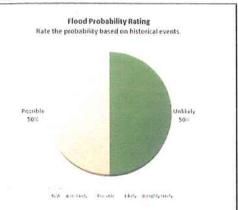
Page 15-7 3/12/2012

Flood

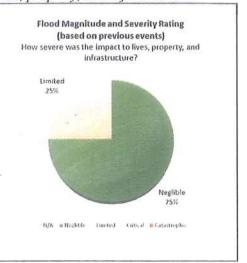
Probability - Rate the probability based on historical events.

| Rating | Description | |
|---------------|--|--|
| N/A | Not Applicable | |
| Unlikely | Extremely rare with no documented history of occurrence or events OR an annual probability less than 0.001. | |
| Possible | Rare occurrences with at least one documented or anecdotal historic event OR an annual probability between 0.01 and 0.001. | |
| Likely | Occasional occurrences with at least two or more documented historic events OR an annual probability that is between 0.1 and 0.01. | |
| Highly Likely | Frequent events with a well-documented history of occurrence OR an annual probability that is greater than 0.1. | |



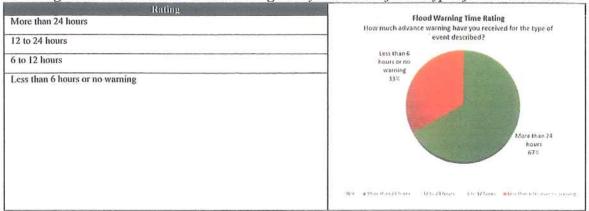
Magnitude and Severity - How severe was the impact to lives, property, and infrastructure?

| Rating | Description |
|--------------|--|
| Negligible | Negligible property damages (less than 5% of critical and non-critical facilities and infrastructure). Injuries or illnesses are treatable with first aid and there are no deaths. Negligible quality of life lost. Shut down of critical facilities for less than 24 hours. |
| Limited | Slight property damages (greater than 5% and less than 25% of critical and non-critical facilities and infrastructure). Injuries or illnesses do not result in permanent disability and there are no deaths. Moderate quality of life lost. Shut down of critical facilities for more than 1 day and less than 1 week. |
| Critical | Moderate property damages (greater than 25% and less than 50% of critical and non-critical facilities and infrastructure). Injuries or illnesses result in permanent disability and at least one death. Shut down of critical facilities for more than 1 week and less than 1 month. |
| Catastrophic | Severe property damages (greater than 50% of critical and non-critical facilities and infrastructure). Injuries or illnesses result in permanent disability and multiple deaths. Shut down of critical facilities for more than 1 month. |

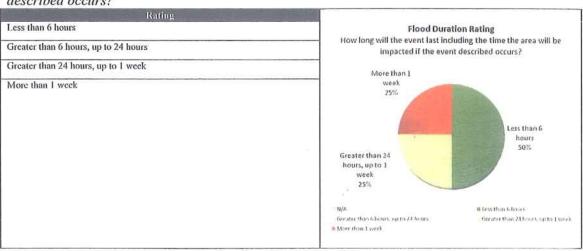


Page 15-8 3/12/2012

Warning Time - How much advance warning have you received for the type of event described?



Duration - How long will the event last including the time the area will be impacted if the event described occurs?

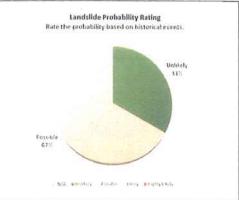


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Landslide

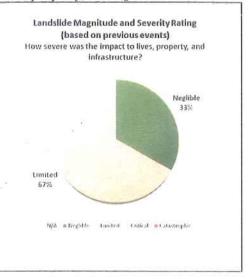
Probability - Rate the probability based on historical events.

| Rating | Description | |
|---------------|--|----------------------------------|
| N/A | Not Applicable | tandslide Rate the probabilit |
| Unlikely | Extremely rare with no documented history of occurrence or events OR an annual probability less than 0.001. | |
| Possible | Rare occurrences with at least one documented or anecdotal historic event OR an annual probability between 0.01 and 0.001. | |
| Likely | Occasional occurrences with at least two or more documented historic events OR an annual probability that is between 0.1 and 0.01. | Foss-ble |
| Highly Likely | Frequent events with a well-documented history of occurrence OR an annual probability that is greater than 0.1. | . NA. 611-MAY |



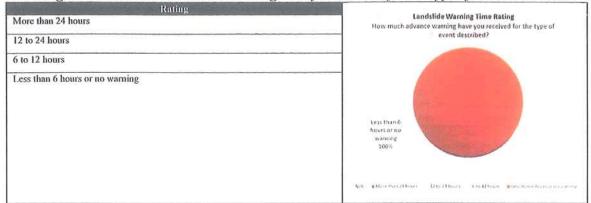
Magnitude and Severity - How severe was the impact to lives, property, and infrastructure?

| Rating | Description | |
|--------------|--|--|
| Negligible | Negligible property damages (less than 5% of critical and non-critical facilities and infrastructure). Injuries or illnesses are treatable with first aid and there are no deaths. Negligible quality of life lost. Shut down of critical facilities for less than 24 hours. | |
| Limited | Slight property damages (greater than 5% and less than 25% of critical and non-critical facilities and infrastructure). Injuries or illnesses do not result in permanent disability and there are no deaths. Moderate quality of life lost. Shut down of critical facilities for more than 1 day and less than 1 week. | |
| Critical | Moderate property damages (greater than 25% and less than 50% of critical and non-critical facilities and infrastructure). Injuries or illnesses result in permanent disability and at least one death. Shut down of critical facilities for more than 1 week and less than 1 month. | |
| Catastrophic | Severe property damages (greater than 50% of critical and non-critical facilities and infrastructure). Injuries or illnesses result in permanent disability and multiple deaths. Shut down of critical facilities for more than 1 month. | |

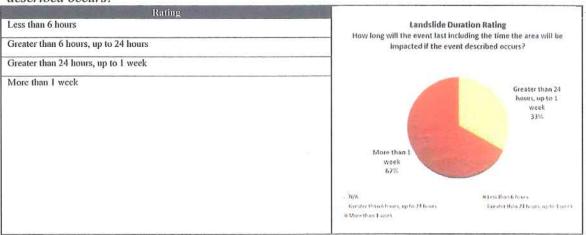


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Warning Time - How much advance warning have you received for the type of event described?



Duration - How long will the event last including the time the area will be impacted if the event described occurs?

