

Appendix 1 - Soil Categories within Local Source Water System Boundaries

SanGIS update 2010: figures calculated using ArcGIS 9.3

San Diego River System

Soil Category	Acres	% Area	Eroded Acres	% Eroded Area	Severely Eroded Acres	% Severely Eroded Area
Acid igneous rock land	11,444	5.6	0	0.0	0	0.0
Anderson very gravelly sandy loam	647	0.3	0	0.0	0	0.0
Arlingn coarse sandy loam	318	0.2	0	0.0	0	0.0
Bancas stony loam	1,483	0.7	0	0.0	0	0.0
Blank	5,020	2.5	0	0.0	0	0.0
Bonsall-Fallbrook sandy loams	1	0.0	0	0.0	0	0.0
Boomer loam	1,542	0.8	0	0.0	0	0.0
Boomer stony loam	8,851	4.3	0	0.0	0	0.0
Bosanko clay	34	0.0	0	0.0	0	0.0
Bosanko stony clay	224	0.1	0	0.0	0	0.0
Calpine coarse sandy loam	195	0.1	33	0.0	0	0.0
Cieneba coarse sandy loam	1,424	0.7	1,424	0.7	0	0.0
Cieneba rocky coarse sandy loam	9,123	4.5	9,123	4.5	0	0.0
Cieneba very rocky coarse sandy loam	20,703	10.1	0	0.0	0	0.0
Cieneba-Fallbrook rocky sandy loams	29,292	14.3	29,292	14.3	0	0.0
Clayey alluvial land	149	0.1	0	0.0	0	0.0
Crouch coarse sandy loam	6,200	3.0	0	0.0	0	0.0
Crouch rocky coarse sandy loam	8,666	4.2	0	0.0	0	0.0
Crouch stony fine sandy loam	211	0.1	0	0.0	0	0.0
DAMS	2	0.0	0	0.0	0	0.0
Diablo clay	0	0.0	0	0.0	0	0.0
Diablo-Urban land complex	797	0.4	0	0.0	0	0.0
Escondido very fine sandy loam	407	0.2	309	0.2	0	0.0
Fallbrook rocky sandy loam	2,576	1.3	1,604	0.8	0	0.0
Fallbrook sandy loam	8,594	4.2	7,483	3.7	763	0.4
Fallbrook-Vista sandy loams	416	0.2	0	0.0	0	0.0
Friant fine sandy loam	189	0.1	0	0.0	0	0.0
Friant rocky fine sandy loam	3,694	1.8	0	0.0	0	0.0
Greenfield sandy loam	1,910	0.9	0	0.0	0	0.0
Holland fine sandy loam	6,944	3.4	0	0.0	0	0.0
Holland stony fine sandy loam	18,519	9.0	0	0.0	0	0.0
La Posta loamy coarse sand	33	0.0	33	0.0	0	0.0
La Posta rocky loamy coarse sand	2,410	1.2	0	0.0	0	0.0
Las Posas fine sandy loam	396	0.2	339	0.2	0	0.0
Las Posas stony fine sandy loam	6,555	3.2	200	0.1	0	0.0
Linne clay loam	36	0.0	0	0.0	0	0.0
Loamy alluvial land	2,364	1.2	0	0.0	0	0.0
Metamorphic rock land	407	0.2	0	0.0	0	0.0
Mottsville loamy coarse sand	121	0.1	0	0.0	0	0.0
Olivenhain cobbly loam	3,428	1.7	0	0.0	0	0.0
Placentia sandy loam	400	0.2	34	0.0	0	0.0
Ramona gravelly sandy loam	97	0.0	0	0.0	0	0.0
Ramona sandy loam	924	0.5	504	0.2	0	0.0
Redding-Urban land complex	98	0.0	0	0.0	0	0.0
Reiff fine sandy loam	566	0.3	0	0.0	0	0.0
Riverwash	798	0.4	0	0.0	0	0.0

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Sheephead rocky fine sandy loam	18,076	8.8	18,076	8.8	0	0.0
Steep gullied land	777	0.4	0	0.0	0	0.0
stony land	93	0.0	0	0.0	0	0.0
Tollhouse rocky coarse sandy loam	5,145	2.5	0	0.0	0	0.0
Tujunga sand	1,949	1.0	0	0.0	0	0.0
Visalia sandy loam	3,119	1.5	0	0.0	0	0.0
Vista coarse sandy loam	852	0.4	31	0.0	0	0.0
Vista rocky coarse sandy loam	3,087	1.5	0	0.0	0	0.0
WATER	3,409	1.7	0	0.0	0	0.0
Wyman loam	83	0.0	0	0.0	0	0.0
Total	204,794	100.0	68,485	33.4	763	0.4

