Appendix 7. Soils in the Project Area

Soil Symbol	Soil Family Name and Percent Slopes	Shrink-Swell Potential		Erosion Potential (K Factor)		Corrosion Potential	
		Quantitative	Qualitative	Quantitative	Qualitative	Concrete	Steel
AaD	Altamont clay, 5 to 15 percent slopes	2.86	low	0.2	low	low	low
AaE2	Altamont clay, 15 to 25 percent slopes, eroded	2.86	low	0.2	low	low	low
BaG	Badland	0	low	NR	NR	NR	low
BP	Borrow pit	0	low	NR	NR	NR	NR
Ce	Chino silt loam, drained	3.78	moderate	0.43	high	low	high
Cf	Chino silt loam, drained, saline-alkali	3.78	moderate	0.43	high	low	high
Cg	Chino silt loam, drained, strongly saline-alkali	3.78	moderate	0.43	high	low	high
ChDE	Ramona family-Typic Xerorthents, warm association, 2 to 30 percent slopes	3.01	moderate	0.28	moderate	NR	NR
ChF2	Cieneba sandy loam, 15 to 50 percent slopes, eroded	0.35	low	0.17	low	moderate	low
CkD2	Cieneba rocky sandy loam, 8 to 15 percent slopes, eroded	0.35	low	0.17	low	moderate	low
CkF2	Cieneba rocky sandy loam, 15 to 50 percent slopes, eroded	0.35	low	0.17	low	moderate	low
CnD	Cieneba sandy loam, 9 to 15 percent slopes	0.35	low	0.2	low	NR	moderate
Cp	Cieneba-friant sandy loams	0.35	low	0.2	low	NR	moderate
Cr	Cieneba-rock outcrop complex	0.35	low	0.2	low	low	moderate
CsF2	Crafton rocky sandy loam, 25 to 50 percent slopes, eroded	0.65	low	0.15	low	moderate	low
Dn	Trigo family-Lithic Xerorthents, warm complex, 30 to 75 percent slopes	NR	NR	NR	NR	NR	NR
DpG	Lithic Xerorthents, warm-rock outcrop complex, 50 to 100 percent slopes	0.44	low	0.1	low	NR	NR
Fc	Fallbrook rocky sandy loam, 15 to 50 percent slopes	NR	NR	NR	NR	NR	NR
FLG	Springdale family-Lithic Xerorthents association, dry, 50 to 75 percent slopes	1.12	low	0.05	low	NR	NR
FsD	Wilshire-Oak Glen, dry families association, 2 to 15 percent slopes	1.5	low	0.05	low	NR	NR
FyF2	Friant rocky fine sandy loam, 25 to 50 percent slopes, eroded	0.32	low	0.17	low	moderate	low
Gh	Gorgonio loamy sand to cobbly loamy fine sand, 0 to 8 percent slopes	NR	NR	NR	NR	NR	NR
GP	Gravel pits and Quarries	1.5	low	0.02	low	NR	NR

