REACH NO.	REACH NAME	CURRENTLY PERMITTED MAINTENANCE ACTIVITIES BY REACH	PROPOSED MAINTENANCE ACTIVITIES BY REACH	EXPLANATION OF CHANGES
1	963 M.C.I.	The channel clearing work will involve hand cutting a 15-foot-wide "tunnel" through the vegetation to the right-of-way boundary to train flows to the center of the channel inlet. The Operator shall not impact the 0.27 acre of vegetation that was allowed to remain in 1997. All removal shall be done by hand operated tools.	Lollipop 15-foot wide "tunnel" through the vegetation in invert. Allow native shrubs such as willow, coyote bush, and mulefat to spread and become established outside channel on both banks. Crews have relocated existing chain-link fence to between access road and channel so the "side area" next to the channel isn't used as a staging area. Remove all vegetation with hand operated tools. Clear trash, debris, and non-native vegetation by hand within easement boundaries.	Recommendation: 1) Allow willow canopy to spread outside channel on north side. Allow native shrubs such as coyote bush and mule fat to become established in this area. Relocate existing chain-link fence as shown on exhibit (placed between access road and channel so the "side area" next to the channel isn't used as a staging area). 2) Allow willow canopy to spread outside channel on south side. Allow native shrubs such as coyote bush and mule fat to become established in this area.
2	Dry Canyon	The channel clearing work will involve maintaining and clearing a 20-foot-wide path along the centerline of the channel. A canopy of vegetation (trees along both banks) will be left in place. Hand clearing will be performed annually to keep the center portion of the channel clear and vegetation will be removed from the openings in the crib walls to the extent necessary to prevent structural damage to the crib walls. The Operator shall not impact the 0.39 acre of vegetation that was allowed to remain in 1997. All removal shall be done by hand operated tools. The width of clearing shall not exceed 20 feet and trees with a 3-inch DBH or greater shall not be removed. All exotics shall be selectively removed from the area during maintenance activities.	The reach-clearing work will involve maintaining and clearing a 20-foot-wide path along the reach's centerline. New trees within and on the reach banks will not be allowed to mature. Hand clearing will be performed annually to keep the center portion of the reach clear. Vegetation will be removed from the openings in the crib walls to the extent necessary to prevent structural damage to the crib walls. Clear trash, debris, and non-native vegetation by hand within easement boundaries.	No change. The new language ("trees within and on the reach banks will not be allowed to mature") is required because the banks are vertical crib walls which large trees damage. Most, if not all of the trees on the crib walls are ornamental species.
3	Creek M.C.I.	Hand cutting and clearing vegetation and trees will be done in an 18-foot-wide area by 75-foot long area at the inlet to the channel. Oak trees will be left in place. Removal of vegetation shall be done by hand clearing only.	 Hand cutting and clearing vegetation and trees will be done in an 18-foot-wide by 75-foot-long area at the inlet to the concrete-lined channel. Large oak trees are not rooted within easement boundary. Clear trash, debris, and non-native vegetation by hand within easement boundaries. 	No change.
4	Browns Creek	Mechanical equipment will be used to keep clear all vegetation from bank to bank within the rail and timber revetment.	 Mechanical equipment will be used to keep clear all vegetation from bank to bank within the rail and timber revetment. Clear trash, debris, and non-native vegetation by hand within easement boundaries. 	No change.
5	M.C.I. (West Fork)	The vegetation clearing work will involve hand clearing a 20-foot-wide path along the centerline of the channel. The total amount of area impacted due to maintenance activities, for both reaches combined, was a 20-foot-wide	 The vegetation clearing work will involve hand clearing a 20-foot-wide path along the centerline of the channel. Clear trash, debris, and non-native vegetation by hand within easement boundaries. 	No change.
6	M C I (Fact	path along the centerline of the channel for a total of 812 linear feet (0.37 acre). The Operator shall use hand clearing only. Exotics shall be removed during maintenance activities. The vegetation (0.36 acre) that was	 The vegetation clearing work will involve hand clearing a 20-foot-wide path along the centerline of the channel. Clear trash, debris, and non-native vegetation by hand within easement boundaries. 	No change.

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7	Bull Creek M.C.O.	The work will involve mechanical or manual methods to clear dead vegetation and tree limbs along the banks to ensure clear flow within the channel. Mechanical clearing is necessary due to hazardous conditions. The mechanical clearing will be accomplished from the top of bank. No equipment will be driven in the invert. This work will be done only in the first 400 feet of riprap channel downstream from the concrete channel outlet to ensure that flow does not back up into the concrete channel upstream of Victory Boulevard. The trimming and removal of dead vegetation along the banks within the 400 linear feet shall not exceed a width of 15 feet on each bank. The Operator shall not impact the 1.45 acres of vegetation that was allowed to remain in 1997. A biologist will monitor clearing activities in order to facilitate replacement of ornamental vegetation with native riparian vegetation.	Allow willows to grow in a single line (no more than one tree every ten feet) and to mature at the toe of the levee on the right bank. Lollipop these willows up to six feet. Use hand clearing only. LACFCD agreed to maintain this reach for USACE even though it is within USACE easement.	Note that the area and length of the work are has been reduced to 275 feet of riprap due to the installation of the USACE restoration project in Balboa Park. The vegetation on the invert was not allowed to remain prior to the restoration project, so the current maintenance activities do not represent a change. Recommendation: Allow willows to grow in a single line (no more than one tree every ten feet) and to mature at the toe of the levee on the right bank.
		All vegetation in this channel reach will be cleared annually using hand clearing only.	Clear trash, debris, and non-native vegetation by hand within easement boundaries.	No change.
9	Project 106 Outlet	Brush and tree trimming will be performed where needed to keep growth at the levels that were left in November 1997. Hand clearing only. Impacts shall not exceed 0.12 acre.	Remove non-native ash trees at top of both banks and replace with native trees.	Recommendation: Replace the non-native ash trees with native trees on both banks. Based on the physical parameters of this channel reach and its location, native sycamore trees should be allowed to establish on both banks instead of willows.

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10	Project No. 469	annually to the extent necessary to prevent restricting flows in the storm drain upstream of Victory Boulevard. This will require mechanical clearing of vegetation in the channel for approximately 4,000 feet downstream of Victory Boulevard. Channel work will also include mechanical grading to train flows to the centerline of the channel. The Operator shall not impact 2.11 acres of vegetation that was allowed to remain in the channel in 1997.	The reach will be maintained clear all vegetation to allow flows in the storm drains upstream of Victory Boulevard (includes clearing of vegetation approximately 4,000 feet	The vegetation in this reach consists almost entirely of non- native ruderal (weedy) vegetation. The maintenance plan has not been fully implemented for this reach because of a conflict between the maintenance plan and the permits. Issuance of the 1997 CDFW permit coincided with a toxic spill in this reach and resulted in the incorrect conclusion that "no work was done in 1997." Since that time, the monitoring biologist has worked with LACFCD personnel to implement partial clearing strategies designed to meet flood-control concerns and to retain as much vegetation as possible. A rotating pattern of clearing was implemented that allowed ruderal vegetation to remain on one bank each year. As a result, the ruderal vegetation cleared each year was two years old. After several years, however, the monitoring biologist found that the bank of mowed ruderal vegetation responded favorably to the mowing and provided more "biological value" than the older (two year old) ruderal vegetation. Therefore, the monitoring biologist discontinued the rotating clearing pattern at this reach and full clearing was resumed. The hydrological studies identified this reach as hydraulically insufficient, without the capacity for any additional vegetation.
12	Haines Canyon	Hand clearing of all vegetation will be used to keep the reach clear of vegetation, except for vegetation that was allowed to remain. This process will be repeated annually to prevent growth from restricting flows at the outlet to the channel.	 Hand clear of all vegetation in understory and lollipop trees. Clear trash, debris, and non-native vegetation by hand within easement boundaries. 	No change.
	Project No. 5215 Unit 1	The channel clearing work will involve mechanical clearing the earthen outlet channel with a backhoe and hand cutting all vegetation from the first 250 feet of channel bottom (12-feet wide) downstream at the end of Christy Avenue. Bank vegetation and the remaining 300 feet of channel will not be cleared.	 The channel clearing work involves mechanically clearing the earthen outlet reach with a backhoe and hand cutting all vegetation from the first 250 feet of the channel bottom (12-feet wide) downstream at the end of Christie Avenue. Bank vegetation and the remaining 300 feet of the channel will not be cleared. Clear trash, debris, and non-native vegetation by hand within easement boundaries. 	No change.