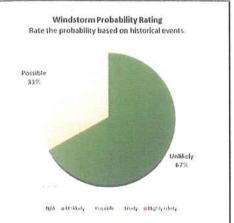


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Severe Windstorm

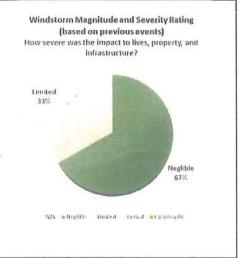
Probability - Rate the probability based on historical events.

| Rating | Description |
|---------------|--|
| N/A | Not Applicable |
| Unlikely | Extremely rare with no documented history of occurrence or events OR an annual probability less than 0.001. |
| Possible | Rare occurrences with at least one documented or anecdotal historic event OR an annual probability between 0.01 and 0.001. |
| Likely | Occasional occurrences with at least two or more documented historic events OR an annual probability that is between 0.1 and 0.01. |
| Highly Likely | Frequent events with a well-documented history of occurrence OR an annual probability that is greater than 0.1. |
| | |



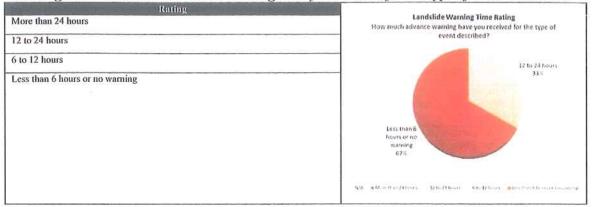
Magnitude and Severity - How severe was the impact to lives, property, and infrastructure?

| Rating | Description |
|--------------|--|
| Negligible | Negligible property damages (less than 5% of critical and non- critical facilities and infrastructure). Injuries or illnesses are treatable with first aid and there are no deaths. Negligible quality of life lost. Shut down of critical facilities for less than 24 hours. |
| Limited | Slight property damages (greater than 5% and less than 25% of critical and non-critical facilities and infrastructure). Injuries or illnesses do not result in permanent disability and there are no deaths. Moderate quality of life lost. Shut down of critical facilities for more than 1 day and less than 1 week. |
| Critical | Moderate property damages (greater than 25% and less than 50% of critical and non-critical facilities and infrastructure). Injuries or illnesses result in permanent disability and at least one death. Shut down of critical facilities for more than 1 week and less than 1 month. |
| Catastrophic | Severe property damages (greater than 50% of critical and non- critical facilities and infrastructure). Injuries or illnesses result in permanent disability and multiple deaths. Shut down of critical facilities for more than 1 month. |

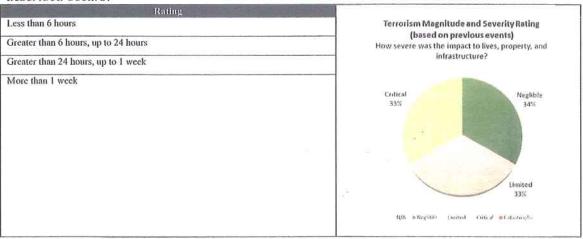


Version 2.2 Page 15-12 Revision Date: 3/12/2012

Warning Time - How much advance warning have you received for the type of event described?



Duration - How long will the event last including the time the area will be impacted if the event described occurs?

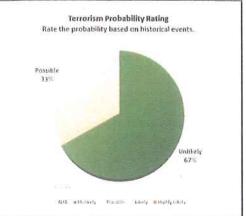


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Terrorism

Probability - Rate the probability based on historical events.

| | Description | Rating |
|--|--|---------------|
| Rateth | Not Applicable | N/A |
| Rateth | Extremely rare with no documented history of occurrence or events OR an annual probability less than 0.001. | Unlikely |
| ************************************** | Rare occurrences with at least one documented or anecdotal historic event OR an annual probability between 0.01 and 0.001. | Possible |
| | Occasional occurrences with at least two or more documented historic events OR an annual probability that is between 0.1 and 0.01. | Likely |
| | Frequent events with a well-documented history of occurrence OR an annual probability that is greater than 0.1. | Highly Likely |
| | | |
| CNO | | |

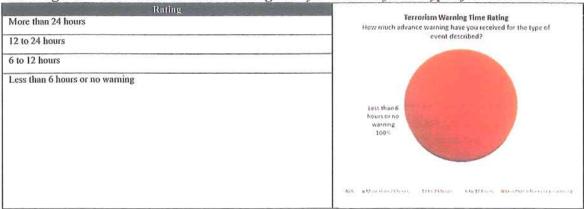


Magnitude and Severity - How severe would be the impact to lives, property, and infrastructure?

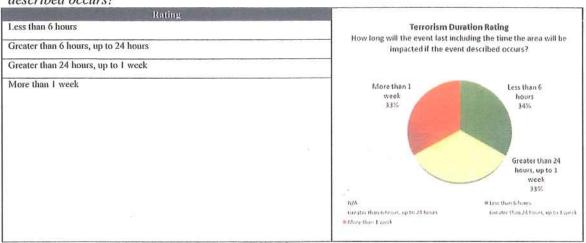
| Rating | Description | |
|--------------|--|---|
| Negligible | Negligible property damages (less than 5% of critical and non- critical facilities and infrastructure), Injuries or illnesses are treatable with first aid and there are no deaths. Negligible quality of life lost. Shut down of critical facilities for less than 24 hours. | Terrorism Magnitude and Severity Rating (estimate) How severe would be the impact to lives, property, and infrastructure? |
| Limited | Slight property damages (greater than 5% and less than 25% of critical and non-critical facilities and infrastructure). Injuries or illnesses do not result in permanent disability and there are no deaths. Moderate quality of life lost. Shut down of critical facilities for more than 1 day and less than 1 week. | Critical . Neglible 34% |
| Critical | Moderate property damages (greater than 25% and less than 50% of critical and non-critical facilities and infrastructure). Injuries or illnesses result in permanent disability and at least one death. Shut down of critical facilities for more than 1 week and less than 1 month. | |
| Catastrophic | Severe property damages (greater than 50% of critical and non- critical facilities and infrastructure). Injuries or illnesses result in permanent disability and multiple deaths. Shut down of critical facilities for more than 1 month. | Limited 33% N/A # Noghble Limited Critical # Catastrophic |

Version 2.2 Page 15-14 Revision Date: 3/12/2012

Warning Time - How much advance warning have you received for the type of event described?



Duration - How long will the event last including the time the area will be impacted if the event described occurs?



Version 2.2

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ANNEX E: PLANNING AND PUBLIC INVOLVEMENT SECTION 16.

Planning

Representatives from each city within the Las Virgenes-Malibu Council of Governments regularly meet to discuss mitigation efforts and plan future activities. As members of Disaster Management Area B, each city participates in quarterly planning meetings as well as post-DMA meetings with LVMCOG member cities. The following minutes provide a sample of the LVMCOG emergency management planning topics discussed at the DMA meetings. representatives also meet separately to discuss issues specific to the LVMCOG.

SAMPLE

Disaster Management Area B Meeting Minutes

CITY OF MALIBU

| MINUTES JU | L 14, 2011 11:48AM TO 12:00 PM ZUMA ROOM |
|-----------------------|---|
| MEETING CALLED BY | Standing Area B Local Hazard Mitigation Plan (LHMP) Meeting |
| TYPE OF MEETING | Quarterly Meeting |
| HOST / FACILITATOR | Debbie Pedrazzoli in Kelvin Tainatongo (Chair) absence |
| NOTE TAKER | Debbie Pedrazzoli |
| ATTENDEES | CITIES PRESENT: Anne Ambrose – City of Palmdale, Director of Public Safety and Community Relations Brad Davis – City of Malibu, Emergency Preparedness Coordinator Debbie Larson – City of Calabasas, Public Safety Coordinator Donna Nuzzi – City of Santa Clarita, Emergency Services Supervisor Jim Jordan – City of Calabasas, Director of Public Safety & Emergency Preparedness Kerry Kallman – City of Westlake Village, Administrative Analyst DMAC PRESENT: Deb Pedrazzoli – Area B Disaster Management Area Coordinator (DMAC) AGENCY PARTNERS PRESENT: None CITIES NOT PRESENT: Deanna Graybill, City of Hidden Hills, Deputy City Clerk Kelvin Tainatongo, City of Lancaster, Assistant to the City Manager Louis Celaya – City of Agoura Hills, Assistant to the City Manager |

