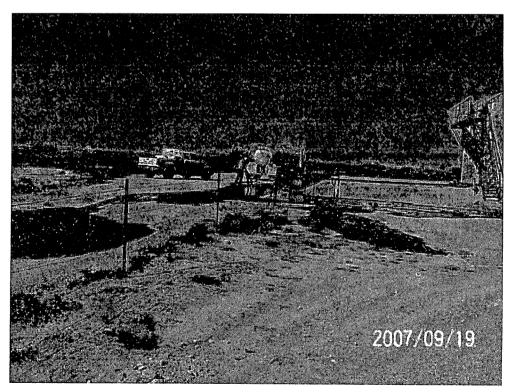
BH = Bottom Hole, SW = Sidewall (E = East, W = West, N = Nortrh, S = South)

ATTACHMENT I

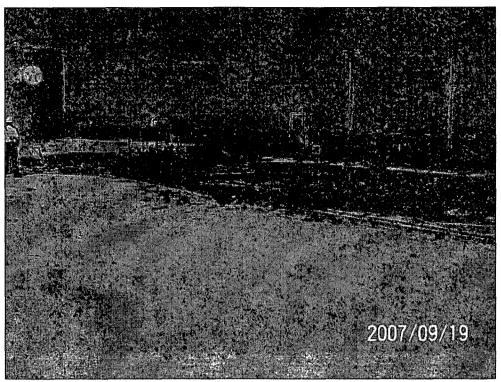
PHOTOGRAPHS



Photograph No. 1 – Lease Sign.

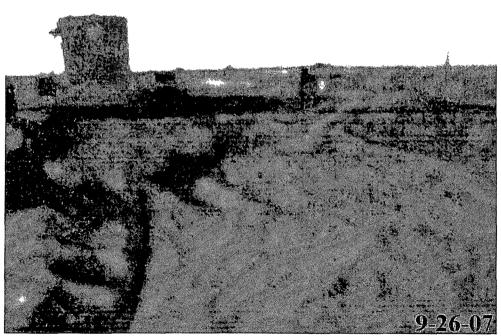


Photograph No. 2 – Looking westerly across release area.

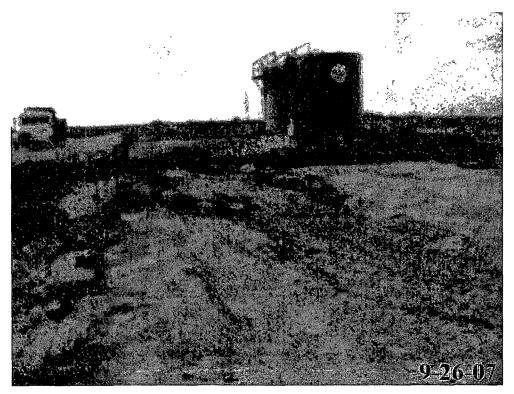


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Photograph No. 3 – Looking northwesterly across release area.



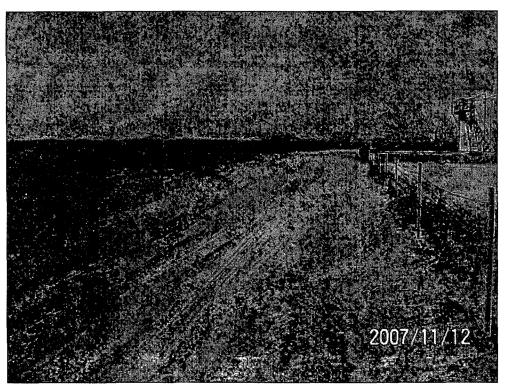
Photograph No. 4 – Looking westerly across excavation area.



Photograph No. 5 – Looking northwesterly across excavation area.