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14	May Channel (M.C.O. Into Pacoima Canyon)	Hand clearing work will be performed to keep reach clear of all vegetation. The Operator shall not impact the 0.5 acre of vegetation that was allowed to remain in 1997.	 Hand clear all understory vegetation. The tree canopy will remain. Clear trash, debris, and non-native vegetation by hand within easement boundaries. 	No change. Actual maintenance activities that have been conducted at this reach have always been confined to the invert. The riparian vegetation that was allowed to remain on the banks had been the "protected" vegetation in this reach. The surveys then determined that this vegetation is occupied by the least Bell's vireo. However because the reach is hydraulically deficient, the maintenance activities will be implemented as permitted.
15	Pacoima Wash	Mechanical equipment and hand cutting will be used to keep the reach cleared of all vegetation. The Operator shall not impact 0.01 acre of vegetation.		The 0.01 acre of vegetation allowed to remain in 1997 was upstream of the pedestrian bridge. This 0.01 acre consisted of cattails that was taken over by invasive species (e.g., ornamental trees and Washingtonia palms). This preserved polygon was relocated and expanded, at the direction of the monitoring biologist, to the downstream terminus of the channel reach.
16	Verdugo Wash- Las Barras Canyon (channel inlet)	Hand clearing work will be used to keep the reach clear of all vegetation. Impacts shall not exceed 0.07 acre.	Clear trash, debris, and non-native vegetation by hand within easement boundaries.	No change.
18	Engleheard Channel	Hand clearing work will remove dead vegetation and tree branches from the area between the pipe and wire revetments. All vegetation will be cleared annually by manual methods.		Recommendation: Allow native shrub species to grow and become established on the banks, above the pipe and wire revetments. Protect native shrub species by selectively removing non-native weedy species.
19	Pickens Canyon	Manual removal of all vegetation adjacent to or growing out of the crib structures will be performed.	Hand clear all vegetation adjacent to the crib structures and all vegetation growing out of them. Allow native shrubs, but not trees, to grow in the invert of the channel except on the crib structures. Clear trash, debris, and non-native vegetation by hand within easement boundaries.	Recommendation: Except for on the crib structures, allow native shrubs to grow on the invert of the channel reach from the upstream end to the pedestrian bridge at Mountain Ave. Protect native shrubs by selectively removing non-native vegetation. Native trees will not be allowed to grow on the invert.

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	@ Private	Mechanical equipment will be used to keep the channel clear of all vegetation. Impacts shall not exceed 0.13 acre (115 linear feet by 50 feet wide).	Hand-held equipment will be used to selectively remove all new non-native and invasive species. Allow native vegetation/shrubs to grow in the invert and on the channel banks, but not trees. Do not allow additional oaks or other trees to grow on the banks. Clear trash, debris, and non-native vegetation by hand within easement boundaries.	Recommendation: Mechanical equipment will be used to keep the reach clear of all vegetation except for the native shrubs on the right (or west) bank. Under the guidance of the monitoring biologist, native shrubs will be allowed to grow on the right (or west) bank, and non-native species will be selectively removed. Do not allow oaks or other additional trees to grow on the banks. Hand-held equipment instead of mechanical will be used. Adjacent residents have installed landscaping plants. The language is revised to indicate only "new" growth will be removed. Recommendation:
21	Webber Channel (Main Channel Inlet d/s Bridge)	Hand clearing work will be performed to keep the reach clear of all vegetation. Impacts shall not exceed 0.03 acre.	Hand-held equipment will be used to selectively remove all new non-native and invasive species. Allow native vegetation/shrubs to grow in the invert and on the channel banks. Do not allow additional oaks or other trees to grow on the banks. Clear trash, debris, and non-native vegetation by hand within easement boundaries.	Recommendation: Mechanical equipment will be used to keep the reach clear of all vegetation except for the native shrubs on the left (or east) bank. Under the guidance of the monitoring biologist, native herbaceous and shrub species will be allowed to grow on the left (or east) bank, and non-native species will be selectively removed. Selectively remove non-native ground cover species (e.g. ivy) from left (or east) bank. Do not allow additional oaks or other trees to grow on the banks. Hand-held equipment instead of mechanical will be used. Adjacent residents have installed landscaping plants. The language is revised to indicate only "new" growth will be removed.
22		Except for on the crib structures, allow native shrubs (but not trees) to grow on the invert of the entire channel reach. Selectively protect native shrubs by removing non-native vegetation. Native trees will not be allowed to mature on the channel invert.	Except for on the crib structures, allow native shrubs (but not trees) to grow on the invert of the entire length of the channel. Protect native shrubs by selectively removing non-native vegetation. Trees will not be allowed to mature on the channel invert. Clear trash, debris, and non-native vegetation by hand within easement boundaries.	Recommendation: Except for on the crib structures, allow native shrubs (but no trees) to grow on the invert of the entire length of this channel reach. Protect native shrubs by selectively removing non-native vegetation. Native trees will not be allowed to mature on the invert.

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24	Compton Creek	Mechanical equipment will be used to keep the channel clear of all vegetation.	 Vegetation along the invert will be mowed to approximately 6 to 12 inches above grade using a skidsteer or a long-reach excavator with an attached mower. Leave the clippings in place. The vegetation along the water line will be mowed using a long-reach excavator with attached flail mower that gently mows the overgrowth back and away from the waterline to prevent increase turbidity in the water. An excavator with flail mower will be used to mow vegetation on the side slope. All invasive species such as castor beans will be removed by hand, except Arundo donax which will be mechanically removed. All equipment will have rubber tires or rubber tracks, not steel tracks. Clear trash, debris, and non-native vegetation by hand within easement boundaries. 	Years of scraping the vegetation has resulted in small amounts of the soil on the invert being removed. As this minor removal happened year after year, it resulted in the invert being lower than intended and beginning to expose the toe of the grouted rip rap slopes. To compensate for this, the proposed maintenance activity will leave the "tracked" vegetation in place (which will eventually break down naturally and turn into soil). The slight roughness of the vegetation and root systems allow some sediment flowing downstream to be trapped. All invasive plants are removed before tracking to reduce them from spreading.
25	(a) Los Angeles River - Willow to PCH (East/Left Bank)		 Vegetation along the invert will be mowed to approximately 6 to 12 inches above grade using a skidsteer or a long-reach excavator with an attached mower. Leave the clippings in place. 	
25	(b) Los Angeles River - Willow to PCH (West/Right Bank)	Using mechanical equipment, all exotic vegetation will be removed throughout this reach. Riparian vegetation allowed to remain in 2000 shall not be impacted by future maintenance activities. Trimming of the riparian vegetation may be necessary in the future as growth occurs.	 The vegetation along the water line will be mowed using a long-reach excavator with attached flail mower that gently mowed the overgrowth back and away from the waterline to prevent increased turbidity in the water. An excavator with flail mower will be used to mow vegetation on the side slope. All invasive species such as castor beans will be removed by hand, except <i>Arundo donax</i> which will be mechanically removed. All protected polygons will remain. All equipment will have rubber tires or rubber tracks, not steel tracks. Clear trash, debris, and non-native vegetation by hand within easement boundaries. 	Reach has been split into (a) and (b) components. Recommendation: 1) Allow native willow woodland vegetation to mature and expand on left (or east) bank. 2) Allow wetland marsh expansion and persistence on right (or west) bank. 3) Selective removal of woody plants (hand tools only in marsh habitat)
26	Project 740	The channel will be cleared using hand labor. Hand labor will be used to trim the vegetation which has been allowed to remain since 1997. New growth will not be allowed to become established and will be removed annually by manual methods.	Hand trim the mature vegetation. New growth will not be allowed to become established and will be removed annually by manual methods. Ruderal vegetation above the banks will be mowed. Clear trash, debris, and non-native vegetation by hand within easement boundaries.	No change.