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Agenda topics

| INTRODUCTIONS DEB P | | |
|--|--------------------|----------|
| The Meeting was called to order at 11:48am. | | |
| DISCUSSION Introductions were not necessary. | | |
| CONCLUSIONS N/A | | |
| ACTION ITEMS | PERSON RESPONSIBLE | DEADLINE |
| N/A | N/A | N/A |

TOPIC/DISCUSSION DEB P Overview of the FEMA's "Local Mitigation Plan Review Crosswalk": Deb P. began reviewing with those in attendance the FEMA's Local Mitigation Plan Review Crosswalk page A-5 covering the Planning Process which included the following Documentation of Planning Process Requirement 201.6(b) Public comment Neighboring communities/agencies involvement Review/incorporation of existing documents Requirement 201.6(c)(1) Document how it was prepared, who was involved and how the public was involved. Elements Document who was involved in the current planning process. Document how the public was involved. DISCUSSION Document the opportunities for neighboring communities, agencies, businesses, academia, nonprofits, and other interested parties to be involved in the planning process. Document the review and incorporation of existing plans, studies, reports, and technical information. Document a narrative description of the process followed to prepare the plan. Document how the planning team reviewed and analyzed each section of the plan whether it was revised or not. Handouts. Copy of FEMA's Local Mitigation Plan Review Crosswalk dated July 1, 2008 page A-5. Next month's topic Continuation of FEMA's Local Mitigation Plan Review Crosswalk dated July 1, 2008 starting on page A-6 Risk Assessment - Identifying Hazards and Profiling Hazards. CONCLUSIONS N/A PERSON RESPONSIBLE DEADLINE ACTION ITEMS N/A N/A N/A

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ROUNDTABLE ALL

| DISCUSSION | Discussion ensued by all in attendance regarding public involvement (ex. newspaper ad, websites, and community meetings). City of Santa Clarita posts a survey on their website for public comment. Donna N. will send out a copy of the survey. Anne A. City of Palmdale requested that Deb P. send out the link to the Crosswalk. | | |
|---------------------|--|--------------------|----------------------|
| CONCLUSIONS | N/A | | |
| ACTION ITEMS | | PERSON RESPONSIBLE | DEADLINE |
| | City of Santa Clarita on-lined out link to Crosswalk. | neDonna N. Deb P. | 11/10/11 11/10/11 |
| OBSERVERS | N/A | | |
| RESOURCE PERSONS | N/A | | |
| SPECIAL NOTES | 12:00 PM MEETING ADJOURNED. Next Area B LHMP Meeting – Thursday, Nov 10, 2011 promptly following (approximately 12 Noon) the Area B Board Meeting at the City of Hidden Hills. Note meeting had to be moved from Oct 13 to Nov 10 due to the Area B Meeting and EOC Tour at the Getty Center on Oct 13. | | |

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Public Participation and Involvement

The public participated in the original 2005 Multi-Jurisdictional Hazard Mitigation Plan (HMP) and this update. Public participation was enabled through a variety of means that included:

- An online Disaster Preparedness Risk Survey
- Public Announcements
- City Council Meetings

Disaster Preparedness Risk Survey

A survey was published to allow members of the public to provide their input on local area hazards, preparedness efforts, suggestions for mitigation and improvement, and the historic consequences of disasters. The results of the Survey are provided in <u>Annex C</u>.

The survey was distributed and publicized via city websites, publically available forms, newspapers (link to the survey), and during community training events. The figure below provides sample of an announcement that appeared in the Acorn newspaper.

Survey underway

2012-02-16 / Community

The Las Virgenes-Malibu Council of Governments is conducting a survey to determine the level of disaster preparedness in the community and, in turn, identify potential local area risks. The data provided will educate residents and help them plan better for potential disasters in Calabasas and nearby communities. The survey is administered and maintained by MLC and Associates, Inc. A link to the survey is at http:// www.cityofcalabasas.com/disastersurvey.html. Questions can be emailed to MLC@ MLCandassociates.com.

Figure 71: Acorn Newspaper Survey Announcement

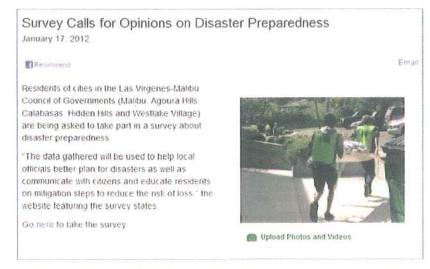


Figure 72: Agoura Hills and Malibu Patch Survey Announcement

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Public Announcements and Information

In addition to the Disaster Preparedness Risk Survey, each city distributes Emergency and Disaster Mitigation information via their websites and city-operated television channels. Copies of the Multi-Jurisdictional Hazard Mitigation Plan are made available on each City's website. The public is invited to download and review the plans and provide their comments. Furthermore, the public is invited to participate in mitigation and training events (as applicable) during the year.

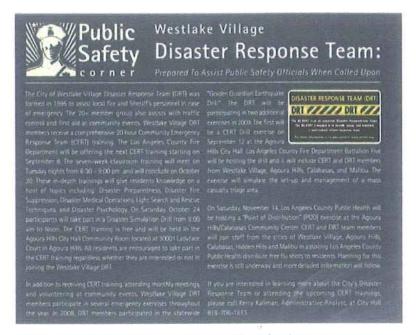


Figure 73: Westlake Village DRT and Exercise Announcement

City Council Meetings

Each City Council reviewed and adopted the original 2005 Multi-Jurisdictional Hazard Mitigation Plan and this update. During City Council meetings, members of the public were invited to provide their feedback and comments regarding the HMP. Likewise, the revised HMP was presented at City Council meetings for review and feedback.

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SECTION 17. ANNEX F: FLOOD INSURANCE RATE MAPS

This section provides selected Flood Insurance Rate Maps (FIRM) for the cities within the Las Virgenes-Malibu Council of Governments. This information is provided for planning purposes and is not a predictor of future events. The following FIRM notes apply to the maps included.

NOTES TO USERS

This map is for use in administering the National Flood Insurance Program. It does not necessarily identify all areas subject to flooding, particularly from local drainage sources of small size. The community map repository should be consulted for possible updated or additional flood hazard information.

To obtain more detailed information in areas where Base Flood elevations (BFEs) and/or floodways have been determined, users are encouraged to consult the Flood Profiles and Floodway Data and/or Summary of Stillwater Elevations tables contained within the Flood Insurance Study (FIS) report that accompanies this FIRM. Users should be aware that BFEs shown on the FIRM represent rounded whole-foot elevations. These BFEs are intended for flood insurance rating purposes only and should not be used as the sole source of flood elevation information. Accordingly, flood elevation data presented in the FIS report should be utilized in conjunction with the FIRM for purposes of construction and/or floodplain management.

Coastal Base Flood Elevations shown on this map apply on landward of 0.0' North American Vertical Datum of 1988 (NAVD 88). Users of this FIRM should be aware that coastal flood elevations are also provided in the Summary of Stillwater Elevations table in the Flood Insurance Study report for this jurisdiction. Elevations shown in the Summary of Stillwater Elevations table should be used for construction and/or floodplain management purposes when they are higher than the elevations shown on this FIRM.

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

Certain areas not in Special Flood Hazard Areas may be protected by **flood control structures**. Refer to Section 2.4 "Flood Protection Measures" of the Flood Insurance Study report for information on flood control structures for this jurisdiction.

