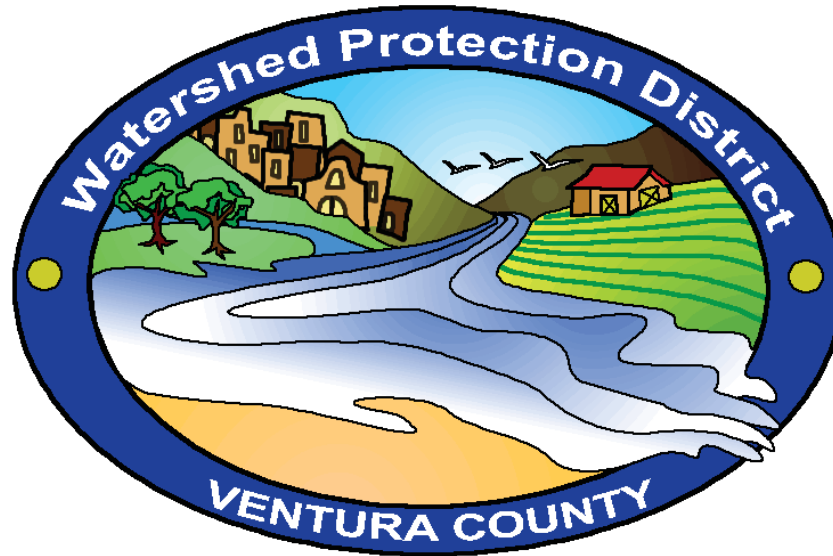


Ventura County Watershed Protection District



Flood Warning System Flood Response Plan

Table of Contents

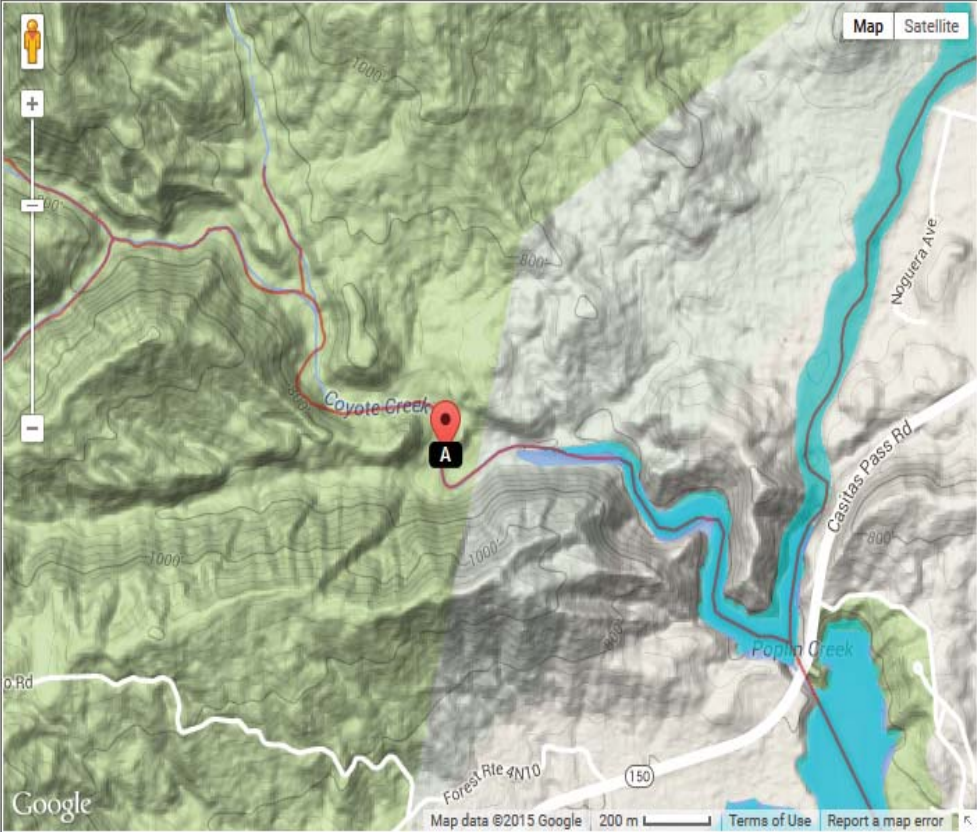
Stream Gage Monitoring Sites	1
600: Coyote Creek above Lake Casitas (CYOC1).....	2
602: Matilija Creek at Matilija Hot Springs (MJHC1).....	3
603: Matilija Creek abv Matilija Res (MTGC1).....	5
604: North Fork Matilija Creek (NPMC1).....	7
605: San Antonio Creek at Old Creek Road (SOTC1)	8
605A: San Antonio Creek at Old Creek Road (SOTC1).....	10
606: Santa Ana Creek near Oak View (AFIC1).....	12
608: Ventura River at Foster Park (VRVC1)	14
609: Ventura River near Ojala (VC609)	17
612: Ventura River at Santa Ana Blvd (VTRC1).....	19
630: Canada Larga (VC630)	21
632: Prince Barranca (VC632).....	23
633: Happy Valley Drain (MO-MEI).....	25
648: San Antonio Cr abv Spreading Grounds (VC648).....	27
649: San Antonio Creek at Grand (VC649)	29
669: Thacher Creek at Boardman (THCC1)	31
690: Matilija Dam (MTDC1)	33
691: Casitas Dam (LKCC1)	34
700: Arundell Barranca abv Harbor (VC700).....	36
701: Hopper Creek at Hwy 126 (HPPC1)	38
705: Piru Creek above Lake Piru (PCPC1)	40
707: Santa Clara River near Piru (SCPC1)	41
709: Santa Paula Creek at Steckel Park (SPPC1).....	43
710: Sespe Creek near Fillmore (SESC1)	45
711: Sespe Creek near Wheeler Springs (SSWC1).....	47
713: Pole Creek at Sespe Ave (POCC1)	48
714: Santa Felicia Dam Outflow (PSFC1).....	50
716: Piru Creek below Buck Creek (PICC1)	52