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27	Wilmington	All vegetation from the channel in the area upstream of Lomita Boulevard will be kept cleared. Between Lomita Boulevard and Pacific Coast Highway, vegetation will be kept clear from the two channels, but the island will remain. The work will be done with mechanical equipment.	• [On hold until Long Term Maintenance Agreement has been finalized with the City.] • Upstream of Lomita Boulevard, all vegetation will be cleared. • Between Lomita Boulevard and Pacific Coast Highway, vegetation will be cleared from the toe of the invert to 3 feet up the slope on all banks, including the island. Upslope from that, vegetation on the island will remain. • Clearing work in the reach invert will be done with mechanical equipment; vegetation on the banks will be trimmed with hand tools. • Clear trash, debris, and non-native vegetation by hand within easement boundaries.	Construction for the City of Los Angeles's Wilmington Drain Multi-Use Project (Proposition O Clean Water Bond) began in spring 2013. Construction included the removal of sediment and non-native vegetation throughout the length of this reach. The channel reach provides potential habitat for the least Bell's vireo and southwestern willow flycatcher and surveys have determined that it is occupied by the vireo. The City of Los Angeles obtained the necessary "take" permits under FESA and CESA. Construction activities were allowed to continue under the terms and conditions of the permits. Prior to this year, the maintenance plan had been fully implemented and the vireo was protected by terms and conditions under permits held by the LACFCD.
28	(PD T2200)	The channel clearing work will involve hand clearing all vegetation from the ungrouted rock levee and hand clearing all vegetation along the levee from the base to an outward distance of 20 feet. The Operator shall avoid impacts to southwestern pond turtles. Clearing shall not extend beyond the area that was cleared in 1997 or as stated in the maintenance plan without prior approvals from the Department. No native trees shall be removed with a 2 inch diameter at breast height or greater. The 0.2 acre of vegetation that was allowed to remain in 1997 shall not be impacted during future maintenance activities.	Hand clear all vegetation Clear trash, debris, and non-native vegetation by hand within easement boundaries.	This reach has insufficient capacity. Structures will be inundated in high flow storm events. LACFCD would like the authority to remove all vegetation annually if shown necessary after further analyses. In order to comply with the HACCP plan developed by the LACFCD for the WDR and adopted on February 4, 2010, by the Los Angeles RWQCB, pre-clearing aquatic invasive species surveys will be conducted in the reaches of the Malibu Creek Watershed.
29	Creek (PD T1684) M.C.I.	The channel clearing work will involve hand clearing a 30-foot-wide strip along the watercourse low flow channel from the debris posts to the right-of-way boundary. The Operator shall avoid impacts to southwestern pond turtles. The Operator shall not impact the 0.61 acre of vegetation that was allowed to remain in 1997. No native trees shall be removed with a 2-inch diameter at breast height or greater.	The reach clearing work will involve hand clearing a 30-foot-wide strip along the watercourse low flow reach from the debris posts to the opposite bank. Within the herbaceous vegetation on the left bank, plant 2 valley oaks (Quercus lobata) and 5 blue elderberry (Sambucus nigra) at edge of right-of-way (about 100 to 125 feet away from concrete levee). No native trees shall be removed with a 2-inch diameter at breast height or greater. Clear trash, debris, and non-native vegetation by hand within easement boundaries.	Recommendation: Within the herbaceous vegetation on the left bank, plant two (2) valley oaks (Quercus lobata) and five (5) blue elderberry (Sambucus nigra) at edge of right-of-way (about 100 to 125 feet away from concrete levee). In order to comply with the HACCP plan developed by the LACFCD for the WDR and adopted on February 4, 2010, by the Los Angeles RWQCB, pre-clearing aquatic invasive species surveys will be conducted in the reaches of the Malibu Creek Watershed.

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32	Stokes Canyon Channel (PD T043)	The work will involve hand clearing of all vegetation between the pipe and wire. Embankment vegetation outside the pipe and wire channel will be left in place.	 Embankment vegetation outside the pipe and wire channel will be left in place. Plant at least 20 young coast live oaks (Quercus agrifolia) on the south bank between the bridge and the most upstream end of the reach. 	Recommendation: Plant at least 20 young coast live oaks (<i>Quercus agrifolia</i>) on the south bank between the bridge and the most upstream end of the reach. In order to comply with the HACCP plan developed by the LACFCD for the WDR and adopted on February 4, 2010, by the Los Angeles RWQCB, pre-clearing aquatic invasive species surveys will be conducted in the reaches of the Malibu Creek Watershed.
33	Medea Creek (PD T1378 U.2)	The channel clearing work will avoid vegetation clearing due to sensitive resources. If any vegetation needs to be cleared during future maintenance activities, the Operator shall provide additional mitigation for those impacts. The entire 0.69 acre modified area is vegetated. Therefore, if clearing all vegetation, need to mitigate for an additional 0.69 acre of riparian vegetation. Vegetation shall be removed by hand clearing only. No native trees shall be removed with a 2-inch diameter at breast height or greater.	Trees will be lollipopped to a height of seven feet. The cattails downstream of Thousand Oaks Blvd will be allowed to naturally expand throughout this downstream area. If overgrowth of the cattails occurs over time, the vegetation at this location may need to be trimmed back every so often. Vegetation shall be removed by hand clearing only. Clear trash, debris, and non-native vegetation by hand within easement boundaries.	Additional vegetation clearing impacts will be offset through mitigation at Stickleback River Ranch.
34	Medea Creek (PD T1005) Main Channel Outlet (Chumasa Park)	Hand clearing only. Impacts shall not exceed 0 .19 acre. No native trees shall be removed with a 2 inch diameter at breast height or greater.		LACFCD transferred the fee title right of way and appurtenant flood control facilities to the City of Agoura Hills. Maintenance has been discontinued and the reach is removed from all regulatory permits.
35	Medea Creek M.C.Iunder Route 101	Hand clearing only. Impacts shall not exceed 0.14 acre. No native trees shall be removed with a 2 inch diameter at breast height or greater.	from all regulatory permits. • Hand clearing will be performed to keep reach clear of all vegetation.	No change. This reach is not within LACFCD easement boundaries. In order to comply with the HACCP plan developed by the LACFCD for the WDR and adopted on February 4, 2010, by the Los Angeles RWQCB, pre-clearing aquatic invasive species surveys will be conducted in the reaches of the Malibu Creek Watershed.
36	Cheseboro Main Channel Inlet	The clearing work will involve hand cutting/trimming three two-inch diameter trees. New vegetation will be cleared annually to prevent blockage of the inlet. The Operator shall not impact the 0.05 acre of vegetation that was allowed to remain in 1997.	 Hand clear vegetation in the invert. The tree canopy will remain, but with a clear "tunnel" path to convey flows. Clear trash, debris, and non-native vegetation by hand within easement boundaries. 	No change. Language revised to reflect current on-site conditions (ie. the three two-inch diameter trees have changed). In order to comply with the HACCP plan developed by the LACFCD for the WDR and adopted on February 4, 2010, by the Los Angeles RWQCB, pre-clearing aquatic invasive species surveys will be conducted in the reaches of the Malibu Creek Watershed.

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37	Medea Creek/Chesebor o Creek Outlet	Hand clearing work will be performed to keep reach clear of all vegetation. The 0.25 acres of vegetation that was allowed to remain in 1997 shall not be impacted during maintenance activities.	Hand clearing work will be performed to keep reach clear of all vegetation, except protected polygons. Clear trash, debris, and non-native vegetation by hand within easement boundaries.	No change. In order to comply with the HACCP plan developed by the LACFCD for the WDR and adopted on February 4, 2010, by the Los Angeles RWQCB, pre-clearing aquatic invasive species surveys will be conducted in the reaches of the Malibu Creek Watershed.
38	Lindero M.C.O.	Hand clearing work will be performed to keep reach clear of all vegetation. Impacts shall not exceed 0.19 acre. No native trees shall be removed with a 2-inch diameter at breast height or greater.	 Hand clearing work will be performed to keep reach clear of all vegetation. No native trees shall be removed with a 2-inch diameter at breast height or greater. Clear trash, debris, and non-native vegetation by hand within easement boundaries. 	No change. In order to comply with the HACCP plan developed by the LACFCD for the WDR and adopted on February 4, 2010, by the Los Angeles RWQCB, pre-clearing aquatic invasive species surveys will be conducted in the reaches of the Malibu Creek Watershed.
39	Beatty Channel Outlet @ SGR 25+99.00	Mechanical equipment will be used to keep the channel outlet clear of all vegetation.	Mechanical equipment will be used to keep the channel outlet clear of all vegetation. Clear trash, debris, and non-native vegetation by hand within easement boundaries.	No change.
40		From Santa Fe Dam to the San Bernardino Freeway, most of the vegetation consists of mule fat interspersed with various exotic species. The 10-foot-wide strips along the levee toes will be kept clear of all vegetation annually using a combination of mechanical equipment and hand labor. Two strips of vegetation varying from 50 to 75 feet in width will be mowed using various types of mowing equipment. The root structures of the plants will not disturbed. In subsequent years, mowing will be accomplished in alternate cycles between the center portion of the channel and the two strips of vegetation. Grading to reestablish baseline conditions will be performed on an as-needed basis to maintain access ramps and low-flow channels from side outlets.	wide strips along the levee toes will be kept clear of all vegetation annually using a combination of mechanical	No change. Reach is split into (a) and (b) components.
40	(b) San Gabriel River – I-10 Freeway to	From San Bernardino Freeway to Thienes Avenue, this portion of the reach will be kept clear of all vegetation using mechanical equipment and hand labor, except for the riparian vegetation allowed to remain in place in November 1997. This process will be repeated annually. Grading to reestablish baseline conditions will be performed on an as-needed basis to maintain access ramps and low-flow channels from side outlets.	From San Bernardino Freeway, Interstate 10, to Thienes Avenue, this portion of the reach will be kept clear of all vegetation using mechanical equipment and hand labor, except for the protected polygons. This process is repeated annually and is monitored by a biologist familiar with least Bell's vireo habitat requirements. Grading to reestablish baseline conditions will be performed on an as-needed basis to maintain access ramps and lowflow reaches from side outlets. Clear trash, debris, and non-native vegetation by hand within easement boundaries.	No change. Reach is split into (a) and (b) components.