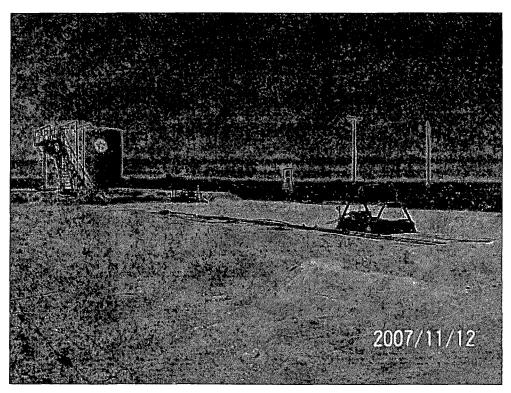


Photograph No. 6 – Looking easterly across excavation area.



Photograph No. 7 – Looking westerly across remediated site.

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Photograph No. 8 - Looking westerly across remediated site.

ATTACHMENT II

LABORATORY ANALYTICAL RESULTS

CHAIN-OF-CUSTODY FORM



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

ANALYTICAL RESULTS FOR ENVIRONMENTAL PLUS, INC. ATTN: DAVID P. DUNCAN P.O. BOX 1558 **EUNICE, NM 88231** FAX TO: (505) 394-2601

Receiving Date: 09/26/07 Reporting Date: 09/27/07 Project Owner: CHESAPEAKE OPERATING (160282) Project Name: J.K. RECTOR TANK BATTERY Project Location: UL-A, SECT. 31, T 21 S, R 36 E

Analysis Date: 09/27/07 Sampling Date: 09/26/07 Sample Type: SOIL Sample Condition: INTACT Sample Received By: CK Analyzed By: HM

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		C
LAB NUMBER	SAMPLE ID	(mg/Kg)
H13387-1	BH-1 (2')	< 16
H13387-2	BH-2 (2')	< 16
H13387-3	BH-3 (2')	< 16
H13387-4	BH-4 (2')	< 16
H13387-5	NSW-1 (1')	< 16
H13387-6	SSW-1 (1')	< 16
H13387-7	NSW-2 (1')	< 16
H13387-8	SSW-2 (1')	< 16
Quality Control		500
True Value QC	and any Provide survey and for the state of the state	500
% Recovery		100
Relative Percent	Difference	< 0.1

METHOD: Standard Methods 4500-CI-B Note: Analyses performed on 1:4 w:v aqueous extracts.

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27-07

H13387 EPI

PLEASE NOTE: Liability and Damages Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicative 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.

Page 2 of 2

Environmental Plus, Inc.

Chain of Custody Form

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

P.O. Box 1558, Eunice, NM 88231

Company Name Environmental Plus, Inc. Bill To ANALYSIS REQUEST EPI Project Manager David P. Duncan 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** J.K. Rector Tank Battery UL-A, Sect. 31, T 21 S, R 36 E Location Attn: David P. Duncan 160282 **Project Reference** PO Box 1558 **EPI Sampler Name** Sebastian Romero Eunice, NM 88231 MATRIX PRESERV. SAMPLING (G)RAB OR (C)OMP. GROUND WATER SULFATES (SO4^{*}) CHLORIDES (CI) # CONTAINERS WASTEWATER LAB I.D. SAMPLE I.D. **BTEX 8021B** OTHER >>> CRUDE OIL ACID/BASE **TPH 8015M** ICE/COOL SLUDGE OTHER: OTHER TCLP SOIL PAH Hq DATE TIME BH-1 (2') G Х 413380 1 26-Sep-07 12:50 1 413387 G 1 2 BH-2 (2') 1 26-Sep-07 12:59 Х G Х 3 BH-3 (2') 1 26-Sep-07 1 13:05 G 1 BH-4 (222/71) Х 1 26-Sep-07 13:15 G 5 NSW-1 (1') 1 1 26-Sep-07 Х 14:15 G 6 SSW-1 (1') 1 Х 1 26-Sep-07 14:19 G 7 NSW-2 (1') 1 1 26-Sep-07 14:25 Х G 1 X 8 SSW-2 (2) 26-Sep-07 14:31 1 10 Sampler Relinquished: Date Scot 26- 67 Received By: E-mail results to: dduncan@envplus.net REMARKS 4:15P 14/07 Received By, (lab staff Relinguished by: E) I'me linl Checked By: Delivered by Sample Cool & Intact 0 Tes



