

From: Mark Larson
To: [Billings, Bradford, EMNRD](#); [Yu, Olivia, EMNRD](#)
Cc: "[Askin, David](#)"; "[Lansdown, Scott](#)"; "[Hutton, Nina](#)"; "[Keith Underwood@xtoenergy.com](#)"; "[Earl_Richardson@xtoenergy.com](#)"; "[Donald, Patricia](#)"
Subject: RE: 1RP-4789 - Interim Delineation Report, EMSU B Produced Water Release, XTO Energy, Inc., Lea County, New Mexico, September 21, 2017
Date: Tuesday, October 10, 2017 7:54:17 PM

Dear Bradford,

Thank you for approving the installation of monitoring wells screens near top of the lower confining unit (Dockum Group) rather than above and below the groundwater surface observed during drilling. This will allow for assessing vertical stratification of chloride near the lower confining unit. This is also supported by the fact that the release is produced water with no visible hydrocarbons so the presence of a product layer near the air/groundwater interface is unlikely. Please contact me if you have questions.

Respectfully,
Mark Larson

From: Yu, Olivia, EMNRD [mailto:Olivia.Yu@state.nm.us]
Sent: Thursday, October 05, 2017 12:10 PM
To: Mark Larson; Billings, Bradford, EMNRD
Cc: 'Askin, David'; 'Lansdown, Scott'; 'Nina_Hutton@xtoenergy.com'; 'Timothy_Friesenhahn@xtoenergy.com'; 'Paschal, David'; 'James_Fort@xtoenergy.com'; 'McMinn, Dudley'; 'Patricia_Donald@xtoenergy.com'
Subject: RE: 1RP-4789 - Interim Delineation Report, EMSU B Produced Water Release, XTO Energy, Inc., Lea County, New Mexico, September 21, 2017

Dear All:

FYI, the approved document for 1RP-4789 is uploaded to OCD online. File was rejected by the recipient's server.

Thanks,
Olivia

From: Yu, Olivia, EMNRD
Sent: Thursday, October 5, 2017 11:03 AM
To: 'Mark Larson' <Mark@laenvironmental.com>; Billings, Bradford, EMNRD <Bradford.Billings@state.nm.us>
Cc: 'Askin, David' <David_Askin@xtoenergy.com>; 'Lansdown, Scott' <Scott_Lansdown@xtoenergy.com>; 'Nina_Hutton@xtoenergy.com' <Nina_Hutton@xtoenergy.com>; 'Timothy_Friesenhahn@xtoenergy.com' <Timothy_Friesenhahn@xtoenergy.com>; 'Paschal, David' <David_Paschal@xtoenergy.com>; 'James_Fort@xtoenergy.com' <James_Fort@xtoenergy.com>; 'McMinn, Dudley' <Dudley_McMinn@xtoenergy.com>; 'Patricia_Donald@xtoenergy.com' <Patricia_Donald@xtoenergy.com>
Subject: RE: 1RP-4789 - Interim Delineation Report, EMSU B Produced Water Release, XTO Energy, Inc., Lea County, New Mexico, September 21, 2017

Dear Mr. Larson:

NMOCD approves of the proposed second stage of delineation and establishment of the groundwater monitoring wells for 1RP-4789. Please note that Figure 10 only have 11 soil sampling locations demarcated.

Also, please be advised that NMOCD prefers 1) the 20 ft. length of the groundwater monitoring wells be placed equally above and below the air-water interface; and 2) top of casing marked for depth to groundwater determination, to which the water table can be measured to 0.01 ft.

Thanks,

Olivia Yu
Environmental Specialist
NMOCD, District I
Olivia.yu@state.nm.us
575-393-6161 x113

OCD approval does not relieve the operator of liability should their operations fail to adequately investigate and remediate contamination that may pose a threat to ground water, surface water, human health or the environment. In addition, OCD approval does not relieve the operator of responsibility for compliance with any other federal, state, local laws and/or regulations.

