

**TABLE 4.7-1 SOIL UNITS WITHIN PROJECT AREA**

SOIL UNIT	LANDFORM	SLOPE GRADIENT	PARENT MATERIAL	EXPANSION INDEX	EROSION HAZARD	SUITABILITY FOR ROADS	DRAINAGE CLASS	HYDROLOGIC GROUP	ACRES IN PROJECT FOOTPRINT
Boomer, cool-Neuns complex	Mountains, backslopes	30-70%	Residuum weathered from metamorphic rock	Low to moderate	Severe	Poorly suited	Well drained	C	0
Deetz gravelly loamy sand	Summits, outwash fans	0-5%	Glaciofluvial deposits derived from igneous rock	None to low	Slight	Well suited	Somewhat excessively drained	A	3.3
Deetz gravelly loamy sand	Summits, backslopes, outwash fans	5-15%	Glaciofluvial deposits derived from igneous rock	None to low	Moderate	Moderately suited	Somewhat excessively drained	A	3.2
Diyou Loam, Peat Substratum	Floodplains	0-2%	Alluvium derived from igneous, metamorphic, and sedimentary rock	Low to moderate	Slight	Moderately suited	Somewhat poorly drained	C	10.9
Marpa-Kinkel-Boomer, cool complex	Mountains, backslopes	15-50%	Residuum weathered from metamorphic rock	None to moderate	Severe	Poorly suited	Well drained	C/B/C	0
Odas Sandy Loam	Floodplains	0-2%	Alluvium derived from igneous rock.	Low to moderate	Slight	Well suited	Poorly drained	D	1.2
Ponto-Neer Complex	Hills and toeslopes	2-15%	Volcanic ash derived from volcanic rock	None to low	Slight	Moderately suited	Well drained	B	9.1

Hydrologic Group Ratings

A – Soils having a high infiltration rate when thoroughly wet. These consist mainly of deep, well-drained to excessively drained sands or gravelly sands. These soils have a high rate of water transmission.

B – Soils having a moderate infiltration rate when wet. These consist chiefly of moderately deep or deep, moderately well-drained or well-drained soils that have moderately fine texture to moderately coarse texture. These soils have a slow rate of water transmission.

C – Soils having a slow infiltration rate when thoroughly wet. These consist chiefly of soils having a layer that impedes the downward movement of water or soils of moderately fine texture or fine texture. These soils have a slow rate of water transmission.

D – Soils having a very slow infiltration rate (high runoff potential) when thoroughly wet. These consist chiefly of clays that have a high shrink-swell potential, soils that have a high water table, soils that have a claypan or clay layer at or near the surface, and soils that are shallow over nearly impervious material. These soils have a very low rate of water transmission.