Bent 2:

This proposed bent is located in the floodplain on the north side of Reed Creek. Four borings were performed at this bent location to encompass both north and south bound lane structures. Alluvium was encountered at all locations and extends to depths ranging from 2.1 to 3.8 meters. Alluvium is primarily comprised of loose to dense tan-gray silty clayey sand with quartz gravel (A-1-b) except at boring location B2-B SBL which encountered medium stiff gray clayey sandy silt (A-4). The alluvial / residual boundary occurs between elevation 276.55 – 278.84 meters. Below alluvium lies a thin layer of residual soil followed quickly by weathered rock and then hard rock. Residual soil consists of medium dense to very dense tan-brown silty sand (A-2-4) and medium stiff to hard tan-brown silty sandy clay (A-6). Weathered rock and hard rock elevations are denoted as follows:

Location:	Weathered Rock Elevation	Top of Hard Rock Elevation (Begin Core)
B2-A SBL	277.84 (meters)	275.95 (meters)
B2-B SBL	276.57 (meters)	276.42 (meters)
B2-A NBL	276.93 (meters)	275.99 (meters)
B2-B NBL	274.76 (meters)	274.25 (meters)

End Bent 2:

This proposed bent is located in the floodplain on the north side of Reed Creek. Four borings were performed at this bent location to encompass both north and south bound lane structures. Alluvium was encountered at all locations and extends to depths ranging from 2.6 to 3.0 meters. Alluvial soil composition is medium stiff tan-gray silty sandy clay (A-6), and very loose tan-gray silty clayey sand (A-2-4). The alluvial / residual horizon is fairly flat with a mean elevation of 278 meters. Residual soils extend some 1.4 – 2.8 meters below alluvium before encountering weathered rock and then hard rock. Residual soils consist of loose to very dense tan-brown-gray silty sand with gravel sized rock fragments (A-2-4, A-1-b). Weathered rock and hard rock elevations are denoted as follows:

Location:	Weathered Rock Elevation	Tri-Cone Refusal Elevation on Rock
EB2-A SBL	275.54 (meters)	275.31 (meters)
EB2-B SBL	276.30 (meters)	275.97 (meters)
EB2-A NBL	277.69 (meters)	277.31 (meters)
EB2-B NBL	277.35 (meters)	275.98 (meters)

Groundwater

Static groundwater measurements made more than 24 hours after each boring indicate a groundwater table between approximate elevation 278 and 279.5 meters at this site.

Respectfully submitted,

J.E. Beverly, Project Geologist

J E Beverly