721: Sespe Creek at Old Telegraph West (SSXC1)	54
722: Sespe Creek at Old Telegraph East (SSEC1).....	55
723: Santa Clara River at Victoria Ave (VCAC1).....	57
724: Santa Clara River at Freeman Diversion (SRFC1)	60
725: Santa Clara River near Torrey Road (VC725)	63
731: Ellsworth Barranca at Hwy 126 (TDBC1).....	65
732: Harmon Barranca (VC732).....	67
735: Fagan Canyon (VC735)	69
737: Sespe Creek above Bear Creek (SBXC1)	71
738: Todd Barranca (VC738).....	72
776: Revolon Slough at Pleasant Valley (RVSC1).....	74
778: Nyland Acres Drain (VC778)	77
780: Beardsley Slough at Central Ave (BDHC1)	79
788: Canada de Los Alamos (VC788)	81
789: Pyramid Dam (PYM)	82
790: Pyramid Dam Outflow (PYM).....	83
791: Piru Creek above Frenchmans Flat (PFFC1)	84
792: Santa Felicia Dam (LKPC1)	85
793: Ormond Lagoon at chumash creek (JSRC1).....	87
794: Arundell Dam (VC794).....	89
800: Conejo Creek above Hwy 101 (CNJC1).....	90
800A: Conejo Creek at Ridge View (CJRC1).....	93
802: Arroyo Simi at Royal Ave (ASJC1).....	95
803: Arroyo Simi at Madera Road (ASNC1).....	97
804: Arroyo Tapo at Walnut Ave (ARTC1)	99
805: Calleguas Creek at CSUCI (CLLC1).....	101
806: Calleguas Creek at Hwy 101 (CGUC1)	104
830: South Branch Arroyo Conejo (SBJC1)	106
838: Arroyo Santa Rosa at Blanchard (VC838).....	108
841: Arroyo Las Posas above Hitch Blvd (AYOC1)	110
842: Arroyo Simi below Stow Street (ASWC1)	112
843: Arroyo Santa Rosa at E Las Posas (VC843).....	114


890: Las Lajas Dam (LLLC1).....	115
891: Sycamore Canyon Dam (SYDC1)	117
905: Cuyama River nr Ventucopa (CVPC1).....	119
931: Potrero Creek at Westlake Blvd (VC931).....	120
981: Bouquet Canyon abv Bouquet Canyon Rd (BQTC1)	121
982: Mint Canyon at Sierra Hwy (MNYC1).....	122
983: Santa Clara River at RR Bridge (NSCC1)	123
984: Elizabeth Canyon Creek (ECCC1).....	124
985: Castaic Canyon Creek (CYHC1)	125
986: Elderberry Canyon Creek (ECYC1)	126
987: Fish Creek (FICC1).....	127
989: Necktie Canyon Creek (VC989)	128
990: Castaic Dam (CAS).....	129
991: Castaic Outflow (CAS)	130
ME-VR2: Ventura River OVSD (ME-VR2).....	131
MO-CAM: Camarillo Hills Drain (MO-CAM).....	134
MO-MPK: Walnut Canyon abv Gabbert Canyon (MO-MPK)	136
MO-OJA: Fox Canyon Drain (MO-OJA)	137
MO-OXN: El Rio Drain (MO-OXN).....	139
MO-SIM: Bus Canyon Drain (MO-SIM).....	140
MO-THO: North Fork Arroyo Conejo (MO-THO)	142
MO-VEN: Moon Ditch (MO-VEN).....	143
Rainfall Monitoring Sites	144
FRESNO: Casitas Springs/Fresno Cyn	145
LACONCH: La Conchita/Sea Cliff	146
OJAIVAL: Ojai Valley	148
OXNARD: Oxnard Palin / Coastal	150
RUSTIC: Rustic Burn Area.....	152
SPRINGS: Springs Burn Area	153
STAROSA: Santa Rosa Valley	155

Stream Gage Monitoring Sites

Site: 600 - Coyote Creek above Lake Casitas (CYOC1)

Site Map							Site Information					
							Observed/Forecast:		Both			
							Sensor:		CMWD Bubbler			
							Response Levels					
							Level	Flow	Issues / Actions			
							Below Bankfull		No Action Needed			
Action	4,000	Level approaching velocity to start bank erosion										
Flood	4,200	Some out of bank flooding above Lake Casitas										
Moderate	4,500	Significant bank erosion can be expected. Stream gage may be damaged.										
Major	4,800	Significant flooding and bank erosion upstream of Lake Casitas.										
Notes												
							<p>No inundation layers are available for this area as there are no structures in the Special Flood Hazard Zone on this creek.</p>					
Flood Impact Locations												
Marker	CF	Name	Jurisdiction	Trigger	Action	Flood	Description	Personnel	Time Req	Action Needed		
A		Coyote Creek above Lake Casitas Stream Gage	Ventura County	Flow	3,500	4,500	Possible damage to banks near gaging site. May affect accuracy of gage readings.	SOCHIC	N/A	Be wary of reading from the gage for higher flow. Notify Casitas MWD of possible damage to the stream gage.		

