Bratcher, Mike, EMNRD

From:

Tavarez, lke [lke.Tavarez@tetratech.com] Wednesday, October 07, 2009 9:53 AM

Sent: To:

Bratcher, Mike, EMNRD

Cc:

Pat Ellis

Subject:

COG - RJU #119 Work Plan

Attachments:

COG - RJU #119, Work Plan.pdf; COG - RJU #119, Work Plan Figures.pdf

Mike,

Please find enclosed the COG - RJU #119 Work Plan. As discussed in our meeting, the proposed excavation depths and liner installation are presented in the work plan. COG is currently scheduling the excavation for next week. Our main concern on the excavation is the active Conoco line running through the spill area. Prior to excavation, I would like to discuss this issue with you. Please let me know if you have any questions concerning the work plan. I will mail you a hard copy of the work plan for your files. Thanks

Ike Tavarez, PG Senior Project Manager

Not 11 432 682 4559 | Fax | 431 682 7943 | Oelt | 437 425 3878

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October 6, 2009

Mr. Mike Bratcher **Environmental Engineer Specialist** Oil Conservation Division, District 2 1301 West Grand Avenue Artesia, NM 88210

Re: Work Plan for the COG Operating LLC., RJU Unit #119, Injection line leak, Unit P, Section 27, Township 17 South, Range 29 East, Eddy County, New Mexico.

Mr. Bratcher:

Tetra Tech Inc. (Tetra Tech) was contacted by COG Operating LLC. (COG) to assess a spill from the RJU #119 located in Unit P, Section 27, Township 17 South, Range 29 East, Eddy County, New Mexico (Site). The spill site coordinates are N 32.80042°, W 104.05663°. 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 May 30, 2009. Approximately 200 barrels of produced water was released from a hole on a 2-inch injection line. The 2 inch poly line was repaired with new connections. Vacuum trucks were utilized to recover 150 barrels of standing fluids. The initial C-141 is enclosed in Appendix A.

Groundwater

No water wells were listed within Section 27. An abandoned water well was located in Section 35 and measured a total depth of 153' (dry). According to the Geology and Groundwater Resources of Eddy County, New Mexico (Report 3), one well is located in Section 22 (Bear Grass Draw) with a depth to water of 79.0' below surface. In addition, a well located in Section 29 was reported at 210 below surface. According to the NMOCD groundwater map the average depth to groundwater in this area is approximately 150' below surface. The Geology and Groundwater Resources of Eddy County, New Mexico (Report 3) well report data is shown in Appendix B.



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 Results

On June 4, 2009, Tetra Tech personnel inspected the spill area, which measured approximately 40' x 205' and 10' x 100', located west of the County Road. Prior to sampling, COG excavated 1.0' to 2.0' of impacted soil and hauled to proper disposal. A total of seven (7) auger holes (AH-1 through AH-7) were installed using a stainless steel hand auger to assess the impacted soils. Select 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 D. The results of the sampling are summarized in Table 1.

Referring to Table 1, AH-1 and AH-2 samples exceeded the TPH RRAL to a depth of 2.0' below surface. In addition, the total BTEX exceeded the RRAL in AH-1 and AH-2. Elevated chloride concentrations were detected in all of the auger holes, with no chlorides delineated in any of the auger holes.

In order to complete delineation of the chlorides at the sites, on June 30, 2009, Tetra Tech personnel were onsite to install ten (10) boreholes (SB-1 through SB-10) utilizing an air rotary rig. Some of the borings were installed in the vicinity of the previous auger holes. The boreholes were extended to a maximum depth of 15 to 35 feet bgs with samples collected at 2 to 3 foot intervals for the first 15 feet and 5 foot intervals thereafter and submitted to the laboratory for analysis of chlorides and selected samples for BTEX.

Analytical results indicate the maximum extent of chloride impact greater than 1,000 mg/kg extended from 11 feet (SB-2) to 30 feet (SB-1) bgs. All samples had chloride concentrations that decreased with depth. Borehole logs are included in Appendix C. Copies of laboratory analysis and chain-of-custody documentation are included in Appendix D. The results of the sampling are summarized in Table 1. The borehole and auger hole locations are shown on Figure 3.

