

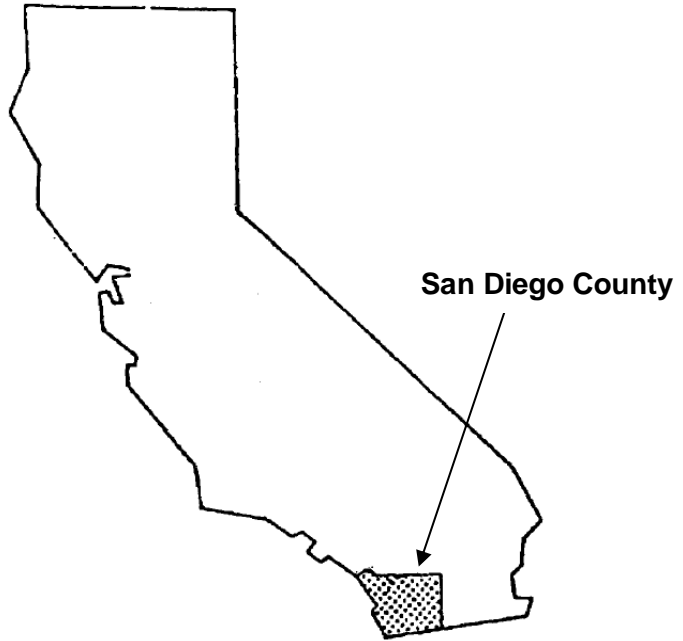
FLOOD INSURANCE STUDY



SAN DIEGO COUNTY, CALIFORNIA AND INCORPORATED AREAS

VOLUME 3 OF 11

Community Name	Community Number
SAN DIEGO COUNTY, UNINCORPORATED AREAS	060284
CARLSBAD, CITY OF	060285
CHULA VISTA, CITY OF	065021
CORONADO, CITY OF	060287
DEL MAR, CITY OF	060288
EL CAJON, CITY OF	060289
ENCINITAS, CITY OF	060726
ESCONDIDO, CITY OF	060290
IMPERIAL BEACH, CITY OF	060291
LA MESA, CITY OF	060292
LEMON GROVE, CITY OF	060723
NATIONAL CITY, CITY OF	060293
OCEANSIDE, CITY OF	060294
POWAY, CITY OF	060702
SAN DIEGO, CITY OF	060295
SAN MARCOS, CITY OF	060296
SANTEE, CITY OF	060703
SOLANA BEACH, CITY OF	060725
VISTA, CITY OF	060297



REVISED
4/5/2016



Federal Emergency Management Agency

FLOOD INSURANCE STUDY NUMBER
06073CV003D

**NOTICE TO
FLOOD INSURANCE STUDY USERS**

Communities participating in the National Flood Insurance Program have established repositories of flood hazard data for floodplain management and flood insurance purposes. This Flood Insurance Study (FIS) may not contain all data available within the repository. It is advisable to contact the community repository for any additional data.

Part or all of this FIS may be revised and republished at any time. In addition, part of this FIS may be revised by the Letter of Map Revision process, which does not involve republication or redistribution of the FIS. It is, therefore, the responsibility of the user to consult with community officials and to check the community repository to obtain the most current FIS components.

This FIS report was revised on April 5, 2016. Users should refer to Section 10.0, Revisions Description, for further information. Section 10.0 is intended to present the most up-to-date information for specific portions of this FIS report. Therefore, users of this report should be aware that the information presented in section 10.0 supersedes information in Sections 1.0 through 9.0 of this FIS report.

Initial Countywide FIS Effective Date: June 19, 1997

Revised Countywide FIS Dates: June 16, 1999
 January 19, 2001
 July 16, 2002
 September 29, 2006
 May 16, 2012
 April 5, 2016

ATTENTION: On FIRM panel 06073C2153G, the salt pond levee has not been demonstrated by the community or levee owner(s) to meet the requirements of Section 65.10 of the NFIP regulations in 44 CFR as it relates to the levee's capacity to provide 1-percent- annual -chance flood protection. The subject areas are identified on FIRM panels (with notes and bounding lines) and in the FIS report as potential areas of flood hazard data changes based on further review.

FEMA has updated the levee analysis and mapping procedures for non-accredited levees. Until such time as FEMA is able to initiate a new flood risk project to apply the new procedures, the flood hazard information on the aforementioned FIRM panel that are affected by the salt pond levee is being added as a snapshot of the prior previously effective information presented on the FIRMs and FIS reports dated June 19, 1997. As indicated above, it is expected that affected flood hazard data within the subject area could be significantly revised. This may result in floodplain boundary changes, 1-percent- annual -chance flood elevation changes, and/or changes to flood hazard zone designations.

The effective FIRM panels (and the FIS report) will again be revised at a later date to update the flood hazard information associated with the salt pond levee when FEMA is able to initiate and complete a new flood risk project to apply the updated levee analysis and mapping procedures.

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¹ Flooding source has been superseded by LOMR #09-09-0276P and has been removed from the FIS.

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PUBLISHED SEPARATELY: Flood Insurance Rate Map Index
Flood Insurance Rate Map

FLOODING SOURCE		FLOODWAY			1-PERCENT-ANNUAL-CHANCE FLOOD WATER-SURFACE ELEVATION (FEET NAVD)			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
Agua Hedionda Creek (At City of Carlsbad)								
ZV	2,835	1,020	2,206	4.5	12.5	12.5	12.6	0.1
ZW	3,310	980	2,595	3.8	14.6	14.6	14.7	0.1
ZX	3,760	955	2,144	4.6	15.9	15.9	15.9	0.0
ZY	4,640	770	2,069	4.8	22.2	22.2	22.2	0.0
ZZ	5,330	390	1,413	7.1	27.2	27.2	27.6	0.4

¹ Feet Above Mouth

TABLE 13

FEDERAL EMERGENCY MANAGEMENT AGENCY
SAN DIEGO COUNTY, CA
 AND INCORPORATED AREAS

FLOODWAY DATA

AGUA HEDIONDA CREEK (AT CITY OF CARLSBAD)

FLOODING SOURCE		FLOODWAY			1-PERCENT-ANNUAL-CHANCE FLOOD WATER-SURFACE ELEVATION (FEET NAVD)			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
Agua Hedionda Creek (At City of Carlsbad) (cont'd)								
A	6,140	318	1,452	6.8	34.7	34.7	34.8	0.1
B	6,480	310	1,820	5.4	37.2	37.2	37.2	0.0
C	6,925	117	708	14.0	40.8	40.8	40.8	0.0
D	7,030	118	1,036	9.6	43.6	43.6	43.6	0.0
E	7,260	109	946	10.4	44.2	44.2	44.2	0.0
F	7,410	98	661	14.9	45.7	45.7	45.7	0.0
G	8,015	300	1,799	4.5	50.4	50.4	50.5	0.1
H	8,350	93	944	8.6	50.4	50.4	50.7	0.3
I	8,745	97	908	8.9	51.0	51.0	51.3	0.3
J	9,320	106	927	8.7	52.1	52.1	52.7	0.6
K	9,850	73	526	15.4	54.1	54.1	54.1	0.0
L	10,620	300	1,136	7.1	62.6	62.6	63.2	0.6
M	11,185	200	832	9.7	64.4	64.4	64.4	0.0
N	11,650	200	945	8.5	68.7	68.7	69.7	1.0
O	12,100	465	1,559	5.2	72.0	72.0	72.9	0.9
P	12,590	372	1,326	5.9	75.7	75.7	76.3	0.6
Q	12,910	222	812	9.6	78.1	78.1	78.1	0.0
R	13,340	147	1,177	6.6	81.4	81.4	82.0	0.6
S	13,740	129	1,166	6.7	83.1	83.1	84.0	0.9
T	14,040	205	831	9.4	86.4	86.4	86.4	0.0
U	14,430	200	948	8.2	90.1	90.1	90.8	0.7
V	14,900	140	832	9.4	94.0	94.0	94.7	0.7
W	15,360	130	836	9.3	99.5	99.5	99.5	0.0
X	15,560	153	673	11.6	104.6	104.6	105.3	0.7

¹Feet Above Mouth

TABLE 13

FEDERAL EMERGENCY MANAGEMENT AGENCY
SAN DIEGO COUNTY, CA
 AND INCORPORATED AREAS

FLOODWAY DATA

AGUA HEDIONDA CREEK (AT CITY OF CARLSBAD)

FLOODING SOURCE		FLOODWAY			1-PERCENT-ANNUAL-CHANCE FLOOD WATER-SURFACE ELEVATION (FEET NAVD)			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
Agua Hedionda Creek (At City of Vista)								
A	-200	283	749	9.4	354.8	354.8	354.8	0.0
B	60	260	-- ²	-- ²	356.8	356.8	356.8	0.0
C	673	160	-- ²	-- ²	366.3	366.3	366.3	0.0
D	820	-- ²	-- ²	-- ²	-- ²	-- ²	-- ²	-- ²
E	1,087	80	-- ²	-- ²	389.0	389.0	389.0	0.0
F	1,350	81	814	3.3	389.0	389.0	389.0	0.0
G	1,772	302	2,783	1.0	389.2	389.2	389.2	0.0
H	2,202	260	-- ²	-- ²	389.2	389.2	389.2	0.0
I	2,462	222	1,789	1.5	389.2	389.2	389.2	0.0
J	2,678	400	-- ²	-- ²	389.3	389.3	389.3	0.0
K	3,281	50	-- ²	-- ²	391.6	391.6	391.6	0.0
L	3,506	145	584	4.6	393.3	393.3	393.3	0.0
M	3,963	220	989	2.7	399.1	399.1	399.3	0.2
N	4,392	130	722	3.7	403.5	403.5	403.5	0.0
O	5,264	105	299	9.0	411.1	411.1	411.1	0.0
P	5,518	128	464	5.8	413.6	413.6	413.7	0.1
Q	5,770	75	255	10.6	416.1	416.1	416.2	0.1
R	6,118	214	1,104	2.5	422.9	422.9	423.6	0.7
S	6,748	117	301	9.0	433.6	433.6	433.6	0.0
T	7,091	85	371	5.7	440.9	440.9	441.0	0.1
U	7,534	125	277	7.6	443.7	443.7	443.7	0.0
V	7,911	120	325	6.5	450.4	450.4	450.4	0.0
W	8,301	83	221	9.5	457.5	457.5	457.5	0.0
X	8,670	72	211	10.0	465.7	465.7	465.7	0.0
Y	8,987	45	185	11.4	467.6	467.6	467.6	0.0
Z	9,446	40	175	12.0	477.8	477.8	478.0	0.2

¹ Distance above confluence with Buena Creek

² Data not available

TABLE 13

FEDERAL EMERGENCY MANAGEMENT AGENCY
SAN DIEGO COUNTY, CA
 AND INCORPORATED AREAS

FLOODWAY DATA

AGUA HEDIONDA CREEK (AT CITY OF VISTA)

FLOODING SOURCE		FLOODWAY			1-PERCENT-ANNUAL-CHANCE FLOOD WATER-SURFACE ELEVATION (FEET NAVD)			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
Agua Hedionda Creek (At City of Vista) (cont'd)								
AA	9,946	25	150	14.0	486.7	486.7	487.0	0.3
AB	10,207	35	185	11.4	491.6	491.6	492.2	0.6
AC	10,610	200	951	2.2	528.9	528.9	529.9	1.0

¹ Feet Above Confluence with Buena Creek

TABLE 13

FEDERAL EMERGENCY MANAGEMENT AGENCY
SAN DIEGO COUNTY, CA
 AND INCORPORATED AREAS

FLOODWAY DATA

AGUA HEDIONDA CREEK (AT CITY OF VISTA)

FLOODING SOURCE		FLOODWAY			1-PERCENT-ANNUAL-CHANCE FLOOD WATER-SURFACE ELEVATION (FEET NAVD)			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
Alvarado Creek								
A-P	-- ²	-- ²	-- ²	-- ²	-- ²	-- ²	-- ²	-- ²
Q	16,284	43	273	14.3	341.9	341.9	341.9	0.0
R	17,320	27	208	15.9	350.3	350.3	350.3	0.0
S	21,067	33	206	9.7	383.0	383.0	383.0	0.0
T	21,497	33	149	12.1	385.4	385.4	385.4	0.0
U	22,933	33	250	7.2	404.6	404.6	404.6	0.0
V	24,278	379	289	6.2	417.8	417.8	418.6	0.8
W	24,958	60	636	4.7	424.8	424.8	425.4	0.6
X	26,122	57	308	5.2	432.7	432.7	432.7	0.0
Y	26,425	27	144	11.1	441.6	441.6	441.6	0.0
Z	26,707	28	181	8.8	446.3	446.3	446.4	0.1
AA	26,898	32	202	7.9	448.9	448.9	449.4	0.5
AB	27,235	32	260	6.1	453.4	453.4	454.0	0.6
AC	27,408	34	270	5.9	455.4	455.4	456.3	0.9
AD	27,605	25	215	10.7	456.2	456.2	456.9	0.7

¹ Feet Above Confluence with San Diego River

² Data Not Available

TABLE 13

FEDERAL EMERGENCY MANAGEMENT AGENCY
SAN DIEGO COUNTY, CA
 AND INCORPORATED AREAS

FLOODWAY DATA

ALVARADO CREEK

FLOODING SOURCE		FLOODWAY			1-PERCENT-ANNUAL-CHANCE FLOOD WATER-SURFACE ELEVATION (FEET NAVD)			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
Beaver Hollow Creek								
A	2,700	62	414	9.7	1,077.9	1,077.9	1,078.9	1.0
B	3,150	58	361	11.1	1,089.0	1,089.0	1,089.1	0.1
C	3,520	56	361	11.1	1,094.6	1,094.6	1,094.6	0.0
D	3,767	85	399	10.0	1,099.9	1,099.9	1,100.1	0.2
E	3,912	89	633	6.3	1,102.2	1,102.2	1,102.7	0.5
F	3,932	95	604	6.6	1,104.1	1,104.1	1,104.1	0.0
G	4,092	69	363	11.0	1,106.7	1,106.7	1,106.9	0.2
H	4,372	51	310	12.9	1,114.1	1,114.1	1,114.1	0.0
I	4,712	66	353	11.3	1,124.9	1,124.9	1,125.1	0.2
J	5,132	57	339	11.8	1,130.0	1,130.0	1,130.6	0.6
K	5,482	77	380	10.5	1,135.9	1,135.9	1,136.1	0.2
L	5,814	97	416	9.6	1,148.4	1,148.4	1,149.0	0.6
M	6,294	62	362	11.0	1,169.8	1,169.8	1,169.8	0.0
N	6,524	94	616	6.5	1,172.8	1,172.8	1,173.1	0.3
O	6,954	91	405	9.9	1,177.3	1,177.3	1,177.6	0.3
P	7,354	55	322	12.4	1,186.3	1,186.3	1,186.3	0.0
Q	7,704	146	424	9.4	1,199.6	1,199.6	1,199.6	0.0
R	7,934	69	390	10.3	1,203.1	1,203.1	1,203.3	0.2
S	8,364	48	308	13.0	1,213.0	1,213.0	1,213.0	0.0
T	8,698	57	302	13.2	1,225.7	1,225.7	1,225.7	0.0
U	9,098	49	334	12.0	1,235.2	1,235.2	1,235.2	0.0
V	9,416	61	339	11.8	1,249.0	1,249.0	1,249.0	0.0
W	9,836	64	346	10.1	1,270.7	1,270.7	1,270.7	0.0
X	10,216	68	296	11.8	1,293.7	1,293.7	1,293.7	0.0
Y	10,536	46	256	13.7	1,306.6	1,306.6	1,306.6	0.0
Z	10,948	51	315	11.1	1,335.5	1,335.5	1,335.5	0.0

¹ Feet Above Confluence with Sweetwater River

TABLE 13

FEDERAL EMERGENCY MANAGEMENT AGENCY
SAN DIEGO COUNTY, CA
 AND INCORPORATED AREAS

FLOODWAY DATA

BEAVER HOLLOW CREEK

FLOODING SOURCE		FLOODWAY			1-PERCENT-ANNUAL-CHANCE FLOOD WATER-SURFACE ELEVATION (FEET NAVD)			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
Beaver Hollow Creek (cont'd)								
AA	11,197	42	254	13.8	1,342.9	1,342.9	1,342.9	0.0
AB	11,597	44	293	12.0	1,359.0	1,359.0	1,359.0	0.0
AC	11,867	40	243	14.4	1,368.4	1,368.4	1,368.4	0.0
AD	12,217	45	248	14.1	1,375.4	1,375.4	1,375.5	0.1
AE	12,629	41	243	14.5	1,386.4	1,386.4	1,386.4	0.0
AF	12,799	106	375	9.3	1,397.7	1,397.7	1,397.8	0.1
AG	12,933	94	787	4.5	1,404.3	1,404.3	1,405.0	0.7
AH	13,183	50	275	12.8	1,405.1	1,405.1	1,405.1	0.0
AI	13,466	79	332	10.6	1,410.9	1,410.9	1,410.9	0.0
AJ	13,640	139	538	6.5	1,418.9	1,418.9	1,418.9	0.0
AK	13,650	134	518	6.8	1,418.9	1,418.9	1,418.9	0.0
AL	13,856	63	301	11.7	1,423.6	1,423.6	1,423.6	0.0
AM	14,025	38	284	12.4	1,424.7	1,424.7	1,424.7	0.0
AN	14,292	80	369	9.5	1,438.8	1,438.8	1,438.8	0.0
AO	14,530	37	271	13.0	1,449.1	1,449.1	1,449.1	0.0

