

FLOOD INSURANCE STUDY

FEDERAL EMERGENCY MANAGEMENT AGENCY

VOLUME 1 OF 9



LOS ANGELES COUNTY, CALIFORNIA AND INCORPORATED AREAS

COMMUNITY NAME	NUMBER	COMMUNITY NAME	NUMBER
AGOURA HILLS, CITY OF	065072	COMMERCE, CITY OF	060110
ALHAMBRA, CITY OF*	060095	COMPTON, CITY OF	060111
ARCADIA, CITY OF*	065014	COVINA, CITY OF*	065024
ARTESIA, CITY OF*	060097	CUDAHY, CITY OF	060657
AVALON, CITY OF	060098	CULVER CITY, CITY OF	060114
AZUSA, CITY OF	065015	DIAMOND BAR, CITY OF	060741
BALDWIN PARK, CITY OF*	060100	DOWNEY, CITY OF	060645
BELL, CITY OF*	060101	DUARTE, CITY OF*	065026
BELL GARDENS, CITY OF	060656	EL MONTE, CITY OF*	060658
BELLFLOWER, CITY OF	060102	EL SEGUNDO, CITY OF	060118
BEVERLY HILLS, CITY OF*	060655	GARDENA, CITY OF	060119
BRADBURY, CITY OF*	065017	GLENDALE, CITY OF	065030
BURBANK, CITY OF	065018	GLENDORA, CITY OF*	065031
CALABASAS, CITY OF	060749	HAWAIIAN GARDENS, CITY OF*	065032
CARSON, CITY OF	060107	HAWTHORNE, CITY OF*	060123
CERRITOS, CITY OF	060108	HERMOSA BEACH, CITY OF	060124
CLAREMONT, CITY OF*	060109	HIDDEN HILLS, CITY OF	060125

* No Special Flood Hazard Areas Identified

REVISED: June 2, 2021

FLOOD INSURANCE STUDY NUMBER

06037CV001F

Version Number 2.3.3.2



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COMMUNITY NAME	NUMBER	COMMUNITY NAME	NUMBER
HUNTINGTON PARK, CITY OF*	060126	PICO RIVERA, CITY OF	060148
INDUSTRY, CITY OF*	065035	POMONA, CITY OF*	060149
INGLEWOOD, CITY OF*	065036	RANCHO PALOS VERDES, CITY OF	060464
IRWINDALE, CITY OF*	060129	REDONDO BEACH, CITY OF	060150
LA CANADA FLINTRIDGE, CITY OF*	060669	ROLLING HILLS, CITY OF*	060151
LA HABRA HEIGHTS, CITY OF*	060701	ROLLING HILLS ESTATES, CITY OF*	065054
LA MIRADA, CITY OF	060131	ROSEMEAD, CITY OF*	060153
LA PUENTE*, CITY OF	065039	SAN DIMAS, CITY OF	060154
LA VERNE, CITY OF	060133	SAN FERNANDO, CITY OF	060628
LAKEWOOD, CITY OF	060130	SAN GABRIEL, CITY OF*	065055
LANCASTER, CITY OF	060672	SAN MARINO, CITY OF*	065057
LAWDALE, CITY OF*	060134	SANTA CLARITA, CITY OF	060729
LOMITA, CITY OF*	060135	SANTA FE SPRINGS, CITY OF	060158
LONG BEACH, CITY OF	060136	SANTA MONICA, CITY OF	060159
LOS ANGELES, CITY OF	060137	SIERRA MADRE, CITY OF*	065059
LOS ANGELES COUNTY UNINCORPORATED AREAS	065043	SIGNAL HILL, CITY OF*	060161
LYNWOOD, CITY OF	060635	SOUTH EL MONTE, CITY OF*	060162
MALIBU, CITY OF	060745	SOUTH GATE, CITY OF	060163
MANHATTAN BEACH, CITY OF	060138	SOUTH PASADENA, CITY OF*	065061
MAYWOOD, CITY OF*	060651	TEMPLE CITY, CITY OF*	060653
MONROVIA, CITY OF*	065046	TORRANCE, CITY OF	060165
MONTEBELLO, CITY OF	060141	VERNON, CITY OF*	060166
MONTEREY PARK, CITY OF*	065047	WALNUT, CITY OF*	065069
NORWALK, CITY OF	060652	WEST COVINA, CITY OF	060666
PALMDALE, CITY OF	060144	WEST HOLLYWOOD, CITY OF*	060720
PALOS VERDES ESTATES, CITY OF	060145	WESTLAKE VILLAGE, CITY OF	060744
PARAMOUNT, CITY OF	065049	WHITTIER, CITY OF	060169
PASADENA, CITY OF*	065050		

*No Special Flood Hazard Areas Identified

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Flood Insurance Rate Map (FIRM)

FLOOD INSURANCE STUDY REPORT LOS ANGELES COUNTY, CALIFORNIA

SECTION 1.0 – INTRODUCTION

1.1 The National Flood Insurance Program

The National Flood Insurance Program (NFIP) is a voluntary Federal program that enables property owners in participating communities to purchase insurance protection against losses from flooding. This insurance is designed to provide an insurance alternative to disaster assistance to meet the escalating costs of repairing damage to buildings and their contents caused by floods.

For decades, the national response to flood disasters was generally limited to constructing flood-control works such as dams, levees, sea-walls, and the like, and providing disaster relief to flood victims. This approach did not reduce losses nor did it discourage unwise development. In some instances, it may have actually encouraged additional development. To compound the problem, the public generally could not buy flood coverage from insurance companies, and building techniques to reduce flood damage were often overlooked.

In the face of mounting flood losses and escalating costs of disaster relief to the general taxpayers, the U.S. Congress created the NFIP. The intent was to reduce future flood damage through community floodplain management ordinances, and provide protection for property owners against potential losses through an insurance mechanism that requires a premium to be paid for the protection.

The U.S. Congress established the NFIP on August 1, 1968, with the passage of the National Flood Insurance Act of 1968. The NFIP was broadened and modified with the passage of the Flood Disaster Protection Act of 1973 and other legislative measures. It was further modified by the National Flood Insurance Reform Act of 1994 and the Flood Insurance Reform Act of 2004. The NFIP is administered by the Federal Emergency Management Agency (FEMA), which is a component of the Department of Homeland Security (DHS).

Participation in the NFIP is based on an agreement between local communities and the Federal Government. If a community adopts and enforces floodplain management regulations to reduce future flood risks to new construction and substantially improved structures in Special Flood Hazard Areas (SFHAs), the Federal Government will make flood insurance available within the community as a financial protection against flood losses. The community's floodplain management regulations must meet or exceed criteria established in accordance with Title 44 Code of Federal Regulations (CFR) Part 60.3, *Criteria for land Management and Use*.

SFHAs are delineated on the community's Flood Insurance Rate Maps (FIRMs). Under the NFIP, buildings that were built before the flood hazard was identified on the community's FIRMs are generally referred to as "Pre-FIRM" buildings. When the NFIP was created, the U.S. Congress recognized that insurance for Pre-FIRM buildings would be prohibitively expensive if the premiums were not subsidized by the Federal Government. Congress also recognized that most of these floodprone buildings were built by individuals who did not have sufficient knowledge of the flood hazard to make informed decisions. The NFIP requires that full actuarial rates reflecting the complete flood risk be charged on all buildings constructed or substantially improved on or after

the effective date of the initial FIRM for the community or after December 31, 1974, whichever is later. These buildings are generally referred to as “Post-FIRM” buildings.

1.2 Purpose of this Flood Insurance Study Report

This Flood Insurance Study (FIS) report revises and updates information on the existence and severity of flood hazards for the study area. The studies described in this report developed flood hazard data that will be used to establish actuarial flood insurance rates and to assist communities in efforts to implement sound floodplain management.

In some states or communities, floodplain management criteria or regulations may exist that are more restrictive than the minimum Federal requirements. Contact your State NFIP Coordinator to ensure that any higher State standards are included in the community’s regulations.

1.3 Jurisdictions Included in the Flood Insurance Study Project

This FIS Report covers the entire geographic area of Los Angeles County, California.

The jurisdictions that are included in this project area, along with the Community Identification Number (CID) for each community and the 8-digit Hydrologic Unit Codes (HUC-8) sub-basins affecting each, are shown in Table 1. The Flood Insurance Rate Map (FIRM) panel numbers that affect each community are listed. If the flood hazard data for the community is not included in this FIS Report, the location of that data is identified.

The location of flood hazard data for participating communities in multiple jurisdictions is also indicated in the table.

Jurisdictions that have no identified SFHAs as of the effective date of this study are indicated in the table. Changed conditions in these communities (such as urbanization or annexation) or the availability of new scientific or technical data about flood hazards could make it necessary to determine SFHAs in these jurisdictions in the future.

Table 1: Listing of NFIP Jurisdictions

Community	CID	HUC-8 Sub-Basin(s)	Located on FIRM Panel(s)	If Not Included, Location of Flood Hazard Data
Agoura Hills, City of	065072	18070104	06037C1241F 06037C1242F 06037C1243G 06037C1244F 06037C1261F 06037C1263F	
Alhambra, City of ¹	060095	18070105	06037C1635F ² 06037C1641F ² 06037C1645F 06037C1675F ²	
Arcadia, City of ¹	065014	18070105 18070106	06037C1400F 06037C1675F ² 06037C1700F	
Artesia, City of ¹	060097	18070106	06037C1839F 06037C1980F	

Table 1: Listing of NFIP Jurisdictions, continued

Community	CID	HUC-8 Sub-Basin(s)	Located on FIRM Panel(s)	If Not Included, Location of Flood Hazard Data
Avalon, City of	060098	18070107	06037C2202F 06037C2203F ² 06037C2204F 06037C2210F ²	
Azusa, City of	065015	18070106	06037C1415F 06037C1420F 06037C1700F	
Baldwin Park, City of ¹	060100	18070106	06037C1670F 06037C1675F ² 06037C1700F	
Bell, City of ¹	060101	18070105	06037C1805F 06037C1810F	
Bell Gardens, City of	060656	18070105	06037C1810F	
Bellflower, City of	060102	18070106	06037C1820F 06037C1840F 06037C1960F 06037C1980F	
Beverly Hills, City of ¹	060655	18070104	06037C1585F 06037C1595G 06037C1605F 06037C1611G	
Bradbury, City of ¹	065017	18070105 18070106	06037C1415F	
Burbank, City of	065018	18070105	06037C1328F 06037C1329F 06037C1330F 06037C1335F 06037C1337F 06037C1339F 06037C1340F ² 06037C1345F	
Calabasas, City of	060749	18070104 18070105	06037C1262F 06037C1263F 06037C1264G 06037C1267F 06037C1268F 06037C1269F 06037C1288G 06037C1527G 06037C1531F 06037C1532G	
Carson, City of	060107	18070105 18070106	06037C1795F 06037C1815F 06037C1935F 06037C1941G 06037C1942G 06037C1955F 06037C1961G	

Table 1: Listing of NFIP Jurisdictions, continued

Community	CID	HUC-8 Sub-Basin(s)	Located on FIRM Panel(s)	If Not Included, Location of Flood Hazard Data
Cerritos, City of	060108	18070106	06037C1839F 06037C1840F 06037C1843F 06037C1844F 06037C1980F 06037C2000F	
Claremont, City of ¹	060109	18070106 18070203	06037C1475F 06037C1750F	
Commerce, City of	060110	18070105	06037C1639F ² 06037C1643F ² 06037C1645F 06037C1810F 06037C1830F	
Compton, City of	060111	18070105 18070106	06037C1795F 06037C1815F 06037C1820F 06037C1955F	
Covina, City of ¹	065024	18070106	06037C1700F 06037C1725F	
Cudahy, City of	060657	18070105	06037C1805F 06037C1810F	
Culver City, City of	060114	18070104	06037C1595G 06037C1611G 06037C1613G 06037C1752G 06037C1760F	
Diamond Bar, City of	060741	18070106 18070203	06037C1725F 06037C1880F 06037C1900F ²	
Downey, City of	060645	18070105 18070106	06037C1810F 06037C1820F 06037C1829F 06037C1830F 06037C1837F 06037C1840F	
Duarte, City of ¹	065026	18070105 18070106	06037C1405F ² 06037C1410F ² 06037C1415F 06037C1420F 06037C1700F	
El Monte, City of ¹	060658	18070105 18070106	06037C1670F 06037C1675F ² 06037C1700F	
El Segundo, City of	060118	18070104 18070106	06037C1766G 06037C1767G ² 06037C1768G 06037C1769G 06037C1790F	

Table 1: Listing of NFIP Jurisdictions, continued

Community	CID	HUC-8 Sub-Basin(s)	Located on FIRM Panel(s)	If Not Included, Location of Flood Hazard Data
Gardena, City of	060119	18070106	06037C1790F 06037C1795F 06037C1930F 06037C1935F	
Glendale, City of ¹	065030	18070105	06037C1095F 06037C1125F ² 06037C1335F 06037C1345F 06037C1375F 06037C1610F 06037C1626F	
Glendora, City of	065031	18070106	06037C1420F 06037C1440F 06037C1445F 06037C1700F 06037C1725F	
Hawaiian Gardens City of ¹	065032	18070106	06037C1980F 06037C2000F	
Hawthorne, City of ¹	060123	18070106	06037C1767G ² 06037C1769G 06037C1790F	
Hermosa Beach, City of	060124	18070104 18070106	06037C1768G 06037C1769G 06037C1906G 06037C1907G	
Hidden Hills, City of	060125	18070104 18070105	06037C1266F 06037C1267F 06037C1268F	
Huntington Park, City of ¹	060126	18070105	06037C1805F	

Table 1: Listing of NFIP Jurisdictions, continued

Community	CID	HUC-8 Sub-Basin(s)	Located on FIRM Panel(s)	If Not Included, Location of Flood Hazard Data
Industry, City of ¹	065035	18070106	06037C1668F 06037C1670F 06037C1675F ² 06037C1695F 06037C1700F 06037C1725F 06037C1875F 06037C1880F	
Inglewood, City of ¹	065036	18070104 18070105 18070106	06037C1760F 06037C1776G 06037C1777G 06037C1780G 06037C1790F	
Irwindale, City of ¹	060129	18070105 18070106	06037C1415F 06037C1420F 06037C1675F ² 06037C1700F	
La Canada Flintidge, City of ¹	060669	18070105	06037C1375F	
La Habra Heights, City of ¹	060701	18070106	06037C1851F 06037C1853F 06037C1875F	
La Mirada, City of	060131	18070106	06037C1841F 06037C1842F 06037C1843F 06037C1844F 06037C1861F 06037C1875F 06037C2000F	
La Puente, City of ¹	065039	18070106	06037C1695F 06037C1700F	
La Verne, City of	060133	18070106	06037C1445F 06037C1475F 06037C1725F	
Lakewood, City of	060130	18070105 18070106	06037C1960F 06037C1980F 06037C2000F	
Lancaster, City of	060672	18090206	06037C0150F 06037C0175F 06037C0400F 06037C0405F 06037C0410F 06037C0415F 06037C0420F 06037C0442F 06037C0450F 06037C0462F 06037C0465F 06037C0475F	

Table 1: Listing of NFIP Jurisdictions, continued

Community	CID	HUC-8 Sub-Basin(s)	Located on FIRM Panel(s)	If Not Included, Location of Flood Hazard Data
Lawndale, City of ¹	060134	18070106	06037C1790F 06037C1930F	
Lomita, City of ¹	060135	18070106	06037C1940F 06037C1941G 06037C1943G	
Long Beach, City of	060136	18070105 18070106	06037C1815F 06037C1820F 06037C1955F 06037C1960F 06037C1961G 06037C1962F 06037C1963G 06037C1964G 06037C1966G ² 06037C1967G 06037C1968G 06037C1969G 06037C1980F 06037C1988G 06037C1990F 06037C2051G 06037C2052G 06037C2056G 06037C2057G 06037C2076G	
Los Angeles, City of	060137	18070103 18070104 18070105 18070106	06037C1025F ² , 06037C1033F ² , 06037C1034F, 06037C1040F, 06037C1045F, 06037C1067F, 06037C1069F, 06037C1075G, 06037C1086F, 06037C1087F ² , 06037C1088F, 06037C1089F, 06037C1095F, 06037C1125F ² , 06037C1266F, 06037C1267F, 06037C1269F, 06037C1275F, 06037C1280F, 06037C1285F, 06037C1288G, 06037C1290F, 06037C1295F, 06037C1305F, 06037C1310F, 06037C1315F, 06037C1320F ² ,	

Table 1: Listing of NFIP Jurisdictions, continued

Community	CID	HUC-8 Sub-Basin(s)	Located on FIRM Panel(s)	If Not Included, Location of Flood Hazard Data
Los Angeles, City of	060137	18070103 18070104 18070105 18070106	06037C1328F, 06037C1329F, 06037C1330F, 06037C1335F, 06037C1337F, 06037C1339F, 06037C1340F ² , 06037C1345F, 06037C1375F, 06037C1552G, 06037C1553G, 06037C1554F, 06037C1556F ² , 06037C1557F, 06037C1558F ² , 06037C1559F, 06037C1562G, 06037C1566G, 06037C1567G, 06037C1569G, 06037C1580F, 06037C1585F, 06037C1588G, 06037C1589G ² , 06037C1590G, 06037C1595G, 06037C1605F, 06037C1610F, 06037C1611G, 06037C1612G, 06037C1613G, 06037C1614G, 06037C1616G, 06037C1617G, 06037C1618G, 06037C1619G, 06037C1626F, 06037C1627F ² , 06037C1628F, 06037C1629F, 06037C1635F ² , 06037C1636G, 06037C1637F, 06037C1638G, 06037C1639F ² , 06037C1641F ² , 06037C1751G, 06037C1752G, 06037C1754G, 06037C1760F, 06037C1762G, 06037C1766G, 06037C1767G ² , 06037C1776G, 06037C1777G,	

Table 1: Listing of NFIP Jurisdictions, continued

Community	CID	HUC-8 Sub-Basin(s)	Located on FIRM Panel(s)	If Not Included, Location of Flood Hazard Data
Los Angeles, City of continued	060137	18070103 18070104 18070105 18070106	06037C1780G, 06037C1781G, 06037C1785G, 06037C1790F, 06037C1795F, 06037C1805F, 06037C1815F, 06037C1935F, 06037C1941G, 06037C1942G, 06037C1943G, 06037C1944G, 06037C1955F, 06037C1961G, 06037C1963G, 06037C2027G, 06037C2029G, 06037C2031G, 06037C2032G, 06037C2033G, 06037C2034G, 06037C2051G, 06037C2053G	
Los Angeles County, Unincorporated Areas	065043	18030003 18070102 18070103 18070104 18070105 18070106 18070107 18070203 18090206 18090208	06037C0025F ² 06037C0036F 06037C0040F 06037C0050F 06037C0075F 06037C0100F 06037C0125F 06037C0150F 06037C0175F 06037C0200F 06037C0225F 06037C0250F ² 06037C0275F 06037C0300F 06037C0325F 06037C0350F 06037C0365F 06037C0370F 06037C0375F 06037C0400F 06037C0410F 06037C0415F 06037C0420F 06037C0442F 06037C0444F 06037C0450F 06037C0462F 06037C0464F 06037C0465F 06037C0466F 06037C0468F 06037C0470F 06037C0475F 06037C0500F 06037C0525F 06037C0550F ²	

Table 1: Listing of NFIP Jurisdictions, continued

Community	CID	HUC-8 Sub-Basin(s)	Located on FIRM Panel(s)	If Not Included, Location of Flood Hazard Data
Los Angeles County, Unincorporated Areas	065043	18030003 18070102 18070103 18070104 18070105 18070106 18070107 18070203 18090206 18090208	06037C0575F 06037C0595G 06037C0600G 06037C0605G 06037C0610F 06037C0615G 06037C0620G 06037C0630F 06037C0635F 06037C0640G 06037C0645G 06037C0651F 06037C0652F ² 06037C0656F 06037C0657F 06037C0658F 06037C0659F 06037C0665F 06037C0670F 06037C0694F 06037C0700F 06037C0701F 06037C0702F 06037C0703F 06037C0704F 06037C0706F 06037C0710F 06037C0711F 06037C0713F 06037C0715F 06037C0720F 06037C0750F 06037C0775F 06037C0785G 06037C0791G 06037C0792G 06037C0793G 06037C0794G 06037C0800G 06037C0805G 06037C0810G 06037C0815G 06037C0830G 06037C0835G 06037C0840G 06037C0845G 06037C0855G 06037C0865G 06037C0875G 06037C0880G 06037C0885G 06037C0900G 06037C0905G 06037C0925G 06037C0950F 06037C0975F 06037C1000F 06037C1025F ² 06037C1030F	

