

## Bratcher, Mike, EMNRD

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**From:** Tavarez, Ike <Ike.Tavarez@tetrattech.com>  
**Sent:** Tuesday, February 19, 2013 8:19 AM  
**To:** Bratcher, Mike, EMNRD  
**Cc:** Joshua Russo; Robert Grubbs; Kujawski, Marcus  
**Subject:** COG Operating - Myox 29 State Com #3H - Spill Background Chlorides  
**Attachments:** Myox 29 State - Analysis Table 1.pdf; FIG 4.pdf; IMG-20130218-00097.jpg

Mike,

We are currently at the Myox 29 State location implementing the remediation work plan. Prior to excavating the deeper soils, a background trench was installed to evaluate the soils in the area for chlorides. The background field results are attached. The spill area is located near the Red Draw and the background samples showed increasing chlorides with depth to 1,600 mg/kg at 10.0' below surface. The chloride impact in the deeper soils may be due to background concentrations in the area. I would like to discuss and confirm this with you. I will call you to discuss, thanks

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TETRA TECH

CLIENT \_\_\_\_\_

JOB TITLE \_\_\_\_\_

JOB NUMBER \_\_\_\_\_

SUBJECT \_\_\_\_\_

BY \_\_\_\_\_

BACK GROUND 0' 280

2' 400

4' 360

6' 560

8' 960

10' 1600

**Table 1**  
**COG Operating LLC.**  
**Myox 29 State Commingle #3H**  
**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	12/6/2012	0-1	X		<4.00	<50.0	<50.0	<0.0200	<0.0200	<0.0200	<0.0200	<0.0200	1,660
	"	1-1.5	X		-	-	-	-	-	-	-	-	320
	"	2-2.5	X		-	-	-	-	-	-	-	-	305
	"	3-3.5	X		-	-	-	-	-	-	-	-	1,410
	"	4-4.5	X		-	-	-	-	-	-	-	-	635
	"	5-5.5	X		-	-	-	-	-	-	-	-	769
AH-2 Trench	12/6/2012	0-1	X		<4.00	<50.0	<50.0	<0.0200	<0.0200	<0.0200	<0.0200	<0.0200	821
	"	1-1.5	X		-	-	-	-	-	-	-	-	138
	"	2-2.5	X		-	-	-	-	-	-	-	-	1,120
	"	3-3.5	X		-	-	-	-	-	-	-	-	1,020
	"	4-4.5	X		-	-	-	-	-	-	-	-	1,030
AH-3	12/6/2012	0-1	X		<4.00	<50.0	<50.0	<0.0200	<0.0200	<0.0200	<0.0200	<0.0200	1,800
	"	1-1.5	X		-	-	-	-	-	-	-	-	306
	"	2-2.5	X		-	-	-	-	-	-	-	-	38.9
	"	3-3.5	X		-	-	-	-	-	-	-	-	126
	"	4-4.5	X		-	-	-	-	-	-	-	-	122
	"	5-5.5	X		-	-	-	-	-	-	-	-	112
AH-4 Trench	12/6/2012	0-1	X		<4.00	<50.0	<50.0	<0.0200	<0.0200	<0.0200	<0.0200	<0.0200	948
	"	1-1.5	X		-	-	-	-	-	-	-	-	486
	"	2-2.5	X		-	-	-	-	-	-	-	-	141
	"	3-3.5	X		-	-	-	-	-	-	-	-	108
	"	4-4.5	X		-	-	-	-	-	-	-	-	537
	"	5-5.5	X		-	-	-	-	-	-	-	-	2,110

*will so  
deeper  
to investigate*

**Table 1**  
**COG Operating LLC.**  
**Myox 29 State Commingle #3H**  
**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-5	12/6/2012	0-1	X		<4.00	<50.0	<50.0	<0.0200	<0.0200	<0.0200	<0.0200	<0.0200	734
	"	1-1.5	X		-	-	-	-	-	-	-	-	251
	"	2-2.5	X		-	-	-	-	-	-	-	-	320
	"	3-3.5	X		-	-	-	-	-	-	-	-	463
	"	4-4.5	X		-	-	-	-	-	-	-	-	389
	"	5-5.5	X		-	-	-	-	-	-	-	-	54.2
AH-6 Trench	12/6/2012	0-1	X		<8.00	<50.0	<50.0	<0.0400	<0.0400	<0.0400	<0.0400	<0.0400	2,960
	"	1-1.5	X		-	-	-	-	-	-	-	-	2,880
	"	2-2.5	X		-	-	-	-	-	-	-	-	440
	"	3-3.5	X		-	-	-	-	-	-	-	-	284
	"	4-4.5	X		-	-	-	-	-	-	-	-	660
	"	5-5.5	X		-	-	-	-	-	-	-	-	1,130
AH-7 Trench	12/6/2012	0-1	X		<4.00	<50.0	<50.0	<0.0200	<0.0200	<0.0200	<0.0200	<0.0200	1,630
	"	1-1.5	X		-	-	-	-	-	-	-	-	2,420
	"	2-2.5	X		-	-	-	-	-	-	-	-	812
	"	3-3.5	X		-	-	-	-	-	-	-	-	1,380
	"	4-4.5	X		-	-	-	-	-	-	-	-	1,790
	"	5-5.5	X		-	-	-	-	-	-	-	-	1,370