¹ Feet Above Confluence with Sweetwater River

TABLE 13

FEDERAL EMERGENCY MANAGEMENT AGENCY
SAN DIEGO COUNTY, CA
 AND INCORPORATED AREAS

FLOODWAY DATA

BEAVER HOLLOW CREEK

FLOODING SOURCE		FLOODWAY			1-PERCENT-ANNUAL-CHANCE FLOOD WATER-SURFACE ELEVATION (FEET NAVD)			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
Beeler Creek								
A	440	201	916	3.9	426.3	426.3	426.7	0.4
B	1,025	106	609	5.9	429.5	429.5	429.8	0.3
C	1,450	87	322	11.2	432.3	432.3	432.4	0.1
D	2,175	117	390	9.2	439.0	439.0	439.0	0.0
E	2,680	178	705	5.1	446.6	446.6	446.6	0.0
F	3,680	275	495	7.3	460.3	460.3	460.3	0.0
G	4,390	160	618	10.3	469.7	469.7	469.7	0.0
H	5,285	235	567	10.3	480.0	480.0	480.2	0.2
I	6,200	200	913	3.9	491.2	491.2	491.5	0.3
J	7,305	300	1,607	2.2	500.6	500.6	500.6	0.0
K	8,120	230	702	5.1	507.1	507.1	507.1	0.0
L	8,780	247	503	7.2	516.6	516.6	516.7	0.1
M	9,755	125	369	9.8	529.3	529.3	529.3	0.0
N	10,835	97	357	10.1	544.3	544.1	544.5	0.4
O	11,735	148	264	7.2	552.5	552.5	552.5	0.0
P	12,770	233	343	5.5	567.6	567.6	567.6	0.0
Q	13,540	298	386	4.9	579.0	579.0	579.0	0.0
R	14,720	133	208	6.7	600.1	600.1	600.4	0.3
S	15,480	277	354	4.0	608.1	608.1	608.1	0.0
T	16,460	226	275	5.1	621.5	621.5	621.7	0.2
U	17,380	331	370	3.8	633.2	633.2	633.2	0.0
V	17,850	142	259	5.4	639.6	639.6	639.6	0.0

¹ Feet Above Confluence with Poway Creek

TABLE 13

FEDERAL EMERGENCY MANAGEMENT AGENCY
SAN DIEGO COUNTY, CA
 AND INCORPORATED AREAS

FLOODWAY DATA

BEELER CREEK

FLOODING SOURCE		FLOODWAY			1-PERCENT-ANNUAL-CHANCE FLOOD WATER-SURFACE ELEVATION (FEET NAVD)			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
Broadway Creek								
A	450	25	76	9.6	379.7	379.7	379.7	0.0
B	1,800	33	125	5.1	382.2	382.2	382.2	0.0
C	2,233	49	254	2.5	385.8	385.8	385.8	0.0
D	2,700	35	104	5.0	388.3	388.3	388.3	0.0
E	3,240	288	331	3.7	391.3	391.3	391.3	0.0
F	3,800	165	364	3.2	394.1	394.1	394.7	0.6
G	4,400	26	103	11.4	396.9	396.9	397.0	0.1
H	5,400	43	209	4.9	405.4	405.4	405.7	0.3
I	5,800	32	176	5.8	405.8	405.8	406.6	0.8
J	6,350	217	516	2.0	412.6	412.6	413.6	1.0
K	7,400	272	663	1.4	417.9	417.9	418.1	0.2
L	7,910	145	317	2.8	421.5	421.5	421.7	0.2
M	8,425	19	85	10.6	422.8	422.8	422.9	0.1
N	9,135	20	104	8.7	426.8	426.8	426.8	0.0
O	10,010	17	51	17.6	432.8	432.8	432.8	0.0
P	10,600	16	38	24.0	436.9	436.9	436.9	0.0
Q	12,615	20	60	12.5	460.8	460.8	461.6	0.8
R	13,915	20	50	15.9	470.7	470.7	470.9	0.2

¹ Feet Above Confluence with Foster Creek

TABLE 13

FEDERAL EMERGENCY MANAGEMENT AGENCY
SAN DIEGO COUNTY, CA
 AND INCORPORATED AREAS

FLOODWAY DATA

BROADWAY CREEK

FLOODING SOURCE		FLOODWAY			1-PERCENT-ANNUAL-CHANCE FLOOD WATER-SURFACE ELEVATION (FEET NAVD)			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
Buena Creek								
A	729	-- ³	-- ³	-- ³	362.3	362.3	362.3	0.0
B	978	-- ³	-- ³	-- ³	365.3	365.3	365.3	0.0
C	1,220	-- ³	-- ³	-- ³	369.0	369.0	369.0	0.0
D	1,471	-- ³	-- ³	-- ³	369.1	369.1	369.1	0.0
E	1,660	-- ³	-- ³	-- ³	369.3	369.3	369.3	0.0
F	1,890	-- ³	-- ³	-- ³	369.5	369.5	369.5	0.0
G	2,113	165	569	7.2	369.8	369.8	370.1	0.3
H	2,209	-- ³	-- ³	-- ³	370.3	370.3	370.3	0.0
I	2,400	184	1,091	3.8	371.3	371.3	372.3	1.0
J	2,671	90	732	5.6	373.2	373.2	374.1	0.9
K	2,871	130	846	4.9	374.8	374.8	375.5	0.7
L	3,171	148	1,258	3.3	376.6	376.6	377.1	0.5
M	3,471	155	1,226	3.3	378.7	378.7	379.2	0.5
N	3,771	284	859	4.8	379.1	379.1	379.1	0.0
O	3,971	180	829	4.9	383.0	383.0	384.0	1.0
P	4,178	90	656	6.3	384.6	384.6	385.1	0.5
Q	5,260	-- ³	-- ³	-- ³	393.5	393.5	393.5	0.0
R	5,960	-- ³	-- ³	-- ³	398.5	398.5	398.5	0.0
S	-- ²	-- ²	-- ²	-- ²	-- ²	-- ²	-- ²	-- ²
T	-- ²	-- ²	-- ²	-- ²	-- ²	-- ²	-- ²	-- ²
U	-- ²	-- ²	-- ²	-- ²	-- ²	-- ²	-- ²	-- ²
V	7,476	-- ³	-- ³	-- ³	415.3	415.3	415.3	0.0
W	7,712	181	608	5.7	416.3	416.3	417.1	0.8
X	7,967	-- ³	823	4.2	418.6	418.6	418.7	0.1
Y	8,213	307	473	7.3	419.7	419.7	419.7	0.0
Z	8,455	291	544	6.4	422.6	422.6	422.6	0.0

¹ Feet Above Confluence with Agua Hedionda Creek

² 1-Percent Annual Chance Flood Contained in Culvert

³ Data Not Available

TABLE 13

FEDERAL EMERGENCY MANAGEMENT AGENCY
SAN DIEGO COUNTY, CA
 AND INCORPORATED AREAS

FLOODWAY DATA

BUENA CREEK

FLOODING SOURCE		FLOODWAY			1-PERCENT-ANNUAL-CHANCE FLOOD WATER-SURFACE ELEVATION (FEET NAVD)			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
Buena Creek (cont'd)								
AA	8,654	314	621	5.9	424.4	424.4	424.4	0.0
AB	8,702	290	493	7.5	425.1	425.1	425.2	0.1
AC	8,771	248	497	7.4	425.7	425.7	425.7	0.0
AD	8,811	210	479	7.7	426.4	426.4	426.4	0.0
AE	8,860	190	433	8.0	427.4	427.4	427.6	0.2
AF	9,199	173	724	4.8	433.7	433.7	433.8	0.1
AG	9,378	214	784	4.4	435.4	435.4	435.6	0.2
AH	9,630	224	1,089	3.2	443.8	443.8	443.9	0.1
AI	9,764	169	899	3.8	443.8	443.8	443.9	0.1
AJ	9,994	71	603	5.7	446.2	446.2	446.5	0.3
AK	10,431	130	671	5.2	451.3	451.3	452.0	0.7
AL	10,613	83	462	7.5	452.7	452.7	453.1	0.4
AM	10,862	73	301	11.5	456.1	456.1	456.1	0.0
AN	10,917	130	385	9.6	461.4	461.4	461.4	0.0
AO	11,182	87	376	9.8	463.6	463.6	464.1	0.5
AP	11,433	98	571	6.5	466.6	466.6	467.1	0.5
AQ	11,684	85	353	10.5	469.1	469.1	469.1	0.0
AR	11,895	110	425	8.7	472.2	472.2	472.5	0.3
AS	12,108	75	327	11.3	478.8	478.8	478.8	0.0
AT	12,347	180	666	5.0	482.2	482.2	482.7	0.5
AU	12,782	371	905	3.6	490.8	490.8	490.8	0.0
AV	12,844	400	469	7.0	491.7	491.7	491.8	0.1
AW	13,067	372	680	3.7	493.4	493.4	493.7	0.3
AX	13,331	133	327	7.6	499.3	499.3	499.4	0.1
AY	13,578	142	301	8.3	504.3	504.3	504.3	0.0
AZ	13,835	67	251	10.0	510.5	510.5	510.5	0.0

¹ Feet Above Confluence with Agua Hedionda Creek

TABLE 13

FEDERAL EMERGENCY MANAGEMENT AGENCY
SAN DIEGO COUNTY, CA
 AND INCORPORATED AREAS

FLOODWAY DATA

BUENA CREEK

FLOODING SOURCE		FLOODWAY			1-PERCENT-ANNUAL-CHANCE FLOOD WATER-SURFACE ELEVATION (FEET NAVD)			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
Buena Creek (cont'd)								
BA	14,084	40	197	12.7	515.3	515.3	515.8	0.5
BB	14,335	108	297	8.4	524.3	524.3	524.3	0.0
BC	14,573	135	325	7.7	529.4	529.4	529.6	0.2
BD	14,823	100	272	9.2	535.4	535.4	535.8	0.4
BE	15,070	125	310	8.1	544.6	544.6	544.8	0.2
BF	15,313	63	254	9.8	547.9	547.9	548.3	0.4
BG	15,550	46	206	12.1	554.4	554.4	555.2	0.8
BH	15,791	84	280	8.9	560.7	560.7	560.9	0.2
BI	16,048	39	195	12.8	567.5	567.5	567.7	0.2
BJ	16,276	98	299	8.4	572.9	572.9	573.4	0.5
BK	16,528	80	247	10.1	579.4	579.4	579.4	0.0
BL	16,774	68	263	9.5	583.4	583.4	583.6	0.2
BM	17,016	49	210	11.9	587.5	587.5	587.5	0.0
BN	17,270	43	202	12.4	596.8	596.8	596.8	0.0
BO	17,510	53	216	11.6	602.4	602.4	602.4	0.0
BP	17,570	55	212	11.8	606.6	606.6	606.6	0.0
BQ	17,715	53	223	11.2	611.7	611.7	611.7	0.0
BR	18,020	50	210	11.9	618.6	618.6	618.6	0.0
BS	18,267	35	222	11.3	622.6	622.6	622.7	0.1
BT	18,280	70	358	5.5	622.9	-- ²	-- ²	-- ²
BU	18,360	49	442	4.5	624.6	624.6	625.5	0.9
BV	18,420	62	621	3.2	632.1	632.1	632.1	0.0
BW	18,670	56	200	5.5	632.2	632.2	632.2	0.0
BX	18,840	31	283	3.9	638.7	638.7	638.7	0.0
BY	18,945	20	249	4.4	644.5	644.5	644.5	0.0
BZ	18,975	31	219	5.0	644.6	644.6	644.6	0.0

¹ Feet Above Confluence with Agua Hedionda Creek

² Data Not Available

TABLE 13

FEDERAL EMERGENCY MANAGEMENT AGENCY
SAN DIEGO COUNTY, CA
AND INCORPORATED AREAS

FLOODWAY DATA

BUENA CREEK

FLOODING SOURCE		FLOODWAY			1-PERCENT-ANNUAL-CHANCE FLOOD WATER-SURFACE ELEVATION (FEET NAVD)			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
Buena Creek (cont'd)								
CA	19,150	26	98	11.2	649.7	649.7	650.0	0.3
CB	19,260	32	108	10.2	653.6	653.6	653.9	0.3
CC	19,283	20	183	6.0	658.9	658.9	658.9	0.0
CD	19,503	53	185	5.9	659.3	659.3	659.3	0.0
CE	19,543	61	252	4.4	664.8	664.8	664.8	0.0
CF	19,708	57	282	3.9	665.1	665.1	665.1	0.0
CG	19,928	27	100	11.0	668.1	668.1	668.1	0.0
CH	20,148	31	105	10.5	676.5	676.5	676.5	0.0

¹ Feet Above Confluence with Agua Hedionda Creek

TABLE 13

FEDERAL EMERGENCY MANAGEMENT AGENCY
SAN DIEGO COUNTY, CA
 AND INCORPORATED AREAS

FLOODWAY DATA

BUENA CREEK

FLOODING SOURCE		FLOODWAY			1-PERCENT-ANNUAL-CHANCE FLOOD WATER-SURFACE ELEVATION (FEET NAVD)			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
Buena Vista Creek								
A	8,678	133	1,267	6.7	31.4	31.4	31.5	0.1
B	9,469	140	1,173	7.2	33.6	33.6	33.6	0.0
C	10,054	74	542	15.5	35.0	35.0	35.0	0.0
D	10,348	226	2,940	2.9	42.0	42.0	42.4	0.4
E	10,884	468	3,904	2.2	42.1	42.1	42.6	0.5
F	11,550	434	3,137	2.6	42.2	42.2	43.0	0.8
G	12,248	449	1,860	4.3	43.0	43.0	43.8	0.8
H	12,788	356	1,502	5.3	45.4	45.4	46.1	0.7
I	13,541	313	1,286	6.2	51.9	51.9	52.3	0.4
J	14,543	341	1,074	7.4	59.2	59.2	60.1	0.9
K	15,287	215	887	9.0	69.0	69.0	69.2	0.2
L	16,002	280	1,234	6.5	75.7	75.7	76.6	0.9
M	16,150	385	2,121	3.8	80.4	80.4	81.3	0.9
N	17,040	189	1,016	7.9	91.5	91.5	92.0	0.5
O	17,526	260	717	11.2	103.9	103.9	104.0	0.1
P	17,910	68	918	8.7	148.7	148.7	148.7	0.0
Q	18,367	129	1,139	7.0	165.1	165.1	165.1	0.0
R	18,759	232	1,681	4.8	167.4	167.4	167.4	0.0
S	19,320	112	949	8.4	172.8	172.8	172.8	0.0
T	20,155	186	1,323	6.0	178.1	178.1	178.1	0.0
U	20,662	155	979	8.2	179.8	179.8	179.8	0.0
V	21,042	151	741	10.8	182.8	182.8	182.8	0.0
W	21,531	125	636	12.6	188.5	188.5	188.5	0.0
X	21,916	58	483	16.6	194.4	194.4	194.4	0.0
Y	22,284	136	687	11.6	197.2	197.2	197.2	0.0
Z	22,784	136	714	11.2	200.1	200.1	200.1	0.0

¹ Feet Above Mouth

TABLE 13

FEDERAL EMERGENCY MANAGEMENT AGENCY
SAN DIEGO COUNTY, CA
 AND INCORPORATED AREAS

FLOODWAY DATA

BUENA VISTA CREEK

FLOODING SOURCE		FLOODWAY			1-PERCENT-ANNUAL-CHANCE FLOOD WATER-SURFACE ELEVATION (FEET NAVD)			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
Buena Vista Creek (cont'd)								
AA	23,281	91	842	9.5	205.2	205.2	205.2	0.0
AB	23,528	112	1,006	8.0	207.0	207.0	207.0	0.0
AC	24,095	170	908	8.8	209.7	209.7	209.7	0.0
AD	24,650	59	621	12.9	213.8	213.8	213.8	0.0
AE	24,985	73	806	9.9	216.3	216.3	217.1	0.8
AF	25,784	96	664	12.0	223.2	223.2	223.7	0.5
AG	26,343	125	1,160	6.9	229.4	229.4	229.7	0.3
AH	26,607	110	726	11.0	230.5	230.5	230.7	0.2
AI	26,823	109	1,051	7.4	234.4	234.4	234.4	0.0
AJ	27,023	114	966	8.1	237.3	237.3	237.3	0.0
AK	27,476	128	1,083	7.2	239.6	239.6	239.6	0.0
AL	27,763	235	957	8.2	241.1	241.1	241.1	0.0
AM	28,012	339	1,325	5.9	244.3	244.3	244.3	0.0
AN	28,231	328	1,691	4.6	247.6	247.6	247.6	0.0
AO	28,516	170	880	8.9	248.0	248.0	248.0	0.0
AP	28,746	92	550	14.2	250.4	250.4	250.5	0.1
AQ	29,196	173	721	10.8	262.1	262.1	262.1	0.0
AR	30,223	94	565	13.8	273.8	273.8	273.8	0.0
AS	30,461	152	1,060	7.4	278.0	278.0	278.1	0.1
AT	30,683	119	747	10.4	283.2	283.2	283.4	0.2
AU	31,100	168	989	7.9	286.0	286.0	286.8	0.8
AV	31,250	118	781	10.0	287.4	287.4	287.4	0.0
AW	31,415	161	1,465	5.3	291.5	291.5	291.5	0.0
AX	32,162	160	737	9.9	296.0	296.0	296.0	0.0
AY	32,711	240	1,620	5.8	300.9	300.9	301.0	0.1
AZ	33,184	180	1,395	4.5	301.3	301.3	301.6	0.3

¹ Feet Above Mouth

TABLE 13

FEDERAL EMERGENCY MANAGEMENT AGENCY
SAN DIEGO COUNTY, CA
AND INCORPORATED AREAS

FLOODWAY DATA

BUENA VISTA CREEK

FLOODING SOURCE		FLOODWAY			1-PERCENT-ANNUAL-CHANCE FLOOD WATER-SURFACE ELEVATION (FEET NAVD)			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
Buena Vista Creek (cont'd)								
BA	33,987	205	947	7.0	304.2	304.2	304.2	0.0
BB	35,154	91	808	11.0	307.1	307.1	307.1	0.0
BC	35,675	110	1,400	4.5	314.2	314.2	314.2	0.0
BD	35,832	64	752	8.4	314.2	314.2	314.2	0.0
BE	37,406	124	1,164	4.4	316.5	316.5	317.5	1.0
BF	38,045	34	187	19.9	317.9	317.9	317.9	0.0
BG	39,313	28	179	14.4	333.1	332.5	332.5	0.0
BH	41,360	166	427	4.0	350.2	350.2	351.0	0.8
BI	41,705	42	212	10.9	352.0	352.0	352.0	0.0
BJ	41,988	50	200	11.5	356.1	356.1	356.1	0.0
BK	42,268	40	184	12.5	360.1	360.1	360.1	0.0
BL	42,588	65	227	11.3	370.1	370.1	370.2	0.1
BM	42,689	30	169	13.6	371.5	371.5	371.5	0.0
BN	42,819	53	253	9.1	374.3	374.3	374.3	0.0
BO	43,048	35	178	13.0	375.7	375.7	375.7	0.0
BP	43,438	178	317	8.6	387.0	387.0	387.0	0.0