Table 1: Listing of NFIP Jurisdictions, continued

Community	CID	HUC-8 Sub-Basin(s)	Located on FIRM Panel(s)	If Not Included, Location of Flood Hazard Data
Los Angeles County, Unincorporated Areas, continued	065043	18030003 18070102 18070103 18070104 18070105 18070106 18070107 18070203 18090206 18090208	06037C1031G 06037C1032G 06037C1033F ² 06037C1034F 06037C1040F 06037C1051G 06037C1067F 06037C1075G 06037C1086F 06037C1087F ² 06037C1088F 06037C1095F 06037C1100F ² 06037C1109F 06037C1125F ² 06037C1150F ² 06037C1175F ² 06037C1200F ² 06037C1225F ² 06037C1239G 06037C1240F ² 06037C1243G 06037C1244F 06037C1261F 06037C1262F 06037C1263F 06037C1264G 06037C1266F 06037C1267F 06037C1268F 06037C1269F 06037C1275F 06037C1288G 06037C1290F 06037C1339F 06037C1340F ² 06037C1375F 06037C1400F 06037C1405F ² 06037C1410F ² 06037C1415F 06037C1420F 06037C1430F 06037C1435F ² 06037C1440F 06037C1445F 06037C1475F 06037C1480F ² 06037C1485F 06037C1487G 06037C1490G ²	

Table 1: Listing of NFIP Jurisdictions, continued

Community	CID	HUC-8 Sub-Basin(s)	Located on FIRM Panel(s)	If Not Included, Location of Flood Hazard Data
Los Angeles County, Unincorporated Areas, continued	065043	18030003 18070102 18070103 18070104 18070105 18070106 18070107 18070203 18090206 18090208	06037C1491G 06037C1492G 06037C1502G 06037C1505F ² 06037C1506G 06037C1507G 06037C1508F ² 06037C1509F ² 06037C1511G 06037C1512G 06037C1516F 06037C1517G 06037C1526G 06037C1527G 06037C1528F 06037C1529G 06037C1531F 06037C1532G 06037C1533G 06037C1534F ² 06037C1536G 06037C1537G 06037C1541G 06037C1542G 06037C1551G 06037C1552G 06037C1553G 06037C1554F 06037C1561G 06037C1562G 06037C1580F 06037C1585F 06037C1590G 06037C1595G 06037C1613G 06037C1614G 06037C1637F 06037C1639F ² 06037C1641F ² 06037C1643F ² 06037C1645F 06037C1664F 06037C1665F 06037C1668F 06037C1670F 06037C1675F ² 06037C1695F 06037C1700F 06037C1725F	

Table 1: Listing of NFIP Jurisdictions, continued

Community	CID	HUC-8 Sub-Basin(s)	Located on FIRM Panel(s)	If Not Included, Location of Flood Hazard Data
Los Angeles County, Unincorporated Areas, continued	065043	18030003 18070102 18070103 18070104 18070105 18070106 18070107 18070203 18090206 18090208	06037C1750F 06037C1752G 06037C1754G 06037C1760F 06037C1767G 06037C1776G 06037C1777G 06037C1780G 06037C1785G 06037C1790F 06037C1795F 06037C1805F 06037C1815F 06037C1820F 06037C1829F 06037C1830F 06037C1835F 06037C1839F 06037C1840F 06037C1841F 06037C1842F 06037C1851F 06037C1861F 06037C1875F 06037C1880F 06037C1900F ² 06037C1935F 06037C1940F 06037C1941G 06037C1955F 06037C1980F 06037C2000F 06037C2031G 06037C2125F ² 06037C2150F ² 06037C2175F ² 06037C2200F ² 06037C2201F ² 06037C2202F 06037C2203F ² 06037C2204F 06037C2210F ² 06037C2215F ² 06037C2220F ² 06037C2250F ² 06037C2275F ² 06037C2300F ² 06037C2325F ² 06037C2350F ²	

Table 1: Listing of NFIP Jurisdictions, continued

Community	CID	HUC-8 Sub-Basin(s)	Located on FIRM Panel(s)	If Not Included, Location of Flood Hazard Data
Lynwood, City of	060635		06037C1805F 06037C1815F 06037C1820F	
Malibu, City of	060745	18070104	06037C1485F 06037C1491G 06037C1492G 06037C1511G 06037C1512G 06037C1513G 06037C1514G 06037C1516F 06037C1517G 06037C1518G 06037C1519G 06037C1536G 06037C1537G 06037C1538G 06037C1539G 06037C1541G 06037C1542G 06037C1543G 06037C1561G 06037C1562G	
Manhattan Beach, City of ¹	060138	18070104 18070106	06037C1768G 06037C1769G 06037C1907G	
Maywood, City of ¹	060651	18070105	06037C1805F 06037C1810F	
Monrovia, City of ¹	065046	18070105 18070106	06037C1400F 06037C1405F ² 06037C1415F 06037C1675F ² 06037C1700F	
Montebello, City of ¹	060141	18070105	06037C1645F 06037C1663F 06037C1664F 06037C1665F 06037C1810F 06037C1830F	
Monterey Park, City of ¹	065047	18070105	06037C1635F ² 06037C1641F ² 06037C1645F 06037C1663F 06037C1665F 06037C1675F ²	
Norwalk, City of	060652	18070106	06037C1837F 06037C1839F 06037C1840F 06037C1841F 06037C1843F	

Table 1: Listing of NFIP Jurisdictions, continued

Community	CID	HUC-8 Sub-Basin(s)	Located on FIRM Panel(s)	If Not Included, Location of Flood Hazard Data
Palmdale, City of	060144	18070102 18090206	06037C0400F 06037C0415F 06037C0420F 06037C0442F 06037C0444F 06037C0450F 06037C0462F 06037C0464F 06037C0465F 06037C0466F 06037C0468F 06037C0635F 06037C0645G 06037C0651F 06037C0652F ² 06037C0653F 06037C0654F 06037C0656F 06037C0657F 06037C0658F 06037C0659F 06037C0665F 06037C0670F 06037C0694F 06037C0700F 06037C0701F 06037C0702F 06037C0703F 06037C0704F 06037C0706F 06037C0710F 06037C0711F 06037C0713F	
Palos Verdes Estates, City of	060145	18070104 18070106	06037C1916H 06037C1917H 06037C1918H 06037C1919H 06037C1940F	
Paramount, City of	065049	18070105 18070106	06037C1815F 06037C1820F	
Pasadena, City of ¹	065050	18070105	06037C1125F ² 06037C1375F 06037C1400F 06037C1635F ²	
Pico Rivera, City of	060148	18070105 18070106	06037C1663F 06037C1664F 06037C1668F 06037C1829F 06037C1830F	

Table 1: Listing of NFIP Jurisdictions, continued

Community	CID	HUC-8 Sub-Basin(s)	Located on FIRM Panel(s)	If Not Included, Location of Flood Hazard Data
Pomona, City of ¹	060149	18070106 18070203	06037C1725F 06037C1750F	
Rancho Palos Verdes, City of ¹	060464	18070104 18070106	06037C1917H 06037C1918H 06037C1919H 06037C1940F 06037C1943G 06037C2006G 06037C2007G 06037C2026G 06037C2027G 06037C2031G	
Redondo Beach, City of	060150	18070104 18070106	06037C1769G, 06037C1790F, 06037C1907G, 06037C1909G, 06037C1928F, 06037C1930F	
Rolling Hills, City of ¹	060151	18070104 18070106	06037C1940F 06037C2026G 06037C2027G	
Rolling Hills Estates, City of ¹	065054	18070104 18070106	06037C1919H 06037C1940F	
Rosemead, City of ¹	060153	18070105	06037C1665F 06037C1675F ²	
San Dimas, City of	060154	18070106	06037C1440F 06037C1445F 06037C1725F	
San Fernando, City of ¹	060628	18070105	06037C1075G	
San Gabriel, City of ¹	065055	18070105	06037C1675F ²	
San Marino, City of ¹	065057	18070105	06037C1375F 06037C1400F 06037C1635F ² 06037C1675F ²	
Santa Clarita, City of	060729	18070102 18070105	06037C0805G 06037C0810G 06037C0815G 06037C0816G 06037C0817G 06037C0818G 06037C0819G 06037C0830G 06037C0835G 06037C0840G 06037C0845G 06037C1030F 06037C1031G 06037C1032G 06037C1034F 06037C1051G 06037C1075G	

Table 1: Listing of NFIP Jurisdictions, continued

Community	CID	HUC-8 Sub-Basin(s)	Located on FIRM Panel(s)	If Not Included, Location of Flood Hazard Data
Santa Fe Springs, City of	060158	18070106	06037C1829F 06037C1830F 06037C1835F 06037C1837F 06037C1839F 06037C1840F 06037C1841F 06037C1843F 06037C1844F	
Santa Monica, City of	060159	18070104	06037C1567G 06037C1569G 06037C1588G, 06037C1589G ² 06037C1590G 06037C1751G	
Sierra Madre, City of ¹	065059	18070105	06037C1400F	
Signal Hill, City of ¹	060161	18070105 18070106	06037C1960F 06037C1966G ² 06037C1967G	
South El Monte, City of ¹	060162	18070105 18070106	06037C1665F 06037C1670F 06037C1675F ²	
South Gate, City of	060163	18070105 18070106	06037C1805F 06037C1810F 06037C1815F 06037C1820F	
South Pasadena, City of ¹	065061	18070105	06037C1375F 06037C1635F ²	
Temple City, City of ¹	060653	18070105	06037C1675F ²	
Torrance, City of	060165	18070104 18070106	06037C1790F, 06037C1907G, 06037C1909G, 06037C1917H, 06037C1928F, 06037C1930F, 06037C1935F, 06037C1940F, 06037C1941G	
Vernon, City of ¹	060166	18070105	06037C1638G 06037C1639F ² 06037C1643F ² 06037C1805F 06037C1810F	
Walnut, City of ¹	065069	18070106	06037C1695F 06037C1725F	
West Covina, City of	060666	18070106	06037C1695F 06037C1700F 06037C1725F	
West Hollywood, City of	060720	18070104	06037C1585F 06037C1605F	

Table 1: Listing of NFIP Jurisdictions, continued

Community	CID	HUC-8 Sub-Basin(s)	Located on FIRM Panel(s)	If Not Included, Location of Flood Hazard Data
Westlake Village, City of	060744	18070104	06037C1239G 06037C1240F ² 06037C1241F 06037C1243G 06037C1502G 06037C1505F ²	
Whittier, City of	060169	18070105 18070106	06037C1664F 06037C1668F 06037C1670F 06037C1830F 06037C1835F 06037C1842F 06037C1851F 06037C1853F 06037C1861F 06037C1875F	

¹ No Special Flood Hazard Areas Identified

² Panel Not Printed

1.4 Considerations for using this Flood Insurance Study Report

The NFIP encourages State and local governments to implement sound floodplain management programs. To assist in this endeavor, each FIS Report provides floodplain data, which may include a combination of the following: 10-, 4-, 2-, 1-, and 0.2-percent annual chance flood elevations (the 1% annual chance flood elevation is also referred to as the Base Flood Elevation (BFE)); delineations of the 1% annual chance and 0.2% annual chance floodplains; and 1% annual chance floodway. This information is presented on the FIRM and/or in many components of the FIS Report, including Flood Profiles, Floodway Data tables, Summary of Non-Coastal Stillwater Elevations tables, and Coastal Transect Parameters tables (not all components may be provided for a specific FIS).

This section presents important considerations for using the information contained in this FIS Report and the FIRM, including changes in format and content. Figures 1, 2, and 3 present information that applies to using the FIRM with the FIS Report.

- Part or all of this FIS Report may be revised and republished at any time. In addition, part of this FIS Report may be revised by a Letter of Map Revision (LOMR), which does not involve republication or redistribution of the FIS Report. Refer to Section 6.5 of this FIS Report for information about the process to revise the FIS Report and/or FIRM.

It is, therefore, the responsibility of the user to consult with community officials by contacting the community repository to obtain the most current FIS Report components. Communities participating in the NFIP have established repositories of flood hazard data for floodplain management and flood insurance purposes. Community map repository addresses are provided in Table 31, “Map Repositories,” within this FIS Report.

- New FIS Reports are frequently developed for multiple communities, such as entire counties. A countywide FIS Report incorporates previous FIS Reports for individual communities and the unincorporated area of the county (if not jurisdictional) into a single document and supersedes those documents for the purposes of the NFIP.

The initial Countywide FIS Report for Los Angeles County became effective on September 26, 2008. Refer to Table 28 for information about subsequent revisions to the FIRMs.

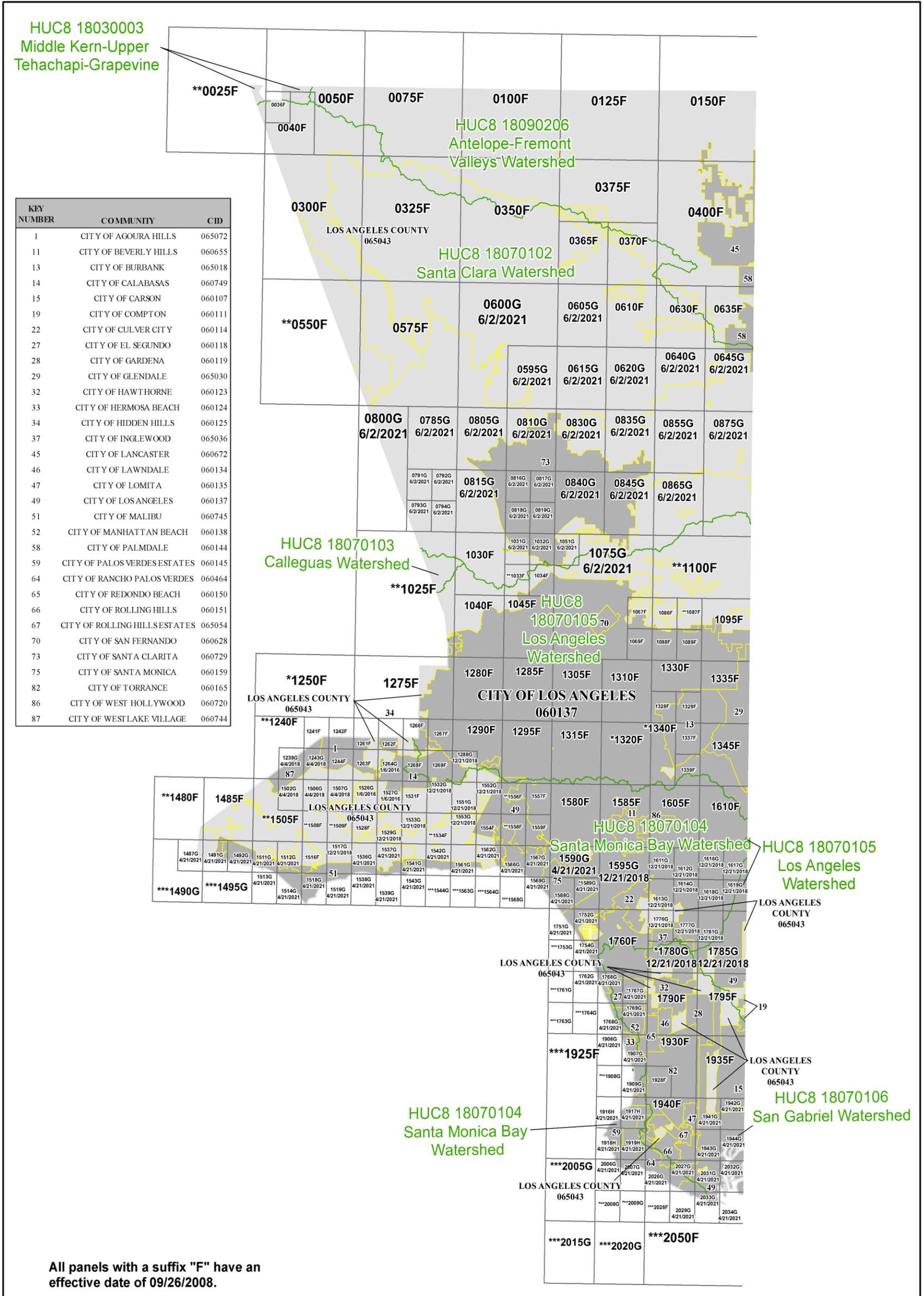
- Previous FIS Reports and FIRMs may have included levees that were accredited as reducing the risk associated with the 1% annual chance flood based on the information available and the mapping standards of the NFIP at that time. For FEMA to continue to accredit the identified levees, the levees must meet the criteria of the Code of Federal Regulations, Title 44, Section 65.10 (44 CFR 65.10), titled “Mapping of Areas Protected by Levee Systems.”

Since the status of levees is subject to change at any time, the user should contact the appropriate agency for the latest information regarding levees presented in Table 9 of this FIS Report. For levees owned or operated by the U.S. Army Corps of Engineers (USACE), information may be obtained from the USACE national levee database (nld.usace.army.mil) For all other levees, the user is encouraged to contact the appropriate local community.

- FEMA has developed a *Guide to Flood Maps* (FEMA 258) and online tutorials to assist users in accessing the information contained on the FIRM. These include how to read panels and step-by-step instructions to obtain specific information. To obtain this guide and other assistance in using the FIRM, visit the FEMA Web site at www.fema.gov/online-tutorials.

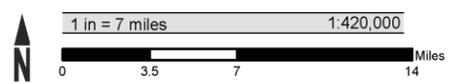
The FIRM Index in Figure 1 shows the overall FIRM panel layout within Los Angeles County, and also displays the panel number and effective date for each FIRM panel in the county. Other information shown on the FIRM Index includes community boundaries, watershed boundaries, and United States Geological Survey (USGS) Hydrologic Unit Code – 8 (HUC-8) codes.

Figure 1: FIRM Panel Index



KEY NUMBER	COMMUNITY	CID
1	CITY OF AGOURA HILLS	065072
11	CITY OF BEVERLY HILLS	060655
13	CITY OF BURBANK	065018
14	CITY OF CALABASAS	060749
15	CITY OF CARSON	060107
19	CITY OF COMPTON	060111
22	CITY OF CULVER CITY	060114
27	CITY OF EL SEGUNDO	060118
28	CITY OF GARDENA	060119
29	CITY OF GLENDALE	065030
32	CITY OF HAWTHORNE	060123
33	CITY OF HERMOSA BEACH	060124
34	CITY OF HIDDEN HILLS	060125
37	CITY OF INGLEWOOD	065036
45	CITY OF LANCASTER	060672
46	CITY OF LAWDALE	060134
47	CITY OF LOMITA	060135
49	CITY OF LOS ANGELES	060137
51	CITY OF MALIBU	060745
52	CITY OF MANHATTAN BEACH	060138
58	CITY OF PALMDALE	060144
59	CITY OF PALOS VERDES ESTATES	060145
64	CITY OF RANCHO PALOS VERDES	060464
65	CITY OF REDONDO BEACH	060150
66	CITY OF ROLLING HILLS	060151
67	CITY OF ROLLING HILLS ESTATES	065054
70	CITY OF SAN FERNANDO	060628
73	CITY OF SANTA CLARITA	060729
75	CITY OF SANTA MONICA	060159
82	CITY OF TORRANCE	060165
86	CITY OF WEST HOLLYWOOD	060720
87	CITY OF WEST LAKE VILLAGE	060744

All panels with a suffix "F" have an effective date of 09/26/2008.

