



**WYOMING
GROUNDWATER, LLC**

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July 30, 2018

Mr. Darren Parkin
Water Management Specialist
Community Development Department
City of Laramie
P.O. Box C
Laramie, WY 82073

Re: Technical Review of *Site Specific Investigation: Blake Property, Engineering Associates, June 29, 2018*

Dear Mr. Parkin:

The subject property is included in the Aquifer Protection Overlay (APO) Zone as a result of Enrolled Ordinance No. 1527 of the Laramie Municipal Code. As such, a Site Specific Investigation (SSI) is required and has been prepared by Engineering Associates (EA) for the subject property. As requested by the City of Laramie, Wyoming Groundwater herein provides a technical review of the above referenced SSI report. The technical review focuses on the accuracy of report information regarding subject property geology/hydrogeology and provides a professional opinion regarding Engineering Associate's (EA) assessment that "potential risk to the Casper Aquifer is moderate to high in the Blake property area" depending on the type of proposed future development.

Subject Property

As stated in the SSI, "The Blake property is located in the very eastern extension of the City of Laramie in predominately the NE ¼, SW ¼, Section 1, T15N, R73W with the very northern portion of the parcel extending into the SE ¼, NW ¼ of said Section 1." The subject property is undeveloped and comprises 3.69 acres. Residential developments exist north and southeast of the subject property. The City's Imperial Heights Park borders the northern half of the eastern boundary of the subject property.

There are two mapped vulnerable features that run west-east across the northern portion of the subject property: an ephemeral drainage and the Sherman Hills Fault.

Proposed Development of Subject Property

As stated in the SSI: "Presently there are no specific development plans for this parcel, and, therefore, this SSI will identify those features present within or associated with this parcel of land that could lead to a negative impact on the Casper Aquifer, in very general terms, from the future development of this land parcel." Based on current zoning (R1-

Low Density Residential) and existing nearby residential developments, EA assumes that residential development and allowed complimentary land uses would be the most likely proposed development(s). EA assumes that any proposed development will be connected to nearby City water and sewer service lines.

SSI Report Conclusions

Wyoming Groundwater agrees with EA's assessment that the potential risk to the Casper Aquifer is moderate to high in the Blake property area and that only the southern half of the property is developable as a result of compliance with required setbacks from vulnerable features. EA assigns a moderate risk for residential developments that comply with required setbacks from vulnerable features. In recognition of hydrogeologic conditions (fault and fractured rock) on the subject property, EA assigns the potential for high risk to allowed non-residential developments that may be proposed in the future.

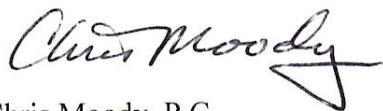
The relative risk to the Casper Aquifer should be revisited when proposals are provided for specific land development and design on the subject property.

Technical Review of SSI Report Information

The SSI produced by Mr. Wetstein was thorough and accurate. All relevant available technical sources and information were well-presented and considered. The potentiometric surface map was comprehensive and covered a substantial area surrounding the subject property. Wyoming Groundwater has no corrections or clarifications of information, analysis, or interpretation presented in the SSI.

Wyoming Groundwater's expertise is in hydrogeology and not engineering-based topics such as surface drainage and flood analysis/control. If you have any questions or comments, please feel free to contact me by phone or email.

Sincerely,

A handwritten signature in cursive script that reads "Chris Moody". The signature is written in black ink and is positioned above the typed name and title.

Chris Moody, P.G.
Wyoming Groundwater, LLC