¹ Feet Above Mouth

TABLE 13

FEDERAL EMERGENCY MANAGEMENT AGENCY
SAN DIEGO COUNTY, CA
 AND INCORPORATED AREAS

FLOODWAY DATA

BUENA VISTA CREEK

FLOODING SOURCE		FLOODWAY			1-PERCENT-ANNUAL-CHANCE FLOOD WATER-SURFACE ELEVATION (FEET NAVD)			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
Buena Vista Creek Tributary 1								
A	134	153	255	4.0	414.8	414.8	414.8	0.0
B	754	46	130	7.8	423.5	423.5	423.5	0.0
C	1,586	94	318	3.2	436.1	436.1	436.1	0.0
D	1,805	123	160	6.3	441.2	441.2	441.2	0.0
E	2,030	72	356	2.8	444.1	444.1	444.1	0.0
F	2,515	39	105	9.6	447.4	447.4	447.7	0.3
G	2,905	65	199	5.1	454.2	454.2	455.2	1.0
H	3,269	24	91	11.1	462.0	462.0	462.4	0.4
I	3,662	49	210	4.8	468.1	468.1	468.9	0.8
J	4,043	63	126	8.0	478.3	478.3	478.3	0.0

¹ Feet Above Headwall Culvert at Monte Vista Drive and South Santa Fe Avenue

TABLE 13

FEDERAL EMERGENCY MANAGEMENT AGENCY
SAN DIEGO COUNTY, CA
 AND INCORPORATED AREAS

FLOODWAY DATA

BUENA VISTA CREEK TRIBUTARY 1

FLOODING SOURCE		FLOODWAY			1-PERCENT-ANNUAL-CHANCE FLOOD WATER-SURFACE ELEVATION (FEET NAVD)			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
Calavera Creek								
A	140	76	300	3.0	50.2 ²	46.2	46.9	0.7
B	430	43	193	4.7	50.2 ²	46.9	47.4	0.4
C	647	51	228	4.0	50.2 ²	47.8	48.0	0.3
D	1,083	44	210	4.3	50.2 ²	49.0	49.1	0.1
E	1,313	49	214	4.3	50.2 ²	49.7	49.8	0.1
F	1,583	38	168	5.4	50.7	50.7	50.7	0.0
G	1,933	41	174	5.2	52.4	52.4	52.4	0.0
H	2,533	44	193	4.7	57.7	57.7	57.7	0.0
I	2,811	46	186	4.9	58.7	58.7	58.7	0.0
J	3,101	45	204	4.5	59.6	59.6	59.6	0.0
K	3,530	50	101	6.2	61.1	61.1	61.1	0.0

¹ Feet Above Confluence with Agua Hedionda Creek (At City of Carlsbad)

² Elevations computed with consideration of backwater effects from Agua Hedionda Creek (A)

TABLE 13

FEDERAL EMERGENCY MANAGEMENT AGENCY
SAN DIEGO COUNTY, CA
 AND INCORPORATED AREAS

FLOODWAY DATA

CALAVERA CREEK

FLOODING SOURCE		FLOODWAY			1-PERCENT-ANNUAL-CHANCE FLOOD WATER-SURFACE ELEVATION (FEET NAVD)			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
Carmel Valley Creek								
A	0	327	990	9.9	14.4	14.4	14.4	0.0
B	93	482	1,199	8.2	28.1	28.1	28.1	0.0
C	380	740	3,161	3.1	29.8	29.8	29.8	0.0
D	570	760	9,079	1.1	29.9	29.9	30.0	0.1
E	900	670	6,620	1.2	30.0	30.0	30.0	0.0
F	1,380	320	1,713	4.7	30.1	30.1	30.1	0.0
G	1,920	642	2,515	3.2	30.4	30.4	31.0	0.6
H	2,820	570	1,519	5.3	31.2	31.2	32.2	1.0
I	3,410	150	741	10.9	35.2	35.2	35.3	0.1
J	3,750	167	782	10.3	38.5	38.5	39.2	0.7
K	4,560	150	904	8.2	47.0	47.0	47.5	0.5
L	4,950	200	960	7.7	49.8	49.8	50.8	1.0
M	5,320	175	1,071	6.9	53.2	53.2	53.3	0.1
N	5,680	230	1,027	7.2	54.9	54.9	55.7	0.8
O	5,960	270	1,157	6.4	57.2	57.2	57.8	0.6
P	6,900	115	650	11.4	65.3	65.3	66.0	0.7
Q	7,340	160	1,267	5.9	70.3	70.3	70.9	0.6
R	7,840	130	735	10.1	72.0	72.0	72.9	0.9
S	8,380	175	935	6.7	76.4	76.4	77.1	0.7
T	8,930	155	682	9.2	79.6	79.6	79.8	0.2
U	9,290	230	1,292	4.9	81.4	81.4	82.3	0.9
V	10,025	230	799	7.9	84.6	84.6	84.8	0.2
W	10,736	80	581	9.1	86.7	86.7	87.3	0.6
X	11,391	185	1,566	3.4	90.0	90.0	90.5	0.5
Y	11,942	164	1,196	4.4	90.3	90.3	90.7	0.4
Z	12,630	188	1,167	4.5	95.3	95.3	95.3	0.0

¹ Feet Above Cross Section A (125 Feet Downstream From Center of Sorrento Valley Road)

TABLE 13

FEDERAL EMERGENCY MANAGEMENT AGENCY
SAN DIEGO COUNTY, CA
 AND INCORPORATED AREAS

FLOODWAY DATA

CARMEL VALLEY CREEK

FLOODING SOURCE		FLOODWAY			1-PERCENT-ANNUAL-CHANCE FLOOD WATER-SURFACE ELEVATION (FEET NAVD)			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
Carmel Valley Creek (cont'd)								
AA	13,349	188	1,358	3.9	100.1	100.1	100.1	0.0
AB	14,565	156	991	5.3	106.4	106.4	106.4	0.0
AC	15,453	249	1,781	3.0	108.2	108.2	108.2	0.0
AD	16,014	244	557	8.8	118.1	118.1	118.1	0.0
AE	16,178	250	713	6.9	121.0	121.0	121.0	0.0
AF	17,148	152	860	5.7	126.3	126.3	127.1	0.8
AG	17,778	395	1,249	3.9	128.4	128.4	129.4	1.0

¹ Feet Above Cross Section A (125 Feet Downstream From Center of Sorrento Valley Road)

TABLE 13

FEDERAL EMERGENCY MANAGEMENT AGENCY
SAN DIEGO COUNTY, CA
 AND INCORPORATED AREAS

FLOODWAY DATA

CARMEL VALLEY CREEK

FLOODING SOURCE		FLOODWAY			1-PERCENT-ANNUAL-CHANCE FLOOD WATER-SURFACE ELEVATION (FEET NAVD)			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
Carroll Canyon Creek								
A	0	147	614	10.9	67.1	67.1	67.1	0.0
B	20	150	906	7.4	67.9	67.9	68.9	1.0
C	330	204	969	6.9	70.6	70.6	70.6	0.0
D	850	304	1,208	5.5	74.1	74.1	74.2	0.1
E	1,050	155	1,000	6.7	74.7	74.7	74.8	0.1
F	1,220	98	512	13.1	74.7	74.7	74.7	0.0
G	1,490	270	874	7.7	80.1	80.1	80.3	0.2
H	1,630	263	1,533	4.4	81.6	81.6	81.6	0.0
I	1,770	259	1,674	4.0	81.8	81.8	81.8	0.0
J	1,825	220	1,370	4.9	81.8	81.8	81.8	0.0
K	1,945	195	1,091	6.1	81.9	81.9	82.0	0.1
L	1,995	210	1,092	6.1	82.0	82.0	82.2	0.2
M	2,165	370	1,654	4.1	82.7	82.7	83.0	0.3
N	2,305	121	595	11.3	84.7	84.7	85.1	0.4
O	2,333	126	702	9.5	86.8	86.8	87.3	0.5
P	2,360	175	1,111	6.0	88.1	88.1	88.6	0.5
Q	2,615	147	887	7.6	88.3	88.3	88.9	0.6
R	2,765	106	644	10.4	88.3	88.3	88.9	0.6
S	2,792	137	965	6.9	89.3	89.3	89.9	0.6
T	3,059	112	850	7.9	89.6	89.6	90.2	0.6
U	3,246	140	566	11.8	92.2	92.2	92.2	0.0
V	3,290	150	917	7.3	93.0	93.0	93.8	0.8
W	3,475	95	503	13.3	97.3	97.3	97.3	0.0
X	3,718	124	963	7.0	99.0	99.0	100.0	1.0
Y	3,961	112	814	8.2	99.9	99.9	100.7	0.8
Z	4,192	118	943	5.9	101.4	101.4	101.8	0.4

¹ Feet Above Downstream Face of Atchison, Topeka & Santa Fe Railway Bridge

TABLE 13

FEDERAL EMERGENCY MANAGEMENT AGENCY
SAN DIEGO COUNTY, CA
 AND INCORPORATED AREAS

FLOODWAY DATA

CARROLL CANYON CREEK

FLOODING SOURCE		FLOODWAY			1-PERCENT-ANNUAL-CHANCE FLOOD WATER-SURFACE ELEVATION (FEET NAVD)			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
Carroll Canyon Creek (cont d)								
AA	4,423	74	422	13.3	102.0	102.0	103.0	1.0
AB	4,907	235	919	6.1	107.8	107.8	108.8	1.0
AC	5,611	125	518	10.8	113.0	113.0	113.0	0.0
AD	6,282	266	795	7.0	119.4	119.4	120.0	0.6
AE	6,841	235	607	9.2	126.3	126.3	126.3	0.0
AF	7,721	251	850	6.6	133.2	133.2	134.1	0.9
AG	8,575	119	485	11.5	142.4	142.4	142.4	0.0
AH	8,865	107	599	9.4	144.8	144.8	145.1	0.3
AI	8,894	139	578	9.7	145.6	145.6	146.1	0.5
AJ	9,325	213	624	8.6	148.3	148.3	149.3	1.0
AK	9,560	239	629	8.9	151.7	151.7	152.0	0.3
AL	9,635	239	652	8.6	152.3	152.3	152.3	0.0
AM	10,305	101	451	10.0	158.9	158.9	159.9	1.0
AN	10,758	120	465	9.7	165.3	165.3	165.9	0.6
AO	11,338	72	356	12.6	171.3	171.3	171.3	0.0
AP	11,697	189	690	6.5	175.0	175.0	175.8	0.8
AQ	12,357	104	423	10.6	179.8	179.2	180.8	1.0
AR	12,753	160	684	6.6	183.8	183.8	184.8	1.0
AS	13,426	104	409	11.0	189.2	189.2	189.5	0.3
AT	14,119	265	792	5.6	194.7	194.7	195.7	1.0
AU	14,399	200	533	9.5	199.9	199.9	199.9	0.0
AV	15,071	33	232	15.0	205.4	205.4	206.4	1.0
AW	15,650	100	578	6.9	211.4	211.4	212.3	0.9
AX	15,700	61	289	12.6	211.5	211.5	212.5	1.0
AY	16,080	52	283	14.0	215.3	215.3	215.5	0.2
AZ	16,738	68	307	13.2	222.2	222.2	222.8	0.6

¹ Feet Above Downstream Face of Atchison, Topeka & Santa Fe Railway Bridge

TABLE 13

FEDERAL EMERGENCY MANAGEMENT AGENCY
SAN DIEGO COUNTY, CA
 AND INCORPORATED AREAS

FLOODWAY DATA

CARROLL CANYON CREEK

FLOODING SOURCE		FLOODWAY			1-PERCENT-ANNUAL-CHANCE FLOOD WATER-SURFACE ELEVATION (FEET NAVD)			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
Carroll Canyon Creek (cont 'd)								
BA	17,153	46	269	15.4	228.1	228.1	228.1	0.0
BB	17,403	39	245	14.3	230.9	230.9	231.2	0.3
BC	17,581	38	245	14.6	233.1	233.1	233.4	0.3
BD	17,820	46	300	12.4	235.5	235.5	236.2	0.7
BE	17,970	29	222	15.7	238.2	238.2	238.8	0.6
BF	18,062	100	891	6.2	251.1	251.1	251.1	0.0
BG	18,493	72	558	6.3	251.4	251.4	251.4	0.0
BH	18,885	160	759	4.8	252.4	252.4	252.5	0.1
BI	19,244	162	552	6.3	252.6	252.6	253.2	0.6
BJ	19,849	144	564	6.2	254.3	254.3	254.5	0.2
BK	20,029	229	1,064	3.3	255.2	255.2	255.3	0.1
BL	20,275	142	510	6.9	255.4	255.4	255.5	0.1
BM	20,440	248	453	7.7	258.7	258.7	258.7	0.0
BN	20,986	169	831	4.2	261.1	261.1	261.5	0.4
BO	21,389	125	359	9.7	263.2	263.2	263.6	0.4
BP	22,144	121	512	6.8	273.7	273.7	274.7	1.0
BQ	22,734	89	348	10.1	280.4	280.4	281.2	0.8
BR	23,295	121	443	7.9	289.0	289.0	290.0	1.0
BS	24,012	62	305	11.5	306.3	306.3	306.3	0.0
BT	24,552	100	444	7.9	313.5	313.5	314.2	0.7
BU	25,002	69	490	7.1	323.3	323.3	324.3	1.0
BV	25,707	72	511	6.9	327.9	327.9	328.9	1.0
BW	26,142	42	272	12.9	332.9	332.9	332.9	0.0
BX	26,308	38	324	10.8	335.9	335.9	336.1	0.2
BY	26,628	35	521	6.8	345.5	345.5	345.5	0.0
BZ	26,936	236	1,123	3.1	345.7	345.7	346.4	0.7

¹ Feet Above Downstream Face of Atchison, Topeka & Santa Fe Railway Bridge

TABLE 13

FEDERAL EMERGENCY MANAGEMENT AGENCY
SAN DIEGO COUNTY, CA
AND INCORPORATED AREAS

FLOODWAY DATA

CARROLL CANYON CREEK

FLOODING SOURCE		FLOODWAY			1-PERCENT-ANNUAL-CHANCE FLOOD WATER-SURFACE ELEVATION (FEET NAVD)			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
Carroll Canyon Creek (cont' d)								
CA	27,516	125	458	7.6	345.8	345.8	346.5	0.7
CB	28,084	210	490	7.2	349.6	349.6	349.7	0.1
CC	28,616	49	265	13.2	358.1	358.1	358.1	0.0
CD	29,080	137	483	7.2	362.7	362.7	362.7	0.0
CE	29,623	81	310	11.3	372.3	372.3	372.3	0.0
CF	29,978	328	621	5.6	381.6	381.6	382.6	1.0
CG	30,546	324	579	6.0	386.1	386.1	386.1	0.0
CH	30,872	335	651	5.4	390.4	390.4	390.4	0.0
CI	31,220	559	1,130	3.1	395.4	395.4	395.4	0.0
CJ	31,490	218	723	1.5	395.8	395.8	395.8	0.0
CK	31,690	29	103	10.7	396.4	396.4	396.4	0.0
CL	32,010	245	159	6.9	402.3	402.3	402.3	0.0
CM	32,080	28	101	10.9	402.7	402.7	402.7	0.0
CN	32,260	43	117	9.4	409.4	409.4	409.4	0.0
CO	32,637	96	181	6.1	416.1	416.1	416.4	0.3
CP	32,924	16	96	11.4	421.5	421.5	421.5	0.0
CQ	33,509	36	137	8.1	426.3	426.3	426.4	0.1
CR	34,099	32	106	10.4	434.4	434.4	434.4	0.0
CS	34,709	17	86	12.9	443.9	443.9	444.9	1.0
CT	35,025	36	120	9.2	445.4	445.4	445.7	0.3
CU	35,698	56	479	2.4	463.7	463.7	463.7	0.0
CV	35,917	108	901	1.7	463.8	463.8	463.8	0.0
CW	36,193	91	353	3.8	463.8	463.8	463.8	0.0
CX	36,780	165	208	6.4	468.8	468.8	469.8	1.0
CY	37,430	84	308	4.4	478.8	478.8	479.8	1.0
CZ	37,862	157	358	3.7	484.0	484.0	484.9	0.9

¹Feet Above Downstream Face of Atchison, Topeka & Santa Fe Railway Bridge

TABLE 13

FEDERAL EMERGENCY MANAGEMENT AGENCY
SAN DIEGO COUNTY, CA
 AND INCORPORATED AREAS

FLOODWAY DATA

CARROLL CANYON CREEK

FLOODING SOURCE		FLOODWAY			1-PERCENT-ANNUAL-CHANCE FLOOD WATER-SURFACE ELEVATION (FEET NAVD)			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
Carroll Canyon Creek (cont' d)								
DA	39,028	79	163	8.2	499.1	499.1	499.8	0.7
DB	39,821	93	197	6.8	509.8	509.8	510.0	0.2
DC	39,978	172	321	4.2	511.2	511.2	511.2	0.0
DD	40,693	89	169	7.9	522.2	522.2	523.0	0.8
DE	41,200	90	173	7.7	529.7	529.7	530.5	0.8
DF	41,525	40	131	10.2	534.3	534.3	534.9	0.6
DG	41,593	102	270	5.0	535.9	535.9	536.8	0.9
DH	42,090	79	162	8.3	541.4	541.4	541.5	0.1
DI	42,750	93	184	7.3	550.1	550.1	551.1	1.0
DJ	43,150	89	182	7.4	555.7	555.7	555.9	0.2
DK	43,350	134	195	6.9	561.0	561.0	561.0	0.0
DL	43,980	209	297	4.5	567.5	567.5	567.5	0.0
DM	44,545	115	185	7.2	575.7	575.7	576.2	0.5
DN	45,388	182	235	5.7	588.0	588.0	588.4	0.4
DO	46,220	66	153	8.8	601.3	601.3	601.6	0.3
DP	46,810	60	153	8.8	612.3	612.3	613.2	0.9
DQ	47,315	49	141	9.5	621.8	621.8	622.4	0.6
DR	47,900	77	161	8.3	630.7	630.7	631.1	0.4
DS	48,500	81	165	8.1	642.9	642.9	642.9	0.0
DT	49,052	60	150	8.9	652.8	652.8	653.7	0.9
DU	49,218	37	129	10.4	657.2	657.2	657.9	0.7
DV	49,475	130	288	4.7	660.2	660.2	661.2	1.0
DW	49,700	139	197	6.8	667.5	667.5	667.5	0.0
DX	50,370	67	154	8.7	685.6	685.6	686.6	1.0
DY	50,985	100	176	7.6	701.4	701.4	701.4	0.0
DZ	51,640	51	141	9.5	717.7	717.7	717.7	0.0

