



STATE OF  
COLORADO

EnviroScan - DNR, OGCC <dnr\_ogcc.enviroscan@state.co.us>

## Fwd: FW: revisions

1 message

**Fischer - DNR, Alex** <alex.fischer@state.co.us>  
 To: OGCC EnviroScan - DNR <dnr\_ogcc.enviroscan@state.co.us>  
 Cc: Kris Neidel - DNR <kris.neidel@state.co.us>

Thu, Oct 6, 2016 at 6:43 AM

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Thanks!

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**Alex Fischer, P.G.**

Environmental Supervisor, Western Colorado



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| [alex.fischer@state.co.us](mailto:alex.fischer@state.co.us) [www.colorado.gov/cogcc](http://www.colorado.gov/cogcc)

----- Forwarded message -----

From: **Kristen Stocks** <[KStocks@entekenergy.com](mailto:KStocks@entekenergy.com)>

Date: Wed, Oct 5, 2016 at 1:42 PM

Subject: FW: revisions

To: "Fischer - DNR, Alex" <[alex.fischer@state.co.us](mailto:alex.fischer@state.co.us)>

Cc: "Neidel - DNR, Kris" <[kris.neidel@state.co.us](mailto:kris.neidel@state.co.us)> ([kris.neidel@state.co.us](mailto:kris.neidel@state.co.us))" <[kris.neidel@state.co.us](mailto:kris.neidel@state.co.us)>

Alex, I wanted to call you in a few minutes to discuss this summary table and the below information provided by our new environmental company. Please call me if you have a minute before I get you called.

Thank you.

Kristen W. Stocks

Sr. Staff Engineer – Entek Energy

Cell: [307 200 1930](tel:307.200.1930)

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**From:** Wesley Hill [mailto:[wdhworkout@gmail.com](mailto:wdhworkout@gmail.com)]  
**Sent:** Wednesday, October 05, 2016 12:52 PM  
**To:** Kristen Stocks  
**Subject:** Re: revisions

Kristen,

Attached is the revised Table 1 - TPH Soil Sample Summary that includes more details regarding how the TPH values were derived. According to the Organics Lab Manager at Inter Mountain Labs, they do not typically see a request for two similar Gasoline Range Organics (GRO) and Diesel Range Organics (DRO) tests for the same soil sampling project. The lab reported two similar analyses for the GRO components (Gasoline Range Organics (nC6-nC10) and Unadjusted TVPH (nC5-nC12)) and two similar for the DRO components (Diesel Range Organics (nC10-nC32) and Total Extractable Hydrocarbons (nC8-nC40)). As you can see, there are overlapping carbon ranges for both GRO results and DRO results. The lab suggested that we should only use one of the reported GRO values and one of the reported DRO values to come up with the total petroleum hydrocarbon (TPH) value. So in Table 1, we added the GRO (nC5-nC12) value and the DRO (nC8-nC40) value together to come up with the TPH value. Only one sample (Sample # S1411001-010 from Boring #3 at a 3-6' depth) had a TPH value (10 mg/kg GRO + 880 mg/kg DRO = 890 mg/kg TPH) that was reported above the COGCC's cleanup standard (500 mg/kg).

The lab noted that you would be overestimating the TPH value if you had added both GRO values (nC6-nC10 and nC5-nC12) and both DRO values (nC10-nC32 and nC8-nC40) together. That's what the COGCC may have done to come up with those elevated levels they identified down to a 12' depth.

I'm available this afternoon or most of the day tomorrow if you want to conference me in with the COGCC.

Thanks,

Wes

On Wed, Oct 5, 2016 at 11:16 AM, Kristen Stocks <[KStocks@entekenergy.com](mailto:KStocks@entekenergy.com)> wrote:

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**Alex Fischer, P.G.**

**Environmental Supervisor, Western Colorado**



**COLORADO**  
Oil & Gas Conservation  
Commission  
Department of Natural Resources

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## 2 attachments



**Table 1 - TPH Soil Sample Summary\_rev.pdf**  
20K



**TPH Soil Sample Summary\_rev.xlsx**  
14K