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

ANALYTICAL RESULTS FOR ENVIRONMENTAL PLUS, INC. ATTN: DAVID P. DUNCAN P.O. BOX 1558 EUNICE, NM 88231 FAX TO: (505) 394-2601

Receiving Date: 09/28/07 Reporting Date: 10/01/07 Project Owner: CHESAPEAKE ENERGY (160282) Project Name: J.K. RECTOR TANK BATTERY Project Location: UL-A, SECT. 31, T 21 S, R 36 E Sampling Date: 09/28/07 Sample Type: SOIL Sample Condition: COOL & INTACT Sample Received By: SB Analyzed By: CK

ETHYL

TOTAL

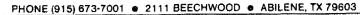
					10 IAL
		BENZENE	TOLUENE	BENZENE	XYLENES
LAB NUMBER SAME	PLEID	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)
ANALYSIS DATE		09/28/07	09/28/07	09/28/07	09/28/07
H13405-1 BH-E	S (2')	<0.001	<0.001	<0.001	<0.003
H13405-2 BH-W	/S (2')	<0.025	0.098	<0.025	<0.075
H13405-3 CH-W	/S (2')	<0.001	<0.001	<0.001	<0.003
H13405-4 BH-N	S (2')	<0.025	0.069	<0.025	<0.075
H13405-5 CH-E	(2')	<0.001	<0.001	<0.001	<0.003
H13405-6 CH (2	")	<0.001	<0.001	<0.001	< 0.003
H13405-7 BH-N	S (7')	<0.001	<0.001	< 0.001	<0.003
H13405-8 SW-N	l (5')	<0.001	<0.001	< 0.001	< 0.003
H13405-9 SW-S	5 (1')	<0.001	<0.001	< 0.001	<0.003
H13405-10 SW-E	(2')	<0.001	<0.001	<0.001	< 0.003
H13405-11 SW-V	V (1')	<0.001	<0.001	<0.001	< 0.003
Quality Control		0.107	0.104	0.104	0.318
True Value QC		0.100	0.100	0.100	0.300
% Recovery		107	104	104	106
Relative Percent Different	ence	12.1	17.7	16.7	13.4

METHOD: EPA SW-846 8021B

Chemist

H13405B EPI

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



ARDINAL LABORATORIES

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ANALYTICAL RESULTS FOR ENVIRONMENTAL PLUS, INC. ATTN: DAVID P. DUNCAN P.O. BOX 1558 EUNICE, NM 88231 FAX TO: (505) 394-2601

Receiving Date: 09/28/07 Reporting Date: 09/30/07 Project Owner: CHESAPEAKE OPERATING (160282) Project Name: J.K. RECTOR TANK BATTERY Project Location: UL-A, SECT. 31, T 21 S, R 36 E Sampling Date: 09/28/07 Sample Type: SOIL Sample Condition: COOL & INTACT Sample Received By: SB 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	09/29/07	09/29/07	09/29/07
H13405-1 BH-ES (2')	<10.0	<10.0	32
H13405-2 BH-WS (2')	<10.0	164	<16
H13405-3 CH-WS (2')	<10.0	<10.0	<16
H13405-4 BH-NS (2')	<10.0	41	<16
H13405-5 CH-E (2')	<10.0	<10.0	<16
H13405-6 CH (2')	<10.0	<10.0	<16
H13405-7 BH-NS (7')	<10.0	<10.0	<16
H13405-8 SW-N (5')	<10.0	<10.0	<16
H13405-9 SW-S (1')	<10,0	<10.0	<16
H13405-10 SW-E (2')	<10.0	<10.0	<16
H13405-11 SW-W (1')	<10.0	<10.0	<16
Quality Control	813	811	490
True Value QC	800	800	500
% Recovery	102	101	98.0
Relative Percent Difference	0.2	2.3	<0.1

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

P.Cool

H13405A EPI

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

Environmental Plus, Inc.