Otay-Cottonwood System

Soil Category	Acres	% Area	Eroded Acres	% Eroded Area	Severly Eroded Acres	% Severly Eroded Area
Blank	1,330	0.6	0	0.0	0	0.0
Acid igneous rock land	33,159	14.6	0	0.0	0	0.0
Anderson very gravelly sandy loam	22	0.0	0	0.0	0	0.0
Arlingn coarse sandy loam	0	0.0	0	0.0	0	0.0
Auld clay	7	0.0	0	0.0	0	0.0
Bancas stony loam	30,876	13.6	9,569	4.2	0	0.0
Boomer loam	279	0.1	0	0.0	0	0.0
Boomer stony loam	162	0.1	0	0.0	0	0.0
Bosanko stony clay	52	0.0	0	0.0	0	0.0
Bull Trail sandy loam	468	0.2	0	0.0	0	0.0
Calpine coarse sandy loam	2,408	1.1	1,032	0.5	0	0.0
Chino fine sandy loam	26	0.0	0	0.0	0	0.0
Chino silt loam saline	168	0.1	0	0.0	0	0.0
Cieneba coarse sandy loam	427	0.2	427	0.2	0	0.0
Cieneba rocky coarse sandy loam	2,173	1.0	2,173	1.0	0	0.0
Cieneba very rocky coarse sandy loam	9,728	4.3	0	0.0	0	0.0
Cieneba-Fallbrook rocky sandy loams	5,231	2.3	5,231	2.3	0	0.0
Crouch coarse sandy loam	5,239	2.3	0	0.0	0	0.0
Crouch rocky coarse sandy loam	3,688	1.6	0	0.0	0	0.0
Diablo clay	588	0.3	0	0.0	0	0.0
Diablo-Olivenhain complex	158	0.1	0	0.0	0	0.0
Escondido very fine sandy loam	1,064	0.5	892	0.4	0	0.0
Fallbrook rocky sandy loam	952	0.4	642	0.3	0	0.0
Fallbrook sandy loam	2,899	1.3	2,859	1.3	0	0.0
Fallbrook-Vista sandy loams	340	0.1	0	0.0	0	0.0
Friant fine sandy loam	1,399	0.6	0	0.0	0	0.0
Friant rocky fine sandy loam	13,176	5.8	0	0.0	0	0.0
Grangeville fine sandy loam	204	0.1	0	0.0	0	0.0
Greenfield sandy loam	312	0.1	0	0.0	0	0.0
Holland fine sandy loam	172	0.1	0	0.0	0	0.0
Holland stony fine sandy loam	337	0.1	0	0.0	0	0.0
Huerhuero loam	78	0.0	36	0.0	0	0.0
Kitchen Creek loamy coarse sand	325	0.1	37	0.0	0	0.0
La Posta loamy coarse sand	5,720	2.5	5,647	2.5	73	0.0
La Posta rocky loamy coarse sand	18,505	8.2	10,540	4.6	0	0.0

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La Posta-Sheephead complex	602	0.3	0	0.0	0	0.0
Las Flores loamy fine sand	10	0.0	10	0.0	0	0.0
Las Posas fine sandy loam	992	0.4	992	0.4	0	0.0
Las Posas stony fine sandy loam	13,028	5.7	1,547	0.7	0	0.0
Linne clay loam	86	0.0	0	0.0	0	0.0
Loamy alluvial land	2,139	0.9	0	0.0	0	0.0
Metamorphic rock land	1,514	0.7	0	0.0	0	0.0
Mottsville loamy coarse sand	7,902	3.5	0	0.0	0	0.0
Olivenhain cobbly loam	4,056	1.8	0	0.0	0	0.0
Placentia sandy loam	554	0.2	300	0.1	0	0.0
Ramona gravelly sandy loam	329	0.1	0	0.0	0	0.0
Ramona sandy loam	1,455	0.6	697	0.3	0	0.0
Redding cobbly loam	254	0.1	0	0.0	0	0.0
Reiff fine sandy loam	1,056	0.5	0	0.0	0	0.0
Riverwash	687	0.3	0	0.0	0	0.0
Rough broken land	42	0.0	0	0.0	0	0.0
San Miguel rocky silt loam	16	0.0	0	0.0	0	0.0
San Miguel-Exchequer rocky silt loams	13,301	5.9	0	0.0	0	0.0
Sheephead rocky fine sandy loam	19,547	8.6	19,547	8.6	0	0.0
Steep gullied land	92	0.0	0	0.0	0	0.0
Tujunga sand	191	0.1	0	0.0	0	0.0
Visalia gravelly sandy loam	228	0.1	0	0.0	0	0.0
Visalia sandy loam	1,520	0.7	0	0.0	0	0.0
Vista coarse sandy loam	1,948	0.9	1,045	0.5	0	0.0
Vista rocky coarse sandy loam	4,600	2.0	0	0.0	0	0.0
WATER	3,052	1.3	0	0.0	0	0.0
Wyman loam	127	0.1	0	0.0	0	0.0
Tollhouse rocky coarse sandy loam	5,905	2.6	4,857	2.1	0	0.0
stony land	110	0.0	0	0.0	0	0.0
Total	227,018	100.0	68,081	30.0	73	0.0

