Site # 01 Site Location Calleguas Creek at Lewis Road	d, near CSU, Channel Islands Date 17-Mar-99
Latitude 34° 10.646' N Longitude 119° 02.836' W Cr	ew Names Mark Rains & Cher Wellonen
Drainage Area (sq mi) 248	Coarse, Noncohesive Bank Strata N/A
Strahler Stream Order (1:24,000) 5	Bank Vegetation, Tree none
River Miles to Mugu Lagoon4.8	Bank Vegetation, Shrub none
Adjacent Land Uses row crop, orchard	Bank Vegetation, Herb trace
Drainage Land Uses natural/range, mining,	Flow Duration perennial
rowcrop, orchard, low- & high-density urban	Tidal Influence none
Landscape Landform delta plain	Base Flow Alterations, Magnitude higher
Landscape Position drainageway	Base Flow Alterations, Duration longer
Landscape Featur drainageway	Peak Flow Alteration, Magnitude higher
Local Topography level	Peak Flow Alteration, Timing earlier
Landscape Confine	Peak Flow Alterations, Duration shorter
Channel Bank Full Width (ft) 80	Sediment Accomodation Space Trend filling
Channel Bank Full Mean Depth (ft) 6.5	Levees not setback
Channel Floodprone Area Width (ft) 120	Channel Hardscaping rock rip-rap banks
Channel Entrenchment Ratio 1.5	Channel Straightening 🔽
Channel Energy Slope 0-2%	Vegetation Clearing
Channel Sinuosity 1.0	Dredging/Aggregate Extraction
Channel Bed Materials natural	Fill/Debris Placement
Channel Median Bed Material Size sand	Plant Series Bulrush Series
Bank Height (ft) 20	Plant Series California Annual Grassland Series
Bank Angle 21°	Plant Series Riparian Scrub Series
Bank Materials rock rip-rap	Plant Sereis N/A
Notes N/A	

Site # 02 Site Location Calleguas Creek at Hwy 1 brid	ge crossing, down-gradient Date 17-Mar-99
Latitude 34° 06.726' N Longitude 119° 04.967' W Cro	ew Names Mark Rains & Cher Wellonen
Drainage Area (sq mi) 263	Coarse, Noncohesive Bank Strata 3
Strahler Stream Order (1:24,000) 5	Bank Vegetation, Tree none
River Miles to Mugu Lagoon 0	Bank Vegetation, Shrub abundant
Adjacent Land Uses natural/range	Bank Vegetation, Herb abundant
Drainage Land Uses natural/range, mining, rowcrop, orchard, low- &	Flow Duration perennial
high-density urban	Tidal Influence       freshwater tidal
Landscape Landform delta plain	Base Flow Alterations, Magnitude higher
Landscape Position drainageway	Base Flow Alterations, Duration longer
Landscape Featur drainageway	Peak Flow Alteration, Magnitude higher
Local Topography level	Peak Flow Alteration, Timing earlier
Landscape Confine	Peak Flow Alterations, Duration       shorter
Channel Bank Full Width (ft) 180	Sediment Accomodation Space Trend filling
Channel Bank Full Mean Depth (ft) 8	Levees none
Channel Floodprone Area Width (ft) 204	Channel Hardscaping none
Channel Entrenchment Ratio 1.1	Channel Straightening 🔽
Channel Energy Slope 0-2%	Vegetation Clearing
Channel Sinuosity 1.0	Dredging/Aggregate Extraction
Channel Bed Materials natural	Fill/Debris Placement
Channel Median Bed Material Size sand	Plant Series Giant Reed Series
Bank Height (ft) 10	Plant Series Mulefat-Coyote Brush Series
Bank Angle 59°	Plant Series N/A
Bank Materials natural	Plant Sereis N/A
<b>Notes</b> Deep turbid water; H4=estuarine deposit (bank strata).	

Site # 03 Site Location Revolon Slough, Hueneme Roa	d bridge crossing, up-gradient Date 17-Mar-99
Latitude 34° 09.070' N Longitude 119° 05.290' W Cre	w Names Mark Rains & Cher Wellonen
Drainage Area (sq mi) 60	Coarse, Noncohesive Bank Strata N/A
Strahler Stream Order (1:24,000) 4	Bank Vegetation, Tree none
River Miles to Mugu Lagoon 3	Bank Vegetation, Shrub abundant
Adjacent Land Uses row crop	Bank Vegetation, Herb trace
Drainage Land Uses natural/range, rowcrop, orchard, low- & high-	Flow Duration perennial
density urban	Tidal Influence none
Landscape Landform delta plain	Base Flow Alterations, Magnitude higher
Landscape Position drainageway	Base Flow Alterations, Duration longer
Landscape Featur drainageway	Peak Flow Alteration, Magnitude higher
Local Topography level	<b>Peak Flow Alteration, Timing</b> earlier
Landscape Confine	Peak Flow Alterations, Duration       shorter
Channel Bank Full Width (ft) 105	Sediment Accomodation Space Trend filling
Channel Bank Full Mean Depth (ft) 4.5	Levees not setback
Channel Floodprone Area Width (ft) 210	Channel Hardscaping rock rip-rap banks
Channel Entrenchment Ratio 2.0	Channel Straightening 🔽
Channel Energy Slope 0-2%	Vegetation Clearing
Channel Sinuosity 1.0	Dredging/Aggregate Extraction
Channel Bed Materials natural	Fill/Debris Placement
Channel Median Bed Material Size clay/silt	Plant Series Mulefat Series
Bank Height (ft) 20	Plant Series Ruderal Grassland Series
Bank Angle 12°	Plant Series Arroyo Willow Series
Bank Materials rock rip-rap	Plant Sereis Cocklebur Series
Notes Excavator onsite (dredging/extraction).	

Site # 04 Site Location Revolon Slough at Laguna Roa	ad bridge crossing Date 17-Mar-99
Latitude 34° 10.564' N Longitude 119° 06.013' W Cre	ew Names Mark Rains & Cher Wellonen
Drainage Area (sq mi) 50	Coarse, Noncohesive Bank Strata N/A
Strahler Stream Order (1:24,000) 4	Bank Vegetation, Tree none
<b>River Miles to Mugu Lagoon</b> 4.8	Bank Vegetation, Shrub none
Adjacent Land Uses row crop	Bank Vegetation, Herb none
Drainage Land Uses natural/range, rowcrop, orchard, low- & high-	Flow Duration perennial
density urban	Tidal Influence none
Landscape Landform delta plain	Base Flow Alterations, Magnitude higher
Landscape Position drainageway	Base Flow Alterations, Duration longer
Landscape Featur drainageway	Peak Flow Alteration, Magnitude higher
Local Topography level	Peak Flow Alteration, Timing earlier
Landscape Confine	Peak Flow Alterations, Duration       shorter
Channel Bank Full Width (ft) 63	Sediment Accomodation Space Trend unchanging
Channel Bank Full Mean Depth (ft) 3.5	Levees none
Channel Floodprone Area Width (ft) 63	Channel Hardscaping concrete bed & banks
Channel Entrenchment Ratio 1.0	Channel Straightening 🔽
Channel Energy Slope 0-2%	Vegetation Clearing
Channel Sinuosity >1.0-1.5	Dredging/Aggregate Extraction
Channel Bed Materials concrete	Fill/Debris Placement
Channel Median Bed Material Size N/A	Plant Series N/A no vegetation present onsite
Bank Height (ft) 14	Plant Series N/A
Bank Angle 90°	Plant Series N/A
Bank Materials concrete	Plant Sereis N/A
<b>Notes</b> Gaging station present (possibly real-time).	

Site # 05 Site Location Beardsley Wash, Central Aven	ue bridge crossing, upgradient Date 17-Mar-99
Latitude 34° 13.802' N Longitude 119° 06.766' W Cr	ew Names Mark Rains & Cher Wellonen
Drainage Area (sq mi) 47	Coarse, Noncohesive Bank Strata N/A
Strahler Stream Order (1:24,000) 4	Bank Vegetation, Tree none
River Miles to Mugu Lagoon 9.4	Bank Vegetation, Shrub none
Adjacent Land Uses row crop	Bank Vegetation, Herb none
Drainage Land Uses natural/range, rowcrop, orchard, low-density	Flow Duration seasonal
urban	Tidal Influence none
Landscape Landform delta plain	Base Flow Alterations, Magnitude higher
Landscape Position drainageway	Base Flow Alterations, Duration longer
Landscape Featur drainageway	Peak Flow Alteration, Magnitude higher
Local Topography level	Peak Flow Alteration, Timing earlier
Landscape Confine	Peak Flow Alterations, Duration       shorter
Channel Bank Full Width (ft) 39	Sediment Accomodation Space Trend unchanging
Channel Bank Full Mean Depth (ft) 4	Levees none
Channel Floodprone Area Width (ft) 39	Channel Hardscaping concrete bed & banks
Channel Entrenchment Ratio 1.0	Channel Straightening 🔽
Channel Energy Slope 0-2%	Vegetation Clearing
Channel Sinuosity 1.0	Dredging/Aggregate Extraction
Channel Bed Materials concrete	Fill/Debris Placement
Channel Median Bed Material Size N/A	Plant Series N/A no vegetation present onsite
Bank Height (ft) 10	Plant Series N/A
Bank Angle 90°	Plant Series N/A
Bank Materials concrete	Plant Sereis N/A
Notes N/A	

Site # 06 Site Location Beardsley Wash, north of Wrig	ht Road, near new golf course Date 17-Mar-99
Latitude 34° 14.626' N Longitude 119° 05.791' W Cre	ew Names M. Rains, D. Magney, & C. Wellonen
Drainage Area (sq mi) 44	Coarse, Noncohesive Bank Strata
Strahler Stream Order (1:24,000) 4	Bank Vegetation, Tree abundant
<b>River Miles to Mugu Lagoon</b> 10.8	Bank Vegetation, Shrub abundant
Adjacent Land Uses orchard, low-density urban	Bank Vegetation, Herb abundant
Drainage Land Uses natural/range, orchard, low-density	Flow Duration seasonal
urban	Tidal Influence none
Landscape Landform hill	Base Flow Alterations, Magnitude higher
Landscape Position toe slope	Base Flow Alterations, Duration longer
Landscape Featur drainageway	Peak Flow Alteration, Magnitude higher
Local Topography gently rolling	Peak Flow Alteration, Timing       earlier
Landscape Confine	Peak Flow Alterations, Duration shorter
Channel Bank Full Width (ft) 30	Sediment Accomodation Space Trend filling
Channel Bank Full Mean Depth (ft) 3.0	Levees setback
Channel Floodprone Area Width (ft) 100	Channel Hardscaping No
Channel Entrenchment Ratio 3.3	Channel Straightening
Channel Energy Slope 0-2%	Vegetation Clearing
Channel Sinuosity >1.0-1.5	Dredging/Aggregate Extraction
Channel Bed Materials natural	Fill/Debris Placement 🔽
Channel Median Bed Material Size sand	Plant Series Red Willow Series
Bank Height (ft) 10	Plant Series Eucalyptus Series
Bank Angle 13°	Plant Series Arroyo Willow Series
Bank Materials natural	Plant Sereis N/A
Notes Roadfill on left terrace.	