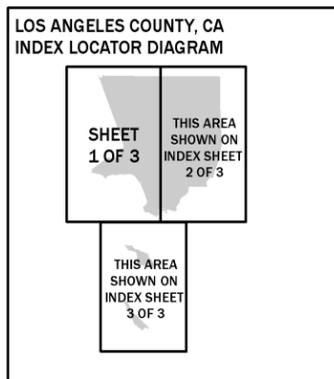


Map Projection:
Universal Transverse Mercator Zone 11 North;
North American Datum 1983

THE INFORMATION DEPICTED ON THIS MAP AND SUPPORTING DOCUMENTATION ARE ALSO AVAILABLE IN DIGITAL FORMAT AT [HTTPS://MSC.FEMA.GOV](https://MSC.FEMA.GOV)

SEE FLOOD INSURANCE STUDY FOR ADDITIONAL INFORMATION

- * PANEL NOT PRINTED - NO SPECIAL FLOOD HAZARD AREAS
- ** PANEL NOT PRINTED - AREA IN ZONE D
- *** PANEL NOT PRINTED - AREA OUTSIDE COUNTY BOUNDARY
- **** PANEL NOT PRINTED - NO SPECIAL FLOOD HAZARD AREAS EXCEPT CITY OF LOS ANGELES AREA IN ZONE D
- ***** PANEL NOT PRINTED - NO SPECIAL FLOOD HAZARD AREAS EXCEPT EDWARDS AIR FORCE BASE AREA IN ZONE D



NATIONAL FLOOD INSURANCE PROGRAM
FLOOD INSURANCE RATE MAP INDEX

LOS ANGELES COUNTY, CALIFORNIA and Incorporated Areas
SHEET 1 OF 3
PANELS PRINTED:

- 0036, 0040, 0050, 0075, 0100, 0125, 0150, 0300, 0325, 0350, 0365, 0370, 0375, 0400, 0575, 0595, 0600, 0605, 0610, 0615, 0620, 0630, 0635, 0640, 0645, 0785, 0791, 0792, 0793, 0794, 0800, 0805, 0810, 0815, 0816, 0817, 0818, 0819, 0830, 0835, 0840, 0845, 0855, 0865, 0875, 1030, 1031, 1032, 1034, 1040, 1045, 1051, 1067, 1069, 1075, 1086, 1088, 1089, 1095, 1239, 1241, 1242, 1243, 1244, 1261, 1262, 1263, 1264, 1266, 1267, 1268, 1269, 1275, 1280, 1285, 1288, 1290, 1295, 1305, 1310, 1315, 1328, 1329, 1330, 1335, 1337, 1339, 1345, 1485, 1487, 1490, 1491, 1492, 1502, 1506, 1507, 1511, 1512, 1513, 1514, 1516, 1517, 1518, 1519, 1526, 1527, 1528, 1529, 1531, 1532, 1533, 1536, 1537, 1538, 1539, 1541, 1542, 1543, 1551, 1552, 1553, 1554, 1557, 1559, 1561, 1562, 1566, 1567, 1569, 1580, 1588, 1590, 1595, 1605, 1610, 1611, 1612, 1613, 1614, 1616, 1617, 1585, 1618, 1619, 1751, 1752, 1754, 1760, 1766, 1768, 1769, 1776, 1777, 1780, 1781, 1785, 1790, 1795, 1906, 1907, 1909, 1916, 1917, 1918, 1919, 1928, 1930, 1935, 1940, 1941, 1942, 1943, 1944, 2006, 2007, 2025, 2026, 2027, 2029, 2031, 2032, 2033, 2034

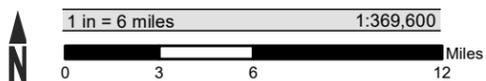
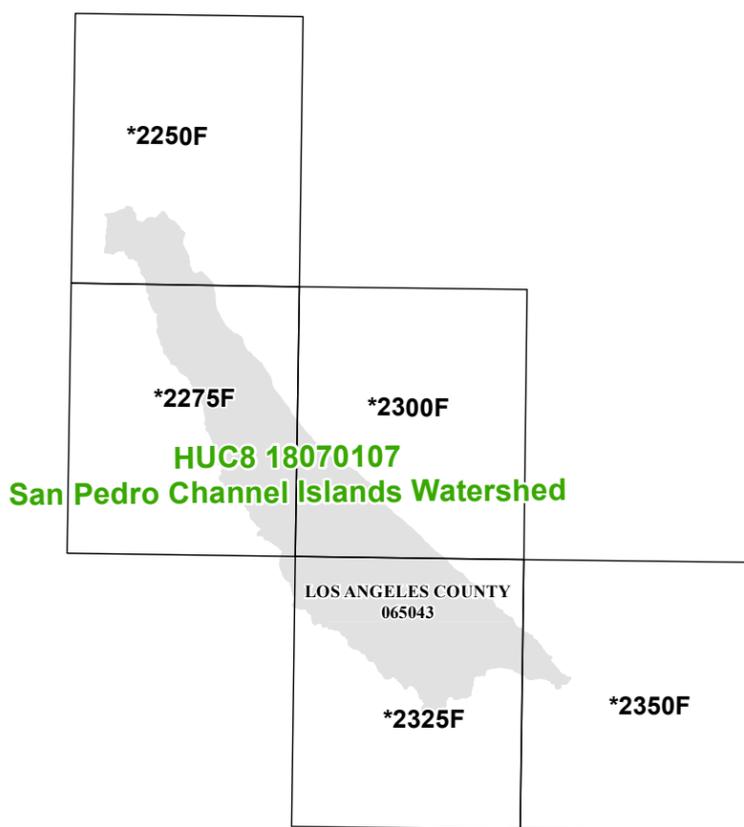
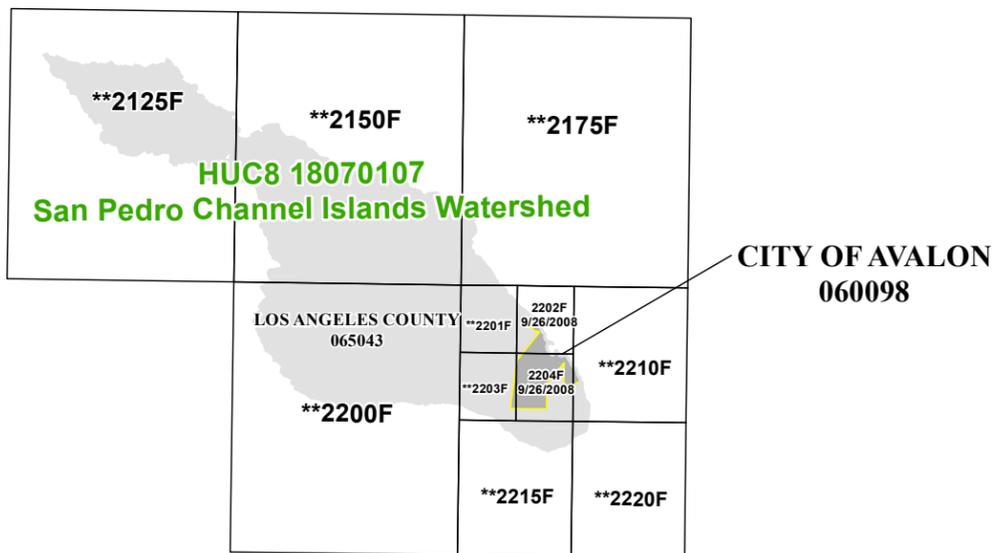


FEMA

MAP NUMBER
06037CIND1F

MAP REVISED
JUNE 2, 2021

Figure 1: FIRM Panel Index



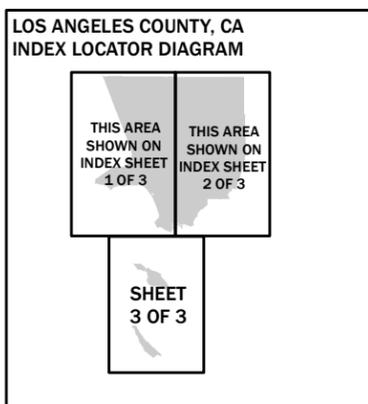
Map Projection:
Universal Transverse Mercator Zone 11 North;
North American Datum 1983

THE INFORMATION DEPICTED ON THIS MAP AND SUPPORTING DOCUMENTATION ARE ALSO AVAILABLE IN DIGITAL FORMAT AT [HTTPS://MSC.FEMA.GOV](https://MSC.FEMA.GOV)

SEE FLOOD INSURANCE STUDY FOR ADDITIONAL INFORMATION

*PANEL NOT PRINTED - NO SPECIAL FLOOD HAZARD AREAS

**PANEL NOT PRINTED - AREA ALL IN ZONE D



NATIONAL FLOOD INSURANCE PROGRAM
FLOOD INSURANCE RATE MAP INDEX

LOS ANGELES COUNTY, CALIFORNIA and Incorporated Areas
SHEET 3 OF 3

PANELS PRINTED:
2202, 2204



MAP NUMBER
06037CIND3F
MAP REVISED
JUNE 2, 2021

Each FIRM panel may contain specific notes to the user that provide additional information regarding the flood hazard data shown on that map. However, the FIRM panel does not contain enough space to show all the notes that may be relevant in helping to better understand the information on the panel. Figure 2 contains the full list of these notes.

Figure 2: FIRM Notes to Users

NOTES TO USERS

For information and questions about this Flood Insurance Rate Map (FIRM), available products associated with this FIRM, including historic versions, the current map date for each FIRM panel, how to order products, or the National Flood Insurance Program (NFIP) in general, please call the FEMA Map Information eXchange at 1-877-FEMA-MAP (1-877-336-2627) or visit the FEMA Flood Map Service Center website at <http://msc.fema.gov>. Available products may include previously issued Letters of Map Change, a Flood Insurance Study Report, and/or digital versions of this map. Many of these products can be ordered or obtained directly from the website.

Communities annexing land on adjacent FIRM panels must obtain a current copy of the adjacent panel as well as the current FIRM Index. These may be ordered directly from the Flood Map Service Center at the number listed above.

For community and countywide map dates, refer to Table 28 in this FIS Report.

To determine if flood insurance is available in the community, contact your insurance agent or call the National Flood Insurance Program at 1-800-638-6620.

The map is for use in administering the NFIP. It may not identify all areas subject to flooding, particularly from local drainage sources of small size. Consult the community map repository to find updated or additional flood hazard information.

BASE FLOOD ELEVATIONS: For more detailed information in areas where Base Flood Elevations (BFEs) and/or floodways have been determined, consult the Flood Profiles and Floodway Data and/or Summary of Stillwater Elevations tables within this FIS Report. Use the flood elevation data within the FIS Report in conjunction with the FIRM for construction and/or floodplain management.

Coastal Base Flood Elevations shown on the map apply only landward of 0.0' North American Vertical Datum of 1988 (NAVD88). Coastal flood elevations are also provided in the Coastal Transect Parameters table in the FIS Report for this jurisdiction. Elevations shown in the Coastal Transect Parameters table should be used for construction and/or floodplain management purposes when they are higher than the elevations shown on the FIRM.

FLOODWAY INFORMATION: Boundaries of the floodways were computed at cross sections and interpolated between cross sections. The floodways were based on hydraulic considerations with regard to requirements of the National Flood Insurance Program. Floodway widths and other pertinent floodway data are provided in the FIS Report for this jurisdiction.

FLOOD CONTROL STRUCTURE INFORMATION: Certain areas not in Special Flood Hazard Areas may be protected by flood control structures. Refer to Section 4.3 "Non-Levee Flood Protection Measures" of this FIS Report for information on flood control structures for this jurisdiction.

Figure 2: FIRM Notes to Users, continued

PROJECTION INFORMATION: The projection used in the preparation of the map was Universal Transverse Mercator (UTM) Zone 11N. The horizontal datum was NAD83, GRS1980 spheroid. Differences in datum, spheroid, projection or State Plane zones used in the production of FIRMs for adjacent jurisdictions may result in slight positional differences in map features across jurisdiction boundaries. These differences do not affect the accuracy of the FIRM.

ELEVATION DATUM: Flood elevations on the FIRM are referenced to the North American Vertical Datum of 1988. These flood elevations must be compared to structure and ground elevations referenced to the same vertical datum. For information regarding conversion between the National Geodetic Vertical Datum of 1929 and the North American Vertical Datum of 1988, visit the National Geodetic Survey website at <http://www.ngs.noaa.gov/>.

Local vertical monuments may have been used to create the map. To obtain current monument information, please contact the appropriate local community listed in Table 31 of this FIS Report.

BASE MAP INFORMATION: Base map information shown on this FIRM was derived from multiple sources. Vector base map data was provided by the Los Angeles County Department of Public Works and the Los Angeles County GIS Department. Digital ortho imagery was collected by the U.S. Department of Agriculture National Agriculture Imagery Program (NAIP). This imagery was flown in 2014 and was produced with a 1-meter ground sample distance. For information about base maps, refer to Section 6.2 “Base Map” in this FIS Report.

The map reflects more detailed and up-to-date stream channel configurations than those shown on the previous FIRM for this jurisdiction. The floodplains and floodways that were transferred from the previous FIRM may have been adjusted to conform to these new stream channel configurations. As a result, the Flood Profiles and Floodway Data tables may reflect stream channel distances that differ from what is shown on the map.

Corporate limits shown on the map are based on the best data available at the time of publication. Because changes due to annexations or de-annexations may have occurred after the map was published, map users should contact appropriate community officials to verify current corporate limit locations.

NOTES FOR FIRM INDEX

REVISIONS TO INDEX: As new studies are performed and FIRM panels are updated within Los Angeles County, California, corresponding revisions to the FIRM Index will be incorporated within the FIS Report to reflect the effective dates of those panels. Please refer to Table 28 of this FIS Report to determine the most recent FIRM revision date for each community. The most recent FIRM panel effective date will correspond to the most recent index date.

ATTENTION: The corporate limits shown on this FIRM Index are based on the best information available at the time of publication. As such, they may be more current than those shown on FIRM panels issued before June 2, 2021.

Figure 2: FIRM Notes to Users, continued

SPECIAL NOTES FOR SPECIFIC FIRM PANELS

This Notes to Users section was created specifically for Los Angeles County, California, effective June 2, 2021.

ACCREDITED LEVEE: Check with your local community to obtain more information, such as the estimated level of protection provided (which may exceed the 1-percent-annual-chance level) and Emergency Action Plan, on the levee system(s) shown as providing protection for areas on this panel. To mitigate flood risk in residual risk areas, property owners and residents are encouraged to consider flood insurance and floodproofing or other protective measures. For more information on flood insurance, interested parties should visit www.fema.gov/national-flood-insurance-program.

FLOOD RISK REPORT: A Flood Risk Report (FRR) may be available for many of the flooding sources and communities referenced in this FIS Report. The FRR is provided to increase public awareness of flood risk by helping communities identify the areas within their jurisdictions that have the greatest risks. Although non-regulatory, the information provided within the FRR can assist communities in assessing and evaluating mitigation opportunities to reduce these risks. It can also be used by communities developing or updating flood risk mitigation plans. These plans allow communities to identify and evaluate opportunities to reduce potential loss of life and property. However, the FRR is not intended to be the final authoritative source of all flood risk data for a project area; rather, it should be used with other data sources to paint a comprehensive picture of flood risk.

Each FIRM panel contains an abbreviated legend for the features shown on the maps. However, the FIRM panel does not contain enough space to show the legend for all map features. Figure 3 shows the full legend of all map features. Note that not all of these features may appear on the FIRM panels in Los Angeles County.

Figure 3: Map Legend for FIRM

SPECIAL FLOOD HAZARD AREAS: *The 1% annual chance flood, also known as the base flood or 100-year flood, has a 1% chance of happening or being exceeded each year. Special Flood Hazard Areas are subject to flooding by the 1% annual chance flood. The Base Flood Elevation is the water surface elevation of the 1% annual chance flood. The floodway is the channel of a stream plus any adjacent floodplain areas that must be kept free of encroachment so that the 1% annual chance flood can be carried without substantial increases in flood heights. See note for specific types. If the floodway is too narrow to be shown, a note is shown.*



Special Flood Hazard Areas subject to inundation by the 1% annual chance flood (Zones A, AE, AH, AO, AR, A99, V and VE)

- Zone A The flood insurance rate zone that corresponds to the 1% annual chance floodplains. No base (1% annual chance) flood elevations (BFEs) or depths are shown within this zone.
- Zone AE The flood insurance rate zone that corresponds to the 1% annual chance floodplains. Base flood elevations derived from the hydraulic analyses are shown within this zone, either at cross section locations or as static whole-foot elevations that apply throughout the zone.
- Zone AH The flood insurance rate zone that corresponds to the areas of 1% annual chance shallow flooding (usually areas of ponding) where average depths are between 1 and 3 feet. Whole-foot BFEs derived from the hydraulic analyses are shown at selected intervals within this zone.
- Zone AO The flood insurance rate zone that corresponds to the areas of 1% annual chance shallow flooding (usually sheet flow on sloping terrain) where average depths are between 1 and 3 feet. Average whole-foot depths derived from the hydraulic analyses are shown within this zone.
- Zone AR The flood insurance rate zone that corresponds to areas that were formerly protected from the 1% annual chance flood by a flood control system that was subsequently decertified. Zone AR indicates that the former flood control system is being restored to provide protection from the 1% annual chance or greater flood.
- Zone A99 The flood insurance rate zone that corresponds to areas of the 1% annual chance floodplain that will be protected by a Federal flood protection system where construction has reached specified statutory milestones. No base flood elevations or flood depths are shown within this zone.
- Zone V The flood insurance rate zone that corresponds to the 1% annual chance coastal floodplains that have additional hazards associated with storm waves. Base flood elevations are not shown within this zone.
- Zone VE Zone VE is the flood insurance rate zone that corresponds to the 1% annual chance coastal floodplains that have additional hazards associated with storm waves. Base flood elevations derived from the coastal analyses are shown within this zone as static whole-foot elevations that apply throughout the zone.



Regulatory Floodway determined in Zone AE.

Figure 3: Map Legend for FIRM, continued

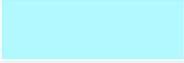
  <p>FLOOD INSURANCE IS NOT AVAILABLE FOR STRUCTURES NEWLY BUILT OR SUBSTANTIALLY IMPROVED ON OR AFTER APRIL 8, 1987, IN THE DESIGNATED COLORADO RIVER FLOODWAY</p>	<p>Non-encroachment zone (see Section 2.4 of this FIS Report for more information)</p> <p>The Colorado River Floodway was established by Congress in the Colorado River Floodway Protection Act of 1986, Public Law 99-450 (100 Statute 1129). The Act imposes certain restrictions within the Floodway.</p>
<p>OTHER AREAS OF FLOOD HAZARD</p>	
  	<p>Shaded Zone X: Areas of 0.2% annual chance flood hazards and areas of 1% annual chance flood hazards with average depths of less than 1 foot or with drainage areas less than 1 square mile.</p> <p>Future Conditions 1% Annual Chance Flood Hazard – Zone X: The flood insurance rate zone that corresponds to the 1% annual chance floodplains that are determined based on future-conditions hydrology. No base flood elevations or flood depths are shown within this zone.</p> <p>Area with Reduced Flood Risk due to Levee: Areas where an accredited levee, dike, or other flood control structure has reduced the flood risk from the 1% annual chance flood. See Notes to Users for important information.</p>
<p>OTHER AREAS</p>	
 <div style="border: 1px solid black; padding: 2px; display: inline-block;">NO SCREEN</div>	<p>Zone D (Areas of Undetermined Flood Hazard): The flood insurance rate zone that corresponds to unstudied areas where flood hazards are undetermined, but possible.</p> <p>Unshaded Zone X: Areas of minimal flood hazard.</p>
<p>FLOOD HAZARD AND OTHER BOUNDARY LINES</p>	
 <p>(ortho) (vector)</p>  	<p>Flood Zone Boundary (white line on ortho-photography-based mapping; gray line on vector-based mapping)</p> <p>Limit of Study</p> <p>Jurisdiction Boundary</p> <p>Limit of Moderate Wave Action (LiMWA): Indicates the inland limit of the area affected by waves greater than 1.5 feet</p>
<p>GENERAL STRUCTURES</p>	
<p>-----</p> <p><i>Aqueduct</i> <i>Channel</i> <i>Culvert</i> <i>Storm Sewer</i></p>	<p>Channel, Culvert, Aqueduct, or Storm Sewer</p>

Figure 3: Map Legend for FIRM, continued

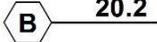
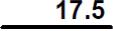
 <p>Dam Jetty Weir</p>	<p>Dam, Jetty, Weir</p>
	<p>Levee, Dike or Floodwall</p>
 <p>Bridge</p>	<p>Bridge</p>
<p>COASTAL BARRIER RESOURCES SYSTEM (CBRS) AND OTHERWISE PROTECTED AREAS (OPA): <i>CBRS areas and OPAs are normally located within or adjacent to Special Flood Hazard Areas. See Notes to Users for important information.</i></p>	
 <p>CBRS AREA 09/30/2009</p>	<p>Coastal Barrier Resources System Area: Labels are shown to clarify where this area shares a boundary with an incorporated area or overlaps with the floodway.</p>
 <p>OTHERWISE PROTECTED AREA 09/30/2009</p>	<p>Otherwise Protected Area</p>
<p>REFERENCE MARKERS</p>	
 <p>22.0</p>	<p>River mile Markers</p>
<p>CROSS SECTION & TRANSECT INFORMATION</p>	
 <p>20.2</p>	<p>Lettered Cross Section with Regulatory Water Surface Elevation (BFE)</p>
 <p>21.1</p>	<p>Numbered Cross Section with Regulatory Water Surface Elevation (BFE)</p>
 <p>17.5</p>	<p>Unlettered Cross Section with Regulatory Water Surface Elevation (BFE)</p>
	<p>Coastal Transect</p>
<p>Profile Baseline: Indicates the modeled flow path of a stream and is shown on FIRM panels for all valid studies with profiles or otherwise established base flood elevation.</p> <p>Coastal Transect Baseline: Used in the coastal flood hazard model to represent the 0.0-foot elevation contour and the starting point for the transect and the measuring point for the coastal mapping.</p>	

Figure 3: Map Legend for FIRM, continued

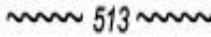
	Base Flood Elevation Line (shown for flooding sources for which no cross sections or profile are available)
ZONE AE (EL 16)	Static Base Flood Elevation value (shown under zone label)
ZONE AO (DEPTH 2)	Zone designation with Depth
ZONE AO (DEPTH 2) (VEL 15 FPS)	Zone designation with Depth and Velocity
BASE MAP FEATURES	
	River, Stream or Other Hydrographic Feature
	Interstate Highway
	U.S. Highway
	State Highway
	County Highway
<u>MAPLE LANE</u>	Street, Road, Avenue Name, or Private Drive if shown on Flood Profile
	Railroad
	Horizontal Reference Grid Line
	Horizontal Reference Grid Ticks
	Secondary Grid Crosshairs
Land Grant	Name of Land Grant
7	Section Number
R. 43 W. T. 22 N.	Range, Township Number
⁴² 76 ⁰⁰⁰ mE	Horizontal Reference Grid Coordinates (UTM)
365000 FT	Horizontal Reference Grid Coordinates (State Plane)
80° 16' 52.5"	Corner Coordinates (Latitude, Longitude)