Chain of Custody Form

2100 Avenue O, Eunice, NM 88231

P.O. Box 1558, Eunice, NM 88231

	-			
(505) 394-3481	1	FAX:	(505)	394-2601

(505) 394-3481	FAX: (505) 394-2601		_																						
Company Name	Environm	ental Plus	, Inc).						1	E A	, E	<u>HI</u> D	lo,			- <u>1</u>	A	NAI	<u>YS</u>	IS F	EQ	UE S	万	
EPI Project Man		Duncan									£		Ĉ.>>	`~			Γ								
Mailing Address	P.O. BOX	1558	_]				_#*** 		L.	N.S.			Į								
City, State, Zip		ew Mexico	882	231						1	REAL PROPERTY	E	• 1												
EPI Phone#/Fax		481 / 505-3	394-	260	1]			1	- 1796364	C. ST	1 C	- V.											
Client Company	Chesapea	ke Operatin	g]				وم و مر	94000Z	Ľ.,	a de la calega de la											
Facility Name	J.K. Rect	or Tank Ba	tter	у]																		
Location	UL-A, Sec	ct. 31, T 21	S, F	36	Ε]			A	ttn:	Dav	vid f	P. Duncan											
Project Referen	ce 160282										F	o I	Box	1558											
EPI Sampler Na	me Sebastiar	n Romero]				Eu	nice	e, NI	M 88231				1			'				
			(G)RAB OR (C)OMP.				MA	TRIX	(PR	ESE	RV.	SAMPLI	NG]									
LAB I.D.	60				GROUND WATER	WASTEWATER	SOIL	CRUDE OIL	SLUDGE	OTHER:	ACID/BASE	ICE/COOL	OTHER	DATE	ТІМЕ	BTEX 8021B	TPH 8015M	CHLORIDES (CI)	SULFATES (SO4 [¬])	Hd	TCLP	OTHER >>>	РАН		
H13405- 1	BH-ES (2')		G	1			1							28-Sep-07	9:45	X	X	X		\Box					T
2	2 BH-WS (2')		G	1			1				Γ			28-Sep-07	9:55	X	X	X							
3	CH-WS (2')		G	1			1							28-Sep-07	10:00	X	X	X							
4	BH-NS (2')		G	1			1							28-Sep-07	10:10	X	X	X							
Ę	6 CH-E (2')		G	1			1							28-Sep-07	10:20	X	X	X							
(CH (2')		G	1			1							28-Sep-07	10:30	X	X	X							
5	7 BH-NS (7')		G	1			1							28-Sep-07	10:34	X	X	X							
٤	3 SW-N (5')		G	1			1							28-Sep-07	11:00	X	X	X							
	SW-S (1')		G	1			1							28-Sep-07	11:15	Х	X	X							
1(SW-E (2')		G	1			1							28-Sep-07	11:25	X	X	X							
	· 3 次 浅色 长 3		T.					Š.								Į.									
Sampler Relinquished: Relinquished by:	Reb-	9/28/2007 Time 9/28/2007		eived	By: (I									esults to: ddun				OUE	STED	» Е-л	naul re:	sults t	o Dav	n a bi)uncan a
Delivered by:		Sample		8 int		<u>UM</u>	-9		ecked		47,pp						n@ən						U Guti		- GART &

Environmental Plus, Inc.

