

Bratcher, Mike, EMNRD

From: Bratcher, Mike, EMNRD
Sent: Tuesday, November 12, 2013 11:55 AM
To: 'Amy Ruth'
Cc: Wall, Fred; Michael Patterson
Subject: RE: 2RP-1873 Linn Energy Turner A #45

Reference: Linn Operating * Turner A 45 * 30-015-28890 * C-19-17s-31e * Eddy County, New Mexico
NMOCD Tracking number: 2RP-1873 * Date of release: 8/24/13

Amy,

Your proposal for remediation of the above referenced release is approved. Like approval by BLM required for Federal sites.

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.

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From: Amy Ruth [<mailto:aruth@diversifiedfsi.com>]
Sent: Tuesday, November 05, 2013 10:35 AM
To: Bratcher, Mike, EMNRD
Cc: Wall, Fred; Michael Patterson
Subject: 2RP-1873 Linn Energy Turner A #45

Hi Mike,

I had previously submitted a work plan for this site with an initial photo of the leak. We have completed delineating the leak area, and I have enclosed a site diagram, photos, 2 lab reports, and our groundwater search for your reference. I have provided some detail below and would like to propose an excavation to address this leak and backfill with compacted caliche if that is acceptable to you via email.

The site was excavated to 1' bgs to keep the source from percolating. The diagram shows an older view of the caliche pad that was available from Google Earth. The site looks very different now. Apache Corporation has expanded the caliche pad and installed a well immediately south of the Turner A #45, and in fact, shares the new caliche pad with that well. This is more apparent in the included photos. The leak occurred on top of and well within the boundaries of this new caliche pad.

For SP2 and SP4, the delineation field data shows that the numbers are reasonably low at 2'. Chloride at SP1 remains near 1000 mg/kg at 3' though it does show a downward trend with depth. SP3 fluctuates some before showing the

same downward trend to complete at 8' bgs, though the field data does not exceed 1049 mg/kg within the lower profile. Our groundwater study for the surrounding township/ranges averages 236 ft for qualifying wells. The NMOCD groundwater trend map extrapolates depth to groundwater at 325 to 350 ft bgs.

Due to depth of groundwater and the depth of impact at the site, I would like to propose a 3' excavation in the vicinity of SP1 and a 2' excavation across the remaining leak area. Please call me with any questions and suggestions at your convenience.

Thank you!

Amy C. Ruth

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"Nothing will work unless you do." -Maya Angelou

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Bratcher, Mike, EMNRD

From: Microsoft Outlook
To: Amy Ruth; Wall, Fred; Michael Patterson
Sent: Tuesday, November 12, 2013 11:56 AM
Subject: Relayed: RE: 2RP-1873 Linn Energy Turner A #45

Delivery to these recipients or groups is complete, but no delivery notification was sent by the destination server:

Amy Ruth (aruth@diversifiedfsi.com)

Wall, Fred (BWall@linnenergy.com)

Michael Patterson (mpatterson@diversifiedfsi.com)

Subject: RE: 2RP-1873 Linn Energy Turner A #45