



Flood Control District of Maricopa County, Arizona Cooperating Technical Partners Mapping Activity Statement

Mapping Activity Statement No. 2 – Digital Flood Insurance Rate Map (DFIRM) Production and Flood Data Development

In accordance with the Cooperating Technical Partners (CTP) Partnership Agreement dated September 12, 2001, between the Flood Control District of Maricopa County, Arizona (FCDMC), and the Federal Emergency Management Agency (FEMA), Mapping Activity Statement No. 2 is as follows:

1. Objective and Scope:

The objective of this Flood Map Project is to use the existing floodplain and floodway information and develop a new or updated Digital Flood Insurance Rate Map (DFIRM) and Flood Insurance Study (FIS) report for Maricopa County, Arizona and Incorporated Areas. The DFIRM panels, FIS report and associated information shall be produced in the FEMA Countywide Format, and shall be on the North American Vertical Datum of 1988. In addition to following the standard DFIRM specifications, the FCDMC will, where possible, follow the Enhanced DFIRM specifications that are currently being developed by FEMA.

This Flood Map Project shall be completed by the following Mapping Partners:

- FCDMC; and
- Michael Baker Jr., Inc. the FEMA Flood Map Production Coordination Contractor (MCC).

The activities for this Flood Map Project, including required Quality Assurance/Quality Control (QA/QC) reviews, and the Mapping Partners that will complete them are summarized in the table below. In the table below, the FCDMC is identified as "CTP." All activities that are to be accomplished by the FCDMC or contractors to the FCDMC, including those that may be selected after the project startup, are included in the "CTP" column. This Flood Map Project is not being completed as part of a separate FEMA-contracted flood study; therefore, FEMA has not assigned any mapping activities to a FEMA Study Contractor (SC).

The sections of this Mapping Activity Statement that follow the table below describe the specific mapping activities associated with this Flood Map Project. Each activity description identifies the responsible Mapping Partner(s), the FEMA standards that must be met, and resultant map component.

Mapping Activity	CTP	MCC
Activity 1 – Base Map Acquisition and Preparation	X	
Activity 2 – DFIRM Production	X	
Activity 3 – Independent QA/QC Review of DFIRM		X
Activity 4 – Application of DFIRM Graphic and Database Specifications	X	X
Activity 5 – Preliminary DFIRM and FIS Report Distribution		X
Activity 6 – Post-Preliminary Processing	X	X

Activity 1 - Base Map Acquisition and Preparation

Responsible Mapping Partner: FCDMC

Scope: Activity 1 consists of obtaining the digital base map data for this Flood Map Project. Maricopa County's digital orthophotography will be used for the base mapping. The FCDMC shall:

- Obtain digital files (raster or vector) of the base map;
- Secure necessary permissions from the map source to allow FEMA's use and distribution of hardcopy and digital map products using the digital base map, free of charge;
- Certify that the digital data meet the minimum standards and specifications that FEMA requires for DFIRM production; and
- Populate the DFIRM database for base map features and applicable data.

Standards: All work under Activity 1 shall be performed in accordance with the standards specified in Section 5 of this Mapping Activity Statement.

Products: In accordance with the TSDN format described in Appendix M of *Guidelines and Specifications for Flood Hazard Mapping Partners*, the FCDMC shall make the following products available to FEMA.

- Written certification that the digital data meet the minimum FEMA standards and specifications; and
- Documentation that FEMA can use the digital base map.

Activity 2 - DFIRM Production

Responsible Mapping Partner: FCDMC and MCC

Scope: The FCDMC and MCC using the existing available floodplain and floodway information shall update the effective FIRM panel format in conformance with FEMA's DFIRM specifications. Where possible the FCDMC will provide as much information as possible using the Enhanced DFIRM specifications. The FCDMC shall use the base map acquired under Activity 1 for the conversion. The FCDMC and MCC also shall incorporate Letters of Map Change (LOMCs) issued by FEMA since the current effective FIRM for each affected community. The FCDMC will convert the existing floodplain elevation information from the current elevation datum of NGVD29 to NAVD88, using methodologies specified by FEMA. The Flood Profiles and Floodway Data Table information shall also be converted to NAVD88. The FCDMC will work on a pilot area first to make sure that the development of the DFIRM information is being done correctly. After the pilot area is completed, the FCDMC will develop a plan of action for completing the project. The plan of action will address how the project will be phased, and the development of the timeline for completing this project. With input from FEMA and the MCC the FCDMC shall strive to ensure that the relationship the roads and floodplains are accurate. The FCDMC has no information on the 0.2 percent event, so this information will have to be supplied by FEMA and the MCC. The FCDMC may need to obtain other existing information from FEMA and the MCC in order to complete overall project.