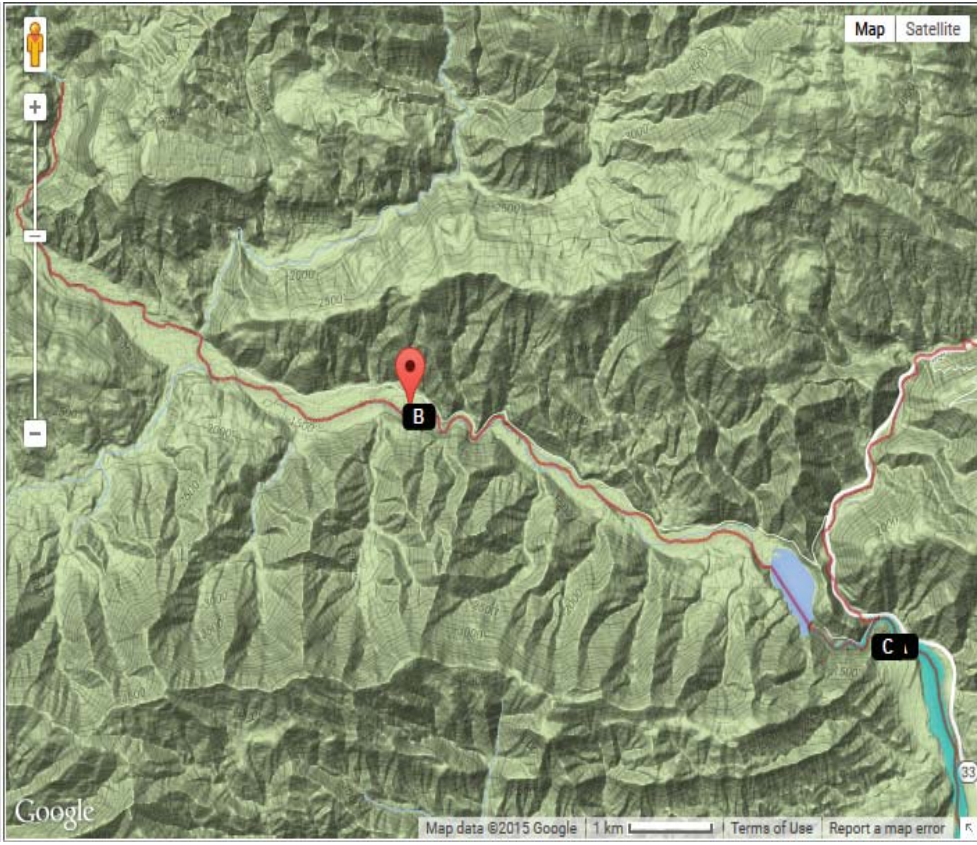
Site: 602 - Matilija Creek at Matilija Hot Springs (MJHC1)

Site Map							Site Information							
							Observed/Forecast:	Observed						
							Sensor:	VCWPD Bubbler						
							Response Levels							
							Level	Flow	Issues / Actions					
							Below Bankfull		No Action Needed					
Action	6,000	Approaching bank full. Minor flooding possible above this flow.												
Flood	8,000	Some flooding along Matilija Creek above and below Matilija Reservoir.												
Moderate	10,000	Flooding more extensive along Matilija Creek and downstream along Ventura River. Possible erosion along Matilija Creek.												
Major	15,000	Widespread flooding along Matilija Creek and downstream along Ventura River. Extensive bank erosion expected.												
Notes														
<p>No inundation layers are available for this area as there are no structures in the Special Flood Hazard Zone. Inundation starts below the confluence with North Fork Matilija. See site 609 for inundation layers.</p>														
Flood Impact Locations														
Marker	CF	Name	Jurisdiction	Trigger	Action	Flood	Description	Personnel	Time Req	Action Needed				
A		Flooding of Ojala Crossing	Ventura County	Flow	5,000	6,000	Flooding of Ojala Crossing on Ventura River	PWADO	1 Hour	Notify VC Trans for closure of Ojala Crossing				

Site: 602 - Matilija Creek at Matilija Hot Springs (MJHC1)

Flood Impact Locations										
Marker	CF	Name	Jurisdiction	Trigger	Action	Flood	Description	Personnel	Time Req	Action Needed
B		Flooding along Matilija Creek above Reservoir	Ventura County	Flow	9,000	10,000	Possible flooding of structures above Matilija Reservoir	EOCOPS	2 Hours	Issue possible evacuation if Matilija Road is available or move to high ground warning in road is not passable for residents along Matilija Creek above Matilija Reservoir. Evacuation by VCALERT or by helicopter is phone lines are down in the area.
C		Flooding of homes along Ventura River near Ojala	Ventura County	Flow	9,000	10,000	Flooding of homes along Ventura River near Ojala Crossing	EOCOPS	2 Hours	Issue possible evacuation if Matilija Road is available or move to high ground warning in road is not passable for residents along Matilija Creek above Matilija Reservoir. Evacuation by VCALERT or by helicopter is phone lines are down in the area.