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

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

NGS Information Services NOAA, N/NGS12 National Geodetic Survey SSMC-3, #9202 1315 East-West Highway Silver Spring, MD 20910-3282

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To obtain current elevation description, and/or location information for bench marks shown on this map, please contact the Information Services Branch of the National Geodetic Survey at (301) 713-3242, or visit its website at http://www.ngs.noaa.gov/.

Base map information shown on this FIRM was derived from U.S. Geological Survey Digital Orthophoto Quadrangles produced at a scale of 1:12,000 from photography dated 1994 or later and from National Geospatial Intelligence Agency imagery produced at a scale of 1:4,000 from photography dated 2003 or later.

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

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

Pease refer to the separately printed Map Index for an overview map of the county showing the layout of map panels; community map repository addresses; and a Listing of Communities table containing National Flood Insurance Program dates for each community as well as a listing of the panels on which each community is located.

Contact the **FEMA Map Service Center** at 1-800-358-9616 for information on available products associated with this FIRM. Available products may include previously issued Letters of Map Change, *a Flood insurance Study report*, and/or digital versions of this map. The FEMA Map Service Center may also be reached by Fax at 1-800-358-9620 and its website at http://www.msc.fema.gov/.

If you have questions about this map or questions concerning the National Flood Insurance Program in general, please call 1-877-FEMA MAP (1-877-336-2627) or visit the FEMA website at http://www.fema.gov/.

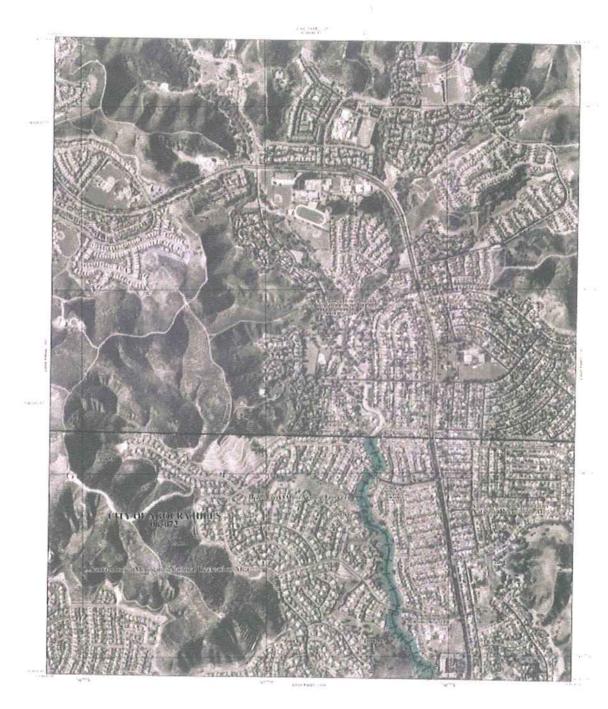
| | LEGEND |
|---|---|
| ME | SPECIAL FLOOD HAZARD AREAS (SEHAS) SUBJECT TO INUNOATION BY THE 1% ANNUAL CHANCE FLOOD |
| that has a Flood Hazar of Special | must change flood (160 year flood), also known as the base flood, is the flood. The change of boing aqualet or exceeded in any given year. The Special of Area is the care subject to Rouding by the IVs armed themer flood. Area is the care subject to Rouding by the IVs armed themer flood. Area flood theraid exclude Jones A. Alf., My, MD, Alf., Alf., y. V and VE. The flate on its the water endage electrical of the MS armed themse flood. |
| ZONE A | No Base Flood Elevations data/mined |
| 3A 3HOS | Base Flood Devotions determined |
| HA 390X | fixed depths of 1 to 3 feet (usually areas of puriding), these fixed Develops determined. |
| ZONE AD | fixed depths of 1 to 3 feet (usually shies flow on stoping toram), avoiding depths determined. For areas of allowed fin flooding, velocities also determined. |
| PW 20102 | Special Hand Hazard Area formally grelated from the 1% annual thince front by a fixed curried system but was stokesertly deconflict. Zone AN indicates that the finner find control system is being restored to provide protection from the 1% annual chance or greater floor. |
| ENG THOS | Area to be protected from the annual chance food by a Federal food protection system under construction, ou have Food Deutston determined. |
| ZONEV | Coastal food zone with velocity hazard (wave action); no Base Flood Bevations determined. |
| ZONE VE | Coastal flood zone with velocity hazard (wave action), Base Flood Devisions determined |
| 12.2228 | FLOODWAY AREAS IN ZONE AE |
| kept from of | y is the channel of a stream plus any adjacent floodplain press that must be exceptedment so that the 1% annual chemic flood can be carried without increases in flood fielights. |
| 1888 | OTHER FLOOD AREAS |
| ZONEX | Areas of 0.3% around choice flood; ereas of 1% around choice flood with average digiths of lins from 1 floot or with phanalige areas less flow 1 square mile; and areas protested by loves from 1% around chance flood. |
| | OTHER AREAS |
| ZONE X | Areas determined to be outside the 0.3% arrival sharce floodplain |
| ZONE D | Areas in which food hazards are undetermined, but possible |
| <i>E</i> | COASTAL BARRIER RESOURCES SYSTEM (CBRS) AREAS |
| [22.23] | OTHERWISE PROTECTED AREAS (OPAs) |

LECEND

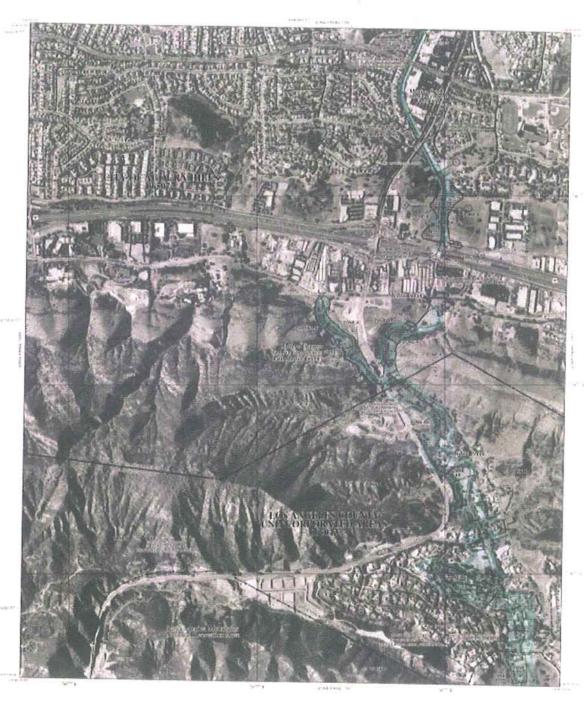




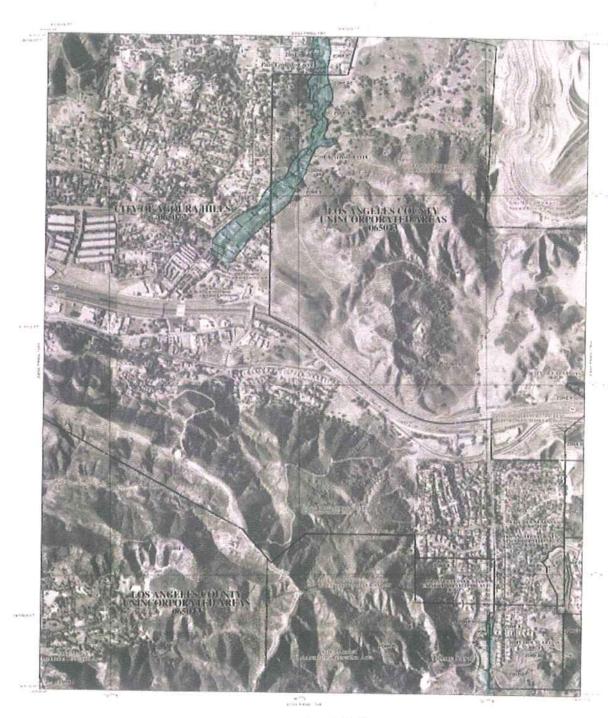
Map 52: Agoura Hills and Westlake Village FIRM Panel 1241



