



January 8, 2016

Mr. Stan Spencer  
Colorado Oil and Gas Conservation Commission  
Environmental Protection Specialist  
Northwest Region  
Rifle, CO 81650

RE: Notification of Completed Remediation  
Love Ranch 8 Produced Water Release  
Form 19 DOC# 400941695  
Facility ID# 149012

Dear Mr. Spencer,

XTO Energy (XTO) completed remediation of the Love Ranch 8 Produced Water Release on November 24, 2015. XTO is submitting the COGCC Table 910-1 compliance confirmation data from the area of the release including background pH data as indicated on the attached Vicinity Map (See Table 1).

The release area was sampled for COGCC Table 910-1 compliance with results below standards with the exception of pH (9.42). Background pH results in the area ranged from 8.94 to 9.72, the pH from the release area is within the background level range. (See Table 1 and Vicinity Map).

XTO Energy is requesting closure and Notice of Completion for the Form 19 Spill Report DOC# 400941695, Facility ID 149012. If you should have any questions or comments please feel free to contact me at your earliest convenience (970) 675-4122.

Respectfully,



Jessica Dooling

Piceance EH&S Supervisor

[Jessica\\_dooling@xtoenergy.com](mailto:Jessica_dooling@xtoenergy.com)

Enclosures:

Table 1: Lab Summary

Vicinity Map Including Background pH Results

**Table 1**  
**Location: Love Ranch 8 Produced Water Release**  
**Lab Summary**

Last update 12/10/2015

Analytical Parameter	Spill	PWDD Release Area Background pH Sample Data												Love Ranch 8 Background As					COGCC	Maximum based on Background
(with units)	Produced Water Spill	Northeast				North Center	Northwest	Southeast		South Center		Southwest							Table 910-1 Concentration Levels	
		#1	#2	#3	#4	#4	#4	#1	#2	#1	#2	#1	#2	BG - 1	BG - 2	BG - 3	BG - 4	BG - 5		
Accutest Job # & Sample Date	D77641 (11/22/15)	D43399 (2/8/13)				D43396 (2/8/13)	D43398 (2/8/13)	D43397 (2/8/13)						D20760 (1/27/11)					-	-
Sample type (Composite/Discrete)	C	C	C	C	C	C	C	C	C	C	C	C	C	D	D	D	D	D	-	-
TPH (GRO) (mg/Kg)	31.9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPH (DRO) (mg/Kg)	51.8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPH (GRO + DRO) (mg/Kg)	84	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	500	-
Benzene (mg/Kg)	0.0059	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.170	-
Toluene (mg/Kg)	0.206	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	85	-
Ethylbenzene (mg/Kg)	0.0426	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	100	-
Xylenes (total) (mg/Kg)	1.06	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	175	-
Acenaphthene (mg/Kg)	ND	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1000	-
Anthracene (mg/Kg)	ND	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1000	-
Benzo(A)anthracene (mg/Kg)	ND	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.22	-
Benzo(B)fluoranthene (mg/Kg)	0.0032	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.22	-
Benzo(K)fluoranthene (mg/Kg)	ND	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.2	-
Benzo(A)pyrene (mg/Kg)	ND	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.022	-
Chrysene (mg/Kg)	0.0050	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	22	-
Dibenzo(A,H)anthracene (mg/Kg)	ND	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.022	-
Fluoranthene (mg/Kg)	0.0123	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1000	-
Fluorene (mg/Kg)	ND	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1000	-
Indeno(1,2,3,C,D)pyrene (mg/Kg)	ND	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.22	-
Naphthalene (mg/Kg)	0.0649	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	23	-
Pyrene (mg/Kg)	0.0087	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1000	-
Electrical Conductivity (mmhos/cm)	2.310	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4	-
Sodium Adsorption Ratio (SAR)	10.7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	12	-
pH	9.42	9.72	9.65	9.21	9.30	9.16	9.17	9.22	9.09	9.73	9.12	8.94	9.34	-	-	-	-	-	6-9	-
Arsenic (mg/kg)	6.8	-	-	-	-	-	-	-	-	-	-	-	-	13.5	15.9	9.8	5.5	4.2	0.39	17.5
Barium (mg/kg)	430	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	15000	-
Cadmium (mg/kg)	<1.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	70	-
Chromium (III) (mg/Kg)	15.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	120000	-
Chromium (VI) (mg/Kg)	<1.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	23	-
Copper (mg/kg)	14.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3100	-
Lead (inorganic) (mg/kg)	<5.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	400	-
Mercury (mg/kg)	<0.089	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	23	-
Nickel (mg/kg)	27.3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1600	-
Selenium (mg/kg)	<5.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	390	-
Silver (mg/kg)	<3.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	390	-
Zinc (mg/kg)	35.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	23000	-
% Solids	91.7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

## Notes:

- 1) ND = not detectable to the laboratory detection limit.
- 2) Results highlighted in yellow exceed Table 910-1 concentration levels. Results highlighted in Gray exceed Table 910-1, but are below background levels.
- 3) "-" indicates no analysis.
- 4) Background Arsenic sample results are from the Love Ranch 8 location, located North of the spill location



AERIAL PHOTOGRAPHY FROM GOOGLE EARTH PRO AND IS DATED OCTOBER 11, 2015



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PREPARED FOR: XTO ENERGY

**PICEANCE CREEK  
LOVE RANCH 8 SPILL  
VICINITY MAP**

Designed TH	Drawn DC	Checked TH
Date: 12/10/15		
Scale: 1" = 250'		
Project No: PCU		
<b>FIGURE 1</b>		