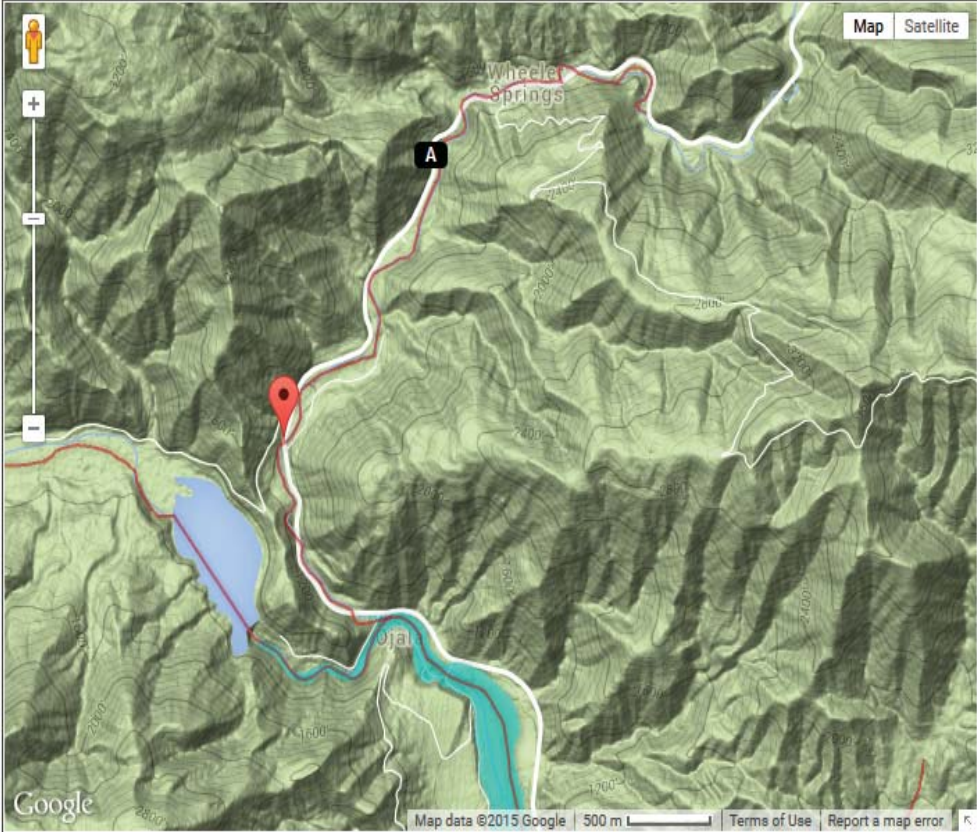
Site: 603 - Matilija Creek abv Matilija Res (MTGC1)

Site Map							Site Information								
							Observed/Forecast:	Both							
							Sensor:	USGS Bubbler							
							Response Levels								
							Level	Flow	Issues / Actions						
							Below Bankfull		No Action Needed						
Action	6,000	Approaching bank full. Minor flooding possible above this flow.													
Flood	8,000	Some flooding along Matilija Creek above and below Matilija Reservoir.													
Moderate	10,000	Flooding more extensive along Matilija Creek and downstream along Ventura River. Possible erosion along Matilija Creek.													
Major	15,000	Widespread flooding along Matilija Creek and downstream along Ventura River. Extensive bank erosion expected.													
Notes															
<p>No inundation layers exists for this site as no Special Flood Hazard Zone exist above Matilija Reservoir.</p>															
Flood Impact Locations															
Marker	CF	Name	Jurisdiction	Trigger	Action	Flood	Description	Personnel	Time Req	Action Needed					
A		Flooding of Ojala Crossing	Ventura County	Flow	5,000	6,000	Flooding of Ojala Crossing on Ventura River	PWADO	1 Hour	Notify VC Trans for closure of Ojala Crossing					

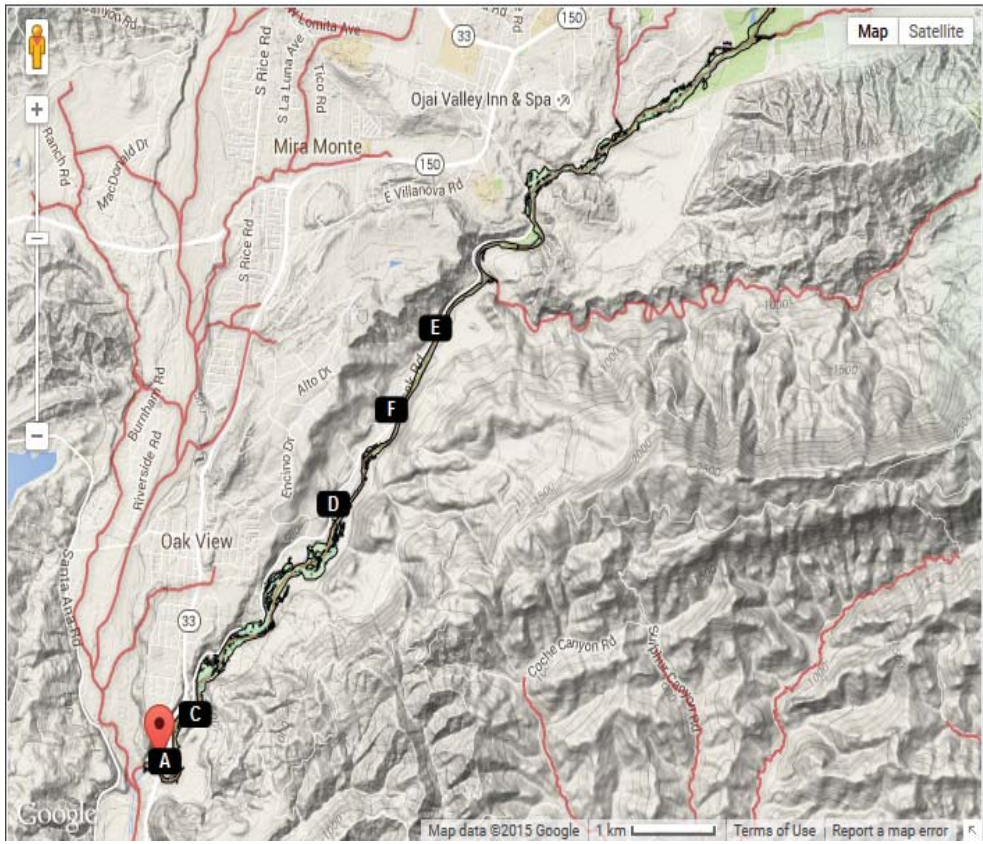
Site: 603 - Matilija Creek abv Matilija Res (MTGC1)

