

Vicki,

Per your request, some clarification regarding the proposed VzW site coverage graphs in reference to the proposed VzW SW Rapid site at the Arrowhead CC.

The attachment demonstrates how the dominant cell site geography changes & adds capacity to the Rapid City system thru the addition of the proposed new site. The coverage maps provided show how the proposed Arrowhead Country Club site will offload traffic from the SW Sector of the Dinosaur Park, that is reaching its capacity, thereby restoring capacity to the Dinosaur Park site SW Sector.

The 'Existing Coverage' graph indicates that the SW Sector of the Dinosaur Park site (in red) covers so much populated area of SW Rapid City that this Sector is reaching exhaustion.

On the 'Future Coverage' graph the green represents how all 3 sectors (N, SE & SW) of the proposed Arrowhead Country Club site will relieve the demand on the capacity of the Dinosaur Park SW Sector & to a smaller extent, the Foghorn Cleghorn site near Canyon Lake. See where the green coverage area of the proposed new site has become the dominant site to cover much area that was previously being served in the red coverage area by the Dinosaur Park site. Meanwhile, the Dinosaur Park site still serves to provide signal in areas blocked by terrain from an effective signal from Arrowhead Country Club or Foghorn Cleghorn.

The Arrowhead CC site can provide better quality signal & service to its immediate area than Dinosaur Park because of its closer proximity. Additionally, placing the SW Rapid City site in the middle of this highly populated area of town allows three sectors to divide up the traffic currently being processed by only one sector of Dinosaur Park, providing each Arrowhead CC site sector greater capacity for future growth. Since the proposed new site is closer to the actual traffic it covers (than Dinosaur Park), less bandwidth is consumed by each user than if positioned at the greater distance to Dinosaur Park.

More questions?

John Rowe
Buell Consulting, Inc.
303-220-9100 Office
303-618-4615 Cell Phone