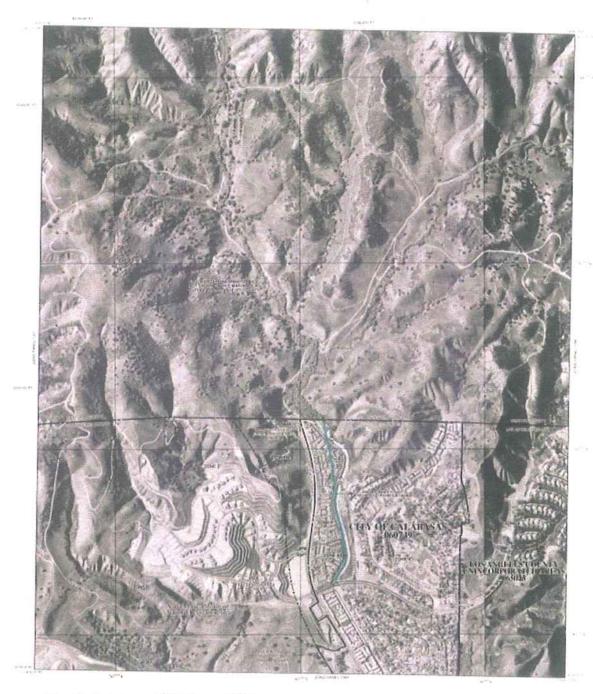
Map 53: Agoura Hills FIRM Panel 1242



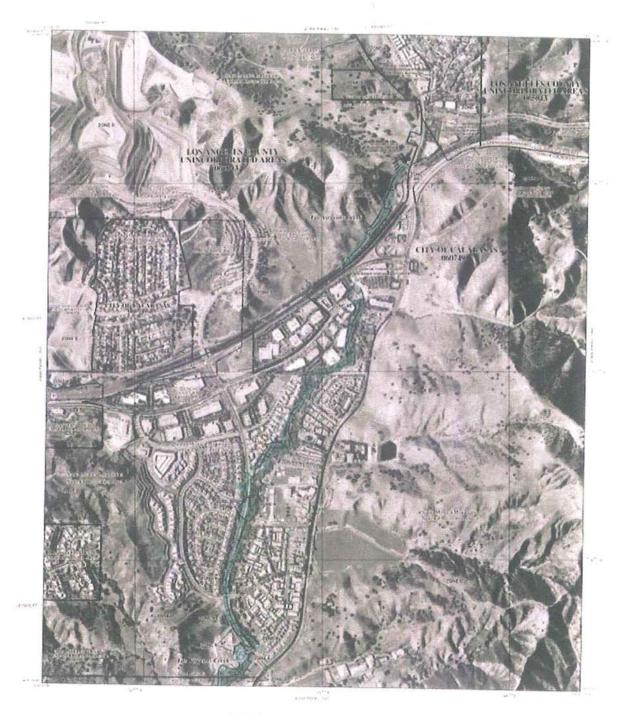
Map 54: Agoura Hills FIRM Panel 1244



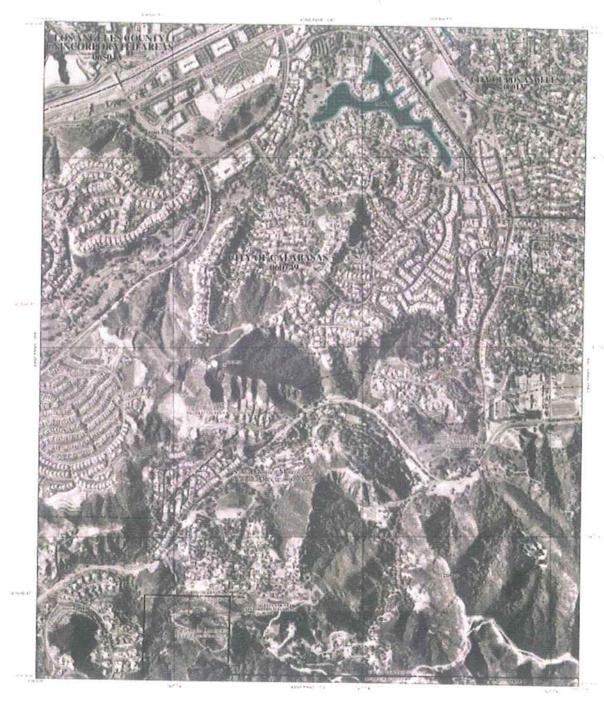
Map 55: Agoura Hills and Calabasas FIRM Panel 1263