Flood Impact Locations										
Marker	CF	Name	Jurisdiction	Trigger	Action	Flood	Description	Personnel	Time Req	Action Needed
B		Flooding along Matilija Creek above Reservoir	Ventura County	Flow	9,000	10,000	Possible flooding of structures above Matilija Reservoir	EOCOPS	2 Hours	Issue possible evacuation if Matilija Road is available or move to high ground warning in road is not passable for residents along Matilija Creek above Matilija Reservoir. Evacuation by VCALERT or by helicopter is phone lines are down in the area.
C		Flooding of homes along Ventura River near Ojala	Ventura County	Flow	9,000	10,000	Flooding of homes along Ventura River near Ojala Crossing	EOCOPS	2 Hours	Issue possible evacuation if Matilija Road is available or move to high ground warning in road is not passable for residents along Matilija Creek above Matilija Reservoir. Evacuation by VCALERT or by helicopter is phone lines are down in the area.

Site: 604 - North Fork Matilija Creek (NFMC1)

Site Map							Site Information						
							Observed/Forecast:		Both				
							Sensor:		VCWPD Float				
							Response Levels						
							Level	Flow	Issues / Actions				
							Below Bankfull		No Action Needed				
Action	6,000	Nearing channel capacity.											
Flood	7,000	Some flooding along San Antonio Creek. Minor erosion along channel can be expected											
Moderate	8,000	Some over topping onto Hwy 33 and severe erosion possible											
Major	9,000	Major flooding and major erosion and damage to Hwy 33 expected.											
Notes													
<p>No inundation layers exist for this site as no Special Flood Hazard Zone exist above the confluence with Matilija Creek. See site 609 for areas below the confluence.</p>													
Flood Impact Locations													
Marker	CF	Name	Jurisdiction	Trigger	Action	Flood	Description	Personnel	Time Req	Action Needed			
A		Hwy 33 along North Fork Matilija	Ventura County	Flow	7,000	8,000	Possible damage to Hwy 33 due to erosion	EOCOPS	2 Hours	Notify CHP/Cal Trans of potential damage to Hwy 33 along North Fork Matilija Creek and closure may be needed.			

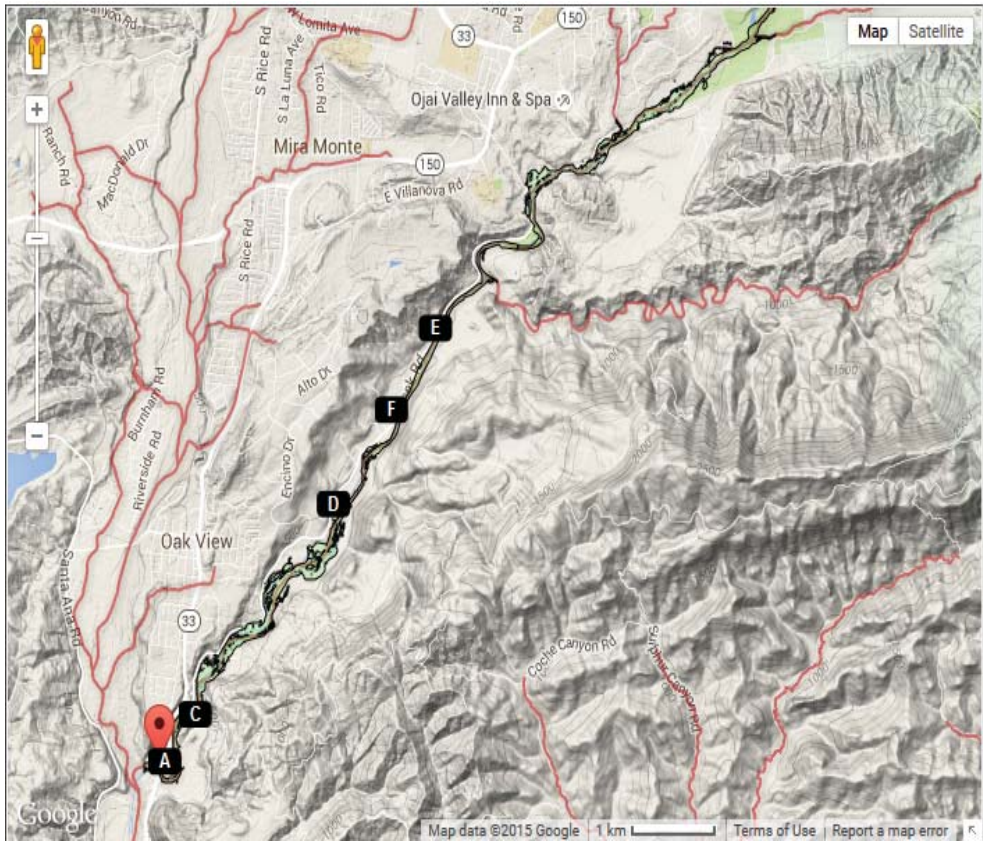
Site: 605 - San Antonio Creek at Old Creek Road (SOTC1)

Site Map							Site Information					
							Observed/Forecast:		Both			
							Sensor:		VCWPD PT			
							Response Levels					
							Level	Flow	Issues / Actions			
							Below Bankfull		No Action Needed			
Action	6,000	Channel nearing capacity. Some over topping and minor flooding along the banks are expected.										
Flood	8,000	Flooding of the equestrian barns and some structures along San Antonio Creek										
Moderate	9,000	Flooding of multiple homes along San Antonio Creek.										
Major	10,000	Flooding of Creek Road and homes across Creek Road along San Antonio Creek.										
Notes												
Flood Impact Locations												
Marker	CF	Name	Jurisdiction	Trigger	Action	Flood	Description	Personnel	Time Req	Action Needed		
A		Homes and equestrian area near Hwy 33	Ventura County	Flow	7,000	8,000	Potential for flooding of home and equestrian area upstream of Hwy 33.	EOCOPS	1 Hour	Order evacuation along lower section of San Antonio Creek near Hwy 33. Use VCALERT or sheriff patrol		