#### CALLEGUAS CREEK WATERSHED ADVANCED IDENTIFICATION GEOMORPHOLOGY DATA SHEET

Site # 07 Site Location Unnamed tributary, La Vista A	Avenue bridge, down-gradient Date 17-Mar-99
Latitude 34° 15.935' N Longitude 119° 05.679' W Cr	ew Names Mark Rains & Cher Wellonen
Drainage Area (sq mi) 1.6	Coarse, Noncohesive Bank Strata N/A
Strahler Stream Order (1:24,000) 2	Bank Vegetation, Tree none
<b>River Miles to Mugu Lagoon</b> 12.5	Bank Vegetation, Shrub none
Adjacent Land Uses orchard, low-density urban	Bank Vegetation, Herb abundant
Drainage Land Uses natural/range, orchard, low-density	Flow Duration seasonal
urban	Tidal Influence none
Landscape Landform hill	Base Flow Alterations, Magnitude higher
Landscape Position toe slope	Base Flow Alterations, Duration longer
Landscape Featur drainageway	Peak Flow Alteration, Magnitude higher
Local Topography gently rolling	Peak Flow Alteration, Timing earlier
Landscape Confine	Peak Flow Alterations, Duration       shorter
Channel Bank Full Width (ft) 20	Sediment Accomodation Space Trend filling
Channel Bank Full Mean Depth (ft) 1.0	Levees not setback
Channel Floodprone Area Width (ft) 35	Channel Hardscaping rock rip-rap banks
Channel Entrenchment Ratio 1.75	Channel Straightening 🔽
Channel Energy Slope 0-2%	Vegetation Clearing
Channel Sinuosity 1.0	Dredging/Aggregate Extraction
Channel Bed Materials natural	Fill/Debris Placement
Channel Median Bed Material Size sand	Plant Series Ruderal Grassland Series
Bank Height (ft) 15	Plant Series N/A
Bank Angle 30°	Plant Series N/A
Bank Materials rock rip-rap	Plant Sereis N/A

Notes Tributary unconnected on topo map; check dam ~1000' d-g; site remote-never closer than ~200'.

#### CALLEGUAS CREEK WATERSHED ADVANCED IDENTIFICATION GEOMORPHOLOGY DATA SHEET

Site # 08 Site Location Milligan Barranca, La Loma	a Avenue crossing, down-gradient Date 17-Mar-99
Latitude 34° 17.243' N Longitude 119° 03.937' W	Crew Names M. Rains, D. Magney, & C. Wellonen
Drainage Area (sq mi) 1.6	Coarse, Noncohesive Bank Strata 0
Strahler Stream Order (1:24,000) 2	Bank Vegetation, Tree abundant
River Miles to Mugu Lagoon 15.2	Bank Vegetation, Shrub abundant
Adjacent Land Uses orchard	Bank Vegetation, Herb abundant
Drainage Land Uses natural/range, orchard	Flow Duration ephemeral
	Tidal Influence none
Landscape Landform hill	Base Flow Alterations, Magnitude unchanged
Landscape Position toe slope	Base Flow Alterations, Duration unchanged
Landscape Featur drainageway	Peak Flow Alteration, Magnitude unchanged
Local Topography gently rolling	Peak Flow Alteration, Timing unchanged
Landscape Confine	Peak Flow Alterations, Duration unchanged
Channel Bank Full Width (ft) 10	Sediment Accomodation Space Trend incising
Channel Bank Full Mean Depth (ft) 3.0	Levees none
Channel Floodprone Area Width (ft) 25	Channel Hardscaping none
Channel Entrenchment Ratio 2.5	Channel Straightening
Channel Energy Slope 0-2%	Vegetation Clearing
Channel Sinuosity >1.0-1.5	Dredging/Aggregate Extraction
Channel Bed Materials natural	Fill/Debris Placement 🗹
Channel Median Bed Material Size sand	Plant Series Arroyo Willow Series
Bank Height (ft) 35	Plant Series Cape Ivy Series
Bank Angle43°	Plant Series N/A
Bank Materials natural	Plant Sereis N/A

Notes Alterations moderate; deeply entrenched barranca; site remote-banks too steep to descend/ascend.

#### CALLEGUAS CREEK WATERSHED ADVANCED IDENTIFICATION GEOMORPHOLOGY DATA SHEET

Site # 09 Site Location Fox Barranca at Barylwood	Road crossing, up-gradientDate17-Mar-99
Latitude 34° 17.168' N Longitude 119° 01.450' W	Crew Names M. Rains, D. Magney, & C. Wellonen
Drainage Area (sq mi) 2.2	Coarse, Noncohesive Bank Strata
Strahler Stream Order (1:24,000) 3	Bank Vegetation, Tree abundant
River Miles to Mugu Lagoon 16	Bank Vegetation, Shrub abundant
Adjacent Land Uses orchard	Bank Vegetation, Herb abundant
Drainage Land Uses natural/range, orchard	Flow Duration ephemeral
	Tidal Influence none
Landscape Landform hill	Base Flow Alterations, Magnitude unchanged
Landscape Position toe slope	Base Flow Alterations, Duration unchanged
Landscape Featur drainageway	Peak Flow Alteration, Magnitude unchanged
Local Topography gently rolling	Peak Flow Alteration, Timing unchanged
Landscape Confine	Peak Flow Alterations, Duration unchanged
Channel Bank Full Width (ft) 150	Sediment Accomodation Space Trend filling
Channel Bank Full Mean Depth (ft) 2.0	Levees none
Channel Floodprone Area Width (ft) 30	Channel Hardscaping none
Channel Entrenchment Ratio 2.0	Channel Straightening
Channel Energy Slope 0-2%	Vegetation Clearing
Channel Sinuosity >1.0-1.5	Dredging/Aggregate Extraction
Channel Bed Materials natural	Fill/Debris Placement
Channel Median Bed Material Size sand	Plant Series Mexican Elderberry Series
Bank Height (ft) 50	Plant Series Eucalyptus Series
Bank Angle 50°	Plant Series N/A
Bank Materials natural	Plant Sereis N/A

Notes Alt mod; underfit road crossing present; deeply entrenched barranca; remote site-banks too steep.

#### CALLEGUAS CREEK WATERSHED ADVANCED IDENTIFICATION GEOMORPHOLOGY DATA SHEET

Site # 10 Site Location Fox Barranca at Barylwood R	oad, down-gradient Date 17-Mar-99
Latitude 34° 17.094' N Longitude 119° 01.403' W Cu	rew Names M. Rains, D. Magney, & C. Wellonen
Drainage Area (sq mi) 2.2	Coarse, Noncohesive Bank Strata
Strahler Stream Order (1:24,000) 3	Bank Vegetation, Tree none
River Miles to Mugu Lagoon 16	Bank Vegetation, Shrub abundant
Adjacent Land Uses orchard	Bank Vegetation, Herb abundant
Drainage Land Uses natural/range, orchard	Flow Duration ephemeral
	Tidal Influence none
Landscape Landform hill	Base Flow Alterations, Magnitude unchanged
Landscape Position toe slope	Base Flow Alterations, Duration unchanged
Landscape Featur drainageway	Peak Flow Alteration, Magnitude unchanged
Local Topography gently rolling	Peak Flow Alteration, Timing unchanged
Landscape Confine	Peak Flow Alterations, Duration unchanged
Channel Bank Full Width (ft) 18	Sediment Accomodation Space Trend filling
Channel Bank Full Mean Depth (ft) 1.0	Levees none
Channel Floodprone Area Width (ft) 33	Channel Hardscaping none
Channel Entrenchment Ratio 1.8	Channel Straightening
Channel Energy Slope 0-2%	Vegetation Clearing 🔽
Channel Sinuosity >1.0-1.5	Dredging/Aggregate Extraction
Channel Bed Materials natural	Fill/Debris Placement 🔽
Channel Median Bed Material Size sand	Plant Series Mexican Elderberry Series
Bank Height (ft) 40	Plant Series N/A
Bank Angle 45°	Plant Series Big Saltbush Series
Bank Materials natural	Plant Sereis CA Sagebrush-Giant Wildrye Series
	1

**Notes** Alterations likely are moderate; filling = bank erosion deposition.

#### CALLEGUAS CREEK WATERSHED ADVANCED IDENTIFICATION GEOMORPHOLOGY DATA SHEET

Site # 11 Site Location CSU, Channel Is.; Long Grade	Canyon Creek-Police Station Date 17-Mar-99
Latitude 34° 09.882' N Longitude 119° 02.486' W Cr	ew Names M. Rains, D. Magney, & C. Wellonen
Drainage Area (sq mi) 2	Coarse, Noncohesive Bank Strata N/A
Strahler Stream Order (1:24,000) 3	Bank Vegetation, Tree none
River Miles to Mugu Lagoon N/A	Bank Vegetation, Shrub none
Adjacent Land Uses natural/range, low-density urban	Bank Vegetation, Herb abundant
Drainage Land Uses natural/range, low-density urban	Flow Duration ephemeral
urban	Tidal Influence none
Landscape Landform hill	Base Flow Alterations, Magnitude unchanged
Landscape Position toe slope	Base Flow Alterations, Duration unchanged
Landscape Featur drainageway	Peak Flow Alteration, Magnitude lower
Local Topography rugged	Peak Flow Alteration, Timing later
Landscape Confine 🔽	Peak Flow Alterations, Duration       longer
Channel Bank Full Width (ft) 18	Sediment Accomodation Space Trend unchanging
Channel Bank Full Mean Depth (ft) 1.5	Levees none
Channel Floodprone Area Width (ft) 30	Channel Hardscaping rock rip-rap bed & banks
Channel Entrenchment Ratio 1.7	Channel Straightening 🔽
Channel Energy Slope 0-2%	Vegetation Clearing
Channel Sinuosity >1.0-1.5	Dredging/Aggregate Extraction
Channel Bed Materials rock rip-rap	Fill/Debris Placement
Channel Median Bed Material Size sand	Plant Series Mulefat Series
Bank Height (ft) 8	Plant Series Coast Prickly-pear Series
Bank Angle 18°	Plant Series N/A
Bank Materials rock rip-rap	Plant Sereis N/A

Notes Drainage discharges to field behind levee; not connected to Mugu Lagoon; debris dam present.

#### CALLEGUAS CREEK WATERSHED ADVANCED IDENTIFICATION GEOMORPHOLOGY DATA SHEET

Site # 12   Site Location   Coyote Canyon at Bradley	Road crossing, down-gradient Date 18-Mar-99
Latitude 34° 18.106' N Longitude 118° 59.784' W	Crew Names Mark Rains & Cher Wellonen
Drainage Area (sq mi) 2.4	Coarse, Noncohesive Bank Strata 1,3
Strahler Stream Order (1:24,000) 2	Bank Vegetation, Tree none
River Miles to Mugu Lagoon 16	Bank Vegetation, Shrub none
Adjacent Land Uses row crop, orchad	Bank Vegetation, Herb abundant
Drainage Land Uses natural/range, orchard, low-density urban	Flow Duration ephemeral
	Tidal Influence none
Landscape Landform hill	Base Flow Alterations, Magnitude unchanged
Landscape Position foot slope	Base Flow Alterations, Duration unchanged
Landscape Featur drainageway	Peak Flow Alteration, Magnitude unchanged
Local Topography rugged	Peak Flow Alteration, Timing unchanged
Landscape Confine	Peak Flow Alterations, Duration unchanged
Channel Bank Full Width (ft) 30	Sediment Accomodation Space Trend unchanging
Channel Bank Full Mean Depth (ft) 1.0	Levees none
Channel Floodprone Area Width (ft) 35	Channel Hardscaping none; concrete bed & banks
Channel Entrenchment Ratio 1.2	Channel Straightening
Channel Energy Slope >10%	Vegetation Clearing
Channel Sinuosity >1.0-1.5	Dredging/Aggregate Extraction
Channel Bed Materials natural, concrete	Fill/Debris Placement
Channel Median Bed Material Size sand	Plant Series Mulefat Series
Bank Height (ft) 40	Plant Series Big Saltbush Series
Bank Angle 53°	Plant Series N/A
Bank Materials natural	Plant Sereis N/A

**Notes** Many ck dams (step river down ~80');alterations mod.;deeply incised barranca; remote site; banks steep.

Site # 13 Site Location Long Canyon at Stockton Road	l crossing, down-gradient Date 18-Mar-99
Latitude 34° 18.469' N Longitude 118° 56.476' W Cro	ew Names Mark Rains & Cher Wellonen
Drainage Area (sq mi) 1.4	Coarse, Noncohesive Bank Strata 2
Strahler Stream Order (1:24,000) 2	Bank Vegetation, Tree abundant
River Miles to Mugu Lagoon 18	Bank Vegetation, Shrub abundant
Adjacent Land Uses natural/range	Bank Vegetation, Herb abundant
Drainage Land Uses natural/range, orchard, low-density urban	Flow Duration ephemeral
	Tidal Influence none
Landscape Landform hill	Base Flow Alterations, Magnitude unchanged
Landscape Position foot slope	Base Flow Alterations, Duration unchanged
Landscape Featur drainageway	Peak Flow Alteration, Magnitude unchanged
Local Topography rugged	Peak Flow Alteration, Timing unchanged
Landscape Confine	Peak Flow Alterations, Duration unchanged
Channel Bank Full Width (ft) 20	Sediment Accomodation Space Trend unchanging
Channel Bank Full Mean Depth (ft) 2.0	Levees none
Channel Floodprone Area Width (ft) 25	Channel Hardscaping none
Channel Entrenchment Ratio 1.3	Channel Straightening
Channel Energy Slope 0-2%	Vegetation Clearing
Channel Sinuosity >1.0-1.5	Dredging/Aggregate Extraction
Channel Bed Materials natural	Fill/Debris Placement
Channel Median Bed Material Size sand	Plant Series California Walnut Series
Bank Height (ft) 5	Plant Series N/A
Bank Angle 90°	Plant Series N/A
Bank Materials natural	Plant Sereis N/A
Notes Alterations likely are moderate.	

