

Harmon Barranca

Columns	nb				n1				n2			n3			n4				n5			n	
Classification	Base "n"				Surface Irregularity				Variations in Size and Shape of Cross-section			Obstructions			Vegetation				Meandering			Total "n" (nb+n1+n2+n3+n4)*n5	
																							0.020
	Earth	Rock	Fine Gravel	Coarse Gravel	Smooth	Minor	Moderate	Severe	Straight Gradual	Occasional Shifting	Frequent Shifting	Negligible	Minor	Appreciable	Severe	Low	Medium	High	Very High	Minor 1.0 to 1.22	Appreciable 1.2 to 1.52		Severe 1.52+
SCR to the Railroad Crossing		0.025					0.010			0.005		0.000				0.005				1.000			0.045
Railroad Crossing ~ Highway 126	0.020						0.010			0.005		0.000					0.010			1.120			0.050
Highway 126 ~ Foothill Road	0.020						0.010			0.005		0.000					0.010			1.120			0.050
Upstream of Foothill Road	0.020						0.010			0.005		0.000					0.010			1.120			0.050

OVERBANKS RIGHT West

Columns	nb				n1				n2			n3			n4				n5			n	
Classification	Base "n"				Surface Irregularity				Variations in Size and Shape of Cross-section			Obstructions			Vegetation				Meandering			Total "n" (nb+n1+n2+n3+n4)*n5	
																							0.020
	Earth	Rock	Fine Gravel	Coarse Gravel	Smooth	Minor	Moderate	Severe	Straight Gradual	Occasional Shifting	Frequent Shifting	Negligible	Minor	Appreciable	Severe	Low	Medium	High	Very High	Minor 1.0 to 1.22	Appreciable 1.2 to 1.52		Severe 1.52+
SCR to the Railroad Crossing (Urban)																							0.130
Railroad Crossing ~ Highway 126 (Medium residential)																							0.130
Highway 126 ~ Foothill Road (Medium tree coverage)																							0.090
Upstream of Foothill Road (Medium tree coverage)																							0.090

OVERBANKS LEFT East

Columns	nb				n1				n2			n3			n4				n5			n	
Classification	Base "n"				Surface Irregularity				Variations in Size and Shape of Cross-section			Obstructions			Vegetation				Meandering			Total "n" (nb+n1+n2+n3+n4)*n5	
																							0.020
	Earth	Rock	Fine Gravel	Coarse Gravel	Smooth	Minor	Moderate	Severe	Straight Gradual	Occasional Shifting	Frequent Shifting	Negligible	Minor	Appreciable	Severe	Low	Medium	High	Very High	Minor 1.0 to 1.22	Appreciable 1.2 to 1.52		Severe 1.52+
SCR to the Railroad Crossing (Medium farm land)																							0.060
Railroad Crossing ~ Highway 126 (Residential & farm land)																							0.100
Highway 126 ~ Foothill Road (Medium residential)																							0.130
Upstream of Foothill Road (Medium tree coverage)																							0.090

 : Not calculated from Cowan's method

Clark Barranca

Columns		nb				n1				n2			n3			n4				n5			n		
Classification	Description of Reach, Station, or Cross-section	Base "n"				Surface Irregularity				Variations in Size and Shape of Cross-section			Obstructions			Vegetation				Meandering			Total "n" (nb+n1+n2+n3+n4)*n5		
		0.020	0.025	0.024	0.028	0.000	0.005	0.010	0.020	0.000	0.005	0.010	0.000	0.010	0.020	0.040	0.005	0.010	0.025	0.050	0.050	1.000		1.150	1.300
		Earth	Rock	Fine Gravel	Coarse Gravel	Smooth	Minor	Moderate	Severe	Straight Gradual	Occasional Shifting	Frequent Shifting	Negligible	Minor	Appreciable	Severe	Low	Medium	High	Very High	Minor 1.0 to 1.22	Appreciable 1.2 to 1.52		Severe 1.52+	
	SCR confluence ~ North Bank Drive	0.020					0.005				0.005				0.010			0.005				1.000			0.045
	North Bank Drive ~ Highway 126	0.015				0.000				0.000			0.000					0.000				1.000			0.015
	Highway 126 ~ Telegraph Road	0.015				0.000				0.000			0.000					0.000				1.000			0.015
	Telegraph Road ~ Foothill Road	0.015				0.000				0.000			0.000					0.000				1.000			0.015
	Upstream of Foothill	0.020					0.005				0.005		0.000					0.005				1.000			0.035

OVERBANKS RIGHT West

Columns		nb				n1				n2			n3			n4				n5			n			
Classification	Description of Reach, Station, or Cross-section	Base "n"				Surface Irregularity				Variations in Size and Shape of Cross-section			Obstructions			Vegetation				Meandering			Total "n" (nb+n1+n2+n3+n4)*n5			
		0.020	0.025	0.024	0.028	0.000	0.005	0.010	0.020	0.000	0.005	0.010	0.000	0.010	0.020	0.040	0.005	0.010	0.025	0.050	0.050	1.000		1.150	1.300	
		Earth	Rock	Fine Gravel	Coarse Gravel	Smooth	Minor	Moderate	Severe	Straight Gradual	Occasional Shifting	Frequent Shifting	Negligible	Minor	Appreciable	Severe	Low	Medium	High	Very High	Minor 1.0 to 1.22	Appreciable 1.2 to 1.52		Severe 1.52+		
	SCR confluence ~ North Bank Drive (Medium residential)																								0.130	
	North Bank Drive ~ Highway 127 (Medium residential)																									0.130
	Highway 126 ~ Telegraph Road (Medium residential)																									0.130
	Telegraph Road ~ Foothill Road (Medium residential)																									0.130
	Upstream of Foothill (Medium residential)																									0.130

OVERBANKS LEFT East

Columns		nb				n1				n2			n3			n4				n5			n				
Classification	Description of Reach, Station, or Cross-section	Base "n"				Surface Irregularity				Variations in Size and Shape of Cross-section			Obstructions			Vegetation				Meandering			Total "n" (nb+n1+n2+n3+n4)*n5				
		0.020	0.025	0.024	0.028	0.000	0.005	0.010	0.020	0.000	0.005	0.010	0.000	0.010	0.020	0.040	0.005	0.010	0.025	0.050	0.050	1.000		1.150	1.300		
		Earth	Rock	Fine Gravel	Coarse Gravel	Smooth	Minor	Moderate	Severe	Straight Gradual	Occasional Shifting	Frequent Shifting	Negligible	Minor	Appreciable	Severe	Low	Medium	High	Very High	Minor 1.0 to 1.22	Appreciable 1.2 to 1.52		Severe 1.52+			
	SCR confluence ~ North Bank Drive (Medium residential)																									0.130	
	North Bank Drive ~ Highway 127 (Medium residential)																										0.130
	Highway 126 ~ Telegraph Road (Medium residential)																										0.130
	Telegraph Road ~ Foothill Road (Medium Tree cover & residential)																										0.100
	Upstream of Foothill (Medium tree coverage)																										0.090

 : Not calculated from Cowan's method

Sudden Barranca

Columns		nb				n1				n2			n3			n4				n5			n		
Classification	Description of Reach, Station, or Cross-section	Base "n"				Surface Irregularity				Variations in Size and Shape of Cross-section			Obstructions			Vegetation				Meandering			Total "n" (nb+n1+n2+n3+n4)*n5		
		0.020	0.025	0.024	0.028	0.000	0.005	0.010	0.020	0.000	0.005	0.010	0.000	0.010	0.020	0.040	0.005	0.010	0.025	0.050	0.100	1.000		1.150	1.300
		Earth	Rock	Fine Gravel	Coarse Gravel	Smooth	Minor	Moderate	Severe	Straight Gradual	Occasional Shifting	Frequent Shifting	Negligible	Minor	Appreciable	Severe	Low	Medium	High	Very High	Minor 1.0 to 1.22	Appreciable 1.2 to 1.52		Severe 1.52+	
	SCR confluence ~ Railroad	0.020					0.005				0.005			0.010			0.010				1.000			0.050	
	Railroad ~ Darling Road	0.015				0.000				0.000				0.000			0.000				1.000			0.015	
	Darling Road ~ US study limit	0.015				0.000				0.000				0.000			0.000				1.000			0.015	

OVERBANKS RIGHT West

Columns		nb				n1				n2			n3			n4				n5			n		
Classification	Description of Reach, Station, or Cross-section	Base "n"				Surface Irregularity				Variations in Size and Shape of Cross-section			Obstructions			Vegetation				Meandering			Total "n" (nb+n1+n2+n3+n4)*n5		
		0.020	0.025	0.024	0.028	0.000	0.005	0.010	0.020	0.000	0.005	0.010	0.000	0.010	0.020	0.040	0.005	0.010	0.025	0.050	0.100	1.000		1.150	1.300
		Earth	Rock	Fine Gravel	Coarse Gravel	Smooth	Minor	Moderate	Severe	Straight Gradual	Occasional Shifting	Frequent Shifting	Negligible	Minor	Appreciable	Severe	Low	Medium	High	Very High	Minor 1.0 to 1.22	Appreciable 1.2 to 1.52		Severe 1.52+	
	SCR confluence ~ Railroad (Medium residential)																							0.130	
	Railroad ~ Darling Road (Medium residential)																								0.130
	Darling Road ~ US study limit (Medium residential)																								0.090

OVERBANKS LEFT East

Columns		nb				n1				n2			n3			n4				n5			n			
Classification	Description of Reach, Station, or Cross-section	Base "n"				Surface Irregularity				Variations in Size and Shape of Cross-section			Obstructions			Vegetation				Meandering			Total "n" (nb+n1+n2+n3+n4)*n5			
		0.020	0.025	0.024	0.028	0.000	0.005	0.010	0.020	0.000	0.005	0.010	0.000	0.010	0.020	0.040	0.005	0.010	0.025	0.050	0.100	1.000		1.150	1.300	
		Earth	Rock	Fine Gravel	Coarse Gravel	Smooth	Minor	Moderate	Severe	Straight Gradual	Occasional Shifting	Frequent Shifting	Negligible	Minor	Appreciable	Severe	Low	Medium	High	Very High	Minor 1.0 to 1.22	Appreciable 1.2 to 1.52		Severe 1.52+		
	SCR confluence ~ Railroad (Medium residential)																								0.130	
	Railroad ~ Darling Road (Medium residential)																									0.130
	Darling Road ~ US study limit (Medium tree coverage)																									0.090

 : Not calculated from Cowan's method

Brown Barranca

Columns	nb				n1				n2				n3				n4				n5			n
Classification	Base "n"				Surface Irregularity				Variations in Size and Shape of Cross-section				Obstructions				Vegetation				Meandering			Total "n" (nb+n1+n2+n3+n4)*n5
	Earth	Rock	Fine Gravel	Coarse Gravel	Smooth	Minor	Moderate	Severe	Straight Gradual	Occasional Shifting	Frequent Shifting	Negligible	Minor	Appreciable	Severe	Low	Medium	High	Very High	Minor 1.0 to 1.22	Appreciable 1.2 to 1.52	Severe 1.52+		
SCR confluence ~ Henderson Road	0.020						0.010			0.005			0.000				0.005				1.000			0.040
Henderson Road ~ Blackburn Road	0.015				0.000					0.000			0.000				0.000				1.000			0.015
Blackburn Road ~ US study boundary	0.020						0.010			0.005			0.000				0.010					1.150		0.052

OVERBANKS RIGHT West

Columns	nb				n1				n2				n3				n4				n5			n
Classification	Base "n"				Surface Irregularity				Variations in Size and Shape of Cross-section				Obstructions				Vegetation				Meandering			Total "n" (nb+n1+n2+n3+n4)*n5
	Earth	Rock	Fine Gravel	Coarse Gravel	Smooth	Minor	Moderate	Severe	Straight Gradual	Occasional Shifting	Frequent Shifting	Negligible	Minor	Appreciable	Severe	Low	Medium	High	Very High	Minor 1.0 to 1.22	Appreciable 1.2 to 1.52	Severe 1.52+		
SCR confluence ~ Henderson Road (Urban & farm land)																								0.100
Henderson Road ~ Blackburn Road (Residential & farm land)																								0.100
Blackburn Road ~ US study boundary (Medium tree coverage)																								0.090

OVERBANKS LEFT East

Columns	nb				n1				n2				n3				n4				n5			n
Classification	Base "n"				Surface Irregularity				Variations in Size and Shape of Cross-section				Obstructions				Vegetation				Meandering			Total "n" (nb+n1+n2+n3+n4)*n5
	Earth	Rock	Fine Gravel	Coarse Gravel	Smooth	Minor	Moderate	Severe	Straight Gradual	Occasional Shifting	Frequent Shifting	Negligible	Minor	Appreciable	Severe	Low	Medium	High	Very High	Minor 1.0 to 1.22	Appreciable 1.2 to 1.52	Severe 1.52+		
SCR confluence ~ Henderson Road (Urban & farm land)																								0.100
Henderson Road ~ Blackburn Road (Residential & farm land)																								0.100
Blackburn Road ~ US study boundary (Medium tree coverage)																								0.090

 : Not calculated from Cowan's method

Franklin Barranca

Columns		nb				n1				n2			n3			n4				n5			n			
Classification	Description of Reach, Station, or Cross-section	Base "n"				Surface Irregularity				Variations in Size and Shape of Cross-section			Obstructions			Vegetation				Meandering			Total "n" (nb+n1+n2+n3+n4)*n5			
		0.020	0.025	0.024	0.028	0.000	0.005	0.010	0.020	0.000	0.005	0.010	0.015	0.000	0.010	0.020	0.040	0.005	0.010	0.025	0.050	0.100		1.000	1.150	1.300
		Earth	Rock	Fine Gravel	Coarse Gravel	Smooth	Minor	Moderate	Severe	Straight Gradual	Occasional Shifting	Frequent Shifting	Negligible	Minor	Appreciable	Severe	Low	Medium	High	Very High	Minor 1.0 to 1.22	Appreciable 1.2 to 1.52		Severe 1.52+		
	SCR confluence ~ Telegraph Road	0.015				0.000				0.000			0.000				0.000					1.000			0.015	
	Telegraph Road ~ Foothill Road	0.020						0.010			0.005		0.000				0.005					1.000			0.040	
	Foothill Road ~ US study boundary	0.020						0.010			0.005		0.000				0.005						1.150		0.046	

OVERBANKS Right West

Columns		nb				n1				n2			n3			n4				n5			n			
Classification	Description of Reach, Station, or Cross-section	Base "n"				Surface Irregularity				Variations in Size and Shape of Cross-section			Obstructions			Vegetation				Meandering			Total "n" (nb+n1+n2+n3+n4)*n5			
		0.020	0.025	0.024	0.028	0.000	0.005	0.010	0.020	0.000	0.005	0.010	0.015	0.000	0.010	0.020	0.040	0.005	0.010	0.025	0.050	0.100		1.000	1.150	1.300
		Earth	Rock	Fine Gravel	Coarse Gravel	Smooth	Minor	Moderate	Severe	Straight Gradual	Occasional Shifting	Frequent Shifting	Negligible	Minor	Appreciable	Severe	Low	Medium	High	Very High	Minor 1.0 to 1.22	Appreciable 1.2 to 1.52		Severe 1.52+		
	SCR confluence ~ Telegraph Road (Residential and farm land)																								0.100	
	Telegraph Road ~ Foothill Road (Medium tree coverage and farm land)																									0.075
	Foothill Road ~ US study boundary (Medium tree coverage and farm land)																									0.075

OVERBANKS Left East

Columns		nb				n1				n2			n3			n4				n5			n			
Classification	Description of Reach, Station, or Cross-section	Base "n"				Surface Irregularity				Variations in Size and Shape of Cross-section			Obstructions			Vegetation				Meandering			Total "n" (nb+n1+n2+n3+n4)*n5			
		0.020	0.025	0.024	0.028	0.000	0.005	0.010	0.020	0.000	0.005	0.010	0.015	0.000	0.010	0.020	0.040	0.005	0.010	0.025	0.050	0.100		1.000	1.150	1.300
		Earth	Rock	Fine Gravel	Coarse Gravel	Smooth	Minor	Moderate	Severe	Straight Gradual	Occasional Shifting	Frequent Shifting	Negligible	Minor	Appreciable	Severe	Low	Medium	High	Very High	Minor 1.0 to 1.22	Appreciable 1.2 to 1.52		Severe 1.52+		
	SCR confluence ~ Telegraph Road (Medium tree coverage and farm land)																									0.075
	Telegraph Road ~ Foothill Road (Medium tree coverage and farm land)																									0.075
	Foothill Road ~ US study boundary (Medium tree coverage and farm land)																									0.075

 : Not calculated from Cowan's method

Ellsworth Barranc

Columns	nb				n1				n2			n3			n4				n5			n		
Classification	Base "n"				Surface Irregularity				Variations in Size and Shape of Cross-section			Obstructions			Vegetation				Meandering			Total "n" (nb+n1+n2+n3+n4)*n5		
																							0.020	0.025
	Earth	Rock	Fine Gravel	Coarse Gravel	Smooth	Minor	Moderate	Severe	Straight Gradual	Occasional Shifting	Frequent Shifting	Negligible	Minor	Appreciable	Severe	Low	Medium	High	Very High	Minor 1.0 to 1.22	Appreciable 1.2 to 1.52		Severe 1.52+	
SCR confluence ~ Foothill Road	0.020					0.005					0.005		0.000				0.010					1.150		0.046
Foothill Road ~ US study boundary	0.020					0.005					0.005		0.000				0.010					1.150		0.046

OVERBANKS Right West

Columns	nb				n1				n2			n3			n4				n5			n		
Classification	Base "n"				Surface Irregularity				Variations in Size and Shape of Cross-section			Obstructions			Vegetation				Meandering			Total "n" (nb+n1+n2+n3+n4)*n5		
																							0.020	0.025
	Earth	Rock	Fine Gravel	Coarse Gravel	Smooth	Minor	Moderate	Severe	Straight Gradual	Occasional Shifting	Frequent Shifting	Negligible	Minor	Appreciable	Severe	Low	Medium	High	Very High	Minor 1.0 to 1.22	Appreciable 1.2 to 1.52		Severe 1.52+	
SCR confluence ~ Foothill Road (Medium Farming land)																								0.060
Foothill Road ~ US study boundary (Medium tree coverage and farm land)																								0.075

OVERBANKS Left East

Columns	nb				n1				n2			n3			n4				n5			n		
Classification	Base "n"				Surface Irregularity				Variations in Size and Shape of Cross-section			Obstructions			Vegetation				Meandering			Total "n" (nb+n1+n2+n3+n4)*n5		
																							0.020	0.025
	Earth	Rock	Fine Gravel	Coarse Gravel	Smooth	Minor	Moderate	Severe	Straight Gradual	Occasional Shifting	Frequent Shifting	Negligible	Minor	Appreciable	Severe	Low	Medium	High	Very High	Minor 1.0 to 1.22	Appreciable 1.2 to 1.52		Severe 1.52+	
SCR confluence ~ Foothill Road (Medium Farming land)																								0.060
Foothill Road ~ US study boundary (Medium tree coverage and farm land)																								0.075

 : Not calculated from Cowan's method

Todd Barranca

Columns	nb				n1				n2			n3				n4				n5			n	
Classification	Base "n"				Surface Irregularity				Variations in Size and Shape of Cross-section			Obstructions				Vegetation				Meandering			Total "n" (nb+n1+n2+n3+n4)*n5	
																								0.020
	Earth	Rock	Fine Gravel	Coarse Gravel	Smooth	Minor	Moderate	Severe	Straight Gradual	Occasional Shifting	Frequent Shifting	Negligible	Minor	Appreciable	Severe	Low	Medium	High	Very High	Minor 1.0 to 1.22	Appreciable 1.2 to 1.52	Severe 1.52+		
SCR confluence ~ Foothill Road	0.020						0.010			0.005				0.000				0.010				1.150		0.052
Foothill Road ~ US study boundary	0.020						0.010			0.005				0.000				0.010				1.150		0.052

OVERBANKS Right West

Columns	nb				n1				n2			n3				n4				n5			n	
Classification	Base "n"				Surface Irregularity				Variations in Size and Shape of Cross-section			Obstructions				Vegetation				Meandering			Total "n" (nb+n1+n2+n3+n4)*n5	
																								0.020
	Earth	Rock	Fine Gravel	Coarse Gravel	Smooth	Minor	Moderate	Severe	Straight Gradual	Occasional Shifting	Frequent Shifting	Negligible	Minor	Appreciable	Severe	Low	Medium	High	Very High	Minor 1.0 to 1.22	Appreciable 1.2 to 1.52	Severe 1.52+		
SCR confluence ~ Foothill Road (Medium Farm land)																								0.075
Foothill Road ~ US study boundary (Medium tree coverage and farm land)																								0.075

OVERBANKS Left East

Columns	nb				n1				n2			n3				n4				n5			n	
Classification	Base "n"				Surface Irregularity				Variations in Size and Shape of Cross-section			Obstructions				Vegetation				Meandering			Total "n" (nb+n1+n2+n3+n4)*n5	
																								0.020
	Earth	Rock	Fine Gravel	Coarse Gravel	Smooth	Minor	Moderate	Severe	Straight Gradual	Occasional Shifting	Frequent Shifting	Negligible	Minor	Appreciable	Severe	Low	Medium	High	Very High	Minor 1.0 to 1.22	Appreciable 1.2 to 1.52	Severe 1.52+		
SCR confluence ~ Foothill Road (Medium Farm land)																								0.075
Foothill Road ~ US study boundary (Medium tree coverage and farm land)																								0.075

 : Not calculated from Cowan's method

Briggs Road Drain

Columns		nb				n1				n2			n3			n4				n5			n	
Classification	Description of Reach, Station, or Cross-section	Base "n"				Surface Irregularity				Variations in Size and Shape of Cross-section			Obstructions			Vegetation				Meandering			Total "n" (nb+n1+n2+n3+n4)*n5	
		0.020	0.025	0.024	0.028	0.000	0.005	0.010	0.020	0.000	0.005	0.010	0.000	0.010	0.020	0.040	0.005	0.010	0.025	0.050	1.000	1.150		1.300
		Earth	Rock	Fine Gravel	Coarse Gravel	Smooth	Minor	Moderate	Severe	Straight Gradual	Occasional Shifting	Frequent Shifting	Negligible	Minor	Appreciable	Severe	Low	Medium	High	Very High	Minor 1.0 to 1.22	Appreciable 1.2 to 1.52		Severe 1.52+
	SCR confluence ~ Shell Road	0.020						0.010			0.005					0.005				1.000			0.040	
	Shell Road ~ Highway 126	0.020					0.005				0.005					0.005				1.000			0.035	
	Highway 126 ~ Santa Paula Street	0.020						0.010			0.005					0.010				1.000			0.045	

OVERBANKS Right West

Columns		nb				n1				n2			n3			n4				n5			n	
Classification	Description of Reach, Station, or Cross-section	Base "n"				Surface Irregularity				Variations in Size and Shape of Cross-section			Obstructions			Vegetation				Meandering			Total "n" (nb+n1+n2+n3+n4)*n5	
		0.020	0.025	0.024	0.028	0.000	0.005	0.010	0.020	0.000	0.005	0.010	0.000	0.010	0.020	0.040	0.005	0.010	0.025	0.050	1.000	1.150		1.300
		Earth	Rock	Fine Gravel	Coarse Gravel	Smooth	Minor	Moderate	Severe	Straight Gradual	Occasional Shifting	Frequent Shifting	Negligible	Minor	Appreciable	Severe	Low	Medium	High	Very High	Minor 1.0 to 1.22	Appreciable 1.2 to 1.52		Severe 1.52+
	SCR confluence ~ Shell Road (Residential and farmland)																						0.100	
	Shell Road ~ Highway 126 (Medium tree coverage and farm land and residential)																						0.075	
	Highway 126 ~ Santa Paula Street (Medium tree coverage and farm land and residential)																						0.075	

