

Bratcher, Mike, EMNRD

From: Tavarez, Ike <Ike.Tavarez@tetrattech.com>
Sent: Tuesday, August 20, 2013 2:33 PM
To: Bratcher, Mike, EMNRD
Cc: Robert Grubbs; Robert McNeill; Michelle Mullins (MMullins@concho.com)
Subject: COG - Empire South Deep #3 Well Site - Work Plan Approval Request
Attachments: COG - Empire South Deep #3 Well - Work Plan .pdf

Mike,

Please find the enclosed Work Plan for the above reference spill site located in Eddy County, New Mexico. The spill has been assessed and the remedial recommendations are included in the work plan. I will mail you a hard copy of the work plan for your files. Once approved, Tetra Tech will schedule the soil remediation and notify you prior to implementing the work plan. Please let me know if you need additional information or call me if you have any questions

Ike Tavarez, PG | Senior Project Manager

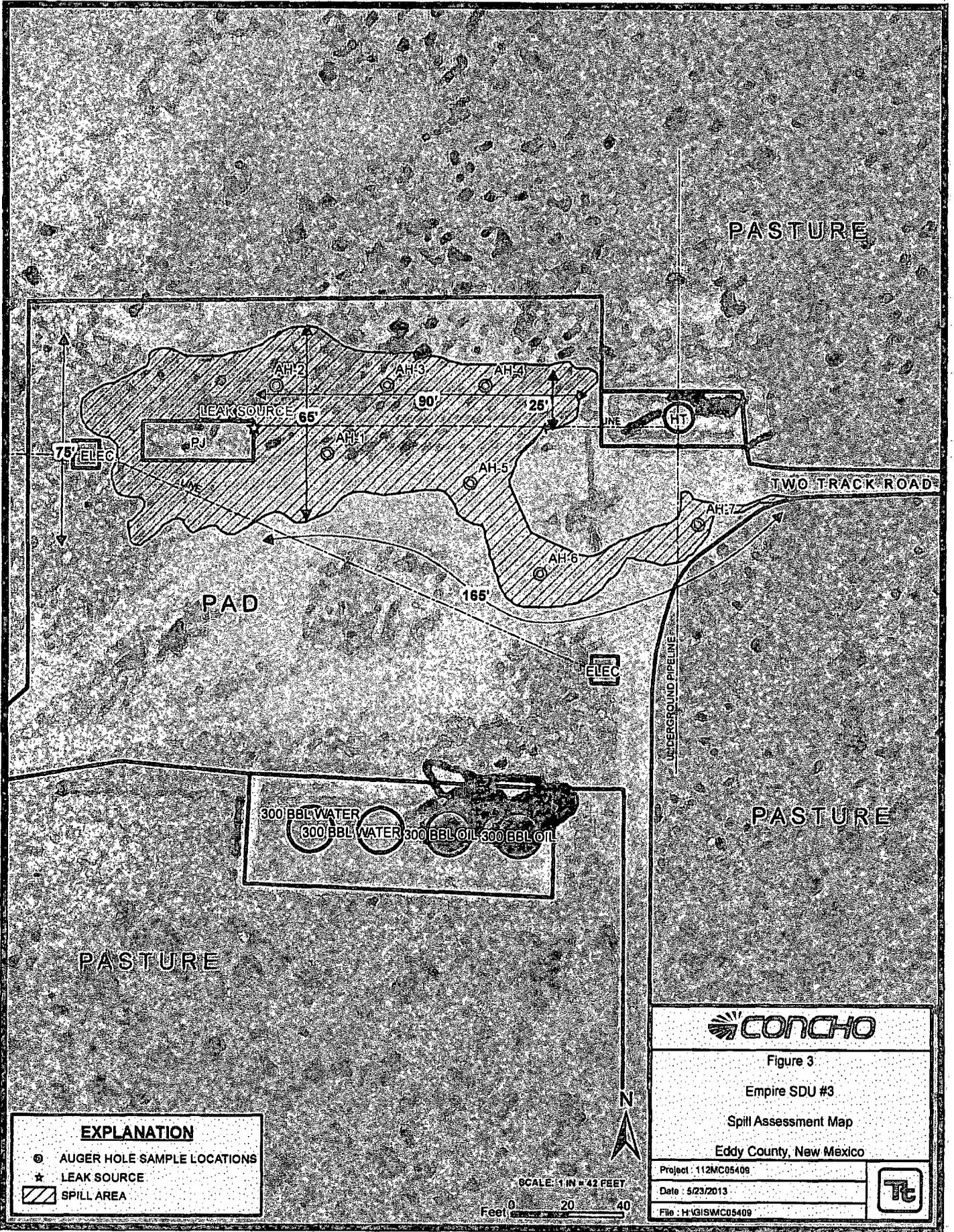
Main: 432.682.4559 | Fax: 432.682.3946 | Cell: 432.425.3878