#### CALLEGUAS CREEK WATERSHED ADVANCED IDENTIFICATION GEOMORPHOLOGY DATA SHEET

Site # 14 Site Location Long Canyon at Stockton R	Load crossing, up-gradientDate18-Mar-99
Latitude 34° 18.538' N Longitude 118° 56.509' W	Crew Names Mark Rains & Cher Wellonen
Drainage Area (sq mi) 1.4	Coarse, Noncohesive Bank Strata
Strahler Stream Order (1:24,000) 2	Bank Vegetation, Tree none
River Miles to Mugu Lagoon 18	Bank Vegetation, Shrub none
Adjacent Land Uses orchard	Bank Vegetation, Herb abundant
Drainage Land Uses natural/range, orchard, low-density urban	Flow Duration ephemeral
	Tidal Influence none
Landscape Landform hill	Base Flow Alterations, Magnitude unchanged
Landscape Position foot slope	Base Flow Alterations, Duration unchanged
Landscape Featur drainageway	Peak Flow Alteration, Magnitude unchanged
Local Topography rugged	Peak Flow Alteration, Timing unchanged
Landscape Confine	Peak Flow Alterations, Duration unchanged
Channel Bank Full Width (ft) 18	Sediment Accomodation Space Trend filling
Channel Bank Full Mean Depth (ft) 2.0	Levees none
Channel Floodprone Area Width (ft) 24	Channel Hardscaping none
Channel Entrenchment Ratio 1.3	Channel Straightening
Channel Energy Slope 0-2%	Vegetation Clearing
Channel Sinuosity >1.0-1.5	Dredging/Aggregate Extraction
Channel Bed Materials natural	Fill/Debris Placement
Channel Median Bed Material Size sand	Plant Series Ruderal Grassland Series
Bank Height (ft) 5	Plant Series N/A
Bank Angle 25°	Plant Series N/A
Bank Materials natural	Plant Sereis N/A

**Notes** No indicators for accurate BF Mean Depth; flow alterations mod.; site remote; did not cross fenceline.

Site # 15 Site Location Unnamed tributary, Grimes R	oad; near watershed boundary Date 18-Mar-99
Latitude 34° 20.155' N Longitude 118° 54.135' W Cr	www.wames Mark Rains & Cher Wellonen
Drainage Area (sq mi) 0.06	Coarse, Noncohesive Bank Strata
Strahler Stream Order (1:24,000)	Bank Vegetation, Tree abundant
River Miles to Mugu Lagoon 22	Bank Vegetation, Shrub abundant
Adjacent Land Uses natural/range	Bank Vegetation, Herb abundant
Drainage Land Uses natural/range	Flow Duration ephemeral
	Tidal Influence none
Landscape Landform hill	Base Flow Alterations, Magnitude unchanged
Landscape Position back slope	Base Flow Alterations, Duration unchanged
Landscape Featur drainageway	Peak Flow Alteration, Magnitude unchanged
Local Topography rugged	Peak Flow Alteration, Timing unchanged
Landscape Confine 🔽	Peak Flow Alterations, Duration unchanged
Channel Bank Full Width (ft) 11	Sediment Accomodation Space Trend incising
Channel Bank Full Mean Depth (ft) 0.5	Levees none
Channel Floodprone Area Width (ft) 12	Channel Hardscaping none
Channel Entrenchment Ratio 1.1	Channel Straightening
Channel Energy Slope 0-2%	Vegetation Clearing
Channel Sinuosity >1.0-1.5	Dredging/Aggregate Extraction
Channel Bed Materials rock rip-rap	Fill/Debris Placement
Channel Median Bed Material Size clay/silt	Plant Series California Walnut Series
Bank Height (ft) 1.5	Plant Series Mixed Sage Series
Bank Angle 40°	Plant Series N/A
Bank Materials natural	Plant Sereis N/A
Notes N/A	

Site # 16 Site Location Arroyo Simi at end of Spring R	Date 18-Mar-99
Latitude 34° 16.462' N Longitude 118° 52.907' W Cre	w Names Mark Rains & Cher Wellonen
Drainage Area (sq mi) 109	Coarse, Noncohesive Bank Strata N/A
Strahler Stream Order (1:24,000) 4	Bank Vegetation, Tree none
River Miles to Mugu Lagoon 19.8	Bank Vegetation, Shrub none
Adjacent Land Uses high-density urban	Bank Vegetation, Herb none
Drainage Land Uses natural/range, orchard, low- & high-density urban	Flow Duration perennial
	Tidal Influence none
Landscape Landform alluvial plain	Base Flow Alterations, Magnitude higher
Landscape Position drainageway	Base Flow Alterations, Duration longer
Landscape Featur drainageway	Peak Flow Alteration, Magnitude higher
Local Topography level (rugged)	Peak Flow Alteration, Timing earlier
Landscape Confine	Peak Flow Alterations, Duration       shorter
Channel Bank Full Width (ft) 80	Sediment Accomodation Space Trend filling
Channel Bank Full Mean Depth (ft) 4.0	Levees not setback
Channel Floodprone Area Width (ft) 104	Channel Hardscaping concrete banks
Channel Entrenchment Ratio 1.3	Channel Straightening 🔽
Channel Energy Slope 0-2%	Vegetation Clearing
Channel Sinuosity 1.0	Dredging/Aggregate Extraction
Channel Bed Materials natural	Fill/Debris Placement
Channel Median Bed Material Size sand	Plant Series Riparian-Ruderal Scrub Series
Bank Height (ft) 12	Plant Series Bulrush Series
Bank Angle24°	Plant Series Mexican Elderberry Series
Bank Materials concrete	Plant Sereis N/A
Notes No indicators present for accurate BF Mean Depth.	

Site # 17 Site Location Arroyo Simi on Los Angeles Av	venue, near Oak County Park Date 18-Mar-99
Latitude 34° 17.243' N Longitude 118° 49.644' W Cr	ew Names Mark Rains & Cher Wellonen
Drainage Area (sq mi) 81	Coarse, Noncohesive Bank Strata
Strahler Stream Order (1:24,000) 4	Bank Vegetation, Tree none
River Miles to Mugu Lagoon 23.8	Bank Vegetation, Shrub abundant
Adjacent Land Uses natural/range	Bank Vegetation, Herb abundant
Drainage Land Uses natural/range, orchard, low- & high-	Flow Duration perennial
density urban	Tidal Influence none
Landscape Landform alluvial plain	Base Flow Alterations, Magnitude higher
Landscape Position drainageway	Base Flow Alterations, Duration longer
Landscape Featur drainageway	Peak Flow Alteration, Magnitude higher
Local Topography level (rugged)	Peak Flow Alteration, Timing       earlier
Landscape Confine	Peak Flow Alterations, Duration       shorter
Channel Bank Full Width (ft) 87	Sediment Accomodation Space Trend filling
Channel Bank Full Mean Depth (ft) 2.5	Levees none
Channel Floodprone Area Width (ft) 560	Channel Hardscaping none
Channel Entrenchment Ratio 6.4	Channel Straightening
Channel Energy Slope 0-2%	Vegetation Clearing
Channel Sinuosity >1.0-1.5	Dredging/Aggregate Extraction
Channel Bed Materials natural	Fill/Debris Placement
Channel Median Bed Material Size sand & gravel	Plant Series Mixed Willow Series (Woodland)
Bank Height (ft) 4	Plant Series Giant Reed Series
Bank Angle 85°	Plant Series Mixed Willow Series (Scrub)
Bank Materials natural	Plant Sereis N/A
Notes N/A	

#### CALLEGUAS CREEK WATERSHED ADVANCED IDENTIFICATION GEOMORPHOLOGY DATA SHEET

Site # 18 Site Location Arroyo Simi near Simi Recycli	ng Center Date 18-Mar-99
Latitude 34° 16.964' N Longitude 118° 48.429' W Cr	ew Names Mark Rains & Cher Wellonen
Drainage Area (sq mi) 71	Coarse, Noncohesive Bank Strata
Strahler Stream Order (1:24,000) 4	Bank Vegetation, Tree abundant
River Miles to Mugu Lagoon 25.4	Bank Vegetation, Shrub abundant
Adjacent Land Uses natural/range, high-density urban	Bank Vegetation, Herb abundant
Drainage Land Uses natural/range, orchard, low- & high-density urban	Flow Duration perennial
iow- & ingli-delisity urban	Tidal Influence none
Landscape Landform alluvial plain	Base Flow Alterations, Magnitude higher
Landscape Position drainageway	Base Flow Alterations, Duration longer
Landscape Featur drainageway	Peak Flow Alteration, Magnitude higher
Local Topography level (rugged)	Peak Flow Alteration, Timing earlier
Landscape Confine	Peak Flow Alterations, Duration shorter
Channel Bank Full Width (ft) 96	Sediment Accomodation Space Trend filling
Channel Bank Full Mean Depth (ft) 2.5	Levees none
Channel Floodprone Area Width (ft) 103	Channel Hardscaping none
Channel Entrenchment Ratio 1.1	Channel Straightening
Channel Energy Slope 0-2%	Vegetation Clearing
Channel Sinuosity >1.0-1.5	Dredging/Aggregate Extraction
Channel Bed Materials natural	Fill/Debris Placement 🔽
Channel Median Bed Material Size sand & gravel	Plant Series Mixed Willow Series (Scrub)
Bank Height (ft) 2.5	Plant Series Mixed Willow Series (Woodland)
Bank Angle 8°	Plant Series Arroyo Willow Series (upland)
Bank Materials natural	Plant Sereis N/A
Notes Chi dom 0.5 min gelloodnrong AW norrowed by fill	an allow tractical restanction site

Notes Ck. dam ~0.5 mi u-g;Floodprone AW narrowed by fill; excellent potential restoration site.

