# **Kansas Broadband Acceleration Grant**

**Statement Concerning Coverage for Proposed Area of Service**

My name is Matt Ahlstedt. I am an engineer for Crazy Communications with over three years of fixed wireless deployment experience. I am confident that a fixed wireless deployment located within The Highlands will not be able to service every residence within The Highlands without unreasonable accommodations due to the high density and height of the trees in the area. See Coverage Map #2, an RF prediction map covering The Highlands. This map takes trees and other ground cover into account and should be fairly representative of the coverage that IdeaTek has from the water tower. The map they provided in the comment is not accurate to the ACTUAL service they can provide, as it does not seem to take ground cover into account. See the attached examples of a few of the residences that are not able to receive service.

I am also confident that multiple homes around the Blue Spruce/Moroccan Heights area would be unable to receive fixed wireless service from the same IdeaTek equipment, and would only be able to receive service via fiber or cable-based broadband. The obstacle that provides the most difficulty in providing homes in this area from The Highland’s water tower, or any of our wireless sites, is the dense area of trees on the southwest corner of 82nd Ave. and Monroe St. These trees, in addition to the raised topography in this region, would block all wireless frequencies that are typically used by fixed wireless internet providers to a point that any connection would be unserviceable. See Coverage Map #3, an RF prediction map that accounts for ground cover for this area. Also see attached images of a few homes in our proposed coverage area. There are two images for each residence. One image is from Cox’s website indicating that they do not provide service the associated residence. The second image is of a simulated link to the home from the water tower using the standard parameters as provided by the grant technical guidelines.

In future grants, we also intend to use the currently proposed fiber backbone to expand to additional homes adjacent to the Blue spruce/Moroccan Heights area that are currently unserved.