¹Feet Above Downstream Face of Atchison, Topeka & Santa Fe Railway Bridge

TABLE 13

FEDERAL EMERGENCY MANAGEMENT AGENCY
SAN DIEGO COUNTY, CA
 AND INCORPORATED AREAS

FLOODWAY DATA

CARROLL CANYON CREEK

FLOODING SOURCE		FLOODWAY			1-PERCENT-ANNUAL-CHANCE FLOOD WATER-SURFACE ELEVATION (FEET NAVD)			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
Carroll Canyon Creek (cont' d)								
EA	52,000	58	148	9.1	726.4	726.4	726.4	0.0
EB	52,350	55	145	9.2	735.5	735.5	735.5	0.0
EC	52,750	58	147	9.1	748.4	748.4	748.4	0.0

¹Feet Above Downstream Face of Atchison, Topeka & Santa Fe Railway Bridge

TABLE 13

FEDERAL EMERGENCY MANAGEMENT AGENCY
SAN DIEGO COUNTY, CA
 AND INCORPORATED AREAS

FLOODWAY DATA

CARROLL CANYON CREEK

FLOODING SOURCE		FLOODWAY			1-PERCENT-ANNUAL-CHANCE FLOOD WATER-SURFACE ELEVATION (FEET NAVD)			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
Coleman Creek								
A	5,800	79	614	14.2	3,570.9	3,570.9	3,571.9	1.0
B	6,500	124	743	11.8	3,579.8	3,579.8	3,579.8	0.0
C	6,970	105	604	14.5	3,584.0	3,584.0	3,584.0	0.0
D	7,570	124	711	12.3	3,595.8	3,595.8	3,595.8	0.0
E	7,620	165	848	10.3	3,597.0	3,597.0	3,597.0	0.0
F	7,680	190	1,793	4.9	3,603.8	3,603.8	3,603.8	0.0
G	8,000	217	837	10.5	3,606.4	3,606.4	3,606.6	0.2
H	8,550	125	581	5.8	3,609.8	3,609.8	3,610.1	0.3
I	9,050	147	371	9.0	3,612.6	3,612.6	3,612.6	0.0
J	9,550	84	320	10.4	3,617.3	3,617.3	3,617.6	0.3
K	10,080	69	316	10.6	3,637.3	3,637.3	3,637.3	0.0
L	10,140	80	764	4.4	3,641.1	3,641.1	3,641.1	0.0
M	10,555	66	275	12.1	3,644.0	3,644.0	3,644.0	0.0
N	11,015	100	346	9.7	3,662.2	3,662.2	3,662.2	0.0
O	11,570	106	382	8.8	3,667.6	3,667.6	3,667.6	0.0
P	12,080	62	274	12.2	3,675.6	3,675.6	3,675.6	0.0
Q	12,595	89	303	11.0	3,710.7	3,710.7	3,710.7	0.0
R	13,095	83	313	10.7	3,755.0	3,755.0	3,755.0	0.0
S	13,545	116	351	9.5	3,781.4	3,781.4	3,781.4	0.0
T	14,025	90	322	10.4	3,790.8	3,790.8	3,790.8	0.0
U	14,505	74	290	11.5	3,834.9	3,834.9	3,834.9	0.0
V	15,010	78	296	11.3	3,872.1	3,872.1	3,872.1	0.0
W	15,560	58	260	12.9	3,892.3	3,892.3	3,892.3	0.0
X	16,160	95	316	10.6	3,908.1	3,908.1	3,908.1	0.0
Y	16,660	90	324	10.3	3,921.1	3,921.1	3,921.1	0.0
Z	17,150	109	345	9.7	3,929.2	3,929.2	3,929.6	0.4

¹ Feet Above Confluence with San Diego River

TABLE 13

FEDERAL EMERGENCY MANAGEMENT AGENCY
SAN DIEGO COUNTY, CA
 AND INCORPORATED AREAS

FLOODWAY DATA

COLEMAN CREEK

FLOODING SOURCE		FLOODWAY			1-PERCENT-ANNUAL-CHANCE FLOOD WATER-SURFACE ELEVATION (FEET NAVD)			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
Coleman Creek (cont'd)								
AA	17,550	58	170	10.0	3,937.2	3,937.2	3,937.3	0.1
AB	18,010	69	180	9.5	3,951.8	3,951.8	3,951.8	0.0
AC	18,460	83	186	9.2	3,958.1	3,958.1	3,958.1	0.0
AD	18,970	79	164	10.4	3,965.1	3,965.1	3,965.1	0.0
AE	19,470	86	193	8.8	3,976.3	3,976.3	3,976.3	0.0
AF	19,870	91	206	8.3	3,981.0	3,981.0	3,981.0	0.0
AG	20,080	80	554	3.1	3,990.0	3,990.0	3,990.0	0.0
AH	20,630	133	232	7.4	3,997.4	3,997.4	3,997.4	0.0
AI	21,145	116	222	7.7	4,014.4	4,014.4	4,014.4	0.0
AJ	21,605	84	172	9.9	4,023.7	4,023.7	4,023.7	0.0
AK	22,105	90	194	8.8	4,035.7	4,035.7	4,035.7	0.0
AL	22,555	62	174	9.8	4,056.6	4,056.6	4,056.7	0.1
AM	23,055	51	158	10.8	4,124.8	4,124.8	4,124.8	0.0
AN	23,485	72	193	8.8	4,152.6	4,152.6	4,152.6	0.0
AO	23,643	101	1,219	1.4	4,166.8	4,166.8	4,166.8	0.0

¹ Feet Above Confluence with San Diego River

TABLE 13

FEDERAL EMERGENCY MANAGEMENT AGENCY
SAN DIEGO COUNTY, CA
 AND INCORPORATED AREAS

FLOODWAY DATA

COLEMAN CREEK

FLOODING SOURCE		FLOODWAY			1-PERCENT-ANNUAL-CHANCE FLOOD WATER-SURFACE ELEVATION (FEET NAVD)			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
County Ditch Creek								
A	660	170	800	2.3	416.9	416.9	417.9	1.0
B	1,415	40	230	7.8	417.0	417.0	418.0	1.0
C	3,070	40	200	8.0	421.2	421.2	422.2	1.0
D	4,610	30	150	9.7	429.2	429.2	430.0	0.8
E	6,415	10	50	16.0	431.9	431.9	432.9	1.0
F	7,850	10	60	13.3	447.1	447.1	447.8	0.7

¹ Feet above confluence with Forester Creek

TABLE 13

FEDERAL EMERGENCY MANAGEMENT AGENCY
SAN DIEGO COUNTY, CA
 AND INCORPORATED AREAS

FLOODWAY DATA

COUNTY DITCH CREEK

FLOODING SOURCE		FLOODWAY			1-PERCENT-ANNUAL-CHANCE FLOOD WATER-SURFACE ELEVATION (FEET NAVD)			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
Deer Springs Creek								
A	1,810	207	284	5.5	735.6	735.6	736.3	0.7
B	2,290	153	252	6.1	742.1	742.1	742.2	0.1
C	2,477	171	236	6.6	745.7	745.7	745.8	0.1
D	2,642	175	315	4.9	747.3	747.3	747.6	0.3
E	3,047	121	341	4.5	750.2	750.2	750.2	0.0
F	3,332	72	194	8.0	751.5	751.5	751.6	0.1
G	3,722	186	232	6.7	760.6	760.6	760.7	0.1
H	4,057	72	271	11.2	764.7	764.7	765.0	0.3
I	4,404	65	211	9.4	766.9	766.9	767.3	0.4
J	4,608	65	217	10.7	771.8	771.8	772.2	0.4
K	5,094	71	565	2.9	783.8	783.8	784.2	0.4

¹Feet Above Confluence with Twin Oaks Valley Creek

TABLE 13

FEDERAL EMERGENCY MANAGEMENT AGENCY
SAN DIEGO COUNTY, CA
 AND INCORPORATED AREAS

FLOODWAY DATA

DEER SPRINGS CREEK

FLOODING SOURCE		FLOODWAY			1-PERCENT-ANNUAL-CHANCE FLOOD WATER-SURFACE ELEVATION (FEET NAVD)			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
Descanso Creek								
A	450	65	134	8.2	3,398.5	3393.2 ²	3393.2 ²	0.0
B	1,045	80	144	7.6	3,401.3	3,401.3	3,401.3	0.0
C	1,245	74	143	7.7	3,407.2	3,407.2	3,407.2	0.0
D	1,565	41	118	9.3	3,411.8	3,411.8	3,411.8	0.0
E	1,605	34	117	9.4	3,412.3	3,412.3	3,412.3	0.0
F	1,775	80	136	8.1	3,415.2	3,415.2	3,415.2	0.0
G	2,145	35	109	10.1	3,424.4	3,424.4	3,424.4	0.0
H	2,565	39	113	9.7	3,450.6	3,450.6	3,450.6	0.0
I	2,785	29	102	10.8	3,459.9	3,459.9	3,459.9	0.0
J	3,130	37	111	9.9	3,481.3	3,481.3	3,481.3	0.0
K	3,200	18	87	12.7	3,488.2	3,488.2	3,488.2	0.0
L	3,220	40	132	8.4	3,489.8	3,489.8	3,489.8	0.0
M	3,400	42	140	7.8	3,491.6	3,491.6	3,491.6	0.0
N	3,585	33	106	10.3	3,498.2	3,498.2	3,498.2	0.0
O	3,745	37	110	10.0	3,500.5	3,500.5	3,500.5	0.0
P	4,175	76	235	4.7	3,504.1	3,504.1	3,504.1	0.0
Q	4,475	48	230	12.6	3,510.2	3,510.2	3,510.2	0.0
R	4,690	148	566	5.1	3,512.8	3,512.8	3,512.8	0.0
S	5,080	167	470	9.8	3,518.6	3,518.6	3,518.6	0.0
T	5,450	329	869	6.9	3,524.1	3,524.1	3,524.1	0.0
U	5,950	558	1,058	5.7	3,529.5	3,529.5	3,530.5	1.0
V	6,140	500	916	6.5	3,531.3	3,531.3	3,531.7	0.4
W	6,690	220	676	8.9	3,537.7	3,537.7	3,537.7	0.0
X	6,755	230	716	8.4	3,539.4	3,539.4	3,539.4	0.0
Y	7,290	141	922	6.5	3,541.3	3,541.3	3,541.4	0.1
Z	7,980	150	726	8.3	3,543.0	3,543.0	3,543.2	0.2

¹ Feet Above Confluence with Sweetwater River (Descanso Area)

² Elevation Computed without Consideration of Backwater From Sweetwater River (Descanso Area)

TABLE 13

FEDERAL EMERGENCY MANAGEMENT AGENCY
SAN DIEGO COUNTY, CA
 AND INCORPORATED AREAS

FLOODWAY DATA

DESCANSO CREEK

FLOODING SOURCE		FLOODWAY			1-PERCENT-ANNUAL-CHANCE FLOOD WATER-SURFACE ELEVATION (FEET NAVD)			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
Descanso Creek (cont'd)								
AA	8,505	263	891	6.7	3,548.1	3,548.1	3,549.0	0.9
AB	8,985	48	375	16.0	3,554.3	3,554.3	3,554.3	0.0
AC	9,485	102	484	12.4	3,569.0	3,569.0	3,569.0	0.0
AD	9,865	80	541	11.1	3,573.4	3,573.4	3,573.4	0.0
AE	10,175	60	404	14.8	3,581.2	3,581.2	3,581.2	0.0
AF	10,685	107	590	10.2	3,587.3	3,587.3	3,588.3	1.0
AG	11,120	110	508	11.8	3,596.1	3,596.1	3,596.8	0.7
AH	11,480	177	589	10.2	3,605.5	3,605.5	3,605.6	0.1
AI	11,830	114	710	8.4	3,609.7	3,609.7	3,610.1	0.4
AJ	12,120	99	478	12.6	3,619.2	3,619.2	3,619.2	0.0
AK	12,460	126	529	11.3	3,626.7	3,626.7	3,627.0	0.3
AL	12,780	123	724	8.3	3,631.5	3,631.5	3,631.9	0.4
AM	13,170	100	491	12.2	3,644.5	3,644.5	3,644.5	0.0

¹ Feet Above Confluence with Sweetwater River (Descanso Area)

TABLE 13

FEDERAL EMERGENCY MANAGEMENT AGENCY
SAN DIEGO COUNTY, CA
 AND INCORPORATED AREAS

FLOODWAY DATA

DESCANSO CREEK

FLOODING SOURCE		FLOODWAY			1-PERCENT-ANNUAL-CHANCE FLOOD WATER-SURFACE ELEVATION (FEET NAVD)			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
Encanto Branch								
A	400	72	543	6.5	114.2	114.2	114.8	0.6
B	820	105	918	3.8	115.5	115.5	116.3	0.8
C	1,040	106	776	4.6	115.6	115.6	116.4	0.8
D	1,430	66	313	11.2	122.1	122.1	122.2	0.1
E	1,960	67	380	9.2	127.5	127.5	128.0	0.5
F	2,290	68	512	6.8	131.2	131.2	131.9	0.7
G	2,770	62	368	9.5	132.9	132.9	133.3	0.4
H	3,300	60	331	10.6	137.6	137.6	137.6	0.0
I	4,160	77	280	14.1	144.5	144.5	144.5	0.0

¹ Feet Above Confluence with South Las Chollas Creek

TABLE 13

FEDERAL EMERGENCY MANAGEMENT AGENCY
SAN DIEGO COUNTY, CA
 AND INCORPORATED AREAS

FLOODWAY DATA

ENCANTO BRANCH

FLOODING SOURCE		FLOODWAY			1-PERCENT-ANNUAL-CHANCE FLOOD WATER-SURFACE ELEVATION (FEET NAVD)			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
Escondido Creek (Above Lake Wohlford)								
A	11,200	300	1,003	2.7	1,494.6	1,494.6	1,495.6	1.0
B	11,650	90	641	3.1	1,494.9	1,494.9	1,495.9	1.0
C	11,790	60	337	5.9	1,495.0	1,495.0	1,495.9	0.9
D	11,935	60	337	5.9	1,495.0	1,495.0	1,495.9	0.9
E	12,510	24	142	13.9	1,504.1	1,504.1	1,504.1	0.0
F	12,985	60	203	9.7	1,514.5	1,514.5	1,514.5	0.0
G	13,485	74	237	8.3	1,520.5	1,520.5	1,520.9	0.4
H	13,990	110	315	8.6	1,527.1	1,527.1	1,527.3	0.2
I	14,470	70	260	10.4	1,533.6	1,533.6	1,534.0	0.4
J	14,845	47	215	12.6	1,544.1	1,544.1	1,544.1	0.0
K	15,285	55	243	11.1	1,566.3	1,566.3	1,566.4	0.1
L	15,670	110	656	4.1	1,568.2	1,568.2	1,568.9	0.7
M	16,180	130	368	7.3	1,570.5	1,570.5	1,571.1	0.6
N	16,615	80	265	10.2	1,578.3	1,578.3	1,578.8	0.5
O	17,120	56	260	10.4	1,582.9	1,582.9	1,583.1	0.2

¹Feet Above Wohlford Dam

TABLE 13

FEDERAL EMERGENCY MANAGEMENT AGENCY
SAN DIEGO COUNTY, CA
 AND INCORPORATED AREAS

FLOODWAY DATA

ESCONDIDO CREEK (ABOVE LAKE WOHLFORD)

FLOODING SOURCE		FLOODWAY			1-PERCENT-ANNUAL-CHANCE FLOOD WATER-SURFACE ELEVATION (FEET NAVD)			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
Escondido Creek (At Encinitas)								
A	11,025	668	3,065	6.9	15.4	15.4	15.4	0.0
B	12,569	1,290	8,331	2.5	17.3	17.3	17.3	0.0
C	14,054	1,230	6,299	3.3	17.8	17.8	17.8	0.0
D	14,887	1,202	4,902	4.3	18.3	18.3	18.4	0.1
E	16,040	1,265	2,664	7.9	20.8	20.8	20.9	0.1
F	17,729	312	1,750	12.0	30.7	30.7	30.7	0.0
G	18,531	1,211	10,475	2.0	34.1	34.1	34.3	0.2
H	19,456	1,125	8,004	2.6	34.2	34.2	34.4	0.2
I	20,627	400	2,925	7.2	35.4	35.4	35.4	0.0
J	20,672	400	2,942	7.1	35.7	35.7	35.8	0.1
K	21,927	795	4,633	4.5	39.4	39.4	39.6	0.2
L	23,639	548	3,152	6.7	42.6	42.6	42.9	0.3
M	25,313	580	3,569	5.9	47.5	47.5	47.7	0.2
N	25,771	550	2,393	8.8	48.0	48.0	48.3	0.3
O	26,606	977	2,069	10.2	53.7	53.7	53.7	0.0
P	27,378	1,005	5,392	3.9	57.9	57.9	58.0	0.1
Q	28,116	1,163	4,861	4.3	58.7	58.7	58.8	0.1
R	28,780	858	3,536	5.9	59.9	59.9	60.0	0.1
S	29,578	795	3,347	6.3	62.7	62.7	62.8	0.1
T	30,905	254	1,835	11.4	67.5	67.5	67.5	0.0

¹Feet Above Pacific Ocean

TABLE 13

FEDERAL EMERGENCY MANAGEMENT AGENCY
SAN DIEGO COUNTY, CA
 AND INCORPORATED AREAS

FLOODWAY DATA

ESCONDIDO CREEK (AT ENCINITAS)

FLOODING SOURCE		FLOODWAY			1-PERCENT-ANNUAL-CHANCE FLOOD WATER-SURFACE ELEVATION (FEET NAVD)			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
Escondido Creek (At Escondido)								
U	55,660	180	1,796	10.6	369.6	369.6	369.6	0.0
V	59,034	277	1,704	11.5	401.5	401.5	401.6	0.1
W	61,330	152	1,324	14.4	434.5	434.5	434.5	0.0
X	63,130	198	1,420	13.4	466.4	466.4	466.4	0.0
Y	64,805	234	1,527	12.4	506.2	506.2	506.2	0.0
Z	67,980	194	1,685	11.3	547.0	547.0	547.0	0.0
AA	70,880	309	2,219	8.6	560.1	560.1	560.3	0.2
AB	72,700	410	2,886	6.6	569.1	569.1	569.2	0.1
AC	75,675	126	1,198	15.9	594.6	594.6	594.6	0.0
AD	79,280	236	3,511	5.1	614.2	614.2	614.5	0.3
AE	80,923	356	4,578	3.9	616.6	616.6	616.8	0.2