#### CALLEGUAS CREEK WATERSHED ADVANCED IDENTIFICATION GEOMORPHOLOGY DATA SHEET

Site # 19 Site Location Arroyo Simi at Madera Road	crossing, down-gradient Date 18-Mar-99
Latitude 34° 16.675' N Longitude 118° 47.867' W C	rew Names Mark Rains & Cher Wellonen
Drainage Area (sq mi) 64	Coarse, Noncohesive Bank Strata N/A
Strahler Stream Order (1:24,000) 4	Bank Vegetation, Tree none
River Miles to Mugu Lagoon 26.2	Bank Vegetation, Shrub none
Adjacent Land Uses high-density urban	Bank Vegetation, Herb none
Drainage Land Uses natural/range, orchard, low- & high-	Flow Duration perennial
density urban	Tidal Influence none
Landscape Landform alluvial plain	Base Flow Alterations, Magnitude higher
Landscape Position drainageway	Base Flow Alterations, Duration longer
Landscape Featur drainageway	Peak Flow Alteration, Magnitude higher
Local Topography level(rugged)	Peak Flow Alteration, Timing earlier
Landscape Confine	Peak Flow Alterations, Duration       shorter
Channel Bank Full Width (ft) 105	Sediment Accomodation Space Trend unchanging
Channel Bank Full Mean Depth (ft) 1.5	Levees not setback
Channel Floodprone Area Width (ft) 115	Channel Hardscaping rk riprap&concrete bed/bank
Channel Entrenchment Ratio 1.1	Channel Straightening
Channel Energy Slope 0-2%	Vegetation Clearing
Channel Sinuosity 1.0	Dredging/Aggregate Extraction
Channel Bed Materials natural-w/rip-rap, concre	Fill/Debris Placement
Channel Median Bed Material Size sand with boulders	Plant Series N/A-no vegetation present
Bank Height (ft) 12	Plant Series N/A
Bank Angle 24°	Plant Series N/A
Bank Materials rock rip-rap (concrete)	Plant Sereis N/A

**Notes** Check dam about 1000' d-g; small floodplain features; gage station at bridge.

#### CALLEGUAS CREEK WATERSHED ADVANCED IDENTIFICATION GEOMORPHOLOGY DATA SHEET

Site # 20 Site Location Sycamore Canyon at Wood	RanchDate19-Mar-99
Latitude 34° 13.646' N Longitude 118° 48.298' W	Crew Names Mark Rains & Cher Wellonen
Drainage Area (sq mi) 0.09	Coarse, Noncohesive Bank Strata
Strahler Stream Order (1:24,000)	Bank Vegetation, Tree abundant
River Miles to Mugu Lagoon 30.4	Bank Vegetation, Shrub abundant
Adjacent Land Uses natural/range	Bank Vegetation, Herb abundant
Drainage Land Uses natural/range	Flow Duration ephemeral
	Tidal Influence none
Landscape Landform hill	Base Flow Alterations, Magnitude unchanged
Landscape Position back slope	Base Flow Alterations, Duration unchanged
Landscape Featur drainageway	Peak Flow Alteration, Magnitude unchanged
Local Topography rugged	Peak Flow Alteration, Timing unchanged
Landscape Confine 🔽	Peak Flow Alterations, Duration unchanged
Channel Bank Full Width (ft) 6.5	Sediment Accomodation Space Trend incising
Channel Bank Full Mean Depth (ft) 1.2	Levees none
Channel Floodprone Area Width (ft) 8.5	Channel Hardscaping none
Channel Entrenchment Ratio 1.3	Channel Straightening
Channel Energy Slope >2-10%	Vegetation Clearing
Channel Sinuosity >1.0-1.5	Dredging/Aggregate Extraction
Channel Bed Materials natural	Fill/Debris Placement
Channel Median Bed Material Size cobble (clay/silt, sand,	Plant Series California Sycamore Series
Bank Height (ft)1.7(cray/sin, sand, gravel, boulder)	Plant Series California Annual Grassland Series
Bank Angle 52°	Plant Series Mixed Sage Series
Bank Materials natural	Plant Sereis N/A

Notes Enters culvert about 300' d-g where extensive new suburban development exists.

#### CALLEGUAS CREEK WATERSHED ADVANCED IDENTIFICATION GEOMORPHOLOGY DATA SHEET

Site # 21 Site Location Meier Canyon at end of Tap	o Canyon Road Date 19-Mar-99
Latitude 34° 15.757' N Longitude 118° 43.384' W	Crew Names Mark Rains & Cher Wellonen
Drainage Area (sq mi) 5.2	Coarse, Noncohesive Bank Strata L-1, R-3
Strahler Stream Order (1:24,000) 3	Bank Vegetation, Tree abundant
<b>River Miles to Mugu Lagoon</b> 31.4	Bank Vegetation, Shrub none
Adjacent Land Uses natural/range	Bank Vegetation, Herb abundant
Drainage Land Uses natural/range, low-density urban	Flow Duration ephemeral
	Tidal Influence none
Landscape Landform hill	Base Flow Alterations, Magnitude unchanged
Landscape Position foot slope	Base Flow Alterations, Duration unchanged
Landscape Featur drainageway	Peak Flow Alteration, Magnitude unchanged
Local Topography rugged	Peak Flow Alteration, Timing unchanged
Landscape Confine	Peak Flow Alterations, Duration unchanged
<b>Channel Bank Full Width (ft)</b> 16 + 25	Sediment Accomodation Space Trend incising
Channel Bank Full Mean Depth (ft) 2.3	Levees none
Channel Floodprone Area Width (ft) 99	Channel Hardscaping none
Channel Entrenchment Ratio 2.4	Channel Straightening
Channel Energy Slope 0-2% (>2-10%)	Vegetation Clearing 🔽
Channel Sinuosity >1.0-1.5	Dredging/Aggregate Extraction
Channel Bed Materials natural	Fill/Debris Placement
Channel Median Bed Material Size cobble	Plant Series Eucalyptus Series
Bank Height (ft) L-1.5, R-5	Plant Series California Annula Grassland Series
Bank Angle L-90°, R-48°	Plant Series N/A
Bank Materials L-natural, R-natural	Plant Sereis N/A

Notes BF Mean Depth split by mid-channel barranca; excellent potential restor. site; veg. not actively cleared.

Site # 22 Site Location Tapo Canyon at Tapo Canyon	ParkDate19-Mar-99
Latitude 34° 19.316' N Longitude 118° 42.550' W Cr	ew Names Mark Rains & Cher Wellonen
Drainage Area (sq mi) 3.8	Coarse, Noncohesive Bank Strata 0
Strahler Stream Order (1:24,000) 3	Bank Vegetation, Tree none
<b>River Miles to Mugu Lagoon</b> 34.6	Bank Vegetation, Shrub abundant
Adjacent Land Uses natural/range, low-density urban	Bank Vegetation, Herb abundant
Drainage Land Uses natural/range, mining, low-density	Flow Duration seasonal
urban	Tidal Influence none
Landscape Landform hill	Base Flow Alterations, Magnitude unchanged
Landscape Position foot slope	Base Flow Alterations, Duration unchanged
Landscape Featur drainageway	Peak Flow Alteration, Magnitude unchanged
Local Topography rugged	Peak Flow Alteration, Timing unchanged
Landscape Confine	Peak Flow Alterations, Duration unchanged
Channel Bank Full Width (ft) 12	Sediment Accomodation Space Trend incising
Channel Bank Full Mean Depth (ft) 1.7	Levees none
Channel Floodprone Area Width (ft) 25	Channel Hardscaping none
Channel Entrenchment Ratio 2.1	Channel Straightening
Channel Energy Slope 0-2%	Vegetation Clearing
Channel Sinuosity >1.0-1.5	Dredging/Aggregate Extraction
Channel Bed Materials natural	Fill/Debris Placement
Channel Median Bed Material Size sand	Plant Series Mulefat Series
Bank Height (ft) 10	Plant Series Red Willow Series
Bank Angle 30°	Plant Series N/A
Bank Materials natural	Plant Sereis N/A
<b>Notes</b> Alterations likely are moderate; possible restoration site	9.

Site # 23 Site Location Tapo Canyon at Bennett Road	crossing, down-gradient Date 19-Mar-99
Latitude 34° 18.990' N Longitude 118° 43.096' W Cre	ew Names Mark Rains & Cher Wellonen
Drainage Area (sq mi) 4.2	Coarse, Noncohesive Bank Strata
Strahler Stream Order (1:24,000) 3	Bank Vegetation, Tree abundant
River Miles to Mugu Lagoon 34	Bank Vegetation, Shrub abundant
Adjacent Land Uses natural/range	Bank Vegetation, Herb abundant
Drainage Land Uses natural/range, mining, low-density	Flow Duration seasonal
urban	Tidal Influence none
Landscape Landform hill	Base Flow Alterations, Magnitude unchanged
Landscape Position foot slope	Base Flow Alterations, Duration unchanged
Landscape Featur drainageway	Peak Flow Alteration, Magnitude unchanged
Local Topography rugged	Peak Flow Alteration, Timing unchanged
Landscape Confine	Peak Flow Alterations, Duration unchanged
Channel Bank Full Width (ft) 21	Sediment Accomodation Space Trend incising
Channel Bank Full Mean Depth (ft) 0.7	Levees none
Channel Floodprone Area Width (ft) 51	Channel Hardscaping none
Channel Entrenchment Ratio 2.4	Channel Straightening
Channel Energy Slope 0-2%	Vegetation Clearing
Channel Sinuosity >1.0-1.5	Dredging/Aggregate Extraction
Channel Bed Materials natural	Fill/Debris Placement
Channel Median Bed Material Size sand & gravel	Plant Series Red Willow Series
Bank Height (ft) 50	Plant Series Castor Bean Series
Bank Angle 23°	Plant Series N/A
Bank Materials natural	Plant Sereis N/A
Notes Alterations likely are moderate.	

#### CALLEGUAS CREEK WATERSHED ADVANCED IDENTIFICATION GEOMORPHOLOGY DATA SHEET

Site # 24 Site Location Calleguas Creek at Adolfo Ro	oad bridge cross, down-gradientDate30-Mar-99
Latitude 34° 13.347' N Longitude 119° 01.042' W C	Crew Names Mark Rains & Cher Wellonen
Drainage Area (sq mi) 160	Coarse, Noncohesive Bank Strata N/A
Strahler Stream Order (1:24,000) 4	Bank Vegetation, Tree none
River Miles to Mugu Lagoon 9.4	Bank Vegetation, Shrub none
Adjacent Land Uses high-density urban	Bank Vegetation, Herb none
Drainage Land Uses natural/range, orchard, low- & high-	Flow Duration ephemeral
density urban	Tidal Influence none
Landscape Landform delta plain	Base Flow Alterations, Magnitude unchanged
Landscape Position drainageway	Base Flow Alterations, Duration shorter
Landscape Featur drainageway	Peak Flow Alteration, Magnitude higher
Local Topography level	Peak Flow Alteration, Timing earlier
Landscape Confine	Peak Flow Alterations, Duration       shorter
Channel Bank Full Width (ft) 147	Sediment Accomodation Space Trend filling
Channel Bank Full Mean Depth (ft) 1.5	Levees not setback
Channel Floodprone Area Width (ft) 156	Channel Hardscaping rock rip-rap banks
Channel Entrenchment Ratio 1.1	Channel Straightening 🔽
Channel Energy Slope 0-2%	Vegetation Clearing
Channel Sinuosity >1.0-1.5	Dredging/Aggregate Extraction
Channel Bed Materials natural	Fill/Debris Placement
Channel Median Bed Material Size sand	Plant Series Riparian-Ruderal Scrub Series
Bank Height (ft) 20	Plant Series Mulefat-Giant Reed Series
Bank Angle 21°	Plant Series N/A
Bank Materials rock rip-rap	Plant Sereis N/A