OVERBANKS Left East

Columns		nb				n1				n2			n3			n4				n5			n	
Classification	Description of Reach, Station, or Cross-section	Base "n"				Surface Irregularity				Variations in Size and Shape of Cross-section			Obstructions			Vegetation				Meandering			Total "n" (nb+n1+n2+n3+n4)*n5	
		0.020	0.025	0.024	0.028	0.000	0.005	0.010	0.020	0.000	0.005	0.010	0.000	0.010	0.020	0.040	0.005	0.010	0.025	0.050	1.000	1.150		1.300
		Earth	Rock	Fine Gravel	Coarse Gravel	Smooth	Minor	Moderate	Severe	Straight Gradual	Occasional Shifting	Frequent Shifting	Negligible	Minor	Appreciable	Severe	Low	Medium	High	Very High	Minor 1.0 to 1.22	Appreciable 1.2 to 1.52		Severe 1.52+
	SCR confluence ~ Shell Road (Medium tree coverage and farm land and residential)																						0.075	
	Shell Road ~ Highway 126 (Medium tree coverage and farm land and residential)																						0.075	
	Highway 126 ~ Santa Paula Street (Medium tree coverage and farm land and residential)																						0.075	

 : Not calculated from Cowan's method

Haines Barranca

Columns		nb				n1				n2			n3			n4				n5			n	
Classification	Description of Reach, Station, or Cross-section	Base "n"				Surface Irregularity				Variations in Size and Shape of Cross-section			Obstructions			Vegetation				Meandering			Total "n" (nb+n1+n2+n3+n4)*n5	
		0.020	0.025	0.024	0.028	0.000	0.005	0.010	0.020	0.000	0.005	0.010	0.000	0.010	0.020	0.040	0.005	0.010	0.025	0.050	1.000	1.150		1.300
		Earth	Rock	Fine Gravel	Coarse Gravel	Smooth	Minor	Moderate	Severe	Straight Gradual	Occasional Shifting	Frequent Shifting	Negligible	Minor	Appreciable	Severe	Low	Medium	High	Very High	Minor 1.0 to 1.22	Appreciable 1.2 to 1.52		Severe 1.52+
	SCR confluence ~ Railroad	0.020						0.010			0.005		0.000				0.005				1.000			0.040
	SCR confluence ~ Railroad	0.020						0.010			0.005		0.000				0.005				1.000			0.040

OVERBANKS West Right

Columns		nb				n1				n2			n3			n4				n5			n		
Classification	Description of Reach, Station, or Cross-section	Base "n"				Surface Irregularity				Variations in Size and Shape of Cross-section			Obstructions			Vegetation				Meandering			Total "n" (nb+n1+n2+n3+n4)*n5		
		0.020	0.025	0.024	0.028	0.000	0.005	0.010	0.020	0.000	0.005	0.010	0.000	0.010	0.020	0.040	0.005	0.010	0.025	0.050	1.000	1.150		1.300	
		Earth	Rock	Fine Gravel	Coarse Gravel	Smooth	Minor	Moderate	Severe	Straight Gradual	Occasional Shifting	Frequent Shifting	Negligible	Minor	Appreciable	Severe	Low	Medium	High	Very High	Minor 1.0 to 1.22	Appreciable 1.2 to 1.52		Severe 1.52+	
	SCR confluence ~ Railroad (Medium farm land, residential and tree coverage)																							0.075	
	Railroad ~ US study boundary (Medium farm land, residential and tree coverage)																								0.075

OVERBANKS Left East

Columns		nb				n1				n2			n3			n4				n5			n		
Classification	Description of Reach, Station, or Cross-section	Base "n"				Surface Irregularity				Variations in Size and Shape of Cross-section			Obstructions			Vegetation				Meandering			Total "n" (nb+n1+n2+n3+n4)*n5		
		0.020	0.025	0.024	0.028	0.000	0.005	0.010	0.020	0.000	0.005	0.010	0.000	0.010	0.020	0.040	0.005	0.010	0.025	0.050	1.000	1.150		1.300	
		Earth	Rock	Fine Gravel	Coarse Gravel	Smooth	Minor	Moderate	Severe	Straight Gradual	Occasional Shifting	Frequent Shifting	Negligible	Minor	Appreciable	Severe	Low	Medium	High	Very High	Minor 1.0 to 1.22	Appreciable 1.2 to 1.52		Severe 1.52+	
	SCR confluence ~ Railroad (Medium farm land, residential and tree coverage)																							0.075	
	Railroad ~ US study boundary (Medium farm land, residential and tree coverage)																								0.075

 : Not calculated from Cowan's method

Adams Barranca

Columns		nb				n1				n2			n3			n4				n5			n		
Classification	Description of Reach, Station, or section	Cross-section	Base "n"				Surface Irregularity				Variations in Size and Shape of Cross-section			Obstructions			Vegetation				Meandering			Total "n" (nb+n1+n2+n3+n4)*n5	
			0.020	0.025	0.024	0.028	0.000	0.005	0.010	0.020	0.000	0.005	0.010	0.000	0.010	0.020	0.040	0.005	0.010	0.025	0.050	1.000	1.150		1.300
			Earth	Rock	Fine Gravel	Coarse Gravel	Smooth	Minor	Moderate	Severe	Straight Gradual	Occasional Shifting	Frequent Shifting	Negligible	Minor	Appreciable	Severe	Low	Medium	High	Very High	Minor 1.0 to 1.22	Appreciable 1.2 to 1.52		Severe 1.52+
	SCR confluence ~ Todd Lane																							0.035	
	Todd Lane ~ Telegraph Road																							0.040	
	Telegraph road ~ US study boundary (5.4 miles US of Foothill Road)																							0.046	

OVERBANKS Right West

Columns		nb				n1				n2			n3			n4				n5			n		
Classification	Description of Reach, Station, or section	Cross-section	Base "n"				Surface Irregularity				Variations in Size and Shape of Cross-section			Obstructions			Vegetation				Meandering			Total "n" (nb+n1+n2+n3+n4)*n5	
			0.020	0.025	0.024	0.028	0.000	0.005	0.010	0.020	0.000	0.005	0.010	0.000	0.010	0.020	0.040	0.005	0.010	0.025	0.050	1.000	1.150		1.300
			Earth	Rock	Fine Gravel	Coarse Gravel	Smooth	Minor	Moderate	Severe	Straight Gradual	Occasional Shifting	Frequent Shifting	Negligible	Minor	Appreciable	Severe	Low	Medium	High	Very High	Minor 1.0 to 1.22	Appreciable 1.2 to 1.52		Severe 1.52+
	SCR confluence ~ Todd Lane (Medium farm land, residential and tree coverage)																							0.075	
	Todd Lane ~ Telegraph Road (Medium farm land, residential and tree coverage)																							0.075	
	Telegraph road ~ US study boundary (5.4 miles US of Foothill Road) (Medium farm land, residential and tree coverage)																							0.075	

OVERBANKS Left East

Columns		nb				n1				n2			n3			n4				n5			n		
Classification	Description of Reach, Station, or section	Cross-section	Base "n"				Surface Irregularity				Variations in Size and Shape of Cross-section			Obstructions			Vegetation				Meandering			Total "n" (nb+n1+n2+n3+n4)*n5	
			0.020	0.025	0.024	0.028	0.000	0.005	0.010	0.020	0.000	0.005	0.010	0.000	0.010	0.020	0.040	0.005	0.010	0.025	0.050	1.000	1.150		1.300
			Earth	Rock	Fine Gravel	Coarse Gravel	Smooth	Minor	Moderate	Severe	Straight Gradual	Occasional Shifting	Frequent Shifting	Negligible	Minor	Appreciable	Severe	Low	Medium	High	Very High	Minor 1.0 to 1.22	Appreciable 1.2 to 1.52		Severe 1.52+
	SCR confluence ~ Todd Lane (Medium farm land, residential and tree coverage)																							0.075	
	Todd Lane ~ Telegraph Road (Medium farm land, residential and tree coverage)																							0.075	
	Telegraph road ~ US study boundary (5.4 miles US of Foothill Road) (Medium farm land, residential and tree coverage)																							0.075	

 : Not calculated from Cowan's method

Peck Road Drain

Columns		nb				n1				n2			n3				n4				n5			n		
Classification	Description of Reach, Station, or section	Cross-	Base "n"				Surface Irregularity				Variations in Size and Shape of Cross-section			Obstructions				Vegetation				Meandering			Total "n" (nb+n1+n2+n3+n4)*n5	
			0.020	0.025	0.024	0.028	0.000	0.005	0.010	0.020	0.000	0.005	0.010	0.000	0.010	0.020	0.040	0.005	0.010	0.025	0.050	0.050	1.000	1.150		1.300
			Earth	Rock	Fine Gravel	Coarse Gravel	Smooth	Minor	Moderate	Severe	Straight Gradual	Occasional Shifting	Frequent Shifting	Negligible	Minor	Appreciable	Severe	Low	Medium	High	Very High	Minor 1.0 to 1.22	Appreciable 1.2 to 1.52	Severe 1.52+		
	SCR confluence ~ Todd Lane		0.015				0.000				0.000				0.000						1.000			0.015		
	Todd Lane ~ Fillmore Street		0.015				0.000				0.000				0.000						1.000			0.015		
	Fillmore Street ~ Foothill Road		0.020							0.005			0.005		0.000						1.000			0.030		

OVERBANKS West Right

Columns		nb				n1				n2			n3				n4				n5			n		
Classification	Description of Reach, Station, or section	Cross-	Base "n"				Surface Irregularity				Variations in Size and Shape of Cross-section			Obstructions				Vegetation				Meandering			Total "n" (nb+n1+n2+n3+n4)*n5	
			0.020	0.025	0.024	0.028	0.000	0.005	0.010	0.020	0.000	0.005	0.010	0.000	0.010	0.020	0.040	0.005	0.010	0.025	0.050	0.050	1.000	1.150		1.300
			Earth	Rock	Fine Gravel	Coarse Gravel	Smooth	Minor	Moderate	Severe	Straight Gradual	Occasional Shifting	Frequent Shifting	Negligible	Minor	Appreciable	Severe	Low	Medium	High	Very High	Minor 1.0 to 1.22	Appreciable 1.2 to 1.52	Severe 1.52+		
	SCR confluence ~ Todd Lane (Medium farm land and grazing land)																							0.060		
	Todd Lane ~ Fillmore Street (Urban and farm land)																							0.095		
	Fillmore Street ~ Foothill Road (Medium tree coverage and farm land and residential)																							0.075		

OVERBANKS Left East

Columns		nb				n1				n2			n3				n4				n5			n		
Classification	Description of Reach, Station, or section	Cross-	Base "n"				Surface Irregularity				Variations in Size and Shape of Cross-section			Obstructions				Vegetation				Meandering			Total "n" (nb+n1+n2+n3+n4)*n5	
			0.020	0.025	0.024	0.028	0.000	0.005	0.010	0.020	0.000	0.005	0.010	0.000	0.010	0.020	0.040	0.005	0.010	0.025	0.050	0.050	1.000	1.150		1.300
			Earth	Rock	Fine Gravel	Coarse Gravel	Smooth	Minor	Moderate	Severe	Straight Gradual	Occasional Shifting	Frequent Shifting	Negligible	Minor	Appreciable	Severe	Low	Medium	High	Very High	Minor 1.0 to 1.22	Appreciable 1.2 to 1.52	Severe 1.52+		
	SCR confluence ~ Todd Lane (Medium farm land and grazing land)																							0.060		
	Todd Lane ~ Fillmore Street (Medium residential)																							0.130		
	Fillmore Street ~ Foothill Road (Medium residential)																							0.130		

 : Not calculated from Cowan's method

Fagan Canyon

Columns		nb				n1				n2			n3			n4				n5			n	
Classification	Description of Reach, Station, or Cross-section	Base "n"				Surface Irregularity				Variations in Size and Shape of Cross-section			Obstructions			Vegetation				Meandering			Total "n" (nb+n1+n2+n3+n4)*n5	
		0.020	0.025	0.024	0.028	0.000	0.005	0.010	0.020	0.000	0.005	0.010	0.000	0.010	0.020	0.040	0.005	0.010	0.025	0.050	1.000	1.150		1.300
		Earth	Rock	Fine Gravel	Coarse Gravel	Smooth	Minor	Moderate	Severe	Straight Gradual	Occasional Shifting	Frequent Shifting	Negligible	Minor	Appreciable	Severe	Low	Medium	High	Very High	Minor 1.0 to 1.22	Appreciable 1.2 to 1.52		Severe 1.52+
	SCR confluence ~ Long Culvert	0.015				0.000				0.000			0.000			0.000				1.000			0.015	
	Long Culvert ~ Santa Paula Street	0.020					0.005				0.005		0.000			0.005				1.000			0.035	
	Santa Paula Street ~ US study boundary (3.1 miles US of Santa Paula Road)	0.020					0.005				0.005		0.000			0.010					1.200		0.048	

OVERBANKS Right West

Columns		nb				n1				n2			n3			n4				n5			n	
Classification	Description of Reach, Station, or Cross-section	Base "n"				Surface Irregularity				Variations in Size and Shape of Cross-section			Obstructions			Vegetation				Meandering			Total "n" (nb+n1+n2+n3+n4)*n5	
		0.020	0.025	0.024	0.028	0.000	0.005	0.010	0.020	0.000	0.005	0.010	0.000	0.010	0.020	0.040	0.005	0.010	0.025	0.050	1.000	1.150		1.300
		Earth	Rock	Fine Gravel	Coarse Gravel	Smooth	Minor	Moderate	Severe	Straight Gradual	Occasional Shifting	Frequent Shifting	Negligible	Minor	Appreciable	Severe	Low	Medium	High	Very High	Minor 1.0 to 1.22	Appreciable 1.2 to 1.52		Severe 1.52+
	SCR confluence ~Long culvert (Medium Residential)																						0.130	
	Long culvert ~ Santa Paula Street (Medium Residential)																						0.130	
	Santa Paula Street ~ US study boundary (3.1 miles US of Santa Paula Road) (Medium tree coverage and moutians)																						0.075	

OVERBANKS Left East

Columns		nb				n1				n2			n3			n4				n5			n	
Classification	Description of Reach, Station, or Cross-section	Base "n"				Surface Irregularity				Variations in Size and Shape of Cross-section			Obstructions			Vegetation				Meandering			Total "n" (nb+n1+n2+n3+n4)*n5	
		0.020	0.025	0.024	0.028	0.000	0.005	0.010	0.020	0.000	0.005	0.010	0.000	0.010	0.020	0.040	0.005	0.010	0.025	0.050	1.000	1.150		1.300
		Earth	Rock	Fine Gravel	Coarse Gravel	Smooth	Minor	Moderate	Severe	Straight Gradual	Occasional Shifting	Frequent Shifting	Negligible	Minor	Appreciable	Severe	Low	Medium	High	Very High	Minor 1.0 to 1.22	Appreciable 1.2 to 1.52		Severe 1.52+
	SCR confluence ~ Long culvert (Medium Residential)																						0.130	
	Long culvert ~ Santa Paula Street (Medium Residential)																						0.130	
	Santa Paula Street ~ US study boundary (3.1 miles US of Santa Paula Road) (Medium Residential, moutians and medium tree coverage)																						0.080	

 : Not calculated from Cowan's method

Santa Paula Creek

Columns		nb				n1				n2			n3			n4				n5			n				
Classification	Description of Reach, Station, or section	Cross-section	Base "n"				Surface Irregularity				Variations in Size and Shape of Cross-section			Obstructions			Vegetation				Meandering			Total "n" (nb+n1+n2+n3+n4)*n5			
			0.020	0.025	0.024	0.028	0.000	0.005	0.010	0.020	0.000	0.005	0.010	0.015	0.000	0.010	0.020	0.040	0.005	0.010	0.025	0.050	0.100		1.000	1.150	1.300
			Earth	Rock	Fine Gravel	Coarse Gravel	Smooth	Minor	Moderate	Severe	Straight Gradual	Occasional Shifting	Frequent Shifting	Negligible	Minor	Appreciable	Severe	Low	Medium	High	Very High	Minor 1.0 to 1.22	Appreciable 1.2 to 1.52		Severe 1.52+		
	SCR confluence ~ Highway 126		0.020																							0.035	
	Highway 126 ~ about 1 mile US of railroad bridge			0.025																						0.030	
	about 1 mile US of railroad bridge ~ Bridge Road		0.020																						1.200	0.042	
	Bridge Road ~ US study boundary		0.020						0.010																1.200	0.048	

OVERBANKS Right West

Columns		nb				n1				n2			n3			n4				n5			n				
Classification	Description of Reach, Station, or section	Cross-section	Base "n"				Surface Irregularity				Variations in Size and Shape of Cross-section			Obstructions			Vegetation				Meandering			Total "n" (nb+n1+n2+n3+n4)*n5			
			0.020	0.025	0.024	0.028	0.000	0.005	0.010	0.020	0.000	0.005	0.010	0.015	0.000	0.010	0.020	0.040	0.005	0.010	0.025	0.050	0.100		1.000	1.150	1.300
			Earth	Rock	Fine Gravel	Coarse Gravel	Smooth	Minor	Moderate	Severe	Straight Gradual	Occasional Shifting	Frequent Shifting	Negligible	Minor	Appreciable	Severe	Low	Medium	High	Very High	Minor 1.0 to 1.22	Appreciable 1.2 to 1.52		Severe 1.52+		
	SCR confluence ~ Highway 126 (Plain land and little urban) (Medium residential)																									0.055	
	Highway 126 ~ about 1 mile US of railroad bridge (Medium residential)																									0.130	
	about 1 mile US of railroad bridge ~ Bridge Road (Medium residential)																									0.130	
	Bridge Road ~ US study boundary (Medium tree coverage, residential and mountains)																									0.090	

OVERBANKS Left East

Columns		nb				n1				n2			n3			n4				n5			n				
Classification	Description of Reach, Station, or section	Cross-section	Base "n"				Surface Irregularity				Variations in Size and Shape of Cross-section			Obstructions			Vegetation				Meandering			Total "n" (nb+n1+n2+n3+n4)*n5			
			0.020	0.025	0.024	0.028	0.000	0.005	0.010	0.020	0.000	0.005	0.010	0.015	0.000	0.010	0.020	0.040	0.005	0.010	0.025	0.050	0.100		1.000	1.150	1.300
			Earth	Rock	Fine Gravel	Coarse Gravel	Smooth	Minor	Moderate	Severe	Straight Gradual	Occasional Shifting	Frequent Shifting	Negligible	Minor	Appreciable	Severe	Low	Medium	High	Very High	Minor 1.0 to 1.22	Appreciable 1.2 to 1.52		Severe 1.52+		
	SCR confluence ~ Highway 126 (Industrial land and plain land)																									0.055	
	Highway 126 ~ about 1 mile US of railroad bridge (Medium tree coverage and residential)																									0.085	
	about 1 mile US of railroad bridge ~ Bridge Road (Medium tree coverage and farming land)																									0.075	
	Bridge Road ~ US study boundary (Medium tree coverage, farming land and mountains)																									0.075	

Not calculated from Cowan's method

Timber Canyon

Columns		nb				n1				n2			n3			n4				n5			n				
Classification	Description of Reach, Station, or section	Cross-	Base "n"				Surface Irregularity				Variations in Size and Shape of Cross-section			Obstructions			Vegetation				Meandering			Total "n" (nb+n1+n2+n3+n4)*n5			
			0.020	0.025	0.024	0.028	0.000	0.005	0.010	0.020	0.000	0.005	0.010	0.000	0.010	0.020	0.040	0.005	0.010	0.025	0.050	1.000	1.150		1.300		
			Earth	Rock	Fine Gravel	Coarse Gravel	Smooth	Minor	Moderate	Severe	Straight Gradual	Occasional Shifting	Frequent Shifting	Negligible	Minor	Appreciable	Severe	Low	Medium	High	Very High	Minor 1.0 to 1.22	Appreciable 1.2 to 1.52		Severe 1.52+		
	SCR confluence ~ Railroad		0.020							0.005				0.005		0.000					0.020			1.000			0.050
	Railroad ~ Highway 126		0.020							0.005				0.005		0.000					0.020				1.150		0.058
	Highway 126 ~ US study boundary		0.020								0.010			0.005		0.000					0.002				1.150		0.043

OVERBANKS Right West

Columns		nb				n1				n2			n3			n4				n5			n				
Classification	Description of Reach, Station, or section	Cross-	Base "n"				Surface Irregularity				Variations in Size and Shape of Cross-section			Obstructions			Vegetation				Meandering			Total "n" (nb+n1+n2+n3+n4)*n5			
			0.020	0.025	0.024	0.028	0.000	0.005	0.010	0.020	0.000	0.005	0.010	0.000	0.010	0.020	0.040	0.005	0.010	0.025	0.050	1.000	1.150		1.300		
			Earth	Rock	Fine Gravel	Coarse Gravel	Smooth	Minor	Moderate	Severe	Straight Gradual	Occasional Shifting	Frequent Shifting	Negligible	Minor	Appreciable	Severe	Low	Medium	High	Very High	Minor 1.0 to 1.22	Appreciable 1.2 to 1.52		Severe 1.52+		
	SCR confluence ~ Railroad (Medium tree coverage and farm land)																										0.065
	Railroad ~ Highway 126 (Medium tree coverage and farm land)																										0.065
	Highway 126 ~ US study boundary (Medium tree coverage and farm land)																										0.065

OVERBANKS Left East

Columns		nb				n1				n2			n3			n4				n5			n				
Classification	Description of Reach, Station, or section	Cross-	Base "n"				Surface Irregularity				Variations in Size and Shape of Cross-section			Obstructions			Vegetation				Meandering			Total "n" (nb+n1+n2+n3+n4)*n5			
			0.020	0.025	0.024	0.028	0.000	0.005	0.010	0.020	0.000	0.005	0.010	0.000	0.010	0.020	0.040	0.005	0.010	0.025	0.050	1.000	1.150		1.300		
			Earth	Rock	Fine Gravel	Coarse Gravel	Smooth	Minor	Moderate	Severe	Straight Gradual	Occasional Shifting	Frequent Shifting	Negligible	Minor	Appreciable	Severe	Low	Medium	High	Very High	Minor 1.0 to 1.22	Appreciable 1.2 to 1.52		Severe 1.52+		
	SCR confluence ~ Railroad (Medium tree coverage and farm land)																										0.065
	Railroad ~ Highway 126 (Medium tree coverage and farm land)																										0.065
	Highway 126 ~ US study boundary (Medium tree coverage and farm land)																										0.065

 : Not calculated from Cowan's method

Balcolm Canyon Wash

Columns		nb				n1				n2			n3			n4				n5			n				
Classification	Description of Reach, Station, or section	Cross-	Base "n"				Surface Irregularity				Variations in Size and Shape of Cross-section			Obstructions			Vegetation				Meandering			Total "n" (nb+n1+n2+n3+n4)*n5			
			0.020	0.025	0.024	0.028	0.000	0.005	0.010	0.020	0.000	0.005	0.010	0.000	0.010	0.020	0.040	0.005	0.010	0.025	0.050	1.000	1.150		1.300		
			Earth	Rock	Fine Gravel	Coarse Gravel	Smooth	Minor	Moderate	Severe	Straight Gradual	Occasional Shifting	Frequent Shifting	Negligible	Minor	Appreciable	Severe	Low	Medium	High	Very High	Minor 1.0 to 1.22	Appreciable 1.2 to 1.52		Severe 1.52+		
	Santa Clara River confluence to the pedestrian crossing		0.020							0.005			0.000											1.000			0.030
	Pedestrian crossing ~ South Mountain Road		0.020							0.005			0.000														0.030
	Upstream of South Mountain Road			0.025						0.005			0.000													1.150	0.040