Table 2: Flooding Sources Included in this FIS Report

Flooding Source	Community	Downstream Limit	Upstream Limit	HUC-8 Sub-Basin(s)	Length (mi) (streams or coastlines)	Area (mi ²) (estuaries or ponding)	Floodway (Y/N)	Zone shown on FIRM	Date of Analysis
Acton Canyon	Los Angeles County	Confluence with Santa Clara River	0.6 miles upstream of Aliso Street	18070102	1.8	—	Y	AE	2015
Agua Amarge Canyon Creek	City of Palos Verdes Estates	—	—	18070104	0.7	—	N	A	—
Agua Dulce Canyon Creek	Los Angeles County	Confluence with Santa Clara River	Approximately 0.5 miles upstream of Schaefer Rd	18070102	3.2	—	N	AE	2015
Agua Dulce Canyon Creek	Los Angeles County	Approximately 0.5 miles upstream of Schaefer Rd	Approximately 3400 feet upstream of Schaefer Rd	18070102	0.13	—	N	A	2015
Agua Dulce Canyon Creek	Los Angeles County	Approximately 3400 feet upstream of Schaefer Rd	Approximately 2000 feet upstream of Sierra Vista Drive	18070102	4.7	—	Y	AE	2015
Agua Dulce Canyon Creek	Los Angeles County	Approximately 1000 feet upstream of Anthony Rd	Approximately 250 feet upstream of Hierba Rd	18070102	0.2	—	N	A	2015
Agua Dulce Canyon Creek Lateral	Los Angeles County	Confluence with Agua Dulce Canyon Creek	Approximately 900 feet upstream of confluence with Agua Dulce Canyon Creek	18070102	0.2	—	N	AE	2008
Alamitos Bay	City of Long Beach	—	—	18070106	1.9	—	N	A	—
Aliso Canyon Creek	Los Angeles County	Confluence with Santa Clara River	Approximately 2.1 miles upstream of W Avenue Y8	18070102	3.1	—	N	AE	2015

Table 2: Flooding Sources Included in this FIS Report, continued

Flooding Source	Community	Downstream Limit	Upstream Limit	HUC-8 Sub-Basin(s)	Length (mi) (streams or coastlines)	Area (mi ²) (estuaries or ponding)	Floodway (Y/N)	Zone shown on FIRM	Date of Analysis
Amargosa Creek	City of Lancaster, Los Angeles County, City of Palmdale	—	—	18090206	13.8	—	N	A, AH, AO	1985
Amargosa Creek	Los Angeles County, City of Palmdale	—	—	18090206	6.4	—	N	AE	1985
Amargosa Creek	Los Angeles County, City of Palmdale	—	—	18090206	7.2	—	N	A, AO	1985
Amargosa Creek Tributary	City of Lancaster	—	—	18090206	0.1	—	N	A	1979
Anaverde Creek	City of Palmdale	—	—	18090206	3.5	—	Y	AE	1985
Anaverde Creek	City of Palmdale	—	—	18090206	2.0	—	N	A	1985
Arrastre Canyon Creek	Los Angeles County	—	—	18070102	1.0	—	N	A	1979
Arroyo Calabasas	City of Los Angeles	—	—	18070105	0.1	—	N	AE	—
Arroyo San Miguel	City of Whittier	—	—	18070106	0.1	—	N	A	1978
Arroyo Sequit	Los Angeles County	—	—	18070104	2.3	—	N	A	—
Avalon Bay	City of Avalon	—	—	18070107	0.4	—	N	AE	—
Avalon Canyon	City of Avalon	At confluence with Pacific Ocean	0.9 miles upstream of confluence with Pacific Ocean	18070107	0.9	—	N	AE	—
Back Channel	City of Long Beach	—	—	18070106	0.9	—	N	AE	—
Ballona Creek	Culver City, City of; Los Angeles, City of; Los Angeles County, Unincorporated Areas	—	—	18070104	5.8	—	N	A,AE	1978
Ballona Creek Watershed	City of Culver City, City of Inglewood, City of Los Angeles, Los Angeles County	—	—	18070104 18070105	*	—	N	AE	2016

Table 2: Flooding Sources Included in this FIS Report, continued

Flooding Source	Community	Downstream Limit	Upstream Limit	HUC-8 Sub-Basin(s)	Length (mi) (streams or coastlines)	Area (mi ²) (estuaries or ponding)	Floodway (Y/N)	Zone shown on FIRM	Date of Analysis
Bar Creek	City of Diamond Bar	—	—	18070106	0.1	—	N	A, AO	—
Bee Canyon (North)	Los Angeles County	—	—	18070102	0.8	—	N	A	1979
Bee Canyon (Mid)	Los Angeles County	—	—	18070102	0.8	—	N	A	1979
Bee Canyon (South)	City of Los Angeles	—	—	18070105	0.6	—	N	A	1979
Big Rock Creek	Los Angeles County	—	—	18090206	9.3	—	N	A	1979
Big Rock Creek South Fork	Los Angeles County	—	—	18090206	1.2	—	N	A	1979
Big Rock Wash	Los Angeles County	—	—	18090206	12.1	—	N	A	1979
Big Rock Wash (Profile Base Line)	City of Palmdale	City of Palmdale Corporate Limits	City of Palmdale Corporate Limits	18090206	4.0	—	N	AE	1985
Big Tujunga Wash	City of Los Angeles	—	—	18070105	6.8	—	N	A, AO	1979
Boulder Canyon Creek	Los Angeles County	—	—	18090206	4.0	—	N	A	1979
Bouquet Canyon Creek	Los Angeles County, City of Santa Clarita	Confluence with Santa Clara River	0.4 miles upstream of Texas Canyon Road	18070102	7.8	—	Y	AE	2014
Bouquet Canyon Creek	Los Angeles County	0.4 miles upstream of Texas Canyon Road	Approximately 900 feet upstream of Sierra Pellona Mtwy	18070102	3.1	—	Y	AE	2015
Bouquet Reservoir	Los Angeles County	—	—	18070102	—	0.9	N	A	1979
Broad Canyon Creek	Los Angeles County	—	—	18090206	8.9	—	N	A	1979

Table 2: Flooding Sources Included in this FIS Report, continued

Flooding Source	Community	Downstream Limit	Upstream Limit	HUC-8 Sub-Basin(s)	Length (mi) (streams or coastlines)	Area (mi ²) (estuaries or ponding)	Floodway (Y/N)	Zone shown on FIRM	Date of Analysis
Browns Creek	City of Los Angeles	—	—	18070105	3.3	—	N	AE	1979
California Aqueduct	Los Angeles County	—	—	18090206	6.2	—	N	A	—
Canada De Los Alamos Creek	Los Angeles County	—	—	18070102	3.9	—	N	A	1979
Carlos Canyon Creek	Los Angeles County	—	—	18070102	0.1	—	N	A	—
Carr Canyon Creek	Los Angeles County	—	—	18090206	0.3	—	N	A	—
Castaic Creek	Los Angeles County	Confluence with Santa Clara River	Approximately 0.6 miles above Tapia Canyon Road	18070102	5.6	—	N	AE	2015
Castaic Lagoon	Los Angeles County	—	—	18070102	—	0.3	N	A	1979
Castaic Lake	Los Angeles County	—	—	18070102	—	4.5	N	A	1979
Channel No. 2	City of Long Beach	—	—	18070104	0.8	—	N	AE	1991
Channel No. 3	City of Long Beach	—	—	18070104	0.7	—	N	AE	1991
Charlie Canyon Creek	Los Angeles County	—	—	18070102	2.0	—	N	A	1979
Chatsworth Reservoir	City of Los Angeles	—	—	18070105	—	0.7	N	A	1979
Cherry Canyon Creek	Los Angeles County	—	—	18070102	3.2	—	N	A	1979
Cheseboro Creek	City of Agoura Hills, Los Angeles County	Approximately 40 feet downstream of Driver Avenue	Approximately 400 feet upstream of confluence with Palo Comando Creek	18070104	0.6	—	N	AE	—
Cold Creek	Los Angeles County	Approximately 200 feet above confluence with Malibu Creek	Approximately 0.5 miles upstream of Cline Road	18070104	1.5	—	N	AE	2016
Cold Creek	Los Angeles County	—	—	18070104	2.3	—	N	A	2016

Table 2: Flooding Sources Included in this FIS Report, continued

Flooding Source	Community	Downstream Limit	Upstream Limit	HUC-8 Sub-Basin(s)	Length (mi) (streams or coastlines)	Area (mi ²) (estuaries or ponding)	Floodway (Y/N)	Zone shown on FIRM	Date of Analysis
Colorado Lagoon	City of Long Beach	—	—	18070106	0.4	0.02	N	AE	1979
Compton Creek	City of Compton, City of Long Beach, Los Angeles County, City of Carson	Confluence with Los Angeles River	Approximately 400 feet upstream of Artesia Boulevard	18070105	2.3	—	N	A	1991
Consolidated Channel	City of Los Angeles	—	—	18070104	0.6	—	N	AE	1979
Coyote Canyon Creek	City of Santa Clarita	—	—	18070102	0.7	—	N	A	1979
Coyote Creek	City of Long Beach	—	—	18070106	2.6	—	N	A	—
Cruthers Creek	Los Angeles County	—	—	18090206	0.6	—	N	A	—
Dark Canyon	Los Angeles County	Confluence with Cold Creek	Approx. 70 ft upstream of Wild Rose Drive	18070104	0.5	—	N	AE	2016
Dark Canyon West Branch	Los Angeles County	—	—	18070104	0.2	—	N	A	1979
Dewitt Canyon Creek	Los Angeles County	—	—	18070102	0.1	—	N	A	1979
Dominguez Channel	City of Carson, City of Gardena, City of Los Angeles	—	—	18070106	9.1	—	N	A	1978
Dorr Canyon Creek	Los Angeles County	—	—	18090206	1.0	—	N	A	1979
Dowd Canyon Creek	Los Angeles County	—	—	18070102	0.9	—	N	A, AO	1979
Dry Canyon	Los Angeles County, City of Calabasas	Approximately 2,360 feet upstream of the confluence with Cold Creek	Approximately 2.7 miles upstream of confluence with Cold Creek	18070104	2.3	—	N	AE	1979

Table 2: Flooding Sources Included in this FIS Report, continued

Flooding Source	Community	Downstream Limit	Upstream Limit	HUC-8 Sub-Basin(s)	Length (mi) (streams or coastlines)	Area (mi ²) (estuaries or ponding)	Floodway (Y/N)	Zone shown on FIRM	Date of Analysis
Dry Canyon	City of Santa Clarita	—	—	18070102	0.4	—	N	A, AO	1979
East Basin	City of Los Angeles	—	—	18070104	2.6	—	N	AE	1979
Elizabeth Canyon Creek	Los Angeles County	—	—	18070102	2.9	—	N	A	1979
Elizabeth Lake	Los Angeles County	—	—	18070102	—	0.3	N	A	1979
Elizabeth Lake Canyon Creek	Los Angeles County	—	—	18070102	5.0	—	N	A	1979
Eller Slough	Los Angeles County	—	—	18090206	3.7	—	N	A	1979
Elsmere Canyon Creek	City of Santa Clarita	Confluence with Newhall Creek	Approximately 1.3 miles upstream of State Route 14	18070102	1.4	—	N	AE	2015
Encino Reservoir	City of Los Angeles	—	—	18070105	0.8	—	N	A	1979
Entrance Channel (Marina Del Ray)	Los Angeles County	—	—	18070104	0.5	—	N	AE	1979
Escondido Canyon	Los Angeles County	Confluence with Acton Canton Creek	1.7 miles upstream of confluence with Acton Canton Creek	18070102	1.7	—	Y	AE	2014
Escondido Canyon	City of Malibu, Los Angeles County	—	—	18070104	0.6	—	N	A, AE	—
Fenner Canyon Creek	Los Angeles County	—	—	18090206	0.3	—	N	A	—
Fish Harbor	City of Los Angeles	—	—	18070106	1.1	—	N	AE	1979
Flood Control Channel to Aliso Creek	City of Los Angeles	—	—	18070105	0.9	—	N	A	—

Table 2: Flooding Sources Included in this FIS Report, continued

Flooding Source	Community	Downstream Limit	Upstream Limit	HUC-8 Sub-Basin(s)	Length (mi) (streams or coastlines)	Area (mi ²) (estuaries or ponding)	Floodway (Y/N)	Zone shown on FIRM	Date of Analysis
Flowline No. 1	City of Santa Fe Springs	At Florence Avenue	Approximately 340 ft upstream of Telegraph Road	18070106	0.6	—	N	AE	1978
Garapito Creek	Los Angeles County	Approximately 3,100 feet upstream of confluence with Topango Canyon	Approximately 1.3 miles upstream of confluence with Topanga Canyon	18070104	1.3	—	N	AE	1979
Gavin Canyon Creek	Los Angeles County, City of Santa Clarita	—	—	18070102	1.0	—	N	A	—
Gorman Creek	Los Angeles County	—	—	18070102	11.4	—	N	A, AH, AO	1979
Gorman Canyon Creek	City of Santa Clarita	—	—	18070102	0.9	—	N	A, AO	1984
Graham Canyon Creek	Los Angeles County	—	—	18090206	2.9	—	N	A	1979
Grandview Canyon Creek	Los Angeles County	—	—	18090206	7.2	—	N	A	1979
Harbor Lake	City of Los Angeles	—	—	18070106	0.6	0.07	N	AE	1979
Haskell Canyon	Los Angeles County, City of Santa Clarita	Confluence with Bouquet Canyon Creek	0.4 miles upstream of Copper Hill Drive	18070102	1.5	—	Y	AE	2014
Hasley Canyon Creek	Los Angeles County	Confluence with Castic Creek	0.3 miles upstream of Burlwood Drive	18070102	5.0	—	N	AE	2015
Holcomb Canyon Creek	Los Angeles County	—	—	18090206	0.9	—	N	A	1979
Holmes Creek	Los Angeles County	—	—	18090206	0.8	—	N	A	—
Hughes Lake	Los Angeles County	—	—	18070102	0.4	0.05	N	A	1979

Table 2: Flooding Sources Included in this FIS Report, continued

Flooding Source	Community	Downstream Limit	Upstream Limit	HUC-8 Sub-Basin(s)	Length (mi) (streams or coastlines)	Area (mi ²) (estuaries or ponding)	Floodway (Y/N)	Zone shown on FIRM	Date of Analysis
Iron Canyon	Los Angeles County, City of Santa Clarita	Confluence with Sand Canyon Creek	0.8 miles upstream of North Iron Canyon Road	18070102	1.7	—	Y	AE	2010
Jesus Canyon Creek	Los Angeles County	—	—	18090206	3.3	—	N	A	—
Kagel Canyon	City of Los Angeles, Los Angeles County	Northwest edge of Osbourne Street	Approx. 505 ft upstream of Blue Sage Drive	18070105	1.3	—	Y	AE	1979
Kentucky Springs Canyon Creek	Los Angeles County	Confluence with Soledad Canyon	Approximately 600 feet upstream of Ghost Mine Road	18070102	2.6	—	N	AE	2015
Lake Lindero	City of Agoura Hills, City of Westlake Village	—	—	18070104	0.3	0.02	N	A	1979
La Mirada Creek	City of La Mirada	Approximately 770 feet upstream of Roma Drive	At Stamy Road (Extended)	18070106	1.5	—	N	AE	1979
Lake Palmdale	Los Angeles County	—	—	18090206	1.1	0.3	N	A	1979
Lake Street Overflow	City of Burbank	Convergence with Burbank Western Flood Control Channel	Approx. 310 ft. upstream of Chestnut Street	18070105	0.1	—	N	AE	—
Las Flores Canyon	Los Angeles County, City of Malibu	At Pacific Coast Highway	Approx. 830 ft. upstream of Las Flores Canyon Rd	18070104	0.8	—	N	AE	1979
Las Virgenes Creek	City of Calabasas, Los Angeles County	Approx. 440 feet upstream of confluence with Malibu Creek	Approx. 2,030 feet upstream of Highway 101	18070104	4.7	—	N	AE	2010
Leaming Canyon Creek	Los Angeles County	—	—	18070102	0.2	—	N	A	1979
Lemontaine Creek	Los Angeles County	—	—	18090206	2.5	—	N	A	1979

Table 2: Flooding Sources Included in this FIS Report, continued

Flooding Source	Community	Downstream Limit	Upstream Limit	HUC-8 Sub-Basin(s)	Length (mi) (streams or coastlines)	Area (mi ²) (estuaries or ponding)	Floodway (Y/N)	Zone shown on FIRM	Date of Analysis
Liberty Canyon	City of Agoura Hills, Los Angeles County	—	—	18070104	0.4	—	N	AE	1979
Limekiln Creek	City of Los Angeles	—	—	18070105	1.8	—	N	A	1979
Lindero Canyon	City of Agoura Hills, City of Westlake Village	Upstream edge of spillway into Lake Lindero	Approx. 1,250 feet upstream of Reyes Adobe Rd	18070104	1.4	—	N	AE	—
Lion Canyon	Los Angeles County	At confluence with Santa Clara River	0.9 miles upstream of Seasoned Road	18070102	1.2	—	N	AE	2015
Little Rock Creek	Los Angeles County	—	—	18090206	6.3	—	N	A	1979
Little Rock Reservoir	Los Angeles County	—	—	18090206	—	0.08	N	A	—
Little Rock Wash	City of Lancaster, Los Angeles County	—	—	18090206	14.5	—	N	A	1985
Little Rock Wash	Los Angeles County	—	—	18090206	4.3	—	N	A	—
Little Rock Wash - Profile A	City of Palmdale	City of Palmdale Corporate Limits	City of Palmdale Corporate Limits	18090206	1.2	—	N	AE	1985
Little Rock Wash - Profile A	City of Palmdale	City of Palmdale Corporate Limits	City of Palmdale Corporate Limits	18090206	0.6	—	N	AE	1985
Little Rock Wash - Profile A	Los Angeles County	—	—	18090206	2.0	—	N	A	—
Little Rock Wash - Profile A	Los Angeles County, City of Palmdale	—	—	18090206	3.1	—	N	AE	1985

Table 2: Flooding Sources Included in this FIS Report, continued

Flooding Source	Community	Downstream Limit	Upstream Limit	HUC-8 Sub-Basin(s)	Length (mi) (streams or coastlines)	Area (mi ²) (estuaries or ponding)	Floodway (Y/N)	Zone shown on FIRM	Date of Analysis
Little Rock Wash - Profile A	Los Angeles County, City of Palmdale	—	—	18090206	3.0	—	N	A	1985
Little Rock Wash - Profile B	City of Palmdale	City of Palmdale Corporate Limits	City of Palmdale Corporate Limits	18090206	1.4	—	N	AE	1985
Little Rock Wash - Profile C	Los Angeles County, City of Palmdale	—	—	18090206	0.9	—	N	AE	1985
Little Tujunga Wash	Los Angeles County, City of Los Angeles	—	—	18070105	2.1	—	N	A, AO	1979
Lobo Canyon	Los Angeles County	Approx. 1,300 feet downstream of Lobo Canyon Road	Approx. 1.3 miles upstream of Lobo Canyon Road	18070104	1.6	—	N	AE	2015
Lockheed Drain Channel	City of Burbank, City of Los Angeles	Confluence with Burbank Western Flood Control Channel	Approximately 1.1 miles upstream of Access Road	18070105	2.9	—	N	AE	1978
Long Canyon	Los Angeles County	At confluence with Santa Clara River	2.4 miles upstream of confluence with Santa Clara River	18070102	2.4	—	N	AE	2015
Lopez Canyon Channel	Los Angeles County, City of Los Angeles	—	—	18070105	0.6	—	N	A, AE	1979
Los Angeles County Flood Control Channel	City of Los Angeles	—	—	18070105	0.9	—	N	A	1979
Los Angeles County Flood Control Channel to Aliso Creek	City of Los Angeles	—	—	18070105	2.5	—	N	A	1979
Los Angeles County Storm Drain	City of Carson, Los Angeles County	—	—	18070104	1.7	—	N	A	1979
Los Angeles County Storm Drain (2)	City of Carson	—	—	18070104	1.4	—	N	A	1979
Los Angeles Harbor	City of Los Angeles	—	—	18070104	2.8	—	N	AE	1979