**Notes** BF alterations perenn. above/below, ephem. onsite-disconnected from local hydrology by urbanization.

#### CALLEGUAS CREEK WATERSHED ADVANCED IDENTIFICATION GEOMORPHOLOGY DATA SHEET

Site # 25 Site Location Calleguas Creek at Los Posas H	Road, down-gradient Date 30-Mar-99
Latitude 34° 14.623' N Longitude 119° 00.423' W Cro	w Names Mark Rains & Cher Wellonen
Drainage Area (sq mi) 158	Coarse, Noncohesive Bank Strata
Strahler Stream Order (1:24,000) 4	Bank Vegetation, Tree trace
River Miles to Mugu Lagoon 11	Bank Vegetation, Shrub abundant
Adjacent Land Uses natural/range, low-density urban	Bank Vegetation, Herb abundant
Drainage Land Uses natural/range, orchard, low- & high-density urban	Flow Duration ephemeral
	Tidal Influence none
Landscape Landform delta plain	Base Flow Alterations, Magnitude unchanged
Landscape Position drainageway	Base Flow Alterations, Duration shorter
Landscape Featur drainageway	Peak Flow Alteration, Magnitude higher
Local Topography level (gently rolling)	Peak Flow Alteration, Timing       earlier
Landscape Confine	Peak Flow Alterations, Duration       shorter
Channel Bank Full Width (ft) 189	Sediment Accomodation Space Trend filling
Channel Bank Full Mean Depth (ft) 1	Levees setback
Channel Floodprone Area Width (ft) 336	Channel Hardscaping none
Channel Entrenchment Ratio 1.8	Channel Straightening
Channel Energy Slope 0-2%	Vegetation Clearing
Channel Sinuosity >1.0-1.5	Dredging/Aggregate Extraction
Channel Bed Materials natural	Fill/Debris Placement
Channel Median Bed Material Size sand	Plant Series Mixed Willow Series (Woodland)
Bank Height (ft)	Plant Series Mulefat-Ruderal Series
Bank Angle 25°	Plant Series Mulefat-Giant Reed Series
Bank Materials natural	Plant Sereis N/A

**Notes** BF alterations: perennial above & below, but ephemeral here-not disconnected from local hydrology.

Site # 26Site LocationUnnamed tributary below Long RanchDate30-Mar-99	
Latitude 34° 12.666' N Longitude 118° 49.895' W C	Crew Names Mark Rains & Cher Wellonen
Drainage Area (sq mi) 3.16	Coarse, Noncohesive Bank Strata 0
Strahler Stream Order (1:24,000) 3	Bank Vegetation, Tree abundant
River Miles to Mugu Lagoon 24.8	Bank Vegetation, Shrub abundant
Adjacent Land Uses natural/range	Bank Vegetation, Herb abundant
Drainage Land Uses natural/range, low-density urban	Flow Duration seasonal
urban	Tidal Influence none
Landscape Landform hill	Base Flow Alterations, Magnitude unchanged
Landscape Position foot slope	Base Flow Alterations, Duration unchanged
Landscape Featur drainageway	Peak Flow Alteration, Magnitude higher
Local Topography rugged	Peak Flow Alteration, Timing earlier
Landscape Confine 🗹	Peak Flow Alterations, Duration shorter
Channel Bank Full Width (ft) 20	Sediment Accomodation Space Trend filling
Channel Bank Full Mean Depth (ft) 2.0	Levees none
Channel Floodprone Area Width (ft) 26	Channel Hardscaping none
Channel Entrenchment Ratio 1.3	Channel Straightening
Channel Energy Slope 0-2%	Vegetation Clearing
Channel Sinuosity >1.0-1.5	Dredging/Aggregate Extraction
Channel Bed Materials natural	Fill/Debris Placement
Channel Median Bed Material Size sand, clay/silt, gravel, cobble	Plant Series Coast Live Oak Series
Bank Height (ft) 6	Plant Series Arroyo Willow Series
Bank Angle 90°	Plant Series N/A
Bank Materials natural	Plant Sereis N/A
Notes N/A	

Site # 27 Site Location Unnamed tributary across Hwy	y 101 from T.O. Civic Center Date 30-Mar-99
Latitude 34° 10.265' N Longitude 118° 50.812' W Cro	w Names Mark Rains & Cher Wellonen
Drainage Area (sq mi) 0.18	Coarse, Noncohesive Bank Strata
Strahler Stream Order (1:24,000)	Bank Vegetation, Tree trace
River Miles to Mugu Lagoon 23.4	Bank Vegetation, Shrub abundant
Adjacent Land Uses natural/range	Bank Vegetation, Herb abundant
Drainage Land Uses natural/range	Flow Duration ephemeral
	Tidal Influence none
Landscape Landform hill	Base Flow Alterations, Magnitude unchanged
Landscape Position back slope	Base Flow Alterations, Duration unchanged
Landscape Featur drainageway	Peak Flow Alteration, Magnitude unchanged
Local Topography rugged	Peak Flow Alteration, Timing unchanged
Landscape Confine 🔽	Peak Flow Alterations, Duration unchanged
Channel Bank Full Width (ft) 2.5	Sediment Accomodation Space Trend incising
Channel Bank Full Mean Depth (ft) 0.5	Levees none
Channel Floodprone Area Width (ft) 4	Channel Hardscaping none
Channel Entrenchment Ratio 1.6	Channel Straightening
Channel Energy Slope >10%	Vegetation Clearing
Channel Sinuosity >1.0-1.5	Dredging/Aggregate Extraction
Channel Bed Materials natural	Fill/Debris Placement
Channel Median Bed Material Size sand & gravel	Plant Series Mixed Sage Series
Bank Height (ft) 0.5	Plant Series Miners Lettuce Series
Bank Angle 15°	Plant Series N/A
Bank Materials natural	Plant Sereis N/A
Notes Slope wetlands abundant; patches of moist soils domina	ated by Miners Lettuce.

Site # 28 Site Location Unnamed above Los Robles C	Country Club, south of bridge Date 30-Mar-99
Latitude 34° 10.630' N Longitude 118° 53.101' W C	rew Names Mark Rains & Cher Wellonen
Drainage Area (sq mi) 0.84	Coarse, Noncohesive Bank Strata
Strahler Stream Order (1:24,000) 2	Bank Vegetation, Tree abundant
River Miles to Mugu Lagoon 16.4	Bank Vegetation, Shrub abundant
Adjacent Land Uses natural/range	Bank Vegetation, Herb abundant
Drainage Land Uses natural/range	Flow Duration ephemeral
	Tidal Influence none
Landscape Landform hill	Base Flow Alterations, Magnitude unchanged
Landscape Position toe slope	Base Flow Alterations, Duration unchanged
Landscape Featur drainageway	Peak Flow Alteration, Magnitude unchanged
Local Topography rugged	Peak Flow Alteration, Timing unchanged
Landscape Confine 🔽	Peak Flow Alterations, Duration unchanged
Channel Bank Full Width (ft) 10	Sediment Accomodation Space Trend incising
Channel Bank Full Mean Depth (ft) 2	Levees none
Channel Floodprone Area Width (ft) 42	Channel Hardscaping none
Channel Entrenchment Ratio 4.2	Channel Straightening
Channel Energy Slope >2-10%	Vegetation Clearing
Channel Sinuosity >1.0-1.5	Dredging/Aggregate Extraction
Channel Bed Materials natural	Fill/Debris Placement
Channel Median Bed Material Size gravel & cobble	Plant Series Coast Live Oak Series
Bank Height (ft) 2	Plant Series Mixed Sage Series
Bank Angle 30°	Plant Series N/A
Bank Materials natural	Plant Sereis N/A
Notes N/A	

#### CALLEGUAS CREEK WATERSHED ADVANCED IDENTIFICATION GEOMORPHOLOGY DATA SHEET

Site # 29 Site Location Unnamed on Los Robles Co	untry Club, north of bridge Date 30-Mar-99
Latitude 34° 10.695' N Longitude 118° 53.063' W	Crew Names Mark Rains & Cher Wellonen
Drainage Area (sq mi) 0.84	Coarse, Noncohesive Bank Strata N/A
Strahler Stream Order (1:24,000)	Bank Vegetation, Tree N/A
River Miles to Mugu Lagoon 16.4	Bank Vegetation, Shrub N/A
Adjacent Land Uses golf corse	Bank Vegetation, Herb N/A
Drainage Land Uses natural/range	Flow Duration N/A
	Tidal Influence N/A
Landscape Landform hill	Base Flow Alterations, Magnitude N/A
Landscape Position toe slope	Base Flow Alterations, Duration N/A
Landscape Featur drainageway	Peak Flow Alteration, Magnitude N/A
Local Topography gently rolling	Peak Flow Alteration, Timing N/A
Landscape Confine 🔽	Peak Flow Alterations, Duration N/A
Channel Bank Full Width (ft) N/A	Sediment Accomodation Space Trend N/A
Channel Bank Full Mean Depth (ft) N/A	Levees N/A
Channel Floodprone Area Width (ft) N/A	Channel Hardscaping N/A
Channel Entrenchment Ratio N/A	Channel Straightening
Channel Energy Slope N/A	Vegetation Clearing
Channel Sinuosity N/A	Dredging/Aggregate Extraction
Channel Bed Materials N/A	Fill/Debris Placement
Channel Median Bed Material Size N/A	Plant Series       Coast Live Oak Series (golf course)
Bank Height (ft) N/A	Plant Series N/A
Bank Angle N/A	Plant Series N/A
Bank Materials N/A	Plant Sereis N/A

Notes Site remote; streams converted into poorly defined swale (for extreme high flows) in golf course.

Site # 30 Site Location Arroyo Santa Rosa above Arro	yo Conejo Golf Course Date 30-Mar-99
Latitude 34° 13.869' N Longitude 118° 55.871' W Cre	ew Names Mark Rains & Cher Wellonen
Drainage Area (sq mi) 12.5	Coarse, Noncohesive Bank Strata
Strahler Stream Order (1:24,000) 3	Bank Vegetation, Tree abundant
<b>River Miles to Mugu Lagoon</b> 10.4	Bank Vegetation, Shrub abundant
Adjacent Land Uses fallow row crop, orchard	Bank Vegetation, Herb abundant
Drainage Land Uses natural/range, rowcrop, orchard, low-density	Flow Duration seasonal
urban	Tidal Influence none
Landscape Landform alluvial plain	Base Flow Alterations, Magnitude higher
Landscape Position drainageway	Base Flow Alterations, Duration longer
Landscape Featur drainageway	Peak Flow Alteration, Magnitude higher
Local Topography level (rugged)	Peak Flow Alteration, Timing       earlier
Landscape Confine	Peak Flow Alterations, Duration       shorter
Channel Bank Full Width (ft) 18	Sediment Accomodation Space Trend unchanging
Channel Bank Full Mean Depth (ft) 2	Levees none
Channel Floodprone Area Width (ft) 24	Channel Hardscaping none
Channel Entrenchment Ratio 1.3	Channel Straightening
Channel Energy Slope 0-2%	Vegetation Clearing
Channel Sinuosity >1.0-1.5	Dredging/Aggregate Extraction
Channel Bed Materials natural	Fill/Debris Placement 🔽
Channel Median Bed Material Size sand & gravel	Plant Series Arroyo Willow Series
Bank Height (ft) 20	Plant Series N/A
Bank Angle 23°	Plant Series N/A
Bank Materials natural	Plant Sereis N/A
Notes N/A	

#### CALLEGUAS CREEK WATERSHED ADVANCED IDENTIFICATION GEOMORPHOLOGY DATA SHEET

Site # 31 Site Location Conejo Creek at Fitzgerald I	RanchDate31-Mar-99
Latitude 34° 13.986' N Longitude 118° 56.637' W	Crew Names Mark Rains & David Magney
Drainage Area (sq mi) 59	Coarse, Noncohesive Bank Strata 2
Strahler Stream Order (1:24,000) 4	Bank Vegetation, Tree abundant
<b>River Miles to Mugu Lagoon</b> 9.4	Bank Vegetation, Shrub abundant
Adjacent Land Uses orchard	Bank Vegetation, Herb abundant
Drainage Land Uses natural/range, rowcrop, orchard, low- & high-	Flow Duration perennial
density urban	Tidal Influence none
Landscape Landform alluvial plain	Base Flow Alterations, Magnitude higher
Landscape Position drainageway	Base Flow Alterations, Duration longer
Landscape Featur drainageway	Peak Flow Alteration, Magnitude higher
Local Topography level (rugged)	Peak Flow Alteration, Timing earlier
Landscape Confine	Peak Flow Alterations, Duration       shorter
Channel Bank Full Width (ft) 25	Sediment Accomodation Space Trend incising
Channel Bank Full Mean Depth (ft) 3.5	Levees none
Channel Floodprone Area Width (ft) 60	Channel Hardscaping none
Channel Entrenchment Ratio 2.4	Channel Straightening
Channel Energy Slope 0-2%	Vegetation Clearing
Channel Sinuosity >1.0-1.5	Dredging/Aggregate Extraction
Channel Bed Materials natural	Fill/Debris Placement 🔽
Channel Median Bed Material Size gravel, sand, & cobble	Plant Series N/A
Bank Height (ft) 20	Plant Series Arroyo Willow Series
Bank Angle 41°-local 90°	Plant Series Poison Hemlock Series
Bank Materials natural	Plant Sereis N/A
N. ( I amon quantities of failed houle stabilization debais in	areals had

Notes Large quantities of failed bank stabilization debris in creek bed.