Ike.Tavarez@tetrattech.com

Tetra Tech | Complex World, Clear Solutions™

1910 North Big Spring | Midland, TX 79705 | www.tetrattech.com

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PASTURE

PASTURE

PASTURE

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Figure 3

Empire SDU #3

Spill Assessment Map

Eddy County, New Mexico

Project: 112MC05409

Date: 5/23/2013

File: H:\GIS\MC05409



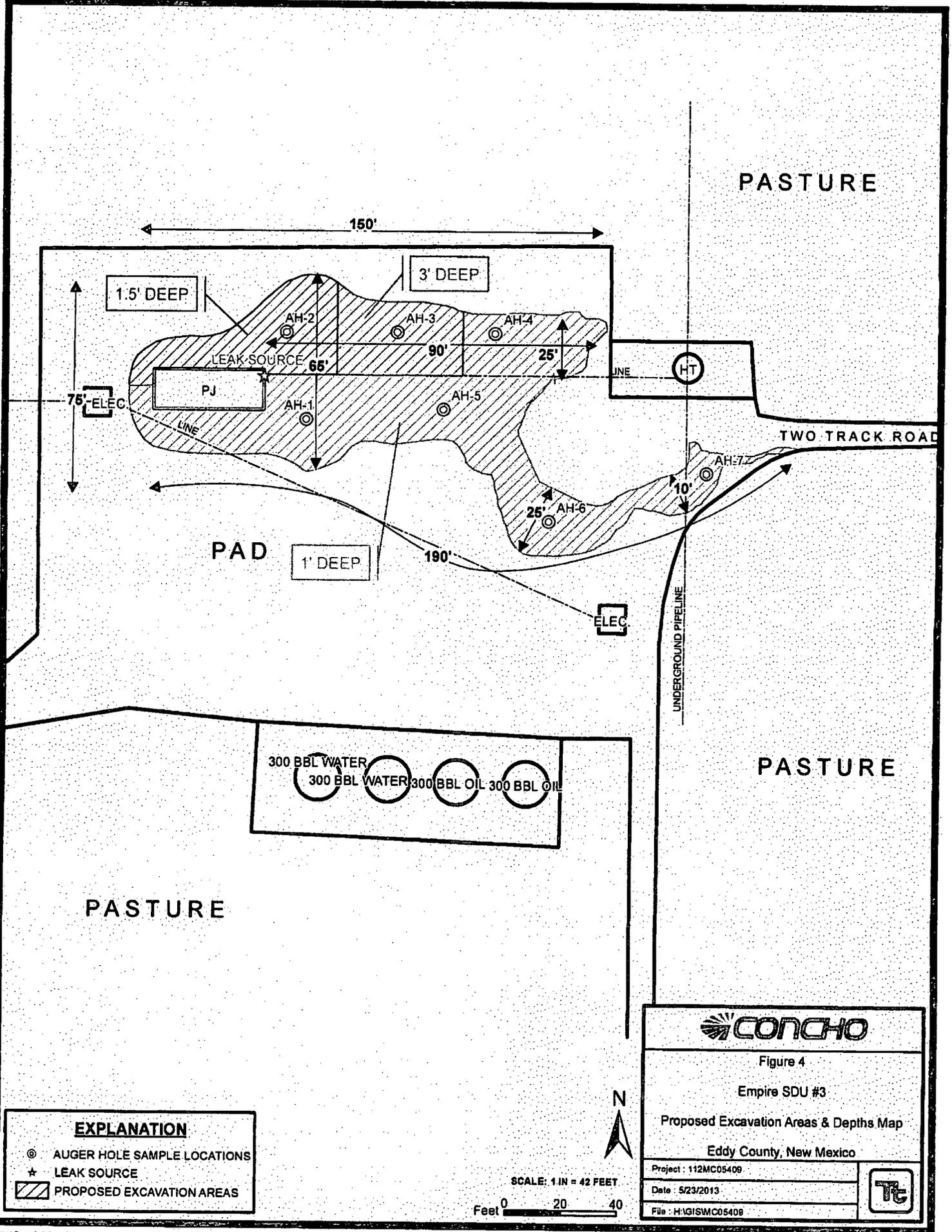
EXPLANATION

- ⊙ AUGER HOLE SAMPLE LOCATIONS
- ★ LEAK SOURCE
- ▨ SPILL AREA

SCALE: 1 IN = 42 FEET

0 20 40
Feet





EXPLANATION

- ⊙ AUGER HOLE SAMPLE LOCATIONS
- ★ LEAK SOURCE
- ▨ PROPOSED EXCAVATION AREAS

CONCHO

Figure 4
 Empire SDU #3
 Proposed Excavation Areas & Depths Map
 Eddy County, New Mexico