Table 2: Flooding Sources Included in this FIS Report, continued

Flooding Source	Community	Downstream Limit	Upstream Limit	HUC-8 Sub-Basin(s)	Length (mi) (streams or coastlines)	Area (mi ²) (estuaries or ponding)	Floodway (Y/N)	Zone shown on FIRM	Date of Analysis
Los Angeles Reservoir	City of Los Angeles	—	—	18070105	—	0.3	N	A	1979
Los Angeles River	City of Compton, City of Cudahy, City of Long Beach, Los Angeles County, City of Paramount, City of South Gate, City of Los Angeles	—	—	18070105	21.7	—	N	A, AE	1991
Los Angeles River Flood Control Channel	City of Burbank	—	—	18070105	0.5	—	N	A	1978
Los Cerritos Channel	City of Long Beach	—	—	18070106	4.7	—	N	A	1978
Lyon Canyon Creek	Los Angeles County, City of Santa Clarita	—	—	18070102	1.2	—	N	A	1979
Main Channel	City of Los Angeles	—	—	18070106	2.1	—	N	AE	1979
Malaga Canyon Creek	City of Palos Verdes Estates	—	—	18070104	2.7	—	N	A	—
Malibu Creek	Los Angeles County, City of Malibu	—	—	18070104	9.4	—	N	A, AE	1979
Malibu Lake	Los Angeles County	—	—	18070104	0.9	0.06	N	A	1979
Marina Del Ray	Los Angeles County, City of Los Angeles	—	—	18070104	1.5	—	N	AE	1979
Marine Stadium	City of Long Beach	—	—	18070106	1.8	—	N	AE	1991
Medea Creek	City of Agoura Hills, Los Angeles County	At Mulholland Highway	Approx. 1,015 feet upstream of Cornell Road	18070104	2.9	—	N	AE	—
Middle Harbor	City of Long Beach	—	—	18070104	1.7	—	N	AE	1991

Table 2: Flooding Sources Included in this FIS Report, continued

Flooding Source	Community	Downstream Limit	Upstream Limit	HUC-8 Sub-Basin(s)	Length (mi) (streams or coastlines)	Area (mi ²) (estuaries or ponding)	Floodway (Y/N)	Zone shown on FIRM	Date of Analysis
Mill Creek	Los Angeles County	Approx. 70 feet upstream of Angeles Forest Highway	Approx. 1 mile upstream of Angeles Forest Highway	18070105	1.0	—	N	AE	—
Milton B. Arthur Lakes	City of Long Beach	—	—	18070106	0.5	0.05	N	A	1991
Mint Canyon Creek	City of Santa Clarita	Confluence with Santa Clara River Trail	0.9 miles upstream of Rocking Horse Road	18070102	12.8	—	Y	AE	2010
Mint Canyon Creek Overflow	City of Santa Clarita	Confluence with Santa Clara River Trail	Immediately downstream of Adon Avenue	18070102	1.0	—	N	AE	2015
Mint Canyon Spring	Los Angeles County	—	—	18070102	0.3	—	N	A	1979
Montebello Municipal Golf Course Pond	City of Montebello	—	—	18070105	0.1	0.001	N	A	1991
Morris Reservoir	Los Angeles County	—	—	18070106	—	0.5	N	AE	1979
Muscal Creek	Los Angeles County	—	—	18090106	5.3	—	N	A	1979
Myrick Canyon Creek	Los Angeles County	—	—	18090206	2.1	—	N	A	1979
Newhall Creek	City of Santa Clarita	Confluence with South Fork Santa Clara River	Approximately 0.3 miles upstream of Molokai Road	18070102	3.1	—	Y	AE	2014
Newhall Creek Left Overbank 2	City of Santa Clarita	Confluence with Newhall Creek	Immediately below 5th Street	18070102	1.6	—	N	AE	2015
Newhall Creek Left Overbank 3	City of Santa Clarita	Confluence with Newhall Creek Left Overbank 2	Immediately below 12th Street	18070102	0.8	—	N	AE	2015

Table 2: Flooding Sources Included in this FIS Report, continued

Flooding Source	Community	Downstream Limit	Upstream Limit	HUC-8 Sub-Basin(s)	Length (mi) (streams or coastlines)	Area (mi ²) (estuaries or ponding)	Floodway (Y/N)	Zone shown on FIRM	Date of Analysis
Newhall Creek Right Overbank 1	City of Santa Clarita	Confluence with Newhall Creek	Approximately 175 feet upstream of Molokai Road	18070102	0.2	—	Y	AE	2015
Oak Springs Canyon	City of Santa Clarita	Confluence with Santa Clara River	Approximately 0.3 miles upstream of Oak Spring	18070102	1.3	—	N	AE, AO	2015
Oak Springs Canyon Overflow	City of Santa Clarita	Confluence with Oak Springs Canyon Creek	Divergence from Oak Springs Canyon Creek	18070102	0.4	—	N	AE	2015
Oakgrove Canyon Creek	Los Angeles County	—	—	18090206	0.7	—	N	A	1979
Old Topanga Canyon	Los Angeles County	8,000 feet above mouth	Approx. 285 ft upstream of Valley Drive	18070104	3.3	—	N	A, AE	2016
Oro Fino Canyon Creek	City of Santa Clarita	—	—	18070102	0.3	—	N	A	1984
Oso Canyon Creek	Los Angeles County	—	—	18090206	3.7	—	N	A	1979
Overflow Area of Lockheed Drain Channel	City of Los Angeles	At Vanowen Street	At Southern Pacific Railroad	18070105	0.1	—	N	AE	1978
Pacific Ocean	City of Avalon, City of El Segundo, City of Hermosa Beach, City of Los Angeles, Los Angeles County, City of Malibu, City of Manhattan Beach, City of Redondo Beach, City of Santa Monica City of Torrance	—	—	18070104	70	—	N	A, AE, V, VE, X	2015
Pacific Terrace Harbor	City of Long Beach	—	—	18070106	0.3	—	N	AE	1991
Pacoima Channel	City of Los Angeles	—	—	18070105	1.5	—	N	A	1979
Pacoima Wash	Los Angeles County, City of Los Angeles	—	—	18070105	1.9	—	N	A, AO	1979

Table 2: Flooding Sources Included in this FIS Report, continued

Flooding Source	Community	Downstream Limit	Upstream Limit	HUC-8 Sub-Basin(s)	Length (mi) (streams or coastlines)	Area (mi ²) (estuaries or ponding)	Floodway (Y/N)	Zone shown on FIRM	Date of Analysis
Pallett Creek	Los Angeles County	—	—	18090206	15.9	—	N	A	1979
Palmdale Ditch	Los Angeles County	—	—	18090206	1.4	—	N	A	—
Palo Comando Creek	City of Agoura Hills, Los Angeles County	Confluence with Cheseboro Creek	County limits	18070104	1.3	—	N	AE	—
Palomas Canyon Creek	Los Angeles County	—	—	18070102	0.1	—	N	A	—
Pico Canyon	Los Angeles County, City of Santa Clarita	Confluence with South Fork Santa Clara River Tributary	Approximately 800 feet upstream of Stevenson Ranch Parkway	18070102	1.7	—	N	A, AE	2015
Pine Canyon Creek	Los Angeles County, City of Palmdale	—	—	18070102	6.9	—	N	A	1985
Piru Creek	Los Angeles County	—	—	18070102	1.7	—	N	A	1979
Placerita Creek	Los Angeles County, City of Santa Clarita	Confluence with Newhall Creek	Approximately 1400 feet upstream of Placerita Canyon Road	18070102	4.5	—	Y	AE	2015
Placerita Creek Overflow	City of Santa Clarita	Confluence with Newhall Creek	Approximately 1.6 miles upstream of confluence with Newhall Creek	18070102	1.7	—	N	AO, AE	2015
Plum Canyon Creek	Los Angeles County	Confluence with Bouquet Canyon Creek	Approximately 0.3 miles upstream of Rodgers Drive	18070102	0.8	—	N	AE	2015
Plum Canyon Creek	Los Angeles County	Just downstream of Plum Canyon Road	Approximately 1.1 miles upstream of Plum Canyon Road	18070102	1.1	—	N	A	2019
Portal Ridge Wash	City of Lancaster	—	—	18090206	1.4	—	N	AH	1979

Table 2: Flooding Sources Included in this FIS Report, continued

Flooding Source	Community	Downstream Limit	Upstream Limit	HUC-8 Sub-Basin(s)	Length (mi) (streams or coastlines)	Area (mi ²) (estuaries or ponding)	Floodway (Y/N)	Zone shown on FIRM	Date of Analysis
Potrero Canyon	Los Angeles County	Confluence with Santa Clara River	Approximately 3.7 miles upstream of Potrero Canyon Road	18070102	4.0	—	N	AE	2015
Potrero Valley Creek (Westlake Lake)	City of Westlake Village	—	—	18070104	0.9	—	N	A	—
Puzzle Canyon Creek	Los Angeles County	—	—	18090206	2.7	—	N	A	1979
Pyramid Lake	Los Angeles County	—	—	18070102	3.5	2.1	N	A	1979
Quail Lake	Los Angeles County	—	—	18090102	1.6	0.4	N	A	1979
Quigley Canyon Creek	City of Santa Clarita	Confluence with Placertia Creek	1.3 miles upstream of Meadview Avenue	18070102	1.5	—	Y	AE	2015
Railroad Canyon	City of Santa Clarita	Confluence with Newhall Creek	0.4 miles upstream of confluence with Newhall Creek	18070102	0.4	—	Y	AE	2014
Railroad Canyon	City of Santa Clarita	0.4 miles upstream of confluence with Newhall Creek	1.3 miles upstream of confluence with Newhall Creek	18070102	0.9	—	N	A	2014
Railroad Canyon Creek Left Overbank	City of Santa Clarita	Confluence with Newhall Creek	0.5 miles upstream of confluence with Newhall Creek	18070102	0.5	—	Y	AE	2014
Ramirez Canyon	Los Angeles County, City of Malibu	—	—	18070104	1.4	—	N	AE	1979
Reservoir near UCLA	City of Los Angeles	—	—	18070104	0.1	0.002	N	A	—
Rice Canyon Creek	Los Angeles County	—	—	18070102	0.4	—	N	A	1979

Table 2: Flooding Sources Included in this FIS Report, continued

Flooding Source	Community	Downstream Limit	Upstream Limit	HUC-8 Sub-Basin(s)	Length (mi) (streams or coastlines)	Area (mi ²) (estuaries or ponding)	Floodway (Y/N)	Zone shown on FIRM	Date of Analysis
Rio Hondo Channel	City of Bell Gardens, City of Downey, Los Angeles County, City of Montebello, City of Pico Rivera, City of South Gate	—	—	18070105	8.0	—	N	A	1991
Rio Hondo Channel Tributary	City of Montebello	—	—	18070105	0.6	—	N	AE	1991
Rivo Alto Canal	City of Long Beach	—	—	18070106	0.6	—	N	AE	1991
Roberts Canyon Creek	City of Azusa	—	—	18070106	0.4	—	N	A	—
Rock Creek	Los Angeles County	—	—	18090206	7.4	—	N	A	1979
Romero Canyon Creek	Los Angeles County	—	—	18070102	1.4	—	N	A	1979
Salt Canyon Creek	Los Angeles County	—	—	18070102	2.4	—	N	A	1979
San Dimas Wash	City of LaVerne; City of San Dimas	—	—	18070106	0.4	—	N	A	—
San Francisquito Canyon Creek	Los Angeles County, City of Santa Clarita	Confluence with Santa Clara River	Approximately 400 feet upstream of San Francisquito Canyon Road	18070102	8.5	—	Y	AE	2015
San Gabriel Reservoir	Los Angeles County	—	—	18070106	—	0.5	N	AE	1978
San Gabriel River	City of Bellflower, City of Cerritos, City of Lakewood, City of Long Beach	—	—	18070106	12.2	—	N	AE	1978
San Gabriel River	City of Azusa, Los Angeles County	—	—	18070106	11.5	—	N	A	1978

Table 2: Flooding Sources Included in this FIS Report, continued

Flooding Source	Community	Downstream Limit	Upstream Limit	HUC-8 Sub-Basin(s)	Length (mi) (streams or coastlines)	Area (mi ²) (estuaries or ponding)	Floodway (Y/N)	Zone shown on FIRM	Date of Analysis
San Martinez Chiquito Canyon	Los Angeles County	Confluence with Santa Clara River	Approximately 2000 feet upstream of San Martinez Road	18070102	4.0	—	N	AE	2015
San Martinez Grande Canyon Creek	Los Angeles County	Confluence with Santa Clara River	1.8 miles above State Route 126	18070102	2.0	—	N	AE	2015
San Pedro Bay	City of Long Beach	—	—	18070104	1.0	—	N	AE	1991
Sand Canyon Creek	Los Angeles County, City of Santa Clarita	Confluence with Santa Clara River	0.4 miles upstream of Coyote Canyon Creek	18070102	4.2	—	N	AE, AO	2010
Santa Clara River	Los Angeles County, City of Santa Clarita	At Los Angeles—Ventura County Boundary	Approximately 1.4 miles upstream of Lang Station Road	18070102	22.8	—	Y	AE	2015
Santa Clara River	Los Angeles County	Approximately 12 miles upstream of Lang Station Road	0.3 miles upstream of confluence of Soledad Canyon Creek	18070102	7.5	—	Y	A, AE	2015
Santa Clara River Overflow	Los Angeles County	Confluence with Santa Clara River	Approximately 1700 feet upstream of the confluence of Santa Clara River	18070102	0.3	—	N	AE	2015
Santa Maria Canyon	Los Angeles County	—	—	18070104	0.7	—	N	A, AE	1979
Santa Susana Creek	City of Los Angeles	—	—	18070105	2.9	—	N	AE	1979
Santa Susana Pass Wash	City of Los Angeles	—	—	18070105	0.9	—	N	A, AE	1979

Table 2: Flooding Sources Included in this FIS Report, continued

Flooding Source	Community	Downstream Limit	Upstream Limit	HUC-8 Sub-Basin(s)	Length (mi) (streams or coastlines)	Area (mi ²) (estuaries or ponding)	Floodway (Y/N)	Zone shown on FIRM	Date of Analysis
Santa Ynez Canyon Reservoir	City of Los Angeles	—	—	18070104	0.1	0.01	N	A	1979
Savage Creek	City of Whittier	—	—	18070106	0.1	—	N	AE	1978
Sawtelle-Westwood Channel	City of Los Angeles	—	—	18070104	0.4	—	N	AE	1978
Sierra Canyon Creek	Los Angeles County	—	—	18070104	1.2	—	N	A	1979
Silver Lake Reservoir	Los Angeles County	—	—	18070104	—	0.1	N	AE	1979
Sloan Canyon Creek	Los Angeles County	—	—	18070102	1.3	—	N	A	1979
Soledad Canyon	Los Angeles County	Confluence with Santa Clara River	Approximately 1.0 mile upstream of East Soledad Pass Road	18070102	4.6	—	N	AE	2015
South Fork Santa Clara River	City of Santa Clarita	Confluence with Santa Clara River	approximately 1,600 feet upstream of Lyons Avenue	18070102	4.2	—	Y	AE	2014
South Fork Santa Clara River Tributary	City of Santa Clarita	Confluence with South Fork Santa Clara River	Immediately upstream of Tournament Road	18070102	0.8	—	Y	AE	2014
South Portal Canyon Creek	Los Angeles County	—	—	18070102	0.4	—	N	A	1979
Spade Spring Canyon Creek	Los Angeles County	Confluence with Mint Canyon Creek	2.8 miles upstream of confluence with Mint Canyon Creek	18070102	2.8	—	Y	AE	2010
Stokes Canyon	Los Angeles County	—	—	18070104	2.0	—	N	A, AE	1979
Stone Canyon Reservoir	City of Los Angeles	—	—	18070104	—	0.2	N	AE	1979
Stone Canyon Road Tributary	City of Los Angeles	—	—	18070104	0.05	—	N	AE	1979

Table 2: Flooding Sources Included in this FIS Report, continued

Flooding Source	Community	Downstream Limit	Upstream Limit	HUC-8 Sub-Basin(s)	Length (mi) (streams or coastlines)	Area (mi ²) (estuaries or ponding)	Floodway (Y/N)	Zone shown on FIRM	Date of Analysis
Sullivan Canyon Creek	City of Los Angeles	—	—	18070104	1.8	—	N	A	1979
Sunshine Canyon Creek	City of Los Angeles	—	—	18070105	0.1	—	N	A	1979
Tacobi Creek	City of Whittier	—	—	18070106	0.1	—	N	A	1978
Tapia Canyon Creek	Los Angeles County	—	—	18070102	1.3	—	N	A	1979
Texas Canyon Creek	Los Angeles County	Confluence with Bouquet Canyon Creek	0.9 miles above confluence	18070102	0.9	—	N	AE	2015
Tick Canyon	Los Angeles County	Confluence with Santa Clara River	0.2 miles above Tick Canyon Road	18070102	2.1	—	N	AE	2015
Tonner Canyon Creek	Los Angeles County	—	—	18070106	1.2	—	N	A	1979
Topanga Canyon	Los Angeles County, City of Los Angeles	—	—	18070104	10.2	—	N	A, AE	2016
Towsley Canyon Creek	Los Angeles County, City of Santa Clarita	Approximately 400 feet upstream of confluence of Gavin Canyon Creek	Approximately 1100 feet upstream of The Old Road	18070102	—	—	N	AE	2015
Trancas Creek	City of Malibu	Approx 500 feet above mouth	Approximately 1,620 feet above mouth	18070104	0.1	—	N	AE	1979
Tributary to Unnamed Canyon	Los Angeles County, City of Santa Clarita	Approx 1,200 feet downstream of Access Road	Approx 1,650 feet upstream of Access Road	18070104	0.1	—	N	A	2017
Triunfo Creek	Los Angeles County, City of Westlake Village	Approx 200 feet downstream of Craggs Drive	At Westlake Dam	18070104	4.9	—	Y	AE	2015
Turnbull Canyon	City of Whittier	—	—	18070106	0.7	—	N	AE, AO	1978
Unnamed Canyon Creek (Serra Retreat Area)	Los Angeles County, City of Malibu	Approx 270 feet upstream of Unnamed Road	Approx 2,100 feet upstream of Unnamed Road	18070104	0.3	—	N	AE	1979

Table 2: Flooding Sources Included in this FIS Report, continued

Flooding Source	Community	Downstream Limit	Upstream Limit	HUC-8 Sub-Basin(s)	Length (mi) (streams or coastlines)	Area (mi ²) (estuaries or ponding)	Floodway (Y/N)	Zone shown on FIRM	Date of Analysis
Unnamed Stream Main Reach	City of Palos Verdes Estates	Approx 340 feet upstream of Pacific Ocean	Approx 230 feet upstream of Via Coronel	18070104	1.0	—	Y	AE	2012
Unnamed Stream Tributary 1	City of Palos Verdes Estates	Confluence with Unnamed Stream Main Reach	Approx 140 feet upstream of Via Landeta	18070104	0.2	—	Y	AE	2012
Unnamed Stream Tributary 2	City of Palos Verdes Estates	Confluence with Unnamed Stream Main Reach	Approx 180 feet upstream of Via Zurita	18070104	0.5	—	Y	AE	2012
Upper Franklin Canyon Reservoir	City of Los Angeles	—	—	18070104	—	0.02	N	AE	1979
Upper Los Angeles River Left Overbank	City of Los Angeles	At East Cezar Chavez Avenue	Approximately 1.6 miles upstream of East Cezar Chavez Avenue	18070105	1.6	—	N	AE	2016
Upper Stone Canyon Reservoir	City of Los Angeles	—	—	18070104	—	0.02	N	AE	1979
Vasquez Canyon	Los Angeles County	Confluence with Bouquet Canyon Creek	Approximately 2 miles upstream of confluence with Bouquet Canyon Creek	18070102	2.0	—	N	AE	2015
Villa Canyon Creek	Los Angeles County	—	—	18070102	0.1	—	N	A	1979
Vine Creek	City of West Covina	—	—	18070106	0.5	—	N	A	—
Violin Canyon Creek	Los Angeles County	—	—	18070102	1.2	—	N	AE,	1979
Wayside Canyon Creek	Los Angeles County	—	—	18070102	2.2	—	N	A	1979

Table 2: Flooding Sources Included in this FIS Report, continued

Flooding Source	Community	Downstream Limit	Upstream Limit	HUC-8 Sub-Basin(s)	Length (mi) (streams or coastlines)	Area (mi ²) (estuaries or ponding)	Floodway (Y/N)	Zone shown on FIRM	Date of Analysis
Weldon Canyon	City of Los Angeles	Approx 100 feet upstream of Golden State Freeway Bridge	Approx 1,500 feet upstream of Golden State Freeway Bridge	18070105	0.3	—	Y	AE	1979
West Basin	City of Los Angeles	—	—	18070106	2.7	—	N	AE	1979
West Channel	City of Los Angeles	—	—	18070106	0.7	—	N	AE	1979
Westlake Lake	City of Westlake Village	At Westlake Lake Dam	At the County Boundary	18070104	—	0.2	N	AE	2015
Whitney Canyon Creek	Los Angeles County, City of Santa Clarita	Confluence with Newhall Creek	1 mile upstream of confluence with Newhall Creek	18070102	1.0	—	N	AE	2015
Wildwood Canyon Creek	City of Santa Clarita	—	—	18070102	0.5	—	N	A, AO	1984
Wiley Canyon Creek	Los Angeles County, City of Santa Clarita	—	—	18070102	0.4	—	N	A	1984
Willow Springs Canyon Creek	Los Angeles County	—	—	18090206	5.9	—	N	A	1979
Young Canyon Creek	Los Angeles County	—	—	18070102	0.2	—	N	A	1979
Zuma Canyon	Los Angeles County, City of Malibu	—	—	18070104	2.6	—	N	A, AE	1979
UNKNOWN 1 near W. 3rd Street	City of Los Angeles, City of West Hollywood	—	—	18070104	1.0	—	N	AO	1980, 1985
UNKNOWN 2 near W. 3rd Street	City of Los Angeles	—	—	18070104	0.2	—	N	A	—
UNKNOWN 3 near W. 3rd Street	City of Los Angeles	—	—	18070104	0.8	—	N	A	—
UNKNOWN 1 near 4th Street	City of Los Angeles	—	—	18070104	0.2	—	N	A	—
UNKNOWN 1 near Aberdeen Avenue	City of Los Angeles	—	—	18070104	0.9	—	N	A	—