Site # 32   Site Location   Calleguas Creek at confluence	with Revolon Slough Date 14-Jun-99
Latitude 34° 07.680' N Longitude 119° 04.539' W Cro	ew Names Mark Rains & Cher Wellonen
Drainage Area (sq mi) 263	Coarse, Noncohesive Bank Strata
Strahler Stream Order (1:24,000) 5	Bank Vegetation, Tree none
River Miles to Mugu Lagoon 1.2	Bank Vegetation, Shrub none
Adjacent Land Uses row crop	Bank Vegetation, Herb abundant
Drainage Land Uses natural/range, mining, rowcrop, orchard, low- &	Flow Duration perennial
high-density urban	Tidal Influence       freshwater tidal
Landscape Landform delta plain	Base Flow Alterations, Magnitude higher
Landscape Position drainageway	Base Flow Alterations, Duration longer
Landscape Featur drainageway	Peak Flow Alteration, Magnitude higher
Local Topography level	Peak Flow Alteration, Timing       earlier
Landscape Confine	Peak Flow Alterations, Duration       shorter
Channel Bank Full Width (ft) 126	Sediment Accomodation Space Trend filling
Channel Bank Full Mean Depth (ft) 1.5	Levees setback
Channel Floodprone Area Width (ft) 390	Channel Hardscaping rock rip-rap banks
Channel Entrenchment Ratio 3.1	Channel Straightening 🔽
Channel Energy Slope 0-2%	Vegetation Clearing
Channel Sinuosity 1.0	Dredging/Aggregate Extraction
Channel Bed Materials natural	Fill/Debris Placement
Channel Median Bed Material Size sand	Plant Series Riparian Scrub Series
Bank Height (ft) 2	Plant Series N/A
Bank Angle 9°	Plant Series N/A
Bank Materials natural	Plant Sereis N/A
Notes N/A	

Site # 33   Site Location   Revolon Slough at confluence v	vith Calleguas Creek Date 14-Jun-99
Latitude 34° 07.711' N Longitude 119° 04.738' W Cre	ew Names Mark Rains & Cher Wellonen
Drainage Area (sq mi) 60	Coarse, Noncohesive Bank Strata
Strahler Stream Order (1:24,000) 4	Bank Vegetation, Tree none
River Miles to Mugu Lagoon 1.2	Bank Vegetation, Shrub trace
Adjacent Land Uses row crop	Bank Vegetation, Herb abundant
Drainage Land Uses natural/range, mining, rowcrop, orchard, low- &	Flow Duration perennial
high-density urban	Tidal Influence       freshwater tidal
Landscape Landform delta plain	Base Flow Alterations, Magnitude higher
Landscape Position drainageway	Base Flow Alterations, Duration longer
Landscape Featur drainageway	Peak Flow Alteration, Magnitude higher
Local Topography level	Peak Flow Alteration, Timing earlier
Landscape Confine	Peak Flow Alterations, Duration       shorter
Channel Bank Full Width (ft) 70	Sediment Accomodation Space Trend filling
Channel Bank Full Mean Depth (ft) 6	Levees not setback (slight setback on R)
Channel Floodprone Area Width (ft) 157	Channel Hardscaping rock rip-rap banks
Channel Entrenchment Ratio 2.2	Channel Straightening 🔽
Channel Energy Slope 0-2%	Vegetation Clearing
Channel Sinuosity 1.0	Dredging/Aggregate Extraction
Channel Bed Materials natural	Fill/Debris Placement
Channel Median Bed Material Size sand	Plant Series Bulrush Series
Bank Height (ft) R-6, L-15	Plant Series Giant Reed-Big Saltbush Series
Bank Angle R-21°, L-21°	Plant Series Riparian-Ruderal Scrub Series
Bank Materials R-natural, L-rock rip-rap	Plant Sereis N/A
Notes N/A	

#### CALLEGUAS CREEK WATERSHED ADVANCED IDENTIFICATION GEOMORPHOLOGY DATA SHEET

Site # 34 Site Location Calleguas Creek at Camarillo	Regional ParkDate14-Jun-99
Latitude 34° 11.07' N Longitude 119° 01.42' W C	rew Names Mark Rains & Cher Wellonen
Drainage Area (sq mi) 200	Coarse, Noncohesive Bank Strata R-0, L-1
Strahler Stream Order (1:24,000) 5	Bank Vegetation, Tree patchy
<b>River Miles to Mugu Lagoon</b> 5.6	Bank Vegetation, Shrub patchy
Adjacent Land Uses natural/range, row crop	Bank Vegetation, Herb abundant
Drainage Land Uses natural/range, mining,	Flow Duration perennial
rowcrop, orchard, low- & high-density urban	Tidal Influence none
Landscape Landform delta plain	Base Flow Alterations, Magnitude higher
Landscape Position drainageway	Base Flow Alterations, Duration longer
Landscape Featur drainageway	Peak Flow Alteration, Magnitude higher
Local Topography level	Peak Flow Alteration, Timing earlier
Landscape Confine	Peak Flow Alterations, Duration shorter
Channel Bank Full Width (ft) 108	Sediment Accomodation Space Trend filling
Channel Bank Full Mean Depth (ft) 2.0	Levees not setback (slight setback on R)
Channel Floodprone Area Width (ft) 159	Channel Hardscaping rock rip-rap banks
Channel Entrenchment Ratio 1.5	Channel Straightening 🔽
Channel Energy Slope 0-2%	Vegetation Clearing
Channel Sinuosity >1.0-1.5	Dredging/Aggregate Extraction
Channel Bed Materials natuaral	Fill/Debris Placement
Channel Median Bed Material Size sand	Plant Series Riparian-Ruderal Scrub Series
Bank Height (ft) R-15, L-2	Plant Series Giant Reed-Arroyo Willow Series
Bank Angle R-20°, L-5°	Plant Series Arroyo Willow Series
Bank Materials R-rock rip-rap, L-natural	Plant Sereis Southern Cattail-Arroyo Willow Ser.

Notes Floodplain Forest (Mixed Willow Series) disconnected from channel by levee.

#### CALLEGUAS CREEK WATERSHED ADVANCED IDENTIFICATION GEOMORPHOLOGY DATA SHEET

Site # 35 Site Location Conejo Creek at Pancho Road;	down-gradient Date 14-Jun-99
Latitude 34° 11.48' N Longitude 119° 00.29' W Cr	ew Names Mark Rains & Cher Wellonen
Drainage Area (sq mi) 66	Coarse, Noncohesive Bank Strata
Strahler Stream Order (1:24,000) 4	Bank Vegetation, Tree trace
<b>River Miles to Mugu Lagoon</b> 8.1	Bank Vegetation, Shrub trace
Adjacent Land Uses natural/range, row crop	Bank Vegetation, Herb abundant
Drainage Land Uses natural/range, mining, rowcrop, orchard, low- &	Flow Duration perennial
high-density urban	Tidal Influence none
Landscape Landform alluvial plain	Base Flow Alterations, Magnitude higher
Landscape Position drainageway	Base Flow Alterations, Duration longer
Landscape Featur drainageway	Peak Flow Alteration, Magnitude higher
Local Topography level	Peak Flow Alteration, Timing earlier
Landscape Confine	Peak Flow Alterations, Duration       shorter
Channel Bank Full Width (ft) 39	Sediment Accomodation Space Trend filling
Channel Bank Full Mean Depth (ft) 2	Levees setback
Channel Floodprone Area Width (ft) 105	Channel Hardscaping none
Channel Entrenchment Ratio 2.7	Channel Straightening 🔽
Channel Energy Slope 0-2%	Vegetation Clearing 🔽
Channel Sinuosity >1.0-1.5	Dredging/Aggregate Extraction
Channel Bed Materials natural	Fill/Debris Placement
Channel Median Bed Material Size sand	Plant Series Arroyo Willow Series
Bank Height (ft) R-15, L-2	Plant Series Cattail Series
Bank Angle R-30°, L-35°	Plant Series N/A
Bank Materials natural	Plant Sereis N/A

Notes Potential in- and off-channel restoration site w/in confines of setback levees.

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#### CALLEGUAS CREEK WATERSHED ADVANCED IDENTIFICATION GEOMORPHOLOGY DATA SHEET

Site # 36 Site Location Arroyo Conejo in Long Cany	on Date 14-Jun-99
Latitude 34° 12.95' N Longitude 118° 55.83' W C	rew Names Mark Rains & Cher Wellonen
Drainage Area (sq mi) 44	Coarse, Noncohesive Bank Strata 2
Strahler Stream Order (1:24,000) 4	Bank Vegetation, Tree abundant
River Miles to Mugu Lagoon 11.4	Bank Vegetation, Shrub abundant
Adjacent Land Uses natural/range	Bank Vegetation, Herb abundant
Drainage Land Uses natural/range, low- &	Flow Duration perennial
high-density urban	Tidal Influence none
Landscape Landform hill	Base Flow Alterations, Magnitude higher
Landscape Position toe slope	Base Flow Alterations, Duration longer
Landscape Featur drainageway	Peak Flow Alteration, Magnitude higher
Local Topography rugged	Peak Flow Alteration, Timing earlier
Landscape Confine 🔽	Peak Flow Alterations, Duration       shorter
Channel Bank Full Width (ft) 14	Sediment Accomodation Space Trend incising
Channel Bank Full Mean Depth (ft) 5	Levees none
Channel Floodprone Area Width (ft) 104	Channel Hardscaping none
Channel Entrenchment Ratio 7.4	Channel Straightening
Channel Energy Slope 0-2%	Vegetation Clearing
Channel Sinuosity > 1.0-1.5	Dredging/Aggregate Extraction
Channel Bed Materials natural	Fill/Debris Placement
Channel Median Bed Material Size gravel	Plant Series Arroyo Willow Series
Bank Height (ft) N/A	Plant Series N/A
Bank Angle 46°	Plant Series N/A
Bank Materials natural	Plant Sereis N/A

**Notes** Lower stratum cemented sand, gravel, & cobble; potential restoration/conservation site.

Site # 37 Site Location Arroyo Las Posas near Somis	Date 14-Jun-99
Latitude 34° 15.26' N Longitude 118° 59.53' W Cr	ew Names Mark Rains & Cher Wellonen
Drainage Area (sq mi) 156	Coarse, Noncohesive Bank Strata
Strahler Stream Order (1:24,000) 4	Bank Vegetation, Tree trace
River Miles to Mugu Lagoon 12.4	Bank Vegetation, Shrub trace
Adjacent Land Uses natural/range, low-density urban	Bank Vegetation, Herb abundant
Drainage Land Uses natural/range, mining, rowcrop, low- & high-	Flow Duration perennial
density urban	Tidal Influence none
Landscape Landform delta plain	Base Flow Alterations, Magnitude higher
Landscape Position drainageway	Base Flow Alterations, Duration longer
Landscape Featur drainageway	Peak Flow Alteration, Magnitude higher
Local Topography level (gently rolling)	Peak Flow Alteration, Timing earlier
Landscape Confine	Peak Flow Alterations, Duration shorter
Channel Bank Full Width (ft) 150	Sediment Accomodation Space Trend filling
Channel Bank Full Mean Depth (ft) 1	Levees none
Channel Floodprone Area Width (ft) 160	Channel Hardscaping rock rip-rap banks
Channel Entrenchment Ratio 1.1	Channel Straightening
Channel Energy Slope 0-2%	Vegetation Clearing
Channel Sinuosity >1.0-1.5	Dredging/Aggregate Extraction
Channel Bed Materials natural	Fill/Debris Placement
Channel Median Bed Material Size sand	Plant Series Giant Reed Series
Bank Height (ft) 6	Plant Series Riparian-Ruderal Scrub Series
Bank Angle 25°	Plant Series Mulefat-Big Saltbush Series
Bank Materials rock rip-rap	Plant Sereis N/A
Notes N/A	