Project : 112MC05409	
Date : 5/23/2013	
File : H:\GIS\MC05409	

SCALE: 1 IN = 42 FEET

Feet 0 20 40

Table 1
COG Operating LLC.
Empire South Deep Unit #3
Eddy County, New Mexico

Sample ID	Sample Date	BEB Sample Depth (ft)	Excavation Bottom Depth (ft)	Soil Status		TPH (mg/kg)			Benzene (mg/kg)	Toluene (mg/kg)	Ethlybenzene (mg/kg)	Xylene (mg/kg)	Total BTEX (mg/kg)	Chloride (mg/kg)
				In-Situ	Removed	GRO	DRO	Total						
AH-1	5/14/2013	0-1	0	X		42.9	85.5	128	<0.0200	0.0893	1.07	2.24	3.40	4,650
	"	1-1.5	"	X		-	-	-	-	-	-	-	-	368
AH-2 Trench	5/14/2013	0-1	0	X		247	1,220	1,467	<0.100	1.69	6.69	14.0	22.4	10,400
	"	1-1.5	"	X		-	-	-	-	-	-	-	-	6,450
	"	2-2.5	"	X		-	-	-	-	-	-	-	-	871
AH-3 Trench	5/14/2013	0-1	0	X		55.9	486	542	<0.0400	<0.0400	<0.0400	<0.0400	<0.0400	9,770
	"	1-1.5	"	X		-	-	-	-	-	-	-	-	4,250
	"	2-2.5	"	X		-	-	-	-	-	-	-	-	1,950
AH-4	5/14/2013	0-1	0	X		5.35	<50.0	5.35	<0.0200	<0.0200	<0.0200	<0.0200	<0.0200	1,480
	"	1-1.5	"	X		-	-	-	-	-	-	-	-	104
AH-5	5/14/2013	0-1	0	X		96.0	537	633	<0.100	0.516	1.66	5.26	7.44	1,080
	"	1-1.5	"	X		-	-	-	-	-	-	-	-	601
AH-6	5/15/2013	0-1	0	X		1,090	3,280	4,370	<0.0400	13.5	37.6	65.2	116	5,990
	"	1-1.5	"	X		-	-	-	<0.0200	<0.0200	0.263	0.363	0.626	547
AH-7	5/15/2013	0-1	0	X		2,000	8,690	10,690	<1.00	22.4	53.0	102	177	5,750
	"	1-1.5	"	X		350	774	1,124	<0.200	0.961	11.2	24.6	36.8	865

(-) Not Analyzed
(BEB) Below Excavation Bottom
 Proposed Excavation Depths
Trench Install backhoe trench

Bratcher, Mike, EMNRD

From: Bratcher, Mike, EMNRD
Sent: Tuesday, October 08, 2013 6:35 AM
To: 'Tavarez, Ike'
Cc: Robert McNeill; Robert Grubbs; Michelle Mullins (MMullins@concho.com)
Subject: RE: COG Operating - Empire South Deep Unit #3 - Remediation Notification

Thanks Ike.

Mike Bratcher
NMOCD District 2
811 S. First Street
Artesia, NM 88210
O: 575-748-1283 X108
C: 575-626-0857
F: 575-748-9720

From: Tavarez, Ike [<mailto:Ike.Tavarez@tetrattech.com>]
Sent: Monday, October 07, 2013 4:07 PM
To: Bratcher, Mike, EMNRD
Cc: Robert McNeill; Robert Grubbs; Michelle Mullins (MMullins@concho.com)
Subject: COG Operating - Empire South Deep Unit #3 - Remediation Notification

Mike,

Tetra Tech has started the proposed soil remediation today on the above referenced site. We are currently spotting lines and starting the remediation in the morning. Tetra Tech will also notify you during each phase of the remediation project. We will call if the schedule changes or have any delays on the project. Call me if you have any questions, thanks

Ike Tavarez, PG | Senior Project Manager

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