

Leking, Geoffrey R, EMNRD

From: Leking, Geoffrey R, EMNRD
Sent: Friday, December 07, 2012 2:20 PM
To: 'Tavarez, Ike'
Cc: Joshua Russo; Michelle Mullins (MMullins@concho.com)
Subject: RE: COG - Magnum Pronto State Com #2 Tank Battery - Work Plan Approval Request

Ike

The work plan is approved per the responses provided in the email below. Thank you.

Geoffrey Leking
Environmental Specialist
NMOCD-Hobbs
1625 N. French Drive
Hobbs, NM 88240
Office: (575) 393-6161 Ext. 113
Cell: (575) 399-2990
email: geoffreyr.leking@state.nm.us

From: Tavarez, Ike [mailto:Ike.Tavarez@tetrattech.com]
Sent: Friday, December 07, 2012 12:26 PM
To: Leking, Geoffrey R, EMNRD
Cc: Joshua Russo; Michelle Mullins (MMullins@concho.com)
Subject: FW: COG - Magnum Pronto State Com #2 Tank Battery - Work Plan Approval Request

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The responses you requested are listed below. Let me know if you need additional information, thanks

- 1) The area of AH-4 will be excavated to a depth of approximately 3.0' to 5.0' below surface to remove the impacted soil above the RRAL. Once excavated, the excavation will be left open until the lab results are evaluated. If additional excavation is required, the area will be excavated deeper and repeat the process until the soil exceeding the RRAL has been removed. The proposed excavation depth (3-5') shown on Figure 4 are estimated depths, based on the TPH (shown Table 1) declining with depth.
- 2) The area of AH-2 will require additional evaluation (trench sampling). The impacted soil encountered at 3-4' will be confirmed and attempt to define the vertical extent. Based on the evaluation, we will determine the most practicable remedial option for the area. To clarify: If the sampling data shows a small impacted area (hot spot) and a significant chloride drop at 5.0', the chloride impact is limited and does not appear to be an environmental concern (GW 500'). However, Tetra Tech will contact you to discuss the sampling results to approve any proposed action for this area.

Ike Tavarez
Tetra Tech

From: Leking, Geoffrey R, EMNRD [<mailto:GeoffreyR.Leking@state.nm.us>]
Sent: Thursday, December 06, 2012 10:36 AM
To: Tavarez, Ike
Cc: Pat Ellis; Joshua Russo; Grubbs, Robert; Michelle Mullins (MMullins@concho.com)
Subject: RE: COG - Magnum Pronto State Com #2 Tank Battery - Work Plan Approval Request

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- 1) Page 2, "Work Plan" section, Para. 1 – Please indicate that additional excavation will be performed at AH-4 if the confirmation sample at 3.0' displays TPH concentrations above RRALs. It is also noted that Figure 4 indicates that contamination/excavation may extend to 5.0'.
- 2) Page 3, "Work Plan" section, Para. 1 – Please clarify the sentence, ..."However, if the chloride impact at AH-2 is limited, based upon the depth of the know impact and depth to groundwater, this area may be left undisturbed.".

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From: Tavarez, Ike [<mailto:Ike.Tavarez@tetratech.com>]
Sent: Wednesday, December 05, 2012 2:15 PM
To: Leking, Geoffrey R, EMNRD
Cc: Pat Ellis; Joshua Russo; Grubbs, Robert; Michelle Mullins (MMullins@concho.com)
Subject: FW: COG - Magnum Pronto State Com #2 Tank Battery - Work Plan Approval Request

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Please find the enclosed Work Plan for the above reference spill site located in Eddy County, New Mexico. The work plan includes the soil assessment and remedial recommendations for the spill. 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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DEC 05 2012

SITE INFORMATION

HOBBS OCD

RECEIVED

Report Type: Work Plan

DEC 05 2012

General Site Information:

Site:	Magnum Pronto State Com #2 Tank Battery				
Company:	COG Operating LLC				
Section, Township and Range	Unit K	Sec 32	T19S	R32E	RECEIVED
Lease Number:	API-30-025-38827				
County:	Lea County				
GPS:	32.61457° N			103.79071° W	
Surface Owner:	State				
Mineral Owner:					
Directions:	In between Carlsbad and Hobbs New Mexico at the intersection of CR 243 and CR 126, travel north on CR 126 for 3.3 miles, turn right onto lease road and travel 0.4 miles, turn right and travel 0.1 miles to location on right.				
	GW @ 525'				

Release Data:

Date Released:	7/26/2012
Type Release:	Oil and Produced Water
Source of Contamination:	Water leg at heater treater
Fluid Released:	130 bbls
Fluids Recovered:	100 bbls

Official Communication:

Name:	Pat Ellis	Thomas Franklin
Company:	COG Operating, LLC	Tetra Tech
Address:	550 W. Texas Ave. Ste. 1300	1910 N. Big Spring
P.O. Box		
City:	Midland Texas, 79701	Midland, Texas
Phone number:	(432) 686-3023	(432) 682-4559
Fax:	(432) 684-7137	
Email:	pellis@conchoresources.com	tom.k.franklin@tetrattech.com

Ranking Criteria

Depth to Groundwater:	Ranking Score	Site Data
<50 ft	20	
50-99 ft	10	
>100 ft.	0	0
WellHead Protection:	Ranking Score	Site Data
Water Source <1,000 ft., Private <200 ft.	20	
Water Source >1,000 ft., Private >200 ft.	0	0
Surface Body of Water:	Ranking Score	Site Data
<200 ft.	20	
200 ft - 1,000 ft.	10	
>1,000 ft.	0	0
Total Ranking Score:	0	

Acceptable Soil RRAL (mg/kg)		
Benzene	Total BTEX	TPH
10	50	5,000

Jeffrey Sekim
Environmental Specialist

COMMENTS PROVIDED

12/06/12

NMOCOD-DIST 1



TETRA TECH

October 15, 2012

Mr. Geoffrey Leking
Environmental Engineer Specialist
Oil Conservation Division, District 1
1625 North French Drive
Hobbs, New Mexico 88240

Re: Work Plan for the COG Operating LLC., Magnum Pronto State Com #2, Unit K, Section 32, Township 19 South, Range 32 East, Lea County, New Mexico.