Standards: All work under Activity 2 shall be performed in accordance with the standards specified in Section 5 of this Mapping Activity Statement.

Products: In accordance with the TSDN format described in Appendix M of *Guidelines and Specifications for Flood Hazard Mapping Partners*, the FCDMC and MCC shall make the following products available to FEMA:

- Digital work maps showing 1-percent-annual-chance floodplain boundary delineations (where the information is currently available the 0.2 percent event shall also be shown), cross sections, BFEs, flood insurance risk zone designation labels, and all applicable base map features;
- DFIRM mapping files, prepared in accordance with the requirements in *Guidelines and Specifications for Flood Hazard Mapping Partners*;
- Metadata files describing the DFIRM data, including all required information shown in *Guidelines and Specifications for Flood Hazard Mapping Partners*;
- Complete set of plots of DFIRM panels showing all detailed flood hazard information at a suitable scale;
- A Summary Report that describes and provides the results of all automated or manual QA/QC review steps taken during the preparation of the DFIRM.

Activity 3 - Independent QA/QC Review of DFIRM

Responsible Mapping Partner: MCC

Scope: The MCC shall review the DFIRM panels submitted by FCDMC under Activity 2 of this Mapping Activity Statement to ensure that the unrevised flood hazard information taken from the effective FIRM panels is accurately represented on the DFIRM panels. This work shall include, at a minimum, ensuring the following:

- Unrevised flood hazard information shown on the effective FIRM panels is completely and accurately captured in the digital files.
- The floodway widths agree with the widths shown in the Floodway Data Table(s) and the results of the hydraulic modeling within a tolerance of 5 percent.
- The distances between cross sections agree with the distances shown in the Floodway Data Table(s) and the results of the hydraulic modeling within a tolerance of 5 percent.
- Road and floodplain relationships are maintained for all unrevised areas.
- Flood Profiles are in NAVD88.
- Floodway Data Tables are in NAVD88.
- Placement of the BFEs (in NAVD88) on the FIRM panel.
- DFIRM mapping files are in one of the GIS file and database formats specified in FEMA's DFIRM Specifications and conform to those specifications for content and attribution.
- Metadata files describing the DFIRM data include the required information and follow the examples shown in FEMA's DFIRM Specifications.

Standards: All work under Activity 3 shall be performed in accordance with the standards specified in Section 5 of this Mapping Activity Statement.

Products: In accordance with the TSDN format described in Appendix M of *Guidelines and Specifications for Flood Hazard Mapping Partners*, the MCC shall make the following products available to FEMA.

- A Summary Report that describes the findings of the independent QA/QC review, noting any deficiencies and providing recommendations to resolve them or agreeing with the mapping results; and
- Annotated DFIRM panels with all questions and/or concerns indicated, if necessary.

Activity 4 – Application of DFIRM Graphic and Database Specifications

Responsible Mapping Partner: FCDMC and MCC

Scope: The FCDMC and the MCC shall apply the final FEMA DFIRM graphic and database specifications to the DFIRM mapping files. This work shall include adding all required annotation, line patterns, area shading, and map collar information (e.g., map borders, title blocks, legends, notes to user).

Standards: All work under Activity 4 shall be performed in accordance with the standards specified in Section 5 of this Mapping Activity Statement.

Products: In accordance with the TSDN format described in Appendix M of *Guidelines and Specifications for Flood Hazard Mapping Partners*, the MCC shall make the following products available to FEMA:

- Digital work maps showing 1-percent-annual-chance floodplain boundary delineations (where the information is currently available the 0.2 percent event shall also be shown), cross sections, BFEs, flood insurance risk zone designation labels, and all applicable base map features;
- DFIRM mapping files, prepared in accordance with the requirements in *Guidelines and Specifications for Flood Hazard Mapping Partners*;
- Metadata files describing the DFIRM data, including all required information shown in *Guidelines and Specifications for Flood Hazard Mapping Partners*;
- Complete set of plots of DFIRM panels showing all detailed flood hazard information at a suitable scale; and
- A Summary Report that describes and provides the results of all automated or manual QA/QC review steps taken during the preparation of the DFIRM.