¹ Feet Above Pacific Ocean

TABLE 13

FEDERAL EMERGENCY MANAGEMENT AGENCY
SAN DIEGO COUNTY, CA
 AND INCORPORATED AREAS

FLOODWAY DATA

ESCONDIDO CREEK (AT ESCONDIDO)

FLOODING SOURCE		FLOODWAY			1-PERCENT-ANNUAL-CHANCE FLOOD WATER-SURFACE ELEVATION (FEET NAVD)			
CROSS SECTION	DISTANCE	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
Eucalyptus Hills Creek (East Branch)								
A	-- ²	-- ²	-- ²	-- ²	-- ²	-- ²	-- ²	-- ²
B	-- ²	-- ²	-- ²	-- ²	-- ²	-- ²	-- ²	-- ²
C	-- ²	-- ²	-- ²	-- ²	-- ²	-- ²	-- ²	-- ²
D-I ³								
J	3425 ¹	205	455	1.9	390.1	390.1	391.1	1.0
K	3795 ¹	144	202	4.2	393.0	393.0	394.0	1.0
L	4095 ¹	52	113	7.6	397.4	397.4	397.9	0.5
M	4480 ¹	27	85	10.2	403.4	403.4	404.4	1.0
N	4810 ¹	24	106	8.1	408.3	408.3	409.2	0.9
O	5123 ¹	32	90	9.6	415.0	415.0	415.4	0.4
P	5446 ¹	40	108	8.0	420.3	420.3	421.2	0.9
Q	5703 ¹	19	16	11.3	424.9	424.9	425.2	0.3

¹ Feet Above Confluence with San Diego River

² 1-Percent Annual Chance Flood Contained in Channel

³ Floodway Not Applicable

TABLE 13

FEDERAL EMERGENCY MANAGEMENT AGENCY
SAN DIEGO COUNTY, CA
 AND INCORPORATED AREAS

FLOODWAY DATA

EUCALYPTUS HILLS CREEK (EAST BRANCH)

FLOODING SOURCE		FLOODWAY			1-PERCENT-ANNUAL-CHANCE FLOOD WATER-SURFACE ELEVATION (FEET NAVD)			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
Eucalyptus Hills Creek (West Branch)								
A	850	83	248	4.0	375.0	358.2 ²	359.2 ²	1.0
B	1,384	162	195	5.0	375.0	366.6 ²	366.8 ²	0.2
C	1,764	50	114	8.6	375.0	372.7 ²	372.7 ²	0.0
D-F ³								
G	3,244	37	146	6.6	388.6	388.6	388.6	0.0
H	3,659	32	112	8.7	391.2	391.2	391.2	0.0
I	3,791	35	183	5.3	393.6	393.6	393.6	0.0
J	4,082	32	112	8.7	399.4	399.4	399.4	0.0
K	4,317	32	118	8.2	401.6	401.6	401.6	0.0
L	4,664	122	557	1.7	406.2	406.2	406.2	0.0
M	4,953	71	141	6.9	413.4	413.4	414.3	0.9
N	5,327	52	114	8.5	419.0	419.0	419.3	0.3
O	5,556	135	211	4.6	422.2	422.2	423.2	1.0
P	5,652	140	304	3.2	424.4	424.4	425.3	0.9
Q	5,831	92	167	5.8	428.1	428.1	428.6	0.5
R	5,944	82	160	6.0	429.9	429.9	430.5	0.6
S	6,187	69	134	7.3	435.3	435.3	436.1	0.8
T	6,487	71	189	5.1	441.7	441.7	442.0	0.3
U	6,587	89	270	3.6	450.1	450.1	450.7	0.6
V	6,927	32	118	8.2	452.8	452.8	453.7	0.9
W	6,987	50	113	8.6	457.5	457.5	457.6	0.1
X	7,221	65	182	5.3	467.1	467.1	467.4	0.3
Y	7,288	75	214	4.5	468.5	468.5	469.2	0.7
Z	7,652	38	133	7.3	480.4	480.4	480.4	0.0
AA	8,082	41	131	7.4	498.3	498.3	498.8	0.5
AB	8,552	40	130	7.5	521.1	521.1	521.1	0.0

¹ Feet Above Confluence with San Diego River

³ Floodway Not Applicable

² Elevation Computed without Consideration of the Backwater Effect of the San Diego River

TABLE 13

FEDERAL EMERGENCY MANAGEMENT AGENCY
SAN DIEGO COUNTY, CA
 AND INCORPORATED AREAS

FLOODWAY DATA

EUCALYPTUS HILLS CREEK (WEST BRANCH)

FLOODING SOURCE		FLOODWAY			1-PERCENT-ANNUAL-CHANCE FLOOD WATER-SURFACE ELEVATION (FEET NAVD)			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
Florida Drive Branch								
C	1,720	52	246	5.7	110.1	110.1	111.1	1.0
D	2,280	83	462	2.9	122.9	122.9	123.6	0.7
E	2,940	36	134	10.5	129.8	129.8	130.6	0.8

¹ Feet Above Confluence with Switzer Creek

TABLE 13

FEDERAL EMERGENCY MANAGEMENT AGENCY
SAN DIEGO COUNTY, CA
 AND INCORPORATED AREAS

FLOODWAY DATA

FLORIDA DRIVE BRANCH

FLOODING SOURCE		FLOODWAY			1-PERCENT-ANNUAL-CHANCE FLOOD WATER-SURFACE ELEVATION (FEET NAVD)			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
Forester Creek								
A	-- ²	-- ²	-- ²	-- ²	-- ²	-- ²	-- ²	-- ²
B	-- ²	-- ²	-- ²	-- ²	-- ²	-- ²	-- ²	-- ²
C	-- ²	-- ²	-- ²	-- ²	-- ²	-- ²	-- ²	-- ²
D	-- ²	-- ²	-- ²	-- ²	-- ²	-- ²	-- ²	-- ²
E	-- ²	-- ²	-- ²	-- ²	-- ²	-- ²	-- ²	-- ²
F	-- ²	-- ²	-- ²	-- ²	-- ²	-- ²	-- ²	-- ²
G	-- ²	-- ²	-- ²	-- ²	-- ²	-- ²	-- ²	-- ²
H	-- ²	-- ²	-- ²	-- ²	-- ²	-- ²	-- ²	-- ²
I	-- ²	-- ²	-- ²	-- ²	-- ²	-- ²	-- ²	-- ²
J	-- ²	-- ²	-- ²	-- ²	-- ²	-- ²	-- ²	-- ²
K	22,798	30	140	20.9	425.6	425.6	425.9	0.3
L	24,959	30	150	20.1	439.4	439.4	440.4	1.0
M	26,967	30	140	20.9	454.1	454.1	455.1	1.0
N	29,708	30	130	21.3	476.3	476.3	477.0	0.7
O	31,932	20	120	11.3	499.3	499.3	500.3	1.0
P	34,130	20	30	36.1	525.3	525.3	525.3	0.0
Q	35,250	21	71	13.9	543.4	543.4	543.4	0.0
R	35,705	19	64	15.5	550.5	550.5	550.5	0.0
S	36,177	91	154	6.8	561.6	561.6	561.6	0.0
T	36,572	59	191	5.4	567.3	567.3	567.4	0.1
U	37,112	61	150	6.9	575.6	575.6	575.6	0.0
V	37,567	79	187	5.6	583.4	583.4	583.6	0.2
W	38,047	80	145	7.2	591.2	591.2	591.4	0.2
X	38,502	48	118	7.8	598.4	598.4	598.9	0.5
Y	38,887	71	168	5.5	609.0	609.0	609.4	0.4
Z	39,272	69	124	7.4	642.2	642.2	642.2	0.0

¹ Feet Above Confluence with San Diego River

² 1-Percent Annual Chance Flood Contained in Channel

TABLE 13

FEDERAL EMERGENCY MANAGEMENT AGENCY
SAN DIEGO COUNTY, CA
 AND INCORPORATED AREAS

FLOODWAY DATA

FORESTER CREEK

FLOODING SOURCE		FLOODWAY			1-PERCENT-ANNUAL-CHANCE FLOOD WATER-SURFACE ELEVATION (FEET NAVD)			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
Forester Creek (cont'd)								
AA	39,622	73	157	5.9	653.2	653.2	653.2	0.0
AB	39,750	72	337	2.7	661.2	661.2	661.2	0.0
AC	40,200	42	185	5.6	675.0	675.0	675.3	0.3
AD	40,815	51	95	7.8	686.9	686.9	686.9	0.0
AE	41,285	48	100	7.7	697.0	697.0	697.0	0.0
AF	41,655	25	79	9.4	708.3	708.3	708.5	0.2
AG	41,895	55	141	5.7	723.4	723.4	723.4	0.0
AH	42,080	38	106	7.0	725.5	725.5	725.8	0.3
AI	42,410	31	82	9.0	746.5	746.5	746.5	0.0
AJ	42,760	30	90	8.2	761.7	761.7	761.7	0.0
AK	43,020	33	83	8.9	774.6	774.6	774.6	0.0
AL	43,310	47	89	8.3	791.0	791.0	791.0	0.0
AM	43,665	40	89	8.3	834.4	834.4	834.4	0.0
AN	43,995	46	96	7.7	897.7	897.7	897.7	0.0
AO	44,305	36	87	8.5	913.2	913.2	913.2	0.0
AP	44,645	35	88	8.4	948.5	948.5	948.5	0.0
AQ	45,045	59	103	7.2	974.7	974.7	974.7	0.0
AR	45,435	35	85	8.7	1,007.2	1,007.2	1,007.2	0.0
AS	45,835	31	82	9.1	1,038.6	1,038.6	1,038.7	0.1
AT	46,285	29	78	9.5	1,078.7	1,078.7	1,078.7	0.0
AU	46,705	44	88	8.4	1,105.0	1,105.0	1,105.1	0.1
AV	47,075	41	91	8.1	1,129.3	1,129.3	1,129.9	0.6
AW	47,435	41	102	7.2	1,139.8	1,139.8	1,139.9	0.1
AX	47,710	38	85	8.7	1,153.3	1,153.3	1,153.3	0.0
AY	48,195	41	90	8.2	1,170.8	1,170.8	1,170.8	0.0
AZ	48,490	51	102	7.3	1,180.2	1,180.2	1,180.2	0.0

¹Feet Above Confluence with San Diego River

TABLE 13

FEDERAL EMERGENCY MANAGEMENT AGENCY
SAN DIEGO COUNTY, CA
 AND INCORPORATED AREAS

FLOODWAY DATA

FORESTER CREEK

FLOODING SOURCE		FLOODWAY			1-PERCENT-ANNUAL-CHANCE FLOOD WATER-SURFACE ELEVATION (FEET NAVD)			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
Forester Creek (cont'd)								
BA	48,875	64	107	6.9	1,194.3	1,194.3	1,194.3	0.0
BB	49,320	50	94	7.9	1,210.4	1,210.4	1,210.4	0.0
BC	49,715	76	171	4.3	1,219.1	1,219.1	1,219.1	0.0
BD	50,180	32	82	9.1	1,231.7	1,231.7	1,231.8	0.1
BE	50,480	60	120	6.2	1,240.5	1,240.5	1,240.5	0.0
BF	50,895	26	75	9.8	1,259.6	1,259.6	1,259.6	0.0
BG	51,190	50	99	7.5	1,282.3	1,282.3	1,282.3	0.0

¹Feet Above Confluence with San Diego River

TABLE 13

FEDERAL EMERGENCY MANAGEMENT AGENCY
SAN DIEGO COUNTY, CA
 AND INCORPORATED AREAS

FLOODWAY DATA

FORESTER CREEK

FLOODING SOURCE		FLOODWAY			1-PERCENT-ANNUAL-CHANCE FLOOD WATER-SURFACE ELEVATION (FEET NAVD)			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
Garrison Creek								
A	660	21	186	6.1	70.4	70.4	71.2	0.8
B	740	66	290	3.9	71.0	71.0	71.6	0.6
C	919	103	379	3.0	71.7	71.7	72.5	0.8
D	1,313	27	143	7.9	75.0	75.0	75.0	0.0
E	1,638	28	154	7.3	79.3	79.3	79.3	0.0
F	1,991	108	184	6.1	81.2	81.2	81.2	0.0
G	2,113	89	477	2.4	82.4	82.4	82.4	0.0
H	2,780	38	348	3.3	92.1	92.1	92.1	0.0
I	3,311	38	179	6.3	96.1	96.1	96.2	0.1
J	3,631	125	873	1.3	102.3	102.3	102.3	0.0
K	4,393	220	202	5.0	105.0	105.0	105.1	0.1
L	5,138	149	244	4.1	114.2	114.2	114.5	0.3
M	5,617	164	600	1.7	121.7	121.7	122.0	0.3
N	5,822	51	181	5.5	121.8	121.8	122.0	0.2
O	6,166	163	590	1.7	128.4	128.4	128.7	0.3
P	6,421	271	219	4.6	129.5	129.5	129.6	0.1
Q	6,876	99	148	6.8	135.1	135.1	135.2	0.1

¹Feet Above Mouth

TABLE 13

FEDERAL EMERGENCY MANAGEMENT AGENCY
SAN DIEGO COUNTY, CA
 AND INCORPORATED AREAS

FLOODWAY DATA

GARRISON CREEK

FLOODING SOURCE		FLOODWAY			1-PERCENT-ANNUAL-CHANCE FLOOD WATER-SURFACE ELEVATION (FEET NAVD)			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
Gonzales Canyon Creek								
A	204	106	423	3.8	41.1	41.1	41.1	0.0
B	443	34	200	8.0	46.0	46.0	46.0	0.0
C	787	33	192	8.4	48.8	48.8	48.8	0.0
D	1,026	61	275	5.8	51.0	51.0	51.9	0.9
E	1,416	37	155	10.3	54.2	54.2	54.9	0.7
F	1,581	80	315	5.1	57.9	57.9	58.9	1.0
G	1,846	43	173	9.3	60.5	60.5	60.5	0.0
H	2,185	83	187	8.6	65.7	65.7	66.0	0.3

¹ Feet Above Old El Camino Real

TABLE 13

FEDERAL EMERGENCY MANAGEMENT AGENCY
SAN DIEGO COUNTY, CA
 AND INCORPORATED AREAS

FLOODWAY DATA

GONZALES CANYON CREEK

FLOODING SOURCE		FLOODWAY			1-PERCENT-ANNUAL-CHANCE FLOOD WATER-SURFACE ELEVATION (FEET NAVD)			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
Gopher Canyon Creek								
A	1,097	438	1,351	5.7	152.6	152.6	152.7	0.1
B	1,447	502	1,085	7.1	157.5	157.5	157.5	0.0
C	1,922	188	750	10.3	163.5	163.5	163.5	0.0
D	2,452	127	877	8.8	169.2	169.2	169.2	0.0
E	3,052	130	746	10.3	177.4	177.4	178.1	0.7
F	3,552	269	1,053	7.3	183.0	183.0	183.4	0.4
G	3,902	133	630	12.2	187.9	187.9	187.9	0.0
H	4,292	110	608	12.6	193.9	193.9	194.0	0.1
I	4,622	156	680	11.3	198.9	198.9	198.9	0.0
J	4,922	85	537	14.3	204.7	204.7	204.7	0.0
K	5,172	84	540	14.2	209.5	209.5	209.5	0.0
L	5,522	105	1,020	7.5	212.3	212.3	213.1	0.8
M	6,092	75	511	15.1	223.5	223.5	223.5	0.0
N	6,452	84	542	14.2	228.3	228.3	228.3	0.0
O	6,892	97	605	10.9	233.5	233.5	233.7	0.2
P	7,332	122	598	11.0	246.8	246.8	246.8	0.0
Q	7,652	175	1,151	5.7	248.7	248.7	249.7	1.0
R	7,862	140	782	6.5	254.1	254.1	254.1	0.0
S	7,889	142	900	5.6	255.2	255.2	255.2	0.0
T	8,289	58	362	14.0	255.3	255.3	255.3	0.0
U	8,659	85	618	8.2	258.5	258.5	259.1	0.6
V	9,099	82	403	12.6	261.4	261.4	261.4	0.0
W	9,479	148	494	10.3	269.9	269.9	270.0	0.1
X	9,769	147	535	9.5	277.1	277.1	277.2	0.1
Y	10,219	86	486	10.4	282.7	282.7	282.9	0.2
Z	10,669	127	459	11.0	294.5	294.5	294.5	0.0

¹Feet Above Confluence with San Luis Rey River

TABLE 13

FEDERAL EMERGENCY MANAGEMENT AGENCY
SAN DIEGO COUNTY, CA
 AND INCORPORATED AREAS

FLOODWAY DATA

GOPHER CANYON CREEK

FLOODING SOURCE		FLOODWAY			1-PERCENT-ANNUAL-CHANCE FLOOD WATER-SURFACE ELEVATION (FEET NAVD)			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
Gopher Canyon Creek (cont'd)								
AA	10,969	218	620	8.2	301.5	301.5	301.5	0.0
AB	11,144	199	543	4.4	304.3	304.3	304.8	0.5
AC	11,594	269	357	6.7	327.3	327.3	327.4	0.1
AD	11,994	155	969	2.5	328.4	328.4	328.7	0.3
AE	12,544	120	277	8.6	332.2	332.2	332.3	0.1
AF	13,004	142	290	8.2	342.4	342.4	342.4	0.0
AG	13,689	144	339	7.0	359.4	359.4	359.4	0.0
AH	14,339	204	342	7.0	395.1	395.1	395.1	0.0
AI	14,934	102	317	7.5	398.7	398.7	398.8	0.1
AJ	15,264	116	287	8.3	403.0	403.0	403.5	0.5
AK	15,584	119	439	5.4	407.4	407.4	407.9	0.5
AL	16,034	65	223	10.7	415.9	415.9	415.9	0.0
AM	16,464	118	655	3.6	424.3	424.3	424.5	0.2
AN	16,944	134	285	8.4	428.5	428.5	428.5	0.0
AO	17,394	116	310	7.7	438.7	438.7	438.7	0.0
AP	17,844	76	242	9.8	444.8	444.8	444.8	0.0
AQ	18,284	90	232	10.2	453.2	453.2	453.2	0.0
AR	18,434	103	1,119	1.5	455.4	455.4	455.4	0.0
AS	18,478	103	1,121	1.5	455.5	455.5	455.5	0.0
AT	18,998	213	257	6.7	471.1	471.1	471.1	0.0
AU	19,508	93	374	4.6	478.5	478.5	479.4	0.9
AV	19,948	52	172	9.9	485.1	485.1	485.3	0.2
AW	20,208	76	287	6.0	488.3	488.3	489.1	0.8
AX	20,558	34	145	11.8	496.7	496.7	496.7	0.0
AY	20,908	49	172	10.0	505.5	505.5	505.8	0.3
AZ	21,328	113	333	5.1	515.2	515.2	516.1	0.9
BA	21,638	144	197	8.7	523.4	523.4	523.8	0.4