Soil Symbol	Soil Family Name and Percent Slopes	Shrink-Swell Potential		Erosion Potential (K Factor)		Corrosion Potential	
		Quantitative	Qualitative	Quantitative	Qualitative	Concrete	Steel
Gp	Grangeville sandy loam, drained, saline-alkali, 0 to 5 percent slopes	NR	NR	NR	NR	NR	NR
Gr	Grangeville fine sandy loam, 0 to 2 percent slopes	1.5	low	0.32	moderate	low	high
GrEF	Green Bluff-Brader families association, 15 to 50 percent slopes	0.65	low	0.15	low	NR	NR
Gs	Grangeville fine sandy loam, saline-alkali	1.5	low	0.32	moderate	low	high
GtA	Grangeville fine sandy loam, drained, 0 to 2 percent slopes	1.5	low	0.28	moderate	low	high
GtC	Greenfield sandy loam, 2 to 9 percent slopes	1.5	low	0.2	low	low	moderate
GtD	Grangeville fine sandy loam, drained, 5 to 15 percent slopes	1.5	low	0.28	moderate	low	high
GuD	Greenfield cobbly sandy loam, 5 to 15 percent slopes	1.5	low	0.24	low	low	moderate
GyC2	Greenfield sandy loam, 2 to 8 percent slopes, eroded	1.5	low	0.32	moderate	low	low
GyD2	Greenfield sandy loam, 8 to 15 percent slopes, eroded	1.5	low	0.32	moderate	low	low
GyE2	Greenfield sandy loam, 15 to 25 percent slopes, eroded	1.5	low	0.32	moderate	low	low
HaC	Hanford coarse sandy loam, 2 to 9 percent slopes (San Bernardino County)	1.5	low	0.32	moderate	low	moderate
HaC	Hanford loamy fine sand, 0 to 8 percent slopes (Riverside County)	1.5	low	0.28	moderate	low	NR
HbA	Hanford sandy loam, 0 to 2 percent slopes	1.5	low	0.32	moderate	low	moderate
HcC	Hanford coarse sandy loam, 2 to 8 percent slopes	1.5	low	0.28	moderate	low	low
HcD2	Hanford coarse sandy loam, 8 to 15 percent slopes, eroded	1.5	low	0.28	moderate	low	low
HdD2	Hanford cobbly coarse sandy loam, 2 to 15 percent slopes, eroded	1.5	low	0.1	low	low	low
HeC2	Hanford coarse sandy loam, deep, 2 to 8 percent slopes, eroded	1.5	low	0.28	moderate	low	low
HfD	Hanford sandy loam, 2 to 15 percent slopes	1.5	low	0.28	moderate	low	low
LrG	Lithic Xerorthents-Rock outcrop complex, 50 to 100 percent slopes	0.45	low	0.1	low	NR	NR
MeD	Metz loamy sand, channeled, 0 to 15 percent slopes	1.5	low	0.17	low	low	low
MfA	Metz loamy fine sand, 0 to 2 percent slopes	1.5	low	0.17	low	low	low
MlD	Metz gravelly sandy loam, 2 to 15 percent slopes	1.5	low	0.1	low	low	low
MmC2	Monserate sandy loam, 5 to 8 percent slopes, eroded	1.67	low	0.28	moderate	low	low
MmD2	Monserate sandy loam, 8 to 15 percent slopes, eroded	1.67	low	0.28	moderate	low	low

Soil Symbol	Soil Family Name and Percent Slopes	Shrink-Swell Potential		Erosion Potential (K Factor)		Corrosion Potential	
		Quantitative	Qualitative	Quantitative	Qualitative	Concrete	Steel
MmE3	Monserate sandy loam, 15 to 25 percent slopes, severely eroded	1.91	low	0.28	moderate	low	low
MnD2	Monserate sandy loam, shallow, 5 to 15 percent slopes, eroded	0.93	low	0.28	moderate	low	low
MnE3	Monserate sandy loam, shallow, 15 to 25 percent slopes, severely eroded	0.93	low	0.28	moderate	low	low
PaC2	Pachappa fine sandy loam, 2 to 8 percent slopes, eroded	2.5	low	0.24	low	low	low
PlB	Placentia fine sandy loam, 0 to 5 percent slopes	4.5	moderate	0.32	moderate	low	moderate
PlD	Placentia fine sandy loam, 5 to 15 percent slopes	4.5	moderate	0.32	moderate	low	moderate
Ps	Psamments and fluvents, frequently flooded	1.5	low	0.17	low	low	moderate
RaA	Ramona sandy loam, 0 to 2 percent slopes	1.5	low	0.28	moderate	low	moderate
RaB2	Ramona sandy loam, 2 to 5 percent slopes, eroded	1.5	low	0.28	moderate	low	moderate
RaB3	Ramona sandy loam, 0 to 5 percent slopes, severely eroded	1.5	low	0.28	moderate	low	moderate
RaC2	Ramona sandy loam, 5 to 8 percent slopes, eroded	1.5	low	0.28	moderate	low	moderate
RaC3	Ramona sandy loam, 5 to 8 percent slopes, severely eroded	1.5	low	0.28	moderate	low	moderate
RaD2	Ramona sandy loam, 8 to 15 percent slopes, eroded	1.5	low	0.28	moderate	low	moderate
RaD3	Ramona sandy loam, 8 to 15 percent slopes, severely eroded	1.5	low	0.28	moderate	low	moderate
RaE3	Ramona sandy loam, 15 to 25 percent slopes, severely eroded	1.5	low	0.28	moderate	low	moderate
RdD2	Ramona sandy loam, moderately deep, 8 to 15 percent slopes, eroded	4	moderate	0.28	moderate	low	moderate
RdE3	Ramona sandy loam, moderately deep, 15 to 25 percent slopes, severely eroded	4.1	moderate	0.28	moderate	low	moderate
ReC2	Ramona very fine sandy loam, 0 to 8 percent slopes, eroded	NR	NR	0.49	high	low	moderate
RfC2	Ramona very fine sandy loam, moderately deep, 0 to 8 percent slopes, eroded	NR	NR	0.32	moderate	low	moderate
RmC	Ramona sandy loam, 2 to 9 percent slopes	1.95	low	0.2	low	low	moderate
RmD	Ramona sandy loam, 9 to 15 percent slopes	1.95	low	0.2	low	low	moderate
RmE2	Ramona sandy loam, 15 to 30 percent slopes, eroded	1.95	low	0.2	low	moderate	moderate
RsC	Riverwash	0	low	0.05	low	NR	NR
RtF	Rockland	0	low	NR	NR	NR	NR