Mr. Leking:

Tetra Tech, Inc. (Tetra Tech) was contacted by COG Operating LLC. (COG) to assess a spill from the Magnum Pronto State Com #2 Tank Battery, Unit K, Section 32, Township 19 South, Range 32 East, Lea County, New Mexico (Site). The spill site coordinates are N 32.61457°, W 103.79071°. The site location is shown on Figures 1 and 2.

Background

According to the State of New Mexico C-141 Initial Report, the leak was discovered on July 26, 2012, and released approximately one hundred and thirty (130) barrels of oil and produced water from the water leg of the heater treater, with one hundred (100) barrels of standing fluids recovered. The spill is located in the pasture south of the tank battery measuring approximately 25' x 60'. The initial C-141 form is enclosed in Appendix A.

Groundwater

No water wells were listed within Section 32. According to the NMOCD groundwater map, the average depth to groundwater in this area is approximately 500' below surface. The average depth to groundwater map is included in Appendix B.

Tetra Tech

1910 North Big Spring, Midland TX 79705

Tel 32682 4559 Fax 32682 2346 www.tetrattech.com



Regulatory

A risk-based evaluation was performed for the Site in accordance with the New Mexico Oil Conservation Division (NMOCD) Guidelines for Remediation of Leaks, Spills and Releases, dated August 13, 1993. The guidelines require a risk-based evaluation of the site to determine recommended remedial action levels (RRAL) for benzene, toluene, ethylbenzene and xylene (collectively referred to as BTEX) and total petroleum hydrocarbons (TPH) in soil. The proposed RRAL for benzene was determined to be 10 parts per million (ppm) or milligrams per kilogram (mg/kg) and 50 ppm for total BTEX (sum of benzene, toluene, ethylbenzene, and xylene). Based upon the depth to groundwater, the proposed RRAL for TPH is 5,000 mg/kg.

Soil Assessment and Analytical Results

On September 5, 2012, Tetra Tech personnel inspected and sampled the spill area. Four (4) auger holes (AH-1 through AH-4) were installed using a stainless steel hand auger to assess the impacted soils. Selected samples were analyzed for TPH analysis by EPA method 8015 modified, BTEX by EPA Method 8021B and chloride by EPA method 300.0. Copies of laboratory analysis and chain-of-custody documentation are included in Appendix C. The results of the sampling are summarized in Table 1. The auger hole locations are shown on Figure 3.

Referring to Table 1, the area of AH-3 showed TPH and BTEX exceeding the RRAL at 0-1.0', but declined below the RRAL at 1.5' below surface. Auger hole (AH-4) showed all of the samples exceeding the TPH RRAL from surface to 2.5' below surface, with concentrations of 11,640 mg/kg at 0-1', 12,240 mg/kg at 1-1.5' and 6,670 mg/kg at 2-2.5'. The impacted soil was not vertically defined at this area. Deeper samples were not collected due to a dense caliche formation.

In addition, elevated chloride concentrations were detected in the deeper soils in the area of AH-2 at 3.0'-3.5' and 4.0'-4.5', with chloride concentrations of 2,780 mg/kg and 7,140 mg/kg, respectively. The chlorides were not vertically defined and the impact appears to be historical.

Work Plan

COG proposes to excavate the impacted soils to depths ranging from 1.0' to 3.0' below surface in order to remove the impacted soil above the RRAL. Once excavated, a confirmation sample will be collected in the area of AH-4 for TPH analysis.



TETRA TECH

In the area of AH-2, a backhoe trench will be installed to assess and attempt to vertically define the chloride impact. Based on the evaluation, the impacted soil may be excavated or capped. However, if the chloride impact at AH-2 is limited, based upon the depth of the know impact and depth to groundwater, this area may be left undisturbed. All of the excavated material will be transported offsite for proper disposal. Once final excavation depths are achieved, the site will be backfilled with clean material and brought to grade.

If the area of AH-2 shows a deeper chloride impact to the soils or the impact is not vertically defined, the spill area may be excavated to a depth of 4.0' below surface and capped with either a 40-mil liner or clay material and backfilled with clean soil. If necessary, Tetra Tech may then oversee the installation of a single borehole to define the extents of the chloride impact.

Due to the location of the spill, the proposed excavation depths or deeper excavation may not be achieved due to wall cave ins, limited access, oil and gas equipment, electrical, structures or lines which may not be feasible or practicable to be removed due to safety concerns. As such, Tetra Tech will excavate the soils to the maximum extent practicable. If the impacted soil is not accessible, the soil will be deferred until the abandonment of the facility.

Upon completion, a final report will be submitted to the NMOCD. If you have any questions or comments concerning the assessment or the proposed remediation activities for this site, please call me at (432) 682-4559.