¹ Feet Above Confluence with San Luis Rey River

TABLE 13

FEDERAL EMERGENCY MANAGEMENT AGENCY
SAN DIEGO COUNTY, CA
 AND INCORPORATED AREAS

FLOODWAY DATA

GOPHER CANYON CREEK

FLOODING SOURCE		FLOODWAY			1-PERCENT-ANNUAL-CHANCE FLOOD WATER-SURFACE ELEVATION (FEET NAVD)			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
Green Valley Creek								
A	0	68	291	11.7	501.41	501.41	502.41	1.0
B	375	41	244	13.9	514.58	514.58	514.58	0.0
C	653	46	254	13.4	518.23	518.23	518.23	0.0
D	888	50	250	13.6	523.21	523.21	523.21	0.0
E	1,176	72	277	12.3	526.77	526.77	526.77	0.0
F	1,454	79	313	8.6	532.00	532.00	532.40	0.4
G	2,346	124	366	7.4	538.40	538.40	538.40	0.0
H	3,081	65	623	3.7	546.10	546.10	546.70	0.6
I	4,005	62	310	7.4	551.70	551.70	552.40	0.7
J	4,745	43	191	12.0	565.90	565.90	565.90	0.0
K	5,652	45	311	5.9	580.70	580.70	580.70	0.0
L	6,240	50	368	5.0	588.40	588.40	589.10	0.7
M	6,816	100	254	6.3	595.60	595.60	596.00	0.4
N	7,704	60	240	6.7	607.70	607.70	608.10	0.4
O	8,317	66	350	3.4	619.30	619.30	620.30	1.0
P	9,046	45	143	8.4	629.20	629.20	629.20	0.0
Q	9,913	31	116	10.3	656.30	656.30	656.30	0.0
R	10,803	30	166	7.2	689.40	689.40	689.40	0.0
S	11,400	33	112	10.7	704.30	704.30	704.30	0.0

¹ Feet Above Limit of Detailed Study

TABLE 13

FEDERAL EMERGENCY MANAGEMENT AGENCY
SAN DIEGO COUNTY, CA
 AND INCORPORATED AREAS

FLOODWAY DATA

GREEN VALLEY CREEK

FLOODING SOURCE		FLOODWAY			1-PERCENT-ANNUAL-CHANCE FLOOD WATER-SURFACE ELEVATION (FEET NAVD)			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
Green Valley Creek Tributary								
A	357	135	268	1.1	592.0	592.0	593.0	1.0
B	891	64	89	3.4	597.6	597.6	597.7	0.1
C	1,908	50	124	1.6	617.1	617.1	618.0	0.9
D	2,618	41	32	4.7	637.9	637.9	637.9	0.0
E	3,180	41	26	3.8	651.3	651.3	651.3	0.0
F	3,817	41	23	4.4	660.7	660.7	660.7	0.0

¹ Feet Above Confluence with Green Valley Creek

TABLE 13

FEDERAL EMERGENCY MANAGEMENT AGENCY
SAN DIEGO COUNTY, CA
 AND INCORPORATED AREAS

FLOODWAY DATA

GREEN VALLEY CREEK TRIBUTARY

FLOODING SOURCE		FLOODWAY			1-PERCENT-ANNUAL-CHANCE FLOOD WATER-SURFACE ELEVATION (FEET NAVD)			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
Harbison Canyon Creek								
A	0	210	599	7.8	572.4	572.4	573.1	0.7
B	446	131	594	7.9	575.1	575.1	575.8	0.7
C	597	95	403	11.7	576.9	576.9	576.9	0.0
D	1,112	102	467	10.1	581.0	581.0	581.4	0.4
E	1,526	106	523	9.1	584.6	584.6	585.4	0.8
F	2,081	74	393	12.0	588.8	588.8	589.1	0.3
G	2,529	79	388	12.1	592.9	592.9	593.1	0.2
H	3,102	142	523	8.6	599.8	599.8	600.2	0.4
I	3,593	201	503	8.9	606.7	606.7	607.0	0.3
J	4,062	219	455	9.9	612.0	612.0	612.4	0.4
K	4,244	195	334	11.7	613.7	613.7	614.4	0.7
L	5,148	185	541	7.2	622.8	622.8	623.4	0.6
M	5,565	85	364	10.7	628.6	628.6	628.7	0.1
N	6,061	91	370	10.5	635.8	635.8	636.0	0.2
O	6,568	65	300	12.3	646.1	-- ²	-- ²	-- ²
P	7,093	67	305	12.1	670.8	670.8	671.2	0.4
Q	7,637	60	274	13.5	699.1	699.1	699.1	0.0
R	8,160	54	283	13.1	725.8	725.8	725.8	0.0
S	8,794	73	370	10.0	751.2	751.2	751.9	0.7
T	9,395	57	255	13.7	776.9	776.9	776.9	0.0
U	9,909	54	259	13.5	789.2	789.2	789.2	0.0
V	10,578	45	262	12.2	809.0	809.0	809.4	0.4
W	10,965	23	200	16.0	814.7	814.7	814.8	0.1
X	11,596	97	447	6.7	829.8	829.8	829.8	0.0
Y	12,611	68	294	10.2	859.2	859.2	859.2	0.0
Z	12,810	80	304	9.9	865.0	865.0	865.0	0.0

¹ Feet Above Limit of Detailed Study

² Data Not Available

TABLE 13

FEDERAL EMERGENCY MANAGEMENT AGENCY
**SAN DIEGO COUNTY, CA
AND INCORPORATED AREAS**

FLOODWAY DATA

HARBISON CANYON CREEK

FLOODING SOURCE		FLOODWAY			1-PERCENT-ANNUAL-CHANCE FLOOD WATER-SURFACE ELEVATION (FEET NAVD)			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
Harbison Canyon Creek (cont'd)								
AA	13,079	62	242	12.4	873.2	873.2	873.2	0.0
AB	13,669	55	234	10.7	890.2	890.2	890.7	0.5
AC	14,295	29	179	14.0	908.8	908.8	909.6	0.8
AD	14,849	104	272	9.2	928.6	928.6	929.6	1.0
AE	15,446	21	176	11.9	949.7	949.7	949.7	0.0
AF	16,015	40	176	11.9	987.7	987.7	987.7	0.0
AG	16,584	78	233	9.0	1,040.3	1,040.3	1,040.3	0.0

¹Feet Above Downstream Limit of Detailed Study

TABLE 13

FEDERAL EMERGENCY MANAGEMENT AGENCY
SAN DIEGO COUNTY, CA
 AND INCORPORATED AREAS

FLOODWAY DATA

HARBISON CANYON CREEK

FLOODING SOURCE		FLOODWAY			1-PERCENT-ANNUAL-CHANCE FLOOD WATER-SURFACE ELEVATION (FEET NAVD)			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
Hatfield Creek								
A	615	450	2,174	6.3	1,461.5	1,461.5	1,461.7	0.2
B	1,414	370	1,708	8.0	1,463.2	1,463.2	1,464.1	0.9
C	1,793	500	1,876	7.3	1,465.0	1,465.0	1,465.8	0.8
D	2,556	390	1,827	7.5	1,467.5	1,467.5	1,468.3	0.8
E	3,124	450	1,550	8.8	1,470.2	1,470.2	1,470.6	0.4
F	3,577	370	1,437	9.5	1,473.8	1,473.8	1,474.0	0.2
G	4,066	570	1,842	7.4	1,476.7	1,476.7	1,477.4	0.7
H	4,461	410	8,177	9.6	1,478.6	1,478.6	1,478.8	0.2
I	4,921	299	1,305	10.5	1,482.1	1,482.1	1,482.1	0.0
J	5,046	255	1,884	7.3	1,483.9	1,483.9	1,483.9	0.0

¹ Feet Above Confluence with Santa Maria Creek

TABLE 13

FEDERAL EMERGENCY MANAGEMENT AGENCY
SAN DIEGO COUNTY, CA
 AND INCORPORATED AREAS

FLOODWAY DATA

HATFIELD CREEK

FLOODING SOURCE		FLOODWAY			1-PERCENT-ANNUAL-CHANCE FLOOD WATER-SURFACE ELEVATION (FEET NAVD)			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
Home Avenue Branch								
C	1,190	27	123	9.8	96.3	96.3	97.1	0.8
D	1,390	24	113	10.6	98.3	98.3	99.1	0.8
E	2,000	37	211	5.7	105.9	105.9	106.7	0.8
F	3,040	24	119	10.1	122.6	122.6	123.5	0.9
I	4,770	30	148	8.1	148.3	148.3	149.1	0.8
J	6,010	32	102	11.7	162.3	162.3	163.0	0.7
K	7,590	12	61	11.8	185.3	185.3	186.1	0.8
R	12,850	13	47	9.7	266.8	266.8	267.5	0.7

¹Feet Above Confluence with Las Chollas Creek

TABLE 13

FEDERAL EMERGENCY MANAGEMENT AGENCY
SAN DIEGO COUNTY, CA
 AND INCORPORATED AREAS

FLOODWAY DATA

AUBURN CREEK

FLOODING SOURCE		FLOODWAY			1-PERCENT-ANNUAL-CHANCE FLOOD WATER-SURFACE ELEVATION (FEET NAVD)			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
Johnson Canyon Creek								
A	922	122	290	4.0	231.4	231.4	232.4	1.0
B	2,146	51	126	9.1	256.2	256.2	256.2	0.0
C	4,499	49	112	10.3	309.0	309.0	309.0	0.0
D	6,356	54	133	8.4	350.9	350.9	350.9	0.0
E	8,667	63	106	7.9	406.1	406.1	406.1	0.0
F	11,441	156	114	5.7	467.1	467.1	467.1	0.0
G	14,027	34	56	8.2	513.6	513.6	513.6	0.0

¹ Feet above confluence with Otay River

TABLE 13

FEDERAL EMERGENCY MANAGEMENT AGENCY
SAN DIEGO COUNTY, CA
 AND INCORPORATED AREAS

FLOODWAY DATA

JOHNSON CANYON CREEK

FLOODING SOURCE		FLOODWAY			1-PERCENT-ANNUAL-CHANCE FLOOD WATER-SURFACE ELEVATION (FEET NAVD)			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
Kit Carson Park Creek								
A	11,700	1,358	26,678	0.2	328.0	328.0	328.0	0.0
B	12,680	422	2,973	1.5	328.0	328.0	328.0	0.0
C	13,370	62	617	7.1	330.2	330.2	330.6	0.4
D - F ²								
G	15,890	405	3,130	1.2	357.4	357.4	358.4	1.0
H	16,710	212	440	8.2	366.6	366.6	367.0	0.4
I	17,350	250	873	4.1	373.4	373.4	373.7	0.3
J	18,000	253	465	7.7	380.2	380.2	380.2	0.0
K	18,690	246	799	4.5	388.4	388.4	388.8	0.4
L	18,930	462	715	5.0	391.0	391.0	391.2	0.2
M	19,340	648	1006	3.6	397.1	397.1	397.1	0.0
N	20,220	529	945	3.8	406.8	406.8	407.0	0.2
O	20,610	191	474	7.6	413.8	413.8	413.8	0.0
P	20,690	191	783	4.6	419.3	419.3	419.3	0.0
Q	21,390	223	847	4.3	421.3	421.3	422.3	1.0
R	22,170	70	258	10.9	431.6	431.6	431.6	0.0
S	23,090	80	483	5.8	443.1	443.1	443.6	0.5

¹ Feet Above Lake Hodges Dam

² Cross-Sections Removed by LOMR 07-09-1345P

TABLE 13

FEDERAL EMERGENCY MANAGEMENT AGENCY
SAN DIEGO COUNTY, CA
 AND INCORPORATED AREAS

FLOODWAY DATA

KIT CARSON PARK CREEK

FLOODING SOURCE		FLOODWAY			1-PERCENT-ANNUAL-CHANCE FLOOD WATER-SURFACE ELEVATION (FEET NAVD)			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
Las Chollas Creek								
A	2,720 ²	-- ³	-- ³	-- ³	18.4 ²	-- ³	-- ³	-- ³
B	3,130 ²	-- ³	-- ³	-- ³	20.1 ²	-- ³	-- ³	-- ³
C	3,410 ²	-- ³	-- ³	-- ³	20.7 ²	-- ³	-- ³	-- ³
D	3,810	485	4,637	1.7	21.7	21.7	21.8	0.1
E	4,470 ²	-- ³	-- ³	-- ³	22.0 ²	-- ³	-- ³	-- ³
F	5,360 ²	-- ³	-- ³	-- ³	22.2 ²	-- ³	-- ³	-- ³
G	6,200 ²	-- ³	-- ³	-- ³	22.1 ²	-- ³	-- ³	-- ³
H	6,740 ²	-- ³	-- ³	-- ³	24.6 ²	-- ³	-- ³	-- ³
I	7,720 ²	-- ³	-- ³	-- ³	29.0 ²	-- ³	-- ³	-- ³
J	8,720 ²	-- ³	-- ³	-- ³	38.6 ²	-- ³	-- ³	-- ³
K	9,490 ²	-- ³	-- ³	-- ³	45.1 ²	-- ³	-- ³	-- ³
L	10,190 ²	-- ³	-- ³	-- ³	47.6 ²	-- ³	-- ³	-- ³
M	11,260	81	730	9.7	57.6	57.6	58.2	0.6
N	12,500	65	568	8.3	66.9	66.9	67.0	0.1
O	13,070 ²	-- ³	-- ³	-- ³	72.7 ²	-- ³	-- ³	-- ³
P	13,350 ²	-- ³	-- ³	-- ³	73.2 ²	-- ³	-- ³	-- ³
Q	14,370 ²	-- ³	-- ³	-- ³	82.7 ²	-- ³	-- ³	-- ³
R	14,840 ²	-- ³	-- ³	-- ³	84.3 ²	-- ³	-- ³	-- ³
S	15,580 ²	-- ³	-- ³	-- ³	93.7 ²	-- ³	-- ³	-- ³
T	16,780 ²	-- ³	-- ³	-- ³	102.6 ²	-- ³	-- ³	-- ³
U	17,870 ²	-- ³	-- ³	-- ³	111.6 ²	-- ³	-- ³	-- ³
V	18,090 ²	-- ³	-- ³	-- ³	116.4 ²	-- ³	-- ³	-- ³
W	18,640	101	447	7.8	121.4	121.4	122.3	0.9
X	19,160	156	480	7.3	124.8	124.8	125.5	0.7
Y	19,910	111	696	5.0	134.5	134.5	135.4	0.9
Z	20,400	123	700	5.0	137.7	137.7	138.6	0.9

¹ Feet Above Mouth

² Values Measured Using 1% Annual Chance Flood Profile

³ Data not Available

FLOODING SOURCE		FLOODWAY			1-PERCENT-ANNUAL-CHANCE FLOOD WATER-SURFACE ELEVATION (FEET NAVD)			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
Las Chollas Creek (cont'd)								
AA	20,930	190	770	4.5	149.0	149.0	149.1	0.1
AB	21,980	40	247	14.2	159.2	159.2	159.2	0.0
AC	22,550	77	388	7.7	165.5	165.5	165.6	0.1
AD	22,900	66	264	11.4	168.6	168.6	168.6	0.0
AE	23,510	119	376	8.0	174.2	174.2	174.2	0.0
AF	24,060	94	304	9.9	182.4	182.4	183.1	0.7
AG	24,610	271	788	3.8	189.9	189.9	190.7	0.8
AH	25,010	270	1,146	2.6	201.1	201.1	201.1	0.0
AI	25,560	48	292	10.3	205.3	205.3	205.9	0.6
AJ	26,120	86	284	10.6	209.8	209.8	210.1	0.3
AK	26,460	70	360	8.3	213.6	213.6	214.5	0.9
AL	27,290	147	354	8.5	228.6	228.6	228.6	0.0
AM	27,840	83	389	7.7	235.8	235.8	236.6	0.8
AN	28,350	46	274	10.9	241.4	241.4	241.5	0.1
AO	28,660	35	213	14.1	248.0	248.0	248.0	0.0
AP	29,030	104	859	3.5	258.9	258.9	259.1	0.2
AQ	29,410	76	384	7.8	259.9	259.9	260.0	0.1
AR	29,960	106	396	7.6	266.5	266.5	266.5	0.0
AS	30,400	42	226	13.2	272.2	272.2	272.2	0.0

¹ Feet Above Mouth

FLOODING SOURCE		FLOODWAY			1-PERCENT-ANNUAL-CHANCE FLOOD WATER-SURFACE ELEVATION (FEET NAVD)			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
Las Posas Creek (Upper)								
A	2,325	230	244	6.5	541.7	541.7	541.7	0.0
B	2,535	45	97	9.4	542.3	542.3	543.1	0.8
C	3,175	35	160	5.8	551.4	551.4	551.4	0.0
D	3,785	160	204	7.0	553.0	553.0	554.0	1.0
E	4,400	70	163	8.7	559.1	559.1	559.1	0.0
F	5,325	37	160	8.9	567.8	567.8	567.9	0.1
G	5,975	20	109	13.0	571.7	571.7	572.1	0.4

¹Feet Above Linda Vista Drive

TABLE 13

FEDERAL EMERGENCY MANAGEMENT AGENCY
SAN DIEGO COUNTY, CA
 AND INCORPORATED AREAS

FLOODWAY DATA

LAS POSAS CREEK (UPPER)