Soil Symbol	Soil Family Name and Percent Slopes	Shrink-Swell Potential		Erosion Potential (K Factor)		Corrosion Potential	
		Quantitative	Qualitative	Quantitative	Qualitative	Concrete	Steel
RuF	Rough broken land	0	low	NR	NR	NR	NR
Rw	Riverwash	0	low	NR	NR	NR	NR
SbC	San Emigdio gravelly sandy loam, 2 to 9 percent slopes	1.5	low	0.2	low	low	high
ScA	San Emigdio fine sandy loam, 0 to 2 percent slopes	1.5	low	0.32	moderate	low	high
ScC	San Emigdio fine sandy loam, 2 to 9 percent slopes	1.5	low	0.32	moderate	low	high
SdD	San Emigdio sandy loam, channeled, 2 to 15 percent slopes	1.5	low	0.24	low	low	low
SeA	San Emigdio fine sandy loam, 0 to 2 percent slopes	1.5	low	0.24	low	low	low
SeC2	San Emigdio fine sandy loam, 2 to 8 percent slopes, eroded	1.5	low	0.24	low	low	low
SeD2	San Emigdio fine sandy loam, 8 to 15 percent slopes, eroded	1.5	low	0.24	low	low	low
SgA	San Emigdio loam, 0 to 2 percent slopes	1.5	low	0.24	low	low	low
SgC	San Emigdio loam, 2 to 8 percent slopes	1.5	low	0.24	low	low	low
SgD2	San Emigdio loam, 8 to 15 percent slopes, eroded	1.5	low	0.24	low	low	low
ShF	Saugus sandy loam, 30 to 50 percent slopes	1	low	0.24	low	low	low
SmE2	San Timoteo loam, 8 to 25 percent slopes, eroded	0.55	low	0.24	low	low	low
SmF2	San Timoteo loam, 25 to 50 percent slopes, eroded	0.55	low	0.24	low	low	low
SoC	Soboba gravelly loamy sand, 0 to 9 percent slopes	1.5	low	0.15	low	low	moderate
SpC	Soboba stony loamy sand, 2 to 9 percent slopes	1.5	low	0.15	low	moderate	moderate
SrE	Soboba cobbly loamy sand, 2 to 25 percent slopes	1.5	low	0.1	low	low	low
SsD	Soboba stony loamy sand, 2 to 15 percent slopes	1.5	low	0.1	low	low	low
TeG	Terrace escarpments	0	low	NR	NR	NR	low
TuB	Tujunga loamy sand, 0 to 5 percent slopes	1.5	low	0.2 & 0.17	low	low	moderate
TvC	Tujunga gravelly loamy sand, 0 to 9 percent slopes (San Bernardino County)	1.5	low	0.1	low	low	moderate
TvC	Tujunga loamy sand, channeled, 0 to 8 percent slopes (Riverside County)	1.5	low	0.17	low	low	low
TwC	Tujunga gravelly loamy sand, 0 to 8 percent slopes	1.5	low	0.17	low	low	low
VlC2	Visalia sandy loam, 0 to 8 percent slopes, eroded	1.5	low	0.24	low	moderate	low
VsD2	Vista coarse sandy loam, 8 to 15 percent slopes, eroded	0.6	low	0.24	low	moderate	low
VsF2	Vista coarse sandy loam, 15 to 35 percent slopes, eroded	0.6	low	0.24	low	moderate	low

Soil Symbol	Soil Family Name and Percent Slopes	Shrink-Swell Potential		Erosion Potential (K Factor)		Corrosion Potential	
		Quantitative	Qualitative	Quantitative	Qualitative	Concrete	Steel
VtF2	Vista rocky coarse sandy loam, 2 to 35 percent slopes, eroded	0.6	low	0.24	low	moderate	low
W	Water	NA	NA	NA	NA	low	low

Source: SCE, 2007a

Notes:

Soil symbols correspond to those depicted on Figures D.6-4a through D.6-4e

NR = Not Rated

NA = Not Applicable