2100 Avenue O, Eunice, NM 88231

P.O. Box 1558, Eunice, NM 88231

Chain of Custody Form

(505) 394-3481 FAX: (505) 394-2601 ANALYSIS REQUEST **Company Name** Environmental Plus, Inc. Bill To EPI Project Manager David P. Duncan 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** J.K. Rector Tank Battery Facility Name Location UL-A, Sect. 31, T 21 S, R 36 E Attn: David P. Duncan **Project Reference** 160282 PO Box 1558 EPI Sampler Name Eunice, NM 88231 Sebastian Romero MATRIX PRESERV. SAMPLING (G)RAB OR (C)OMP. **GROUND WATER** SULFATES (SO4") CHLORIDES (CI) # CONTAINERS WASTEWATER **BTEX 8021B** LAB I.D. SAMPLE I.D. ŝ ACID/BASE **TPH 8015M CRUDE OIL** ICE/COOL SLUDGE OTHER: OTHER : OTHER TCLP SOIL PAH Hd TIME DATE X X 413405 -11 SW-W (1') G 28-Sep-07 Х 11:35 1 1 -5 6 2 8 9 10 Received By: Sampler Relinguished: 9/28/2007 E-mail results to: dduncan@envplus.net Time Received By: (lab staff) Relinduished by: 9/28/2007 NOTE: RUSH ORDER - "24-HR. TURN-A-ROUND REQUESTED". E-mail results to David P. Duncan at 1m=345 128/07 3:474 dduncan@envplus.net Checked By: Delivered by: Sample Cool & Intact Yes No

ATTACHMENT III INFORMATION AND METRICS COPY OF INITIAL NMOCD FORM C-141 FINAL NMOCD FORM C-141

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Char	0	Incident E 9/19/07	Date:	NMOCD N 9/19/07	lotified:
	sapeake				
Informatio	n and Metrics				
	Lease-Tank Battery No	. 1	Assigned Site #160282	Reference : NN	IOCD Ref. 1RP#1586;EPI Ref.
Company: Ches					
	1616 West Bender				
Mailing Address:					
City, State, Zip:	Hobbs, New Mexico	88240			
Representative: E	Bradley Blevins				
Representative T	elephone: (505) 391	-1462 ext. 622	4		
Telephone:					
Fluid volume rele	eased (bbls): 120 bbls		Recov	ered (bbls): 30	bbls
	>25 bbls: Notify NMG (Also ap		vithin 24 hrs and solutions		
5-25 bbls	s: Submit form C-141 wi	thin 15 days (A	lso applies to una	uthorized releas	es of 50-500 mcf Natural Gas)
	t (LSP) Name: J.K. Re				
	ination: Tank Battery			······································	
	, BLM, ST, Fee, Other	: Dasco Cattle	Company, L.L.		
LSP Dimensions:			, <u></u>		
LSP Area: ~5,75					
Location of Refer					·····
	e and direction from R	· D ·			
Latitude: N 32° 2		<u> </u>			
Landude: N 32 2					
	mean sea level: 3,629	fact			
Feet from North		leet			·
Feet from West S			TT		
Location- Unit or Location- Section	• 1/41/4: NE1/4 of the NE	/4	Unit Letter	A	
Location- Towns		··			
Location- Range:	R36E				
	dy within 1000 ' radiu				
	vells within 1000' radi				
	er wells within 1000' r				
	ply wells within 1000'				
	surface to groundwate		feet		
	ination (DC): unknown				
	water (DG – DC = DtG				r
	oundwater		ellhead Protection		3. Distance to Surface Water Body
If Depth to GW <5			m water source,	,	<200 horizontal feet: 20 points
If Depth to GW 50	to 99 feet: 10 points		stic water source		200-1000 horizontal feet: 10 points
If Depth to GW >1			m water source, stic water source		>1000 horizontal feet: 0 points
Site Rank (1+2+3)					
		te Ranking Sc	ore and Accept	able Concentra	tions
Parameter	>19		10-19		0-9
Benzene ¹	10 ppm		10 ppm		10 ppm
BTEX	50 ppm		50 ppm		50 ppm
ТРН	100 ppm		1,000 ppn	1	5,000 ppm
100 ppm field VO	C headspace measurem	nent may be su			

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District 1 1625 N. French Dr., Hobbs, NM 88240 District 11 1301 W. Grand Avenue, Artesia, NM 88210 District 111 1000 Rio Brazos Road, Aztec, NM 87410 District IV 1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico Energy Minerals and Natural Resources

Form C-141 Revised October 10, 2003

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 Submit 2 Copies to appropriate District Office in accordance with Rule 116 on back side of form