### CALLEGUAS CREEK WATERSHED ADVANCED IDENTIFICATION GEOMORPHOLOGY DATA SHEET

Site # 38 Site Location Corriganville Park-uppermost	t Arroyo Simi (movie set part) Date 15-Jun-99
Latitude 34° 16.094' N Longitude 118° 38.895' W Cu	rew Names Mark Rains & Cher Wellonen
Drainage Area (sq mi) 0.49	Coarse, Noncohesive Bank Strata N/A
Strahler Stream Order (1:24,000)	Bank Vegetation, Tree none
River Miles to Mugu Lagoon 36	Bank Vegetation, Shrub abundant
Adjacent Land Uses natural/range	Bank Vegetation, Herb abundant
Drainage Land Uses natural/range	Flow Duration ephemeral
	Tidal Influence none
Landscape Landform hill	Base Flow Alterations, Magnitude unchanged
Landscape Position back slope	Base Flow Alterations, Duration unchanged
Landscape Featur drainageway	Peak Flow Alteration, Magnitude unchanged
Local Topography rugged	Peak Flow Alteration, Timing unchanged
Landscape Confine 🔽	Peak Flow Alterations, Duration unchanged
Channel Bank Full Width (ft) 9	Sediment Accomodation Space Trend N/A
Channel Bank Full Mean Depth (ft) 0.5	Levees none
Channel Floodprone Area Width (ft) 15	Channel Hardscaping concrete bed & banks
Channel Entrenchment Ratio 1.7	Channel Straightening
Channel Energy Slope >2-10%	Vegetation Clearing
Channel Sinuosity >1.0-1.5	Dredging/Aggregate Extraction
Channel Bed Materials concrete	Fill/Debris Placement
Channel Median Bed Material Size N/A	Plant Series Mixed Willow Series (Woodland)
Bank Height (ft) 10	Plant Series Coast Live Oak Series
Bank Angle 14°	Plant Series CA Sagebrush-CA Buckwheat Series
Bank Materials concrete	Plant Sereis N/A
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Notes Sediment deposition on concrete providing sites for establishment.

Site # 39 Site Location Corriganville Park, uppermost	Arroyo Simi, downstream of #3 Date 16-Jun-99
Latitude 34° 16.039' N Longitude 118° 38.989' W Cre	ew Names Mark Rains & Cher Wellonen
Drainage Area (sq mi) 0.49	Coarse, Noncohesive Bank Strata
Strahler Stream Order (1:24,000)	Bank Vegetation, Tree abundant
River Miles to Mugu Lagoon 36	Bank Vegetation, Shrub abundant
Adjacent Land Uses natural/range	Bank Vegetation, Herb abundant
Drainage Land Uses natural/range	Flow Duration seasonal
	Tidal Influence none
Landscape Landform hill	Base Flow Alterations, Magnitude unchanged
Landscape Position back slope	Base Flow Alterations, Duration unchanged
Landscape Featur drainageway	Peak Flow Alteration, Magnitude unchanged
Local Topography rugged	Peak Flow Alteration, Timing unchanged
Landscape Confine 🔽	Peak Flow Alterations, Duration unchanged
Channel Bank Full Width (ft) 9	Sediment Accomodation Space Trend incising
Channel Bank Full Mean Depth (ft) 0.5	Levees none
Channel Floodprone Area Width (ft) 13	Channel Hardscaping none
Channel Entrenchment Ratio 1.4	Channel Straightening
Channel Energy Slope >2-10%	Vegetation Clearing
Channel Sinuosity >1.0-1.5	Dredging/Aggregate Extraction
Channel Bed Materials natural	Fill/Debris Placement
Channel Median Bed Material Size sand	Plant Series Arroyo Willow Series
Bank Height (ft) 15	Plant Series Coast Live Oak Series
Bank Angle 29°	Plant Series N/A
Bank Materials natural	Plant Sereis N/A
Notes Ground water discharge causes seasonal flow duration.	

Site # 40 Site Location Rocky Point (Junipero Channe	el) in Santa Susana Knolls Date 16-Jun-99
Latitude 34° 15.903' N Longitude 118° 39.779' W Cre	ew Names Mark Rains & Cher Wellonen
Drainage Area (sq mi) 1.9	Coarse, Noncohesive Bank Strata N/A
Strahler Stream Order (1:24,000) 2	Bank Vegetation, Tree none
River Miles to Mugu Lagoon 35	Bank Vegetation, Shrub none
Adjacent Land Uses natural/range, high-density urban	Bank Vegetation, Herb none
Drainage Land Uses natural/range, high- density urban	Flow Duration seasonal
	Tidal Influence none
Landscape Landform hill	Base Flow Alterations, Magnitude unchanged
Landscape Position toe slope	Base Flow Alterations, Duration unchanged
Landscape Featur drainageway	Peak Flow Alteration, Magnitude unchanged
Local Topography gently rolling	Peak Flow Alteration, Timing unchanged
Landscape Confine	Peak Flow Alterations, Duration unchanged
Channel Bank Full Width (ft) 14	Sediment Accomodation Space Trend unchanging
Channel Bank Full Mean Depth (ft) 1	Levees none
Channel Floodprone Area Width (ft) 14	Channel Hardscaping concrete bed & banks
Channel Entrenchment Ratio 1.0	Channel Straightening
Channel Energy Slope 0-2%	Vegetation Clearing
Channel Sinuosity >1.0-1.5	Dredging/Aggregate Extraction
Channel Bed Materials concrete	Fill/Debris Placement
Channel Median Bed Material Size N/A	Plant Series California Annual Grassland Series
Bank Height (ft) 7	Plant Series Riparian Scrub-Ruderal Series
Bank Angle 90°	Plant Series N/A
Bank Materials concrete	Plant Sereis N/A
Notes N/A	

Site # 41 Site Location Rocky Point (Arroyo Simi) in S	Santa Susana Knolls Date 16-Jun-99
Latitude 34° 15.903' N Longitude 118° 39.779' W Cre	ew Names Mark Rains & Cher Wellonen
Drainage Area (sq mi) 0.68	Coarse, Noncohesive Bank Strata
Strahler Stream Order (1:24,000)	Bank Vegetation, Tree none
River Miles to Mugu Lagoon 35	Bank Vegetation, Shrub none
Adjacent Land Uses natural/range, high-density urban	Bank Vegetation, Herb trace
Drainage Land Uses natural/range	Flow Duration ephemeral
	Tidal Influence none
Landscape Landform hill	Base Flow Alterations, Magnitude unchanged
Landscape Position toe slope	Base Flow Alterations, Duration unchanged
Landscape Featur drainageway	Peak Flow Alteration, Magnitude unchanged
Local Topography gently rolling	Peak Flow Alteration, Timing unchanged
Landscape Confine	Peak Flow Alterations, Duration unchanged
Channel Bank Full Width (ft) 20	Sediment Accomodation Space Trend unchanging
Channel Bank Full Mean Depth (ft) 0.5	Levees none
Channel Floodprone Area Width (ft) 24	Channel Hardscaping none
Channel Entrenchment Ratio 1.2	Channel Straightening 🔽
Channel Energy Slope 0-2%	Vegetation Clearing
Channel Sinuosity 1.0	Dredging/Aggregate Extraction
Channel Bed Materials natural	Fill/Debris Placement
Channel Median Bed Material Size sand	Plant Series N/A
Bank Height (ft) 7	Plant Series N/A
Bank Angle 15°	Plant Series N/A
Bank Materials natural(graded fill)	Plant Sereis N/A
Notes graded and no direct access so values are remote estimated	tes.

### CALLEGUAS CREEK WATERSHED ADVANCED IDENTIFICATION GEOMORPHOLOGY DATA SHEET

Site # 42 Site Location Happy Camp Canyon	Date 16-Jun-99
Latitude 34° 19.666' N Longitude 118° 52.062' W C	rew Names Mark Rains & Cher Wellonen
Drainage Area (sq mi) 8.8	Coarse, Noncohesive Bank Strata N/A
Strahler Stream Order (1:24,000) 3	Bank Vegetation, Tree abundant
River Miles to Mugu Lagoon 25	Bank Vegetation, Shrub abundant
Adjacent Land Uses natural/range	Bank Vegetation, Herb abundant
Drainage Land Uses natural/range	Flow Duration ephemeral
	Tidal Influence none
Landscape Landform alluvial fan	Base Flow Alterations, Magnitude unchanged
Landscape Position drainageway	Base Flow Alterations, Duration unchanged
Landscape Featur drainageway	Peak Flow Alteration, Magnitude unchanged
Local Topography level (rugged)	Peak Flow Alteration, Timing unchanged
Landscape Confine	Peak Flow Alterations, Duration unchanged
Channel Bank Full Width (ft) N/A	Sediment Accomodation Space Trend filling
Channel Bank Full Mean Depth (ft) N/A	Levees none
Channel Floodprone Area Width (ft) 310	Channel Hardscaping none
Channel Entrenchment Ratio N/A	Channel Straightening
Channel Energy Slope >2-10%	Vegetation Clearing
Channel Sinuosity N/A	Dredging/Aggregate Extraction
Channel Bed Materials natural	Fill/Debris Placement
Channel Median Bed Material Size sand	Plant Series California Walnut Series
Bank Height (ft) N/A	Plant Series Scalebroom Series
Bank Angle N/A	Plant Series Coast Live Oak Series
Bank Materials N/A	Plant Sereis N/A

Notes Sediment supply ratio low, channel formed on rising limb of a high discharge event; filled on falling limb.

Site # 43     Site Location     Conejo Creek below (south of)	Hwy 101       Date       17-Jun-99
Latitude 34° 12.38' N Longitude 118° 59.89' W Cre	ew Names Mark Rains & Cher Wellonen
Drainage Area (sq mi) 66	Coarse, Noncohesive Bank Strata
Strahler Stream Order (1:24,000) 4	Bank Vegetation, Tree none
River Miles to Mugu Lagoon 8.6	Bank Vegetation, Shrub none
Adjacent Land Uses row crop	Bank Vegetation, Herb abundant
Drainage Land Uses natural/range, rowcrop, orchard, low- & high-	Flow Duration perennial
density urban	Tidal Influence none
Landscape Landform alluvial plain	Base Flow Alterations, Magnitude higher
Landscape Position drainageway	Base Flow Alterations, Duration longer
Landscape Featur drainageway	Peak Flow Alteration, Magnitude higher
Local Topography level	Peak Flow Alteration, Timing earlier
Landscape Confine	Peak Flow Alterations, Duration       shorter
Channel Bank Full Width (ft) 96	Sediment Accomodation Space Trend filling
Channel Bank Full Mean Depth (ft) 1.0	Levees none
Channel Floodprone Area Width (ft) 102	Channel Hardscaping none
Channel Entrenchment Ratio 1.1	Channel Straightening 🔽
Channel Energy Slope 0-2%	Vegetation Clearing
Channel Sinuosity 1.0	Dredging/Aggregate Extraction
Channel Bed Materials natural	Fill/Debris Placement
Channel Median Bed Material Size sand	Plant Series Riparian-Ruderal Scrub Series
Bank Height (ft) 10	Plant Series Ruderal Grassland Series
Bank Angle 35°	Plant Series N/A
Bank Materials natural	Plant Sereis N/A
<b>Notes</b> Terrace, $\sim 10'$ above stream bed, $\sim 17$ acres of row crop.	