OVERBANKS Right West

Columns		nb				n1				n2			n3			n4				n5			n					
Classification	Description of Reach, Station, or section	Cross-	Base "n"				Surface Irregularity				Variations in Size and Shape of Cross-section			Obstructions			Vegetation				Meandering			Total "n" (nb+n1+n2+n3+n4)*n5				
			0.020	0.025	0.024	0.028	0.000	0.005	0.010	0.020	0.000	0.005	0.010	0.000	0.010	0.020	0.040	0.005	0.010	0.025	0.050	1.000	1.150		1.300			
			Earth	Rock	Fine Gravel	Coarse Gravel	Smooth	Minor	Moderate	Severe	Straight Gradual	Occasional Shifting	Frequent Shifting	Negligible	Minor	Appreciable	Severe	Low	Medium	High	Very High	Minor 1.0 to 1.22	Appreciable 1.2 to 1.52		Severe 1.52+			
	Santa Clara River confluence to the pedestrian crossing (Medium farm land)																											0.060
	Pedestrian crossing ~ South Mountain Road (Medium farm land)																											0.060
	Upstream of South Mountain Road (Medium tree coverage, farm land and																											0.075

OVERBANKS Left East

Columns		nb				n1				n2			n3			n4				n5			n					
Classification	Description of Reach, Station, or section	Cross-	Base "n"				Surface Irregularity				Variations in Size and Shape of Cross-section			Obstructions			Vegetation				Meandering			Total "n" (nb+n1+n2+n3+n4)*n5				
			0.020	0.025	0.024	0.028	0.000	0.005	0.010	0.020	0.000	0.005	0.010	0.000	0.010	0.020	0.040	0.005	0.010	0.025	0.050	1.000	1.150		1.300			
			Earth	Rock	Fine Gravel	Coarse Gravel	Smooth	Minor	Moderate	Severe	Straight Gradual	Occasional Shifting	Frequent Shifting	Negligible	Minor	Appreciable	Severe	Low	Medium	High	Very High	Minor 1.0 to 1.22	Appreciable 1.2 to 1.52		Severe 1.52+			
	Santa Clara River confluence to the pedestrian crossing (Medium farm land)																											0.060
	Pedestrian crossing ~ South Mountain Road (Medium farm land)																											0.060
	Upstream of South Mountain Road (Medium tree coverage, farm land and moutians)																											0.075

 : Not calculated from Cowan's method

O'leary Creek

Columns		nb				n1				n2			n3			n4				n5			n		
Classification	Description of Reach, Station, or section	Cross-	Base "n"				Surface Irregularity				Variations in Size and Shape of Cross-section			Obstructions			Vegetation				Meandering			Total "n" (nb+n1+n2+n3+n4)*n5	
			0.020	0.025	0.024	0.028	0.000	0.005	0.010	0.020	0.000	0.005	0.010	0.000	0.010	0.020	0.040	0.005	0.010	0.025	0.050	1.000	1.150		1.300
			Earth	Rock	Fine Gravel	Coarse Gravel	Smooth	Minor	Moderate	Severe	Straight Gradual	Occasional Shifting	Frequent Shifting	Negligible	Minor	Appreciable	Severe	Low	Medium	High	Very High	Minor 1.0 to 1.22	Appreciable 1.2 to 1.52		Severe 1.52+
	Santa Clara River confluence to Highway 126							0.010			0.005		0.000					0.020					1.100		0.061
	Highway 126 ~ Hill Road			0.025				0.010			0.005		0.000					0.020					1.100		0.066
	Upstream of Hill Road		0.020					0.010			0.005		0.000					0.020			1.000				0.055

OVERBANKS Right West

Columns		nb				n1				n2			n3			n4				n5			n		
Classification	Description of Reach, Station, or section	Cross-	Base "n"				Surface Irregularity				Variations in Size and Shape of Cross-section			Obstructions			Vegetation				Meandering			Total "n" (nb+n1+n2+n3+n4)*n5	
			0.020	0.025	0.024	0.028	0.000	0.005	0.010	0.020	0.000	0.005	0.010	0.000	0.010	0.020	0.040	0.005	0.010	0.025	0.050	1.000	1.150		1.300
			Earth	Rock	Fine Gravel	Coarse Gravel	Smooth	Minor	Moderate	Severe	Straight Gradual	Occasional Shifting	Frequent Shifting	Negligible	Minor	Appreciable	Severe	Low	Medium	High	Very High	Minor 1.0 to 1.22	Appreciable 1.2 to 1.52		Severe 1.52+
	Santa Clara River confluence to Highway 126 (Farm land and tree coverage)																								0.065
	Highway 126 ~ Hill Road (Farm land and tree coverage)																								0.065
	Upstream of Hill Road (Farm land and tree coverage)																								0.065

OVERBANKS Left East

Columns		nb				n1				n2			n3			n4				n5			n		
Classification	Description of Reach, Station, or section	Cross-	Base "n"				Surface Irregularity				Variations in Size and Shape of Cross-section			Obstructions			Vegetation				Meandering			Total "n" (nb+n1+n2+n3+n4)*n5	
			0.020	0.025	0.024	0.028	0.000	0.005	0.010	0.020	0.000	0.005	0.010	0.000	0.010	0.020	0.040	0.005	0.010	0.025	0.050	1.000	1.150		1.300
			Earth	Rock	Fine Gravel	Coarse Gravel	Smooth	Minor	Moderate	Severe	Straight Gradual	Occasional Shifting	Frequent Shifting	Negligible	Minor	Appreciable	Severe	Low	Medium	High	Very High	Minor 1.0 to 1.22	Appreciable 1.2 to 1.52		Severe 1.52+
	Santa Clara River confluence to Highway 126 (Farm land and tree coverage)																								0.065
	Highway 126 ~ Hill Road (Farm land and tree coverage)																								0.065
	Upstream of Hill Road (Farm land and tree coverage)																								0.065

 : Not calculated from Cowan's method

Reimer Ditch

Columns		nb				n1				n2			n3				n4				n5			n	
Classification	Description of Reach, Station, or Cross-section	Base "n"				Surface Irregularity				Variations in Size and Shape of Cross-section			Obstructions				Vegetation				Meandering			Total "n" (nb+n1+n2+n3+n4)*n5	
		0.020	0.025	0.024	0.028	0.000	0.005	0.010	0.020	0.000	0.005	0.010	0.010	0.020	0.040	0.005	0.010	0.025	0.050	1.000	1.150	1.300			
		Earth	Rock	Fine Gravel	Coarse Gravel	Smooth	Minor	Moderate	Severe	Straight Gradual	Occasional Shifting	Frequent Shifting	Negligible	Minor	Appreciable	Severe	Low	Medium	High	Very High	Minor 1.0 to 1.22	Appreciable 1.2 to 1.52	Severe 1.52+		
	Santa Clara River confluence to the unnamed service road Service Road 18B	0.020				0.000				0.000				0.000					0.020			1.000			0.040
	Upstream of the unnamed service road Service Road 18B		0.025			0.000				0.000				0.000					0.005			1.000			0.030

OVERBANKS Right West

Columns		nb				n1				n2			n3				n4				n5			n		
Classification	Description of Reach, Station, or Cross-section	Base "n"				Surface Irregularity				Variations in Size and Shape of Cross-section			Obstructions				Vegetation				Meandering			Total "n" (nb+n1+n2+n3+n4)*n5		
		0.020	0.025	0.024	0.028	0.000	0.005	0.010	0.020	0.000	0.005	0.010	0.010	0.020	0.040	0.005	0.010	0.025	0.050	1.000	1.150	1.300				
		Earth	Rock	Fine Gravel	Coarse Gravel	Smooth	Minor	Moderate	Severe	Straight Gradual	Occasional Shifting	Frequent Shifting	Negligible	Minor	Appreciable	Severe	Low	Medium	High	Very High	Minor 1.0 to 1.22	Appreciable 1.2 to 1.52	Severe 1.52+			
	Santa Clara River confluence to the unnamed service road Service Road 18B (Farm land and tree coverage)																								0.065	
	Upstream of the unnamed service road Service Road 18B (Farm land and tree coverage)																									0.065

OVERBANKS Left East

Columns		nb				n1				n2			n3				n4				n5			n		
Classification	Description of Reach, Station, or Cross-section	Base "n"				Surface Irregularity				Variations in Size and Shape of Cross-section			Obstructions				Vegetation				Meandering			Total "n" (nb+n1+n2+n3+n4)*n5		
		0.020	0.025	0.024	0.028	0.000	0.005	0.010	0.020	0.000	0.005	0.010	0.010	0.020	0.040	0.005	0.010	0.025	0.050	1.000	1.150	1.300				
		Earth	Rock	Fine Gravel	Coarse Gravel	Smooth	Minor	Moderate	Severe	Straight Gradual	Occasional Shifting	Frequent Shifting	Negligible	Minor	Appreciable	Severe	Low	Medium	High	Very High	Minor 1.0 to 1.22	Appreciable 1.2 to 1.52	Severe 1.52+			
	Santa Clara River confluence to the unnamed service road Service Road 18B (Farm land and tree coverage)																								0.065	
	Upstream of the unnamed service road Service Road 18B (Farm land and tree coverage)																									0.065

 : Not calculated from Cowan's method

Bear Creek

Columns		nb				n1				n2			n3				n4				n5			n			
Classification	Description of Reach, Station, or section	Cross-	Base "n"				Surface Irregularity				Variations in Size and Shape of Cross-section			Obstructions				Vegetation				Meandering			Total "n" (nb+n1+n2+n3+n4)*n5		
			0.020	0.025	0.024	0.028	0.000	0.005	0.010	0.020	0.000	0.005	0.010	0.015	0.000	0.010	0.020	0.040	0.005	0.010	0.025	0.050	0.100	1.000		1.150	1.300
			Earth	Rock	Fine Gravel	Coarse Gravel	Smooth	Minor	Moderate	Severe	Straight Gradual	Occasional Shifting	Frequent Shifting	Negligible	Minor	Appreciable	Severe	Low	Medium	High	Very High	Minor 1.0 to 1.22	Appreciable 1.2 to 1.52	Severe 1.52+			
	Santa Clara River confluence to Highway 126		0.020					0.010			0.005			0.010			0.010					1.000			0.055		
	Highway 126 ~ Railroad Bridge			0.025				0.010			0.005		0.000					0.020				1.000			0.060		
	Railroad Bridge ~ Sycamore Road			0.025				0.005			0.005		0.000					0.020				1.000			0.055		
	Upstream of Sycamore Road		0.020					0.005			0.005		0.000					0.020				1.000			0.050		

OVERBANKS Right West

Columns		nb				n1				n2			n3				n4				n5			n			
Classification	Description of Reach, Station, or section	Cross-	Base "n"				Surface Irregularity				Variations in Size and Shape of Cross-section			Obstructions				Vegetation				Meandering			Total "n" (nb+n1+n2+n3+n4)*n5		
			0.020	0.025	0.024	0.028	0.000	0.005	0.010	0.020	0.000	0.005	0.010	0.015	0.000	0.010	0.020	0.040	0.005	0.010	0.025	0.050	0.100	1.000		1.150	1.300
			Earth	Rock	Fine Gravel	Coarse Gravel	Smooth	Minor	Moderate	Severe	Straight Gradual	Occasional Shifting	Frequent Shifting	Negligible	Minor	Appreciable	Severe	Low	Medium	High	Very High	Minor 1.0 to 1.22	Appreciable 1.2 to 1.52	Severe 1.52+			
	Santa Clara River confluence to Highway 126 (Plain land)																								0.060		
	Highway 126 ~ Railroad Bridge (Farm land and tree coverage)																									0.065	
	Railroad Bridge ~ Sycamore Road (Farm land and tree coverage)																									0.065	
	Upstream of Sycamore Road (Farm land and tree coverage)																									0.065	

OVERBANKS Left East

Columns		nb				n1				n2			n3				n4				n5			n			
Classification	Description of Reach, Station, or section	Cross-	Base "n"				Surface Irregularity				Variations in Size and Shape of Cross-section			Obstructions				Vegetation				Meandering			Total "n" (nb+n1+n2+n3+n4)*n5		
			0.020	0.025	0.024	0.028	0.000	0.005	0.010	0.020	0.000	0.005	0.010	0.015	0.000	0.010	0.020	0.040	0.005	0.010	0.025	0.050	0.100	1.000		1.150	1.300
			Earth	Rock	Fine Gravel	Coarse Gravel	Smooth	Minor	Moderate	Severe	Straight Gradual	Occasional Shifting	Frequent Shifting	Negligible	Minor	Appreciable	Severe	Low	Medium	High	Very High	Minor 1.0 to 1.22	Appreciable 1.2 to 1.52	Severe 1.52+			
	Santa Clara River confluence to Highway 126 (Plain land)																									0.060	
	Highway 126 ~ Railroad Bridge (Farm land and tree coverage)																										0.075
	Railroad Bridge ~ Sycamore Road (Farm land and tree coverage)																										0.065
	Upstream of Sycamore Road (Farm land and tree coverage)																										0.065

 : Not calculated from Cowan's method

Fairview Road Drain

Columns		nb				n1				n2			n3			n4				n5			n					
Classification	Description of Reach, Station, or section	Cross-section	Base "n"				Surface Irregularity				Variations in Size and Shape of Cross-section			Obstructions			Vegetation				Meandering			Total "n" (nb+n1+n2+n3+n4)*n5				
			0.020	0.025	0.024	0.028	0.000	0.005	0.010	0.020	0.000	0.005	0.010	0.000	0.010	0.020	0.040	0.005	0.010	0.025	0.050	1.000	1.150		1.300			
			Earth	Rock	Fine Gravel	Coarse Gravel	Smooth	Minor	Moderate	Severe	Straight Gradual	Occasional Shifting	Frequent Shifting	Negligible	Minor	Appreciable	Severe	Low	Medium	High	Very High	Minor 1.0 to 1.22	Appreciable 1.2 to 1.52		Severe 1.52+			
	Santa Clara River confluence to the Railroad bridge		0.020							0.005				0.005										1.000			0.035	
	The Railroad bridge ~ Highway 126		0.020							0.010				0.005													1.000	0.040
	Upstream of Highway 126		0.015							0.000				0.000													1.000	0.015

OVERBANKS Right West

Columns		nb				n1				n2			n3			n4				n5			n					
Classification	Description of Reach, Station, or section	Cross-section	Base "n"				Surface Irregularity				Variations in Size and Shape of Cross-section			Obstructions			Vegetation				Meandering			Total "n" (nb+n1+n2+n3+n4)*n5				
			0.020	0.025	0.024	0.028	0.000	0.005	0.010	0.020	0.000	0.005	0.010	0.000	0.010	0.020	0.040	0.005	0.010	0.025	0.050	1.000	1.150		1.300			
			Earth	Rock	Fine Gravel	Coarse Gravel	Smooth	Minor	Moderate	Severe	Straight Gradual	Occasional Shifting	Frequent Shifting	Negligible	Minor	Appreciable	Severe	Low	Medium	High	Very High	Minor 1.0 to 1.22	Appreciable 1.2 to 1.52		Severe 1.52+			
	Santa Clara River confluence to the Railroad bridge (Farm land and low tree coverage)																											0.065
	The Railroad bridge ~ Highway 126 (Farm land and tree coverage)																											0.065
	Upstream of Highway 126 (Farm land and tree coverage)																											0.065

OVERBANKS Left East

Columns		nb				n1				n2			n3			n4				n5			n					
Classification	Description of Reach, Station, or section	Cross-section	Base "n"				Surface Irregularity				Variations in Size and Shape of Cross-section			Obstructions			Vegetation				Meandering			Total "n" (nb+n1+n2+n3+n4)*n5				
			0.020	0.025	0.024	0.028	0.000	0.005	0.010	0.020	0.000	0.005	0.010	0.000	0.010	0.020	0.040	0.005	0.010	0.025	0.050	1.000	1.150		1.300			
			Earth	Rock	Fine Gravel	Coarse Gravel	Smooth	Minor	Moderate	Severe	Straight Gradual	Occasional Shifting	Frequent Shifting	Negligible	Minor	Appreciable	Severe	Low	Medium	High	Very High	Minor 1.0 to 1.22	Appreciable 1.2 to 1.52		Severe 1.52+			
	Santa Clara River confluence to the Railroad bridge (Farm land and low tree coverage)																											0.060
	The Railroad bridge ~ Highway 126 (Farm land and tree coverage)																											0.065
	Upstream of Highway 126 (Farm land and tree coverage)																											0.065

 : Not calculated from Cowan's method

Real Canyon

Columns		nb				n1				n2			n3				n4				n5			n	
Classification	Description of Reach, Station, or section	Cross-section	Base "n"				Surface Irregularity				Variations in Size and Shape of Cross-section			Obstructions				Vegetation				Meandering			Total "n" (nb+n1+n2+n3+n4)*n5
			0.020	0.025	0.024	0.028	0.000	0.005	0.010	0.020	0.000	0.005	0.010 0.015	0.000	0.010 0.015	0.020 0.030	0.040 0.060	0.005 0.010	0.010 0.025	0.025 0.050	0.050 0.100	1.000	1.150	1.300	
			Earth	Rock	Fine Gravel	Coarse Gravel	Smooth	Minor	Moderate	Severe	Straight Gradual	Occasional Shifting	Frequent Shifting	Negligible	Minor	Appreciable	Severe	Low	Medium	High	Very High	Minor 1.0 to 1.22	Appreciable 1.2 to 1.52	Severe 1.52+	
	Santa Clara River confluence to Howe Road					0.000				0.000			0.000				0.000				1.000			0.015	
	Howe Road ~ the Railroad					0.000				0.000			0.000				0.000				1.000			0.015	
	The Railroad ~ Camulos Street west branch		0.025							0.000			0.000				0.000				1.000			0.030	
	Upstream of Camulos Street west branch					0.000				0.000			0.000				0.000				1.000			0.015	
	the Railroad ~ Camulos Street east branch					0.000				0.000			0.000				0.000				1.000			0.015	
	Camulos Street ~ Center Street east branch		0.025							0.005		0.005	0.000				0.000				1.000			0.035	
	Upstream of Center Street east branch					0.000				0.000			0.000				0.000				1.000			0.015	

OVERBANKS Right West

Columns		nb				n1				n2			n3				n4				n5			n	
Classification	Description of Reach, Station, or section	Cross-section	Base "n"				Surface Irregularity				Variations in Size and Shape of Cross-section			Obstructions				Vegetation				Meandering			Total "n" (nb+n1+n2+n3+n4)*n5
			0.020	0.025	0.024	0.028	0.000	0.005	0.010	0.020	0.000	0.005	0.010 0.015	0.000	0.010 0.015	0.020 0.030	0.040 0.060	0.005 0.010	0.010 0.025	0.025 0.050	0.050 0.100	1.000	1.150	1.300	
			Earth	Rock	Fine Gravel	Coarse Gravel	Smooth	Minor	Moderate	Severe	Straight Gradual	Occasional Shifting	Frequent Shifting	Negligible	Minor	Appreciable	Severe	Low	Medium	High	Very High	Minor 1.0 to 1.22	Appreciable 1.2 to 1.52	Severe 1.52+	
	Santa Clara River confluence to Howe Road (Farm land, tree coverage and residential)																							0.075	
	Howe Road ~ the Railroad (Farm land, tree coverage and residential)																							0.075	
	The Railroad ~ Camulos Street west branch (Farm land and tree coverage)																							0.070	
	Upstream of Camulos Street west branch (Farm land and tree coverage)																							0.070	
	the Railroad ~ Camulos Street east branch (Farm land and tree coverage)																							0.130	
	Camulos Street ~ Center Street east branch (Farm land and tree coverage)																							0.130	
	Upstream of Center Street east branch (Farm land and tree coverage)																							0.070	

OVERBANKS Left East

Columns		nb				n1				n2			n3				n4				n5			n	
Classification	Description of Reach, Station, or section	Cross-section	Base "n"				Surface Irregularity				Variations in Size and Shape of Cross-section			Obstructions				Vegetation				Meandering			Total "n" (nb+n1+n2+n3+n4)*n5
			0.020	0.025	0.024	0.028	0.000	0.005	0.010	0.020	0.000	0.005	0.010 0.015	0.000	0.010 0.015	0.020 0.030	0.040 0.060	0.005 0.010	0.010 0.025	0.025 0.050	0.050 0.100	1.000	1.150	1.300	
			Earth	Rock	Fine Gravel	Coarse Gravel	Smooth	Minor	Moderate	Severe	Straight Gradual	Occasional Shifting	Frequent Shifting	Negligible	Minor	Appreciable	Severe	Low	Medium	High	Very High	Minor 1.0 to 1.22	Appreciable 1.2 to 1.52	Severe 1.52+	
	Santa Clara River confluence to Howe Road (Farm land, tree coverage and residential)																							0.075	
	Howe Road ~ the Railroad (Farm land, tree coverage and residential)																							0.075	
	The Railroad ~ Camulos Street west branch (Farm land and tree coverage)																							0.070	
	Upstream of Camulos Street west branch (Farm land and tree coverage)																							0.070	
	the Railroad ~ Camulos Street east branch (Medium residential)																							0.070	
	Camulos Street ~ Center Street east branch (Medium residential)																							0.070	
	Upstream of Center Street east branch (Medium residential)																							0.070	

☐ : Not calculated from Cowan's method

Piru Creek

Columns	nb				n1				n2			n3				n4				n5			n	
Classification	Base "n"				Surface Irregularity				Variations in Size and Shape of Cross-section			Obstructions				Vegetation				Meandering			Total "n" (nb+n1+n2+n3+n4)*n5	
																								0.020
	Earth	Rock	Fine Gravel	Coarse Gravel	Smooth	Minor	Moderate	Severe	Straight Gradual	Occasional Shifting	Frequent Shifting	Negligible	Minor	Appreciable	Severe	Low	Medium	High	Very High	Minor 1.0 to 1.22	Appreciable 1.2 to 1.52	Severe 1.52+		
SCR confluence ~ Highway 126	0.020					0.005				0.005			0.000				0.005				1.000			0.035
Highway 126 ~ US study boundary	0.020					0.005				0.005			0.000				0.005					1.200		0.042

OVERBANKS Right West

Columns	nb				n1				n2			n3				n4				n5			n	
Classification	Base "n"				Surface Irregularity				Variations in Size and Shape of Cross-section			Obstructions				Vegetation				Meandering			Total "n" (nb+n1+n2+n3+n4)*n5	
																								0.020
	Earth	Rock	Fine Gravel	Coarse Gravel	Smooth	Minor	Moderate	Severe	Straight Gradual	Occasional Shifting	Frequent Shifting	Negligible	Minor	Appreciable	Severe	Low	Medium	High	Very High	Minor 1.0 to 1.22	Appreciable 1.2 to 1.52	Severe 1.52+		
SCR confluence ~ Highway 126 (Farm land and tree coverage)																								0.060
Highway 126 ~ US study boundary (Residential, farm land, tree coverage and mountains)																								0.070

OVERBANKS Left East

Columns	nb				n1				n2			n3				n4				n5			n	
Classification	Base "n"				Surface Irregularity				Variations in Size and Shape of Cross-section			Obstructions				Vegetation				Meandering			Total "n" (nb+n1+n2+n3+n4)*n5	
																								0.020
	Earth	Rock	Fine Gravel	Coarse Gravel	Smooth	Minor	Moderate	Severe	Straight Gradual	Occasional Shifting	Frequent Shifting	Negligible	Minor	Appreciable	Severe	Low	Medium	High	Very High	Minor 1.0 to 1.22	Appreciable 1.2 to 1.52	Severe 1.52+		
SCR confluence ~ Highway 126 (Farm land and low trees)																								0.055
Highway 126 ~ US study boundary (Mountians)																								0.070

