



# North Dakota Geological Survey

Edward C. Murphy - State Geologist

Department of Mineral Resources

Lynn D. Helms - Director

North Dakota Industrial Commission

[www.state.nd.us/ndgs](http://www.state.nd.us/ndgs)

February 28, 2017

Geri Schmaltz, Administrative Officer  
N.D. Public Service Commission  
600 E. Boulevard Avenue  
Bismarck, ND 58505-0480



Re: Targa Badlands, LLC 8-inch Crude Pipeline Conversion Project – McKenzie Co.  
Case No. PU-16-695

The North Dakota Geological Survey appreciates the notification and opportunity to review and provide comment on the proposed pipeline conversion project in McKenzie Co. The route of the existing crude oil gathering pipeline, which is proposed for conversion, was reviewed on February 10, 2017.

Regarding the proposed pipeline conversion project, it should be noted that landslides have been mapped in the vicinity of the existing pipeline route and within the 0.5 mile analysis area (Murphy, 2004). Even though it appears that there have not been any mapped landslides along the actual pipeline route, an enhanced level of monitoring and periodic inspection of this line may be warranted.

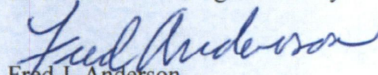
A downloadable landslide map and associated GIS shapefiles for the Watford City 1:100,000 scale quadrangle and more detailed 1:24,000 scale landslide maps can be found on our website at:

[https://www.dmr.nd.gov/ndgs/landslides/WatfordCity/100k/wfdc\\_100k\\_1.pdf](https://www.dmr.nd.gov/ndgs/landslides/WatfordCity/100k/wfdc_100k_1.pdf)

or by contacting our offices directly at (701) 328-8000.

Sincerely,

North Dakota Geological Survey:

  
Fred J. Anderson  
Geologist

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Exhibit 5 - Letter ND Geo. Survey to PSC, 2-28-2017

Targa Badlands LLC

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