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41	Walnut Creek	Mechanical equipment will be used to keep the channel clear of all vegetation, except for the riparian habitat (mostly willows) allowed to remain in November 1997 and vegetation located away from structure bases and not located in center of channel. Vegetation growing in the rock riprap along the channel sides and on the riprap at the downstream end of the concrete channel will be cleared. Some trimming of the riparian vegetation may be necessary to reduce the impact on flow in the channel as future growth occurs.	 Hand clear the vegetation growing in the rock riprap along the reach sides and on the riprap at the downstream end of the concrete reach. Some trimming of the riparian vegetation may be necessary to reduce the impact on flow in the reach as future growth occurs. Clear trash, debris, and non-native vegetation by hand 	No change. Cannot implement the SGR Feasibility Study recommendation to add more vegetation because USACE owns the reach and will not allow additional vegetation. Some of the riparian vegetation allowed to remain in place in November 1997 has been lost due to natural causes. Due to drought conditions, several willow trees were stressed and became susceptible to a wood borer infestation.
42	San Jose Creek d/s 1000' from end of concrete channel	Mechanical equipment will be used to keep the channel clear of all vegetation, except for the riparian habitat (mostly willows) allowed to remain in November 1997 and vegetation located away from structure bases and not located in center of channel. Vegetation growing in the rock riprap along the channel sides and on the riprap at the downstream end of the concrete channel will be cleared. Some trimming of the riparian vegetation may be necessary to reduce the impact on flow in the channel as future growth occurs.	 Hand clear the vegetation growing in the rock riprap along the reach sides and on the riprap at the downstream end of the concrete reach. Some trimming of the riparian vegetation may be necessary to reduce the impact on flow in the reach as future growth occurs. 	No change. Some of the riparian vegetation allowed to remain in place in November 1997 has been lost due to natural causes. Willow trees were lost due to high storm flows during the 2004–2005 rainy season. The monitoring biologist in conjunction with LACFCD personnel identified young willow trees within the same "line" for protection. However, the sediment islands had been scoured and these young willow trees did not survive subsequent rainy seasons.
43	(a) San Gabriel River- Upper	Mechanical equipment will be used to keep the channel clear of all vegetation, except for the riparian vegetation allowed to remain in November 1997 (5.27 acres). Trimming of the riparian vegetation may be necessary in the future as growth occurs	reach sides to keep the channel clear of all vegetation, except for the protected polygons. • Some trimming of the riparian vegetation may be necessary to reduce the impact on flow in the reach as future growth occurs. • The vegetation that is seasonally occupied by the least Bell's vireo will be flagged and a qualified biologist will be present during clearing activities. • Clear trash, debris, and non-native vegetation by hand within easement boundaries.	No change. Cannot implement the SGR Feasibility Study recommendation to add more vegetation because USACE owns the reach and will not allow additional vegetation. Reach has been split into (a) and (b) components.
43	(b) San Gabriel River- Lower	Mechanical equipment will be used to keep the channel clear of all vegetation, except for the riparian vegetation allowed to remain in November 1997. Trimming of the riparian vegetation may be necessary in the future as growth occurs.	 Mechanically clear the invert and the rock riprap along the reach sides to keep the channel clear of all vegetation, except for the protected polygons. Some trimming of the riparian vegetation may be necessary to reduce the impact on flow in the reach as future growth occurs. The vegetation that is seasonally occupied by the least Bell's vireo will be flagged and a qualified biologist will be present during clearing activities. Clear trash, debris, and non-native vegetation by hand 	No change. Cannot implement the SGR Feasibility Study recommendation to add more vegetation because USACE owns the reach and will not allow additional vegetation. Reach has been split into (a) and (b) components.
	San Gabriel River – Rubber Dams (Upper)	Mechanical equipment will be used to keep the channel	within easement boundaries. • Mechanically clear the invert and the rock riprap along the reach sides to keep the channel clear of all vegetation, except for the protected polygons.	

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44	San Gabriel River – Rubber Dams (Middle) San Gabriel River – Rubber Dams (Lower)	clear of all vegetation, except for the riparian vegetation allowed to remain in· November 1997 (5.7 acres). Trimming of the riparian vegetation may be necessary in the future as growth occurs.	 Some trimming of the riparian vegetation may be necessary to reduce the impact on flow in the reach as future growth occurs. The vegetation that is seasonally occupied by the least Bell's vireo will be flagged and a qualified biologist will be present during clearing activities. 	No change. Cannot implement the SGR Feasibility Study recommendation to add more vegetation because USACE owns the reach and will not allow additional vegetation.
45	Sand Canyon (PD T1307) Main Channel Inlet	Mechanical clearing will be performed to keep reach clear of all vegetation. Impacts shall not exceed 0.05 acre. No native trees shall be removed with a 2-inch diameter at breast height or greater.	 This reach is not within LACFCD easement boundaries. Continue maintenance until the City of Santa Clarita completes their project in this area. Then discontinue maintenance and remove from all regulatory permits. Mechanically clear all vegetation. Clear trash, debris, and non-native vegetation by hand within easement boundaries. 	No change. This reach is not within LACFCD easement boundaries.
46	Sand Canyon (PD T1307) Main Channel Outlet	Mechanical clearing will be performed to keep reach clear of all vegetation. Impacts shall not exceed 0.06 acre. No native trees shall be removed with a 2-inch diameter at breast height or greater.	This reach is not within LACFCD easement boundaries. Continue maintenance until the entity responsible for maintaining the reach is notified that the reach is their responsibility. Then discontinue maintenance and remove from all regulatory permits. Mechanically clear all vegetation. Clear trash, debris, and non-native vegetation by hand within easement boundaries.	No change.
47	Santa Clara River Main Channel (PD T1733-Unit 1)	The channel clearing work will involve mechanical removal of all vegetation within 20 feet from the levee slope lining along the entire reach. The Operator shall not impact the 4.51 acres of vegetation that was allowed to remain in 1997. Impacts shall not exceed 0.76 acre (1,656 linear feet by 20 feet wide along each levee).	 Mechanically clear all vegetation within 15 feet from the levee slope lining along the entire reach. Clear trash, debris, and non-native vegetation by hand within easement boundaries. 	No change. (Standardized levee toe clearing to 15 feet.)
48	Mint Canyon Channel between Sierra Highway & Adon Avenue	Mechanical and hand clearing work will be performed to keep reach clear of all vegetation.	Mechanical and hand clearing work will be performed to keep reach clear of all vegetation. Clear trash, debris, and non-native vegetation by hand within easement boundaries.	No change.
49	Mint Canyon Channel between Adon Avenue & Scherzinger Lane	All vegetation in this channel reach will be cleared annually using mechanical and manual methods.	Mechanically and hand clear all vegetation. Clear trash, debris, and non-native vegetation by hand within easement boundaries.	No change.
50	Mint Canyon Channel between Solamint & Soledad	Mechanical and hand clearing work will be performed to keep reach clear of all vegetation. The vegetation (0.01 acre) that was allowed to remain in 1997 shall not be impacted during future maintenance activities.	Mechanical and hand clearing work will be performed to keep reach clear of all vegetation. Clear trash, debris, and non-native vegetation by hand within easement boundaries.	No change.
51	Mint Canyon M.C.O. (PD 1894)/Santa Clara River – Main Channel	The channel clearing work will involve mechanical removal of all vegetation within 20 feet from the levee slope lining along the entire reach (932 linear feet). Impacts shall not exceed 0.9 acres.	Mechanically clear all vegetation within 15 feet from the levee slope lining along the entire reach. Clear trash, debris, and non-native vegetation by hand within easement boundaries.	No change. (Standardized levee toe clearing to 15 feet.)