Work Plan

Based upon the corrective action discussion with the NMOCD on July 27, 2009, Tetra Tech personnel will supervise the removal of impacted soils for proper disposal. In addition, selected excavated areas will be capped (lined) with a 40 mil plastic liner.



Once the areas are excavated to the appropriate depths, the excavation will be backfilled with clean soil. The liner will be installed at a depth of 4.0' below surface. The depths of the excavations and liner installation areas are shown on Figure 4. Two lines are located in the area of spill/excavation. The active line (Conoco) is running east and west through the center of the spill area and an abandoned line (DCP) runs north and south through the spill. These areas will need to be cleared prior to excavating around the lines.

If you require any additional information or have any questions or comments concerning this report, please call at (432) 682-4559.

Respectfully submitted,

TETRA JECH

Ike Tavarez, P.G.

Senior Project Manager

cc: Pat Ellis - COG

Table 1 COG Operating LLC RJU #119 Flowline Spill Eddy County, New Mexico

Area	- Sample :	Date Date	Sample	Soil S	Status		ГРН (mg/kg)	Benzene	Toluene	Ethlybenzene	Xylene	Chloride
	i D 🗳	Sampled .	Depth (ft)	In-Situ	Removed	, DRO	GRO	Total	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
Area of SB-1	AH-5	6/4/2009	0-1	X		3200	19.9	3219.9	2.1	- 30	77-10	· - 14 14 e	1170
		6/4/2009	1-1.5	- XX 3	i i	\$ 14 <u>2</u> 3 3	• 13.5	7 St. 34				14 (4)	412
		6/4/2009	2-2.5	X	<u> </u>	V 49.4	1/3/4 1/3			4.00	\$464 - 15 \$	- 6	535
		6/4/2009	3-3.5	X	23 3 3 1 i	\$27				12.00	8 /2 - 233	1. 12.1	638
		6/4/2009	4-4.5	X		-31.5	111-12	<u>₩</u>	-	2.77	*	N. <u>3</u> ₹ ₹ 1	1160
		6/4/2009	5-5.5	x		<u>,</u> ,`v .`	- 28	\$ 1. F	-		-	3 (A)	937
	\$ 7/4	6/4/2009	6-6.5	3 x . ₹		3 -	- 33	-	3	- 1	10 × 10 m 2 m	-33	927
		6/4/2009	7-7.5	液分物 X		, 🐒 🗝/ , , ;	- :	-	<i>∵</i> ∦ - ``			ila •/ili	1380
		≥ 6/4/2009	8-8.5	X.	1	-	į			· · · · · · · · · · · · · · · · · · ·		(A)	1100
			31,113	作题形 。	3.					,	,		
	SB-1	6/30/2009	5-6	△ X 🐼	`	-	- ·	1.48			 (3)	. (3)	1,190
		6/30/2009	8-9	⊗ X		•	<u> </u>		103 (4.3%)			i i	1,630
liner	100	6/30/2009	11-12	.∜×x	2 3	-37	•	-	(s) (s) = 1	, 1 (<u>)</u>	2.8		6,240
		6/30/2009	13-14	X		-	-	-		-	-	-	2,760
		6/30/2009	15-16	X		-	-	-				-	4,210
		6/30/2009	20-21	X		-	-	-	-		-		1,870
		6/30/2009	25-26	X		-	-			_	-	-	1,290
		6/30/2009	30-31	X		-	-	-	-	-	-	-	706
A. 3.77		6/30/2009	35-36	X		_	-	-		-		*	406
	, ,		(2xx) ^	2 - 7642 - C	<u> </u>	<u> </u>			3			, , , , , , , , , , , , , , , , , , ,	
Area of SB-2	AH-4	6/4/2009	0-1	X		<50.0	18.1	18.1	2.				5390
		6/4/2009	1-1.5	X		<u> </u>	\$4. •	-	<u> </u>		- 2		5570
		6/4/2009	· 2-2.5	X		184		- 1	202	-	<u>.</u>	10.2	8120
		6/4/2009	3-3.5	X					-	• 22	<u> </u>		3280
		6/4/2009	4-4.5	X		4 00			-			•	2740
		6/4/2009	5-5.5	X			-	-	-	•	-		2710
	SB-2	6/30/2009	5-6	X		-	-	-		-	-	-	3,990
		6/30/2009	8-9	X			-	-		-	+	-	3,290
		6/30/2009	11-12	X		-	-	-			-	-	590
		6/30/2009	13-14	X		-	-	-		-	_	-	207
	l	6/30/2009	15-16	Χ		-	-	-	- [_	-	<200