Miramar System

Soil Category	Acres	% Area	Eroded Acres	% Eroded Area	Severly Eroded Acres	% Severly Eroded Area
Redding cobbly loam	319	49	0	NA	0	NA
Redding cobbly loam dissected	29	5	0	NA	0	NA
Redding gravelly loam	159	25	0	NA	0	NA
Redding-Urban land complex	12	2	0	NA	0	NA
San Miguel-Exchequer rocky silt loams	4	1	0	NA	0	NA
WATER	122	19	0	NA	0	NA
Total	645	100	0	NA	0	NA

Hodges System

Soil Category	Acres	% Area	Eroded Acres	% Eroded Area	Severly Eroded Acres	% Severly Eroded Area
Acid igneous rock land	4,896	3.1	0	0.0	0	0.0
Arlingn coarse sandy loam	262	0.2	0	0.0	0	0.0
Auld clay	8	0.0	0	0.0	0	0.0
Bancas stony loam	3,388	2.1	0	0.0	0	0.0
Bonsall sandy loam	2,298	1.5	643	0.4	0	0.0
Bonsall-Fallbrook sandy loams	2,396	1.5	0	0.0	0	0.0

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Boomer loam	33	0.0	0	0.0	0	0.0
Boomer stony loam	3,279	2.1	0	0.0	0	0.0
Bosanko clay	550	0.3	0	0.0	0	0.0
Calpine coarse sandy loam	17	0.0	0	0.0	0	0.0
Chino fine sandy loam	680	0.4	0	0.0	0	0.0
Chino silt loam saline	923	0.6	0	0.0	0	0.0
Cieneba coarse sandy loam	4,745	3.0	4,745	3.0	0	0.0
Cieneba rocky coarse sandy loam	4,719	3.0	4,719	3.0	0	0.0
Cieneba very rocky coarse sandy loam	13,019	8.2	0	0.0	0	0.0
Cieneba-Fallbrook rocky sandy loams	33,362	21.1	33,362	21.1	0	0.0
Clayey alluvial land	324	0.2	0	0.0	0	0.0
Crouch coarse sandy loam	136	0.1	0	0.0	0	0.0
Crouch rocky coarse sandy loam	322	0.2	0	0.0	0	0.0
DAMS	19	0.0	0	0.0	0	0.0
Diablo clay	395	0.2	33	0.0	0	0.0
Diablo-Olivenhain complex	348	0.2	0	0.0	0	0.0
Diablo-Urban land complex	20	0.0	0	0.0	0	0.0
Escondido very fine sandy loam	331	0.2	327	0.2	0	0.0
Exchequer rocky silt loam	10	0.0	0	0.0	0	0.0
Fallbrook rocky sandy loam	4,247	2.7	770	0.5	0	0.0
Fallbrook sandy loam	22,319	14.1	18,770	11.9	1,213	0.8
Fallbrook-Vista sandy loams	1,895	1.2	0	0.0	0	0.0
Friant rocky fine sandy loam	1,024	0.6	0	0.0	0	0.0
Grangeville fine sandy loam	95	0.1	0	0.0	0	0.0
Gravel pits	10	0.0	0	0.0	0	0.0
Greenfield sandy loam	487	0.3	0	0.0	0	0.0
Holland fine sandy loam	901	0.6	0	0.0	0	0.0
Holland stony fine sandy loam	6,469	4.1	0	0.0	0	0.0
La Posta rocky loamy coarse sand	46	0.0	0	0.0	0	0.0
Las Posas fine sandy loam	1,502	0.9	865	0.5	0	0.0
Las Posas stony fine sandy loam	8,241	5.2	684	0.4	0	0.0
Linne clay loam	40	0.0	0	0.0	0	0.0
Loamy alluvial land	760	0.5	0	0.0	0	0.0
Mottsville loamy coarse sand	20	0.0	0	0.0	0	0.0
Olivenhain cobbly loam	784	0.5	0	0.0	0	0.0
Placentia sandy loam	4,344	2.7	74	0.0	0	0.0
Ramona gravelly sandy loam	60	0.0	0	0.0	0	0.0
Ramona sandy loam	4,963	3.1	2,000	1.3	0	0.0
Reiff fine sandy loam	125	0.1	0	0.0	0	0.0
Riverwash	1,353	0.9	0	0.0	0	0.0
Rough broken land	266	0.2	0	0.0	0	0.0
San Miguel rocky silt loam	169	0.1	0	0.0	0	0.0
San Miguel-Exchequer rocky silt loams	1,476	0.9	0	0.0	0	0.0
Sheephead rocky fine sandy loam	1,132	0.7	1,132	0.7	0	0.0
Steep gullied land	476	0.3	0	0.0	0	0.0
stony land	58	0.0	0	0.0	0	0.0
Tollhouse rocky coarse sandy loam	157	0.1	0	0.0	0	0.0
Tujunga sand	1,871	1.2	0	0.0	0	0.0
Visalia sandy loam	6,881	4.3	0	0.0	0	0.0
Vista coarse sandy loam	4,731	3.0	1,970	1.2	0	0.0

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Vista rocky coarse sandy loam	3,572	2.3	0	0.0	0	0.0
WATER	1,215	0.8	0	0.0	0	0.0
Wyman loam	104	0.1	0	0.0	0	0.0
Total	158,272	100.0	70,095	44.3	1,213	0.8