FLOODING SOURCE		FLOODWAY			1-PERCENT-ANNUAL-CHANCE FLOOD WATER-SURFACE ELEVATION (FEET NAVD)			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
Lawson Valley Creek								
A	7,200	101	782	11.5	1,574.6	1,574.6	1,575.6	1.0
B	8,050	78	591	15.2	1,585.3	1,585.3	1,585.3	0.0
C	8,330	98	649	13.9	1,590.8	1,590.8	1,590.8	0.0
D	8,385	98	1,032	8.7	1,595.2	1,595.2	1,595.2	0.0
E	9,125	85	618	14.6	1,608.7	1,608.7	1,608.7	0.0
F	9,525	70	561	16.0	1,616.1	1,616.1	1,616.1	0.0
G	10,254	89	610	14.8	1,628.9	1,628.9	1,629.0	0.1
H	10,631	130	994	9.1	1,636.9	1,636.9	1,636.9	0.0
I	10,696	142	1,225	7.3	1,639.1	1,639.1	1,639.1	0.0
J	10,951	195	1,170	7.7	1,642.4	1,642.4	1,642.4	0.0
K	10,986	141	1,313	6.9	1,644.1	1,644.1	1,644.1	0.0
L	11,444	159	794	11.3	1,647.8	1,647.8	1,647.8	0.0
M	11,814	87	621	14.5	1,650.9	1,650.9	1,650.9	0.0
N	12,184	91	951	9.5	1,663.2	1,663.2	1,663.2	0.0
O	12,289	87	1,157	7.8	1,663.9	1,663.9	1,663.9	0.0
P	12,699	143	799	11.3	1,665.3	1,665.3	1,665.3	0.0
Q	13,443	85	648	13.9	1,689.3	1,689.3	1,689.3	0.0
R	14,264	81	889	10.1	1,750.0	1,750.0	1,750.0	0.0
S	14,308	84	1,067	8.4	1,755.0	1,755.0	1,755.0	0.0
T	15,144	82	529	13.6	1,766.5	1,766.5	1,766.5	0.0
U	15,894	60	466	15.4	1,774.1	1,774.1	1,774.1	0.0
V	16,304	70	502	14.3	1,784.9	1,784.9	1,784.9	0.0
W	17,077	78	525	13.6	1,820.7	1,820.7	1,820.7	0.0
X	17,878	85	539	13.3	1,863.5	1,863.5	1,863.5	0.0
Y	18,602	101	594	12.1	1,916.5	1,916.5	1,916.5	0.0
Z	18,962	102	597	12.0	1,924.2	1,924.2	1,924.2	0.0

¹Feet Above Confluence with Sweetwater River

TABLE 13

FEDERAL EMERGENCY MANAGEMENT AGENCY
SAN DIEGO COUNTY, CA
 AND INCORPORATED AREAS

FLOODWAY DATA

LAWSON VALLEY CREEK

FLOODING SOURCE		FLOODWAY			1-PERCENT-ANNUAL-CHANCE FLOOD WATER-SURFACE ELEVATION (FEET NAVD)			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
Lawson Valley Creek (cont'd)								
AA	19,278	258	951	7.5	1,942.8	1,942.8	1,942.9	0.1
AB	19,351	254	1,019	7.0	1,945.9	1,945.9	1,945.9	0.0
AC	19,959	236	1,079	6.6	1,951.2	1,951.2	1,952.0	0.8
AD	20,849	317	907	7.9	1,961.9	1,961.9	1,962.1	0.2

¹ Feet Above Confluence with Sweetwater River

TABLE 13

FEDERAL EMERGENCY MANAGEMENT AGENCY
SAN DIEGO COUNTY, CA
 AND INCORPORATED AREAS

FLOODWAY DATA

LAWSON VALLEY CREEK

FLOODING SOURCE		FLOODWAY			1-PERCENT-ANNUAL-CHANCE FLOOD WATER-SURFACE ELEVATION (FEET NAVD)			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
Loma Alta Creek								
A	0	300	1,297	2.9	14.3	14.3	15.3	1.0
B	440	400	2,605	1.5	14.8	14.8	15.7	0.9
C	520	350	2,174	1.7	14.8	14.8	15.7	0.9
D	1,260	300	1,794	2.1	14.9	14.9	15.9	1.0
E	1,370	300	1,917	2.0	15.1	15.1	16.0	0.9
F	1,930	130	634	6.0	15.1	15.1	16.0	0.9
G	2,300	222	639	5.9	15.6	15.6	16.2	0.6
H	3,155	334	922	4.1	18.0	18.0	18.4	0.4
I	3,200	341	1,073	3.5	18.3	18.3	18.6	0.3
J	3,865	337	946	4.0	18.9	18.9	19.1	0.2
K	4,150	565	1,380	2.8	19.3	19.3	19.5	0.2
L	4,595	696	1,009	3.8	22.2	22.2	22.2	0.0
M	4,610	696	1,353	2.8	22.8	22.8	22.8	0.0
N	4,845	675	908	4.2	23.4	23.4	23.4	0.0
O	5,160	708	3,109	1.2	24.3	24.3	24.3	0.0
P	5,420	755 ²	648	5.9	25.0	25.0	25.0	0.0
Q	5,537	770 ²	566	6.7	25.6	25.6	25.6	0.0
R	6,275	800	1,562	2.4	28.1	28.1	28.5	0.4
S	6,325	800	1,702	2.2	28.2	28.2	28.6	0.4
T	6,775	543 ²	976	3.9	28.5	28.5	29.1	0.6
U	7,520	125	441	8.6	31.5	31.5	32.5	1.0
V	8,090	463	1,599	2.4	34.1	34.1	34.9	0.8
W	8,140	495	1,177	3.2	34.2	34.2	34.9	0.7
X	8,180	537 ²	511	7.4	35.8	35.8	35.8	0.0
Y	8,520	306 ²	798	4.8	38.9	38.9	39.4	0.5
Z	8,620	240	918	4.1	40.3	40.3	40.3	0.0

¹ Feet Above Pacific Street

² Width includes Islands

TABLE 13

FEDERAL EMERGENCY MANAGEMENT AGENCY
SAN DIEGO COUNTY, CA
 AND INCORPORATED AREAS

FLOODWAY DATA

LOMA ALTA CREEK

FLOODING SOURCE		FLOODWAY			1-PERCENT-ANNUAL-CHANCE FLOOD WATER-SURFACE ELEVATION (FEET NAVD)			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
Loma Alta Creek (cont'd)								
AA	8,825	159	518	7.3	40.5	40.5	40.8	0.3
AB	9,443	414	1,179	3.2	42.5	42.5	43.5	1.0
AC	10,160	314	626	6.1	46.8	46.8	46.8	0.0
AD	10,960	140	618	6.1	51.5	51.5	51.8	0.3
AE	11,465	112	457	8.3	54.0	54.0	54.4	0.4
AF	11,970	288	747	5.1	57.8	57.8	58.2	0.4
AG	12,500	319	832	4.3	59.9	59.9	60.2	0.3
AH	12,810	285	546	7.0	61.7	61.7	62.5	0.8
AI	13,300	277	939	4.0	64.8	64.8	65.6	0.8
AJ	13,830	224	827	2.7	66.2	66.2	66.7	0.5
AK	14,460	60	213	10.3	68.8	68.8	69.1	0.3
AL	15,120	246	578	3.8	74.8	74.8	75.3	0.5
AM	15,510	110	255	8.6	78.0	78.0	78.5	0.5
AN	15,690	279	528	4.2	81.9	81.9	82.4	0.5
AO	16,050	84	265	8.3	84.6	84.6	84.6	0.0
AP	16,742	68	230	9.6	92.2	92.2	92.8	0.6
AQ	17,175	54	221	10.0	97.6	97.6	98.6	1.0
AR	17,740	268 ²	378	5.8	104.9	104.9	105.2	0.3
AS	17,780	327 ²	338	6.5	107.0	107.0	107.1	0.1
AT	17,835	267	957	2.3	107.8	107.8	107.8	0.0
AU	17,995	140 ²	700	3.2	110.5	110.5	110.5	0.0
AV	18,075	138 ²	699	3.1	113.0	113.0	113.0	0.0
AW	18,540	84	231	9.5	113.3	113.3	113.3	0.0
AX	18,610	49	194	11.4	114.6	114.6	114.7	0.1
AY	18,780	161 ²	473	4.7	117.0	117.0	118.0	1.0
AZ	18,960	172 ²	291	7.6	118.7	118.7	118.8	0.1

¹ Feet Above Pacific Street

² Width includes Islands

TABLE 13

FEDERAL EMERGENCY MANAGEMENT AGENCY
SAN DIEGO COUNTY, CA
 AND INCORPORATED AREAS

FLOODWAY DATA

LOMA ALTA CREEK

FLOODING SOURCE		FLOODWAY			1-PERCENT-ANNUAL-CHANCE FLOOD WATER-SURFACE ELEVATION (FEET NAVD)			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
Loma Alta Creek (cont'd)								
BA	19,345	74	230	9.6	122.6	122.6	123.0	0.4
BB	19,438	68	213	10.3	123.4	123.4	124.1	0.7
BC	19,577	55	202	10.9	125.8	125.8	126.5	0.7
BD	19,635	62	218	10.1	128.2	128.2	129.0	0.8
BE	20,140	127	402	5.5	132.9	132.9	133.5	0.6
BF	20,202	89	235	9.4	133.4	133.4	133.5	0.1
BG	20,445	96	299	7.4	136.7	136.7	136.7	0.0
BH	21,090	62	239	9.2	142.1	142.1	142.8	0.7
BI	21,680	77	253	8.7	147.4	147.4	147.6	0.2
BJ	22,000	297	730	2.3	149.0	149.0	149.8	0.8
BK	22,660	210	263	6.5	152.2	152.2	152.2	0.0
BL	23,440	131	314	5.4	159.4	159.4	160.2	0.8
BM	24,140	211	300	5.7	166.3	166.3	166.3	0.0
BN	24,590	96	303	5.6	169.5	169.5	169.9	0.4
BO	24,840	200	314	5.4	171.5	171.5	171.8	0.3
BP	25,370	259	333	5.1	178.1	178.1	178.1	0.0
BQ	25,510	85	196	8.7	179.8	179.8	180.4	0.6
BR	25,910	108	312	5.5	183.8	183.8	184.8	1.0
BS	26,642	79	190	8.9	193.3	193.3	193.3	0.0
BT	27,280	66	209	8.1	201.6	201.6	202.1	0.5
BU	27,370	146	303	5.6	202.9	202.9	203.3	0.4
BV	28,020	100	199	8.5	210.2	210.2	210.7	0.5
BW	28,990	209	328	5.2	220.2	220.2	221.2	1.0
BX	29,525	80	196	8.7	226.9	226.9	227.7	0.8
BY	29,955	52	228	8.6	231.3	231.3	231.3	0.0
BZ	30,580	84	285	4.5	239.8	239.8	239.8	0.0

¹ Feet Above Pacific Street

TABLE 13

FEDERAL EMERGENCY MANAGEMENT AGENCY
SAN DIEGO COUNTY, CA
 AND INCORPORATED AREAS

FLOODWAY DATA

LOMA ALTA CREEK

FLOODING SOURCE		FLOODWAY			1-PERCENT-ANNUAL-CHANCE FLOOD WATER-SURFACE ELEVATION (FEET NAVD)			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
Loma Alta Creek (cont'd)								
CA	31,180	72	275	5.2	248.4	248.4	248.4	0.0
CB	31,580	84	182	7.2	249.7	249.7	250.5	0.2
CC	32,025	168	178	7.3	254.3	254.3	254.6	0.3
CD	32,433	56	131	5.4	261.5	261.5	261.5	0.0
CE	32,715	36	92	7.7	266.0	266.0	266.0	0.0
CF	33,359	25	72	9.8	271.4	271.4	271.4	0.0
CG	34,123	33	99	7.2	285.8	285.8	285.8	0.0
CH	34,585	27	77	9.3	291.1	291.1	291.1	0.0
CI	35,117	36	97	7.3	302.0	302.0	302.0	0.0
CJ	35,747	40	98	7.3	313.2	313.2	313.2	0.0

¹ Feet Above Pacific Street

TABLE 13

FEDERAL EMERGENCY MANAGEMENT AGENCY
SAN DIEGO COUNTY, CA
 AND INCORPORATED AREAS

FLOODWAY DATA

LOMA ALTA CREEK

FLOODING SOURCE		FLOODWAY			1-PERCENT-ANNUAL-CHANCE FLOOD WATER-SURFACE ELEVATION (FEET NAVD)			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
Los Penasquitos Creek								
A	1,470	150	1,504	12.1	37.4	37.4	37.8	0.4
B	2,044	289	3,226	5.1	42.2	42.2	42.2	0.0
C	2,279	360	4,430	3.5	42.4	42.4	42.4	0.0
D	2,569	265	2,490	7.4	42.6	42.6	42.6	0.0
E	2,909	202	2,492	6.8	43.1	43.1	43.5	0.4
F	3,249	222	2,547	6.6	44.1	44.1	44.6	0.5
G	3,619	271	2,966	5.7	45.1	45.1	45.8	0.7
H	4,339	399	4,080	4.2	47.4	47.4	48.2	0.8
I	5,545	500	3,743	4.8	48.0	48.0	48.7	0.7
J	5,905	530	3,770	4.3	48.0	48.0	48.9	0.9
K	6,283	600	3,503	4.9	48.3	48.3	49.1	0.8
L	6,915	600	2,252	7.3	48.8	48.8	49.5	0.7
M	7,367	590	2,461	7.6	50.0	50.0	50.9	0.9
N	7,783	550	2,370	8.3	51.2	51.2	51.7	0.5
O	8,274	304	1,418	11.8	53.3	53.3	53.6	0.3
P	8,904	540	2,555	6.6	56.6	56.6	57.1	0.5
Q	9,424	500	2,130	7.9	57.8	57.8	58.0	0.2
R	10,114	239	1,272	13.2	59.6	59.6	59.8	0.2
S	10,440	230	1,650	10.2	61.5	61.5	62.3	0.8
T	10,924	400	2,838	5.9	63.0	63.0	64.0	1.0
U	11,444	371	2,147	7.8	63.4	63.4	64.2	0.8
V	11,904	466	2,895	5.8	64.7	64.7	65.4	0.7
W	12,474	258	1,312	12.8	66.5	66.5	66.9	0.4
X	13,154	229	1,307	12.9	73.3	73.3	73.3	0.0
Y	13,310	100	956	17.6	73.9	73.9	73.9	0.0
Z	13,420	89	925	18.2	75.9	75.9	75.9	0.0

¹ Feet Above Mouth

TABLE 13

FEDERAL EMERGENCY MANAGEMENT AGENCY
SAN DIEGO COUNTY, CA
 AND INCORPORATED AREAS

FLOODWAY DATA

LOS PENASQUITOS CREEK

FLOODING SOURCE		FLOODWAY			1-PERCENT-ANNUAL-CHANCE FLOOD WATER-SURFACE ELEVATION (FEET NAVD)			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
Los Penasquitos Creek (cont'd)								
AA	13,590	360	5,583	3.0	81.5	81.5	81.5	0.0
AB	14,094	440	6,353	2.6	81.6	81.6	81.6	0.0
AC	14,392	469	5,824	2.9	81.6	81.6	81.6	0.0
AD	15,206	426	4,100	4.1	81.7	81.7	81.7	0.0
AE	15,836	539	4,036	4.2	81.9	81.9	82.0	0.1
AF	16,595	503	1,716	9.8	82.7	82.7	82.7	0.0
AG	16,835	740	2,017	8.3	84.0	84.0	84.0	0.0
AH	17,145	331	1,738	9.7	85.5	85.5	85.5	0.0
AI	17,495	201	1,196	14.0	86.5	86.5	87.0	0.5
AJ	17,811	158	1,286	13.1	88.7	88.7	89.7	1.0
AK	18,241	94	940	17.9	92.6	92.6	93.5	0.9
AL	18,706	130	1,080	15.6	105.3	105.3	106.0	0.7
AM	19,150	89	943	17.8	109.0	109.0	109.9	0.9
AN	19,514	137	1,099	15.3	113.0	113.0	113.6	0.6
AO	19,858	125	1,056	15.9	118.7	118.7	118.7	0.0
AP	20,018	138	1,053	16.0	121.7	121.7	121.7	0.0
AQ	20,234	75	871	19.3	143.0	143.0	143.0	0.0
AR	20,378	140	1,106	15.2	153.8	153.8	153.8	0.0
AS	20,544	330	2,087	8.0	157.5	157.5	157.5	0.0
AT	20,824	588	1,957	8.6	158.4	158.4	158.4	0.0
AU	21,050	510	2,393	7.0	160.6	160.6	160.6	0.0
AV	21,214	537	2,734	6.1	161.4	161.4	162.2	0.8
AW	21,480	619	3,092	5.4	162.8	162.8	163.5	0.7
AX	21,806	319	1,851	9.1	163.8	163.8	164.2	0.4
AY	22,091	529	2,075	8.1	165.8	165.8	165.8	0.0
AZ	22,401	615	3,537	4.8	168.6	168.6	168.7	0.1

¹ Feet Above Mouth

TABLE 13

FEDERAL EMERGENCY MANAGEMENT AGENCY
SAN DIEGO COUNTY, CA
 AND INCORPORATED AREAS

FLOODWAY DATA

LOS PENASQUITOS CREEK

FLOODING SOURCE		FLOODWAY			1-PERCENT-ANNUAL-CHANCE FLOOD WATER-SURFACE ELEVATION (FEET NAVD)			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
Los Penasquitos Creek (cont'd)								
BA	22,744	805	3,144	5.3	169.3	169.3	169.4	0.1
BB	23,030	489	2,139	7.9	170.2	170.2	170.2	0.0
BC	23,373	477	2,074	8.1	172.1	172.1	172.7	0.6
BD	23,717	514	3,037	5.5	174.6	174.6	175.1	0.5
BE	24,041	380	1,900	8.8	176.1	176.1	176.8	0.7
BF	24,327	388	2,229	7.5	179.6	179.6	180.1	0.5
BG	24,463	465	2,559	6.6	180.4	180.4	180.9	0.5
BH	24,630	490	2,869	5.9	181.2	181.2	181.8	0.6
BI	24,916	340	1,798	9.3	182.3	182.3	182.7	0.4
BJ	25,242	527	2,438	6.9	185.9	185.9	186.5	0.6
BK	25,552	737	3,278	5.1	188.4	188.4	189.0	0.6
BL	25,852	716	2,768	6.1	190.3	190.3	190.8	0.5
BM	26,162	701	3,730	4.5	192.3	192.3	192.9	0.6
BN	26,452	587	4,037	4.2	193.1	193.1	193.7	0.6
BO	26,768	502	2,564	6.6	194.0	194.0	194.6	0.6
BP	27,054	505	2,853	5.9	196.0	196.0	196.6	0.6
BQ	27,220	472	2,527	6.6	197.0	197.0	197.6	0.6
BR	27,360	597	3,687	4.6	197.9	197.9	198.6	0.7
BS	27,643	488	1,833	9.2	201.4	201.4	201.8	0.4
BT	27,957	539	3,133	5.4	204.6	204.6	205.3	0.7
BU	28,261	573	4,178	4.0	205.6	205.6	206.3	0.7
BV	28,551	583	4,004	4.2	206.0	206.0	206.7	0.7
BW	28,851	565	3,317	5.1	206.4	206.4	207.1	0.7
BX	29,155	346	1,489	11.3	207.6	207.6	208.0	0.4
BY	29,451	559	3,367	5.0	210.5	210.5	211.4	0.9
BZ	29,767	461	2,919	5.8	211.6	211.6	212.3	0.7