(-)	Not Analyzed	_
Š		Proposed Excavation Depths
		Liner

Table 1
COG Operating LLC
RJU #119 Flowline Spill
Eddy County, New Mexico

Area	Sample	Date	Sample	Soil S	Status	² T	PH (mg/kg) .	Benzene	Toluene !	Ethlybenzene		Chloride
	∰ ∫ ID 🐉	Sampled	Depth (ft)	In-Situ	Removed	DRO	GRO:	Total	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
Area of SB-3	AH-3	6/4/2009	0-1	X	14%	<50.0	31.6	31.6	Salp.		1. 沙室 1. 漢	4	2330 🖏
		<i>6</i> /4/2009	1-1.5	X			- 1	314. -			o (•) (•)	-	799
		6/4/2009	2-2.5	X		-	. "	120					468
	**************************************	6/4/2009	3-3.5	X		€ - %3,	(g. •) {						1350
		6/4/2009	4-4.5	X		1 - 2 . 3		30.2	1				2490
		6/4/2009	5-5.5	X			-	-	-			-	3540
		6/4/2009	6-6.5	X		-		-	-	-	-	-	4080
	SB-3	*****	5-6	×		_	-	_	-		-	-	1,430
		6/30/2009	8-9	X		-	-	-	_	-	-	-	2,880
		6/30/2009	1 1-12	Х		-	-	-	-	-	-	_	2,820
		6/30/2009	13-14	Х		-	-	-	•	-		-	2,250
		6/30/2009	15-16	X		-		-	-		-	-	1,980
		6/30/2009	20-21	Х		-	-	-			+	-	993
	-	6/30/2009	25-26	X		-	-	-	-	-	**	-	<200
			, , ° ,	, <u>, , , , , , , , , , , , , , , , , , </u>	28	`4.43	,	,				. 1 1 8	. Žiji
Area of SB-4	SB-4	6/30/2009	0-1	X		1160	736	1896	<0.0500	7.52	19.5	43.0	1,070
		6/30/2009	2-3	X		691	817	1508	<0.100	7.19	20.1	37.2	1,520
		6/30/2009	5-6	X		•	-		<0.0500	6.06	23.2	34.0	1,390
		6/30/2009	8-9	X		-	**		<0.0100	<0.0100	<0.0100	<0.0100	1,860
		6/30/2009	11-12	X		-		-	-	-	-	-	1,790
		6/30/2009	13-14	Х		•	_	-	-	-		_	966
		6/30/2009	15-16	X		_	-	-		~	-	+	518
		6/30/2009	20-21	Х			-	-	-	144	-	-	510
		6/30/2009	25-26	X		-	-	-	-		-	-	336
·				**************************************									

(-) Not Analyzed

Proposed Excavation Depths

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Table 1 COG Operating LLC RJU #119 Flowline Spill Eddy County, New Mexico

