



STATE OF  
COLORADO

Lujan - DNR, Carlos <carlos.lujan@state.co.us>

Facility ID 149020

Location ID 414907

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## Wasatch Monitoring Well Update 11/29/16

1 message

**Dwayne Knudson** <dknudson@ursaresources.com>

Tue, Nov 29, 2016 at 4:39 PM

To: Alex Fischer - DNR <alex.fischer@state.co.us>, "Lujan - DNR, Carlos" <carlos.lujan@state.co.us>

Cc: Rob Bleil <rbleil@ursaresources.com>

Alex/Carlos,

I wanted to provide an update to where we are at with the pond and water sampling. We received the results from both the pond leak detection and monitoring well biogenic/thermogenic samples.

Results are all summarized in the attached lab report (Job 33299 – HRL) and Table. As you can see the methane from the monitoring well appears to be thermogenic in nature. While further investigation is necessary to verify, the lab narrative mentioned this is similar to other dissolved gas samples observed in the area. It is also worthy of noting that Methane is the only constituent detected. There were no hydrocarbons or BTEX in the well – both of which are noted in the pond.

Our next step is to proceed with fingerprint analysis of the methane. This involves a isotopic analysis which is a specific item only accomplished by a couple labs. We will use Isotech Laboratories, Inc. out of Champaign, IL. We are collecting the samples today of the pond. Once the data is available, we will be able to compare this to the well samples.

If you have other thoughts on this path forward please let me know.

Regards,

Dwayne

### Dwayne Knudson

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**2 attachments**



**Job 33299-HRL.PDF**  
658K



**Wastach Water Well - Data Tracking Spreadsheet 11.29.16.xls**  
602K