 : Not calculated from Cowan's method

Santa Clara River

Columns		nb				n1				n2			n3				n4				n5			n			
Classification	Description of Reach, Station, or Cross-section	Base "n"				Surface Irregularity				Variations in Size and Shape of Cross-section			Obstructions				Vegetation				Meandering			Total "n" (nb+n1+n2+n3+n4)*n5			
		0.020	0.025	0.024	0.028	0.000	0.005	0.010	0.020	0.000	0.005	0.010	0.000	0.010	0.020	0.040	0.005	0.010	0.025	0.050	1.000	1.150	1.300				
		Earth	Rock	Fine Gravel	Coarse Gravel	Smooth	Minor	Moderate	Severe	Straight Gradual	Occasional Shifting	Frequent Shifting	Negligible	Minor	Appreciable	Severe	Low	Medium	High	Very High	Minor 1.0 to 1.22	Appreciable 1.2 to 1.52	Severe 1.52+				
	DS study limit to 9,500 ft DS of US study limit	0.020					0.005					0.005			0.000					0.010				1.100			0.044
	9,500 ft DS of US study limit to US study limit	0.020					0.005					0.005			0.000					0.010				1.100			0.044

OVERBANKS RIGHT West

Columns		nb				n1				n2			n3				n4				n5			n			
Classification	Description of Reach, Station, or Cross-section	Base "n"				Surface Irregularity				Variations in Size and Shape of Cross-section			Obstructions				Vegetation				Meandering			Total "n" (nb+n1+n2+n3+n4)*n5			
		0.020	0.025	0.024	0.028	0.000	0.005	0.010	0.020	0.000	0.005	0.010	0.000	0.010	0.020	0.040	0.005	0.010	0.025	0.050	1.000	1.150	1.300				
		Earth	Rock	Fine Gravel	Coarse Gravel	Smooth	Minor	Moderate	Severe	Straight Gradual	Occasional Shifting	Frequent Shifting	Negligible	Minor	Appreciable	Severe	Low	Medium	High	Very High	Minor 1.0 to 1.22	Appreciable 1.2 to 1.52	Severe 1.52+				
	DS study limit to 9,500 ft DS of US study limit (Undefined brushy open space and pasture land)																										0.050
	9,500 ft DS of US study limit to US study limit (Undefined brushy open space)																										0.050

OVERBANKS LEFT East

Columns		nb				n1				n2			n3				n4				n5			n			
Classification	Description of Reach, Station, or Cross-section	Base "n"				Surface Irregularity				Variations in Size and Shape of Cross-section			Obstructions				Vegetation				Meandering			Total "n" (nb+n1+n2+n3+n4)*n5			
		0.020	0.025	0.024	0.028	0.000	0.005	0.010	0.020	0.000	0.005	0.010	0.000	0.010	0.020	0.040	0.005	0.010	0.025	0.050	1.000	1.150	1.300				
		Earth	Rock	Fine Gravel	Coarse Gravel	Smooth	Minor	Moderate	Severe	Straight Gradual	Occasional Shifting	Frequent Shifting	Negligible	Minor	Appreciable	Severe	Low	Medium	High	Very High	Minor 1.0 to 1.22	Appreciable 1.2 to 1.52	Severe 1.52+				
	DS study limit to 9,500 ft DS of US study limit (Undefined brushy open space and pasture land)																										0.050
	9,500 ft DS of US study limit to US study limit (Undefined brushy open space and low density residential)																										0.060

 : Not calculated from Cowan's method

Potrero Canyon

Columns	nb				n1				n2			n3			n4				n5			n		
Classification	Base "n"				Surface Irregularity				Variations in Size and Shape of Cross-section			Obstructions			Vegetation				Meandering			Total "n" (nb+n1+n2+n3+n4)*n5		
																							0.020	0.025
	Earth	Rock	Fine Gravel	Coarse Gravel	Smooth	Minor	Moderate	Severe	Straight Gradual	Occasional Shifting	Frequent Shifting	Negligible	Minor	Appreciable	Severe	Low	Medium	High	Very High	Minor 1.0 to 1.22	Appreciable 1.2 to 1.52		Severe 1.52+	
DS study limit to US study limit	0.020					0.005					0.005		0.000				0.010				1.100			0.044

OVERBANKS RIGHT West

Columns	nb				n1				n2			n3			n4				n5			n		
Classification	Base "n"				Surface Irregularity				Variations in Size and Shape of Cross-section			Obstructions			Vegetation				Meandering			Total "n" (nb+n1+n2+n3+n4)*n5		
																							0.020	0.025
	Earth	Rock	Fine Gravel	Coarse Gravel	Smooth	Minor	Moderate	Severe	Straight Gradual	Occasional Shifting	Frequent Shifting	Negligible	Minor	Appreciable	Severe	Low	Medium	High	Very High	Minor 1.0 to 1.22	Appreciable 1.2 to 1.52		Severe 1.52+	
DS study limit to US study limit (Undefined open brusy space and farmland)																								0.050

OVERBANKS LEFT East

Columns	nb				n1				n2			n3			n4				n5			n		
Classification	Base "n"				Surface Irregularity				Variations in Size and Shape of Cross-section			Obstructions			Vegetation				Meandering			Total "n" (nb+n1+n2+n3+n4)*n5		
																							0.020	0.025
	Earth	Rock	Fine Gravel	Coarse Gravel	Smooth	Minor	Moderate	Severe	Straight Gradual	Occasional Shifting	Frequent Shifting	Negligible	Minor	Appreciable	Severe	Low	Medium	High	Very High	Minor 1.0 to 1.22	Appreciable 1.2 to 1.52		Severe 1.52+	
DS study limit to US study limit (Undefined open brusy space and farmland)																								0.050

 : Not calculated from Cowan's method

San Martinez Grande Canyon

Columns		nb				n1				n2			n3				n4				n5			n		
Classification	Description of Reach, Station, or Cross-section	Base "n"				Surface Irregularity				Variations in Size and Shape of Cross-section			Obstructions				Vegetation				Meandering			Total "n" (nb+n1+n2+n3+n4)*n5		
		0.020	0.025	0.024	0.028	0.000	0.005	0.010	0.020	0.000	0.005	0.010	0.000	0.010	0.020	0.040	0.005	0.010	0.025	0.050	1.000	1.150	1.300			
		Earth	Rock	Fine Gravel	Coarse Gravel	Smooth	Minor	Moderate	Severe	Straight Gradual	Occasional Shifting	Frequent Shifting	Negligible	Minor	Appreciable	Severe	Low	Medium	High	Very High	Minor 1.0 to 1.22	Appreciable 1.2 to 1.52	Severe 1.52+			
	DS study limit to Unnamed Dirt Road 1	0.020					0.005					0.005			0.000				0.010				1.100			0.044
	Unnamed Dirt Road 1 to US study limit	0.020					0.005					0.005			0.000				0.010				1.100			0.044

OVERBANKS RIGHT West

Columns		nb				n1				n2			n3				n4				n5			n		
Classification	Description of Reach, Station, or Cross-section	Base "n"				Surface Irregularity				Variations in Size and Shape of Cross-section			Obstructions				Vegetation				Meandering			Total "n" (nb+n1+n2+n3+n4)*n5		
		0.020	0.025	0.024	0.028	0.000	0.005	0.010	0.020	0.000	0.005	0.010	0.000	0.010	0.020	0.040	0.005	0.010	0.025	0.050	1.000	1.150	1.300			
		Earth	Rock	Fine Gravel	Coarse Gravel	Smooth	Minor	Moderate	Severe	Straight Gradual	Occasional Shifting	Frequent Shifting	Negligible	Minor	Appreciable	Severe	Low	Medium	High	Very High	Minor 1.0 to 1.22	Appreciable 1.2 to 1.52	Severe 1.52+			
	DS study limit to Unnamed Dirt Road 1 (farmland, residential and open brushy space)																									0.070
	Unnamed Dirt Road 1 to US study limit (open brushy space)																									0.060

OVERBANKS LEFT East

Columns		nb				n1				n2			n3				n4				n5			n		
Classification	Description of Reach, Station, or Cross-section	Base "n"				Surface Irregularity				Variations in Size and Shape of Cross-section			Obstructions				Vegetation				Meandering			Total "n" (nb+n1+n2+n3+n4)*n5		
		0.020	0.025	0.024	0.028	0.000	0.005	0.010	0.020	0.000	0.005	0.010	0.000	0.010	0.020	0.040	0.005	0.010	0.025	0.050	1.000	1.150	1.300			
		Earth	Rock	Fine Gravel	Coarse Gravel	Smooth	Minor	Moderate	Severe	Straight Gradual	Occasional Shifting	Frequent Shifting	Negligible	Minor	Appreciable	Severe	Low	Medium	High	Very High	Minor 1.0 to 1.22	Appreciable 1.2 to 1.52	Severe 1.52+			
	DS study limit to Unnamed Dirt Road 1 (farmland, residential and open brushy space)																									0.070
	Unnamed Dirt Road 1 to US study limit (open brushy space)																									0.060

 : Not calculated from Cowan's method

San Martinez Chiquito Canyon

Columns		nb				n1				n2			n3				n4				n5			n
Classification	Description of Reach, Station, or Cross-section	Base "n"				Surface Irregularity				Variations in Size and Shape of Cross-section			Obstructions				Vegetation				Meandering			Total "n" (nb+n1+n2+n3+n4)*n5
		0.020	0.025	0.024	0.028	0.000	0.005	0.010	0.020	0.000	0.005	0.010	0.000	0.010	0.020	0.040	0.005	0.010	0.025	0.050	1.000	1.150	1.300	
		Earth	Rock	Fine Gravel	Coarse Gravel	Smooth	Minor	Moderate	Severe	Straight Gradual	Occasional Shifting	Frequent Shifting	Negligible	Minor	Appreciable	Severe	Low	Medium	High	Very High	Minor 1.0 to 1.22	Appreciable 1.2 to 1.52	Severe 1.52+	
	Confluence with Santa Clara River to Chiquito Canyon Road	0.020					0.005				0.005				0.005						1.150			0.040
	Chiquito Canyon to Kensington Road	0.020					0.005				0.005				0.005						1.150			0.040
	Kensington Road to Delwood Street	0.020					0.005				0.005				0.005						1.150			0.040
	Delwood Street to US study limit	0.020					0.005				0.005				0.005						1.150			0.040

OVERBANKS RIGHT West

Columns		nb				n1				n2			n3				n4				n5			n	
Classification	Description of Reach, Station, or Cross-section	Base "n"				Surface Irregularity				Variations in Size and Shape of Cross-section			Obstructions				Vegetation				Meandering			Total "n" (nb+n1+n2+n3+n4)*n5	
		0.020	0.025	0.024	0.028	0.000	0.005	0.010	0.020	0.000	0.005	0.010	0.000	0.010	0.020	0.040	0.005	0.010	0.025	0.050	1.000	1.150	1.300		
		Earth	Rock	Fine Gravel	Coarse Gravel	Smooth	Minor	Moderate	Severe	Straight Gradual	Occasional Shifting	Frequent Shifting	Negligible	Minor	Appreciable	Severe	Low	Medium	High	Very High	Minor 1.0 to 1.22	Appreciable 1.2 to 1.52	Severe 1.52+		
	Confluence with Santa Clara River to Chiquito Canyon Road (brushy open space and agriculture)																							0.060	
	Chiquito Canyon to Kensington Road (residential and brusy open space)																								0.700
	Kensington Road to Delwood Street (brushy open space and agriculture)																								0.050
	Delwood Street to US study limit (brushy open space and agriculture)																								0.050

OVERBANKS LEFT East

Columns		nb				n1				n2			n3				n4				n5			n		
Classification	Description of Reach, Station, or Cross-section	Base "n"				Surface Irregularity				Variations in Size and Shape of Cross-section			Obstructions				Vegetation				Meandering			Total "n" (nb+n1+n2+n3+n4)*n5		
		0.020	0.025	0.024	0.028	0.000	0.005	0.010	0.020	0.000	0.005	0.010	0.000	0.010	0.020	0.040	0.005	0.010	0.025	0.050	1.000	1.150	1.300			
		Earth	Rock	Fine Gravel	Coarse Gravel	Smooth	Minor	Moderate	Severe	Straight Gradual	Occasional Shifting	Frequent Shifting	Negligible	Minor	Appreciable	Severe	Low	Medium	High	Very High	Minor 1.0 to 1.22	Appreciable 1.2 to 1.52	Severe 1.52+			
	Confluence with Santa Clara River to Chiquito Canyon Road (undefined brushy open space and agriculture)																								0.060	
	Chiquito Canyon to Kensington Road (undefined brushy open space, residential and agriculture)																									0.100
	Kensington Road to Delwood Street (undefined brushy open space, residential and agriculture)																									0.100
	Delwood Street to US study limit (undefined brushy open space and residnetial)																									0.050

 : Not calculated from Cowan's method

Long Canyon

Columns		nb				n1				n2			n3				n4				n5			n	
Classification	Description of Reach, Station, or Cross-section	Base "n"				Surface Irregularity				Variations in Size and Shape of Cross-section			Obstructions				Vegetation				Meandering			Total "n" (nb+n1+n2+n3+n4)*n5	
		0.020	0.025	0.024	0.028	0.000	0.005	0.010	0.020	0.000	0.005	0.010	0.000	0.010	0.020	0.040	0.005	0.010	0.025	0.050	1.000	1.150	1.300		
		Earth	Rock	Fine Gravel	Coarse Gravel	Smooth	Minor	Moderate	Severe	Straight Gradual	Occasional Shifting	Frequent Shifting	Negligible	Minor	Appreciable	Severe	Low	Medium	High	Very High	Minor 1.0 to 1.22	Appreciable 1.2 to 1.52	Severe 1.52+		
	DS study limit to 1,000 ft US of DS study limit	0.020					0.005				0.005		0.000				0.010					1.100			0.044
	1,000 ft US of DS study limit to US study limit	0.020					0.005				0.005		0.000				0.010					1.100			0.044

OVERBANKS RIGHT West

Columns		nb				n1				n2			n3				n4				n5			n	
Classification	Description of Reach, Station, or Cross-section	Base "n"				Surface Irregularity				Variations in Size and Shape of Cross-section			Obstructions				Vegetation				Meandering			Total "n" (nb+n1+n2+n3+n4)*n5	
		0.020	0.025	0.024	0.028	0.000	0.005	0.010	0.020	0.000	0.005	0.010	0.000	0.010	0.020	0.040	0.005	0.010	0.025	0.050	1.000	1.150	1.300		
		Earth	Rock	Fine Gravel	Coarse Gravel	Smooth	Minor	Moderate	Severe	Straight Gradual	Occasional Shifting	Frequent Shifting	Negligible	Minor	Appreciable	Severe	Low	Medium	High	Very High	Minor 1.0 to 1.22	Appreciable 1.2 to 1.52	Severe 1.52+		
	DS study limit to 1,000 ft US of DS study limit (farm land)																								0.045
	1,000 ft US of DS study limit to US study limit (brushy open space)																								0.050

OVERBANKS LEFT East

Columns		nb				n1				n2			n3				n4				n5			n	
Classification	Description of Reach, Station, or Cross-section	Base "n"				Surface Irregularity				Variations in Size and Shape of Cross-section			Obstructions				Vegetation				Meandering			Total "n" (nb+n1+n2+n3+n4)*n5	
		0.020	0.025	0.024	0.028	0.000	0.005	0.010	0.020	0.000	0.005	0.010	0.000	0.010	0.020	0.040	0.005	0.010	0.025	0.050	1.000	1.150	1.300		
		Earth	Rock	Fine Gravel	Coarse Gravel	Smooth	Minor	Moderate	Severe	Straight Gradual	Occasional Shifting	Frequent Shifting	Negligible	Minor	Appreciable	Severe	Low	Medium	High	Very High	Minor 1.0 to 1.22	Appreciable 1.2 to 1.52	Severe 1.52+		
	DS study limit to 1,000 ft US of DS study limit (farm land)																								0.045
	1,000 ft US of DS study limit to US study limit (brushy open space)																								0.050

 : Not calculated from Cowan's method

Hasley Canyon

Columns		nb				n1				n2			n3			n4				n5			n			
Classification	Description of Reach, Station, or Cross-section	Base "n"				Surface Irregularity				Variations in Size and Shape of Cross-section			Obstructions			Vegetation				Meandering			Total "n" (nb+n1+n2+n3+n4)*n5			
		0.020	0.025	0.024	0.028	0.000	0.005	0.010	0.020	0.000	0.005	0.010	0.000	0.010	0.020	0.040	0.005	0.010	0.025	0.050	1.000	1.150		1.300		
		Earth	Rock	Fine Gravel	Coarse Gravel	Smooth	Minor	Moderate	Severe	Straight Gradual	Occasional Shifting	Frequent Shifting	Negligible	Minor	Appreciable	Severe	Low	Medium	High	Very High	Minor 1.0 to 1.22	Appreciable 1.2 to 1.52		Severe 1.52+		
	Confluence with Castaic Creek to 1,050 ft DS of Commerce Center Drive (#2)	0.020					0.005				0.005		0.000				0.005							1.150		0.040
	1,050 ft DS of Commerce Center Drive (#2) to 4,200 ft US of Commerce Center Drive (#2)																									0.025
	4,200 ft US of Commerce Center Drive (#2) ~ 1,500 ft DS Romero Road	0.020					0.005				0.005		0.000				0.005								1.150	0.040
	1,500 ft DS Romero Road to 4,000 ft US Romero Road	0.020					0.005				0.005		0.000				0.005								1.150	0.040
	4,000 ft US Romero Road to US study limit	0.020					0.005				0.005		0.000				0.005								1.150	0.040

OVERBANKS RIGHT West

Columns		nb				n1				n2			n3			n4				n5			n			
Classification	Description of Reach, Station, or Cross-section	Base "n"				Surface Irregularity				Variations in Size and Shape of Cross-section			Obstructions			Vegetation				Meandering			Total "n" (nb+n1+n2+n3+n4)*n5			
		0.020	0.025	0.024	0.028	0.000	0.005	0.010	0.020	0.000	0.005	0.010	0.000	0.010	0.020	0.040	0.005	0.010	0.025	0.050	1.000	1.150		1.300		
		Earth	Rock	Fine Gravel	Coarse Gravel	Smooth	Minor	Moderate	Severe	Straight Gradual	Occasional Shifting	Frequent Shifting	Negligible	Minor	Appreciable	Severe	Low	Medium	High	Very High	Minor 1.0 to 1.22	Appreciable 1.2 to 1.52		Severe 1.52+		
	Confluence with Castaic Creek to 1,050 ft DS of Commerce Center Drive (#2) (commercial and undefined brushy open space)																									0.100
	1,050 ft DS of Commerce Center Drive (#2) to 4,200 ft US of Commerce Center Drive (#2) (commercial and undefined brushy open space)																									0.100
	4,200 ft US of Commerce Center Drive (#2) ~ 1,500 ft DS Romero Road (undefined brushy open space)																									0.050
	1,500 ft DS Romero Road to 4,000 ft US Romero Road (residential and undfined brushy open space)																									0.050
	4,000 ft US Romero Road to US study limit (undefined brushy open space)																									0.050

OVERBANKS LEFT East

Columns		nb				n1				n2			n3			n4				n5			n			
Classification	Description of Reach, Station, or Cross-section	Base "n"				Surface Irregularity				Variations in Size and Shape of Cross-section			Obstructions			Vegetation				Meandering			Total "n" (nb+n1+n2+n3+n4)*n5			
		0.020	0.025	0.024	0.028	0.000	0.005	0.010	0.020	0.000	0.005	0.010	0.000	0.010	0.020	0.040	0.005	0.010	0.025	0.050	1.000	1.150		1.300		
		Earth	Rock	Fine Gravel	Coarse Gravel	Smooth	Minor	Moderate	Severe	Straight Gradual	Occasional Shifting	Frequent Shifting	Negligible	Minor	Appreciable	Severe	Low	Medium	High	Very High	Minor 1.0 to 1.22	Appreciable 1.2 to 1.52		Severe 1.52+		
	Confluence with Castaic Creek to 1,050 ft DS of Commerce Center Drive (#2) (undefined brushy open space)																									0.050
	1,050 ft DS of Commerce Center Drive (#2) to 4,200 ft US of Commerce Center Drive (#2) (commercial, residential and undefined brushy open space)																									0.100
	4,200 ft US of Commerce Center Drive (#2) ~ 1,500 ft DS Romero Road (undefined brushy open space)																									0.100
	1,500 ft DS Romero Road to 4,000 ft US Romero Road (residential and undfined brushy open space)																									0.050
	4,000 ft US Romero Road to US study limit (residential and undfined brushy open space)																									0.080

 : Not calculated from Cowan's method

Marple Canyon

Columns		nb				n1				n2			n3				n4				n5			n	
Classification	Description of Reach, Station, or Cross-section	Base "n"				Surface Irregularity				Variations in Size and Shape of Cross-section			Obstructions				Vegetation				Meandering			Total "n" (nb+n1+n2+n3+n4)*n5	
		0.020	0.025	0.024	0.028	0.000	0.005	0.010	0.020	0.000	0.005	0.010	0.000	0.010	0.020	0.040	0.005	0.010	0.025	0.050	1.000	1.150	1.300		
		Earth	Rock	Fine Gravel	Coarse Gravel	Smooth	Minor	Moderate	Severe	Straight Gradual	Occasional Shifting	Frequent Shifting	Negligible	Minor	Appreciable	Severe	Low	Medium	High	Very High	Minor 1.0 to 1.22	Appreciable 1.2 to 1.52	Severe 1.52+		
	Confluence with Violin Canyon to 500 ft US of confluence																							0.015	
	500 ft US of confluence to US of Private Road	0.020					0.005				0.005		0.000				0.005							1.150	0.040
	US of Private Road to 1,000 ft US study limit	0.020					0.005				0.005		0.000				0.005							1.150	0.040

OVERBANKS RIGHT West

Columns		nb				n1				n2			n3				n4				n5			n		
Classification	Description of Reach, Station, or Cross-section	Base "n"				Surface Irregularity				Variations in Size and Shape of Cross-section			Obstructions				Vegetation				Meandering			Total "n" (nb+n1+n2+n3+n4)*n5		
		0.020	0.025	0.024	0.028	0.000	0.005	0.010	0.020	0.000	0.005	0.010	0.000	0.010	0.020	0.040	0.005	0.010	0.025	0.050	1.000	1.150	1.300			
		Earth	Rock	Fine Gravel	Coarse Gravel	Smooth	Minor	Moderate	Severe	Straight Gradual	Occasional Shifting	Frequent Shifting	Negligible	Minor	Appreciable	Severe	Low	Medium	High	Very High	Minor 1.0 to 1.22	Appreciable 1.2 to 1.52	Severe 1.52+			
	Confluence with Violin Canyon to 500 ft US of confluence (undefined brusy open space and residential)																								0.100	
	500 ft US of confluence to US of Private Road (undefined brusy open space)																									0.050
	US of Private Road to US study limit (undefined brusy open space)																									0.050

OVERBANKS LEFT East

Columns		nb				n1				n2			n3				n4				n5			n			
Classification	Description of Reach, Station, or Cross-section	Base "n"				Surface Irregularity				Variations in Size and Shape of Cross-section			Obstructions				Vegetation				Meandering			Total "n" (nb+n1+n2+n3+n4)*n5			
		0.020	0.025	0.024	0.028	0.000	0.005	0.010	0.020	0.000	0.005	0.010	0.000	0.010	0.020	0.040	0.005	0.010	0.025	0.050	1.000	1.150	1.300				
		Earth	Rock	Fine Gravel	Coarse Gravel	Smooth	Minor	Moderate	Severe	Straight Gradual	Occasional Shifting	Frequent Shifting	Negligible	Minor	Appreciable	Severe	Low	Medium	High	Very High	Minor 1.0 to 1.22	Appreciable 1.2 to 1.52	Severe 1.52+				
	Confluence with Violin Canyon to 500 ft US of confluence (undefined brusy open space)																									0.500	
	500 ft US of confluence to US of Private Road (industrial property)																										0.100
	US of Private Road to US study limit (undefined brusy open space)																										0.050