Respectfully submitted,
TETRA TECH

Ike Tavares, PG
Project Manager

cc: Pat Ellis – COG

Figures

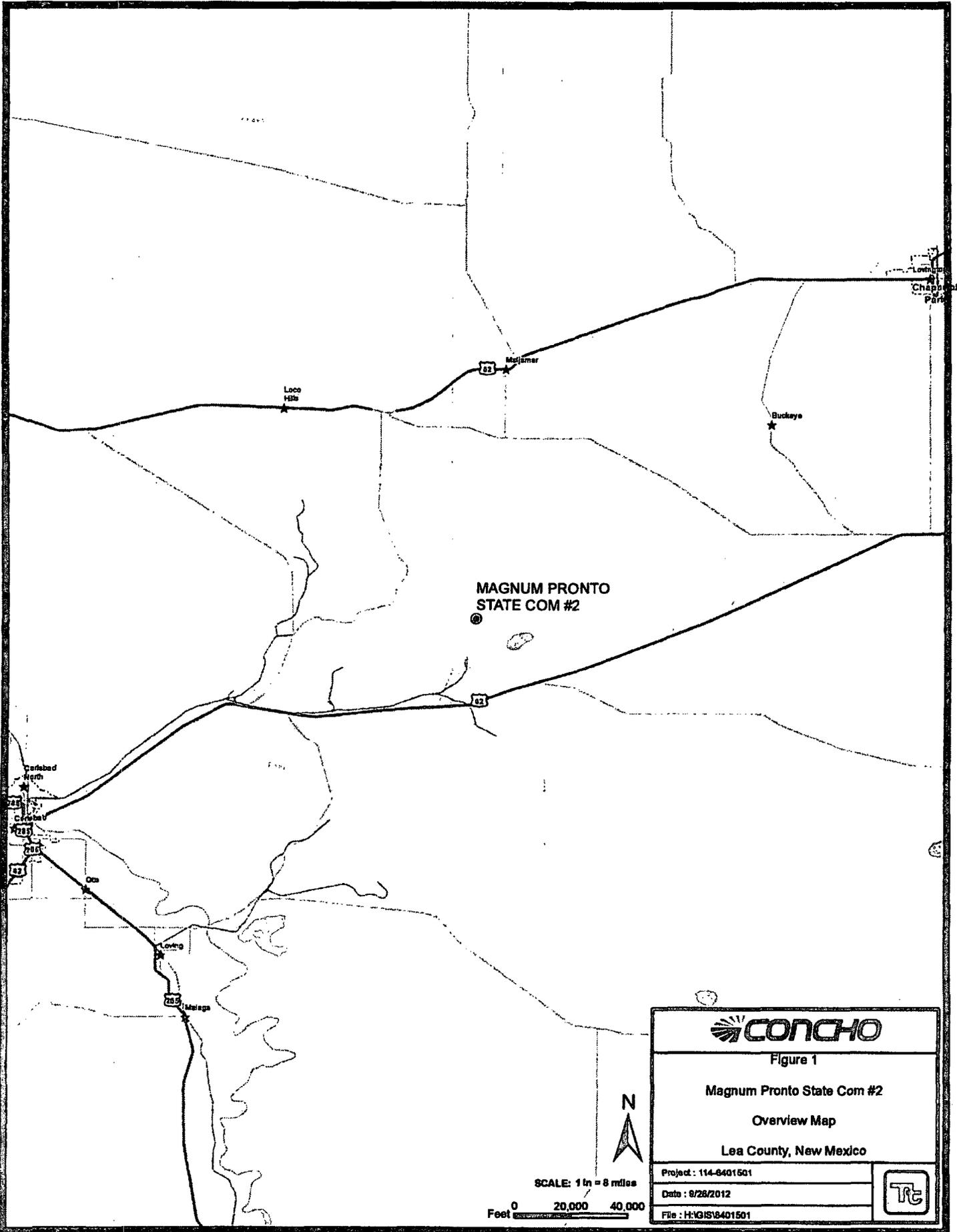
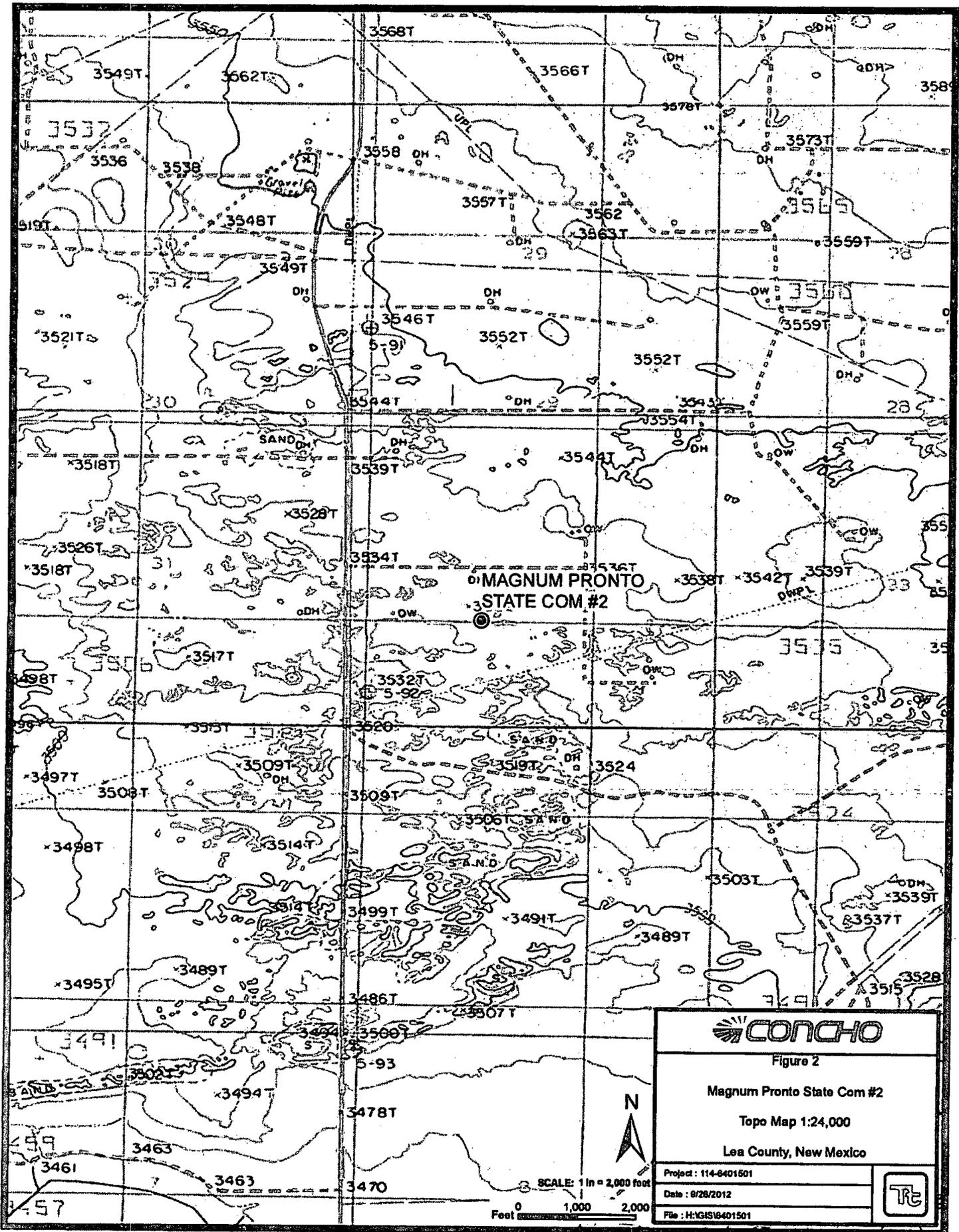