Table 2: Flooding Sources Included in this FIS Report, continued

Flooding Source	Community	Downstream Limit	Upstream Limit	HUC-8 Sub-Basin(s)	Length (mi) (streams or coastlines)	Area (mi ²) (estuaries or ponding)	Floodway (Y/N)	Zone shown on FIRM	Date of Analysis
UNKNOWN 1 near Alameda Street	City of Los Angeles	—	—	18070104	0.2	—	N	A	—
UNKNOWN 2 near Alameda Street	City of Los Angeles	—	—	18070104	0.2	—	N	A	—
UNKNOWN 1 near Alaska Avenue	City of Torrance	—	—	18070104	0.2	—	N	AH	1978
UNKNOWN 1 near Amsler Street	City of Torrance	—	—	18070104	0.1	—	N	AH	1978
UNKNOWN 1 to Anaverde Creek	City of Palmdale	—	—	18090206	1.1	—	N	A	1985
UNKNOWN 1 near Anza Avenue	City of Torrance	—	—	18070104	0.1	—	N	AH	1978
UNKNOWN 1 to Arroyo Calabasas	City of Hidden Hills	—	—	18070105	0.7	—	N	A	—
UNKNOWN 2 to Arroyo Calabasas	City of Calabasas	—	—	18070105	0.5	—	N	A	—
UNKNOWN 1 near Baile Avenue	City of Los Angeles	—	—	18070105	0.3	—	N	AE	—
UNKNOWN 2 near Baile Avenue	City of Los Angeles	—	—	18070105	0.1	—	N	AE	—
UNKNOWN 1 near S. Beverley Glen Boulevard	City of Los Angeles	—	—	18070104	0.1	—	N	AH	—
UNKNOWN 1 to Big Rock Wash	Los Angeles County	—	—	18090206	3.6	—	N	A, AO	—
UNKNOWN 1-A to Big Rock Wash	Los Angeles County	—	—	18090206	3.3	—	N	A, AO	—
UNKNOWN 2 to Big Rock Wash	Los Angeles County	—	—	18090206	2.6	—	N	A, AO	—
UNKNOWN 1 near Blinn Avenue	City of Los Angeles	—	—	18070104	0.2	—	N	A	—
UNKNOWN 1 to Broad Canyon Creek	Los Angeles County	—	—	18090206	1.3	—	N	A	—
UNKNOWN 2 to Broad Canyon Creek	Los Angeles County	—	—	18090206	2.3	—	N	A	—

Table 2: Flooding Sources Included in this FIS Report, continued

Flooding Source	Community	Downstream Limit	Upstream Limit	HUC-8 Sub-Basin(s)	Length (mi) (streams or coastlines)	Area (mi ²) (estuaries or ponding)	Floodway (Y/N)	Zone shown on FIRM	Date of Analysis
UNKNOWN 3 to Broad Canyon Creek	Los Angeles County	—	—	18090206	0.9	—	N	A	—
UNKNOWN 1 to California Aqueduct	Los Angeles County	—	—	18090206	2.2	—	N	A	—
UNKNOWN 2 to California Aqueduct	Los Angeles County	—	—	18090206	0.9	—	N	A	—
UNKNOWN 3 to California Aqueduct	Los Angeles County	—	—	18090206	2.1	—	N	A	—
UNKNOWN 4 to California Aqueduct	Los Angeles County	—	—	18090206	1.1	—	N	A	—
UNKNOWN 5 to California Aqueduct	Los Angeles County	—	—	18090206	0.6	—	N	A	—
UNKNOWN 1 near Camino Real Calle	City of Redondo Beach	—	—	18070104	0.2	—	N	AE	1981
UNKNOWN 1 near Chaparal Street	City of Los Angeles	—	—	18070104	0.2	—	N	AH	—
UNKNOWN 1 near Childs Court	City of Los Angeles	—	—	18070104	0.9	—	N	AO	—
UNKNOWN 1 near Club View Drive	City of Los Angeles	—	—	18070104	0.1	—	N	AH	—
UNKNOWN 1 near Denker Avenue	City of Los Angeles	—	—	18070104	0.1	—	N	AH	—
UNKNOWN 1 near Edwards AF Base	Los Angeles County	—	—	18090206	1.8	—	N	A	—
UNKNOWN 2 near Edwards AF Base	Los Angeles County	—	—	18090206	3.0	—	N	A	—
UNKNOWN 2-A near Edwards AF Base	Los Angeles County	—	—	18090206	0.7	—	N	A	—
UNKNOWN 1 near Eubank Avenue	City of Los Angeles	—	—	18070104	0.1	—	N	A	—
UNKNOWN 1 near Glade Avenue	City of Los Angeles	—	—	18070105	0.1	—	N	AE	—
UNKNOWN 2 near Glade Avenue	City of Los Angeles	—	—	18070105	0.1	—	N	AH	—

Table 2: Flooding Sources Included in this FIS Report, continued

Flooding Source	Community	Downstream Limit	Upstream Limit	HUC-8 Sub-Basin(s)	Length (mi) (streams or coastlines)	Area (mi ²) (estuaries or ponding)	Floodway (Y/N)	Zone shown on FIRM	Date of Analysis
UNKNOWN 1 to Glenoaks Boulevard	City of Los Angeles	—	—	18070105	0.5	—	N	A	—
UNKNOWN 2 to Glenoaks Boulevard	City of Los Angeles	—	—	18070105	0.3	—	N	A	—
UNKNOWN 3 to Glenoaks Boulevard	City of Los Angeles	—	—	18070105	0.7	—	N	A	—
UNKNOWN 1 near Gould Avenue	City of Redondo Beach	—	—	18070104	0.1	—	N	AE	1981
UNKNOWN 1 near Grenola Street	City of Los Angeles	—	—	18070104	0.6	—	N	A	—
UNKNOWN 1 near N. Hoover Street	City of Los Angeles	—	—	18070104	0.4	—	N	AH	—
UNKNOWN 1 near S. La Cienega Boulevard	City of Los Angeles	—	—	18070104	0.1	—	N	A	—
UNKNOWN 1 near Lake Palmdale	City of Palmdale	—	—	18090206	0.7	—	N	A	1985
UNKNOWN 1 near Laurel Canyon Boulevard	City of Los Angeles	—	—	18070104	1.0	—	N	AO	—
UNKNOWN 1 to Little Rock Wash	Los Angeles County	—	—	18090206	1.3	—	N	A, AO	—
UNKNOWN 2 to Little Rock Wash	Los Angeles County	—	—	18090206	2.6	—	N	A	—
UNKNOWN 3 to Little Rock Wash	Los Angeles County	—	—	18090206	1.9	—	N	A	—
UNKNOWN 1 near Long Beach Freeway	City of Lynwood	—	—	18070105	0.3	—	N	AH	—
UNKNOWN 1 near Louise Avenue	City of Lynwood	—	—	18070105	0.7	—	N	AH	—
UNKNOWN 1 near Lucerne Boulevard	City of Los Angeles	—	—	18070104	0.3	—	N	AH	—
UNKNOWN 1 near S. Main Street	City of Burbank	—	—	18070105	0.3	—	N	AO	—
UNKNOWN 1 near Magnolia Avenue	City of Los Angeles	—	—	18070105	0.2	—	N	AH	—
UNKNOWN 1 to Malaga Canyon Creek	City of Palos Verdes Estates	—	—	18070104	0.6	—	N	A	—

Table 2: Flooding Sources Included in this FIS Report, continued

Flooding Source	Community	Downstream Limit	Upstream Limit	HUC-8 Sub-Basin(s)	Length (mi) (streams or coastlines)	Area (mi ²) (estuaries or ponding)	Floodway (Y/N)	Zone shown on FIRM	Date of Analysis
UNKNOWN 2 to Malaga Canyon Creek	City of Palos Verdes Estates	—	—	18070104	0.7	—	N	A	—
UNKNOWN 2-A to Malaga Canyon Creek	City of Palos Verdes Estates	—	—	18070104	0.1	—	N	A	—
UNKNOWN 1 near Marathon Street	City of Los Angeles	—	—	18070104	0.1	—	N	AH	—
UNKNOWN 1 near Melrose Avenue	City of Los Angeles	—	—	18070104	0.5	—	N	A	—
UNKNOWN 1 near Mines Avenue	City of Montebello	—	—	18070105	0.1	—	N	AE	—
UNKNOWN 1 to Myrick Canyon Creek	Los Angeles County	—	—	18090206	0.7	—	N	A	—
UNKNOWN 1 near Overland Avenue	City of Los Angeles	—	—	18070104	1.4	—	N	AO	—
UNKNOWN 2 near Overland Avenue	City of Los Angeles	—	—	18070104	0.1	—	N	AH	—
UNKNOWN 1 near W. Olympic Boulevard	City of Los Angeles	—	—	18070104	0.1	—	N	AH	—
UNKNOWN 1 to Pallett Creek	Los Angeles County	—	—	18090206	7.6	—	N	A	—
UNKNOWN 1-A to Pallett Creek	Los Angeles County	—	—	18090206	10.2	—	N	A	—
UNKNOWN 1-A-1 to Pallett Creek	Los Angeles County	—	—	18090206	0.4	—	N	A	—
UNKNOWN 1-A-2 to Pallett Creek	Los Angeles County	—	—	18090206	1.4	—	N	A	—
UNKNOWN 1-B to Pallett Creek	Los Angeles County	—	—	18090206	9.6	—	N	A	—
UNKNOWN 1-B-1 to Pallett Creek	Los Angeles County	—	—	18090206	4.4	—	N	A	—
UNKNOWN 1-C to Pallett Creek	Los Angeles County	—	—	18090206	1.4	—	N	A	—
UNKNOWN 1 to Paso Robles Avenue	City of Los Angeles	—	—	18070105	0.4	—	N	AE	—
UNKNOWN 1 near Pershing Drive	City of Los Angeles	—	—	18070104	0.2	—	N	A	—

Table 2: Flooding Sources Included in this FIS Report, continued

Flooding Source	Community	Downstream Limit	Upstream Limit	HUC-8 Sub-Basin(s)	Length (mi) (streams or coastlines)	Area (mi ²) (estuaries or ponding)	Floodway (Y/N)	Zone shown on FIRM	Date of Analysis
UNKNOWN 1 to Portal Ridge Wash	Los Angeles County	—	—	18090206	3.0	—	N	A	—
UNKNOWN 1-A to Portal Ridge Wash	Los Angeles County	—	—	18090206	1.1	—	N	A	—
UNKNOWN 1-B to Portal Ridge Wash	Los Angeles County	—	—	18090206	2.2	—	N	A	—
UNKNOWN 1-C to Portal Ridge Wash	Los Angeles County	—	—	18090206	1.0	—	N	A	—
UNKNOWN 1 near Rexbon Road	City of Los Angeles	—	—	18070105	0.2	—	N	AE	—
UNKNOWN 1 near Ripley Avenue	City of Redondo Beach	—	—	18070104	0.1	—	N	AE	1981
UNKNOWN 1 near Roscoe Boulevard	City of Los Angeles	—	—	18070105	0.2	—	N	AH	—
UNKNOWN 1 near San Diego Freeway	City of Los Angeles	—	—	18070105	0.2	—	N	AH	—
UNKNOWN 1 to San Fernando Road	City of Los Angeles	—	—	18070105	0.4	—	N	A	—
UNKNOWN 2 to San Fernando Road	City of Los Angeles	—	—	18070105	0.5	—	N	A	—
UNKNOWN 1 to San Gabriel River	City of Long Beach	—	—	18070106	1.2	—	N	A	—
UNKNOWN 1 to Santa Susana Creek	City of Los Angeles	—	—	18070105	0.4	—	N	A, AO	—
UNKNOWN 1-A to Santa Susana Creek	City of Los Angeles	—	—	18070105	0.2	—	N	A	—
UNKNOWN 2 to Santa Susana Creek	City of Los Angeles	—	—	18070105	0.4	—	N	A	—
UNKNOWN 1 near Sesnon Boulevard	City of Los Angeles	—	—	18070105	0.1	—	N	AE	—
UNKNOWN 1 near Sheldon Street	City of Los Angeles	—	—	18070105	0.6	—	N	A	—
UNKNOWN 1 near W. Slausson Avenue	Los Angeles County	—	—	18070104	0.2	—	N	AH	—
UNKNOWN 2 near W. Slausson Avenue	Los Angeles County	—	—	18070104	0.2	—	N	AH	—

Table 2: Flooding Sources Included in this FIS Report, continued

Flooding Source	Community	Downstream Limit	Upstream Limit	HUC-8 Sub-Basin(s)	Length (mi) (streams or coastlines)	Area (mi ²) (estuaries or ponding)	Floodway (Y/N)	Zone shown on FIRM	Date of Analysis
UNKNOWN 1 near State Highway 110	City of Los Angeles	—	—	18070105	0.2	—	N	A	—
UNKNOWN 1 near W. Sunset Boulevard	City of Los Angeles	—	—	18070104	0.1	—	N	A	—
UNKNOWN 1 near Sunset Canyon Drive	City of Burbank	—	—	18070105	0.8	—	N	AO	—
UNKNOWN 1 near Susanna Place	City of Los Angeles	—	—	18070105	0.1	—	N	AH	—
UNKNOWN 1 near W. Temple Street	City of Los Angeles	—	—	18070104	0.3	—	N	AH	—
UNKNOWN 1 near Toledo Street	City of Torrance	—	—	18070104	0.1	—	N	AE	1978
UNKNOWN 2 near Toledo Street	City of Torrance	—	—	18070104	0.3	—	N	AH	1978
UNKNOWN 1 near UCLA	City of Los Angeles	—	—	18070104	2.4	—	N	AH	—
UNKNOWN 1 near Vail Avenue	City of Montebello	—	—	18070105	0.3	—	N	A	—
UNKNOWN 1 near S. Van Ness Avenue	City of Los Angeles	—	—	18070104	1.2	—	N	A, AH, AO	—
UNKNOWN 1 near Via Valmonte	City of Torrance	—	—	18070104	0.1	—	N	A	1978
UNKNOWN 1 near Victory Boulevard	City of Los Angeles	—	—	18070105	0.6	—	N	AH	—
UNKNOWN 1 near Vincent Street	City of Redondo Beach	—	—	18070104	0.1	—	N	AE	1981
UNKNOWN 2 near Vincent Street	City of Redondo Beach	—	—	18070104	0.1	—	N	AE	1981
UNKNOWN 1 to Vine Creek	City of West Covina	—	—	18070106	0.4	—	N	A	—
UNKNOWN 2 to Vine Creek	City of West Covina	—	—	18070106	0.3	—	N	A	—
UNKNOWN 1 near Walker Avenue	City of Los Angeles	—	—	18070104	0.1	—	N	A	—

Table 2: Flooding Sources Included in this FIS Report, continued

Flooding Source	Community	Downstream Limit	Upstream Limit	HUC-8 Sub-Basin(s)	Length (mi) (streams or coastlines)	Area (mi ²) (estuaries or ponding)	Floodway (Y/N)	Zone shown on FIRM	Date of Analysis
UNKNOWN 1 to Weldon Canyon Creek	City of Los Angeles	—	—	18070105	0.1	—	N	AE	—
UNKNOWN 1-A to Weldon Canyon Creek	City of Los Angeles	—	—	18070105	0.1	—	N	AE	—
UNKNOWN WEST of Edwards AF Base	Los Angeles County	—	—	18090206	7.5	—	N	A	—
UNKNOWN WEST of Edwards AF Base	Los Angeles County	—	—	18090206	3.9	—	N	A	—
UNKNOWN WEST of Edwards AF Base	Los Angeles County	—	—	18090206	2.4	—	N	A	—
UNKNOWN 1 to UNKNOWN WEST	Los Angeles County	—	—	18090206	2.5	—	N	A	—
UNKNOWN 1-A to UNKNOWN WEST	Los Angeles County	—	—	18090206	1.9	—	N	A	—
UNKNOWN 2 to UNKNOWN WEST	Los Angeles County	—	—	18090206	1.5	—	N	A	—
UNKNOWN 2-A to UNKNOWN WEST	Los Angeles County	—	—	18090206	1.0	—	N	A	—
UNKNOWN 3 to UNKNOWN WEST	Los Angeles County	—	—	18090206	1.6	—	N	A	—
UNKNOWN 3-A to UNKNOWN WEST	Los Angeles County	—	—	18090206	0.7	—	N	A	—
UNKNOWN 4 to UNKNOWN WEST	Los Angeles County	—	—	18090206	0.6	—	N	A	—
UNKNOWN 5 to UNKNOWN WEST	Los Angeles County	—	—	18090206	0.5	—	N	A	—
UNKNOWN 6 to UNKNOWN WEST	Los Angeles County	—	—	18090206	0.5	—	N	A	—
UNKNOWN 1 near Wilshire Boulevard	City of Los Angeles	—	—	18070104	2.6	—	N	AH, AO	—
UNKNOWN 2 near Wilshire Boulevard	City of Los Angeles	—	—	18070104	0.2	—	N	AH	—
UNKNOWN 3 near Wilshire Boulevard	City of Los Angeles	—	—	18070104	0.2	—	N	A	—
UNKNOWN 1 near Woodman Place	City of Los Angeles	—	—	18070105	1.2	—	N	A	—

SECTION 2.0 – FLOODPLAIN MANAGEMENT APPLICATIONS

2.1 Floodplain Boundaries

To provide a national standard without regional discrimination, the 1% annual chance (100-year) flood has been adopted by FEMA as the base flood for floodplain management purposes. The 0.2% annual chance (500-year) flood is employed to indicate additional areas of flood hazard in the community.

Each flooding source included in the project scope has been studied and mapped using professional engineering and mapping methodologies that were agreed upon by FEMA and Los Angeles County as appropriate to the risk level. Flood risk is evaluated based on factors such as known flood hazards and projected impact on the built environment. Engineering analyses were performed for each studied flooding source to calculate its 1% annual chance flood elevations; elevations corresponding to other floods (e.g. 10-, 4-, 2-, 0.2-percent annual chance, etc.) may have also been computed for certain flooding sources. Engineering models and methods are described in detail in Section 5.0 of this FIS Report. The modeled elevations at cross sections were used to delineate the floodplain boundaries on the FIRM; between cross sections, the boundaries were interpolated using elevation data from various sources. More information on specific mapping methods is provided in Section 6.0 of this FIS Report.

Depending on the accuracy of available topographic data (Table 23), study methodologies employed (Section 5.0), and flood risk, certain flooding sources may be mapped to show both the 1% and 0.2% annual chance floodplain boundaries, regulatory water surface elevations (BFEs), and/or a regulatory floodway. Similarly, other flooding sources may be mapped to show only the 1% annual chance floodplain boundary on the FIRM, without published water surface elevations. In cases where the 1% and 0.2% annual chance floodplain boundaries are close together, only the 1% annual chance floodplain boundary is shown on the FIRM. Figure 3, “Map Legend for FIRM”, describes the flood zones that are used on the FIRMs to account for the varying levels of flood risk that exist along flooding sources within the project area. Table 2 and Table 3 indicate the flood zone designations for each flooding source and each community within Los Angeles County, CA, respectively.

Table 2, “Flooding Sources Included in this FIS Report,” lists each flooding source, including its study limits, affected communities, mapped zone on the FIRM, and the completion date of its engineering analysis from which the flood elevations on the FIRM and in the FIS Report were derived. Descriptions and dates for the latest hydrologic and hydraulic analyses of the flooding sources are shown in Table 13. Floodplain boundaries for these flooding sources are shown on the FIRM (published separately) using the symbology described in Figure 3. On the map, the 1% annual chance floodplain corresponds to the SFHAs. The 0.2% annual chance floodplain shows areas that, although out of the regulatory floodplain, are still subject to flood hazards.

Small areas within the floodplain boundaries may lie above the flood elevations but cannot be shown due to limitations of the map scale and/or lack of detailed topographic data. The procedures to remove these areas from the SFHA are described in Section 6.5 of this FIS Report.