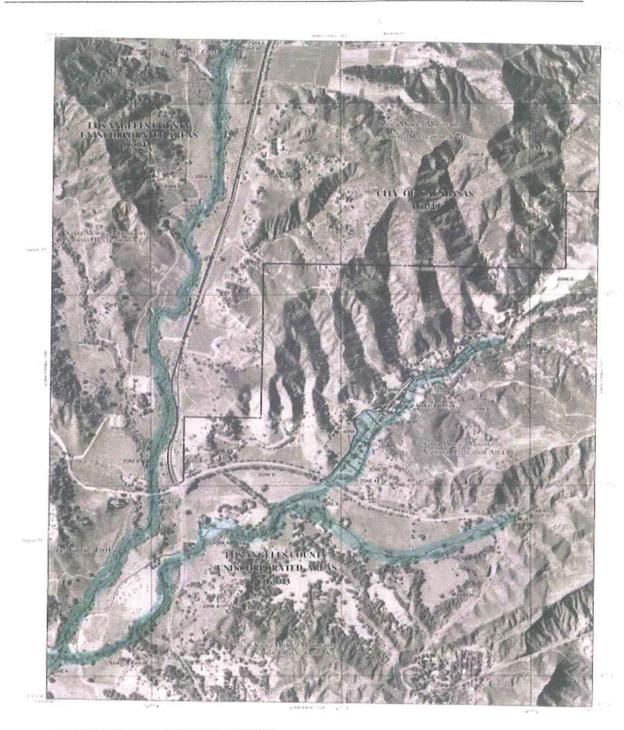
Map 56: Calabasas FIRM Panel 1262



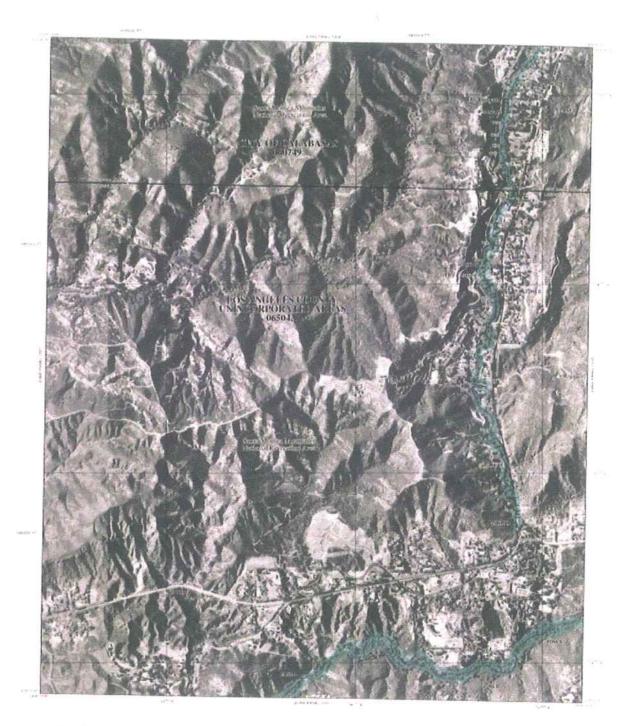
Map 57: Calabasas FIRM Panel 1264



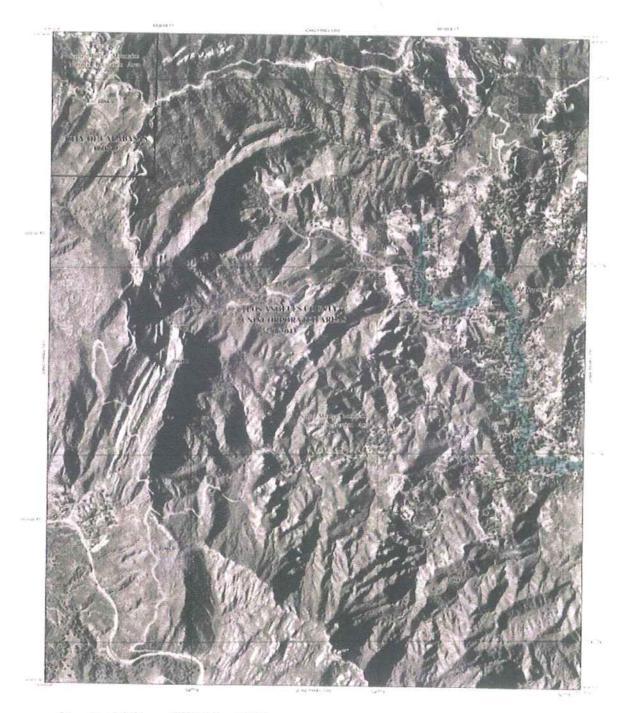
Map 58: Calabasas FIRM Panel 1269



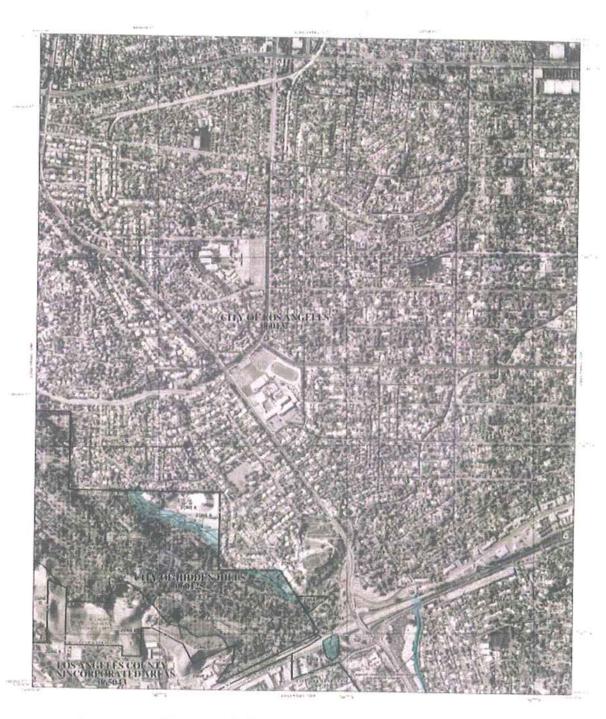
Map 59: Calabasas FIRM Panel 1527



Map 60: Calabasas FIRM Panel 1531

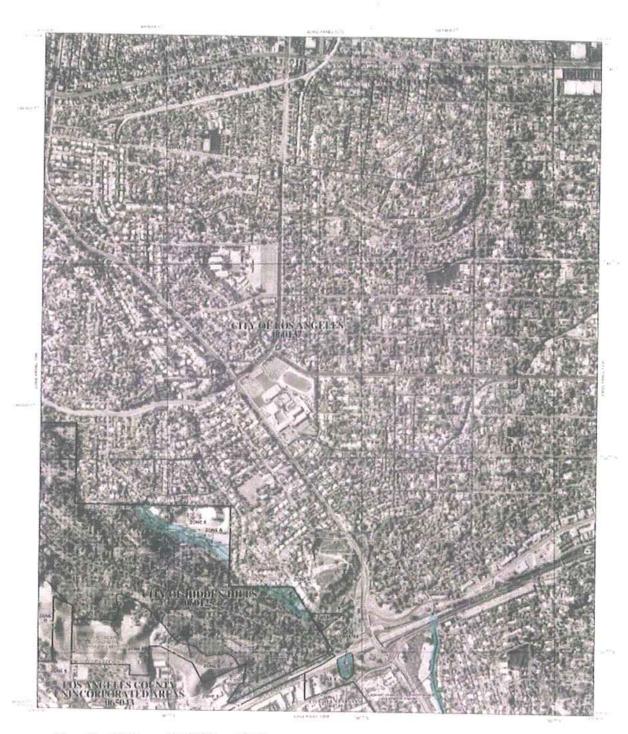


Map 61: Calabasas FIRM Panel 1532



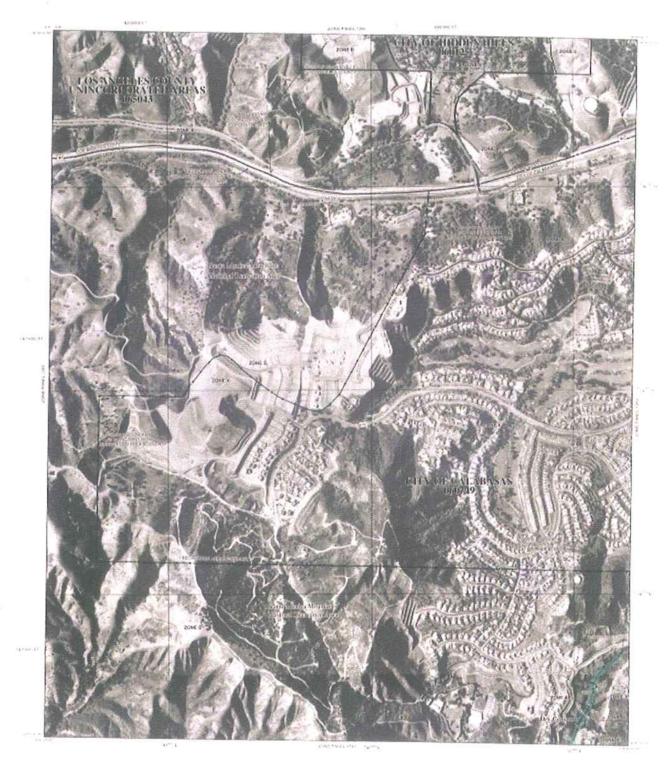
Map 62: Calabasas FIRM Panel 1567

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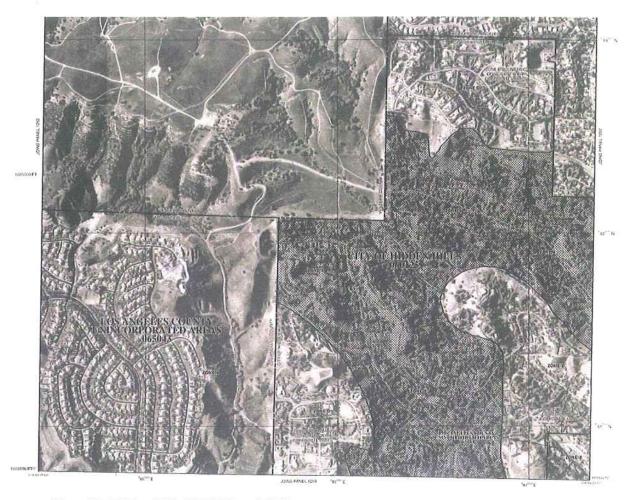