Site: 605 - San Antonio Creek at Old Creek Road (SOTC1)

Flood Impact Locations										
Marker	CF	Name	Jurisdiction	Trigger	Action	Flood	Description	Personnel	Time Req	Action Needed
C		OVSD Pipeline	Ventura County	Flow	9,000	10,000	Possible damage to Ojai Valley Sanitary District sewer pipeline at San Antonio Creek	EOCOPS	1 Hour	Notify Ojai Valley Sanitary District of potential damage to pipe line and to monitor for possible spillage of sewer effluent.
D		Homes along Creek Road	Ventura County	Flow	9,000	10,000	Flooding of homes between Creek Road and San Antonio Creek.	EOCOPS	1 Hour	Order evacuation for homes along Old Creek Road via VICALERT or order to move to higher ground.
E		Erosion of banks along San Antonio Creek	Ventura County	Flow	10,000	12,000	Significant erosion of banks along San Antonio Creek can be expected. May damage homes or structures near San Antonio Creek.	EOCOPS	1 Hour	Evacuations for all homes along San Antonio Creek via VICALERT should be ordered. Notify VC Trans to close Old Creek Road or patrol for possible road damage.
F		Flooding of Creek Road	Ventura County	Flow	18,000	20,000	Water start to flood Creek Road and flood homes on other side of Creek Road near Kenewa Street	EOCOPS	1.5 Hours	Order evacuation of homes north of Creek Road and have them move to higher ground due to closure of Creek Road. Notify via VICALERT or helicopter.

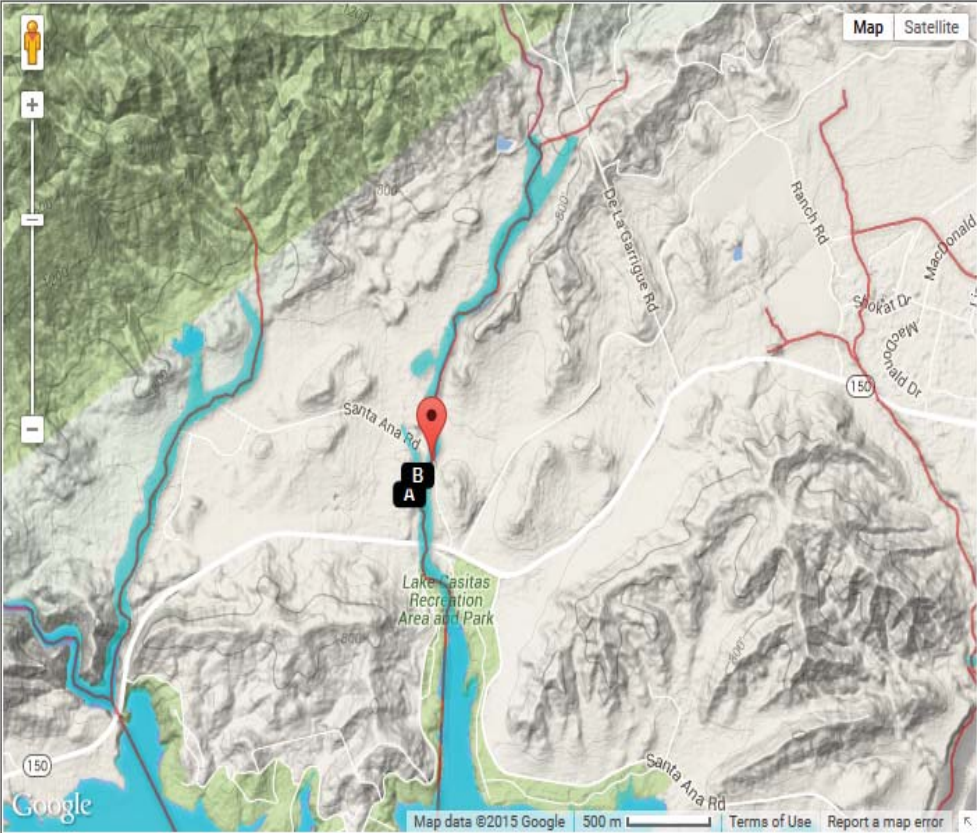
Site: 605A - San Antonio Creek at Old Creek Road (SOTC1)

Site Map							Site Information				
							Observed/Forecast:	Both			
							Sensor:	VCWPD Radar			
							Response Levels				
							Level	Flow	Issues / Actions		
							Below Bankfull		No Action Needed		
Action	6,000	Channel nearing capacity. Some over topping and minor flooding along the banks are expected.									
Flood	8,000	Flooding of the equestrian barns and some structures along San Antonio Creek									
Moderate	9,000	Flooding of multiple homes along San Antonio Creek.									
Major	10,000	Flooding of Creek Road and homes across Creek Road along San Antonio Creek.									
Notes											
Flood Impact Locations											
Marker	CF	Name	Jurisdiction	Trigger	Action	Flood	Description	Personnel	Time Req	Action Needed	
A		Homes and equestrian area near Hwy 33	Ventura County	Flow	7,000	8,000	Potential for flooding of home and equestrian area upstream of Hwy 33.	EOCOPS	1 Hour	Order evacuation along lower section of San Antonio Creek near Hwy 33. Use VCALERT or sheriff patrol	