1220 S. St. Pranci	is Dr., Santa	re, NWI 87303			Santa	a Fe	, NM 87505					side of form				
		I	Releas	e Notif	icatio	n a	nd Correc	tive Ac	tion							
		_			ERAT					Report	П	Final Repor				
Name of C	`omnanı	V. Chesane	ake En				Contact: Br			Ropoli	<u> </u>	I mar repor				
Address: H							Contact: Br Felephone N			167 ext	6774					
							······································	···	*****		0224					
Facility Na	ame: J.K	. Rector L	lease-1	ank Bati	ery	Facility Type: Tank Battery										
No.1																
Surface O	wner: D	asco Cattl	e Co. L	.L.C.	Miner	al (Owner:			Lease N	No.:					
				LOC	CATIO	N C	F RELEAS	SE								
Unit Letter	Section	Township	Range	Feet fro			th/South Line	Feet from	the E	East/West Li	ne	County				
A	31	215	36Ē	ļ								Lea				
L	I		<u> </u>	<u> </u>				l								
		Latitud	le: N 32	2° 26' 26	5.51"		Longitude	: W 103°	1 8' 00	.42"						
				N	ATURE	E OF	RELEASE									
Type of Relea							Volume of Re		Volume Re							
Source of Rel	ease: Tank	Battery					Date and Hou 19 September					f Discovery: 7 @ 1000 hrs				
Was Immedia	te Notice (Given?					If YES, To W		0 1115	19 Septem	200	/ (19 1000 ms				
		× N	Yes 🔲	No 🗌 N	lot Requi	red										
By Whom? Ba	radley Blev	rins					Date and Hour: 9-19-07 @ 1200 hrs									
Was a Watero		ched?		· · · · · · · · · · · · · · · · · · ·			If YES, Volur	ne Impactin								
			Yes 🛛	No			Not Applicable	e								
Depth to wate	er: ~211 ft															
If a Watercou	rse was In	pacted, Desc	ribe Fully	y.* Not Ap	plicable											
Describe Cam	se of Probl	am and Rem	edial Acti	on Takon	* Approx	imate	ly 120 bbls of f	uid were role	anend wit	th approvimat	taly 30	hble of fluid				
												EPI arrived with				
an Emergency	Response t	leam and bega	n remedia	l activity c	n the rele	ase <u>a</u>	rea. Emergency	remedial acti	ivities ar	e continuing.						
							750 square feet of									
of fluid, Emerg	gency Resp	onse teams co dditional soil.	ntained th	e release a	rea and in	itiate	d remedial activ remedial activit	ities. Visibly	impacte	ed soil was ex	cavale	and placed on				
laboratory anal	o prevent a lytical data	from soil sam	nles colle	cted during	delineati	00.01	perations, EPI w	ill prepare a	se area is Remedia	s being define	aleq. \cup	resent to the				
NMOCD for a	pproval.	_														
I hereby certify	y that the in	formation giv	en above	is true and	complete	to th	e best of my kno	wledge and	understa	nd that pursu	ant to N	MOCD rules				
and regulations	s all operate	ors are require	d to repor	t and/or fil	e certain r	eleas	e notifications a	nd perform c	orrective	e actions for r	eleases	which may				
endanger publi	ic neatin or	the environment	ent. Ine a	ailed to ad	ol a C-14 equately i) rep	ort by the NMO tigate and remed	CD marked a	as "Final	Report" does	s not re	lieve the				
surface water.	human heal	the or the envir	ronment.	In addition	NMOCI	nves Diace	eptance of a C-1	41 report do	es not re	lieve the oper	at to gi	responsibility				
for compliance								, , ,		and the opt						
							OI	L CONSE	ERVA	FION DIV	<u>ISIO</u>	N				
Signature:	22	Jh. r	Kh.	1												
Signature.		arey S	2000	<u> </u>		┥,	manual has Di-	. 4								
Printed Name	: Bradley E	llevins				Approved by District Supervisor:										
Title: Field Su	pervisor						pproval Date:			Expiration D	iration Date:					
						<u></u>	TELLINI Dutti									
E-mail Addres	E-mail Address: bblevins@chkenergy.com						Conditions of Ap	oproval:			Attac	hed				
Date: 9-21-07		Phor	ie: (505) 3	891-1462 e	xt. 6224											