Map 63: Calabasas FIRM Panel 1267

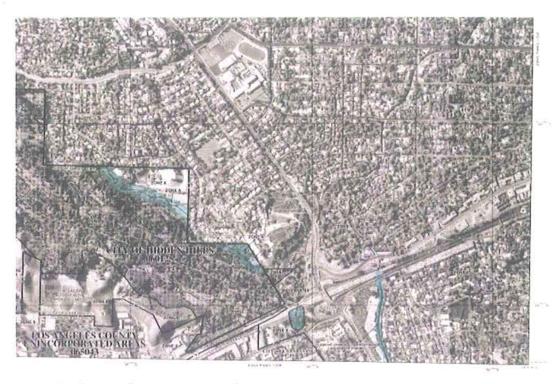
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Map 64: Calabasas FIRM Panel 1268



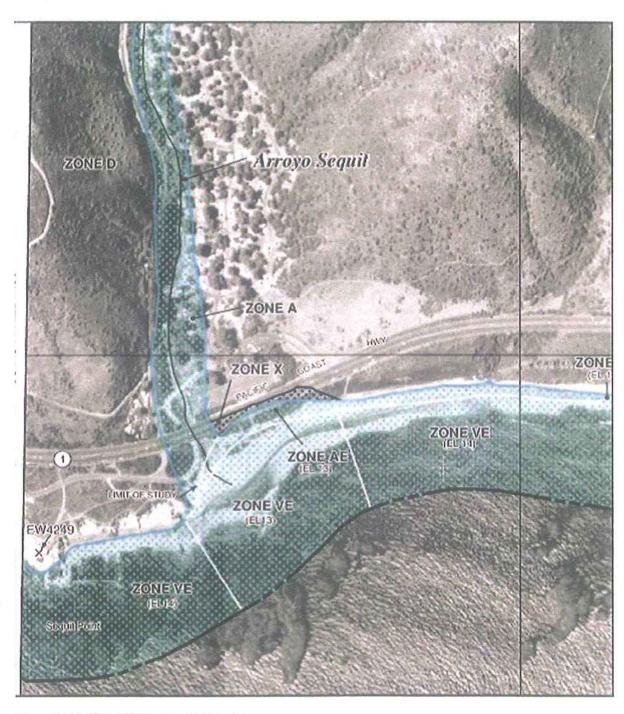
Map 65: Hidden Hills FIRM Panel 1266



Map 66: Hidden Hills FIRM Panel 1267

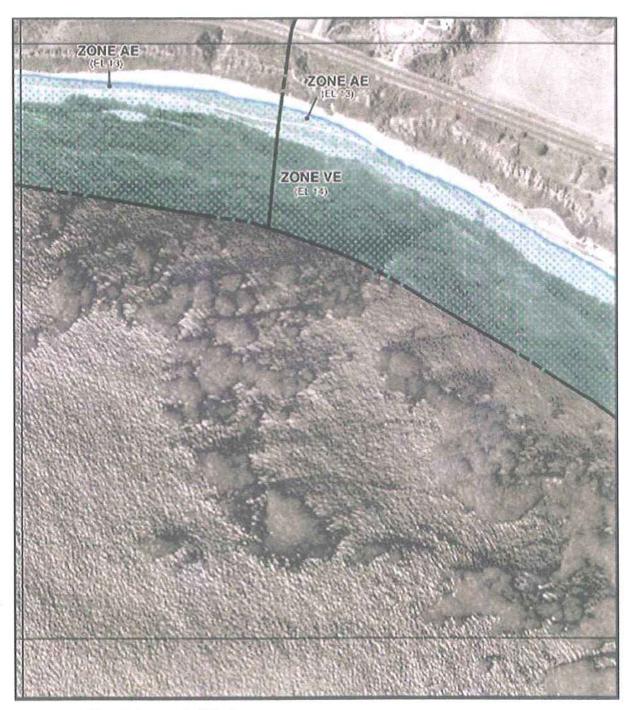


Map 67: Hidden Hills FIRM Panel 1268



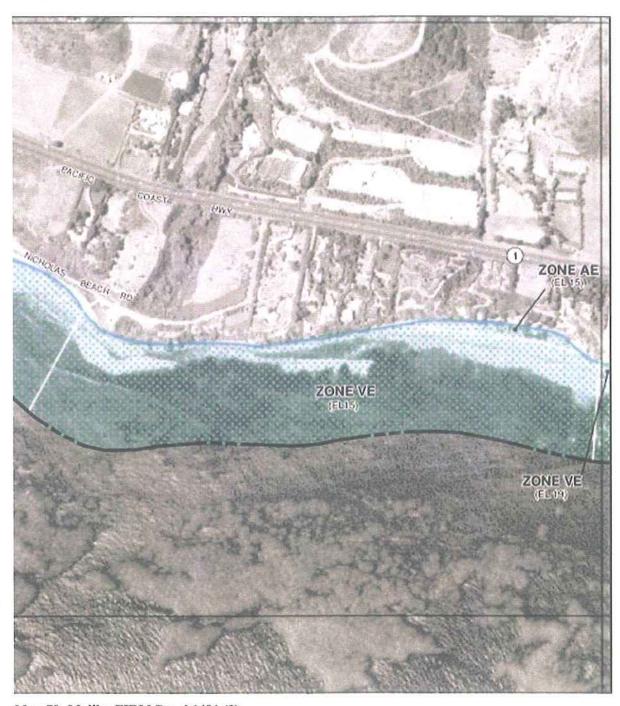
Map 68: Malibu FIRM Panel 1491 (1)

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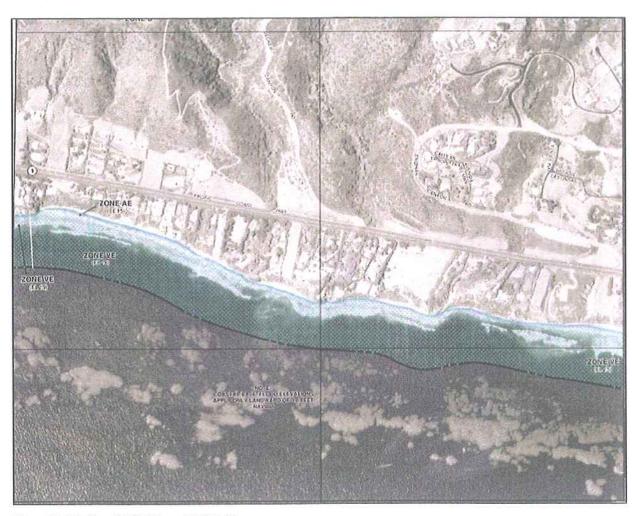