Site # 44 Site Location Conejo Creek tributary at Hwy	v 23 and James Road in T.O. Date 17-Jun-99
Latitude 34° 11.38' N Longitude 118° 51.86' W Cre	ew Names Mark Rains & Cher Wellonen
Drainage Area (sq mi) 1.3	Coarse, Noncohesive Bank Strata N/A
Strahler Stream Order (1:24,000)	Bank Vegetation, Tree none / none
<b>River Miles to Mugu Lagoon</b> 17.9	Bank Vegetation, Shrub none / none
Adjacent Land Uses high-density urban	Bank Vegetation, Herb none / none
Drainage Land Uses high-density urban	Flow Duration perennial
	Tidal Influence none
Landscape Landform N/A	Base Flow Alterations, Magnitude higher
Landscape Position N/A	Base Flow Alterations, Duration longer
Landscape Featur N/A	Peak Flow Alteration, Magnitude higher
Local Topography N/A	Peak Flow Alteration, Timing earlier
Landscape Confine	Peak Flow Alterations, Duration shorter
Channel Bank Full Width (ft) 20	Sediment Accomodation Space Trend unchanging
Channel Bank Full Mean Depth (ft) 0.5	Levees none
Channel Floodprone Area Width (ft) 22	Channel Hardscaping concrete bed & banks
Channel Entrenchment Ratio 1.1	Channel Straightening
Channel Energy Slope 0-2%	Vegetation Clearing
Channel Sinuosity >1.0-1.5	Dredging/Aggregate Extraction
Channel Bed Materials concrete	Fill/Debris Placement
Channel Median Bed Material Size N/A	Plant Series Coast live Oak-CA Walnut Series
Bank Height (ft) R-15, L-4	Plant Series N/A
Bank Angle R-35°, L-35°	Plant Series N/A
Bank Materials concrete / concrete	Plant Sereis N/A
Notes N/A	]

### CALLEGUAS CREEK WATERSHED ADVANCED IDENTIFICATION GEOMORPHOLOGY DATA SHEET

Site # 45 Site Location South Branch Arroyo Conejo	at Santa Monica Mountain Park Date 17-Jun-99
Latitude 34° 09.31' N Longitude 118° 58.36' W Cr	rew Names Mark Rains & Cher Wellonen
Drainage Area (sq mi) 0.40	Coarse, Noncohesive Bank Strata
Strahler Stream Order (1:24,000)	Bank Vegetation, Tree abundant
River Miles to Mugu Lagoon 18.1	Bank Vegetation, Shrub abundant
Adjacent Land Uses natural/range	Bank Vegetation, Herb abundant
Drainage Land Uses natural/range	Flow Duration seasonal (groundwater discharge)
	Tidal Influence none
Landscape Landform hill	Base Flow Alterations, Magnitude unchanged
Landscape Position back slope	Base Flow Alterations, Duration unchanged
Landscape Featur drainageway	Peak Flow Alteration, Magnitude unchanged
Local Topography level	Peak Flow Alteration, Timing unchanged
Landscape Confine	Peak Flow Alterations, Duration unchanged
Channel Bank Full Width (ft) 4.0	Sediment Accomodation Space Trend incising
Channel Bank Full Mean Depth (ft) 1.0	Levees none
Channel Floodprone Area Width (ft) 24	Channel Hardscaping none
Channel Entrenchment Ratio 6.0	Channel Straightening
Channel Energy Slope >2-10%	Vegetation Clearing
Channel Sinuosity >1.0-1.5	Dredging/Aggregate Extraction
Channel Bed Materials natural	Fill/Debris Placement
Channel Median Bed Material Size gravel	Plant Series CA Walnut-Arroyo Willow Series
Bank Height (ft) 1.0	Plant Series Purple Needlegrass Series
Bank Angle 68°	Plant Series N/A
Bank Materials natural	Plant Sereis N/A
	11

**Notes** Ground water discharge causing seasonal flow duration; excellent conservation site.

### CALLEGUAS CREEK WATERSHED ADVANCED IDENTIFICATION GEOMORPHOLOGY DATA SHEET

Site # 46 Site Location South Branch Arroyo Conejo	o tributary in Conejo Valley Date 17-Jun-99
Latitude 34° 09.16' N Longitude 118° 58.31' W C	Crew Names Mark Rains & Cher Wellonen
Drainage Area (sq mi) 0.04	Coarse, Noncohesive Bank Strata
Strahler Stream Order (1:24,000)	Bank Vegetation, Tree none
<b>River Miles to Mugu Lagoon</b> 18.1	Bank Vegetation, Shrub abundant
Adjacent Land Uses natural/range	Bank Vegetation, Herb abundant
Drainage Land Uses natural/range	Flow Duration ephemeral
	Tidal Influence none
Landscape Landform hill	Base Flow Alterations, Magnitude unchanged
Landscape Position back slope	Base Flow Alterations, Duration unchanged
Landscape Featur drainageway	Peak Flow Alteration, Magnitude unchanged
Local Topography rugged	Peak Flow Alteration, Timing unchanged
Landscape Confine 🔽	Peak Flow Alterations, Duration unchanged
Channel Bank Full Width (ft) 2.0	Sediment Accomodation Space Trend incising
Channel Bank Full Mean Depth (ft) 0.5	Levees none
Channel Floodprone Area Width (ft) 2.0	Channel Hardscaping none
Channel Entrenchment Ratio 1.0	Channel Straightening
Channel Energy Slope >2-10%	Vegetation Clearing
Channel Sinuosity >1.0-1.5	Dredging/Aggregate Extraction
Channel Bed Materials natural	Fill/Debris Placement
Channel Median Bed Material Size sand	Plant Series Purple Sage Series
Bank Height (ft) 2.0	Plant Series N/A
Bank Angle 90°	Plant Series N/A
Bank Materials natural	Plant Sereis N/A

**Notes** Canopy cover is very high; interception/evapotranspir. play important roles in the local hydrology.

### CALLEGUAS CREEK WATERSHED ADVANCED IDENTIFICATION GEOMORPHOLOGY DATA SHEET

Site # 47 Site Location Arroyo Conejo at Borchar	d Road Date 06-Dec-99
Latitude 34° 11.033' N Longitude 118° 55.705' W	Crew Names Mark Rains & Cher Wellonen
Drainage Area (sq mi) 11.2	Coarse, Noncohesive Bank Strata
Strahler Stream Order (1:24,000) 3	Bank Vegetation, Tree none
<b>River Miles to Mugu Lagoon</b> 13.9	Bank Vegetation, Shrub none
Adjacent Land Uses high-density urban	Bank Vegetation, Herb none
Drainage Land Uses natuarl/range, high- and low-density urban	Flow Duration seasonal
	Tidal Influence none
Landscape Landform alluvial fan	Base Flow Alterations, Magnitude lower
Landscape Position toe slope	Base Flow Alterations, Duration shorter
Landscape Featur drainageway	Peak Flow Alteration, Magnitude higher
Local Topography flat	Peak Flow Alteration, Timing earlier
Landscape Confine	Peak Flow Alterations, Duration shorter
Channel Bank Full Width (ft) 57	Sediment Accomodation Space Trend filling
Channel Bank Full Mean Depth (ft) 1.5	Levees not setback
Channel Floodprone Area Width (ft) 84	Channel Hardscaping none
Channel Entrenchment Ratio 1.47	Channel Straightening 🔽
Channel Energy Slope 0-2%	Vegetation Clearing
Channel Sinuosity 1.0	Dredging/Aggregate Extraction 🔽
Channel Bed Materials natural	Fill/Debris Placement
Channel Median Bed Material Size sand	Plant Series Coyote Brush Series
Bank Height (ft) 9	Plant Series Fennel Ruderal Grassland
Bank Angle 16°	Plant Series Cattail Series
Bank Materials natural	Plant Sereis N/A

Notes Excellent restoration opp(site recomm. by Lilian)-levees left a separate chan from lrg floodplain & terrace.

### CALLEGUAS CREEK WATERSHED ADVANCED IDENTIFICATION GEOMORPHOLOGY DATA SHEET

Site # 48 Site Location Unnaimed Drainage on San	ta Clara Avenue Date 06-Dec-99
Latitude 34° 15.193' N Longitude 119° 06.724' W	Crew Names Mark Rains & Cher Wellonen
Drainage Area (sq mi) 2.1	Coarse, Noncohesive Bank Strata
Strahler Stream Order (1:24,000) 2	Bank Vegetation, Tree none
<b>River Miles to Mugu Lagoon</b> 11.1	Bank Vegetation, Shrub none
Adjacent Land Uses row crop, orchard	Bank Vegetation, Herb none
Drainage Land Uses row crop, orchard	Flow Duration perennial
	Tidal Influence none
Landscape Landform delta plain	Base Flow Alterations, Magnitude higher
Landscape Position drainageway	Base Flow Alterations, Duration longer
Landscape Featur drainageway	Peak Flow Alteration, Magnitude higher
Local Topography flat	Peak Flow Alteration, Timing earlier
Landscape Confine	Peak Flow Alterations, Duration shorter
Channel Bank Full Width (ft) 21	Sediment Accomodation Space Trend filling
Channel Bank Full Mean Depth (ft) 1.25	Levees not setback
Channel Floodprone Area Width (ft) 27	Channel Hardscaping none
Channel Entrenchment Ratio 1.29	Channel Straightening 🔽
Channel Energy Slope 0-2%	Vegetation Clearing
Channel Sinuosity 1.0	Dredging/Aggregate Extraction
Channel Bed Materials natural	Fill/Debris Placement
Channel Median Bed Material Size sand	Plant Series Sperse vegetation-no series name
Bank Height (ft) 8	Plant Series N/A
Bank Angle 25°	Plant Series N/A
Bank Materials natural	Plant Sereis N/A

Notes Excellent opportunity for bank stabilization (additional notes on back of field data sheet).

### CALLEGUAS CREEK WATERSHED ADVANCED IDENTIFICATION GEOMORPHOLOGY DATA SHEET

Site # 49Site LocationOrchard at Barylwood and Aggen RoadsDate06-Dec-99	
Latitude 34° 17.447' N Longitude 119° 02.101' W Cu	rew Names Mark Rains & Cher Wellonen
Drainage Area (sq mi) 0.56	Coarse, Noncohesive Bank Strata
Strahler Stream Order (1:24,000)	Bank Vegetation, Tree none
River Miles to Mugu Lagoon 16.2	Bank Vegetation, Shrub none
Adjacent Land Uses orchard	Bank Vegetation, Herb none
Drainage Land Uses natural/range, orchard	Flow Duration ephemeral
	Tidal Influence none
Landscape Landform alivial fan	Base Flow Alterations, Magnitude higher
Landscape Position foot slope	Base Flow Alterations, Duration longer
Landscape Featur drainageway	Peak Flow Alteration, Magnitude unchanged
Local Topography gently rolling	Peak Flow Alteration, Timing unchanged
Landscape Confine	Peak Flow Alterations, Duration unchanged
Channel Bank Full Width (ft) 15	Sediment Accomodation Space Trend filling
Channel Bank Full Mean Depth (ft) 1	Levees none
Channel Floodprone Area Width (ft) 19	Channel Hardscaping none
Channel Entrenchment Ratio 1.27	Channel Straightening 🔽
Channel Energy Slope 0-2%	Vegetation Clearing
Channel Sinuosity >1.0-1.5	Dredging/Aggregate Extraction
Channel Bed Materials natural	Fill/Debris Placement
Channel Median Bed Material Size sand	Plant Series No vegetation present
Bank Height (ft) 2.5	Plant Series N/A
Bank Angle 30°	Plant Series N/A
Bank Materials natural	Plant Sereis N/A
Notes Excellent orchard rectoration and bank stabilization sit	

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