 : Not calculated from Cowan's method

Violin Canyon

Columns		nb				n1				n2			n3			n4				n5			n	
Classification	Description of Reach, Station, or Cross-section	Base "n"				Surface Irregularity				Variations in Size and Shape of Cross-section			Obstructions			Vegetation				Meandering			Total "n" (nb+n1+n2+n3+n4)*n5	
		0.020	0.025	0.024	0.028	0.000	0.005	0.010	0.020	0.000	0.005	0.010	0.000	0.010	0.020	0.040	0.005	0.010	0.025	0.050	1.000	1.150		1.300
		Earth	Rock	Fine Gravel	Coarse Gravel	Smooth	Minor	Moderate	Severe	Straight Gradual	Occasional Shifting	Frequent Shifting	Negligible	Minor	Appreciable	Severe	Low	Medium	High	Very High	Minor 1.0 to 1.22	Appreciable 1.2 to 1.52		Severe 1.52+
	Confluence with Castaic Creek to 1,000 ft DS of Ridge Route	0.020					0.005				0.005		0.000				0.005					1.150		0.040
	1,000 ft DS of Ridge Route to 1,300 ft DS of I-5 South bound																							0.015
	1,300 ft DS of I-5 South bound to I-5 North bound																							0.020
	I-5 North bound to Sierra Oak Trail																							0.015
	Sierra Oak Trail to US study limit	0.020					0.005				0.005		0.000				0.005						1.150	0.040

OVERBANKS RIGHT West

Columns		nb				n1				n2			n3			n4				n5			n	
Classification	Description of Reach, Station, or Cross-section	Base "n"				Surface Irregularity				Variations in Size and Shape of Cross-section			Obstructions			Vegetation				Meandering			Total "n" (nb+n1+n2+n3+n4)*n5	
		0.020	0.025	0.024	0.028	0.000	0.005	0.010	0.020	0.000	0.005	0.010	0.000	0.010	0.020	0.040	0.005	0.010	0.025	0.050	1.000	1.150		1.300
		Earth	Rock	Fine Gravel	Coarse Gravel	Smooth	Minor	Moderate	Severe	Straight Gradual	Occasional Shifting	Frequent Shifting	Negligible	Minor	Appreciable	Severe	Low	Medium	High	Very High	Minor 1.0 to 1.22	Appreciable 1.2 to 1.52		Severe 1.52+
	Confluence with Castaic Creek to 1,000 ft DS of Ridge Route (undefined brushy open space and agriculture)																							0.060
	1,000 ft DS of Ridge Route to 1,300 ft DS of I-5 South bound (commercial, residential and undefined brushy open space)																							0.130
	1,300 ft DS of I-5 South bound to I-5 South bound (residential and undefined brushy open space)																							0.100
	I-5 South bound to Sierra Oak Trail (residential)																							0.130
	Sierra Oak Trail to US study limit (undefined brushy open space)																							0.050

OVERBANKS LEFT East

Columns		nb				n1				n2			n3			n4				n5			n	
Classification	Description of Reach, Station, or Cross-section	Base "n"				Surface Irregularity				Variations in Size and Shape of Cross-section			Obstructions			Vegetation				Meandering			Total "n" (nb+n1+n2+n3+n4)*n5	
		0.020	0.025	0.024	0.028	0.000	0.005	0.010	0.020	0.000	0.005	0.010	0.000	0.010	0.020	0.040	0.005	0.010	0.025	0.050	1.000	1.150		1.300
		Earth	Rock	Fine Gravel	Coarse Gravel	Smooth	Minor	Moderate	Severe	Straight Gradual	Occasional Shifting	Frequent Shifting	Negligible	Minor	Appreciable	Severe	Low	Medium	High	Very High	Minor 1.0 to 1.22	Appreciable 1.2 to 1.52		Severe 1.52+
	Confluence with Castaic Creek to 1,000 ft DS of Ridge Route (undefined brushy open space and agriculture)																							0.060
	1,000 ft DS of Ridge Route to 1,300 ft DS of I-5 South bound (residential, undefined brushy open space)																							0.130
	1,300 ft DS of I-5 South bound to I-5 South bound (undefined brushy open space)																							0.050
	I-5 South bound to Sierra Oak Trail (residential)																							0.130
	Sierra Oak Trail to US study limit (undefined brushy open space)																							0.050

: Not calculated from Cowan's method

Castaic Creek

Columns		nb				n1				n2			n3			n4				n5			n	
Classification	Description of Reach, Station, or Cross-section	Base "n"				Surface Irregularity				Variations in Size and Shape of Cross-section			Obstructions			Vegetation				Meandering			Total "n" (nb+n1+n2+n3+n4)*n5	
		0.020	0.025	0.024	0.028	0.000	0.005	0.010	0.020	0.000	0.005	0.010	0.000	0.010	0.020	0.040	0.005	0.010	0.025	0.050	1.000	1.150		1.300
		Earth	Rock	Fine Gravel	Coarse Gravel	Smooth	Minor	Moderate	Severe	Straight Gradual	Occasional Shifting	Frequent Shifting	Negligible	Minor	Appreciable	Severe	Low	Medium	High	Very High	Minor 1.0 to 1.22	Appreciable 1.2 to 1.52		Severe 1.52+
	Confluence with Santa Clara River to HWY 126	0.020					0.005				0.005						0.010					1.150		0.05
	HWY 126 to 2,500 ft DS of I-5	0.020					0.005				0.005						0.010					1.150		0.05
	2,500 ft DS of I-5 to Tapia Canyon Road	0.020					0.005				0.005						0.010					1.150		0.05
	Tapia Canyon Road to US study limit	0.020					0.005				0.005						0.010					1.150		0.05

OVERBANKS RIGHT West

Columns		nb				n1				n2			n3			n4				n5			n	
Classification	Description of Reach, Station, or Cross-section	Base "n"				Surface Irregularity				Variations in Size and Shape of Cross-section			Obstructions			Vegetation				Meandering			Total "n" (nb+n1+n2+n3+n4)*n5	
		0.020	0.025	0.024	0.028	0.000	0.005	0.010	0.020	0.000	0.005	0.010	0.000	0.010	0.020	0.040	0.005	0.010	0.025	0.050	1.000	1.150		1.300
		Earth	Rock	Fine Gravel	Coarse Gravel	Smooth	Minor	Moderate	Severe	Straight Gradual	Occasional Shifting	Frequent Shifting	Negligible	Minor	Appreciable	Severe	Low	Medium	High	Very High	Minor 1.0 to 1.22	Appreciable 1.2 to 1.52		Severe 1.52+
	Confluence with Santa Clara River to HWY 126 (undefined brushy open space and agriculture)																							0.060
	HWY 126 to 2,500 ft DS of I-5 (undefined brushy open space, commercial and agriculture)																							0.070
	2,500 ft DS of I-5 to Tapia Canyon Road (undefined brushy open space, residential and agriculture)																							0.045
	Tapia Canyon Road to US study limit (undefined brushy open space)																							0.050

OVERBANKS LEFT East

Columns		nb				n1				n2			n3			n4				n5			n	
Classification	Description of Reach, Station, or Cross-section	Base "n"				Surface Irregularity				Variations in Size and Shape of Cross-section			Obstructions			Vegetation				Meandering			Total "n" (nb+n1+n2+n3+n4)*n5	
		0.020	0.025	0.024	0.028	0.000	0.005	0.010	0.020	0.000	0.005	0.010	0.000	0.010	0.020	0.040	0.005	0.010	0.025	0.050	1.000	1.150		1.300
		Earth	Rock	Fine Gravel	Coarse Gravel	Smooth	Minor	Moderate	Severe	Straight Gradual	Occasional Shifting	Frequent Shifting	Negligible	Minor	Appreciable	Severe	Low	Medium	High	Very High	Minor 1.0 to 1.22	Appreciable 1.2 to 1.52		Severe 1.52+
	Confluence with Santa Clara River to HWY 126 (undefined brushy open space and residential)																							0.070
	HWY 126 to 2,500 ft DS of I-5 (undefined brushy open space, commercial and agriculture)																							0.070
	2,500 ft DS of I-5 to Tapia Canyon Road (undefined brushy open space, residential and agriculture)																							0.045
	Tapia Canyon Road to US study limit (undefined brushy open space)																							0.050

 : Not calculated from Cowan's method

Lion Canyon

Columns	nb				n1				n2			n3			n4				n5			n					
Classification	Base "n"				Surface Irregularity				Variations in Size and Shape of Cross-section			Obstructions			Vegetation				Meandering			Total "n" (nb+n1+n2+n3+n4)*n5					
																							0.020	0.025	0.024	0.028	0.000
	Earth	Rock	Fine Gravel	Coarse Gravel	Smooth	Minor	Moderate	Severe	Straight Gradual	Occasional Shifting	Frequent Shifting	Negligible	Minor	Appreciable	Severe	Low	Medium	High	Very High	Minor 1.0 to 1.22	Appreciable 1.2 to 1.52		Severe 1.52+				
DS study limit to US study limit	0.020					0.005					0.005		0.000				0.010							1.100			0.044

OVERBANKS RIGHT West

Columns	nb				n1				n2			n3			n4				n5			n					
Classification	Base "n"				Surface Irregularity				Variations in Size and Shape of Cross-section			Obstructions			Vegetation				Meandering			Total "n" (nb+n1+n2+n3+n4)*n5					
																							0.020	0.025	0.024	0.028	0.000
	Earth	Rock	Fine Gravel	Coarse Gravel	Smooth	Minor	Moderate	Severe	Straight Gradual	Occasional Shifting	Frequent Shifting	Negligible	Minor	Appreciable	Severe	Low	Medium	High	Very High	Minor 1.0 to 1.22	Appreciable 1.2 to 1.52		Severe 1.52+				
DS study limit to US study limit (Undefined open brusy space and farmland)																											0.050

OVERBANKS LEFT East

Columns	nb				n1				n2			n3			n4				n5			n					
Classification	Base "n"				Surface Irregularity				Variations in Size and Shape of Cross-section			Obstructions			Vegetation				Meandering			Total "n" (nb+n1+n2+n3+n4)*n5					
																							0.020	0.025	0.024	0.028	0.000
	Earth	Rock	Fine Gravel	Coarse Gravel	Smooth	Minor	Moderate	Severe	Straight Gradual	Occasional Shifting	Frequent Shifting	Negligible	Minor	Appreciable	Severe	Low	Medium	High	Very High	Minor 1.0 to 1.22	Appreciable 1.2 to 1.52		Severe 1.52+				
DS study limit to US study limit (Undefined open brusy space, vegetation and farmland)																											0.050

 : Not calculated from Cowan's method

San Francisquito Canyon

Columns		nb				n1				n2			n3			n4				n5			n		
Classification	Description of Reach, Station, or Cross-section	Base "n"				Surface Irregularity				Variations in Size and Shape of Cross-section			Obstructions			Vegetation				Meandering			Total "n" (nb+n1+n2+n3+n4)*n5		
		0.020	0.025	0.024	0.028	0.000	0.005	0.010	0.020	0.000	0.005	0.010	0.000	0.010	0.020	0.040	0.005	0.010	0.025	0.050	1.000	1.150		1.300	
		Earth	Rock	Fine Gravel	Coarse Gravel	Smooth	Minor	Moderate	Severe	Straight Gradual	Occasional Shifting	Frequent Shifting	Negligible	Minor	Appreciable	Severe	Low	Medium	High	Very High	Minor 1.0 to 1.22	Appreciable 1.2 to 1.52		Severe 1.52+	
	DS study limit to 4,300 ft US from DS study limit			0.024				0.010			0.005						0.010					1.100			0.05
	4,300 ft US from DS study limit to US study limit			0.024				0.010			0.005							0.035				1.100			0.08

OVERBANKS RIGHT West

Columns		nb				n1				n2			n3			n4				n5			n		
Classification	Description of Reach, Station, or Cross-section	Base "n"				Surface Irregularity				Variations in Size and Shape of Cross-section			Obstructions			Vegetation				Meandering			Total "n" (nb+n1+n2+n3+n4)*n5		
		0.020	0.025	0.024	0.028	0.000	0.005	0.010	0.020	0.000	0.005	0.010	0.000	0.010	0.020	0.040	0.005	0.010	0.025	0.050	1.000	1.150		1.300	
		Earth	Rock	Fine Gravel	Coarse Gravel	Smooth	Minor	Moderate	Severe	Straight Gradual	Occasional Shifting	Frequent Shifting	Negligible	Minor	Appreciable	Severe	Low	Medium	High	Very High	Minor 1.0 to 1.22	Appreciable 1.2 to 1.52		Severe 1.52+	
	DS study limit to 4,300 ft US from DS study limit (agriculture, low density residential, open brushy space)																								0.060
	4,300 ft US from DS study limit to US study limit (open brushy space)																								0.050

OVERBANKS LEFT East

Columns		nb				n1				n2			n3			n4				n5			n		
Classification	Description of Reach, Station, or Cross-section	Base "n"				Surface Irregularity				Variations in Size and Shape of Cross-section			Obstructions			Vegetation				Meandering			Total "n" (nb+n1+n2+n3+n4)*n5		
		0.020	0.025	0.024	0.028	0.000	0.005	0.010	0.020	0.000	0.005	0.010	0.000	0.010	0.020	0.040	0.005	0.010	0.025	0.050	1.000	1.150		1.300	
		Earth	Rock	Fine Gravel	Coarse Gravel	Smooth	Minor	Moderate	Severe	Straight Gradual	Occasional Shifting	Frequent Shifting	Negligible	Minor	Appreciable	Severe	Low	Medium	High	Very High	Minor 1.0 to 1.22	Appreciable 1.2 to 1.52		Severe 1.52+	
	DS study limit to 4,300 ft US from DS study limit (agriculture, low density residential, open brushy space)																								0.060
	4,300 ft US from DS study limit to US study limit (open brushy space)																								0.050

 : Not calculated from Cowan's method

Placerita Creek

Columns		nb				n1				n2			n3				n4				n5			n				
Classification	Description of Reach, Station, or Cross-section	Base "n"				Surface Irregularity				Variations in Size and Shape of Cross-section			Obstructions				Vegetation				Meandering			Total "n" (nb+n1+n2+n3+n4)*n5				
		0.020	0.025	0.024	0.028	0.000	0.005	0.010	0.020	0.000	0.005	0.010	0.000	0.010	0.020	0.040	0.005	0.010	0.025	0.050	1.000	1.150	1.300					
		Earth	Rock	Fine Gravel	Coarse Gravel	Smooth	Minor	Moderate	Severe	Straight Gradual	Occasional Shifting	Frequent Shifting	Negligible	Minor	Appreciable	Severe	Low	Medium	High	Very High	Minor 1.0 to 1.22	Appreciable 1.2 to 1.52	Severe 1.52+					
	DS study limit to 1,500 ft US of DS study limit	0.020					0.005					0.005					0.005									1.150		0.040
	1,500 ft US of DS study limit to Choke Cherry	0.020					0.005					0.005					0.005									1.150		0.040
	Choke Cherry to HWY 14	0.020					0.005					0.005					0.005									1.150		0.040
	HWY 14 to US study limit	0.020					0.005					0.005					0.005									1.150		0.040

OVERBANKS RIGHT West

Columns		nb				n1				n2			n3				n4				n5			n				
Classification	Description of Reach, Station, or Cross-section	Base "n"				Surface Irregularity				Variations in Size and Shape of Cross-section			Obstructions				Vegetation				Meandering			Total "n" (nb+n1+n2+n3+n4)*n5				
		0.020	0.025	0.024	0.028	0.000	0.005	0.010	0.020	0.000	0.005	0.010	0.000	0.010	0.020	0.040	0.005	0.010	0.025	0.050	1.000	1.150	1.300					
		Earth	Rock	Fine Gravel	Coarse Gravel	Smooth	Minor	Moderate	Severe	Straight Gradual	Occasional Shifting	Frequent Shifting	Negligible	Minor	Appreciable	Severe	Low	Medium	High	Very High	Minor 1.0 to 1.22	Appreciable 1.2 to 1.52	Severe 1.52+					
	DS study limit to 1,500 ft US of DS study limit (Undefined brushy open space)																											0.050
	1,500 ft US of DS study limit to Choke Cherry (Residential area)																											0.130
	Choke Cherry to HWY 14 (Residential area and brushy open space)																											0.080
	HWY 14 to US study limit (Undefined brushy open space)																											0.050

OVERBANKS LEFT East

Columns		nb				n1				n2			n3				n4				n5			n				
Classification	Description of Reach, Station, or Cross-section	Base "n"				Surface Irregularity				Variations in Size and Shape of Cross-section			Obstructions				Vegetation				Meandering			Total "n" (nb+n1+n2+n3+n4)*n5				
		0.020	0.025	0.024	0.028	0.000	0.005	0.010	0.020	0.000	0.005	0.010	0.000	0.010	0.020	0.040	0.005	0.010	0.025	0.050	1.000	1.150	1.300					
		Earth	Rock	Fine Gravel	Coarse Gravel	Smooth	Minor	Moderate	Severe	Straight Gradual	Occasional Shifting	Frequent Shifting	Negligible	Minor	Appreciable	Severe	Low	Medium	High	Very High	Minor 1.0 to 1.22	Appreciable 1.2 to 1.52	Severe 1.52+					
	DS study limit to 1,500 ft US of DS study limit (Undefined brushy open space)																											0.050
	1,500 ft US of DS study limit to Choke Cherry (Residential area)																											0.130
	Choke Cherry to HWY 14 (Residential area and brushy open space)																											0.080
	HWY 14 to US study limit (Undefined brushy open space)																											0.050

 : Not calculated from Cowan's method

Pico Canyon

Columns		nb				n1				n2			n3			n4				n5			n				
Classification	Description of Reach, Station, or Cross-section	Base "n"				Surface Irregularity				Variations in Size and Shape of Cross-section			Obstructions			Vegetation				Meandering			Total "n" (nb+n1+n2+n3+n4)*n5				
		0.020	0.025	0.024	0.028	0.000	0.005	0.010	0.020	0.000	0.005	0.010	0.000	0.010	0.020	0.040	0.005	0.010	0.025	0.050	1.000	1.150		1.300			
		Earth	Rock	Fine Gravel	Coarse Gravel	Smooth	Minor	Moderate	Severe	Straight Gradual	Occasional Shifting	Frequent Shifting	Negligible	Minor	Appreciable	Severe	Low	Medium	High	Very High	Minor 1.0 to 1.22	Appreciable 1.2 to 1.52		Severe 1.52+			
	DS study limit to Tournament Rd																										
	Tournament Rd to I-5	0.020					0.005					0.005		0.000				0.005							1.150		
	I-5 to Stevenson Ranch																										
	Stevenson Ranch to US Study limit	0.020					0.005					0.005		0.000				0.005								1.150	

OVERBANKS RIGHT West

Columns		nb				n1				n2			n3			n4				n5			n			
Classification	Description of Reach, Station, or Cross-section	Base "n"				Surface Irregularity				Variations in Size and Shape of Cross-section			Obstructions			Vegetation				Meandering			Total "n" (nb+n1+n2+n3+n4)*n5			
		0.020	0.025	0.024	0.028	0.000	0.005	0.010	0.020	0.000	0.005	0.010	0.000	0.010	0.020	0.040	0.005	0.010	0.025	0.050	1.000	1.150		1.300		
		Earth	Rock	Fine Gravel	Coarse Gravel	Smooth	Minor	Moderate	Severe	Straight Gradual	Occasional Shifting	Frequent Shifting	Negligible	Minor	Appreciable	Severe	Low	Medium	High	Very High	Minor 1.0 to 1.22	Appreciable 1.2 to 1.52		Severe 1.52+		
	DS study limit to Tournament Rd (Residential area)																									
	Tournament Rd to I-5 (Plain land, Golf Course)																									
	I-5 to Stevenson Ranch (Residential area)																									
	Stevenson Ranch to US Study limit (brushy open space)																									

OVERBANKS LEFT East

Columns		nb				n1				n2			n3			n4				n5			n			
Classification	Description of Reach, Station, or Cross-section	Base "n"				Surface Irregularity				Variations in Size and Shape of Cross-section			Obstructions			Vegetation				Meandering			Total "n" (nb+n1+n2+n3+n4)*n5			
		0.020	0.025	0.024	0.028	0.000	0.005	0.010	0.020	0.000	0.005	0.010	0.000	0.010	0.020	0.040	0.005	0.010	0.025	0.050	1.000	1.150		1.300		
		Earth	Rock	Fine Gravel	Coarse Gravel	Smooth	Minor	Moderate	Severe	Straight Gradual	Occasional Shifting	Frequent Shifting	Negligible	Minor	Appreciable	Severe	Low	Medium	High	Very High	Minor 1.0 to 1.22	Appreciable 1.2 to 1.52		Severe 1.52+		
	DS study limit to Tournament Rd (Residential area)																									
	Tournament Rd to I-5 (Plain land, Golf Course)																									
	I-5 to Stevenson Ranch (Residential area)																									
	Stevenson Ranch to US Study limit (brushy open space)																									

 : Not calculated from Cowan's method

Lyon Canyon

Columns		nb				n1				n2			n3				n4				n5			n			
Classification	Description of Reach, Station, or Cross-section	Base "n"				Surface Irregularity				Variations in Size and Shape of Cross-section			Obstructions				Vegetation				Meandering			Total "n" (nb+n1+n2+n3+n4)*n5			
		0.020	0.025	0.024	0.028	0.000	0.005	0.010	0.020	0.000	0.005	0.010	0.000	0.010	0.020	0.040	0.005	0.010	0.025	0.050	1.000	1.150	1.300				
		Earth	Rock	Fine Gravel	Coarse Gravel	Smooth	Minor	Moderate	Severe	Straight Gradual	Occasional Shifting	Frequent Shifting	Negligible	Minor	Appreciable	Severe	Low	Medium	High	Very High	Minor 1.0 to 1.22	Appreciable 1.2 to 1.52	Severe 1.52+				
	DS study limit to Old Rd/l-5																										0.025
	Old Rd/l-5 to 400 ft US of Old Rd	0.020					0.005					0.005			0.000				0.005							1.150	0.040
	400 ft US of Old Rd to US study limit	0.020					0.005					0.005			0.000				0.005							1.150	0.040

OVERBANKS RIGHT West

Columns		nb				n1				n2			n3				n4				n5			n			
Classification	Description of Reach, Station, or Cross-section	Base "n"				Surface Irregularity				Variations in Size and Shape of Cross-section			Obstructions				Vegetation				Meandering			Total "n" (nb+n1+n2+n3+n4)*n5			
		0.020	0.025	0.024	0.028	0.000	0.005	0.010	0.020	0.000	0.005	0.010	0.000	0.010	0.020	0.040	0.005	0.010	0.025	0.050	1.000	1.150	1.300				
		Earth	Rock	Fine Gravel	Coarse Gravel	Smooth	Minor	Moderate	Severe	Straight Gradual	Occasional Shifting	Frequent Shifting	Negligible	Minor	Appreciable	Severe	Low	Medium	High	Very High	Minor 1.0 to 1.22	Appreciable 1.2 to 1.52	Severe 1.52+				
	DS study limit to Old Rd/l-5 (Residential Area)																										0.130
	Old Rd/l-5 to 400 ft US of Old Rd (Undefined open brushy space)																										0.050
	400 ft US of Old Rd to US study limit (Undfined open brushy space)																										0.050

OVERBANKS LEFT East

Columns		nb				n1				n2			n3				n4				n5			n			
Classification	Description of Reach, Station, or Cross-section	Base "n"				Surface Irregularity				Variations in Size and Shape of Cross-section			Obstructions				Vegetation				Meandering			Total "n" (nb+n1+n2+n3+n4)*n5			
		0.020	0.025	0.024	0.028	0.000	0.005	0.010	0.020	0.000	0.005	0.010	0.000	0.010	0.020	0.040	0.005	0.010	0.025	0.050	1.000	1.150	1.300				
		Earth	Rock	Fine Gravel	Coarse Gravel	Smooth	Minor	Moderate	Severe	Straight Gradual	Occasional Shifting	Frequent Shifting	Negligible	Minor	Appreciable	Severe	Low	Medium	High	Very High	Minor 1.0 to 1.22	Appreciable 1.2 to 1.52	Severe 1.52+				
	DS study limit to Old Rd/l-5 (Residential Area)																										0.130
	Old Rd/l-5 to 400 ft US of Old Rd (Residential area)																										0.130
	400 ft US of Old Rd to US study limit (Undfined open brushy space)																										0.050