Activity 5 – Preliminary DFIRM and FIS Report Distribution

Responsible Mapping Partner: MCC

Scope: Activity 5 consists of the final preparation, review, and distribution of the Preliminary copies of the DFIRM and FIS report for community and public review and comment. The activities to be performed are summarized below.

FIS Report Preparation: The MCC shall prepare an updated FIS report for Maricopa County, Arizona and Incorporated Areas.

Final QA/QC Review of Preliminary DFIRM and FIS Report: The MCC shall perform a final QA/QC review of the Preliminary DFIRM and FIS report, including all data tables, Flood Profiles, and other components of the FIS report. The QA/QC review procedures shall be consistent with the *Guidelines and Specifications for Flood Hazard Mapping Partners*.

Discrepancy Resolution: The MCC shall work with the FCDMC to resolve discrepancies identified during the final QA/QC review.

Distribution of Preliminary DFIRM and FIS Report: The MCC shall distribute the Preliminary copies of the DFIRM and FIS report to community officials, the State NFIP Coordinator, the FEMA Regional Office, and others as deemed appropriate by FEMA.

News Release Preparation: The MCC shall prepare a news release notification of BFE changes and perform a QA/QC review of each notification for accuracy and compliance with FEMA format requirements. The MCC shall file this notification for later submittal to FEMA for review.

Preliminary Summary of Map Actions (SOMA) Preparation: The MCC shall prepare a Preliminary SOMA for each affected community, as appropriate. The SOMA shall list pertinent information regarding LOMCs that will be affected by the issuance of the DFIRM (i.e., superseded, incorporated, revalidated).

Standards: All work under Activity 5 shall be performed in accordance with the standards specified in Section 5 of this Mapping Activity Statement.

Products: The MCC shall make the following products available when requested by FEMA:

- Preliminary transmittal letters shall be prepared. These letters and any additional letters requested by FEMA shall be prepared in accordance with the current version of the *FEMA Document Control Procedures Manual*.
- Preliminary copies of the DFIRM and FIS report, including all updated data tables and Flood Profiles, shall be mailed to the community Chief Executive Officers (CEOs) and floodplain administrators, the State NFIP Coordinator, the FEMA Regional Office, and others as directed by FEMA.
- Preliminary SOMAs, prepared in accordance with FEMA requirements, shall be provided if appropriate.
- Revised DFIRM mapping files, prepared in accordance with the requirements in *Guidelines and Specifications for Flood Hazard Mapping Partners*, shall be provided on CD-ROM;
- Revised DFIRM database files, prepared in accordance with the requirements in *Guidelines and Specifications for Flood Hazard Mapping Partners*, shall be provided on CD-ROM;
- Revised metadata files describing the DFIRM data, including all required information shown in *Guidelines and Specifications for Flood Hazard Mapping Partners*, shall be provided on CD-ROM; and
- A Summary Report that describes and provides the results of all automated or manual QA/QC review steps taken during the preparation of the DFIRM.

Activity 6 - Post-Preliminary Processing

Responsible Mapping Partner: FCDMC and MCC

Scope: Activity 6 consists of finalizing the DFIRM and FIS report after the Preliminary copies of the DFIRM and FIS report have been issued for public review and comment. The activities to be performed are summarized below.

Initiation of Statutory 90-Day Appeal Period: When required, upon completion of a 30-day community comment period and/or final coordination meeting with the community, the MCC shall arrange for and verify that the following activities are completed in accordance with the current version of the *FEMA Guidelines and Specifications for Flood Hazard Mapping Partners* and *Document Control Procedures Manual*:

- A proposed BFE determination letter is sent to the community CEOs and floodplain administrators of the affected communities.
- A news release is published in a prominent newspaper with local circulation.
- An appropriate notice (i.e., Proposed Rule) is published in the *Federal Register*.

Resolution of Appeals and Protests: The FCDMC and the MCC shall support FEMA in reviewing and resolving appeals and protests received during the 90-day appeal period. For each appeal and protest, the following activities shall be conducted as appropriate:

- Initial processing and acknowledgment of the submittal;
- Technical review of the submittal;
- Preparation of letters requesting additional supporting data;
- Performance of revised analyses; and
- Preparation of the draft resolution letter and revised DFIRM and FIS report materials for FEMA review.

The MCC shall mail all associated correspondence upon authorization by FEMA.