From: Mark Larson [<mailto:Mark@laenvironmental.com>]
Sent: Tuesday, September 26, 2017 5:35 PM
To: Yu, Olivia, EMNRD <Olivia.Yu@state.nm.us>; Billings, Bradford, EMNRD <Bradford.Billings@state.nm.us>
Cc: 'Askin, David' <David_Askin@xtoenergy.com>; 'Lansdown, Scott' <Scott_Lansdown@xtoenergy.com>; 'Nina_Hutton@xtoenergy.com' <Nina_Hutton@xtoenergy.com>; 'Timothy_Friesenhahn@xtoenergy.com' <Timothy_Friesenhahn@xtoenergy.com>; 'Paschal, David' <David_Paschal@xtoenergy.com>; 'James_Fort@xtoenergy.com' <James_Fort@xtoenergy.com>; 'McMinn, Dudley' <Dudley_McMinn@xtoenergy.com>; 'Patricia_Donald@xtoenergy.com' <Patricia_Donald@xtoenergy.com>
Subject: Re: 1RP-4789 - Interim Delineation Report, EMSU B Produced Water Release, XTO Energy, Inc., Lea County, New Mexico, September 21, 2017

Dear Olivia and Bradford,

This message is submitted to the NMOCD on behalf of XTO Energy, Inc. (XTO) to submit the interim delineation report for 1RP-4789. Please use the link below to download the report. The report presents the results of electromagnetic (EM-31 and EM-34) terrain conductivity surveys to qualitatively assess the extent of the produced water release. The report also presents the additional measures to delineate the release. Your approval of the plan is requested. Please contact

Nina Hutton with XTO at (817) 885-2274 or Nina_Hutton@xtoenergy.com or me if you have questions.

Link: <https://files.acrobat.com/a/preview/ab4153db-3cf7-4c17-910d-24f3ef31354b>

Respectfully,

Mark J. Larson, P.G.
President/Sr. Project Manager
507 N. Marienfeld St., Suite 205
Midland, Texas 79701
Office – 432-687-0901
Cell – 432- 556-8656
Fax – 432-687-0456
mark@laenvironmental.com



“Serving the Permian Basin Since 2000”

From: Yu, Olivia, EMNRD [<mailto:Olivia.Yu@state.nm.us>]
Sent: Friday, August 25, 2017 5:04 PM
To: Mark Larson; Billings, Bradford, EMNRD; Griswold, Jim, EMNRD
Cc: 'Hutton, Nina'; 'Askin, David'
Subject: RE: 1RP-4789 - Release Delineation Plan, EMSU B Produced Water Release, XTO Energy, Inc., Lea County, New Mexico, August 22, 2017

Dear Mr. Larson:

NMOCD approves of the proposed delineation plan and proposed installation of a temporary groundwater monitoring well for 1RP-4789. Please be advised that subsequent to data from EM surveys, soil bores, and potentially more permanent groundwater monitoring wells, the proposed placement of the temporary groundwater monitoring well for background assessment may be altered or additional wells may be necessary to evaluate upgradient hydrology.

Please see the attachment for your records.

Thanks,

Olivia Yu
Environmental Specialist
NMOCD, District I
Olivia.yu@state.nm.us
575-393-6161 x113

OCD approval does not relieve the operator of liability should their operations fail to adequately investigate and remediate contamination that may pose a threat to ground water, surface water, human health or the environment. In addition, OCD approval does not relieve the operator of responsibility for compliance with any other federal, state, local laws and/or regulations.

From: Mark Larson [<mailto:Mark@laenvironmental.com>]
Sent: Tuesday, August 22, 2017 4:04 PM
To: Yu, Olivia, EMNRD <Olivia.Yu@state.nm.us>; Billings, Bradford, EMNRD <Bradford.Billings@state.nm.us>; Griswold, Jim, EMNRD <Jim.Griswold@state.nm.us>
Cc: 'Hutton, Nina' <Nina_Hutton@xtoenergy.com>; 'Askin, David' <David_Askin@xtoenergy.com>
Subject: Re: 1RP-4789 - Release Delineation Plan, EMSU B Produced Water Release, XTO Energy, Inc., Lea County, New Mexico, August 22, 2017

All,

Larson & Associates, Inc. (LAI), on behalf of XTO Energy, Inc. (XTO) submits the attached plan to delineate the extent of a produced water release (1RP-4789) from a 10 inch cement line steel line at the Eunice Monument South Unit (EMSU) B in Lea County, New Mexico. LAI, on behalf of XTO, requests approval to begin the delineation according to the attached plan. Please contact Nina Hutton with XTO at Paladin at (817) 885-2274 or Nina_Hutton@xtoenergy.com or me if you have questions.

Respectfully,

Mark J. Larson, P.G.
President/Sr. Project Manager
507 N. Marienfeld St., Suite 205
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Cell – 432- 556-8656
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