¹ Feet Above Mouth

TABLE 13

FEDERAL EMERGENCY MANAGEMENT AGENCY
SAN DIEGO COUNTY, CA
 AND INCORPORATED AREAS

FLOODWAY DATA

LOS PENASQUITOS CREEK

FLOODING SOURCE		FLOODWAY			1-PERCENT-ANNUAL-CHANCE FLOOD WATER-SURFACE ELEVATION (FEET NAVD)			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
Los Penasquitos Creek (cont'd)								
CA	30,057	465	2,145	7.8	213.0	213.0	213.6	0.6
CB	30,183	539	3,483	4.8	214.4	214.4	215.0	0.6
CC	30,353	631	3,417	4.9	214.9	214.9	215.5	0.6
CD	30,643	548	2,799	6.0	215.8	215.8	216.3	0.5
CE	30,943	462	2,087	8.0	216.9	216.9	217.4	0.5
CF	31,249	477	3,271	5.1	219.3	219.3	219.9	0.6
CG	31,545	623	3,205	5.2	220.4	220.4	220.9	0.5
CH	31,855	593	3,522	4.8	222.0	222.0	222.1	0.1
CI	32,149	636	1,993	8.4	224.1	224.1	224.3	0.2
CJ	32,623	359	2,208	7.6	228.2	228.2	228.2	0.0
CK	32,769	357	2,524	6.7	228.7	228.7	229.1	0.4
CL	33,032	391	2,507	6.7	229.4	229.4	230.2	0.8
CM	33,296	391	1,545	10.9	231.4	231.4	231.6	0.2
CN	33,642	497	3,505	4.8	233.6	233.6	234.4	0.8
CO	34,172	636	1,909	8.8	234.9	234.9	235.3	0.4
CP	34,528	814	2,798	6.0	237.8	237.8	238.4	0.6
CQ	34,818	823	2,847	5.9	239.0	239.0	239.5	0.5
CR	35,146	889	3,361	5.0	240.1	240.1	240.7	0.6
CS	35,456	499	1,646	10.2	241.1	241.1	241.3	0.2
CT	35,728	763	3,109	5.4	243.2	243.2	244.1	0.9
CU	35,998	652	2,609	6.4	244.3	244.3	244.9	0.6
CV	36,230	515	1,986	8.5	245.1	245.1	245.6	0.5
CW	36,534	334	1,509	11.1	247.4	247.4	247.8	0.4
CX	36,838	473	2,434	6.9	250.3	250.3	251.0	0.7
CY	37,388	472	2,748	6.1	252.2	252.2	252.7	0.5
CZ	37,696	266	1,348	12.5	255.0	255.0	255.3	0.3

¹ Feet Above Mouth

TABLE 13

FEDERAL EMERGENCY MANAGEMENT AGENCY
SAN DIEGO COUNTY, CA
 AND INCORPORATED AREAS

FLOODWAY DATA

LOS PENASQUITOS CREEK

FLOODING SOURCE		FLOODWAY			1-PERCENT-ANNUAL-CHANCE FLOOD WATER-SURFACE ELEVATION (FEET NAVD)			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
Los Penasquitos Creek (cont'd)								
DA	38,216	141	1,146	14.7	259.5	259.5	259.9	0.4
DB	38,716	119	1,053	16.0	264.0	264.0	264.1	0.1
DC	39,216	189	1,556	10.8	269.7	269.7	269.7	0.0
DD	39,807	97	940	17.9	272.1	272.1	272.2	0.1
DE	40,237	138	1,542	10.9	277.5	277.5	278.1	0.6
DF	40,667	222	1,506	11.2	279.6	279.6	280.1	0.5
DG	40,841	153	1,118	15.0	281.7	281.7	282.0	0.3
DH	41,105	112	991	17.0	285.1	285.1	285.1	0.0
DI	41,855	162	1,729	9.7	291.5	291.5	292.5	1.0
DJ	42,359	116	1,019	16.5	295.6	295.6	295.7	0.1
DK	42,913	187	1,678	10.0	301.3	301.3	302.3	1.0
DL	43,293	121	1,137	14.8	303.1	303.1	304.0	0.9
DM	43,845	83	943	17.8	310.9	310.9	310.9	0.0
DN	44,475	132	1,698	9.1	317.8	317.8	318.8	1.0
DO	44,835	245	2,427	6.3	319.7	319.7	320.5	0.8
DP	45,315	231	1,506	10.2	321.4	321.4	321.9	0.5
DQ	45,745	177	1,343	11.5	323.8	323.8	324.4	0.6
DR	46,000	149	1,410	10.9	325.3	325.3	326.1	0.8
DS	46,300	156	1,327	11.6	326.7	326.7	327.3	0.6
DT	46,475	169	1,510	10.2	328.6	328.6	329.2	0.6
DU	46,715	118	1,032	14.9	330.3	330.3	330.3	0.0
DV	47,115	79	895	17.2	336.4	336.4	336.4	0.0
DW	47,555	92	1,230	12.5	341.6	341.6	342.6	1.0
DX	47,765	75	856	18.0	343.1	343.1	343.2	0.1
DY	48,020	107	1,148	12.2	347.6	347.6	347.6	0.0
DZ	48,242	274	3,247	4.3	355.4	355.4	355.4	0.0

¹ Feet Above Mouth

TABLE 13

FEDERAL EMERGENCY MANAGEMENT AGENCY
SAN DIEGO COUNTY, CA
 AND INCORPORATED AREAS

FLOODWAY DATA

LOS PENASQUITOS CREEK

FLOODING SOURCE		FLOODWAY			1-PERCENT-ANNUAL-CHANCE FLOOD WATER-SURFACE ELEVATION (FEET NAVD)			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
Los Penasquitos Creek (cont'd)								
EA	48,609	305	3,528	4.0	355.5	355.5	355.5	0.0
EB	49,008	231	2,772	5.0	355.6	355.6	355.6	0.0
EC	49,288	203	2,513	5.6	355.7	355.7	355.7	0.0
ED	49,635	255	2,553	5.5	356.1	356.1	356.1	0.0
EE	50,200	369	1,990	7.0	357.7	-- ²	-- ²	-- ²
EF	50,709	519	3,009	4.7	358.5	358.5	358.5	0.0
EG	51,278	411	2,110	6.6	367.4	367.4	367.4	0.0
EH	51,637	485	2,673	5.2	369.2	369.2	369.2	0.0
EI	52,272	476	3,376	4.1	370.4	370.4	370.4	0.0
EJ	52,641	297	2,408	5.8	371.1	371.1	371.1	0.0
EK	53,096	114	883	15.9	374.8	374.8	374.8	0.0
EL	53,310	200	2,181	6.4	379.3	379.3	379.3	0.0
EM	55,543	148	1,366	10.2	397.8	397.8	397.8	0.0
EN	56,039	201	1,477	19.5	400.6	400.6	400.6	0.0
EO	56,452	139	1,354	10.3	403.1	403.1	403.1	0.0
EP	56,930	94	897	15.6	406.0	406.0	406.2	0.2

¹ Feet Above Mouth

² Data Not Available

TABLE 13

FEDERAL EMERGENCY MANAGEMENT AGENCY
SAN DIEGO COUNTY, CA
 AND INCORPORATED AREAS

FLOODWAY DATA

LOS PENASQUITOS CREEK

FLOODING SOURCE		FLOODWAY			1-PERCENT-ANNUAL-CHANCE FLOOD WATER-SURFACE ELEVATION (FEET NAVD)			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
Lusardi Creek								
A	0	95	443	8.4	59.6	-- ²	-- ²	-- ²
B	566	31	295	12.7	59.6	59.6	59.9	0.3
C	1,026	113	896	4.2	69.4	69.4	70.0	0.6
D	1,682	98	653	5.7	77.2	77.2	77.8	0.6
E	2,278	61	397	9.4	85.2	85.2	86.0	0.8
F	2,964	73	604	6.2	92.2	92.2	93.0	0.8
G	3,610	37	341	11.0	101.7	101.7	102.5	0.8
H	4,272	44	371	10.1	112.1	112.1	112.7	0.6
I	4,974	59	413	9.1	126.7	126.7	127.6	0.9
J	5,486	47	430	8.7	135.7	135.7	136.0	0.3

¹ Feet Above Confluence with San Dieguito River

² Data Not Available

TABLE 13

FEDERAL EMERGENCY MANAGEMENT AGENCY
SAN DIEGO COUNTY, CA
 AND INCORPORATED AREAS

FLOODWAY DATA

LUSARDI CREEK

FLOODING SOURCE		FLOODWAY			1-PERCENT-ANNUAL-CHANCE FLOOD WATER-SURFACE ELEVATION (FEET NAVD)			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
McGonigle Canyon Creek								
A	15,843	101	345	3.5	285.7	285.7	386.3	0.6
B	16,658	42	170	5.0	299.9	299.9	300.4	0.5
C	17,541	51	187	4.6	321.4	321.4	322.4	1.0
D	18,224	77	570	1.0	340.4	340.4	340.4	0.0
E	19,005	115	1270	0.4	351.4	351.4	351.4	0.0
F	19,417	39	162	3.3	353.1	353.1	353.2	0.1
G	19,746	33	107	5.2	358.0	358.0	359.0	1.0

¹ Feet Above Confluence with Carmel Valley Creek

TABLE 13

FEDERAL EMERGENCY MANAGEMENT AGENCY
SAN DIEGO COUNTY, CA
 AND INCORPORATED AREAS

FLOODWAY DATA

MCGONIGLE CANYON CREEK

FLOODING SOURCE		FLOODWAY			1-PERCENT-ANNUAL-CHANCE FLOOD WATER-SURFACE ELEVATION (FEET NAVD)			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
Mexican Canyon Creek								
A	1,143	137	338	6.7	377.6	377.6	377.6	0.0
B	2,583	41	186	12.1	403.9	403.9	403.9	0.0
C	3,326	132	282	9.2	415.9	415.9	415.9	0.0
D	4,826	99	249	9.1	450.4	450.4	450.4	0.0
E	6,150	30	134	12.4	471.8	471.8	471.8	0.0
F	6,926	57	348	3.2	493.6	493.6	493.6	0.0
G	8,460	63	139	8.1	537.7	537.7	537.8	0.1
H	9,576	81	141	7.9	577.5	577.5	577.5	0.0
I	9,722	45	178	6.3	585.9	585.9	586.5	0.6

¹ Feet Above Confluence with Sweetwater River

TABLE 13

FEDERAL EMERGENCY MANAGEMENT AGENCY
SAN DIEGO COUNTY, CA
 AND INCORPORATED AREAS

FLOODWAY DATA

MEXICAN CANYON CREEK

FLOODING SOURCE		FLOODWAY			1-PERCENT-ANNUAL-CHANCE FLOOD WATER-SURFACE ELEVATION (FEET NAVD)			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
Moosa Creek (North Branch)								
A	0	96	643	4.9	1,411.5	1,411.5	1,412.2	0.7
B	26	103	492	6.3	1,412.2	1,412.2	1,412.2	0.0
C	266	102	443	7.0	1,418.1	1,418.1	1,419.1	1.0
D	676	80	287	10.9	1,435.7	1,435.7	1,435.7	0.0
E	1,036	93	4.1	7.8	1,452.3	1,452.3	1,452.7	0.4
F	1,436	66	443	7.1	1,458.3	1,458.3	1,458.8	0.5
G	1,626	94	363	8.6	1,461.1	1,461.1	1,461.4	0.3
H	1,686	132	750	4.2	1,465.3	1,465.3	1,465.3	0.0
I	1,966	134	478	6.5	1,467.8	1,467.8	1,468.1	0.3
J	2,181	122	608	5.1	1,471.9	1,471.9	1,472.9	1.0
K	2,491	156	455	6.9	1,481.3	1,481.3	1,481.4	0.1
L	2,641	115	460	6.8	1,491.0	-- ²	-- ²	-- ²
M	2,681	134	605	5.2	1,493.8	1,493.8	1,493.8	0.0
N	2,911	115	531	5.9	1,497.3	1,497.3	1,498.1	0.8
O	3,221	86	562	5.6	1,500.4	1,500.4	1,501.3	0.9
P	3,741	51	321	9.7	1,507.3	1,507.3	1,508.3	1.0
Q	4,236	110	632	4.9	1,520.9	1,520.9	1,521.8	0.9
R	4,296	114	689	4.5	1,522.5	1,522.5	1,522.5	0.0
S	4,676	110	440	7.1	1,525.1	1,525.1	1,525.4	0.3
T	5,156	118	488	6.4	1,531.8	1,531.8	1,532.8	1.0
U	5,591	58	288	8.3	1,537.2	1,537.2	1,538.1	0.9
V	5,961	61	219	10.9	1,547.9	1,547.9	1,547.9	0.0
W	6,341	73	237	10.0	1,558.0	1,558.0	1,558.2	0.2
X	6,371	80	378	6.3	1,562.3	1,562.3	1,562.4	0.1
Y	6,411	85	441	5.4	1,565.4	1,565.4	1,565.4	0.0
Z	6,791	122	360	6.6	1,566.8	1,566.8	1,567.4	0.6

¹ Feet Above Private Road

² Data Not Available

TABLE 13

FEDERAL EMERGENCY MANAGEMENT AGENCY
SAN DIEGO COUNTY, CA
 AND INCORPORATED AREAS

FLOODWAY DATA

MOOSA CREEK (NORTH BRANCH)

FLOODING SOURCE		FLOODWAY			1-PERCENT-ANNUAL-CHANCE FLOOD WATER-SURFACE ELEVATION (FEET NAVD)			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
Moosa Creek (North Branch) (cont'd)								
AA	7,136	150	310	7.7	1,574.5	1,574.5	1,574.7	0.2
AB	7,166	155	756	3.1	1,577.7	1,577.7	1,578.4	0.7
AC	7,556	235	819	2.9	1,578.1	1,578.1	1,578.9	0.8
AD	7,936	405	455	5.2	1,582.9	1,582.9	1,583.0	0.1
AE	8,406	340	584	4.1	1,595.3	1,595.3	1,595.3	0.0
AF	8,438	306	776	3.1	1,598.1	1,598.1	1,598.1	0.0
AG	8,818	266	379	6.3	1,601.0	1,601.0	1,601.1	0.1
AH	9,398	75	18	1.4	1,612.9	1,612.9	1,613.0	0.1
AI	9,718	21	13	1.9	1,617.4	1,617.4	1,617.4	0.0
AJ	10,268	7	11	2.2	1,622.8	1,622.8	1,622.9	0.1
AK	10,857	201	200	4.8	1,634.7	1,634.7	1,634.7	0.0
AL	10,867	205	372	2.6	1,634.8	1,634.8	1,634.9	0.1
AM	11,367	300	661	3.1	1,639.5	1,639.5	1,640.4	0.9
AN	11,997	80	394	7.0	1,650.1	1,650.1	1,650.8	0.7
AO	12,317	141	531	4.0	1,658.9	1,658.9	1,658.9	0.0
AP	12,352	121	459	4.8	1,659.9	1,659.9	1,659.9	0.0

¹ Feet Above Private Road

TABLE 13

FEDERAL EMERGENCY MANAGEMENT AGENCY
SAN DIEGO COUNTY, CA
 AND INCORPORATED AREAS

FLOODWAY DATA

MOOSA CREEK (NORTH BRANCH)

FLOODING SOURCE		FLOODWAY			1-PERCENT-ANNUAL-CHANCE FLOOD WATER-SURFACE ELEVATION (FEET NAVD)			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
Moosa Creek (South Branch)								
A	555	199	409	5.8	1,611.1	1,611.1	1,611.6	0.5
B	845	220	386	3.4	1,614.1	1,614.1	1,614.6	0.5
C	1,360	112	194	6.8	1,620.6	1,620.6	1,621.0	0.4
D	1,924	265	275	4.8	1,630.0	1,630.0	1,630.1	0.1
E	1,934	280	404	3.3	1,630.4	1,630.4	1,630.6	0.2

¹ Feet Above Confluence with Moosa Creek

TABLE 13

FEDERAL EMERGENCY MANAGEMENT AGENCY
SAN DIEGO COUNTY, CA
 AND INCORPORATED AREAS

FLOODWAY DATA

MOOSA CREEK (SOUTH BRANCH)

FLOODING SOURCE		FLOODWAY			1-PERCENT-ANNUAL-CHANCE FLOOD WATER-SURFACE ELEVATION (FEET NAVD)			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
Murphy Canyon Creek								
A	2,961	73	271	10.7	95.4	95.4	95.4	0.0
B	3,831	42	253	16.0	102.6	102.6	102.6	0.0
C	4,331	43	459	8.5	107.6	107.6	108.4	0.8
D	-- ²	-- ²	-- ²	-- ²	-- ²	-- ²	-- ²	-- ²
E	-- ²	-- ²	-- ²	-- ²	-- ²	-- ²	-- ²	-- ²
F	9,222	77	1,021	2.9	162.5	162.5	162.5	0.0
G	10,936	111	272	9.0	174.0	174.0	174.0	0.0
H	11,376	191	310	7.7	179.0	179.0	179.0	0.0
I	11,674	132	182	3.8	180.8	180.8	180.8	0.0
J	12,064	13	132	18.2	187.2	187.2	187.2	0.0
K	13,546	86	373	4.6	210.2	210.2	210.2	0.0
L	14,992	42	140	12.1	223.8	223.8	223.8	0.0
M	15,262	34	96	10.4	230.5	230.5	230.5	0.0
N	16,388	39	95	10.5	246.3	246.3	246.3	0.0
O	16,719	42	182	5.5	253.1	253.1	253.1	0.0

¹ Feet Above Friars Road

² 1-Percent Annual Chance Flood Contained in Culvert

TABLE 13

FEDERAL EMERGENCY MANAGEMENT AGENCY
SAN DIEGO COUNTY, CA
 AND INCORPORATED AREAS

FLOODWAY DATA

MURPHY CANYON CREEK