Site: 605A - San Antonio Creek at Old Creek Road (SOTC1)

Flood Impact Locations										
Marker	CF	Name	Jurisdiction	Trigger	Action	Flood	Description	Personnel	Time Req	Action Needed
C		OVSD Pipeline	Ventura County	Flow	9,000	10,000	Possible damage to Ojai Valley Sanitary District sewer pipeline at San Antonio Creek	EOCOPS	1 Hour	Notify Ojai Valley Sanitary District of potential damage to pipe line and to monitor for possible spillage of sewer effluent.
D		Homes along Creek Road	Ventura County	Flow	9,000	10,000	Flooding of homes between Creek Road and San Antonio Creek.	EOCOPS	1 Hour	Order evacuation for homes along Old Creek Road via VICALERT or order to move to higher ground.
E		Erosion of banks along San Antonio Creek	Ventura County	Flow	10,000	12,000	Significant erosion of banks along San Antonio Creek can be expected. May damage homes or structures near San Antonio Creek.	EOCOPS	1 Hour	Evacuations for all homes along San Antonio Creek via VICALERT should be ordered. Notify VC Trans to close Old Creek Road or patrol for possible road damage.
F		Flooding of Creek Road	Ventura County	Flow	18,000	20,000	Water start to flood Creek Road and flood homes on other side of Creek Road near Kenewa Street	EOCOPS	1.5 Hours	Order evacuation of homes north of Creek Road and have them move to higher ground due to closure of Creek Road. Notify via VICALERT or helicopter.

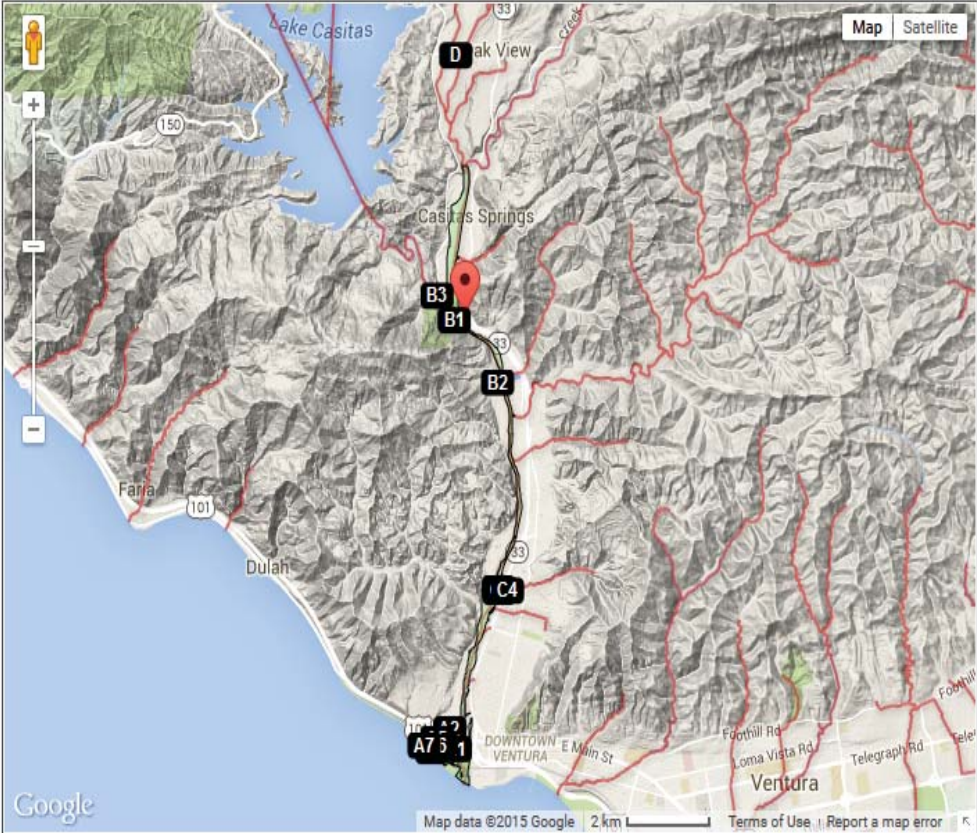
Site: 606 - Santa Ana Creek near Oak View (AFIC1)

Site Map							Site Information						
							Observed/Forecast:	Both					
							Sensor:	CMWD Float					
							Response Levels						
							Level	Flow	Issues / Actions				
							Below Bankfull		No Action Needed				
Action	4,500	Nearing capacity of channel near Santa Ana Road.											
Flood	5,100	Minor flooding along Santa Ana Creek.											
Moderate	6,500	Nearing capacity near Sana Ana Road Bridge. Flooding occurring around bridge.											
Major	8,500	Major flooding and channel erosion expected.											
Notes													
<p>No inundation layers are available for this area as there are no structures in the Special Flood Hazard Zone on this creek.</p>													
Flood Impact Locations													
Marker	CF	Name	Jurisdiction	Trigger	Action	Flood	Description	Personnel	Time Req	Action Needed			
A		Santa Ana Creek capacity near Santa Ana Road	Ventura County	Flow	4,800	5,100	Santa Ana Creek may break out of channel and/or bank erosion	EOCOPS	N/A	No actions needed as area is not populated.			

Site: 606 - Santa Ana Creek near Oak View (AFIC1)

Flood Impact Locations										
Marker	CF	Name	Jurisdiction	Trigger	Action	Flood	Description	Personnel	Time Req	Action Needed
B		Santa Ana Creek Road Bridge	Ventura County	Flow	8,000	8,500	Potential damage to Santa Ana Creek Road Bridge	EOCOPS	1.5 Hours	Notify VC Trans to close Santa Ana Creek Road due to possible damage to high flows.