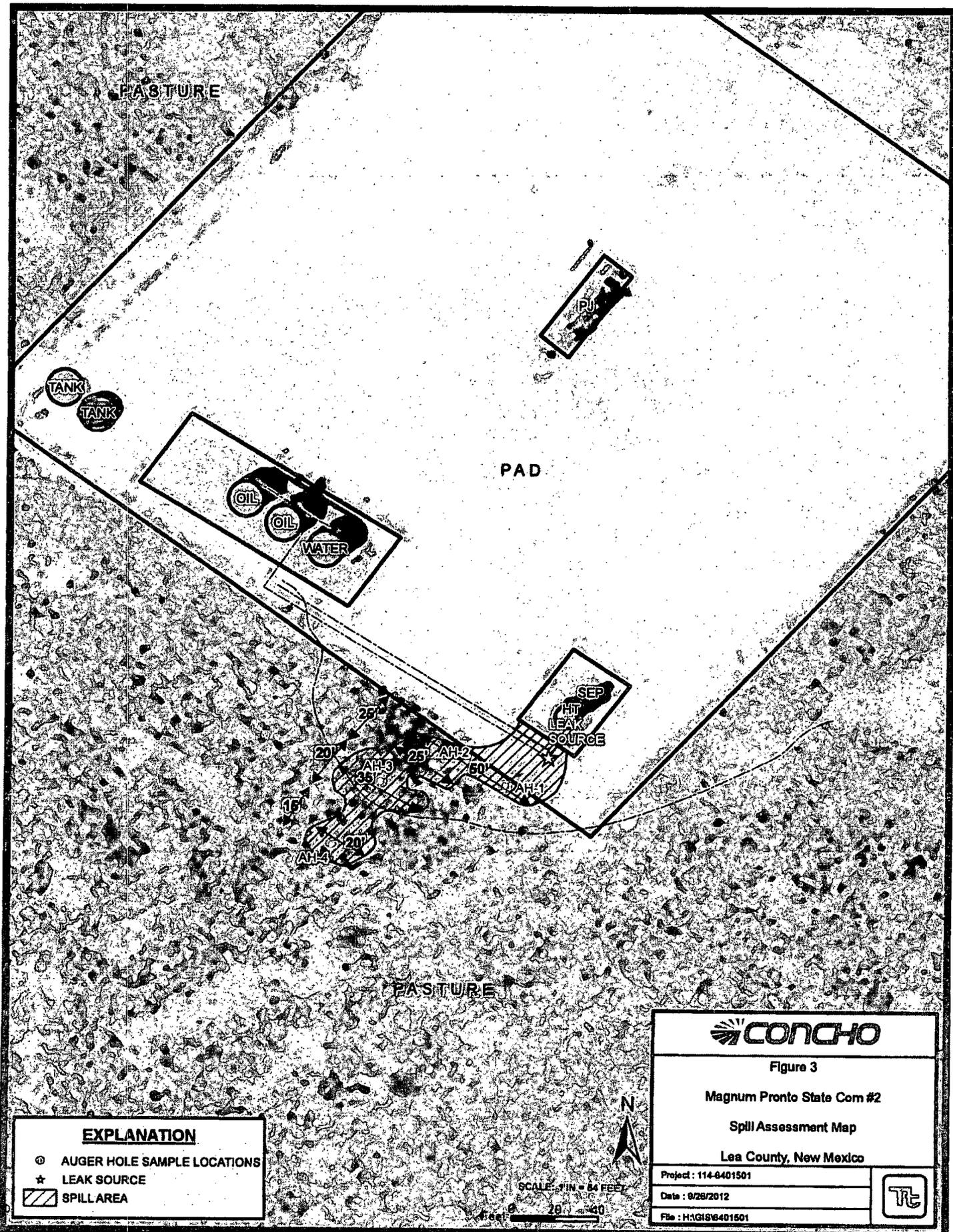
	
Figure 1 Magnum Pronto State Com #2 Overview Map Lea County, New Mexico	
Project: 114-8401501	
Date: 9/28/2012	
File: H:GIS\8401501	