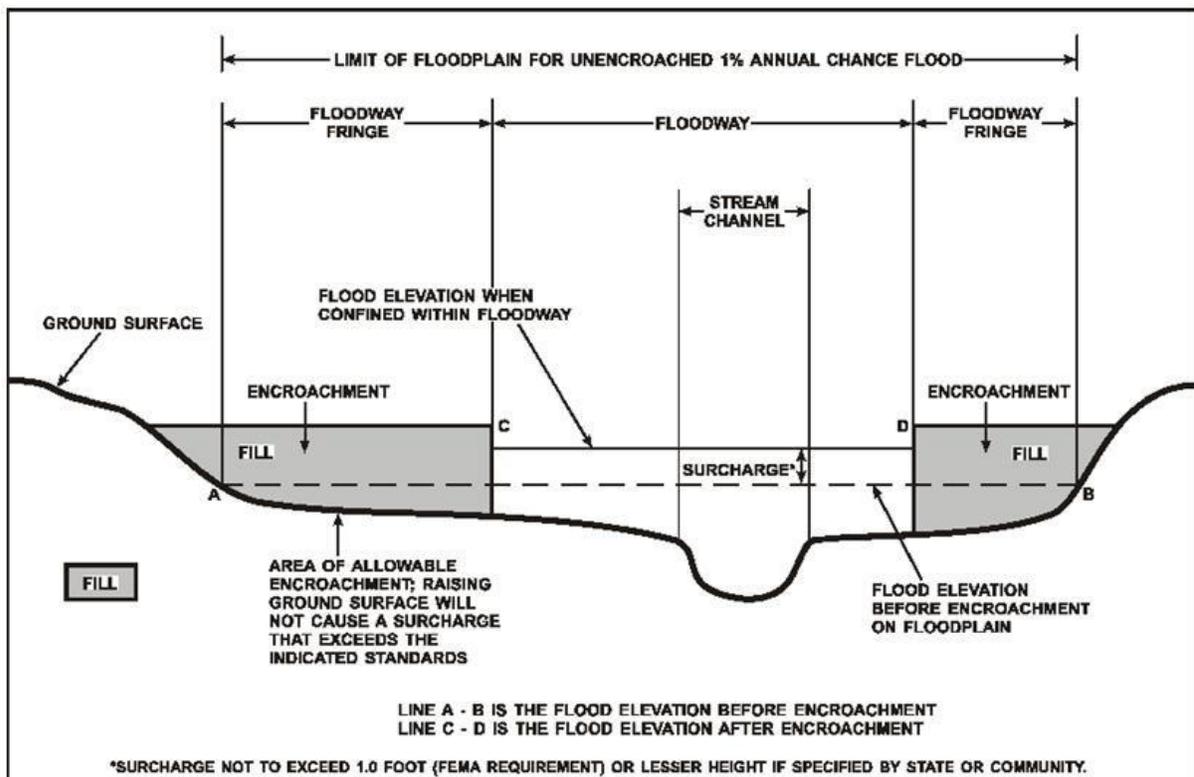
2.2 Floodways

Encroachment on floodplains, such as structures and fill, reduces flood-carrying capacity, increases flood heights and velocities, and increases flood hazards in areas beyond the encroachment itself. One aspect of floodplain management involves balancing the economic gain from floodplain development against the resulting increase in flood hazard.

For purposes of the NFIP, a floodway is used as a tool to assist local communities in balancing floodplain development against increasing flood hazard. With this approach, the area of the 1% annual chance floodplain on a river is divided into a floodway and a floodway fringe based on hydraulic modeling. The floodway is the channel of a stream, plus any adjacent floodplain areas, that must be kept free of encroachment in order to carry the 1% annual chance flood. The floodway fringe is the area between the floodway and the 1% annual chance floodplain boundaries where encroachment is permitted. The floodway must be wide enough so that the floodway fringe could be completely obstructed without increasing the water surface elevation of the 1% annual chance flood more than 1 foot at any point. Typical relationships between the floodway and the floodway fringe and their significance to floodplain development are shown in Figure 4.

To participate in the NFIP, Federal regulations require communities to limit increases caused by encroachment to 1.0 foot, provided that hazardous velocities are not produced. Regulations for California require communities in Los Angeles County to limit increases caused by encroachment to 0.5 foot and several communities have adopted additional restrictions. The floodways in this project are presented to local agencies as minimum standards that can be adopted directly or that can be used as a basis for additional floodway projects.

Figure 4: Floodway Schematic



Floodway widths presented in this FIS Report and on the FIRM were computed at cross sections. Between cross sections, the floodway boundaries were interpolated. For certain stream segments, floodways were adjusted so that the amount of floodwaters conveyed on each side of the floodplain would be reduced equally. The results of the floodway computations have been tabulated for selected cross sections and are shown in Table 24, "Floodway Data."

All floodways that were developed for this Flood Risk Project are shown on the FIRM using the symbology described in Figure 3. In cases where the floodway and 1% annual chance floodplain boundaries are either close together or collinear, only the floodway boundary has been shown on the FIRM. For information about the delineation of floodways on the FIRM, refer to Section 6.3.

2.3 Base Flood Elevations

The hydraulic characteristics of flooding sources were analyzed to provide estimates of the elevations of floods of the selected recurrence intervals. The Base Flood Elevation (BFE) is the elevation of the 1% annual chance flood. These BFEs are most commonly rounded to the whole foot, as shown on the FIRM, but in certain circumstances or locations they may be rounded to 0.1 foot. Cross section lines shown on the FIRM may also be labeled with the BFE rounded to 0.1 foot. Whole-foot BFEs derived from engineering analyses that apply to coastal areas, areas of ponding, or other static areas with little elevation change may also be shown at selected intervals on the FIRM.

Cross sections with BFEs shown on the FIRM correspond to the cross sections shown in the Floodway Data table and Flood Profiles in this FIS Report. BFEs are primarily intended for flood insurance rating purposes. For construction and/or floodplain management purposes, users are cautioned to use the flood elevation data presented in this FIS Report in conjunction with the data shown on the FIRM.

2.4 Non-Encroachment Zones

This section is not applicable to this Flood Risk Project

2.5 Coastal Flood Hazard Areas

For most areas along rivers, streams, and small lakes, BFEs and floodplain boundaries are based on the amount of water expected to enter the area during a 1% annual chance flood and the geometry of the floodplain. Floods in these areas are typically caused by storm events. However, for areas on or near ocean coasts, large rivers, or large bodies of water, BFE and floodplain boundaries may need to be based on additional components, including storm surges and waves. Communities on or near ocean coasts face flood hazards caused by offshore seismic events as well as storm events.

Coastal flooding sources that are included in this Flood Risk Project are shown in Table 2.

2.5.1 Water Elevations and the Effects of Waves

Specific terminology is used in coastal analyses to indicate which components have been included in evaluating flood hazards.

The stillwater elevation (SWEL or still water level) is the surface of the water resulting from astronomical tides, storm surge, and freshwater inputs, but excluding wave setup contribution or the effects of waves.

- *Astronomical tides* are periodic rises and falls in large bodies of water caused by the rotation of the earth and by the gravitational forces exerted by the earth, moon and sun.
- *Storm surge* is the additional water depth that occurs during large storm events. These events can bring air pressure changes and strong winds that force water up against the shore.
- *Freshwater inputs* include rainfall that falls directly on the body of water, runoff from surfaces and overland flow, and inputs from rivers.

The 1% annual chance stillwater elevation is the stillwater elevation that has been calculated for a storm surge from a 1% annual chance storm. The 1% annual chance storm surge can be determined from analyses of tidal gage records, statistical study of regional historical storms, or other modeling approaches. Stillwater elevations for storms of other frequencies can be developed using similar approaches.

The total stillwater elevation (also referred to as the mean water level) is the stillwater elevation plus wave setup contribution but excluding the effects of waves.

- *Wave setup* is the increase in stillwater elevation at the shoreline caused by the reduction of waves in shallow water. It occurs as breaking wave momentum is transferred to the water column.

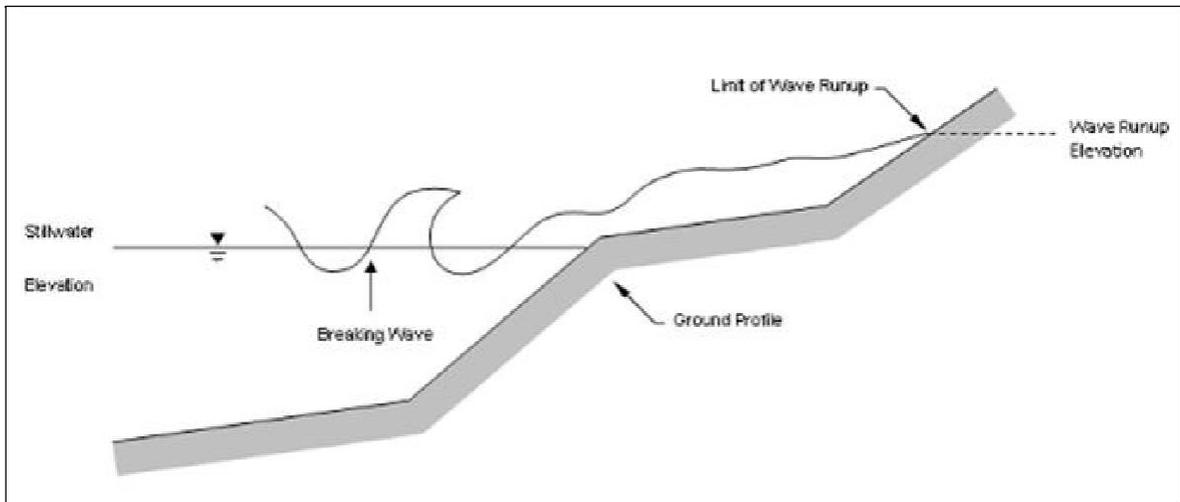
Like the stillwater elevation, the total stillwater elevation is based on a storm of a particular frequency, such as the 1% annual chance storm. Wave setup is typically estimated using standard engineering practices or calculated using models, since tidal gages are often sited in areas

sheltered from wave action and do not capture this information.

Coastal analyses may examine the effects of overland waves by analyzing storm-induced erosion, overland wave propagation, wave runup, and/or wave overtopping.

- *Storm-induced erosion* is the modification of existing topography by erosion caused by a specific storm event, as opposed to general erosion that occurs at a more constant rate
- *Overland wave propagation* describes the combined effects of variation in ground elevation, vegetation, and physical features on wave characteristics as waves move onshore.
- *Wave runup* is the uprush of water from wave action on a shore barrier. It is a function of the roughness and geometry of the shoreline at the point where the stillwater elevation intersects the land.
- *Wave overtopping* refers to wave runup that occurs when waves pass over the crest of a barrier.

Figure 5: Wave Runup Transect Schematic



2.5.2 Floodplain Boundaries and BFEs for Coastal Areas

For coastal communities along the Atlantic and Pacific Oceans, the Gulf of Mexico, the Great Lakes, and the Caribbean Sea, flood hazards must take into account how storm surges, waves, and extreme tides interact with factors such as topography and vegetation. Storm surge and waves must also be considered in assessing flood risk for certain communities on rivers or large inland bodies of water.

Beyond areas that are affected by waves and tides, coastal communities can also have riverine floodplains with designated floodways, as described in previous sections.

Floodplain Boundaries

In many coastal areas, storm surge is the principle component of flooding. The extent of the 1%

annual chance floodplain in these areas is derived from the total stillwater elevation (stillwater elevation including storm surge plus wave setup) for the 1% annual chance storm. The methods that were used for calculation of total stillwater elevations for coastal areas are described in Section 5.3 of this FIS Report. Location of total stillwater elevations for coastal areas are shown in Figure 8, “1% Annual Chance Total Stillwater Levels for Coastal Areas.”

In some areas, the 1% annual chance floodplain is determined based on the limit of wave runup or wave overtopping for the 1% annual chance storm surge. The methods that were used for calculation of wave hazards are described in Section 5.3 of this FIS Report.

Table 26 presents the types of coastal analyses that were used in mapping the 1% annual chance floodplain in coastal areas.

Coastal BFEs

Coastal BFEs are calculated as the total stillwater elevation (stillwater elevation including storm surge plus wave setup) for the 1% annual chance storm plus the additional flood hazard from overland wave effects (storm-induced erosion, overland wave propagation, wave runup and wave overtopping).

Where they apply, coastal BFEs are calculated along transects extending from offshore to the limit of coastal flooding onshore. Results of these analyses are accurate until local topography, vegetation, or development type and density within the community undergoes major changes.

Parameters that were included in calculating coastal BFEs for each transect included in this FIS Report are presented in Table 17, “Coastal Transect Parameters.” The locations of transects are shown in Figure 9, “Transect Location Map.” More detailed information about the methods used in coastal analyses and the results of intermediate steps in the coastal analyses are presented in Section 5.3 of this FIS Report. Additional information on specific mapping methods is provided in Section 6.4 of this FIS Report.

2.5.3 Coastal High Hazard Areas

Certain areas along the open coast and other areas may have higher risk of experiencing structural damage caused by wave action and/or high-velocity water during the 1% annual chance flood. These areas will be identified on the FIRM as Coastal High Hazard Areas.

- *Coastal High Hazard Area (CHHA)* is a SFHA extending from offshore to the inland limit of the primary frontal dune (PFD) or any other area subject to damages caused by wave action and/or high-velocity water during the 1% annual chance flood.
- *Primary Frontal Dune (PFD)* is a continuous or nearly continuous mound or ridge of sand with relatively steep slopes immediately landward and adjacent to the beach. The PFD is subject to erosion and overtopping from high tides and waves during major coastal storms.

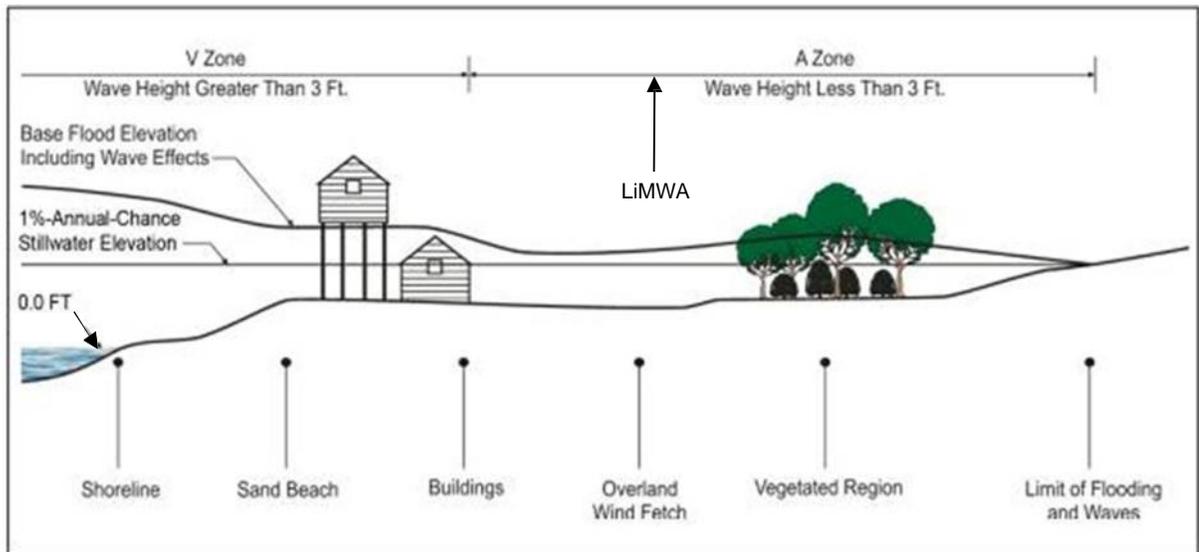
CHHAs are designated as “V” zones (for “velocity wave zones”) and are subject to more stringent regulatory requirements and a different flood insurance rate structure. The areas of greatest risk are shown as VE on the FIRM. Zone VE is further subdivided into elevation zones and shown with BFEs on the FIRM.

The landward limit of the PFD occurs at a point where there is a distinct change from a relatively steep slope to a relatively mild slope; this point represents the landward extension of Zone VE. Areas of lower risk in the CHHA are designated with Zone V on the FIRM. More detailed information about the identification and designation of Zone VE is presented in Section 6.4 of this FIS Report.

Areas that are not within the CHHA but are SFHAs may still be impacted by coastal flooding and damaging waves; these areas are shown as “A” zones on the FIRM.

Figure 6, “Coastal Transect Schematic,” illustrates the relationship between the base flood elevation, the 1% annual chance stillwater elevation, and the ground profile as well as the location of the Zone VE and Zone AE areas in an area without a PFD subject to overland wave propagation. This figure also illustrates energy dissipation and regeneration of a wave as it moves inland.

Figure 6: Coastal Transect Schematic



Methods used in coastal analyses in this Flood Risk Project are presented in Section 5.3 and mapping methods are provided in Section 6.4 of this FIS Report.

Coastal floodplains are shown on the FIRM using the symbology described in Figure 3, “Map Legend for FIRM.” In many cases, the BFE on the FIRM is higher than the stillwater elevations shown in Table 17 due to the presence of wave effects. The higher elevation should be used for construction and/or floodplain management purposes.

2.5.4 Limit of Moderate Wave Action

This section is not applicable to this Flood Risk Project

SECTION 3.0 – INSURANCE APPLICATIONS

3.1 National Flood Insurance Program Insurance Zones

For flood insurance applications, the FIRM designates flood insurance rate zones as described in Figure 3, “Map Legend for FIRM.” Flood insurance zone designations are assigned to flooding sources based on the results of the hydraulic or coastal analyses. Insurance agents use the zones shown on the FIRM and depths and base flood elevations in this FIS Report in conjunction with information on structures and their contents to assign premium rates for flood insurance policies.

The 1% annual chance floodplain boundary corresponds to the boundary of the areas of special flood hazards (e.g. Zones A, AE, V, VE, etc.), and the 0.2% annual chance floodplain boundary corresponds to the boundary of areas of additional flood hazards.

Table 3 lists the flood insurance zones in the unincorporated and incorporated areas of Los Angeles County.

Table 3: Flood Zone Designations by Community

Community	Flood Zone(s)
Agoura Hills, City of	A, AE, D, X
Alhambra, City of	X
Arcadia, City of	D, X
Artesia, City of	X
Avalon, City of	A, AE, D, VE, X
Azusa, City of	A, D, X
Baldwin Park, City of	X
Bell, City of	X
Bell Gardens, City of	A,X
Bellflower, City of	AE, X
Beverly Hills, City of	D, X
Bradbury, City of	D, X
Burbank, City of	A, AE, AO, D, X
Calabasas, City of	A, AE, D, X
Carson, City of	A, X
Cerritos, City of	A, AE, X
Claremont, City of	D, X
Commerce, City of	A, X
Compton, City of	A, X
Covina, City of	D, X
Cudahy, City of	A, X
Culver City, City of	A, AE, AO, X
Diamond Bar, City of	A, AO, D, X
Downey, City of	A, AE, X
Duarte, City of	D, X
El Monte, City of	X
El Segundo, City of	AE, VE, X
Gardena, City of	A, X
Glendale, City of	D, X
Glendora, City of	D, X

Table 3: Flood Zone Designations by Community, continued

Community	Flood Zone(s)
Hawaiian Gardens, City of	X
Hawthorne, City of	X
Hermosa Beach, City of	AE, VE, X
Hidden Hills, City of	A, D, X
Huntington Park, City of	X
Industry, City of	D, X
Inglewood, City of	X
Irwindale, City of	D, X
La Canada Flintridge, City of	D, X
La Habra Heights, City of	D, X
La Mirada, City of	AE, X
La Puente, City of	D, X
La Verne, City of	AE, D, X
Lakewood, City of	A, X
Lancaster, City of	A, AE, AH, AO, X
Lawndale, City of	X
Lomita, City of	X
Long Beach, City of	A, AE, AH, VE, X
Los Angeles, City of	A, AE, AH, AO, D, VE, X
Los Angeles County, Unincorporated Areas	A, AE, AH, AO, D, VE, X
Lynwood, City of	AH, X
Malibu, City of	A, AE, AO, VE, X
Manhattan Beach, City of	AE, VE, X
Maywood, City of	X
Monrovia, City of	D, X
Montebello, City of	A, AE, D, X
Monterey Park, City of	D, X
Norwalk, City of	AE, X
Palmdale, City of	A, AE, AO, D, X
Palos Verdes Estates, City of	A, AE, VE, X
Paramount, City of	A, AH, X
Pasadena, City of	D, X
Pico Rivera, City of	A, AE, D, X
Pomona, City of	D, X
Rancho Palos Verdes, City of	A, D, VE, X

Table 3: Flood Zone Designations by Community, continued

Community	Flood Zone(s)
Redondo Beach, City of	AE, VE, X
Rolling Hills, City of	D, X
Rolling Hills Estates, City of	X
Rosemead, City of	D, X
San Dimas, City of	AE, D, X
San Fernando, City of	X
San Gabriel, City of	X
San Marino, City of	X
Santa Clarita, City of	A, AE, AH, AO, D, X
Santa Fe Springs, City of	AE, AH, X
Santa Monica, City of	AE, D, VE, X
Sierra Madre, City of	D, X
Signal Hill, City of	X
South El Monte, City of	X
South Gate, City of	A, X
South Pasadena, City of	X
Temple City, City of	X
Torrance, City of	A, AE, AH, V, VE, X
Vernon, City of	X
Walnut, City of	D, X
West Covina, City of	A, D, X
West Hollywood, City of	X
Westlake Village, City of	A, AE, X
Whittier, City of	A, AE, AO, D, X

3.2 Coastal Barrier Resources System

This section is not applicable to this Flood Risk Project.