Preparation of Special Correspondence: The FCDMC and the MCC shall support FEMA in responding to comments not received within the 90-day appeal period (referred to as "special correspondence"), including drafting responses for FEMA review when appropriate and finalizing responses when requested by FEMA. The MCC also shall mail the final signed correspondence and distribute appropriate copies upon receipt of authorization from FEMA.

Revision of FIRM and FIS Report: If necessary, the MCC shall work with the FCDMC to revise the DFIRM and FIS report at the direction of FEMA and distribute Revised Preliminary copies of the DFIRM and FIS report.

Final SOMA Preparation: The MCC shall prepare a Final SOMA for the community if appropriate.

Processing of Letter of Final Determination: The MCC shall work with FEMA to establish the effective date for the DFIRM and FIS report, and shall prepare Letters of Final Determination for FEMA review in accordance with the FEMA Document Control Procedures Manual. The MCC also shall mail the final signed correspondence and distribute appropriate copies and enclosures upon receipt of authorization from FEMA.

Processing of Final Rule for Publication in Federal Register. The MCC shall prepare the appropriate Federal Register notice (Final Rule) to finalize BFEs in accordance with the FEMA Document Control Procedures Manual.

Processing of Final DFIRM and FIS Report for Printing: The MCC shall prepare final reproduction materials for the DFIRM and FIS report and provide these materials to the FEMA Map Service Center for printing by the U.S. Government Printing Office. The MCC also shall prepare the appropriate paperwork to accompany the DFIRM and FIS report, including the transmittal letters to the community CEOs, the Print Processing Worksheet, the Printing Requisition Forms, and the Community Map Actions Form.

Revalidation Letter Processing. The MCC shall prepare and distribute letter to the CEOs and floodplain administrators of the affected communities, if appropriate, to notify the communities about LOMCs for which determinations will remain in effect after the DFIRM and FIS report become effective.

Archiving Data: The MCC shall ensure the engineering backup data and related correspondence are packaged and stored properly in the library archives until they are transmitted to the FEMA Engineering Study Data Package Facility.

Standards: All work under Activity 6 shall be performed in accordance with the standards specified in Section 5 of this Mapping Activity Statement.

Products: In accordance with the requirements provided in the current version of the FEMA Guidelines and Specifications for Flood Hazard Mapping Partners and Document Control Procedures Manual, the FCDMC and/or the MCC shall make the following products available to FEMA:

- Documentation that the news release was published in accordance with FEMA requirements;

- Documentation that the appropriate *Federal Register* notices (Proposed and Final Rules) were published in accordance with FEMA requirements;
- A draft and final Letter of Final Determination and associated backup data and information for FEMA review and signature;
- Draft and final Special Correspondence and backup data and information for FEMA review and signature if appropriate;
- Draft and final Appeal and/or Protest resolution letters, and all backup data and information for FEMA review and signature if appropriate;
- Final SOMA, if appropriate;
- DFIRM negatives and printed FIS reports, including all updated data tables and Flood Profiles;
- Paperwork for the final DFIRM and FIS report materials;
- Letter of Map Change Revalidation Letter, if appropriate; and
- Complete, organized Engineering Study Data Package.

2. Reporting:

All Project Team members shall comply with the reporting requirements summarized in Volume 3 of *Guidelines and Specifications for Flood Hazard Mapping Partners*. In addition, the following reporting requirements shall be met:

- The FCDMC will provide quarterly reports to FEMA's Project Officer.
- If any issues arise that could affect the completion of a task within the proposed scope or budget, the Mapping Partner that is responsible for that task must complete a Special Problem Report (SPR) as soon as possible after the issue is identified and submit it to the FEMA Project Officer. The SPR should describe the issue and propose possible resolutions.
- The FCDMC shall be responsible for collecting and maintaining a set of deliverables for all tasks and shall compile a comprehensive TSDN for the entire project.
- All supporting documentation for the mapping activities outlined in this Mapping Activity Statement shall be submitted in the TSDN format in accordance with Appendix M of *Guidelines and Specifications for Flood Hazard Mapping Partners* prepared by FEMA, dated February 2002. Table 2-1 indicates the sections of the TSDN that apply to each activity.