SCALE: 1 in = 8 miles

0 20,000 40,000
 Feet



Drawn By: Isabel Marmaleja



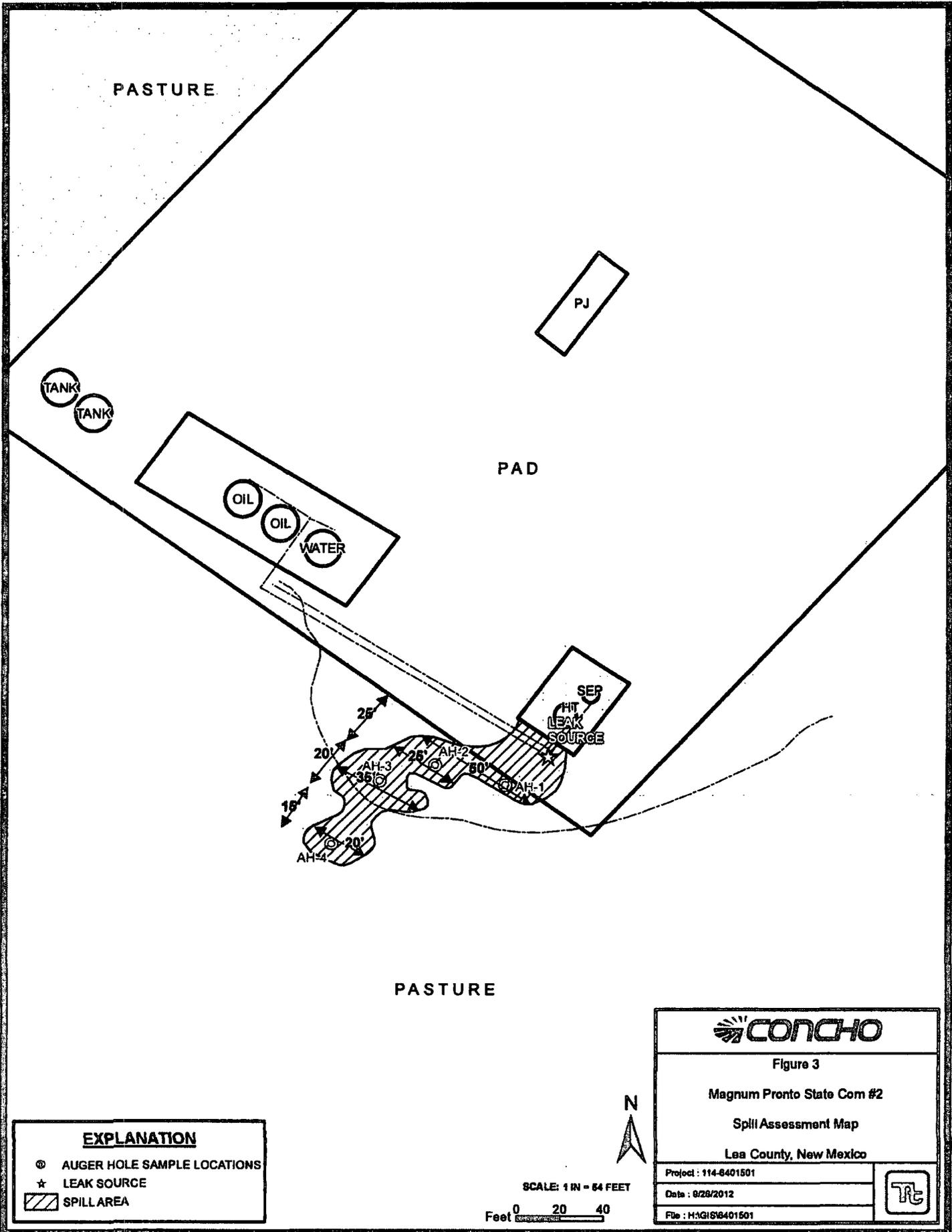
EXPLANATION

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

CONCHO

Figure 3
Magnum Pronto State Com #2
Spill Assessment Map
Lea County, New Mexico

Project : 114-6401501	
Date : 9/26/2012	
File : H:\GIS\6401501	



PASTURE

PJ

PAD

TANK

TANK

OIL

OIL

WATER

SEP

LEAK SOURCE

AH-3

AH-2

AH-1

AH-4

PASTURE

EXPLANATION

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



Figure 3

Magnum Pronto State Com #2

Spill Assessment Map

Lea County, New Mexico

Project : 114-6401501

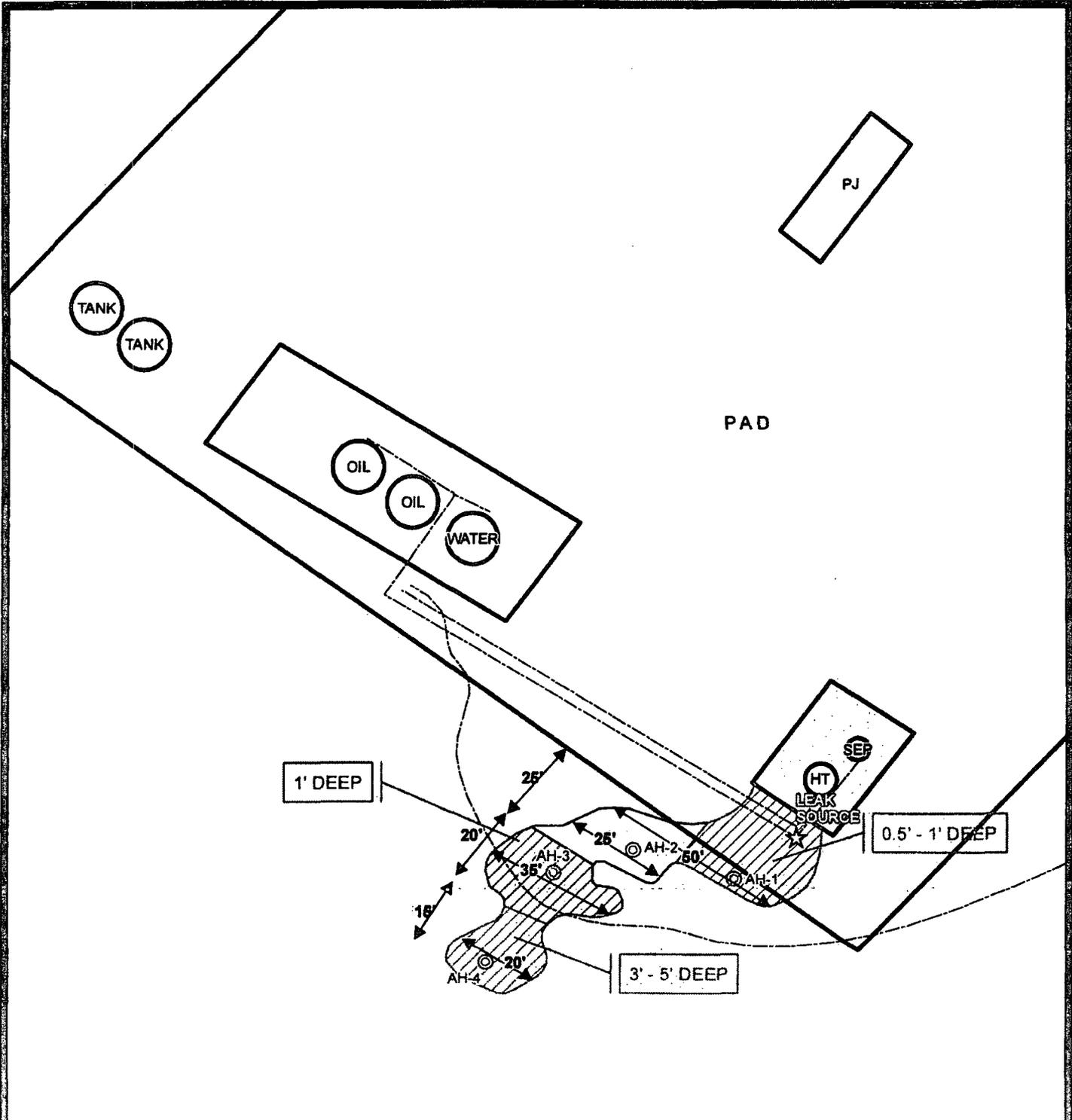
Date : 8/28/2012

File : H:\GIS\6401501



SCALE: 1 IN = 64 FEET





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

PASTURE

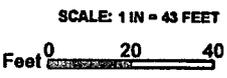


Figure 4	
Magnum Pronto State Com #2	
Proposed Excavation Areas & Depths Map	
Lea County, New Mexico	
Project : 114-6401501	
Date : 9/26/2012	
File : H:\GIS\6401501	