* Attach Additional Sheets If Necessary

<u>District 1</u> 1625 N French D <u>District II</u>				Ener			New Mexico and Natural R				Revise	Form C-141 d October 10, 2003
1301 W. Grand A District III 1000 Rio Brazos F District IV 1220 S. St. Francis	Road, Aztec,	NM 87410			1220 Sc	uth	vation Divisi St. Francis e, NM 87505	Dr.		Submit Distri	ct Off	ies to appropriate ice in accordance Rule 116 on back side of form
		R	Release	e Not			nd Correc		tion			
				O	PERATO)R			Initia	al Report	\boxtimes	Final Report
Name of C	×	·····				_	Contact: Br					
Address: F			,				Telephone N				6224	
Facility Na	e: J.K	. Rector L	ease-Ta	ank Ba	ittery		Facility Typ	e: Tank	Batte	ry		
Surface O	wner: D	asco Cattle	e Co. L.	.L.C.	Miner	al	Owner:			Lease I	No.:	1RP#1586
				LO	CATIO	N (OF RELEAS	SE				
Unit Letter A	Section 31	Township 21S	Range 36E		from the		rth/South Line	Feet from	1 the	East/West Li	ne	County Lea
		Latitud	e: N 32	2° 26' 2	26.51"		Longitude	•: W 103	° 18' (00.42"		
				Ν	NATURE	O	F RELEASE					
Type of Relea		D					Volume of Re					ed: 30 bbls
Source of Rele	ease: Tank	Battery					Date and Hou 19 September					of Discovery: 07 @ 1000 hrs
Was Immedia	te Notice (No 🗔	Not Requi	rad	If YES, To W Patricia Richa	'hom?		··· •		
By Whom? Br	adley Bley						Date and Hou		@ 120	0 hrs		
Was a Watero		ched?					If YES, Volu	ne Impacti				
<u> </u>			Yes 🛛 1	No			Not Applicabl	e				
Depth to wate If a Watercou		pacted Desc	ribe Fully	v.* Not	Applicable							
						mai	ely 120 bbls of f	luid wara ra	lansad	with approxima	toly 30	bble of fluid
recovered. Upo	on discover	y of the releas	e, Chesap	eake Op	erating, Inc.	con	tacted EPI for an	emergency	respon	ise team. The er	nerger	icy response
team worked o loaded on plast		e area continu	ious from	Septeml	ber 19, 2007	to S	September 29, 20	07. Standin	g liquid	was solidified	and in	pacted material
Describe Area	Affected a						20, 2007 through					
							nging from 1- to bove NMOCD rea					
From October	18, 2007 th	rough Octobe	r 22, 2007	, the exc	cavations we	re b	ackfilled with a c	combination	of cali	che (~578 yds ³)) and t	opsoil (~324
							. The disturbed a ne best of my kno					
and regulations	all operato	ors are require	d to repor	t and/or	file certain 1	elea	se notifications a	ind perform	correct	ive actions for	release	s which may
							port by the NMO stigate and remed					
surface water, I	human heal	th or the envir	ronment.	In addit	ion, NMOCI	D ac	ceptance of a C-					
for compliance	with any o	ther federal, s	tate, or lo	cal laws	and/or regu	latio		I CONS	FRV	ATION DIV)N
Signature: 🤇	25		R	2						<u> </u>		
Signature: S		eley ,					Approved by Di	strict Sune	rvisor	ENVILLON	-16	misco
Printed Name	: Bradley E	llevins	•							- INAIRONV	<u>AEN</u>	TAL ENGINFR
Title: Field Su	pervisor						Approval Date:	12/13/	01	Expiration I	Date:	
E-mail Addres	mail Address: bblevins@chkenergy.com						Conditions of Approval:				- Atta	ched 🗌
Date: /	ate: / 2 / / - 67 Phone: (505) 391-1462 ext. 6224											-

* Attach Additional Sheets If Necessary

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