Table 4: Coastal Barrier Resources System Information

[Not Applicable to this Flood Risk Project]

SECTION 4.0 – AREA STUDIED

4.1 Basin Description

Table 5 contains a description of the characteristics of the HUC-8 sub-basins within which each community falls. The table includes the main flooding sources within each basin, a brief description of the basin, and its drainage area.

Table 5: Basin Characteristics

HUC-8 Sub-Basin Name	HUC-8 Sub-Basin Number	Primary Flooding Source	Description of Affected Area	Drainage Area (square miles)
Antelope – Fremont Valleys	18090206	Big Rock Creek / Little Rock Creek	Extended into Los Angeles county and Cities of Lancaster, and Palmdale. Development is to the east is generally commercial and industrial.	12,000
Calleguas	18070103	Calleguas Creek	Calleguas Creek drains an area of 343 square miles in Ventura County and a small portion of western Los Angeles County.	438
Los Angeles	18070105	Pacific Ocean	Majority of the upper portion is covered by forest and open space. Cities of Long Beach and Los Angeles are highly developed with residential and urban use.	819
Middle Kern-Upper Tehachapi-Grapevine	18030003	Kern River	Drains an areas of the southern Sierra Nevada Mountains northeast of Bakersfield.	2,617
Mojave	18090208	Mojave River	Located in the Southwestern part of the Mojave Desert and extends from the San Bernardino and the San Gabriel Mountains.	4,618
San Gabriel	18070106	San Gabriel River	Majority of areas are not developed. It runs through Angeles National Forest and Cities of Covina, Long Beach, Los Angeles, Pomona, and Whittier	713
San Pedro Channel Islands	18070107	Pacific Ocean	Minor islands off the coast	154
Santa Ana	18070203	Santa Ana River	Drainage area spans across Los Angeles, Orange, Riverside and San Bernardino counties.	1,694
Santa Clara	18070102	Santa Clara River	Encompasses majority of Los Angeles County and Ventura County, as well as Cities of Fillmore, San Buenaventura, Santa Clarita, and Santa Paula.	1,610
Santa Monica Bay	18070104	Malibu Creek	Mostly highly urbanized areas. Major communities include the Cities of Agoura Hills, Calabasas, Culver City, Inglewood, Los Angeles, Malibu, Santa Monica, and West Hollywood.	575

4.2 Principal Flood Problems

Table 6 contains a description of the principal flood problems that have been noted for Los Angeles County by flooding source.

Table 6: Principal Flood Problems

Flooding Source	Description of Flood Problems
All Sources	<p>Los Angeles County has a long history of destructive flooding. In the Los Angeles basin area, an extensive flood control system eliminated much of the flood hazard experienced in years past. However, in the less densely populated areas of Malibu, Santa Clarita Valley, and Antelope Valley, relatively few flood controls have been constructed. These areas remain subject to flood hazard during major storms.</p>
Alluvial Fans	<p>The type of flooding in the City of Palmdale is typical of that experienced by communities developed on alluvial fans. Flood flows discharge from the mountainous canyons onto the desert floor, where, due to the lack of well incised streambeds, water spreads out in uncontrolled patterns. Intense, short-duration summer thunderstorms are not uncommon and have created flooding in downstream areas.</p> <p>The principal flood problems for both the Little Rock and Big Rock Washes can be attributed to three factors: the very flat topography, the absence of well-defined natural channels, and the lack of a developed flood control system. In the steeper upstream reaches of both washes, water is confined mostly to the main channel. Flooding problems occur when the flows reach the valley floor where the channels flatten out. This allows the flows to spread over great distances, inundating the surrounding areas.</p> <p>In some instances, flooding from different sources converges in specific drainage areas of the city. In the east-central part of the city, flooding studied by approximate methods originates in the north, east of Amargosa Creek, and converges with flooding studied by detailed methods that originate in the foothills to the south.</p> <p>Flood discharges have overflowed normally dry streambeds, resulting in heavy damage as floodwaters travel through developed areas. During the period of comparatively recent record, floods of major proportions have occurred. The office of the County Engineer has identified the areas in which moderate to severe flooding was observed during heavy storms in 1938, 1965, and 1969 on flood overflow maps. During these floods, widespread damage to orchards, irrigation systems, buildings, and roads occurred.</p>
Antelope Valley	<p>Flows in the Antelope Valley are northerly from the mountains across the broad alluvial plain, through a network of largely unimproved channels. During minor storms, much of the flow percolates into the ground. In major storms, flows reach the lake at the northern county limits, where flood flows pond until evaporated.</p> <p>The City of Lancaster is on the alluvial floodplain of the Antelope Valley. Consequently, the type of flooding experienced in the city is typical of that experienced by communities developed on alluvial fans. Flood flows discharge from the mountainous canyons onto the desert floor, where, due to the lack of well-incised streambeds, it spreads out in uncontrolled patterns.</p> <p>Flood discharges have overflowed in normally dry streambeds, resulting in heavy damage as floodwaters pass through developed areas. Flooding from Little Rock Creek was experienced in the eastern portion of the city.</p>

Table 6: Principal Flood Problems, continued

Flooding Source	Description of Flood Problems
Ballona Creek	<p>The City of Culver City has an extensive history of floods and flooding. Sources of flooding include the Ballona Creek channel and associated tributaries, as well as drainage channels originating in the Baldwin Hills and surrounding cities.</p> <p>The Los Angeles County Flood Control District's flood overflow maps also indicate a history of flooded streets and low-lying areas along the streams of Culver City that resulted from major storms.</p>
Dominguez Channel	<p>The LACFCD flood overflow map indicates a history of flood streets, sump, and general flooding among Dominguez Channel in Torrance. The flooding problems were related to the inadequacy of local drainage facilities.</p>
Foothills of Santa Clarita	<p>Los Angeles County Flood Control District flood-overflow maps indicate a history of flooding in this area from major storms. These events demonstrate that the city of Santa Clarita is susceptible to flood damage. Of particular concern are mudflows that frequently occur in the foothill areas during intense rainfall, usually following brush fires in the upstream watershed. This hazard has not been addressed in this study.</p> <p>During the 1969 storms, much damage was caused by erosion and sedimentation of the natural watercourses. The most significant damage to private property was the destruction of a zoological compound located in the Santa Clara River floodplain.</p>
La Mirada Creek	<p>La Mirada Creek is an unimproved watercourse that flows southwest through the La Mirada. Overflow maps indicate a history of flooded streets and natural watercourses in the city. Between Santa Gertrudes Avenue and Stamy Road, the channel runs into La Mirada Creek Park. The park has been designed as a greenbelt flood plain management area and the 1-Percent Annual Chance discharge is contained within city owned park property. Downstream of Stamy Road, the flood flows follow the natural watercourse alignment of La Mirada Creek. Between Stamy Road and Imperial Highway, the existing development is rural-residential and the flood plain is occupied by horse corrals and small barns. The water ponds upstream of Imperial Highway inundate approximately 3 acres of undeveloped property. Between Imperial Highway and La Mirada Boulevard, the flows continue through a miniature golf course and a residential development. The residential structures are located on high ground substantially above the flood plain. Downstream of La Mirada Boulevard, the watercourse traverses an open field that is part of Biola College. An existing flood control channel, downstream of the field, collects floodwaters, which are ultimately conveyed to North Fork Coyote Creek.</p> <p>Watersheds of less than one square mile within the city have historically caused flooding in developed low-lying areas. These areas are located in the vicinity of the intersection of Valeda Drive and De Alcala Drive, between Goldendale Drive and Telegraph Road, the eastern end of Capella Street, the intersection of San Feliciano Drive and Figueras Road, the intersection of Crosswood Road and Pemberton Drive, the intersection of Borda Drive and San Ardo Drive, and north of the Atchison, Topeka, and Santa Fe Railway near Castellon Road.</p>

Table 6: Principal Flood Problems, continued

Flooding Source	Description of Flood Problems
Lockheed Drain	<p>During a February 1992 storm, localized flooding was observed in the city of Burbank.</p> <p>Lockheed Drain overtopped upstream of an existing railroad spur bridge and flowed south down Griffith Park Drive to Burbank Boulevard. The overflow then flowed east along Burbank Boulevard until joining the flood flows in the Burbank Western Flood Control Channel.</p>
Los Angeles River	<p>The Cities of Bellflower, Carson, Compton, Downey, Gardena, Lakewood, Long Beach, Los Angeles, Lynwood, Montebello, Paramount, Pico Rivera, Santa Fe Springs, South Gate, and Whittier have a history of flooding roughly parallel to that of the larger Los Angeles River watershed. Prior to the construction of the extensive storm drain and flood control channel system protecting numerous communities within the county, these cities suffered the continual damage wrought by overflow of the Los Angeles River and/or its tributaries. Following completion of this system, and due to the lack of a very large flood event during the intervening period, the major cause of flood damage within these cities has been flooding by overflow of local drainage systems and smaller tributaries to the Los Angeles River system. Of particular concern are mudflows that frequently occur in the foothill areas during intense rainfall, usually following wildfires in the upstream watershed.</p>
Pacific Ocean	<p>The Southern California coastline is exposed to waves generated by winter and summer storms originating in the Pacific Ocean. It is not uncommon for these storms to cause 15-foot breakers. The occurrence of such a storm event in combination with high astronomical tides and strong winds can cause a significant wave runup and allow storm waves to attack higher than normal elevations along the coastline. When this occurs, shoreline erosion and coastal flooding frequently results in damage to inadequately protected structures and facilities located along low-lying portions of the shoreline.</p> <p>Oil pumping in past years has caused subsidence along the ocean front areas of Long Beach. Settlements of up to 30 feet have occurred in some areas of the Long Beach Harbor subjecting many locations along the coast to damage from direct wave action. Much of Naples Island and Belmont Shores in southeastern Long Beach, lie at elevations less than the maximum recorded tide.</p>
Rainfall Runoff	<p>In the City of Los Angeles, city engineers have indicated that an inland strip along the beach, northwest of Ballona Creek outlet, has historically been subject to shallow flooding because, during major storms, the drains serving the area have not functioned at high tide.</p> <p>In the City of Burbank, flooding is caused by surface runoff associated with high-intensity orographic rainfalls of several hours duration. Once the ground is saturated, subsequent rainfall, augmented by canyon flood flows and coupled with inadequate local drainage facilities, produces shallow flooding and ponding to a depth of approximately 3 feet.</p>

Table 6: Principal Flood Problems, continued

Flooding Source	Description of Flood Problems
Redondo Beach Watersheds	<p>The watersheds of Redondo Beach are relatively small with storm flows either draining directly into the ocean or accumulating in numerous small sumps. The Los Angeles County Flood Control District flood overflow maps indicate a history of flooded streets and sumps in the community which resulted from the major storms of 1938, 1965, 1969, 1978, 1980, 1983, and 1994.</p> <p>Flooding caused by the 1-percent annual chance flood is limited to street rights of way, areas of shallow flooding less than one foot deep, and ponding areas. Shallow flooding occurs along Avenue I between South Elena and Esplanade Avenues; along Julia Avenue between Camino Real and South Juanita Avenue; between Del Amo, Diamond, Garnsey, and Vincent Streets; between Vincent Street, South Irena Avenue, Spencer Street, and El Rondo; between Anita Street, North Prospect Avenue, Agate Street, and Harkness Lane; along Carnegie Lane between Blossom and Green Lanes; between Aviation Way and Artesia and Aviation Boulevards; between Gibson Avenue, Deland Boulevard, Dow Avenue, and Manhattan Beach Boulevard; at the intersection of the Atchinson, Topeka, and Santa Fe Railway and Inglewood Avenue; and along Compton Boulevard between Freeman and Aviation Boulevards.</p>

Table 7 contains information about historic flood elevations in the communities within Los Angeles County.

Table 7: Historic Flooding Elevations

Flooding Source	Location	Historic Peak (Feet NAVD88)	Event Date	Approximate Recurrence Interval (years)	Source of Data
Big Rock Creek	Near Valyermo, CA	4053.3	1/25/1969	N/A	USGS gage
Big Tujunga Creek	Near Sunland, CA	1574.6	1/23/1943	N/A	USGS gage
Malibu Creek	At Crater Camp near Calabasas, CA	433.0	1/25/1969	N/A	USGS gage
Santa Clara River	450 feet downstream of I-5	797.5	11/15/1952	N/A	USGS gage
Santa Clara River	At Los Angeles County/Ventura County Line	1046.2	1/9/2005	N/A	USGS gage
Topanga Canyon	Near Topanga Beach, CA	268.2	1/25/1969	N/A	USGS gage

4.3 Non-Levee Flood Protection Measures

Table 8 contains information about non-levee flood protection measures within Los Angeles County such as dams, jetties, and or dikes. Levees are addressed in Section 4.4 of this FIS Report.

Table 8: Non-Levee Flood Protection Measures

Flooding Source	Structure Name	Type of Measure	Location	Description of Measure
Los Angeles River	Sepulveda Flood Control Basin	Earthen Dam	Los Angeles, California	Flood control facility that was constructed in response to the historic 1938 floods. It is designed to withhold winter flood waters along the Los Angeles River
San Gabriel River	Whittier Narrows Flood Control Basin	Earthen Dam	Montebello, California	Flood control facility that controls runoff originating in the northeastern portion of Los Angeles County. The Rio Hondo originates at Whittier Narrows Dam
Tujunga Wash	Hansen Flood Control Reservoir	Earthen Dam	Los Angeles, California	Flood control facility built in 1939 in response to significant flooding along the Tujunga Wash.

4.4 Levees

For purposes of the NFIP, FEMA only recognizes levee systems that meet, and continue to meet, minimum design, operation, and maintenance standards that are consistent with comprehensive floodplain management criteria. The Code of Federal Regulations, Title 44, Section 65.10 (44 CFR 65.10) describes the information needed for FEMA to determine if a levee system reduces the risk from the 1% annual chance flood. This information must be supplied to FEMA by the community or other party when a flood risk study or restudy is conducted, when FIRMs are revised, or upon FEMA request. FEMA reviews the information for the purpose of establishing the appropriate FIRM flood zone.

Levee systems that are determined to reduce the risk from the 1% annual chance flood are accredited by FEMA. FEMA can also grant provisional accreditation to a levee system that was previously accredited on an effective FIRM and for which FEMA is awaiting data and/or documentation to demonstrate compliance with Section 65.10. These levee systems are referred to as Provisionally Accredited Levees, or PALs. Provisional accreditation provides communities and levee owners with a specified timeframe to obtain the necessary data to confirm the levee's certification status. Accredited levee systems and PALs are shown on the FIRM using the symbology shown in Figure 3 and in Table 9. If the required information for a PAL is not submitted within the required timeframe, or if information indicates that a levee system no longer meets Section 65.10, FEMA will de-accredit the levee system and issue an effective FIRM showing the levee-impacted area as a SFHA.

FEMA coordinates its programs with USACE, who may inspect, maintain, and repair levee systems. The USACE has authority under Public Law 84-99 to supplement local efforts to repair flood control projects that are damaged by floods. Like FEMA, the USACE provides a program to allow public sponsors or operators to address levee system maintenance deficiencies. Failure to do so within the required timeframe results in the levee system being placed in an inactive status

in the USACE Rehabilitation and Inspection Program. Levee systems in an inactive status are ineligible for rehabilitation assistance under Public Law 84-99.

FEMA coordinated with the USACE, the local communities, and other organizations to compile a list of levees that exist within Los Angeles County. Table 9, "Levees," lists all accredited levees, PALs, and de-accredited levees shown on the FIRM for this FIS Report. Other categories of levees may also be included in the table. The Levee ID shown in this table may not match numbers based on other identification systems that were listed in previous FIS Reports. Levees identified as PALs in the table are labeled on the FIRM to indicate their provisional status.

Please note that the information presented in Table 9 is subject to change at any time. For that reason, the latest information regarding any USACE structure presented in the table should be obtained by contacting USACE and accessing the USACE national levee database. For levees owned and/or operated by someone other than the USACE, contact the local community shown in Table 31.

Table 9 : Levees

Community	Flooding Source	Levee Location	Levee Owner	USACE Levee	Levee ID	Covered Under PL84-99 Program?	FIRM Panel(s)
Bell, City of	Los Angeles River	Left Bank	USACE, LA District	Yes	1901057931	Yes	06037C1810F
Bell, City of	Los Angeles River	Right Bank	USACE, LA District	Yes	1901057921	Yes	06037C1810F
Bell Gardens, City of	Rio Hondo Channel	Right Bank	County of Los Angeles	Yes	1901057060	Yes	06037C1664F
Carson, City of	Compton Creek	Left Bank	County of Los Angeles	Yes	1901057139	Yes	06037C1815F
Carson, City of	Compton Creek	Right Bank	County of Los Angeles	Yes	1901057158	Yes	06037C1815F
Carson, City of	Dominguez Channel	Left Bank	County of Los Angeles	Yes	1901057016	No	06037C1935F
Carson, City of	Dominguez Channel	Right Bank	County of Los Angeles	Yes	1901057114	No	06037C1935F
Carson, City of	Dominguez Channel	Left Bank	County of Los Angeles	Yes	1901057202	No	06037C1935F
Carson, City of	Dominguez Channel	Right Bank	County of Los Angeles	Yes	1901057132	No	06037C1935F
Long Beach, City of	Los Angeles River	Right Bank	County of Los Angeles	Yes	1901057176	Yes	06037C1962F
Los Angeles County, Unincorporated Areas	Violin Canyon Creek	Right Bank	County of Los Angeles	Yes	1904057151	No	06037C0575F 06037C0600G 06037C0805G
Montebello, City of	Rio Hondo Channel	Right Bank	County of Los Angeles	Yes	1901057052	Yes	06037C1664F
Santa Clarita, City of	Bouquet Canyon Creek	Left Bank	County of Los Angeles	Yes	1901057140	No	06037C0810G 06037C0817G
Santa Clarita, City of	Bouquet Canyon Creek	Right Bank	County of Los Angeles	Yes	1905057909	No	06037C0810G 06037C0817G
Santa Clarita, City of	Santa Clara River	Left Bank	County of Los Angeles	Yes	1901057092	No	06037C0818G
Santa Clarita, City of	Santa Clara River	Right Bank	County of Los Angeles	Yes	1901057115	No	06037C0840G

Table 9: Levees , continued

Community	Flooding Source	Levee Location	Levee Owner	USACE Levee	Levee ID	Covered Under PL84-99 Program?	FIRM Panel(s)
Santa Clarita, City of	Santa Clara River	Left Bank	County of Los Angeles	Yes	1905081017	No	06037C0816G
Santa Clarita, City of	Santa Clara River	Right Bank	County of Los Angeles	Yes	1901057135	No	06037C0840G
Santa Clarita, City of	Santa Clara River	Right Bank	County of Los Angeles	Yes	1905057199	No	06037C0818G
Santa Clarita, City of	Santa Clara River	Right Bank	County of Los Angeles	Yes	1901057906	No	06037C0840G
Santa Clarita, City of	San Francisquito Canyon Creek	Right Bank	County of Los Angeles	Yes	1905057008	No	06037C0815G
South Gate, City of	Los Angeles River	Left Bank	County of Los Angeles	Yes	1901057053	Yes	06037C1815F
South Gate, City of	Los Angeles River	Right Bank	County of Los Angeles	Yes	1901057054	Yes	06037C1815F
South Gate, City of	Los Angeles River	Left Bank	USACE, LA District	Yes	1901057064	Yes	06037C1810F
Long Beach, City of	Coyote Creek	Right Bank	USACE, LA District	Yes	1901057050	Yes	06037C1990F
Santa Clarita, City of	Santa Clara River	Right Bank	USACE, LA District	No	1901057908	Unknown	06037C0840G
Long Beach, City of	San Gabriel River	Right Bank	USACE, LA District	Yes	1901057051	Yes	06037C1990F
Santa Clarita, City of	Bouquet Canyon Creek	Right Bank	USACE, LA District	No	1901057909	Unknown	06037C0810G 06037C0817G
Santa Clarita, City of	Santa Clara River	Left Bank	USACE, LA District	No	1901057183	No	06037C0840G
Santa Clarita, City of	Santa Clara River	Left Bank	USACE, LA District	No	1901057911	Unknown	06037C0840G
Santa Clarita, City of	South Fork Santa Clara River	Left Bank	USACE, LA District	No	1901058269	No	06037C0818G
Santa Clarita, City of	South Fork Santa Clara River	Left Bank	USACE, LA District	No	1905057092	No	06037C0818G