 : Not calculated from Cowan's method

Towsley Canyon

Columns		nb				n1				n2			n3			n4				n5			n			
Classification	Description of Reach, Station, or Cross-section	Base "n"				Surface Irregularity				Variations in Size and Shape of Cross-section			Obstructions			Vegetation				Meandering			Total "n" (nb+n1+n2+n3+n4)*n5			
		0.020	0.025	0.024	0.028	0.000	0.005	0.010	0.020	0.000	0.005	0.010	0.000	0.010	0.020	0.040	0.005	0.010	0.025	0.025	0.050	1.000		1.150	1.300	
		Earth	Rock	Fine Gravel	Coarse Gravel	Smooth	Minor	Moderate	Severe	Straight Gradual	Occasional Shifting	Frequent Shifting	Negligible	Minor	Appreciable	Severe	Low	Medium	High	Very High	Minor 1.0 to 1.22	Appreciable 1.2 to 1.52		Severe 1.52+		
	Confluence with South Fork SCR to The Old Rd																								0.015	
	The Old Rd to US study limit	0.020					0.005				0.005		0.000				0.005						1.000			0.035

OVERBANKS RIGHT West

Columns		nb				n1				n2			n3			n4				n5			n		
Classification	Description of Reach, Station, or Cross-section	Base "n"				Surface Irregularity				Variations in Size and Shape of Cross-section			Obstructions			Vegetation				Meandering			Total "n" (nb+n1+n2+n3+n4)*n5		
		0.020	0.025	0.024	0.028	0.000	0.005	0.010	0.020	0.000	0.005	0.010	0.000	0.010	0.020	0.040	0.005	0.010	0.025	0.025	0.050	1.000		1.150	1.300
		Earth	Rock	Fine Gravel	Coarse Gravel	Smooth	Minor	Moderate	Severe	Straight Gradual	Occasional Shifting	Frequent Shifting	Negligible	Minor	Appreciable	Severe	Low	Medium	High	Very High	Minor 1.0 to 1.22	Appreciable 1.2 to 1.52		Severe 1.52+	
	Confluence with South Fork SCR to The Old Rd (Highways)																								0.045
	The Old Rd to US study limit (Undefined brushy open space)																								0.050

OVERBANKS LEFT East

Columns		nb				n1				n2			n3			n4				n5			n		
Classification	Description of Reach, Station, or Cross-section	Base "n"				Surface Irregularity				Variations in Size and Shape of Cross-section			Obstructions			Vegetation				Meandering			Total "n" (nb+n1+n2+n3+n4)*n5		
		0.020	0.025	0.024	0.028	0.000	0.005	0.010	0.020	0.000	0.005	0.010	0.000	0.010	0.020	0.040	0.005	0.010	0.025	0.025	0.050	1.000		1.150	1.300
		Earth	Rock	Fine Gravel	Coarse Gravel	Smooth	Minor	Moderate	Severe	Straight Gradual	Occasional Shifting	Frequent Shifting	Negligible	Minor	Appreciable	Severe	Low	Medium	High	Very High	Minor 1.0 to 1.22	Appreciable 1.2 to 1.52		Severe 1.52+	
	Confluence with South Fork SCR to The Old Rd (Highways)																								0.045
	The Old Rd to US study limit (Undefined brushy open space)																								0.050

 : Not calculated from Cowan's method

South Fork Santa Clara River

Columns		nb				n1				n2			n3				n4				n5			n			
Classification	Description of Reach, Station, or Cross-section	Base "n"				Surface Irregularity				Variations in Size and Shape of Cross-section			Obstructions				Vegetation				Meandering			Total "n" (nb+n1+n2+n3+n4)*n5			
		0.020	0.025	0.024	0.028	0.000	0.005	0.010	0.020	0.000	0.005	0.010	0.000	0.010	0.020	0.040	0.005	0.010	0.025	0.050	1.000	1.150	1.300				
		Earth	Rock	Fine Gravel	Coarse Gravel	Smooth	Minor	Moderate	Severe	Straight Gradual	Occasional Shifting	Frequent Shifting	Negligible	Minor	Appreciable	Severe	Low	Medium	High	Very High	Minor 1.0 to 1.22	Appreciable 1.2 to 1.52	Severe 1.52+				
	DS study limit to Lyons Ave																										0.025
	Lyons Ave to Wiley Road																										0.015
	Wiley Road to US study limit	0.020					0.005				0.005		0.000							0.005						1.150	0.040

OVERBANKS RIGHT West

Columns		nb				n1				n2			n3				n4				n5			n			
Classification	Description of Reach, Station, or Cross-section	Base "n"				Surface Irregularity				Variations in Size and Shape of Cross-section			Obstructions				Vegetation				Meandering			Total "n" (nb+n1+n2+n3+n4)*n5			
		0.020	0.025	0.024	0.028	0.000	0.005	0.010	0.020	0.000	0.005	0.010	0.000	0.010	0.020	0.040	0.005	0.010	0.025	0.050	1.000	1.150	1.300				
		Earth	Rock	Fine Gravel	Coarse Gravel	Smooth	Minor	Moderate	Severe	Straight Gradual	Occasional Shifting	Frequent Shifting	Negligible	Minor	Appreciable	Severe	Low	Medium	High	Very High	Minor 1.0 to 1.22	Appreciable 1.2 to 1.52	Severe 1.52+				
	DS study limit to Lyons Ave (Residential)																										0.130
	Lyons Ave to Wiley Road (Residential, Undefined brushy open space)																										0.130
	Wiley Road to US study limit (Undefined brushy open space)																										0.050

OVERBANKS LEFT East

Columns		nb				n1				n2			n3				n4				n5			n			
Classification	Description of Reach, Station, or Cross-section	Base "n"				Surface Irregularity				Variations in Size and Shape of Cross-section			Obstructions				Vegetation				Meandering			Total "n" (nb+n1+n2+n3+n4)*n5			
		0.020	0.025	0.024	0.028	0.000	0.005	0.010	0.020	0.000	0.005	0.010	0.000	0.010	0.020	0.040	0.005	0.010	0.025	0.050	1.000	1.150	1.300				
		Earth	Rock	Fine Gravel	Coarse Gravel	Smooth	Minor	Moderate	Severe	Straight Gradual	Occasional Shifting	Frequent Shifting	Negligible	Minor	Appreciable	Severe	Low	Medium	High	Very High	Minor 1.0 to 1.22	Appreciable 1.2 to 1.52	Severe 1.52+				
	DS study limit to Lyons Ave (Residential)																										0.130
	Lyons Ave to Wiley Road (Undefined brushy open space and highways)																										0.050
	Wiley Road to US study limit (Undefined brushy open space)																										0.050

 : Not calculated from Cowan's method

Dry Canyon

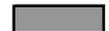
Columns		nb				n1				n2			n3				n4				n5			n		
Classification	Description of Reach, Station, or Cross-section	Base "n"				Surface Irregularity				Variations in Size and Shape of Cross-section			Obstructions				Vegetation				Meandering			Total "n" (nb+n1+n2+n3+n4)*n5		
		0.020	0.025	0.024	0.028	0.000	0.005	0.010	0.020	0.000	0.005	0.010	0.000	0.010	0.020	0.040	0.005	0.010	0.025	0.050	1.000	1.150	1.300			
		Earth	Rock	Fine Gravel	Coarse Gravel	Smooth	Minor	Moderate	Severe	Straight Gradual	Occasional Shifting	Frequent Shifting	Negligible	Minor	Appreciable	Severe	Low	Medium	High	Very High	Minor 1.0 to 1.22	Appreciable 1.2 to 1.52	Severe 1.52+			
	Confluence with Bouquet Canyon to End of improved channel																								0.015	
	End of improved channel to US study limit	0.020							0.005				0.005		0.000										1.150	0.045

OVERBANKS RIGHT West

Columns		nb				n1				n2			n3				n4				n5			n		
Classification	Description of Reach, Station, or Cross-section	Base "n"				Surface Irregularity				Variations in Size and Shape of Cross-section			Obstructions				Vegetation				Meandering			Total "n" (nb+n1+n2+n3+n4)*n5		
		0.020	0.025	0.024	0.028	0.000	0.005	0.010	0.020	0.000	0.005	0.010	0.000	0.010	0.020	0.040	0.005	0.010	0.025	0.050	1.000	1.150	1.300			
		Earth	Rock	Fine Gravel	Coarse Gravel	Smooth	Minor	Moderate	Severe	Straight Gradual	Occasional Shifting	Frequent Shifting	Negligible	Minor	Appreciable	Severe	Low	Medium	High	Very High	Minor 1.0 to 1.22	Appreciable 1.2 to 1.52	Severe 1.52+			
	Confluence with Bouquet Canyon to End of improved channel (High density residential)																								0.130	
	End of improved channel to US study limit (brushy open space)																									0.050

OVERBANKS LEFT East

Columns		nb				n1				n2			n3				n4				n5			n		
Classification	Description of Reach, Station, or Cross-section	Base "n"				Surface Irregularity				Variations in Size and Shape of Cross-section			Obstructions				Vegetation				Meandering			Total "n" (nb+n1+n2+n3+n4)*n5		
		0.020	0.025	0.024	0.028	0.000	0.005	0.010	0.020	0.000	0.005	0.010	0.000	0.010	0.020	0.040	0.005	0.010	0.025	0.050	1.000	1.150	1.300			
		Earth	Rock	Fine Gravel	Coarse Gravel	Smooth	Minor	Moderate	Severe	Straight Gradual	Occasional Shifting	Frequent Shifting	Negligible	Minor	Appreciable	Severe	Low	Medium	High	Very High	Minor 1.0 to 1.22	Appreciable 1.2 to 1.52	Severe 1.52+			
	Confluence with Bouquet Canyon to End of improved channel (High density residential)																								0.130	
	End of improved channel to US study limit (brushy open space)																									0.050

 : Not calculated from Cowan's method

Haskell Canyon

Columns		nb				n1				n2			n3				n4				n5			n		
Classification	Description of Reach, Station, or Cross-section	Base "n"				Surface Irregularity				Variations in Size and Shape of Cross-section			Obstructions				Vegetation				Meandering			Total "n" (nb+n1+n2+n3+n4)*n5		
		0.020	0.025	0.024	0.028	0.000	0.005	0.010	0.020	0.000	0.005	0.010	0.000	0.010	0.020	0.040	0.005	0.010	0.025	0.050	1.000	1.150	1.300			
		Earth	Rock	Fine Gravel	Coarse Gravel	Smooth	Minor	Moderate	Severe	Straight Gradual	Occasional Shifting	Frequent Shifting	Negligible	Minor	Appreciable	Severe	Low	Medium	High	Very High	Minor 1.0 to 1.22	Appreciable 1.2 to 1.52	Severe 1.52+			
	Confluence with Bouquet Canyon to Ridge Grove																								0.015	
	Carson Mesa Road to 1,720 ft US from Copper Hill Drive																									0.015
	1,720 ft US from Copper Hill Drive to 1,720 ft US from Copper Hill Drive	0.020						0.005			0.000				0.025						0.050	1.000				0.100
	720 ft US from Copper Hill Dr to US study limit	0.020						0.005				0.005		0.000				0.010						1.150		0.046

OVERBANKS RIGHT West

Columns		nb				n1				n2			n3				n4				n5			n			
Classification	Description of Reach, Station, or Cross-section	Base "n"				Surface Irregularity				Variations in Size and Shape of Cross-section			Obstructions				Vegetation				Meandering			Total "n" (nb+n1+n2+n3+n4)*n5			
		0.020	0.025	0.024	0.028	0.000	0.005	0.010	0.020	0.000	0.005	0.010	0.000	0.010	0.020	0.040	0.005	0.010	0.025	0.050	1.000	1.150	1.300				
		Earth	Rock	Fine Gravel	Coarse Gravel	Smooth	Minor	Moderate	Severe	Straight Gradual	Occasional Shifting	Frequent Shifting	Negligible	Minor	Appreciable	Severe	Low	Medium	High	Very High	Minor 1.0 to 1.22	Appreciable 1.2 to 1.52	Severe 1.52+				
	Confluence with Bouquet Canyon to Ridge Grove (residential)																									0.130	
	Carson Mesa Road to 1,720 ft US from Copper Hill Drive (residential)																										0.130
	1,720 ft US from Copper Hill Drive to 1,720 ft US from Copper Hill Drive (residential)																										0.130
	720 ft US from Copper Hill Dr to US study limit (low density vegetation and open brushy space)																										0.050

OVERBANKS LEFT East

Columns		nb				n1				n2			n3				n4				n5			n				
Classification	Description of Reach, Station, or Cross-section	Base "n"				Surface Irregularity				Variations in Size and Shape of Cross-section			Obstructions				Vegetation				Meandering			Total "n" (nb+n1+n2+n3+n4)*n5				
		0.020	0.025	0.024	0.028	0.000	0.005	0.010	0.020	0.000	0.005	0.010	0.000	0.010	0.020	0.040	0.005	0.010	0.025	0.050	1.000	1.150	1.300					
		Earth	Rock	Fine Gravel	Coarse Gravel	Smooth	Minor	Moderate	Severe	Straight Gradual	Occasional Shifting	Frequent Shifting	Negligible	Minor	Appreciable	Severe	Low	Medium	High	Very High	Minor 1.0 to 1.22	Appreciable 1.2 to 1.52	Severe 1.52+					
	Confluence with Bouquet Canyon to Ridge Grove (residential)																										0.050	
	Carson Mesa Road to 1,720 ft US from Copper Hill Drive (undefined brushy open space)																											0.050
	1,720 ft US from Copper Hill Drive to 1,720 ft US from Copper Hill Drive(undefined brushy open space)																											0.050
	720 ft US from Copper Hill Dr to US study limit (low density vegetation and open brushy space)																											0.050

 : Not calculated from Cowan's method

Plum Canyon

Columns	nb				n1				n2			n3			n4				n5			n					
Classification	Base "n"				Surface Irregularity				Variations in Size and Shape of Cross-section			Obstructions			Vegetation				Meandering			Total "n" (nb+n1+n2+n3+n4)*n5					
																							0.020	0.025	0.024	0.028	0.000
	Earth	Rock	Fine Gravel	Coarse Gravel	Smooth	Minor	Moderate	Severe	Straight Gradual	Occasional Shifting	Frequent Shifting	Negligible	Minor	Appreciable	Severe	Low	Medium	High	Very High	Minor 1.0 to 1.22	Appreciable 1.2 to 1.52		Severe 1.52+				
Confluence with Bouquet Canyon to US study limit																											0.015

OVERBANKS RIGHT West

Columns	nb				n1				n2			n3			n4				n5			n					
Classification	Base "n"				Surface Irregularity				Variations in Size and Shape of Cross-section			Obstructions			Vegetation				Meandering			Total "n" (nb+n1+n2+n3+n4)*n5					
																							0.020	0.025	0.024	0.028	0.000
	Earth	Rock	Fine Gravel	Coarse Gravel	Smooth	Minor	Moderate	Severe	Straight Gradual	Occasional Shifting	Frequent Shifting	Negligible	Minor	Appreciable	Severe	Low	Medium	High	Very High	Minor 1.0 to 1.22	Appreciable 1.2 to 1.52		Severe 1.52+				
Confluence with Bouquet Canyon to US study limit (Residential)																											0.130

OVERBANKS LEFT East

Columns	nb				n1				n2			n3			n4				n5			n					
Classification	Base "n"				Surface Irregularity				Variations in Size and Shape of Cross-section			Obstructions			Vegetation				Meandering			Total "n" (nb+n1+n2+n3+n4)*n5					
																							0.020	0.025	0.024	0.028	0.000
	Earth	Rock	Fine Gravel	Coarse Gravel	Smooth	Minor	Moderate	Severe	Straight Gradual	Occasional Shifting	Frequent Shifting	Negligible	Minor	Appreciable	Severe	Low	Medium	High	Very High	Minor 1.0 to 1.22	Appreciable 1.2 to 1.52		Severe 1.52+				
Confluence with Bouquet Canyon to US study limit (Residential)																											0.130

 : Not calculated from Cowan's method

Vasquez Canyon

Columns		nb				n1				n2			n3				n4				n5			n
Classification	Description of Reach, Station, or Cross-section	Base "n"				Surface Irregularity				Variations in Size and Shape of Cross-section			Obstructions				Vegetation				Meandering			Total "n" (nb+n1+n2+n3+n4)*n5
		0.020	0.025	0.024	0.028	0.000	0.005	0.010	0.020	0.000	0.005	0.010	0.000	0.010	0.020	0.040	0.005	0.010	0.025	0.050	1.000	1.150	1.300	
		Earth	Rock	Fine Gravel	Coarse Gravel	Smooth	Minor	Moderate	Severe	Straight Gradual	Occasional Shifting	Frequent Shifting	Negligible	Minor	Appreciable	Severe	Low	Medium	High	Very High	Minor 1.0 to 1.22	Appreciable 1.2 to 1.52	Severe 1.52+	
	Confluence with Bouquet Canyon to 2,100 ft US of confluence	0.020					0.005			0.000			0.000				0.010				1.000			0.035
	2,100 ft US of confluence of US study limit to US study limit	0.020					0.005				0.005		0.000				0.010				1.100			0.044

OVERBANKS RIGHT West

Columns		nb				n1				n2			n3				n4				n5			n
Classification	Description of Reach, Station, or Cross-section	Base "n"				Surface Irregularity				Variations in Size and Shape of Cross-section			Obstructions				Vegetation				Meandering			Total "n" (nb+n1+n2+n3+n4)*n5
		0.020	0.025	0.024	0.028	0.000	0.005	0.010	0.020	0.000	0.005	0.010	0.000	0.010	0.020	0.040	0.005	0.010	0.025	0.050	1.000	1.150	1.300	
		Earth	Rock	Fine Gravel	Coarse Gravel	Smooth	Minor	Moderate	Severe	Straight Gradual	Occasional Shifting	Frequent Shifting	Negligible	Minor	Appreciable	Severe	Low	Medium	High	Very High	Minor 1.0 to 1.22	Appreciable 1.2 to 1.52	Severe 1.52+	
	Confluence with Bouquet Canyon to 2,100 ft US of confluence (undefined brushy open space)																							0.050
	2,100 ft US of confluence of US study limit to US study limit (undefined brushy open space)																							0.050

OVERBANKS LEFT East

Columns		nb				n1				n2			n3				n4				n5			n
Classification	Description of Reach, Station, or Cross-section	Base "n"				Surface Irregularity				Variations in Size and Shape of Cross-section			Obstructions				Vegetation				Meandering			Total "n" (nb+n1+n2+n3+n4)*n5
		0.020	0.025	0.024	0.028	0.000	0.005	0.010	0.020	0.000	0.005	0.010	0.000	0.010	0.020	0.040	0.005	0.010	0.025	0.050	1.000	1.150	1.300	
		Earth	Rock	Fine Gravel	Coarse Gravel	Smooth	Minor	Moderate	Severe	Straight Gradual	Occasional Shifting	Frequent Shifting	Negligible	Minor	Appreciable	Severe	Low	Medium	High	Very High	Minor 1.0 to 1.22	Appreciable 1.2 to 1.52	Severe 1.52+	
	Confluence with Bouquet Canyon to 2,100 ft US of confluence (agriculture)																							0.060
	2,100 ft US of confluence to US study limit (undefined brushy open space)																							0.050

 : Not calculated from Cowan's method

Texas Canyon

Columns		nb				n1				n2			n3				n4				n5			n		
Classification	Description of Reach, Station, or Cross-section	Base "n"				Surface Irregularity				Variations in Size and Shape of Cross-section			Obstructions				Vegetation				Meandering			Total "n" (nb+n1+n2+n3+n4)*n5		
		0.020	0.025	0.024	0.028	0.000	0.005	0.010	0.020	0.000	0.005	0.010	0.000	0.010	0.020	0.040	0.005	0.010	0.025	0.050	1.000	1.150	1.300			
		Earth	Rock	Fine Gravel	Coarse Gravel	Smooth	Minor	Moderate	Severe	Straight Gradual	Occasional Shifting	Frequent Shifting	Negligible	Minor	Appreciable	Severe	Low	Medium	High	Very High	Minor 1.0 to 1.22	Appreciable 1.2 to 1.52	Severe 1.52+			
	Confluence with Bouquet Canyon to 1,100 ft US of confluence	0.020					0.005					0.005			0.000				0.010				1.000			0.040
	1,100 ft US of confluence to 2,400 ft US of confluence	0.020					0.005					0.005			0.000				0.010				1.000			0.040
	2,400 ft US of confluence to US study limit	0.020					0.005					0.005			0.000				0.010					1.150		0.046

OVERBANKS RIGHT West

Columns		nb				n1				n2			n3				n4				n5			n		
Classification	Description of Reach, Station, or Cross-section	Base "n"				Surface Irregularity				Variations in Size and Shape of Cross-section			Obstructions				Vegetation				Meandering			Total "n" (nb+n1+n2+n3+n4)*n5		
		0.020	0.025	0.024	0.028	0.000	0.005	0.010	0.020	0.000	0.005	0.010	0.000	0.010	0.020	0.040	0.005	0.010	0.025	0.050	1.000	1.150	1.300			
		Earth	Rock	Fine Gravel	Coarse Gravel	Smooth	Minor	Moderate	Severe	Straight Gradual	Occasional Shifting	Frequent Shifting	Negligible	Minor	Appreciable	Severe	Low	Medium	High	Very High	Minor 1.0 to 1.22	Appreciable 1.2 to 1.52	Severe 1.52+			
	Confluence with Bouquet Canyon to 1,100 ft US of confluence (agriculture, residential and undefined open brushy space)																									0.060
	1,100 ft US of confluence to 2,400 ft US of confluence (undefined brushy open space)																									0.050
	2,400 ft US of confluence to US study limit (undefined brushy open space)																									0.050

OVERBANKS LEFT East

Columns		nb				n1				n2			n3				n4				n5			n		
Classification	Description of Reach, Station, or Cross-section	Base "n"				Surface Irregularity				Variations in Size and Shape of Cross-section			Obstructions				Vegetation				Meandering			Total "n" (nb+n1+n2+n3+n4)*n5		
		0.020	0.025	0.024	0.028	0.000	0.005	0.010	0.020	0.000	0.005	0.010	0.000	0.010	0.020	0.040	0.005	0.010	0.025	0.050	1.000	1.150	1.300			
		Earth	Rock	Fine Gravel	Coarse Gravel	Smooth	Minor	Moderate	Severe	Straight Gradual	Occasional Shifting	Frequent Shifting	Negligible	Minor	Appreciable	Severe	Low	Medium	High	Very High	Minor 1.0 to 1.22	Appreciable 1.2 to 1.52	Severe 1.52+			
	Confluence with Bouquet Canyon to 1,100 ft US of confluence (agriculture, residential and undefined open brushy space)																									0.060
	1,100 ft US of confluence to 2,400 ft US of confluence (agriculture and undefined open brushy space)																									0.050
	2,400 ft US of confluence to US study limit (undefined brushy open space)																									0.050

 : Not calculated from Cowan's method

Bouquet Canyon

Columns	nb				n1				n2			n3			n4				n5			n		
Classification	Base "n"				Surface Irregularity				Variations in Size and Shape of Cross-section			Obstructions			Vegetation				Meandering			Total "n" (nb+n1+n2+n3+n4)*n5		
																							0.020	0.025
	Earth	Rock	Fine Gravel	Coarse Gravel	Smooth	Minor	Moderate	Severe	Straight Gradual	Occasional Shifting	Frequent Shifting	Negligible	Minor	Appreciable	Severe	Low	Medium	High	Very High	Minor 1.0 to 1.22	Appreciable 1.2 to 1.52		Severe 1.52+	
DS study limit ~ US study limit	0.020					0.005					0.005		0.000				0.010				1.000			0.040

