

**From:** Patterson, Heather, EMNRD  
**To:** ["Sheldon Hitchcock"; Tucker, Shelly](#)  
**Cc:** [Chris Morphew](#); [David Adkins](#); [Bayliss, Randolph, EMNRD](#); [Bratcher, Mike, EMNRD](#); [David Adkins](#)  
**Subject:** RE: Dakota Resources- Trigg Fed #1 SWD Remediation (2RP-1814)  
**Date:** Tuesday, August 02, 2016 9:33:00 AM  
**Attachments:** image001.png  
image002.png

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**RE: Dakota Resources \* Trigg Fed #1 SWD \* 30-015-25006 \* 2RP-1814**

Sheldon,

Thank you for getting the vertical delineation. You are approved to proceed with your remediation work plan.

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.

If you have any questions or concerns, and for notification, please contact me.

Heather Patterson  
Environmental Specialist  
NMOCD District II  
Office (575)748-1283 ext.101  
Cell (575)703-0228

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**From:** Sheldon Hitchcock [mailto:slhitchcock@talonlpe.com]  
**Sent:** Friday, July 15, 2016 1:11 PM  
**To:** Tucker, Shelly; Patterson, Heather, EMNRD  
**Cc:** Chris Morphew; David Adkins; Bayliss, Randolph, EMNRD; Bratcher, Mike, EMNRD; David Adkins  
**Subject:** RE: Dakota Resources- Trigg Fed #1 SWD Remediation (2RP-1814)

Good afternoon all,

As you know, we drilled the Trigg again this past Friday. We advanced the boring to 50-feet below ground surface (BGS). I took a split spoon sample at 10-feet BGS to insure that we haven't had vertical movement of hydrocarbons since the last time we drilled in 2014. I also took samples at 40-feet BGS (the TD of the last boring) and at 50-feet BGS. Both of these samples were below NMOCD delineation requirements of 250 mg/kg of total chlorides (shown in the table below).

Sample ID	Depth (feet)	BTEX (mg/kg)	Chlorides (mg/kg)	TPH (mg/kg) GRO	TPH (mg/kg) DRO
BH-1	10	ND	3000	ND	34.1
BH-1	40	--	224	--	--
BH-1	50	--	192	--	--

(--) Analyte Not Tested

(ND) Analyte Not Detected

Given the results of the vertical delineation we would like permission to move forward with the proposed remediation strategy discussed on June 20, 2016.

- The area in the battery around the infrastructure will be excavated to a depth of 2-feet BGS.
- Per NMOCD stipulations the area in the vicinity of S-4/BH-1 will be excavated as deeply as safely feasible and confirmation sidewall samples will be collected and analyzed for TPH and BTEX.
- The area on location in the vicinity of sample location S-5 will be excavated to a depth of 4-feet BGS. Sidewall soil samples will be taken and analyzed using field chloride titrations to insure that the horizontal extent of the chloride impacts are fully addressed.
- All of the excavated material will be hauled to an NMOCD approved solid waste disposal facility.
- The excavation will be backfilled with caliche upon approval by NMOCD and BLM to do so.

Please let me know if you have any questions or concerns.

Respectfully,

**Sheldon Hitchcock**

**Project Manager**

Office: 575.746.8768

Direct: 575.616.4021

Cell: 575.689.5198

Fax: 575.746.8905

Emergency: 866.742.0742

Web: [www.talonlpe.com](http://www.talonlpe.com)



**From:** Tucker, Shelly [<mailto:stucker@blm.gov>]

**Sent:** Tuesday, June 21, 2016 9:42 AM

**To:** Patterson, Heather, EMNRD <[Heather.Patterson@state.nm.us](mailto:Heather.Patterson@state.nm.us)>

**Cc:** Sheldon Hitchcock <[shitchcock@talonlpe.com](mailto:shitchcock@talonlpe.com)>; Chris Morphew <[chrism@dakotares.com](mailto:chrism@dakotares.com)>; David Adkins <[dadkins@talonlpe.com](mailto:dadkins@talonlpe.com)>; Bayliss, Randolph, EMNRD <[Randolph.Bayliss@state.nm.us](mailto:Randolph.Bayliss@state.nm.us)>; Bratcher, Mike, EMNRD <[mike.bratcher@state.nm.us](mailto:mike.bratcher@state.nm.us)>

**Subject:** Re: Dakota Resources- Trigg Fed #1 SWD Remediation (2RP-1814)

**BLM concurs with NMOCD stipulations.**

If you have any questions or concerns, please do not hesitate to contact me.

Sincerely,

*Shelly J Tucker*

Environmental Protection Specialist  
Bureau of Land Management

620 E. Greene St  
Carlsbad, NM 88220

575.234.5905 - Direct  
575.361.0084 - Cellular

[stucker@blm.gov](mailto:stucker@blm.gov)



The **BLM acceptance/approval does not** relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that may pose a threat to groundwater, surface water, human health or the environment or if the location fails to reclaim properly. In such an event that the location does not revegetate, or future issues with contaminants are encountered, the operator will be asked to address the issues until the contaminant issues are fully mitigated and the location is successfully reclaimed. In addition, BLM approval does not relieve the operator of responsibility for compliance with any other federal, state or local laws/regulations.

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On Mon, Jun 20, 2016 at 12:18 PM, Patterson, Heather, EMNRD  
<[Heather.Patterson@state.nm.us](mailto:Heather.Patterson@state.nm.us)> wrote:

**RE: Dakota Resources \* Federal Trigg #1 \* 30-015-25006 \* 2RP-1814**

**Sheldon,**

**You are approved to proceed at this location with the following exceptions:**

- **Your proposal for the area of S-5 is approved;**
- **I will accept field titration on your sidewall confirmations;**
- **The OCD will require a deeper excavation at S-4 along with sidewall confirmations;**
- **Due to possibly shallow groundwater and the age of sampling, an additional vertical delineation will be necessary at S-4;**
- **Your proposal to excavate 2' around the production tanks is approved;**
- **Like approval by BLM is required.**

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.

If you have any questions or concerns, and for notification, please contact me.

Heather Patterson  
Environmental Specialist  
NMOCD District II  
Office (575)748-1283 ext.101  
Cell (575)703-0228

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**From:** Sheldon Hitchcock [mailto:[shitchcock@talonlpe.com](mailto:shitchcock@talonlpe.com)]  
**Sent:** Tuesday, June 14, 2016 9:52 AM  
**To:** Patterson, Heather, EMNRD; Tucker, Shelly; Bratcher, Mike, EMNRD  
**Cc:** Chris Morphew; David Adkins  
**Subject:** Dakota Resources- Trigg Fed #1 SWD Remediation (2RP-1814)

Good Morning Everyone,

As you are aware we are planning on beginning the Trigg remediation. I have attached the initial work plan, the analytical data from the boring we drilled to vertically delineate chlorides, and the emails detailing the revised scope of work approved by Mike and Jeff.

At this time I would like to have your input on how you wish to proceed. Ground water in the project vicinity is approximately 69-feet below ground surface (BGS). We had chlorides, as of June 2014 fully delineated at 40-feet BGS. Given the remaining distance to ground water (approximately 29-feet) and the fact that boring was inside of the bermed battery I would like to continue with the approved scope of work from 2014 within the battery. The area in the vicinity of sample location S-5 (on location) will be excavated to 4-feet BGS as originally approved however due to the age of the sampling events we will take sidewall samples to insure that we removed any chloride impacts that moved laterally.

What are your thoughts and/or comments?

Respectfully,

**Sheldon Hitchcock**

**Project Manager**

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Direct: 575.616.4021

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