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	Sierra Highway Road Drainage (CDR 523.203)	Hand clearing work will be performed to keep reach clear of all vegetation. Impacts shall not exceed 0.4 acre.	 This reach is not within LACFCD easement boundaries. Continue maintenance until the entity responsible for maintaining the reach is notified that the reach is their responsibility. Then discontinue maintenance and remove from all regulatory permits. Hand clearing will be performed to keep reach clear of all vegetation. Clear trash, debris, and non-native vegetation by hand within easement boundaries. 	No change.
53	Santa Clara River Non-Main Channel (PD 832) Main Channel Inlet	Mechanical and hand clearing work will be performed to keep reach clear of all vegetation. Impacts shall not exceed 0.03 acre.	 Mechanically and hand clear all vegetation. Clear trash, debris, and non-native vegetation by hand within easement boundaries. 	No change.
54	Santa Clara River Non-Main Channel (PD 832) Main Channel Outlet	Mechanical and hand clearing work will be performed to keep reach clear of all vegetation. Impacts shall not exceed 0.31 acre.	Mechanical and hand clearing work will be performed to keep reach clear of all vegetation. Clear trash, debris, and non-native vegetation by hand within easement boundaries.	No change.
55	Santa Clara River Main Channel – Right Bank Reach (PD's 910, 832, 1758, & 1562 Unit 2)	The channel clearing work will involve mechanical removal of all vegetation within 20 feet from the levee slope lining along the entire reach.	 Mechanically clear all vegetation within 15 feet from the levee slope lining along the entire reach. Clear trash, debris, and non-native vegetation by hand within easement boundaries. 	No change. (Standardized levee toe clearing to 15 feet.) Reaches 60, 59, and 58 are no longer combined with 55.
56	Santa Clara River Main Channel – Left Bank Reach (PD 832)	The channel clearing work will involve mechanical removal of all vegetation within 20 feet from the levee slope lining along the entire reach.	Mechanically clear all vegetation within 15 feet from the levee slope lining along the entire reach. Clear trash, debris, and non-native vegetation by hand within easement boundaries.	No change. (Standardized levee toe clearing to 15 feet.)
57	Whites Canyon (PD T704 M.C.I.)	Mechanical or hand clearing work will be performed to keep reach clear of all vegetation. No work was done in 1997 and 0.42 acre of vegetation was present in the channel.	 Mechanical or hand clearing work will be performed to keep reach clear of all vegetation, except for protected polygons. Clear trash, debris, and non-native vegetation by hand within easement boundaries. 	No change.
58	Santa Clara River Main Channel – Right Bank Reach (PD 374)	The channel clearing work will involve mechanical removal of all vegetation within 20 feet from the levee slope lining along the entire reach.	 Mechanically clear all vegetation within 15 feet from the levee slope lining along the entire reach. Clear trash, debris, and non-native vegetation by hand within easement boundaries. 	No change. (Standardized levee toe clearing to 15 feet.) Reaches 60, 59, and 58 are no longer combined with 55. Reach 59 is now combined with Reach 58.
60	Santa Clara River Main Channel – Right Bank Reach (PD's 1339 and 374)	The channel clearing work will involve mechanical removal of all vegetation within 20 feet from the levee slope lining along the entire reach.	Mechanically clear all vegetation within 15 feet from the levee slope lining along the entire reach. Clear trash, debris, and non-native vegetation by hand within easement boundaries.	No change. (Standardized levee toe clearing to 15 feet.) Reaches 60, 59, and 58 are no longer combined with 55.

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61	Santa Clara River Main Channel (PD 659 & 754)	The channel clearing work will involve mechanical removal of all vegetation within 20 feet from the levee slope lining along the entire reach. Impacts shall not exceed 0.75 acre. Clearing shall not extend more than 20 feet beyond the toe of the levee.	within easement boundaries.	No change. (Standardized levee toe clearing to 15 feet.) Reach 62 is now combined with 61.
63	Oak Ave Road Drainage (CDR 523.081)	The channel clearing work will involve mechanized removal of all vegetation bank to bank. Impacts shall not exceed 0.85 acre.	This reach is not within LACFCD easement boundaries. Continue maintenance until the entity responsible for maintaining the reach is notified that the reach is their responsibility. Then discontinue maintenance and remove from all regulatory permits. Mechanically clear all vegetation. Clear trash, debris, and non-native vegetation by hand within easement boundaries.	No change.
64	Soledad Canyon Road Drain (CDR 523.071 D outlet)	The channel clearing work will involve hand clearing an 8-foot-wide path along the centerline of the channel. All vegetation will be removed by hand labor. Impacts shall not exceed 0.10 acre (8-feet wide by 577 linear feet).	 This reach is not within LACFCD easement boundaries. The reach clearing work will involve mechanical (rubbertired equipment) and hand clearing to clear an eight-foot-wide path along the centerline of the channel. Clear trash, debris, and non-native vegetation by hand within easement boundaries. 	The use of rubber-tire equipment will be implemented. Maintenance activities revised to allow for additional removal techniques.
66	Santa Clara River Main Channel (PD 1538)	The channel clearing will involve mechanical removal of all vegetation within 20 feet from the slope lining along the entire reach.	Mechanically clear all vegetation within 15 feet from the levee slope lining along the entire reach	No change. (Standardized levee toe clearing to 15 feet.)
67	Bouquet Canyon Upper (PD's 1201, 802, 700B, & 625)	The channel clearing work will involve an alternating pattern of mechanical clearing of vegetation. Only one-half of the channel will be cleared each year. The other one-half of the channel will be cleared the following year. Channel clearing work will also include mechanical grading of sediment to train flows to the centerline of the channel. Outlet structures will be graded to drain each year.	 Mechanically clear all vegetation. Reach-clearing work will also include mechanical grading of sediment to train flows to the centerline of the reach. Outlet structures will be graded to drain each year. The preferred method would be to clear the vegetation on the left bank in even years and the right bank in odd years. If water is present on the scheduled bank, however, the work will proceed with the opposite bank. Clear trash, debris, and non-native vegetation by hand within easement boundaries. 	This reach has insufficient capacity. Structures will be inundated in high flow storm events. LACFCD would like the authority to remove all vegetation annually if shown necessary after further analyses.

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69	Canyon Middle (PD's 722, 773, 1365, 1065, & 451)	of the channel will be cleared each year. The other one- half of the channel will be cleared the following year. Channel clearing work will also include mechanical grading of sediment to train flows to the centerline of the channel. Outlet structures will be graded to drain each year.	Reach-clearing work will also include mechanical grading of sediment to train flows to the centerline of the reach. Outlet structures will be graded to drain each year. The preferred method would be to clear the vegetation on the left bank in even years and the right bank in odd years. If water is present on the scheduled bank, however; the work will proceed with the opposite bank. Clear trash, debris, and non-native vegetation by hand within easement boundaries.	This reach has insufficient capacity. Structures will be inundated in high flow storm events. LACFCD would like the authority to remove all vegetation annually if shown necessary after further analyses.
70	Canyon Lower (PD's 544 & 345)	Outlet structures will be graded to drain each year.	 The preferred method would be to clear the vegetation on the left bank in even years and the right bank in odd years. If water is present on the scheduled bank, however, the work will proceed with the opposite bank. Clear trash, debris, and non-native vegetation by hand within easement boundaries. 	This reach has insufficient capacity. Structures will be inundated in high flow storm events. LACFCD would like the authority to remove all vegetation annually if shown necessary after further analyses.
71	Santa Clara River Main Channel (PD 1946)	removal of all vegetation within 20 feet from the base of the slope lining along the entire reach.	within easement boundaries.	No change. (Standardized levee toe clearing to 15 feet.)
72	South Fork- SCR (Smizer Ranch M.C.I.)		 Hand clear vegetation in the invert. The tree canopy will remain, but with a clear "tunnel" path to convey flows. Clear trash, debris, and non-native vegetation by hand within easement boundaries. 	No change.
73	Wildwood Canyon Channel (PD T361) Main Channel Inlet	This reach is not within LACFCD easement and no work will be performed in it.	 Mechanical and hand clearing will be performed to keep reach clear of all vegetation. Clear trash, debris, and non-native vegetation by hand within easement boundaries. 	No change.

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74	Wildwood Canyon Channel (PD T361)	Mechanical or hand clearing work will be performed to keep reach clear of all vegetation. Impacts shall not exceed 0.02 acre.	This reach is not within LACFCD easement boundaries. Maintenance has been discontinued and the reach is removed from all regulatory permits.	No change.
75	South Fork- Santa Clara River (PD's 725, 916, 1041, &1300)	The channel clearing work will involve mechanical clearing and grading of all vegetation bank to bank from Lyons. Avenue to Orchard Village Road. Mechanical grading and clearing of just invasive vegetation from bank to bank will be performed from Orchard Village Road to the confluence with Newhall Creek. Mechanical clearing of all vegetation will be done along the base of the concrete levee from the confluence with Newhall Creek to Magic Mountain Parkway. A 20-foot-wide strip will be maintained clear along the entire length of the levee and 45 degree grading of low-flow channels from side outlets to the center of the watercourse will also be maintained clear of all vegetation to minimize pounding and blockage of side outlet flows. A centerline watercourse low flow 12-feet wide will be maintained clear of all vegetation and will be graded along the entire length in this reach. Two island areas supporting mature trees will be left in place as well as the riparian vegetation. Tree pruning of dead branches and limbs that could obstruct flow will be removed by hand labor. The vegetation (15.37 acres) that was allowed to remain in 1997 shall not be impacted during future maintenance activities.	 mechanically clear all vegetation mechanically clear and grade 10-foot wide entrainment channels from all outlets, extending to the channel centerline at a 45-degree angle. mechanically clear and grade a centerline watercourse low flow 12-feet wide. Clear trash, debris, and non-native vegetation by hand within easement boundaries. 	This reach has insufficient capacity. Structures will be inundated in high flow storm events. LACFCD would like the authority to remove all vegetation annually if shown necessary after further analyses.
	Pico Canyon (PD 813)	The channel clearing work will involve bank-to-bank removal of all vegetation using mechanical equipment.	 Mechanical and hand clearing will be performed to keep reach clear of all vegetation. Clear trash, debris, and non-native vegetation by hand within easement boundaries. 	No change.
77	Newhall Creek Outlet	Mechanical equipment will be used to maintain the reach clear of all vegetation. The vegetation (0.89 acre) that was allowed to remain in 1997 shall not be impacted during future maintenance activities. For this reach, the 0.89 acre of vegetation that was allowed to remain in 1997 must be located downstream of its confluence with Placerita Creek as all vegetation upstream of this confluence is cleared.	Mechanical and hand clearing will be performed to keep the low flow channel clear of all vegetation. Mature vegetation in the invert but above the low flow channel will remain. Clear trash, debris, and non-native vegetation by hand within easement boundaries.	No change.
78	Placerita Creek	Mechanical equipment will be used to maintain the reach clear of all vegetation. The vegetation (0.01 acre) that was allowed to remain in 1997 shall not be impacted during future maintenance activities.	 Mechanical and hand clearing will be performed to keep the low flow channel clear of all vegetation. Mature vegetation in the invert but above the low flow channel will remain. Clear trash, debris, and non-native vegetation by hand within easement boundaries. 	No change.