Tables

Table 1
COG Operating LLC.
Magnum Pronto State
Eddy County, New Mexico

Sample ID	Sample Date	Sample 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	9/5/2012	0-1	X		5.25	<50.0	5.25	<0.0200	0.131	0.0261	0.106	0.263	915
	"	1-1.5	X		-	-	-	-	-	-	-	-	420
	"	2-2.5	X		-	-	-	-	-	-	-	-	<20.0
	"	3-3.5	X		-	-	-	-	-	-	-	-	<20.0
	"	4-4.5	X		-	-	-	-	-	-	-	-	<20.0
AH-2	9/5/2012	0-1	X		676	<50.0	676	<1.00	6.43	<1.00	6.86	13.3	393
	"	1-1.5	X		-	-	-	-	-	-	-	-	39.6
	"	2-2.5	X		-	-	-	-	-	-	-	-	331
	"	3-3.5	X		-	-	-	-	-	-	-	-	2,780
	"	4-4.5	X		-	-	-	-	-	-	-	-	7,140
AH-3	9/5/2012	0-1	X		2,140	9,250	11,390	2.09	51.6	49.6	88.4	192	<20.0
	"	1-1.5	X		1,690	1,790	3,480	<0.100	0.163	0.128	0.328	0.619	<20.0
	"	2-2.5	X		6.99	<50.0	6.99	-	-	-	-	-	<20.0
	"	3-3.5	X		-	-	-	-	-	-	-	-	<20.0
	"	4-4.5	X		-	-	-	-	-	-	-	-	<20.0
AH-4	9/5/2012	0-1	X		2,390	9,250	11,640	<1.00	1.23	<1.00	2.10	3.33	<20.0
	"	1-1.5	X		3,440	8,800	12,240	-	-	-	-	-	<20.0
	"	2-2.5	X		5,030	1,640	6,670	-	-	-	-	-	<20.0