Site: 608 - Ventura River at Foster Park (VRVC1)

Site Map							Site Information								
							Observed/Forecast:	Both							
							Sensor:	USGS Radar							
							Response Levels								
							Level	Flow	Issues / Actions						
							Below Bankfull		No Action Needed						
Action	15,000	Nearing channel capacity near RV park.													
Flood	18,000	Flooding of agricultural fields and slightly higher flows will flood the RV Park													
Moderate	35,000	Flooding of Foster Park and flows about to go over Hwy 101. Flooding of some homes along the river is expected.													
Major	50,000	Flooding along both sides of the Ventura River. Water approaching stoplog facility at OST Yard													
Notes															
Flood Impact Locations															
Marker	CF	Name	Jurisdiction	Trigger	Action	Flood	Description	Personnel	Time Req	Action Needed					
A1	1	Action level to start evacuation of RV Park	Ventura City	Flow	13,000	13,500	Action level to start precautionary evacuation of the Ventura Beach RV Park.	EOCOPS	4 Hours	Notify City of Ventura Fire to start evacuations of the Ventura Beach RV Park					

Site: 608 - Ventura River at Foster Park (VRVC1)

Flood Impact Locations										
Marker	CF	Name	Jurisdiction	Trigger	Action	Flood	Description	Personnel	Time Req	Action Needed
A2	1	Agricultural Fields (Welty Property)	Ventura City	Flow	15,000	18,000	Ventura River may start flooding agricultural fields north of Main Street and RV Park.	EOCOPS	1 Hour	Confirm with Ventura City Fire that the RV Park is about to be flooded and that it has been evacuated.
A3	1	Ventura Beach RV Park	Ventura City	Flow	18,000	20,000	Flooding occurs at Ventura Beach RV Park	EOCOPS	N/A	Confirm conditions with Ventura City Fire
A4		Lower Emma Wood State Beach	Ventura City	Flow	21,000	25,000	Floods lower part of Emma Wood State Beach	EOCOPS	3 Hours	Notify Calif State Parks to evacuate and close Emma Wood State Beach
A5		Main Street from 101 to Ventura River	Ventura City	Flow	28,000	30,000	Water starts to flood Main Street west of the bridge. Closure of Main Street from Hwy 101 to Hwy 33.	EOCOPS	2 Hours	Notify City of Ventura to close Main Street between Hwy 33 and Hwy 101. Notify CHP/Cal Trans to close Main Street Exit on Hwy 101.
A6		Highway 101 between Main Street and Hwy 33	Ventura City	Flow	35,000	40,000	Water surface elevation reaches the berm protecting Hwy 101. Flooding and closure of Hwy 101 from Hwy 33 to Main Street	EOCOPS	2 Hours	Notify CHP/Cal Trans to close Hwy 101 between Hwy 33 and Main Street as low level crossing area will be flooded.
A7		Upper Emma Wood State Beach	Ventura City	Flow	38,000	41,000	Flows from Ventura River may go under Hwy 101 bridge (Main Street Offramp) and flood Emma Wood State Beach.	EOCOPS	2 Hours	Notify Calif State Parks that the western part of Emma Wood State Beach will be flooded and beach should be evacuated.
B1		Foster Park	Ventura County	Flow	33,000	35,000	Water start to flood Foster Park.	EOCOPS	3 Hours	Notify Ventura County Parks to evacuate Foster Park.
B2		Ojai Valley Sanitation Plant	Ventura County	Flow	70,000	80,000	High water may be impacting the Ojai Valley Sanitation Plant	EOCOPS	2 Hours	Notify Ojai Valley Sanitation Plant to take protective measures and active flood fighting

Site: 608 - Ventura River at Foster Park (VRVC1)

Flood Impact Locations										
Marker	CF	Name	Jurisdiction	Trigger	Action	Flood	Description	Personnel	Time Req	Action Needed
B3		Homes along Ventura River and Coyote Creek	Ventura County	Flow	55,000	60,000	Flooding of homes between Ventura River and Coyote Creek near Foster Park	EOCOPS	2 Hours	Consider evacuating homes between Santa Ana and Casitas Vista Roads
C1	7	Ventura River Stoplogs	Ventura City	Flow	40,000	45,000	Stoplogs need to be inserted in the Ventura Levee at the OST Yard by VCWPD O+M personnel.	SOCHIC	6 Hours	Notify VCWPD Ops/Maintenance to insert stoplogs at the Ventura River Levee at OST Yard.
C2		Bike Path Bridge at OST Yard	Ventura County	Flow	50,000	55,000	Backwater from Ventura River may be impacting bike path and OST Yard area. Stoplogs should be installed as precautionary.	EOCOPS	2 Hours	Verify with VCWOD Ops/Maint that the stoplogs have been inserted. Notify OSY Yard of possible flooding.
C3		Lower OST Yard	Ventura County	Flow	60,000	65,000	Flooding should be occurring on OST Yard property due to backwater from Ventura River.	EOCOPS	N/A	Monitor for possible debris from oil operations near Ventura River.
C4		Upper OST Yard	Ventura County	Flow	70,000	75,000	Widespread flooding of properties north of Ventura Levee at the OST Yard.	EOCOPS	1 Hour	Multiple evacuations needed and closure of most roads north of City of Ventura.
D		Ojai Valley Sanitary District Pipeline at Santa Ana	Ventura County	Flow	22,000	25,000	Erosion may cause damage to Ojai Valley Sanitary District pipeline crossing at Santa Ana Blvd or along the bike trail.	EOCOPS	1 Hour	Notify Ojai Valley Sanitation to monitor their pipeline in case of severe channel erosion