Table 2-1. TSDN—Applicable Sections

Section of TSDN	Mapping Activities			
	1	2	3	4
General Documentation	✓	✓	✓	✓
Special Problem Reports	✓	✓	✓	✓
Telephone Conversation Reports	✓	✓	✓	✓
Meeting Minutes/Reports	✓	✓	✓	✓
General Correspondence	✓	✓	✓	✓
Draft FIS Report				✓
Mapping Information	✓	✓	✓	✓
Miscellaneous Reference Materials	✓	✓	✓	✓

3. Period of Performance:

The mapping activities outlined in this Mapping Activity Statement shall begin on September 27, 2002, and shall be completed no later than September 27, 2004. The Mapping Activities may be terminated at the option of FEMA or FCDMC in accordance with the provisions of the Partnership Agreement dated September 12, 2001.

4. Funding/Cost-Sharing:

5. Standards:

Table 5-1 indicates the standards and documentation relevant to this Mapping Activity Statement. Table 5-2 shows the applicable sections of FEMA's *Guidelines and Specifications for Flood Hazard Mapping Partners* for each activity. These Guidelines may be viewed or downloaded from the FEMA Flood Hazard Mapping website from the following address: www.fema.gov/mit/tsd/gs_main.htm.

Table 5-1. Applicable Standards for Mapping Activities

Applicable Standards	Mapping Activities					
	1	2	3	4	5	6
<i>Guidelines and Specifications for Flood Hazard Mapping Partners, February 2002</i>	✓	✓	✓	✓	✓	✓
Content Standards for Digital Geospatial Metadata (Federal Geographic Data Committee, 1998)		✓	✓	✓		
<i>Document Control Procedures Manual, December 2000.</i>					✓	✓

Table 5-2. Mapping Activities and Applicable Sections of Guidelines and Specifications for Flood Hazard Mapping Partners

Activity Number	Activity Description	Applicable Portions of Guidelines and Specifications for Flood Hazard Mapping Partners (Feb 2002)
1	Base Map Acquisition and Preparation	Volume 1, Sections 1.3 (specifically Subsection 1.3.1.8) and 1.4 (specifically Subsection 1.4.3) Appendices A and B
2	DFIRM Production	Volume 1, Section 1.4 (specifically Subsections 1.4.2.3 and 1.4.3.2) Appendices K, L, and M
3	Independent QA/QC Review of Floodplain Mapping	Volume 1, Section 1.4 (specifically Subsections 1.4.1 and 1.4.2.3) Appendix C, Sections C.4 and C.6 Appendices D, K, L, and M
4	Application of DFIRM Graphic and Database Specifications	Volume 1, Section 1.4 (specifically Subsection 1.4.3) Appendices K and L
5	Preliminary DFIRM and FIS Report Distribution	Volume 1, Sections 1.4 (specifically Subsections 1.4.2 and 1.4.3) and 1.5 (specifically Subsection 1.5.1) Appendices J, K, L, and M
6	Post-Preliminary Processing	Volume 1, Section 1.5 Appendices J, K, L, and M

6. Schedule and Milestones:

Milestone 1: This milestone primarily involves Activity 1, and should be completed within four months of signing this agreement. The products for the first milestone to be provided to FEMA by FCDMC are:

- A description of the proposed DFIRM base map and a sample a digital base map (without floodplain information).
- Selection of the DFIRM pilot study area.
- A diagram showing the proposed DFIRM panel layout and proposed scale of the FIRM panels in the pilot study area.
- A report briefly describing FCDMC proposed methodologies for developing the DFIRM panels and information. Quality assurance and quality control will be addressed as necessary within this report.

Milestone 2 (pilot study): This milestone will involve Activities 2 to 4, and will be completed within six months of signing this agreement. Products for the second milestone to be provided to FEMA by FCDMC are:

- A set of digital files containing the DFIRM data for the FIRM panels in the pilot study area. The digital files will include the base map data as well as all the FIRM information converted to DFIRM format. Where available the FCDMC will also supply the appropriate Enhanced DFIRM information.
- The mapping files will be accompanied by the appropriate DFIRM database tables.
- Metadata files describing the DFIRM data.
- Plots of the DFIRM panels showing all the detail at the scale approved under the first milestone.
- Flood Profiles.
- Floodway Data Table.
- A report describing the actions taken by the FCDMC to develop the DFIRM panels.
- Obtain FEMA's approval that FCDMC's methodologies for developing the DFIRM panels and information are appropriate.