(-) Not Analyzed

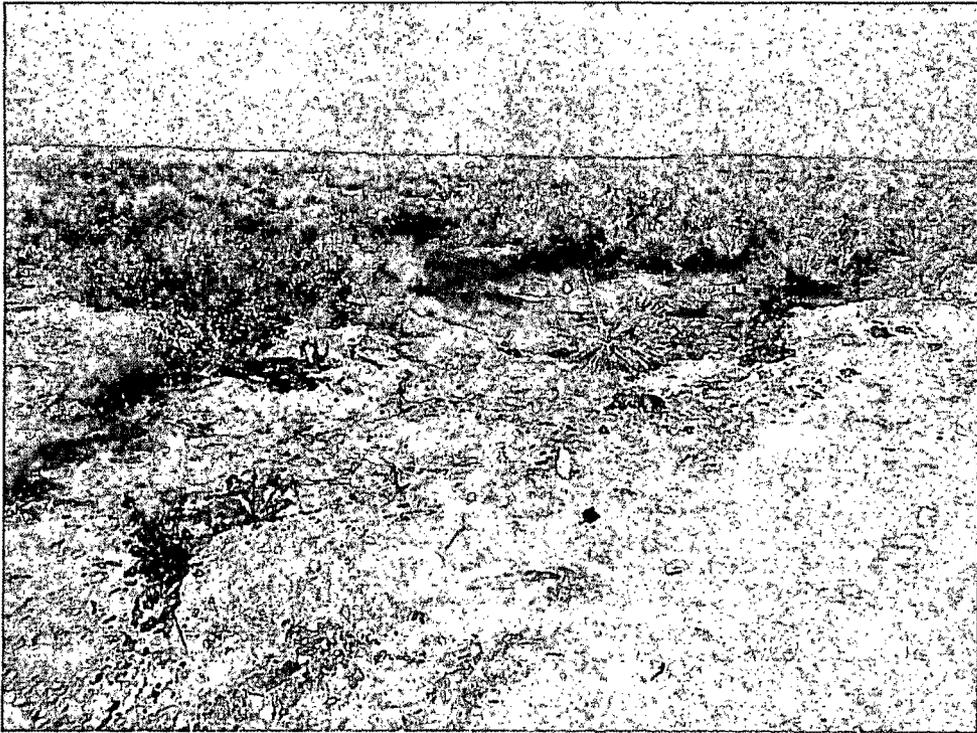
Proposed Excavation Depths

Photos

COG Operating LLC
Magnum Pronto State Com #2
Lea County, New Mexico



TETRA TECH



View Southwest – Area of AH-1 and AH-2



View South – Area of AH-3 and AH-4

Appendix A

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

State of New Mexico
Energy Minerals and Natural Resources

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-141
Revised October 10, 2003

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

Release Notification and Corrective Action

OPERATOR

Initial Report Final Report

Name of Company	COG OPERATING LLC	Contact	Pat Ellis
Address	550 W. Texas, Suite 100, Midland, TX 79701	Telephone No.	432-230-0077
Facility Name	Magnum Pronto State Com #2	Facility Type	Tank Battery

Surface Owner	State	Mineral Owner		Lease No. (API#)	30-025-38827
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LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
K	32	19S	32E					Lea

Latitude 32 36.903 Longitude 103 47.446

NATURE OF RELEASE

Type of Release	Oil and produced water	Volume of Release	130bbbls	Volume Recovered	100bbbls
Source of Release	Water leg at heater	Date and Hour of Occurrence	07/26/2012	Date and Hour of Discovery	07/26/2012 10:00a.m.
Was Immediate Notice Given?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom?	Geoffrey Leking-OCD		
By Whom?	Michelle Mullins	Date and Hour	07/30/2012 10:58 a.m.		
Was a Watercourse Reached?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.			

If a Watercourse was Impacted, Describe Fully.*

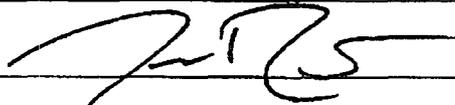
Describe Cause of Problem and Remedial Action Taken.*

A water leg failed at heater which caused the release of fluid. The heater has been removed from service as the water leg is being repaired.

Describe Area Affected and Cleanup Action Taken.*

Initially 130bbbls of fluid were released from the faulty water leg and we were able to recover 100bbbls with a vacuum truck. Terra Tech will sample the spill site area to delineate any possible contamination from the release and we will present a remediation work plan to the NMOCD for approval prior to any significant remediation work.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Signature:		OIL CONSERVATION DIVISION		
Printed Name:	Josh Russo	Approved by District Supervisor:		
Title:	HSE Coordinator	Approval Date:	Expiration Date:	
E-mail Address:	jrusso@conchoresources.com	Conditions of Approval:		Attached <input type="checkbox"/>
Date:	08/07/2012	Phone:	432-212-2399	

* Attach Additional Sheets If Necessary

Appendix B

Water Well Data
Average Depth to Groundwater (ft)
COG - Magnum Pronto State Com #2
Lea County, New Mexico

18 South 31 East

6	5	4	3	2	1
7	8	9	10	11	12
18	17	16	15	14	13
19	20	21	22	23	24
30	29	28	27	26	25
31	32	33	34	35	38

18 South 32 East

6	5	4	65	3	2	1
7	460	8	9	10	11	12
18	17	16	15	14	13	
19	20	21	22	23	24	
30	29	28	27	26	25	
31	32	33	34	35	38	

18 South 33 East

6	5	4	3	60	2	1		
7	8	100	9	10	11	46	12	143
18	17	16	15	14	13	60		
19	20	21	22	23	24			
30	29	28	27	26	25			
31	32	33	34	35	38			

19 South 31 East

6	5	4	3	2	1
7	8	9	10	11	12
18	17	16	15	14	13
19	20	21	22	23	24
30	29	28	27	26	25
31	32	33	101	34	38

19 South 32 East

6	5	4	3	2	1	
7	8	9	10	11	12	
18	17	16	15	14	13	135
19	20	21	22	23	24	
30	29	28	27	26	25	
31	32	33	34	35	38	

19 South 33 East

6	5	4	3	2	1		
7	8	9	10	11	12		
18	17	16	15	14	13		
19	20	21	22	23	24		
30	29	28	130	27	26	92	25
31	32	33	34	35	38		

20 South 31 East

6	5	4	3	2	1
7	8	9	10	11	12
18	17	16	15	14	13
19	20	21	22	23	24
30	29	28	27	26	25
31	32	33	34	35	38

20 South 32 East

6	5	4	3	2	1
7	8	9	10	11	12
18	17	16	15	14	13
19	20	21	22	23	24
30	29	28	27	26	25
31	32	33	34	35	38

20 South 33 East

6	5	278	4	3	2	1
7	8	9	10	11	12	
18	17	16	15	14	13	
19	20	21	22	23	24	
30	29	28	27	26	25	
31	32	33	34	35	38	

-  New Mexico State Engineers Well Reports
-  USGS Well Reports
-  Geology and Groundwater Conditions in Southern Eddy, County, NM
-  NMOCD - Groundwater Data
-  Field water level
-  New Mexico Water and Infrastructure Data System