OVERBANKS RIGHT West

Columns	nb				n1				n2			n3			n4				n5			n		
Classification	Base "n"				Surface Irregularity				Variations in Size and Shape of Cross-section			Obstructions			Vegetation				Meandering			Total "n" (nb+n1+n2+n3+n4)*n5		
																							0.020	0.025
	Earth	Rock	Fine Gravel	Coarse Gravel	Smooth	Minor	Moderate	Severe	Straight Gradual	Occasional Shifting	Frequent Shifting	Negligible	Minor	Appreciable	Severe	Low	Medium	High	Very High	Minor 1.0 to 1.22	Appreciable 1.2 to 1.52		Severe 1.52+	
DS study limit ~ US study limit (undefined open brushy space)																								0.05

OVERBANKS LEFT East

Columns	nb				n1				n2			n3			n4				n5			n		
Classification	Base "n"				Surface Irregularity				Variations in Size and Shape of Cross-section			Obstructions			Vegetation				Meandering			Total "n" (nb+n1+n2+n3+n4)*n5		
																							0.020	0.025
	Earth	Rock	Fine Gravel	Coarse Gravel	Smooth	Minor	Moderate	Severe	Straight Gradual	Occasional Shifting	Frequent Shifting	Negligible	Minor	Appreciable	Severe	Low	Medium	High	Very High	Minor 1.0 to 1.22	Appreciable 1.2 to 1.52		Severe 1.52+	
DS study limit ~ US study limit (undefined open brushy space)																								0.05

 : Not calculated from Cowan's method

Mint Canyon

Columns		nb				n1				n2			n3				n4				n5			n	
Classification	Description of Reach, Station, or Cross-section	Base "n"				Surface Irregularity				Variations in Size and Shape of Cross-section			Obstructions				Vegetation				Meandering			Total "n" (nb+n1+n2+n3+n4)*n5	
		0.020	0.025	0.024	0.028	0.000	0.005	0.010	0.020	0.000	0.005	0.010	0.000	0.010	0.020	0.040	0.005	0.010	0.025	0.050	1.000	1.150	1.300		
		Earth	Rock	Fine Gravel	Coarse Gravel	Smooth	Minor	Moderate	Severe	Straight Gradual	Occasional Shifting	Frequent Shifting	Negligible	Minor	Appreciable	Severe	Low	Medium	High	Very High	Minor 1.0 to 1.22	Appreciable 1.2 to 1.52	Severe 1.52+		
	Confluence with Santa Clara River to Solamint Rd																							0.015	
	Solamint Rd to Fitch Ave	0.020					0.005					0.005		0.000				0.010					1.100		0.044
	Fitch Ave to Private Driveway 3	0.020					0.005					0.005		0.000				0.010					1.100		0.044
	Private Driveway 3 to US study limit	0.020					0.005					0.005		0.000				0.005					1.100		0.039

OVERBANKS RIGHT West

Columns		nb				n1				n2			n3				n4				n5			n	
Classification	Description of Reach, Station, or Cross-section	Base "n"				Surface Irregularity				Variations in Size and Shape of Cross-section			Obstructions				Vegetation				Meandering			Total "n" (nb+n1+n2+n3+n4)*n5	
		0.020	0.025	0.024	0.028	0.000	0.005	0.010	0.020	0.000	0.005	0.010	0.000	0.010	0.020	0.040	0.005	0.010	0.025	0.050	1.000	1.150	1.300		
		Earth	Rock	Fine Gravel	Coarse Gravel	Smooth	Minor	Moderate	Severe	Straight Gradual	Occasional Shifting	Frequent Shifting	Negligible	Minor	Appreciable	Severe	Low	Medium	High	Very High	Minor 1.0 to 1.22	Appreciable 1.2 to 1.52	Severe 1.52+		
	Confluence with Santa Clara River to Solamint Rd (commercial and residential)																							0.130	
	Solamint Rd to Fitch Ave (residential and undefined open brushy space)																								0.060
	Fitch Ave to Private Driveway 3 (undefined open brushy space)																								0.050
	Private Driveway 3 to US study limit (low density residential and undefined open brushy space)																								0.060

OVERBANKS LEFT East

Columns		nb				n1				n2			n3				n4				n5			n	
Classification	Description of Reach, Station, or Cross-section	Base "n"				Surface Irregularity				Variations in Size and Shape of Cross-section			Obstructions				Vegetation				Meandering			Total "n" (nb+n1+n2+n3+n4)*n5	
		0.020	0.025	0.024	0.028	0.000	0.005	0.010	0.020	0.000	0.005	0.010	0.000	0.010	0.020	0.040	0.005	0.010	0.025	0.050	1.000	1.150	1.300		
		Earth	Rock	Fine Gravel	Coarse Gravel	Smooth	Minor	Moderate	Severe	Straight Gradual	Occasional Shifting	Frequent Shifting	Negligible	Minor	Appreciable	Severe	Low	Medium	High	Very High	Minor 1.0 to 1.22	Appreciable 1.2 to 1.52	Severe 1.52+		
	Confluence with Santa Clara River to Solamint Rd (commercial and residential)																							0.130	
	Solamint Rd to Fitch Ave (residential and undefined open brushy space)																								0.060
	Fitch Ave to Private Driveway 3 (undefined open brushy space)																								0.050
	Private Driveway 3 to US study limit (low density residential and undefined open brushy space)																								0.060

 : Not calculated from Cowan's method

Iron Canyon

Columns		nb				n1				n2			n3				n4				n5			n		
Classification	Description of Reach, Station, or Cross-section	Base "n"				Surface Irregularity				Variations in Size and Shape of Cross-section			Obstructions				Vegetation				Meandering			Total "n" (nb+n1+n2+n3+n4)*n5		
		0.020	0.025	0.024	0.028	0.000	0.005	0.010	0.020	0.000	0.005	0.010	0.000	0.010	0.020	0.040	0.005	0.010	0.025	0.050	1.000	1.150	1.300			
		Earth	Rock	Fine Gravel	Coarse Gravel	Smooth	Minor	Moderate	Severe	Straight Gradual	Occasional Shifting	Frequent Shifting	Negligible	Minor	Appreciable	Severe	Low	Medium	High	Very High	Minor 1.0 to 1.22	Appreciable 1.2 to 1.52	Severe 1.52+			
	Confluence with Sand Canyon to 1,100 ft US of N Iron Canyon Rd	0.020					0.005					0.005		0.000				0.005						1.150		0.040
	1,100 ft US of N Iron Canyon Rd to US study limit	0.020					0.005					0.005		0.000				0.005						1.150		0.040

OVERBANKS RIGHT West

Columns		nb				n1				n2			n3				n4				n5			n		
Classification	Description of Reach, Station, or Cross-section	Base "n"				Surface Irregularity				Variations in Size and Shape of Cross-section			Obstructions				Vegetation				Meandering			Total "n" (nb+n1+n2+n3+n4)*n5		
		0.020	0.025	0.024	0.028	0.000	0.005	0.010	0.020	0.000	0.005	0.010	0.000	0.010	0.020	0.040	0.005	0.010	0.025	0.050	1.000	1.150	1.300			
		Earth	Rock	Fine Gravel	Coarse Gravel	Smooth	Minor	Moderate	Severe	Straight Gradual	Occasional Shifting	Frequent Shifting	Negligible	Minor	Appreciable	Severe	Low	Medium	High	Very High	Minor 1.0 to 1.22	Appreciable 1.2 to 1.52	Severe 1.52+			
	Confluence with Sand Canyon to 1,1000 ft US of N Iron Canyon Rd (Residential)																									0.130
	1,100 ft US of N Iron Canyon Rd to US study limit (Undefined brushy open space)																									0.050

OVERBANKS LEFT East

Columns		nb				n1				n2			n3				n4				n5			n		
Classification	Description of Reach, Station, or Cross-section	Base "n"				Surface Irregularity				Variations in Size and Shape of Cross-section			Obstructions				Vegetation				Meandering			Total "n" (nb+n1+n2+n3+n4)*n5		
		0.020	0.025	0.024	0.028	0.000	0.005	0.010	0.020	0.000	0.005	0.010	0.000	0.010	0.020	0.040	0.005	0.010	0.025	0.050	1.000	1.150	1.300			
		Earth	Rock	Fine Gravel	Coarse Gravel	Smooth	Minor	Moderate	Severe	Straight Gradual	Occasional Shifting	Frequent Shifting	Negligible	Minor	Appreciable	Severe	Low	Medium	High	Very High	Minor 1.0 to 1.22	Appreciable 1.2 to 1.52	Severe 1.52+			
	Confluence with Sand Canyon to 1,1000 ft US of N Iron Canyon Rd (Residential)																									0.130
	1,100 ft US of N Iron Canyon Rd to US study limit (Undefined brushy open space)																									0.050

 : Not calculated from Cowan's method

Sand Canyon

Columns		nb				n1				n2			n3				n4				n5			n		
Classification	Description of Reach, Station, or Cross-section	Base "n"				Surface Irregularity				Variations in Size and Shape of Cross-section			Obstructions				Vegetation				Meandering			Total "n" (nb+n1+n2+n3+n4)*n5		
		0.020	0.025	0.024	0.028	0.000	0.005	0.010	0.020	0.000	0.005	0.010	0.000	0.010	0.020	0.040	0.005	0.010	0.025	0.050	1.000	1.150	1.300			
		Earth	Rock	Fine Gravel	Coarse Gravel	Smooth	Minor	Moderate	Severe	Straight Gradual	Occasional Shifting	Frequent Shifting	Negligible	Minor	Appreciable	Severe	Low	Medium	High	Very High	Minor 1.0 to 1.22	Appreciable 1.2 to 1.52	Severe 1.52+			
	Confluence with SCR to 1,200 ft DS Sand Canyon Rd.	0.020					0.005					0.005			0.000				0.005					1.150		0.040
	1,200 ft DS Sand Canyon Rd to US study limit	0.020					0.005					0.005			0.000				0.005					1.150		0.040

OVERBANKS RIGHT West

Columns		nb				n1				n2			n3				n4				n5			n		
Classification	Description of Reach, Station, or Cross-section	Base "n"				Surface Irregularity				Variations in Size and Shape of Cross-section			Obstructions				Vegetation				Meandering			Total "n" (nb+n1+n2+n3+n4)*n5		
		0.020	0.025	0.024	0.028	0.000	0.005	0.010	0.020	0.000	0.005	0.010	0.000	0.010	0.020	0.040	0.005	0.010	0.025	0.050	1.000	1.150	1.300			
		Earth	Rock	Fine Gravel	Coarse Gravel	Smooth	Minor	Moderate	Severe	Straight Gradual	Occasional Shifting	Frequent Shifting	Negligible	Minor	Appreciable	Severe	Low	Medium	High	Very High	Minor 1.0 to 1.22	Appreciable 1.2 to 1.52	Severe 1.52+			
	Confluence with SCR to 1,200 ft DS Sand Canyon Rd. (Residential)																									0.130
	1,200 ft DS Sand Canyon Rd to US study limit (Undefined brushy open space)																									0.050

OVERBANKS LEFT East

Columns		nb				n1				n2			n3				n4				n5			n		
Classification	Description of Reach, Station, or Cross-section	Base "n"				Surface Irregularity				Variations in Size and Shape of Cross-section			Obstructions				Vegetation				Meandering			Total "n" (nb+n1+n2+n3+n4)*n5		
		0.020	0.025	0.024	0.028	0.000	0.005	0.010	0.020	0.000	0.005	0.010	0.000	0.010	0.020	0.040	0.005	0.010	0.025	0.050	1.000	1.150	1.300			
		Earth	Rock	Fine Gravel	Coarse Gravel	Smooth	Minor	Moderate	Severe	Straight Gradual	Occasional Shifting	Frequent Shifting	Negligible	Minor	Appreciable	Severe	Low	Medium	High	Very High	Minor 1.0 to 1.22	Appreciable 1.2 to 1.52	Severe 1.52+			
	Confluence with SCR to 1,200 ft DS Sand Canyon Rd. (Residential)																									0.130
	1,200 ft DS Sand Canyon Rd to US study limit (Undefined brushy open space)																									0.050

 : Not calculated from Cowan's method

Oak Spring Canyon

Columns		nb				n1				n2			n3				n4				n5			n					
Classification	Description of Reach, Station, or Cross-section	Base "n"				Surface Irregularity				Variations in Size and Shape of Cross-section			Obstructions				Vegetation				Meandering			Total "n" (nb+n1+n2+n3+n4)*n5					
		0.020	0.025	0.024	0.028	0.000	0.005	0.010	0.020	0.000	0.005	0.010	0.000	0.010	0.020	0.040	0.005	0.010	0.025	0.050	1.000	1.150	1.300						
		Earth	Rock	Fine Gravel	Coarse Gravel	Smooth	Minor	Moderate	Severe	Straight Gradual	Occasional Shifting	Frequent Shifting	Negligible	Minor	Appreciable	Severe	Low	Medium	High	Very High	Minor 1.0 to 1.22	Appreciable 1.2 to 1.52	Severe 1.52+						
	DS study limit to 5,000 ft US Whitewater Canyon Rd	0.020					0.005					0.005			0.000				0.005						1.150			0.040	
	5,000 ft US Whitewater Canyon Rd to Oak Spring Canyon Rd (#4)	0.020					0.005					0.005			0.000				0.005							1.150			0.040
	Whitewater Canyon Rd to US study limit	0.020					0.005					0.005			0.000				0.005							1.150			0.040

OVERBANKS RIGHT West

Columns		nb				n1				n2			n3				n4				n5			n						
Classification	Description of Reach, Station, or Cross-section	Base "n"				Surface Irregularity				Variations in Size and Shape of Cross-section			Obstructions				Vegetation				Meandering			Total "n" (nb+n1+n2+n3+n4)*n5						
		0.020	0.025	0.024	0.028	0.000	0.005	0.010	0.020	0.000	0.005	0.010	0.000	0.010	0.020	0.040	0.005	0.010	0.025	0.050	1.000	1.150	1.300							
		Earth	Rock	Fine Gravel	Coarse Gravel	Smooth	Minor	Moderate	Severe	Straight Gradual	Occasional Shifting	Frequent Shifting	Negligible	Minor	Appreciable	Severe	Low	Medium	High	Very High	Minor 1.0 to 1.22	Appreciable 1.2 to 1.52	Severe 1.52+							
	DS study limit to 5,000 ft US Whitewater Canyon Rd (undefined brushy open space and low residential)																												0.060	
	5,000 ft US Whitewater Canyon Rd to Oak Spring Canyon Rd (#4) (undefined brushy open space)																													0.050
	Whitewater Canyon Rd to US study limit (undefined brushy open space)																													0.050

OVERBANKS LEFT East

Columns		nb				n1				n2			n3				n4				n5			n							
Classification	Description of Reach, Station, or Cross-section	Base "n"				Surface Irregularity				Variations in Size and Shape of Cross-section			Obstructions				Vegetation				Meandering			Total "n" (nb+n1+n2+n3+n4)*n5							
		0.020	0.025	0.024	0.028	0.000	0.005	0.010	0.020	0.000	0.005	0.010	0.000	0.010	0.020	0.040	0.005	0.010	0.025	0.050	1.000	1.150	1.300								
		Earth	Rock	Fine Gravel	Coarse Gravel	Smooth	Minor	Moderate	Severe	Straight Gradual	Occasional Shifting	Frequent Shifting	Negligible	Minor	Appreciable	Severe	Low	Medium	High	Very High	Minor 1.0 to 1.22	Appreciable 1.2 to 1.52	Severe 1.52+								
	DS study limit to 5,000 ft US Whitewater Canyon Rd (low residential and undefined brushy open space)																													0.070	
	5,000 ft US Whitewater Canyon Rd to Oak Spring Canyon Rd (#4) (low residential and undefined brushy open space)																														0.070
	Whitewater Canyon Rd to US study limit (undefined brushy open space)																														0.050

 : Not calculated from Cowan's method

Tick Canyon

Columns		nb				n1				n2			n3			n4				n5			n		
Classification	Description of Reach, Station, or Cross-section	Base "n"				Surface Irregularity				Variations in Size and Shape of Cross-section			Obstructions			Vegetation				Meandering			Total "n" (nb+n1+n2+n3+n4)*n5		
		0.020	0.025	0.024	0.028	0.000	0.005	0.010	0.020	0.000	0.005	0.010	0.000	0.010	0.020	0.040	0.005	0.010	0.025	0.050	0.050	1.000		1.150	1.300
		Earth	Rock	Fine Gravel	Coarse Gravel	Smooth	Minor	Moderate	Severe	Straight Gradual	Occasional Shifting	Frequent Shifting	Negligible	Minor	Appreciable	Severe	Low	Medium	High	Very High	Minor 1.0 to 1.22	Appreciable 1.2 to 1.52		Severe 1.52+	
	Confluence with Santa Clara River to Soledad Canyon Rd	0.020					0.005					0.005									1.100			0.06	
	Soledad Canyon Rd to Grandifloras Road																							0.015	
	Grandifloras Road to 4,000 ft DS of US study limit																								
	4,000 ft DS of US study limit to US study limit	0.020					0.005					0.005		0.000				0.010				1.100		0.04	

OVERBANKS RIGHT West

Columns		nb				n1				n2			n3			n4				n5			n		
Classification	Description of Reach, Station, or Cross-section	Base "n"				Surface Irregularity				Variations in Size and Shape of Cross-section			Obstructions			Vegetation				Meandering			Total "n" (nb+n1+n2+n3+n4)*n5		
		0.020	0.025	0.024	0.028	0.000	0.005	0.010	0.020	0.000	0.005	0.010	0.000	0.010	0.020	0.040	0.005	0.010	0.025	0.050	0.050	1.000		1.150	1.300
		Earth	Rock	Fine Gravel	Coarse Gravel	Smooth	Minor	Moderate	Severe	Straight Gradual	Occasional Shifting	Frequent Shifting	Negligible	Minor	Appreciable	Severe	Low	Medium	High	Very High	Minor 1.0 to 1.22	Appreciable 1.2 to 1.52		Severe 1.52+	
	Confluence with Santa Clara River to Soledad Canyon Rd (undefined brushy open space and industrial area)																							0.070	
	Soledad Canyon Rd to Grandifloras Road (residential and undefined open brushy space)																							0.130	
	Grandifloras Road to 4,000 ft DS of US study limit (residential and undefined open brushy space)																							0.130	
	4,000 ft DS of US study limit to US study limit (undefined open brushy space)																							0.050	

OVERBANKS LEFT East

Columns		nb				n1				n2			n3			n4				n5			n		
Classification	Description of Reach, Station, or Cross-section	Base "n"				Surface Irregularity				Variations in Size and Shape of Cross-section			Obstructions			Vegetation				Meandering			Total "n" (nb+n1+n2+n3+n4)*n5		
		0.020	0.025	0.024	0.028	0.000	0.005	0.010	0.020	0.000	0.005	0.010	0.000	0.010	0.020	0.040	0.005	0.010	0.025	0.050	0.050	1.000		1.150	1.300
		Earth	Rock	Fine Gravel	Coarse Gravel	Smooth	Minor	Moderate	Severe	Straight Gradual	Occasional Shifting	Frequent Shifting	Negligible	Minor	Appreciable	Severe	Low	Medium	High	Very High	Minor 1.0 to 1.22	Appreciable 1.2 to 1.52		Severe 1.52+	
	Confluence with Santa Clara River to Soledad Canyon Rd (undefined brushy open space and industrial area)																							0.070	
	Soledad Canyon Rd to Grandifloras Road (residential and undefined open brushy space)																							0.060	
	Grandifloras Road to 4,000 ft DS of US study limit (residential and undefined open brushy space)																							0.100	
	4,000 ft DS of US study limit to US study limit (undefined open brushy space)																							0.050	

 : Not calculated from Cowan's method

Agua Dulce Canyon

Columns	nb				n1				n2			n3			n4				n5			n					
Classification	Base "n"				Surface Irregularity				Variations in Size and Shape of Cross-section			Obstructions			Vegetation				Meandering			Total "n" (nb+n1+n2+n3+n4)*n5					
																							0.020	0.025	0.024	0.028	0.000
	Earth	Rock	Fine Gravel	Coarse Gravel	Smooth	Minor	Moderate	Severe	Straight Gradual	Occasional Shifting	Frequent Shifting	Negligible	Minor	Appreciable	Severe	Low	Medium	High	Very High	Minor 1.0 to 1.22	Appreciable 1.2 to 1.52		Severe 1.52+				
Confluence with Santa Clara River ~ US study limit	0.020					0.005					0.005		0.000					0.005						1.100			0.039

OVERBANKS RIGHT West

Columns	nb				n1				n2			n3			n4				n5			n					
Classification	Base "n"				Surface Irregularity				Variations in Size and Shape of Cross-section			Obstructions			Vegetation				Meandering			Total "n" (nb+n1+n2+n3+n4)*n5					
																							0.020	0.025	0.024	0.028	0.000
	Earth	Rock	Fine Gravel	Coarse Gravel	Smooth	Minor	Moderate	Severe	Straight Gradual	Occasional Shifting	Frequent Shifting	Negligible	Minor	Appreciable	Severe	Low	Medium	High	Very High	Minor 1.0 to 1.22	Appreciable 1.2 to 1.52		Severe 1.52+				
Confluence with Santa Clara River ~ US study limit (undefined brushy open space)																											0.050

OVERBANKS LEFT East

Columns	nb				n1				n2			n3			n4				n5			n					
Classification	Base "n"				Surface Irregularity				Variations in Size and Shape of Cross-section			Obstructions			Vegetation				Meandering			Total "n" (nb+n1+n2+n3+n4)*n5					
																							0.020	0.025	0.024	0.028	0.000
	Earth	Rock	Fine Gravel	Coarse Gravel	Smooth	Minor	Moderate	Severe	Straight Gradual	Occasional Shifting	Frequent Shifting	Negligible	Minor	Appreciable	Severe	Low	Medium	High	Very High	Minor 1.0 to 1.22	Appreciable 1.2 to 1.52		Severe 1.52+				
Confluence with Santa Clara River ~ US study limit (undefined brushy open space)																											0.050

 : Not calculated from Cowan's method

Acton Canyon B

Columns			nb				n1				n2			n3				n4				n5			n	
Classification	Description of Reach, Station, or section	Cross-section	Base "n"				Surface Irregularity				Variations in Size and Shape of Cross-section			Obstructions				Vegetation				Meandering			Total "n" (nb+n1+n2+n3+n4)*n5	
			0.020	0.025	0.024	0.028	0.000	0.005	0.010	0.020	0.000	0.005	0.010	0.000	0.010	0.020	0.040	0.005	0.010	0.025	0.050	1.000	1.150	1.300		
			Earth	Rock	Fine Gravel	Coarse Gravel	Smooth	Minor	Moderate	Severe	Straight Gradual	Occasional Shifting	Frequent Shifting	Negligible	Minor	Appreciable	Severe	Low	Medium	High	Very High	Minor 1.0 to 1.22	Appreciable 1.2 to 1.52	Severe 1.52+		
	FEMA study limit to Confluence with Acton Canyon A		0.020					0.005				0.005		0.000					0.010					1.150		0.046
	Confluence with Acton Canyon A to Acton Canyon Road		0.020					0.005				0.005		0.000				0.005						1.150		0.040
	Acton Canyon Road to Sache Street		0.020					0.005				0.005		0.000				0.005						1.150		0.040
	Sache Street to US study limit		0.020					0.005				0.005		0.000				0.005						1.150		0.040