Milestone 3: This milestone should be completed within seven months of signing this agreement. The products for the third milestone to be provided to FEMA by FCDMC are:

- Working with the FEMA Project Officer, the MCC, and using the information learned from the pilot study, the FCDMC will develop a plan of action for completing the project. The plan of action will address phasing the remainder of the project, the development of the timetable, and appropriate scales for each panel.
- The FCDMC will update the report describing the methodologies being used to develop the DFIRM panels and information. The FCDMC will follow the procedures in this report for developing the remaining DFIRM panels and information. During this project it may be necessary to revise these procedures. Revisions to procedures will be discussed with the FEMA Project Officer and the MCC before they are implemented. Revisions to procedures will be documented in the project report.

Milestone 4: This milestone will be completed in phases, involves Activities 2 to 4, and should be started within seven months of signing this agreement. For each phase the products to be provided to FEMA by FCDMC are:

- A set of digital files containing the DFIRM data for each FIRM panel in that phase. The digital files will include the orthophoto base map, as well as all the FIRM information converted to DFIRM format. Where available the FCDMC will also supply the appropriate Enhanced DFIRM information.
- The mapping files will be accompanied by the appropriate DFIRM database tables.
- Metadata files describing the DFIRM data.

- A complete set of plots of the DFIRM panels showing all detail at the scales approved in milestone 3.
- A report describing the actions taken by the FCDMC to develop the DFIRM panels.
- Obtain FEMA's approval that the DFIRM panels and information are acceptable.

Milestone 5: Involves Activities 5 and 6. FEMA's Project Officer and the MCC are responsible for the schedule for this milestone. The products to be provided for this milestone by the FCDMC are:

- To be available to assist FEMA and the MCC in responding to comments received on the DFIRMs
- To assist the MCC in revising (correcting) the DFIRM panels and information.

7. Certification:

The following certifications apply to this Mapping Activity Statement:

Activity 1 - Base Map Acquisition and Preparation

- A community official or responsible party shall provide written certification that the digital data meet the FEMA minimum standards and specifications.
- The responsible Mapping Partner shall provide documentation that the digital base map can be used by FEMA.

Activities 2 - DFIRM Production

- The DFIRM metadata files shall include a description of the horizontal and vertical accuracy of the DFIRM base map and floodplain information.

8. Technical Assistance and Resources:

The FCDMC may obtain copies of FEMA-issued LOMC, archived engineering backup data, and data collected as part of the Mapping Needs Assessment Process from the MCC. The MCC may be contacted at 1-877 FEMA MAP (1-877-336-2627). General technical and programmatic information, such as FEMA 265, the Quick-2 computer program, and the MT-2 forms, can be downloaded from FEMA's Flood Hazard Mapping website (www.fema.gov/mit/tsd/). Specific technical and programmatic support may be provided through FEMA's MCC; such assistance should be requested through the FEMA MCC Project Officer specified in Section 11 of this Mapping Activity Statement.

9. Contractors:

The FCDMC shall ensure that procurement of contractors for work on this Flood Map Project complies with the requirements of 44 CFR 13.36.

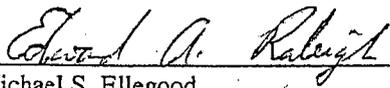
10. Financial Reporting:

Financial reporting requirements shall be in accordance with Cooperative Agreement Articles V & VI.

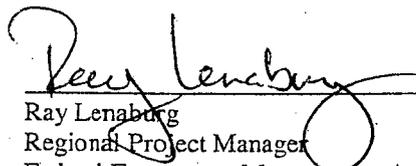
11. Points of Contact:

The FEMA Regional Project Officer is Ray Lenaburg, and the FCDMC's CTP Project Manager is Tim Murphy or subsequent personnel of comparable experience whom are appointed to fulfill these responsibilities. When necessary, the assistance of the MCC should be requested through the MCC Project Officer at FEMA Headquarters, Mike Grimm.

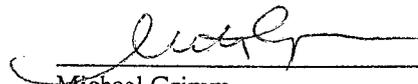
Each party has caused this Mapping Activity Statement to be executed by its duly authorized representative.


for Michael S. Ellegood
Chief Engineer and General Manager
Flood Control of Maricopa County

9/29/02
Date


Ray Lenaburg
Regional Project Manager
Federal Emergency Management Agency, Region IX

09/30/02
Date


Michael Grimm
Project Officer, Western Studies Team
Federal Emergency Management Agency

10/25/02
Date

*In States where statutory and/or regulatory requirements specify the State's review and/or approval of new flood hazard data, the State must sign a the Mapping Activity Statement, otherwise this line should be removed.