Aréa :	Sample	_≟答∖ Date →参	Sample	.∄ Soil §	Status 🦮 🚴	\$ 18 T	rPH (mg/kg) <u></u>	Benzene	Toluene	Ethlybenzene	Xylene	Chloride
	IĎ	Sampled	Depth (ft)	In-Situ	Removed	ÿ DRÔ.∕	GRO	Total	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
	4	(()	- 350 L.	,	Ng N	, <i>11</i> %;	K\$ 5	13.90 P. c	(A) (A)	1994	\$165 OB A	20.0	, , ,
Area of SB-5	AH-2	6/4/2009	0-1	- X		3570	2330	5900	7.55	74.1	72.5	\$ 3101 · 4	1250
		6/4/2009	1-1:5	X	11/12	4320	2830	7150	9.86	112	105	129	1670
	8 . 4 . 5	6/4/2009	2-2.5	X		1120	2370	3490	4.78	94.4	93.5	118	3250
	11.19.19.19	6/4/2009	3-3.5	X	S	/`. <u>.</u> .`		ili ser	\$££2 \(\)	-	\$ () <u>.</u>	-	4760
		6/4/2009	4-4.5	X	<u> </u>	, -	, - 333	7. ·	334 446	-			5240
		6/4/2009	5-5.5	X		/ ·	7	: <u>.</u> .	200		1. 35 2 3	•	5740
		6/4/2009	6-6.5	X		- 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1	14 0.		. .	· · · 7/2 # ·	1 . 1		5270
								100			. , 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1) \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	
	SB-5	. 6/30/2009	3-4 11	. X			a Me	100-	<0.0100	<0.0100	<0.0100 <i>i</i>	<0.0100 &	2,670
	, , , ,	6/30/2009	5-6	* X	5.77		2.0	1.111		10.10/1/201/201/201/201/201/201/201/201/201	3 3 34 8	}./ i§	1,790
		差元6/30/2009	8-9 🖔	图 X 、	1000			ib - 📽		然・アダ			2,950
		6/30/2009	11-12	X		•	4		徽 》、 -) <u> </u>			3,660
liner		6/30/2009	. 13-14	Х		-	-	激动。例		,	(30) 수		5,090
		6/30/2009	15-16	Х		-	-	-	-	•	-	_	5,090
		6/30/2009	20-21	Х		-	-	-	-	-	-		2,600
		6/30/2009	25-26	Χ		-	-	-	•	-	-	-	386
\$ 7 · .					to 4.2	S. 19	* <i>*</i>	\$ \$ \$	37.	美城	商款) 第5	(₹ <u>* </u>	14
Area of SB-6	SB-6	6/30/2009	0-1	X		- 1	÷.		***	3 W 3			1,380
		6/30/2009	2-3	X	18 19 19		in Link	- 40	·		<u> </u>		10,200
		6/30/2009	∵ 5-6	X		-	(<u>-</u>	Sec - 3%			· .	•	5,910
		6/30/2009	8-9	Χ	1938 E.S	-		- ·	-		1 1 2	-	6,300
		6/30/2009	11-12	`X		-	-	-	-	-	-		2,430
		6/30/2009	13-14	X		-	-	_	-		-	-	1,850
		6/30/2009	15-16	X		-		-		-	-	-	436
		6/30/2009	20-21	X		-	-	-	-		•	<u> </u>	421
		6/30/2009	25-26	X		-	-	~	-	-	-	-	389
		6/30/2009	30-31	Х		-	_	-	-		-		<200

(-)	N	ot	An	aly	Z	ed				
~	100	3 4	1		``	:	, (3	,	Proposed	Excavation	Deptn:
									Liner		