( - ) Not Analyzed



Proposed Excavation Depths



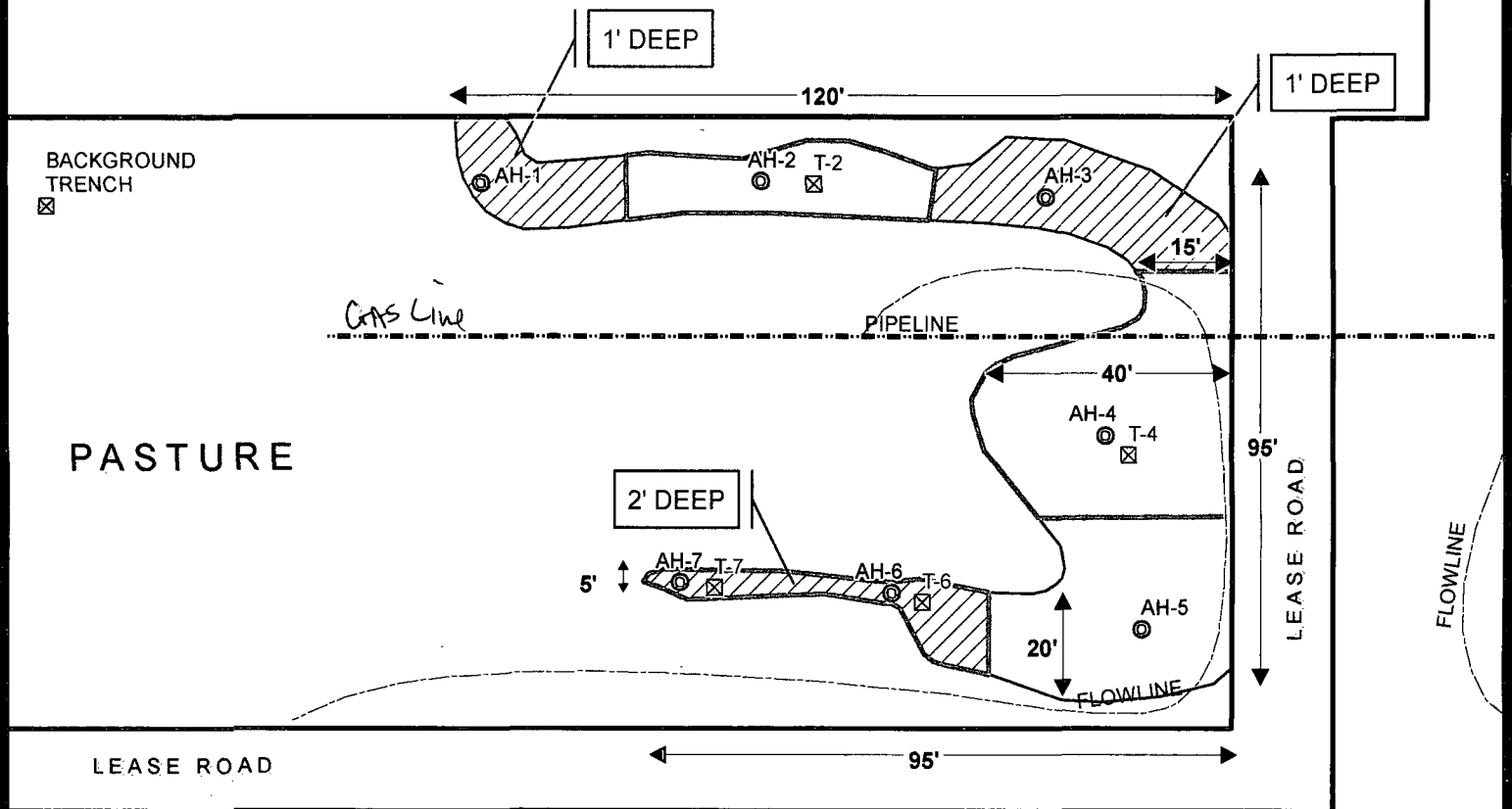
Shallow soils will be excavated and field screened (chlorides) to determine if the soils will be used for backfilling or transported to disposal

Proposed Liner or Clay Cap (Caps will be determined after evaluation with trenches)

Trench Proposed Backhoe Trench



PAD



PASTURE

# EXPLANATION

- ⊙ AUGER HOLE SAMPLE LOCATIONS
- ⊠ TRENCH LOCATIONS
- ▭ PROPOSED CLAY CAP/LINER IF NECESSARY (DETERMINE AFTER EVALUATION)
- ▨ PROPOSED EXCAVATION AREAS



SCALE: 1 IN = 38 FEET

Feet 0 20 40



Figure 4

Myox 29 State Com #3H

Proposed Excavation Areas & Depths Map

Eddy County, New Mexico

Project : 114-6401608

Date : 12/14/2012

File : H:\GIS\6401608