Map 69: Malibu FIRM Panel 1491 (2)

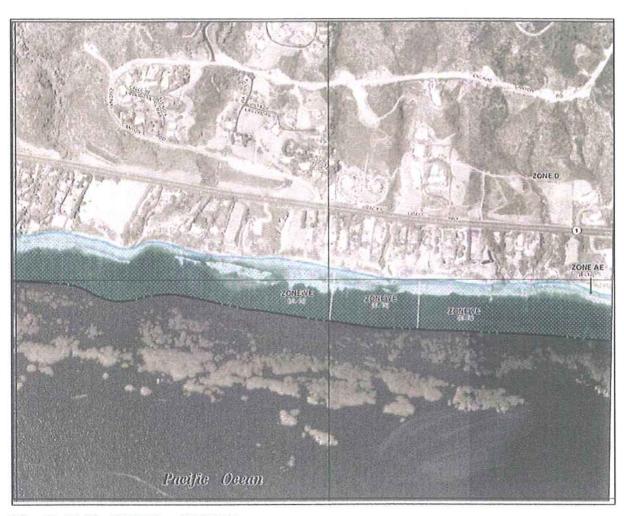
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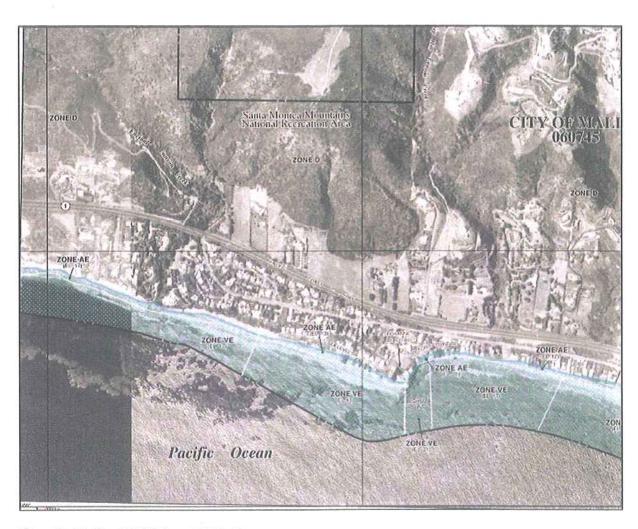
Map 70: Malibu FIRM Panel 1491 (3)



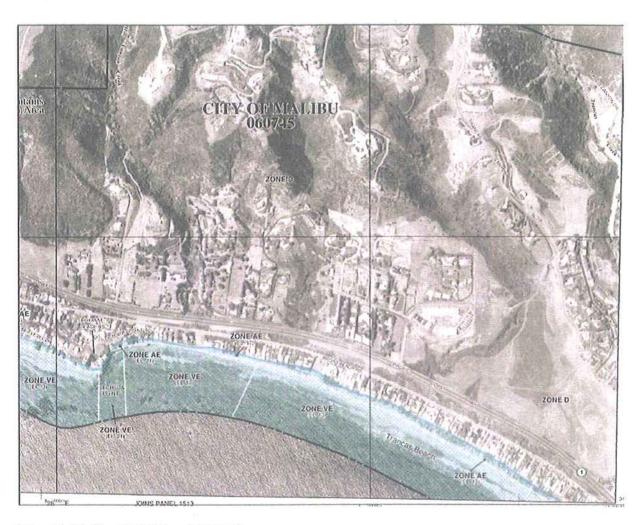
Map 71: Malibu FIRM Panel 1492 (1)



Map 72: Malibu FIRM Panel 1492 (2)

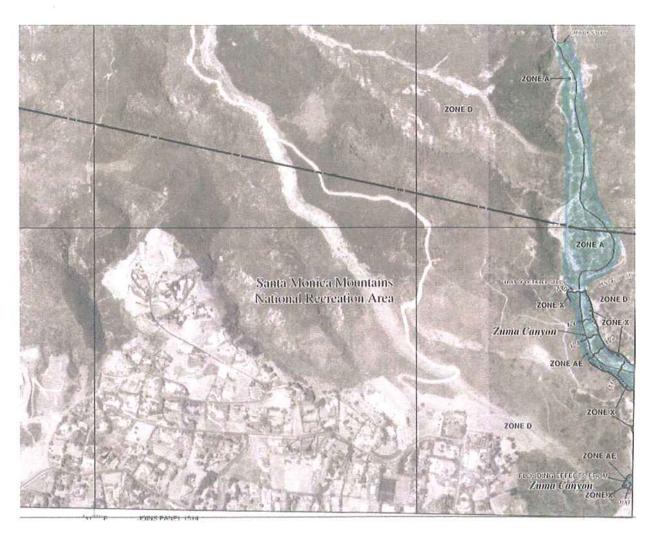


Map 73: Malibu FIRM Panel 1511 (1)

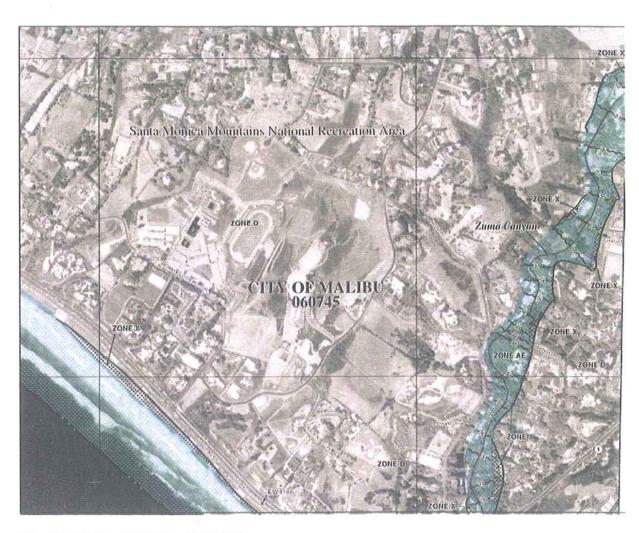


Map 74: Malibu FIRM Panel 1511 (2)

Revision Date:

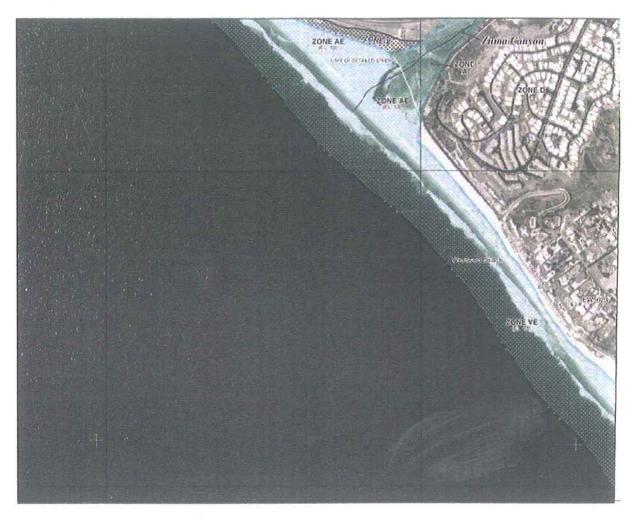


Map 75: Malibu FIRM Panel 1512



Map 76: Malibu FIRM Panel 1514 (1)

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Map 77: Malibu FIRM Panel 1514 (2)



Map 78: Malibu FIRM Panel 1514 (3)