Table 1 COG Operating LLC RJU #119 Flowline Spill Eddy County, New Mexico

Area	Sample	Date	Sample	∛ Soil:\$	Status 🦽	ंकेश हिंस	PH (mg/kg) · 30, 25 °	Benzene	Toluene	Ethlybenzene	Xylene	Chloride
i jaran i	i ID	Sampled	Depth (ft)	In-Situ [®]	Removed	DRO	.5 GRO	Total.	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
Area of SB-7	ÀH-1	6/4/2009	0-1	X	为 . 1 · 200	6910	766	7676	<0.0500	2,80	22.2	34.9	1520
		6/4/2009	1-1.5	X		4140	₹1130	5270		11.			1690
		6/4/2009	2-2.5	X >4		<50.0	21.0	21.0		4 13	\$ - 1 - 1		675
	***	6/4/2009	3-3.5	X					1		\$ 1 3 - 3. 3		1280
		6/4/2009	4-4.5	X		` <u>.</u> `	ž.	<u> </u>	1				1440
		6/4/2009	5-5.5	X	39	- 1					** -3514		🗼 1450 📑
		<i>6</i> /4/2009	6-6:5	χ		_		1 k	Ŧ	10 14 14 15 15 15 15 15 15 15 15 15 15 15 15 15	第1. 第1章		994
									0.00	30.46	*		88 Av 19
liner	SB-7	6/30/2009	5-6	` இ X.		83 998	<u> </u>	(-)	<u>.</u> [3]				6,230
		6/30/2009	8-9	X		-	+	-	-	_			4,100
		6/30/2009	11-12	X		+	-	-	-	-	-	-	3,180
		6/30/2009	13-14	X		~	-	-	-	-	-	-	1,820
		6/30/2009	15-16	Х		-	-	-	-	-	-	-	1,590
		6/30/2009	20-21	X		_	-	-		-		-	1,180
		6/30/2009	25-26	X		~			-	-		-	952
		6/30/2009	30-31	X		-	-	-	-	-	-	**	309
8,41			/ 3 %					ikani .		 	31 x	. A.S.	,
Area of SB-8	SB-8	6/30/2009	0-1	e X	3,44	// ·		-	• 3	_		17:14:3	10,700
		6/30/2009	2-3	15 x		200 - /	-33	_	- 1				3,980
liner	1988	6/30/2009	5-6	X	2 Page 33	- A	,		100		A SA		3,120
		6/30/2009	8-9	Х		-	-	-	-	-	-	_	3,390
		6/30/2009	11-12	X		-	-	•	-	*	-	-	3,130
		6/30/2009	13-14	X		-	-	-	-	_	-	-	4,020
		6/30/2009	15-16	Х			-	-	-	-	-	-	5,120
		6/30/2009	20-21	X		-	-	· ·	-	-		_	4,480
		6/30/2009	25-26	X		-	-	-	-	-	-	-	275
		6/30/2009	30-31	Х		-	-		_	-		**	310

(-) Not Analyzed
Proposed Excavation Depths
Liner

Table 1 COG Operating LLC RJU #119 Flowline Spill Eddy County, New Mexico

Area €	Sample	Date Date	Sample	Soil S	Status	. 1,7	rpH (mg/kg)	Benzene	Toluene	Ethlybenzene	Xylene	Chloride
	in jin	Sampled	Depth (ft)	In-Situ	Removed	DRO	GRO'	Total	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
Area of SB-9	AH-6	6/4/2009	》於6-12-7	X	920A	<50.0	<1.00	<50.0	Salar.			N 4 7	6750
		6/4/2009	1-1.5	$\mathbb{R} \otimes \hat{\mathbf{x}} $		1 si + 1	. , ,	1843/5			2	1 . 43	8750
		6/4/2009	2-2.5	X ·	() () () () () () () () () ()		<u> </u>		2.4				1180
		6/4/2009	3-3.5	Х			- A	11.	-			7. S. #3. 78	1120
liner		6/4/2009	4-4.5	X		-	33.243	. Se å÷, aå:	``		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		3710
		6/4/2009	5-5.5	X		~	-	-	-	-	-	-	2850
		6/4/2009	6-6.5	X		-	-	_		-	-	-	2540
								<u> </u>					
	SB-9	6/30/2009	5-6	X		-	-	-	-		-	,	2,080
		6/30/2009	8-9	X				-	-	-		-	3,030
		6/30/2009	11-12	X		-		-	-	-		-	3,150
		6/30/2009	13-14	X		-	-	-		-	-		2,370
		6/30/2009	15-16	X		-		-	-	-	_	-	2,260
		6/30/2009	20-21	X		-			-	-	-	-	5,250
		6/30/2009	25-26	X		_	-	-	-	-	-		838
		6/30/2009	30-31	X		-	-	-	-	-	-	-	486
<u> </u>		× ,		· · ·					9	4 1 1 WY	Mar raid		
Area of SB-10	SB-10	6/30/2009	0-1.2.3	X				<u> </u>	. 2 .		2		<200
Alea Ol SD-10	35-10	6/30/2009	2-3					3.7 Table		1 713	7		527
		6/30/2009	5-6	X				33	- 1,0	6/2 (3/4)			1,150
		6/30/2009	8-9	X		···	<u> </u>	-	× - 1				2,360
liner		6/30/2009	11-12	X	Ž. v	20 g/200 m	S 27 E 28% S 17 E 28%	. .	-			- 3 3	§ 9,190 🖫
		6/30/2009	13-14	Х		-	-	-	-	-	-	-	7,050
		6/30/2009	15-16	X		~	-	-	-	-		+	4,920
		6/30/2009	20-21	X		-	*	_	-			<u>-</u>	3,620
	***************************************	6/30/2009	25-26	X		-	-	-	-	_	-	-	2,140
		6/30/2009	30-31	X		_	~	-	-	-	~	-	709
		6/30/2009	35-36	X		-	*	-	-	-	_	-	274
			1		1								