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79	South Fork- Santa Clara River (Valencia Boulevard Bridge Stabilizer)	Mechanical equipment will be used to maintain the reach clear of all vegetation. The vegetation (0.02 acre) that was allowed to remain in 1997 shall not be impacted during future maintenance activities.	Mechanical equipment will be used to maintain the reach clear of all vegetation, except the protected polygon. Clear trash, debris, and non-native vegetation by hand within easement boundaries.	No change.
80	South Fork- Santa Clara River (PD's 1947 & 1946)	The channel clearing work will involve mechanical removal of all vegetation within 20 feet from the toe of the concrete levee along the entire length. The vegetation (2.05 acres) that was allowed to remain in 1997 shall not be impacted during future maintenance activities.	Mechanically clear all vegetation within 15 feet from the levee slope lining along the entire reach. Clear trash, debris, and non-native vegetation by hand within easement boundaries.	No change. (Standardized levee toe clearing to 15 feet.)
82	Santa Clara River Main Channel (PD 2278)	Channel clearing work will involve mechanically removing all vegetation within 20 feet of the toe of the concrete levee along the entire reach. Impacts within this reach shall not exceed 0.40 acre.	Mechanically clear all vegetation within 15 feet from the levee slope lining along the entire reach. Allow native vegetation to establish in the remainder of the channel within LACFCD right-of-way. Clear trash, debris, and non-native vegetation by hand within easement boundaries.	Allow native vegetation to establish in the remainder of the channel within LACFCD right-of-way. (Standardized levee toe clearing to 15 feet.)
86	Violin Canyon Main Channel Outlet	Mechanical equipment will be used to maintain the reach clear of all vegetation. The vegetation (0.41 acre) that was allowed to remain in 1997 shall not be impacted during future maintenance activities.	 Mechanical equipment will be used to maintain the reach clear of all vegetation. Clear trash, debris, and non-native vegetation by hand within easement boundaries. 	No change.
87	Castaic- Old Road Drainage (CDR 525.021D) Outlet	The channel clearing work will involve hand cutting and clearing a 20-foot path from the riprap outlet to the main watercourse, Castaic Creek.	 Hand cut and clear a 20-foot path from the riprap outlet to the main watercourse, Castaic Creek. The tree canopy will remain, but with a clear "tunnel" path to convey flows. Clear trash, debris, and non-native vegetation by hand within easement boundaries. 	No change.
88	Hasley Canyon Upper (PD T1496)	The channel clearing work will involve mechanical equipment to remove all vegetation from bank to bank from Sharp Road to 755 feet upstream. From 330 feet downstream of Sharp Road to Sharp Road, hand clearing will be done. Impacts shall not exceed 0.42 acre (1,085 linear feet by 17 feet wide).	North of Chara Bood: Machanically aloar all vagatation	Recommendation: Remove all vegetation within 15 ft of the toe of the levee. Within area of identified capacity, from 15 ft to 39 ft from the toe of the levee, remove all nonnative vegetation and remove any newly established native or non-native trees. Allow native shrubs to remain and expand overtime and allow existing mature native trees to remain. All existing vegetation will be subject to maintenance practices allowed under existing permits (e.g. the "lollipopping" of individual trees, and the removal of invasive species).
89		The channel clearing work will involve hand labor clearing of alluvial sage scrub. The vegetation (0.02 acre) that was allowed to remain in 1997 shall not be impacted during future maintenance activities.	Hand clear all vegetation except mature oak trees. Clear trash, debris, and non-native vegetation by hand within easement boundaries.	No change.

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90	Hasley Canyon Lower (North Fork PD T1496)	The channel clearing work will involve hand clearing and mechanized removal of vegetation. Portions of the channel bottom will be denuded of vegetation while leaving the earthen bank vegetated, clusters of mature growth in the channel bottom will remain to the level it was left in November 1997. The vegetation (0.19 acre) that was allowed to remain in 1997 shall not be impacted during future maintenance activities.	Mechanically clear all vegetation Clear trash, debris, and non-native vegetation by hand within easement boundaries.	This reach has insufficient capacity. Structures will be inundated in high flow storm events. LACFCD would like the authority to remove all vegetation annually if shown necessary after further analyses.
91		The channel clearing work will involve removal of all the vegetation within the pipe and wire channel using hand labor, but the embankment vegetation will be left in place.	Hand clear all the vegetation within the pipe and wire channel The embankment vegetation will be left in place. Clear trash, debris, and non-native vegetation by hand within easement boundaries.	No change.
92	San Martinez Chiquito Canyon (North Fork) unnamed	The channel clearing work will involve removal of all the vegetation within the pipe and wire channel using hand labor, but the embankment vegetation will be left in place.	Hand clear all the vegetation within the pipe and wire channel The embankment vegetation will be left in place. Clear trash, debris, and non-native vegetation by hand within easement boundaries.	No change.
93	San Martinez Chiquito Canyon between Keningston Road and Val Verde Park	The channel clearing work will involve removal of all the vegetation within the pipe and wire channel using hand labor, but the embankment vegetation will be left in place.	Hand clear all the vegetation within the pipe and wire channel The embankment vegetation will be left in place. Clear trash, debris, and non-native vegetation by hand within easement boundaries.	No change.
94	San Martinez Chiquito Canyon between Val Verde Park to d/s of Madison Street	The channel clearing work will involve removal of all the vegetation within the pipe and wire channel using hand labor, but the embankment vegetation will be left in place.	Hand clear all the vegetation within the pipe and wire channel The embankment vegetation will be left in place. Clear trash, debris, and non-native vegetation by hand within easement boundaries.	No change.
95	Project No. 1224	The channel clearing work will involve removal of all vegetation within the pipe and wire channel using mechanical equipment, but the embankment vegetation will be left in place.	Hand clear all the vegetation within the pipe and wire channel The embankment vegetation will be left in place. Clear trash, debris, and non-native vegetation by hand within easement boundaries.	No change.
96	PD 1591, Calabasas	The channel clearing will involve hand clearing all vegetation from the inlet and outlet approaches to the box culvert under Vicasa Drive.	Hand clear all vegetation from the inlet and outlet approaches to the box culvert under Vicasa Drive, except in protected polygons. Clear trash, debris, and non-native vegetation by hand within easement boundaries.	No change.

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97	DD T1092	The channel clearing work will involve hand cutting and mechanized removal of all vegetation along the entire length of the levee at a width of 20 feet and clearing and grading 45-degree, 12-foot-wide low flows from the side outlets to the center of the main watercourse. The vegetation (1.17 acres) that was allowed to remain in 1997 shall not be impacted during future maintenance activities.	The reach clearing work will involve hand cutting and mechanized removal of all vegetation and trees along the entire length of the levee at a width of 15 feet and clearing and grading 45-degree, 12-foot-wide low flows from the side outlets to the center of the main watercourse. Clear trash, debris, and non-native vegetation by hand within easement boundaries.	No change. (Standardized levee toe clearing to 15 feet.)
98			 To the extent that storm flows do not keep the inlet free of vegetation, mechanical equipment will be used to keep the inlet clear of all vegetation. No regrowth will be allowed to remain. Clear trash, debris, and non-native vegetation by hand within easement boundaries. 	No change.
99	Kagel Canyon – Tujunga Wash	Hand clearing work will be performed to keep all vegetation clear in this reach.	Hand clear work all vegetation in this reach. Clear trash, debris, and non-native vegetation by hand within easement boundaries.	No change.
100	Dry Canyon, Calabasas Creek Inlet	The channel clearing work will involve hand clearing all vegetation at the channel inlet. Bank vegetation will be left in place.	Hand clear all vegetation Clear trash, debris, and non-native vegetation by hand within easement boundaries.	This reach has insufficient capacity. Structures will be inundated in high flow storm events. LACFCD would like the authority to remove all vegetation annually if shown necessary after further analyses.
101		addition vegetation will be deared the following year. In addition vegetation will be mechanically removed along a 12-foot path along the toe of the levee lining and 12-foot	 Mechanically clear vegetation in a 15-foot-wide path along the toe of both levee slopes. Mechanically clear and grade 10-foot wide entrainment channel from all outlets, extending to the centerline of the channel at a 45-degree angle. Allow native vegetation to establish in the remainder of the channel. Clear trash, debris, and non-native vegetation by hand within easement boundaries. 	 Not previously included in the 2005 Maintenance Plan. Leave all vegetation in the reach except for the levee toe and outlets. Standardized levee toe clearing to 15 feet. Standardized outlet entrainment channels to 10 feet wide.