OVERBANKS RIGHT West

Columns			nb				n1				n2			n3				n4				n5			n	
Classification	Description of Reach, Station, or section	Cross-section	Base "n"				Surface Irregularity				Variations in Size and Shape of Cross-section			Obstructions				Vegetation				Meandering			Total "n" (nb+n1+n2+n3+n4)*n5	
			0.020	0.025	0.024	0.028	0.000	0.005	0.010	0.020	0.000	0.005	0.010	0.000	0.010	0.020	0.040	0.005	0.010	0.025	0.050	1.000	1.150	1.300		
			Earth	Rock	Fine Gravel	Coarse Gravel	Smooth	Minor	Moderate	Severe	Straight Gradual	Occasional Shifting	Frequent Shifting	Negligible	Minor	Appreciable	Severe	Low	Medium	High	Very High	Minor 1.0 to 1.22	Appreciable 1.2 to 1.52	Severe 1.52+		
	HDR Floodplain upper boundary to Confluence with Acton Canyon A (undefined brushy open space)																									0.050
	Confluence with Acton Canyon A to Acton Canyon Road (Low density residential and undefined brushy open space)																									0.060
	Acton Canyon Road to Sache Street (Low density residential, agriculture and undefined brushy open space)																									0.060
	Sache Street to US study limit (Low density residential and undefined brushy open space)																									0.050

OVERBANKS LEFT East

Columns			nb				n1				n2			n3				n4				n5			n	
Classification	Description of Reach, Station, or section	Cross-section	Base "n"				Surface Irregularity				Variations in Size and Shape of Cross-section			Obstructions				Vegetation				Meandering			Total "n" (nb+n1+n2+n3+n4)*n5	
			0.020	0.025	0.024	0.028	0.000	0.005	0.010	0.020	0.000	0.005	0.010	0.000	0.010	0.020	0.040	0.005	0.010	0.025	0.050	1.000	1.150	1.300		
			Earth	Rock	Fine Gravel	Coarse Gravel	Smooth	Minor	Moderate	Severe	Straight Gradual	Occasional Shifting	Frequent Shifting	Negligible	Minor	Appreciable	Severe	Low	Medium	High	Very High	Minor 1.0 to 1.22	Appreciable 1.2 to 1.52	Severe 1.52+		
	HDR Floodplain upper boundary to CDM downstream study limit (undefined brushy open space)																									0.050
	Confluence with Acton Canyon A to Acton Canyon Road																									0.060
	Acton Canyon Road to Sache Street (Low density residential, agriculture and undefined brushy open space)																									0.050
	Sache Street to US study limit (Undefined brushy open space)																									0.050

 : Not calculated from Cowan's method

Red Rover Mine

Columns		nb				n1				n2			n3			n4				n5			n	
Classification	Description of Reach, Station, or Cross-section	Base "n"				Surface Irregularity				Variations in Size and Shape of Cross-section			Obstructions			Vegetation				Meandering			Total "n" (nb+n1+n2+n3+n4)*n5	
		0.020	0.025	0.024	0.028	0.000	0.005	0.010	0.020	0.000	0.005	0.010	0.000	0.010	0.020	0.040	0.005	0.010	0.025	0.050	1.000	1.150		1.300
		Earth	Rock	Fine Gravel	Coarse Gravel	Smooth	Minor	Moderate	Severe	Straight Gradual	Occasional Shifting	Frequent Shifting	Negligible	Minor	Appreciable	Severe	Low	Medium	High	Very High	Minor 1.0 to 1.22	Appreciable 1.2 to 1.52		Severe 1.52+
	Confluence with Escondido Creek to Red Rover Mine Rd (4)	0.020					0.005				0.005		0.000				0.005					1.150		0.040
	Red Rover Mine Rd (4) to 4,300 ft DS of US study limit	0.020					0.005				0.005		0.000				0.005					1.150		0.040
	4,300 ft DS of US study limit to US study limit	0.020					0.005				0.005		0.000				0.005					1.150		0.040

OVERBANKS RIGHT West

Columns		nb				n1				n2			n3			n4				n5			n	
Classification	Description of Reach, Station, or Cross-section	Base "n"				Surface Irregularity				Variations in Size and Shape of Cross-section			Obstructions			Vegetation				Meandering			Total "n" (nb+n1+n2+n3+n4)*n5	
		0.020	0.025	0.024	0.028	0.000	0.005	0.010	0.020	0.000	0.005	0.010	0.000	0.010	0.020	0.040	0.005	0.010	0.025	0.050	1.000	1.150		1.300
		Earth	Rock	Fine Gravel	Coarse Gravel	Smooth	Minor	Moderate	Severe	Straight Gradual	Occasional Shifting	Frequent Shifting	Negligible	Minor	Appreciable	Severe	Low	Medium	High	Very High	Minor 1.0 to 1.22	Appreciable 1.2 to 1.52		Severe 1.52+
	Confluence with Escondido Creek to Red Rover Mine Rd (4) (Agriculture, low residential and undefined brushy open space)																							0.050
	Red Rover Mine Rd (4) to 4,300 ft DS of US study limit (Low Vegetation and low density residential)																							0.060
	4,300 ft DS of US study limit to US study limit (Undefined brushy open space)																							0.050

OVERBANKS LEFT East

Columns		nb				n1				n2			n3			n4				n5			n	
Classification	Description of Reach, Station, or Cross-section	Base "n"				Surface Irregularity				Variations in Size and Shape of Cross-section			Obstructions			Vegetation				Meandering			Total "n" (nb+n1+n2+n3+n4)*n5	
		0.020	0.025	0.024	0.028	0.000	0.005	0.010	0.020	0.000	0.005	0.010	0.000	0.010	0.020	0.040	0.005	0.010	0.025	0.050	1.000	1.150		1.300
		Earth	Rock	Fine Gravel	Coarse Gravel	Smooth	Minor	Moderate	Severe	Straight Gradual	Occasional Shifting	Frequent Shifting	Negligible	Minor	Appreciable	Severe	Low	Medium	High	Very High	Minor 1.0 to 1.22	Appreciable 1.2 to 1.52		Severe 1.52+
	Confluence with Escondido Creek to Red Rover Mine Rd (4) (Agriculture, low residential and undefined brushy open space)																							0.050
	Red Rover Mine Rd (4) to 4,300 ft DS of US study limit (Low Vegetation and low density residential)																							0.060
	4,300 ft DS of US study limit to US study limit (Undefined brushy open space)																							0.050

 : Not calculated from Cowan's method

Escondido Creek

Columns		nb				n1				n2			n3				n4				n5			n	
Classification	Description of Reach, Station, or Cross-section	Base "n"				Surface Irregularity				Variations in Size and Shape of Cross-section			Obstructions				Vegetation				Meandering			Total "n" (nb+n1+n2+n3+n4)*n5	
		0.020	0.025	0.024	0.028	0.000	0.005	0.010	0.020	0.000	0.005	0.010	0.000	0.010	0.020	0.040	0.005	0.010	0.025	0.050	1.000	1.150	1.300		
		Earth	Rock	Fine Gravel	Coarse Gravel	Smooth	Minor	Moderate	Severe	Straight Gradual	Occasional Shifting	Frequent Shifting	Negligible	Minor	Appreciable	Severe	Low	Medium	High	Very High	Minor 1.0 to 1.22	Appreciable 1.2 to 1.52	Severe 1.52+		
	Downstream study limit to confluence with Red Rover Mine Canyon	0.020					0.005				0.005		0.000				0.005						1.150		0.040
	Confluence with Red Rover Mine Canyon to Sierra Highway	0.020					0.005				0.005		0.000				0.005						1.150		0.040
	Sierra Highway to 3,400 ft DS of US study limit	0.020					0.005				0.005		0.000				0.005						1.150		0.040
	3,400 ft DS of US study limit to US study limit	0.020					0.005				0.005		0.000				0.005						1.150		0.040

OVERBANKS RIGHT West

Columns		nb				n1				n2			n3				n4				n5			n	
Classification	Description of Reach, Station, or Cross-section	Base "n"				Surface Irregularity				Variations in Size and Shape of Cross-section			Obstructions				Vegetation				Meandering			Total "n" (nb+n1+n2+n3+n4)*n5	
		0.020	0.025	0.024	0.028	0.000	0.005	0.010	0.020	0.000	0.005	0.010	0.000	0.010	0.020	0.040	0.005	0.010	0.025	0.050	1.000	1.150	1.300		
		Earth	Rock	Fine Gravel	Coarse Gravel	Smooth	Minor	Moderate	Severe	Straight Gradual	Occasional Shifting	Frequent Shifting	Negligible	Minor	Appreciable	Severe	Low	Medium	High	Very High	Minor 1.0 to 1.22	Appreciable 1.2 to 1.52	Severe 1.52+		
	Downstream study limit to confluence with Red Rover Mine Canyon (Low vegetation and undefined brushy open space)																								0.050
	Confluence with Red Rover Mine Canyon to Sierra Highway (Low residential and undefined brushy open space)																								0.060
	Sierra Highway to 3,400 ft DS of US study limit (Low vegetation, undefined brushy open space and low density residential)																								0.060
	3,400 ft DS of US study limit to US study limit (Undefined brushy open space)																								0.050

OVERBANKS LEFT East

Columns		nb				n1				n2			n3				n4				n5			n	
Classification	Description of Reach, Station, or Cross-section	Base "n"				Surface Irregularity				Variations in Size and Shape of Cross-section			Obstructions				Vegetation				Meandering			Total "n" (nb+n1+n2+n3+n4)*n5	
		0.020	0.025	0.024	0.028	0.000	0.005	0.010	0.020	0.000	0.005	0.010	0.000	0.010	0.020	0.040	0.005	0.010	0.025	0.050	1.000	1.150	1.300		
		Earth	Rock	Fine Gravel	Coarse Gravel	Smooth	Minor	Moderate	Severe	Straight Gradual	Occasional Shifting	Frequent Shifting	Negligible	Minor	Appreciable	Severe	Low	Medium	High	Very High	Minor 1.0 to 1.22	Appreciable 1.2 to 1.52	Severe 1.52+		
	Downstream study limit to confluence with Red Rover Mine Canyon (Low vegetation and undefined brushy open space)																								0.050
	Confluence with Red Rover Mine Canyon to Sierra Highway (Agriculture and undefined brushy open space)																								0.045
	Sierra Highway to 3,400 ft DS of US study limit (Low vegetation, undefined brushy open space and low density residential)																								0.060
	3,400 ft DS of US study limit to US study limit (Undefined brushy open space)																								0.050

 : Not calculated from Cowan's method

Aliso Canyon

Columns		nb				n1				n2			n3			n4				n5			n		
Classification	Description of Reach, Station, or Cross-section	Base "n"				Surface Irregularity				Variations in Size and Shape of Cross-section			Obstructions			Vegetation				Meandering			Total "n" (nb+n1+n2+n3+n4)*n5		
		0.020	0.025	0.024	0.028	0.000	0.005	0.010	0.020	0.000	0.005	0.010	0.015	0.000	0.010	0.020	0.040	0.005	0.010	0.025	0.050	1.000		1.150	1.300
		Earth	Rock	Fine Gravel	Coarse Gravel	Smooth	Minor	Moderate	Severe	Straight Gradual	Occasional Shifting	Frequent Shifting	Negligible	Minor	Appreciable	Severe	Low	Medium	High	Very High	Minor 1.0 to 1.22	Appreciable 1.2 to 1.52		Severe 1.52+	
	SCR confluence to US study boundary	0.020					0.005				0.005		0.000				0.005						1.150		0.040

OVERBANKS Right West

Columns		nb				n1				n2			n3			n4				n5			n		
Classification	Description of Reach, Station, or Cross-section	Base "n"				Surface Irregularity				Variations in Size and Shape of Cross-section			Obstructions			Vegetation				Meandering			Total "n" (nb+n1+n2+n3+n4)*n5		
		0.020	0.025	0.024	0.028	0.000	0.005	0.010	0.020	0.000	0.005	0.010	0.015	0.000	0.010	0.020	0.040	0.005	0.010	0.025	0.050	1.000		1.150	1.300
		Earth	Rock	Fine Gravel	Coarse Gravel	Smooth	Minor	Moderate	Severe	Straight Gradual	Occasional Shifting	Frequent Shifting	Negligible	Minor	Appreciable	Severe	Low	Medium	High	Very High	Minor 1.0 to 1.22	Appreciable 1.2 to 1.52		Severe 1.52+	
	SCR confluence to US study boundary (Agriculture, low density residential, undefined brushy open space)																								0.065

OVERBANKS Left East

Columns		nb				n1				n2			n3			n4				n5			n		
Classification	Description of Reach, Station, or Cross-section	Base "n"				Surface Irregularity				Variations in Size and Shape of Cross-section			Obstructions			Vegetation				Meandering			Total "n" (nb+n1+n2+n3+n4)*n5		
		0.020	0.025	0.024	0.028	0.000	0.005	0.010	0.020	0.000	0.005	0.010	0.015	0.000	0.010	0.020	0.040	0.005	0.010	0.025	0.050	1.000		1.150	1.300
		Earth	Rock	Fine Gravel	Coarse Gravel	Smooth	Minor	Moderate	Severe	Straight Gradual	Occasional Shifting	Frequent Shifting	Negligible	Minor	Appreciable	Severe	Low	Medium	High	Very High	Minor 1.0 to 1.22	Appreciable 1.2 to 1.52		Severe 1.52+	
	SCR confluence to US study boundary (Agriculture, low density residential, undefined brushy open space)																								0.065

 : Not calculated from Cowan's method

Trade Post Canyon

Columns		nb				n1				n2			n3				n4				n5			n	
Classification	Description of Reach, Station, or Cross-section	Base "n"				Surface Irregularity				Variations in Size and Shape of Cross-section			Obstructions				Vegetation				Meandering			Total "n" (nb+n1+n2+n3+n4)*n5	
		0.020	0.025	0.024	0.028	0.000	0.005	0.010	0.020	0.000	0.005	0.010	0.015	0.020	0.030	0.040	0.005	0.010	0.025	0.050	0.100	1.000	1.150		1.300
		Earth	Rock	Fine Gravel	Coarse Gravel	Smooth	Minor	Moderate	Severe	Straight Gradual	Occasional Shifting	Frequent Shifting	Negligible	Minor	Appreciable	Severe	Low	Medium	High	Very High	Minor 1.0 to 1.22	Appreciable 1.2 to 1.52	Severe 1.52+		
	Confluence with Soledad Canyon to Soledad Canyon Road	0.020					0.005				0.005				0.000										0.040
	Soledad Canyon Road to Tortuga Street (1,500 ft US of Soledad Canyon Road)	0.020					0.005				0.005				0.000										0.040
	Tortuga Street to Sierra Highway	0.020					0.005				0.005				0.000										0.040
	Sierra Highway to 1,000 ft US of Cattle Creek Road	0.020					0.005				0.005				0.000										0.040
	1,000 ft US of Cattle Creek Road to US study boundary	0.020					0.005				0.005				0.000										0.040

OVERBANKS Right West

Columns		nb				n1				n2			n3				n4				n5			n		
Classification	Description of Reach, Station, or Cross-section	Base "n"				Surface Irregularity				Variations in Size and Shape of Cross-section			Obstructions				Vegetation				Meandering			Total "n" (nb+n1+n2+n3+n4)*n5		
		0.020	0.025	0.024	0.028	0.000	0.005	0.010	0.020	0.000	0.005	0.010	0.015	0.020	0.030	0.040	0.005	0.010	0.025	0.050	0.100	1.000	1.150		1.300	
		Earth	Rock	Fine Gravel	Coarse Gravel	Smooth	Minor	Moderate	Severe	Straight Gradual	Occasional Shifting	Frequent Shifting	Negligible	Minor	Appreciable	Severe	Low	Medium	High	Very High	Minor 1.0 to 1.22	Appreciable 1.2 to 1.52	Severe 1.52+			
	Confluence with Soledad Canyon to Soledad Canyon Road (undefined brushy open space, ranches)																								0.050	
	Soledad Canyon Road to Tortuga Street (1,500 ft US of Soledad Canyon Road) (Low density residential and undefined brushy open space)																									0.060
	Tortuga Street to Sierra Highway(undefined brushy open space)																									0.050
	Sierra Highway to 1,000 ft US of Cattle Creek Road (Commercial, low density residential and undefined brushy open space)																									0.060
	1,000 ft US of Cattle Creek Road to US study boundary (ranches and pasture)																									0.050

OVERBANKS Left East

Columns		nb				n1				n2			n3				n4				n5			n		
Classification	Description of Reach, Station, or Cross-section	Base "n"				Surface Irregularity				Variations in Size and Shape of Cross-section			Obstructions				Vegetation				Meandering			Total "n" (nb+n1+n2+n3+n4)*n5		
		0.020	0.025	0.024	0.028	0.000	0.005	0.010	0.020	0.000	0.005	0.010	0.015	0.020	0.030	0.040	0.005	0.010	0.025	0.050	0.100	1.000	1.150		1.300	
		Earth	Rock	Fine Gravel	Coarse Gravel	Smooth	Minor	Moderate	Severe	Straight Gradual	Occasional Shifting	Frequent Shifting	Negligible	Minor	Appreciable	Severe	Low	Medium	High	Very High	Minor 1.0 to 1.22	Appreciable 1.2 to 1.52	Severe 1.52+			
	Confluence with Soledad Canyon to Soledad Canyon Road (undefined brushy open space, ranches)																									0.050
	Soledad Canyon Road to Tortuga Street (1,500 ft US of Soledad Canyon Road) (Low density residential and undefined brushy open space)																									0.060
	Tortuga Street to Sierra Highway(undefined brushy open space)																									0.050
	Sierra Highway to 1,000 ft US of Cattle Creek Road (Commercial, low density residential and undefined brushy open space)																									0.060
	1,000 ft US of Cattle Creek Road to US study boundary (ranches and pasture)																									0.045

 : Not calculated from Cowan's method

Kentucky Springs

Columns		nb				n1				n2			n3			n4				n5			n	
Classification	Description of Reach, Station, or Cross-section	Base "n"				Surface Irregularity				Variations in Size and Shape of Cross-section			Obstructions			Vegetation				Meandering			Total "n" (nb+n1+n2+n3+n4)*n5	
		0.020	0.025	0.024	0.028	0.000	0.005	0.010	0.020	0.000	0.005	0.010	0.000	0.010	0.020	0.040	0.005	0.010	0.025	0.050	1.000	1.150		1.300
		Earth	Rock	Fine Gravel	Coarse Gravel	Smooth	Minor	Moderate	Severe	Straight Gradual	Occasional Shifting	Frequent Shifting	Negligible	Minor	Appreciable	Severe	Low	Medium	High	Very High	Minor 1.0 to 1.22	Appreciable 1.2 to 1.52		Severe 1.52+
	Confluence with Soledad Canyon to US study boundary	0.020					0.005				0.005		0.000				0.005					1.150		0.040

OVERBANKS Right West

Columns		nb				n1				n2			n3			n4				n5			n	
Classification	Description of Reach, Station, or Cross-section	Base "n"				Surface Irregularity				Variations in Size and Shape of Cross-section			Obstructions			Vegetation				Meandering			Total "n" (nb+n1+n2+n3+n4)*n5	
		0.020	0.025	0.024	0.028	0.000	0.005	0.010	0.020	0.000	0.005	0.010	0.000	0.010	0.020	0.040	0.005	0.010	0.025	0.050	1.000	1.150		1.300
		Earth	Rock	Fine Gravel	Coarse Gravel	Smooth	Minor	Moderate	Severe	Straight Gradual	Occasional Shifting	Frequent Shifting	Negligible	Minor	Appreciable	Severe	Low	Medium	High	Very High	Minor 1.0 to 1.22	Appreciable 1.2 to 1.52		Severe 1.52+
	Confluence with Soledad Canyon to US study boundary (Low density residential, low vegetation and undefined brushy open space)																							0.060

OVERBANKS Left East

Columns		nb				n1				n2			n3			n4				n5			n	
Classification	Description of Reach, Station, or Cross-section	Base "n"				Surface Irregularity				Variations in Size and Shape of Cross-section			Obstructions			Vegetation				Meandering			Total "n" (nb+n1+n2+n3+n4)*n5	
		0.020	0.025	0.024	0.028	0.000	0.005	0.010	0.020	0.000	0.005	0.010	0.000	0.010	0.020	0.040	0.005	0.010	0.025	0.050	1.000	1.150		1.300
		Earth	Rock	Fine Gravel	Coarse Gravel	Smooth	Minor	Moderate	Severe	Straight Gradual	Occasional Shifting	Frequent Shifting	Negligible	Minor	Appreciable	Severe	Low	Medium	High	Very High	Minor 1.0 to 1.22	Appreciable 1.2 to 1.52		Severe 1.52+
	Confluence with Soledad Canyon to US study boundary (Low density residential, low vegetation and undefined brushy open space)																							0.060

 : Not calculated from Cowan's method

Soledad Canyon

Columns		nb				n1				n2			n3				n4				n5			n	
Classification	Description of Reach, Station, or section	Cross-	Base "n"				Surface Irregularity				Variations in Size and Shape of Cross-section			Obstructions				Vegetation				Meandering			Total "n" (nb+n1+n2+n3+n4)*n5
			0.020	0.025	0.024	0.028	0.000	0.005	0.010	0.020	0.000	0.005	0.010	0.015	0.020	0.040	0.005	0.010	0.025	0.050	1.000	1.150	1.300		
			Earth	Rock	Fine Gravel	Coarse Gravel	Smooth	Minor	Moderate	Severe	Straight Gradual	Occasional Shifting	Frequent Shifting	Negligible	Minor	Appreciable	Severe	Low	Medium	High	Very High	Minor 1.0 to 1.22	Appreciable 1.2 to 1.52	Severe 1.52+	
	Downstream study limit to Carson Mesa Rd		0.020					0.005				0.005		0.000								1.150		0.040	
	Carson Mesa Rd to Confluence with Kentucky Springs		0.020					0.005				0.005		0.000								1.150		0.040	
	Confluence with Kentucky Springs to US study limit		0.020					0.005				0.005		0.000								1.150		0.040	

OVERBANKS Right West

Columns		nb				n1				n2			n3				n4				n5			n	
Classification	Description of Reach, Station, or section	Cross-	Base "n"				Surface Irregularity				Variations in Size and Shape of Cross-section			Obstructions				Vegetation				Meandering			Total "n" (nb+n1+n2+n3+n4)*n5
			0.020	0.025	0.024	0.028	0.000	0.005	0.010	0.020	0.000	0.005	0.010	0.015	0.020	0.040	0.005	0.010	0.025	0.050	1.000	1.150	1.300		
			Earth	Rock	Fine Gravel	Coarse Gravel	Smooth	Minor	Moderate	Severe	Straight Gradual	Occasional Shifting	Frequent Shifting	Negligible	Minor	Appreciable	Severe	Low	Medium	High	Very High	Minor 1.0 to 1.22	Appreciable 1.2 to 1.52	Severe 1.52+	
	Downstream study limit to Carson Mesa Rd (undefined brushy open space)																							0.070	
	Carson Mesa Rd to Confluence with Kentucky Springs (Low density residential and undefined brushy open space)																							0.050	
	Confluence with Kentucky Springs to US study limit (undefined brushy open space)																							0.060	

OVERBANKS Left East

Columns		nb				n1				n2			n3				n4				n5			n	
Classification	Description of Reach, Station, or section	Cross-	Base "n"				Surface Irregularity				Variations in Size and Shape of Cross-section			Obstructions				Vegetation				Meandering			Total "n" (nb+n1+n2+n3+n4)*n5
			0.020	0.025	0.024	0.028	0.000	0.005	0.010	0.020	0.000	0.005	0.010	0.015	0.020	0.040	0.005	0.010	0.025	0.050	1.000	1.150	1.300		
			Earth	Rock	Fine Gravel	Coarse Gravel	Smooth	Minor	Moderate	Severe	Straight Gradual	Occasional Shifting	Frequent Shifting	Negligible	Minor	Appreciable	Severe	Low	Medium	High	Very High	Minor 1.0 to 1.22	Appreciable 1.2 to 1.52	Severe 1.52+	
	Downstream study limit to Carson Mesa Rd (undefined brushy open space)																							0.050	
	Carson Mesa Rd to Confluence with Kentucky Springs (undefined brushy open space)																							0.050	
	Confluence with Kentucky Springs to US study limit (undefined brushy open space)																							0.060	

 : Not calculated from Cowan's method