Appendix C

Summary Report

Ike Tavarez
 Tetra Tech
 1910 N. Big Spring Street
 Midland, TX 79705

Report Date: September 25, 2012

Work Order: 12091205



Project Location: NM
 Project Name: COG/Magnum Pronto State Com. #2
 Project Number: 114-6401501

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
308963	AH-1 0-1'	soil	2012-09-05	00:00	2012-09-11
308964	AH-1 1-1.5'	soil	2012-09-05	00:00	2012-09-11
308965	AH-1 2-2.5'	soil	2012-09-05	00:00	2012-09-11
308966	AH-1 3-3.5'	soil	2012-09-05	00:00	2012-09-11
308967	AH-1 4-4.5'	soil	2012-09-05	00:00	2012-09-11
308968	AH-2 0-1'	soil	2012-09-05	00:00	2012-09-11
308969	AH-2 1-1.5'	soil	2012-09-05	00:00	2012-09-11
308970	AH-2 2-2.5'	soil	2012-09-05	00:00	2012-09-11
308971	AH-2 3-3.5'	soil	2012-09-05	00:00	2012-09-11
308972	AH-2 4-4.5'	soil	2012-09-05	00:00	2012-09-11
308973	AH-3 0-1'	soil	2012-09-05	00:00	2012-09-11
308974	AH-3 1-1.5'	soil	2012-09-05	00:00	2012-09-11
308975	AH-3 2-2.5'	soil	2012-09-05	00:00	2012-09-11
308976	AH-3 3-3.5'	soil	2012-09-05	00:00	2012-09-11
308977	AH-3 4-4.5'	soil	2012-09-05	00:00	2012-09-11
308978	AH-4 0-1'	soil	2012-09-05	00:00	2012-09-11
308979	AH-4 1-1.5'	soil	2012-09-05	00:00	2012-09-11
308980	AH-4 2-2.5'	soil	2012-09-05	00:00	2012-09-11

Sample - Field Code	BTEX				TPH DRO - NEW DRO (mg/Kg)	TPH GRO GRO (mg/Kg)
	Benzene (mg/Kg)	Toluene (mg/Kg)	Ethylbenzene (mg/Kg)	Xylene (mg/Kg)		
308963 - AH-1 0-1'	<0.0200	0.131	0.0261	0.106	<50.0	5.25 Q _s
308968 - AH-2 0-1'	<1.00	6.43	<1.00	6.86	<50.0	676 Q _s
308973 - AH-3 0-1'	2.09	51.6	49.6	88.4	9250	2140 Q _s
308974 - AH-3 1-1.5'	<0.100	0.163	0.128	0.328	1790	1690 J _s
308975 - AH-3 2-2.5'	<0.100	0.163	0.128	0.328	<50.0	6.99
308978 - AH-4 0-1'	<1.00	1.23	<1.00	2.10	9250	2390 Q _s
308979 - AH-4 1-1.5'	<1.00	1.23	<1.00	2.10	8800	3440

continued ...

... continued

Sample - Field Code	BTEX				TPH DRO - NEW DRO (mg/Kg)	TPH GRO GRO (mg/Kg)
	Benzene (mg/Kg)	Toluene (mg/Kg)	Ethylbenzene (mg/Kg)	Xylene (mg/Kg)		
308980 - AH-4 2-2.5'					1640	5030

Sample: 308963 - AH-1 0-1'

Param	Flag	Result	Units	RL
Chloride		915	mg/Kg	4

Sample: 308964 - AH-1 1-1.5'

Param	Flag	Result	Units	RL
Chloride		420	mg/Kg	4

Sample: 308965 - AH-1 2-2.5'

Param	Flag	Result	Units	RL
Chloride		<20.0	mg/Kg	4

Sample: 308966 - AH-1 3-3.5'

Param	Flag	Result	Units	RL
Chloride		<20.0	mg/Kg	4

Sample: 308967 - AH-1 4-4.5'

Param	Flag	Result	Units	RL
Chloride		<20.0	mg/Kg	4

Sample: 308968 - AH-2 0-1'

Param	Flag	Result	Units	RL
Chloride		393	mg/Kg	4

Sample: 308969 - AH-2 1-1.5'

continued ...

sample 308969 continued ...

Param	Flag	Result	Units	RL
Param	Flag	Result	Units	RL
Chloride		39.6	mg/Kg	4

Sample: 308970 - AH-2 2-2.5'

Param	Flag	Result	Units	RL
Chloride		331	mg/Kg	4

Sample: 308971 - AH-2 3-3.5'

Param	Flag	Result	Units	RL
Chloride		2780	mg/Kg	4

Sample: 308972 - AH-2 4-4.5'

Param	Flag	Result	Units	RL
Chloride		7140	mg/Kg	4

Sample: 308973 - AH-3 0-1'

Param	Flag	Result	Units	RL
Chloride		<20.0	mg/Kg	4

Sample: 308974 - AH-3 1-1.5'

Param	Flag	Result	Units	RL
Chloride		<20.0	mg/Kg	4

Sample: 308975 - AH-3 2-2.5'

Param	Flag	Result	Units	RL
Chloride		<20.0	mg/Kg	4

Sample: 308976 - AH-3 3-3.5'

Param	Flag	Result	Units	RL
Chloride		<20.0	mg/Kg	4

Sample: 308977 - AH-3 4-4.5'

Param	Flag	Result	Units	RL
Chloride		<20.0	mg/Kg	4

Sample: 308978 - AH-4 0-1'

Param	Flag	Result	Units	RL
Chloride		<20.0	mg/Kg	4

Sample: 308979 - AH-4 1-1.5'

Param	Flag	Result	Units	RL
Chloride		<20.0	mg/Kg	4

Sample: 308980 - AH-4 2-2.5'

Param	Flag	Result	Units	RL
Chloride		<20.0	mg/Kg	4