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102	Violin Canyon (PD 2275)	Every year, all vegetation within 20 feet of the right bank slope lining will be mechanically removed. In addition, the vegetation will be mechanically removed, bank to bank, from the furthest downstream stabilizer (Station 14+32) to the concrete invert (Station 12+40).	Nechanically remove all vegetation within 15 feet of the toe of the right levee. Mechanically clear and grade 10-foot wide entrainment channels from all outlets, extending to the centerline of the channel at a 45-degree angle. Mature trees in the entrainment channel at the downstream outlet will be lollipopped instead of cleared. Mechanically remove vegetation, bank to bank, over the three drop structures, which are currently hidden from view by sediment. Initial effort: Remove 750 cubic yards of accumulated sediment from the three drop structures in order to expose them and provide flow velocity control. Subsequent years: Re-grade 200 cubic yards of sediment during subsequent years over the same footprint as the initial removal. The cleared drop structure areas will be used as pathways for equipment transport. Allow native vegetation to establish in the remainder of the channel within LACFCD right-of-way. Clear trash, debris, and non-native vegetation by hand within easement boundaries.	Not previously included in the 2005 Maintenance Plan. Chose to clear less than the Recommendation: Leave vegetation from the furthest downstream stabilizer (Station 14+32) to the concrete invert (Station 12+40) remaining. Clear over stabilizers. Allow native vegetation to establish in the remainder of the channel within LACFCD right-ofway. Standardized levee toe clearing to 15 feet. Standardized outlet entrainment channels to 10 feet wide.
103		The channel clearing work will involve an alternating pattern of mechanical clearing of vegetation. Only one-half of the channel will be cleared each year. The other one-half of the channel will be cleared the following year. Channel clearing work will also include mechanical grading of sediment to train flows to the centerline of the channel. Outlet structures will be graded to drain each year. If adequate surface water is present, surveys for the unarmored threespine stickleback are required prior to initiation of clearing activities.	Mechanically clear vegetation on a 15-foot wide path along the toe of both levee slopes. Clear all vegetation over the grouted riprap (Newhall Ranch Road bridge to 300 feet downstream). Initial effort: Remove 3,000 cubic yards of sediment over the grouted riprap (Newhall Ranch Road bridge to 300 feet downstream). Clear trash, debris, and non-native vegetation by hand within easement boundaries.	Not previously included in the 2005 Maintenance Plan. Chose to clear less than the Recommendation: Leave all vegetation in the reach except for the levee toe and outlets.
104	Castaic Creek (PD 2441 Unit 2)	The channel clearing will involve mechanized removal of all vegetation within 20 feet of the left bank side slope lining along the entire reach. In addition, grading to drain a 12-foot wide training channel from the tributary underground storm drains to the easement line will be prepared. The training channel will be at a 45-degree angle to the side slope lining.	of the levee at a 45-degree angle. Trees with a diameter-at- breast-height over four inches will be avoided. Light	Not previously included in the 2005 Maintenance Plan. Proposed maintenance is in compliance with the revised 2002 General Maintenance Plan for Castaic Creek and Hasley Canyon Drain prepared for Newhall Land. Allow native vegetation to establish in the remainder of the channel within LACFCD right-of-way. Standardized levee toe clearing to 15 feet. Standardized outlet entrainment channels to 10 feet wide.

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105	San Francisquito Canyon Channel (PD 2456)	The channel clearing will involve mechanized removal of all vegetation within 20 feet of the side slope lining along both banks throughout the entire reach. In addition, grade to drain a 20-foot wide training channel from the left bank outlet at station 7 + 34 to the easement line. The training channel will be at a 45 degree angle to the side slope lining. If surface water is present, then surveys for the unarmored threespine stickleback and arroyo toad are required prior to initiation of clearing activities. Additionally, whether or not surface water is present, a qualified toad biologist must be present during clearing activities to salvage any adult arroyo toads that may appear during the clearing activities.	 All activities will follow the Natural Rivers Management Plan. Those activities are summarized here. Hand clear all woody vegetation, including large trees, within a 15-foot-wide path along the toe of left bank's slope lining. Mechanically clear and grade a 10-foot wide entrainment channel from the outlet at Station 7+34, extending up to 60 feet from the toe of the levee at a 45-degree angle. Trees with a diameter-at-breast-height over four inches will be avoided. Light equipment such as a Caterpillar D-6 or equivalent may be used and will avoid ponded water. Allow native vegetation to establish in the remainder of the channel within LACFCD right-of-way. Clear trash, debris, and non-native vegetation by hand within easement boundaries. 	 Not previously included in the 2005 Maintenance Plan. All activities will follow the Natural Rivers Management Plan. Allow native vegetation to establish in the remainder of the channel within LACFCD right-of-way. Standardized levee toe clearing to 15 feet. Standardized outlet entrainment channels to 10 feet wide.
106	Castaic Drain Outlet	The channel clearing will involve mechanized removal of vegetation along 12-foot wide access path aligned along toe of east bank; install and maintain crushed aggregate base equipment access path.	This reach is not within LACFCD easement boundaries. Maintenance will not occur and the reach is to be removed from all regulatory permits.	This reach is not within LACFCD easement boundaries. Maintenance will not occur and the reach is to be removed from all regulatory permits.
107	The Old Road Channels	Mechanical equipment or hand labor will be used to clear all vegetation up to approximately 8 feet high from bank to bank within the 943-foot long soft bottom channel. If surface water is present, then surveys for the unarmored threespine stickleback and arroyo toad are required prior to initiation of clearing activities. Additionally, a qualified toad biologist must be present during clearing activities to salvage any adult arroyo toads that may appear during the clearing activities.	This reach is not within LACFCD easement boundaries. Maintenance will not occur and the reach is to be removed from all regulatory permits.	This reach is not within LACFCD easement boundaries. Maintenance will not occur and the reach is to be removed from all regulatory permits.
108	Pico Canyon (PD 2528)	The LACFCD will inspect and mechanically remove accumulated sediment, debris, and all the vegetation in the reach to ensure the proper functioning of the flood-control infrastructure. Weeds and grasses may be controlled by mowing or hand labor. The reach will be cleared annually to the same baseline condition as that approved for clearing activities.	 Mechanically remove accumulated sediment, debris, and all woody vegetation in the reach. Weeds and grasses may be controlled by mowing or hand labor. Clear trash, debris, and non-native vegetation by hand within easement boundaries. 	 Not previously included in the 2005 Maintenance Plan. No change.
109	Santa Clara River - South Bank West of Mcbean Parkway (MTD1510)	The LACFCD will mechanically remove all vegetation within a 15-foot-wide path along the toe of the reach's left bank slope lining for the entire reach (easement boundary is 327 feet) and will grade and clear a 10-foot-wide training channel at a 45-degree angle from the outlet up to 30 feet from the toe of the levee. LACFCD will clear trash and debris by hand outside of the impact areas but within easement boundaries.	 Mechanically remove all woody vegetation within a 15-foot-wide path along the toe of the left levee for the entire reach. Grade and clear a 10-foot-wide entrainment channel at a 45-degree angle from the outlet up to 30 feet from the toe of the levee. Trees in the entrainment channel at the downstream outlet will be lollipopped instead of cleared. Allow native vegetation to establish in the remainder of the channel within LACFCD right-of-way. Clear trash, debris, and non-native vegetation by hand within easement boundaries. 	 Not previously included in the 2005 Maintenance Plan. Mature trees in the outlet entrainment channel will be lollipopped, not cleared. Allow native vegetation to establish in the remainder of the channel within LACFCD right-of-way.