(-)	Not Analyzed			
1		Proposed	Excavation 0)epth:
		Liner		

Table 1
COG Operating LLC
RJU #119 Flowline Spill
Eddy County, New Mexico

Area	Sample	Date	Sample	Soil S	Status	. Т	PH (mg/kg) , .	Benzene	Toluene	Ethlybenzene	Xylene	.Chloride⊜
	´ ID ⊸	∞Sampled	Depth (ft)	In-Situ	Removed	DRO	GRO	Total	· (mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
Area of SB-11	AH-7	6/4/2009	. 0 -1	X	養命 (漢)	<50.0	6.14	6.14	% ′ <u>-</u>			•	8240
		6/4/2009	1-1.5	, X	後有 (4)	. + 1		\$. - \$	2	*	: 13 <u>-</u> 13	* - (6460
		6/4/2009	2-2.5	Х		i i i							9000
		6/4/2009	3-3.5	X			7	\$ \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\					: 🎇 9310 🖑 ·
			Water Control					80, 2				· ()	
	SB-11	6/30/2009	5-6	X		家:-	-	100 m	- 3.	. 1/45	*	. •	3,820
		6/30/2009	`` 8 <u>-</u> 9	Х		-	-			•			4,030
		6/30/2009	11-12	X		1.5	2 - Ann	7	- 1		- 2		9,070
		6/30/2009	13-14	X		-	-	-	-	-	-	-	4,930
		6/30/2009	15-16	X		-	-	-	-	=	~	-	3,750
		6/30/2009	20-21	X		-	-	-	-	_	_		1,330
		6/30/2009	25-26	X			-	-	-	-	-		310
		6/30/2009	30-31	X			-	-	-	-	-	*	284

Proposed Excavation Depths
Liner

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-14 Revised October 10, 200 Submit 2 Copies to appropriat District Office in accordanc with Rule 116 on bac side of for

Release Notification and Corrective Action

			Reit	ease Nounc	auoi		rrective A	CHOII				
						OPERA T			M Initial	Report		Final Rep
Name of Co							anicia Carrillo					
) Midlar	id, TX 79701			lo. 432-685-43					
Facility Nan	ne – KJ Ur	111 #119				гасшту гур	e- Injection We					
Surface Ow	ner			Mineral C)wner				Lease No	30-015	-0314	16
				LOCA	ATIO	N OF REI	LEASE					
Unit Letter	Section	Township	Range	Fect from the	North	/South Line	Feet from the	East/\	West Line		Cour	nty
0	27	178	29E	660	<u> </u>	South	1980		East		Edo	dy
			La	titude		Longitud	le					
				NAT	URE	OF RELI	EASE					
Type of Rele							Release-200bbls					
Source of Re	lease- Hole	in 2" injectio	n line			Date and H 5/30/09- 1	four of Occurrenc 2:00 pm	ce-	Date and F 5/30/09-12		cover	У
Was Immedia	ate Notice C		Yes [] No □ Not R	equired	If YES, To Mike Brate	Whom? ther NMOCD I	District	2			
By Whom? K	Lent Greenv				•	Date and F	Hour 6/1/09- 9:30	am				
Was a Water		hed?				If YES, Vo	olume Impacting t	the Wat	егсоurse.			
			Yes	⊠ No								
Tetra Tech v	ly 50' X 10 vill sample t	0' area in pas the spill site a	ture was a rea to del	iffected, All liquid	e contai	nination from	he area is being of the release and w					lan to the
regulations al public health should their o	I operators or the envir operations h nment. In a	are required to conment. The ave failed to ddition, NMO	o report a acceptan adequately OCD accep	nd/or file certain in ce of a C-141 report investigate and it	release r ort by th remedia	notifications a ne NMOCD m te contaminat	knowledge and und perform correct parked as "Final Right to that pose a thing the operator of	ctive ac Report" reat to g	tions for rele does not reli- ground water	ases which eve the ope , surface w	n may erator rater, l	endanger of liability human healt
		· ·	_			······	OIL CON	SERV	VATION	DIVISIO	<u>NC</u>	
Signature: Printed Name	: Kanicia (Carrillo	-			Approved by	District Supervis	sor:				
Title: Regula		***************************************				Approval Da	ite:		Expiration I	Date:	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	
E-mail Addre	ss: kcarrill	o@conchores	sources.co	m		Conditions o				Attached		
Date: 6/3/	'09		Phone: 4	32-685-4332						Attached	ل…ا د	
Attach Addit	ional Shee							***************************************				· · · · · · · · · · · · · · · · · · ·

Water Well Data Average Depth to Groundwater (ft) COG - RJU Unit #119 Eddy County, New Mexico

	16	South	- 2	28 East			16 S	outh	2	9 East			16 9	South	3	0 East	
	5	4	3	2	1	6	5	4	3	2	1	6	5	4	3	2	1
,	8	9	10	11	12	7	8	9	10	11	12	7	8	9	10	11	12
8	17	16	15	14	13	18	17	16	15	14	13	18	17	16	15	14	13
19	20	21	22	23	24	19	20	21	22	23	24	19	20	21	22	23	24
0	29	28	27	26	25	110 30	29	28	27	26	25	30	29	28	27	26	25
31	32	33	34	35	36	31	32	33	34	35	36	31	32	33	34	35	36
	17 :	South	ل_	28 East		<u> </u>	17 S	outh		9 East			17 :	South		30 East	
8	5	4	3	2	1	6	5	4	3	2	1	6	5	4	3	2	1
7	8	9 .	10	11	12	7	8	9	10	11	12	7	8	9	10	11	12
18	17	16	15	14	13	18	17	16	15	14	13	18	17	16	15	14	13
19	20	21	22	23	24	19	20	21	22 80	23	24	19	20	21	22	23	24
30	29	28	27	26	25	30	29 210	28	27 SITE	26	25	30	29	28	27	26	25
31	32	33	34	35	36	31	32	33	34	35 153	36	31	32	33	34	35	36
	18	South		28 East		<u> </u>	18 S	outh	2	9 Easi		-	18	South		30 East	
6	5	4	3	2	1	6	5	4	3	2	1	6	5	4	3	2	T 1
7	8	9	10	11	12	7	8	9	10	11	12	7	8	9	10	11	12
18	17	16	15	14	13	18	17	16	15	14	13	18	17	16	15	14	13
9	20	21	22	23	24	19	20	21	22	23	24	19	20	21	22	23	24
30	29	28	27	26	25	30	29	28	27	26	25	30	29	28	27	26	25
31	32	33	34	35	36	31	32	33	34	35	36	31	32	33	34	35	36

- 88 New Mexico State Engineers Well Reports
- 105 USGS Well Reports
- 90 Geology and Groundwater Conditions in Southern Lea, County, NM (Report 6) Geology and Groundwater Resources of Eddy County, NM (Report 3)
- 34 NMOCD Groundwater Data
- 123 Field water level
- 143 NMOCD Groundwater map well location