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110	Hasley Canyon Channel (PD2262)	The LACFCD will mechanically clear vegetation on alternating sections of the reach. Only one-half of the reach will be cleared each year. The right side of the reach will be cleared in odd years. The left side of the reach will be cleared in even years. After the initial clearing of vegetation, only mowing will be required. Reach-clearing work will also include mechanical grading of sediment to train flows to the centerline of the reach as well as the annual grading and clearing of a ten-foot-wide training channel at 45-degree angles from each outlet to the centerline of the reach. Additional clearing work and sediment re-grading will include within 37-feet downstream of each drop structure to form a ramp for equipment transportation up and over the drop structure. LACFCD will clear trash and debris by hand outside of the impact areas but within easement boundaries.	Mechanically clear all vegetation. Mechanically clear and grade 10-foot wide entrainment channels from all outlets, extending up to 30 feet from the toe of the levee at a 45-degree angle. Clear trash, debris, and non-native vegetation by hand	Not previously included in the 2005 Maintenance Plan. This reach has insufficient capacity. Structures will be inundated in high flow storm events. LACFCD would like the authority to remove all vegetation annually if shown necessary after further analyses.
			within easement houndaries	

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112	Ballona Creek	N/A	slopes down to the roots. Above the Ordinary High Water Mark (OHWM), mechanical equipment parked on the access road will be used as necessary. Below the OHWM or in the native marshes only hand and/or hand-held mechanical equipment will be used. Native vegetation that is dead or alive will not be cleared. Once vegetation is removed, root cavity voids will be backfilled using heavy equipment, positioned outside the OHWM. The sediment will be compacted, but not recontoured. Non-native weeds and grasses will be controlled by mowing or hand labor. The above-ground vegetation of a shrub will be removed then a stump grinder will remove the root ball. Upper Section (Centinela Avenue to 90 freeway): The native California bulrush (Schoenoplectus californicus) and cattail (Typha dominguensis) comprises the "freshwater marsh" and is located below the OHWM. Therefore, only hand and/or hand-held mechanical equipment will be used to maintain it. The freshwater marsh will be mowed down to six-inches above the height of the grouted riprap.	Not previously included in the 2005 Maintenance Plan.
113	Dominguez Channel	N/A	Non-native woody vegetation on the riverside levee slopes will be removed down to the roots below the access roads. The work to be performed includes the clearing of vegetation, debris, and brush growing on the reach right-ofway and in the riprap. Trimming and removal of non-native trees and shrubs will reduce the impact on flow in the reach as future growth occurs. No heavy equipment will be used in areas mapped as Coastal Salt Marsh (disturbed or not; generally, areas with pickleweed). These areas will be avoided and not impacted in order to prevent impacts to native species and potentially sensitive species. Clear trash, debris, and non-native vegetation by hand within easement boundaries.	Not previously included in the 2005 Maintenance Plan.

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114	Los Angeles River	N/A	 Non-native woody vegetation on the riverside levee slopes will be removed down to the roots annually below the access roads to the original baseline condition. Weeds and grasses may be controlled by mowing or hand labor. The work to be performed includes the clearing of vegetation, trash, and debris on the reach right-of-way and in the riprap. When root removal creates a cavity in the riprap, the cavity will be filled in and the soil compacted. Areas mapped as Coastal Salt Marsh (disturbed or not; generally, areas with pickleweed) will be avoided and not impacted in order to prevent impacts to native species and potentially sensitive species. The freshwater wetlands (formerly Arundo areas) in the upstream portion between Pacific Coast Highway and Anaheim Street will be maintained annually through mowing and trash removal. The sediment benches will not be removed. No herbicide will be applied to native vegetation. The monitoring biologist will identify locations with a New Zealand mudsnail population before work begins. If equipment comes into contact near the four 78-inch flapgate location, follow the 2008 Hazard Analysis and Critical Control Point (HACCP) Soft-Bottom Channel Maintenance Activities Within the Malibu and Santa Monica Canyon Watersheds. A debris fence at the base of the slope along the river will be 	• Not previously included in the 2005 Maintenance Plan.

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115	San Gabriel River	N/A	 The USACE Levee Certification Vegetation Removal Project will involve removing all invasive vegetation with roots greater than ½ inch. Vegetation will be removed by mechanical and manual methods on both banks annually until all non-compliant vegetation is removed. Weeds and grasses may be controlled by mowing or hand labor. Annual clearing of all woody vegetation will occur along the entire reach on both banks below the access roads using mechanical equipment placed on the access road. The work to be performed includes the clearing of vegetation, debris, and brush growing on the reach right-of-way and in the riprap. Trimming and removal of non-native trees and shrubs will reduce the impact on flow in the reach as future growth occurs. No heavy equipment will be used in areas mapped as Coastal Salt Marsh (disturbed or not; generally, areas with pickleweed). These areas will be avoided and not impacted in order to prevent impacts to native species and potentially sensitive species. Clear trash, debris, and non-native vegetation by hand within accomment houndaries. 	Not previously included in the 2005 Maintenance Plan.
116	Los Cerritos Channel	N/A	within easement houndaries Annual clearing of all woody vegetation will occur along the entire reach on both banks below the access roads using mechanical equipment placed on the access road. The work to be performed includes the clearing of vegetation, debris, and brush growing on the reach right-of- way and in the riprap. Trimming and removal of nonnative trees and shrubs will reduce the impact on flow in the reach as future growth occurs. No heavy equipment will be used in areas mapped as Coastal Salt Marsh (disturbed or not; generally, areas with pickleweed). These areas will be avoided and not impacted in order to prevent impacts to native species and potentially sensitive species. The portion of the reach on the left bank within Los Cerritos Wetlands boundaries is to be accessed using a designated road through Synergy Oil, LLC property. This road requires major improvement before usage. If this road cannot be improved, a barge will be used. Reach sections in the Cerritos Bahia Marina and downstream of the wetlands has not been improved by LACFCD and are not within county easement boundaries. Therefore, it will not be maintained. Clear trash, debris, and non-native vegetation by hand within easement boundaries	Not previously included in the 2005 Maintenance Plan.

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117	Centinela Creek	N/A	 Maintenance of this reach includes removal of invasive vegetation, repair of riprap levees, maintenance of outlet structures and mechanical equipment to remove sediment deposits. Clear trash, debris, and non-native vegetation by hand within easement boundaries. 	Not previously included in the 2005 Maintenance Plan.
118	Rustic Canyon	N/A	 All vegetation within the reach will be removed using hand tools. Mapped wetlands will be cleared by hand only and machinery will not enter these areas. Vegetation will be removed by hand using hand tools, such as weedeaters, hedge trimmers, chainsaws, hoes, pitch forks, loppers, machetes, and using a rubber-tracked skidsteer as necessary. Minor repair work to the wooden wall structures will be conducted as needed. These structural repairs may include filling voids with onsite material, repairing small portions of the wood walls, replacing support structures for the walls and appurtenant structures, and other miscellaneous items encountered. In order to move a skidsteer from one section of the channel to the next, temporary earthen ramps will be constructed at the drop structures with available onsite soils. The earthen ramps will be removed after vegetation is removed and earthen material will be redistributed evenly throughout the site. The site will be accessed through a private property, located at 14470 West Sunset Boulevard, Pacific Palisades, California 90272, that is also to be used as a staging area. Clear trash, debris, and non-native vegetation by hand within easement boundaries. 	Not previously included in the 2005 Maintenance Plan.

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119	Rivas Canyon	N/A	 All vegetation within the reach will be removed using hand tools. Mapped wetlands will be cleared by hand only and machinery will not enter these areas. Vegetation will be removed by hand using hand tools, such as weedeaters, hedge trimmers, chainsaws, hoes, pitch forks, loppers, machetes, and using a rubber-tracked skidsteer as necessary. Minor repair work to the wooden wall structures will be conducted as needed. These structural repairs may include filling voids with onsite material, repairing small portions of the wood walls, replacing support structures for the walls and appurtenant structures, and other miscellaneous items encountered. In order to move a skidsteer from one section of the channel to the next, temporary earthen ramps will be constructed at the drop structures with available onsite soils. The earthen ramps will be removed after vegetation is removed and earthen material will be redistributed evenly throughout the site. The site will be accessed through a private property, located at 14470 West Sunset Boulevard, Pacific Palisades, California 90272, that is also to be used as a staging area. Clear trash, debris, and non-native vegetation by hand within easement boundaries. 	Not previously included in the 2005 Maintenance Plan.
120	Jake's Way (PD 2496)	N/A	Hand and mechanical removal of all vegetation within 15 feet of the toe of slope along the bank protection structure lining throughout the entire reach. All rock rip rap including at the outfall structure and turnaround areas and the concrete lined side slope will be maintained in a vegetation-free state. Periodically remove any accumulated sediment, debris and vegetation in the vicinity of the outfall structure to allow water to drain. Periodic removal of ponded water that cause odor problems As-needed repairs to the outfall structure, rip-rap, concrete lined side slope, access road, invert ramp, turnaround area and other on-site structures Clear trash, debris, and non-native vegetation by hand within easement boundaries.	Not previously included in the 2005 Maintenance Plan.

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121	San Francisquito Creek (PD 2271)	N/A	 Maintenance will occur by means of hand and mechanical equipment to reduce the impact on flow in the channel and to maintain the structural integrity of the levee. The channel clearing will involve mechanized removal of all vegetation within 15 feet of the toe of slope along the bank protection structure lining throughout the entire reach. The rock rip rap for the outfall structure for storm drain MTD 1598 Unit 2, located adjacent to PD 2271's concrete lining, and the concrete lined side slope will also be maintained in a vegetation-free state. The storm drain requires periodic maintenance to remove any accumulated sediment, debris and vegetation in the vicinity of the outfall structure to allow water to drain. Grade to drain a 10-foot wide training channel from the outlet structure to the easement line and grade and clear a 10-foot wide path from the MTD's invert ramp to the toe of the PD's lining. Periodic removal of ponded water that cause odor problems and as-needed repairs to the outfall structure, rip-rap, concrete lined side slope, access road, invert ramp, turnaround area and other on-site structures to maintain their structural integrity. 	• Not previously included in the 2005 Maintenance Plan.