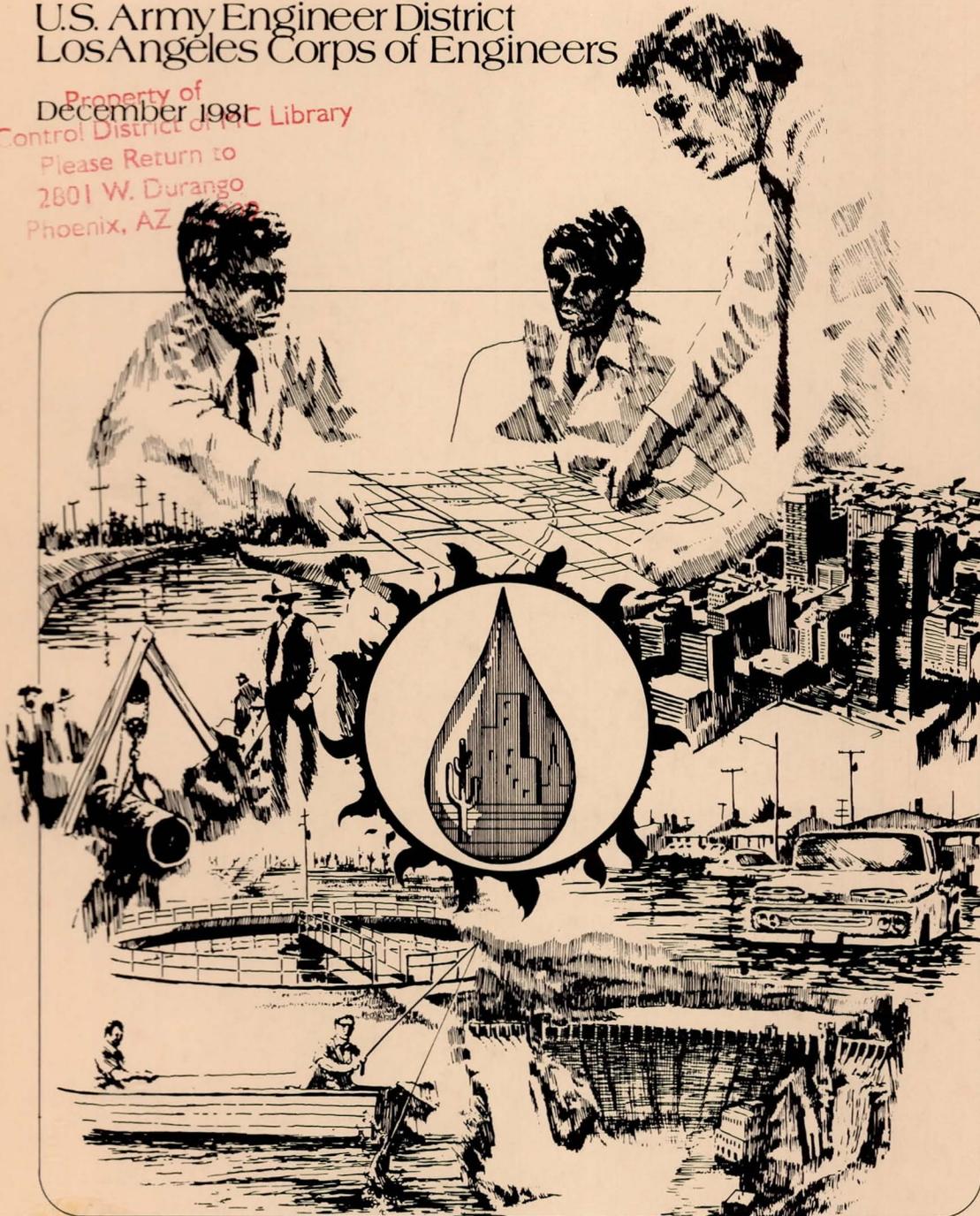


# COMMENTS APPENDIX

## Phoenix Urban Study Final Report

U.S. Army Engineer District  
Los Angeles Corps of Engineers

Property of  
December 1981  
Flood Control District of P.C. Library  
Please Return to  
2601 W. Durango  
Phoenix, AZ



A026.911

COMMENTS APPENDIX

PHOENIX URBAN STUDY

FINAL REPORT

U.S. Army Engineer District  
Los Angeles  
Corps of Engineers  
December 1981

## PREFACE

Water has been the single most important factor contributing to the phenomenal growth of the Phoenix metropolitan area. A century ago, planners in the Salt River Valley were laying the groundwork to develop the limited water resources of the area to the maximum extent possible. In so doing they provided the most feasible location for development of a large population center in the lower Colorado River Basin. The successful development that resulted from the efforts of these pioneers in water resource planning, however, has placed an even greater demand on current available water resources. In recognition of the need to extend and refine water resource planning, the U.S. Army Corps of Engineers undertook the Phoenix Urban Study in cooperation with local authorities.

## THE STUDY

During the course of the Phoenix Urban Study, water resource plans formulated were consistent with other urban programs and flexible enough to allow accommodation of changing social and economic conditions. Because the study interfaced closely with water resource programs of other agencies, special attention was devoted to insuring that the Urban Study did not duplicate the efforts of other agencies, but rather that it served as an extension and a coordination of these efforts.

## STUDY REPORT

The Comments Appendix of the Phoenix Urban Study Final Report presents the responses by Federal, state, and local agencies to the findings of the Urban Study. Where appropriate, these responses are addressed in the Comments Appendix. The organization of the Final Report and the relation of the Comments Appendix to it are shown in Figure P-1.

The Draft Phoenix Urban Study Final Report was circulated for inter-agency review in March 1981 to the Bureau of Reclamation, Environmental Protection Agency Region IX, the U. S. Fish and Wildlife Service, Salt River Project, and, through the A-95 Clearinghouse process to state and local agencies. Almost all of the information contained in the Final Report had undergone earlier interagency review as part of the 208 Water Quality Management Program or the Central Arizona Water Control Study (CAWCS), in which the Urban Study was a participant. The wastewater management program developed by the Urban Study already was being implemented by local interests, and the findings presented in the flood control portion of the Final Report had been transmitted previously to local agencies. Therefore, it was concluded that it would be repetitious to send out all of the supporting documents for a second review. Only the Summary Report and Technical Appendix: Plan of Study for a Demonstration Recharge Project in the Salt River Valley, which had not received previous interagency review, were distributed. Copies of the remaining supporting appendixes and ancillary documents were placed on file for examination in the Phoenix Urban Study office.

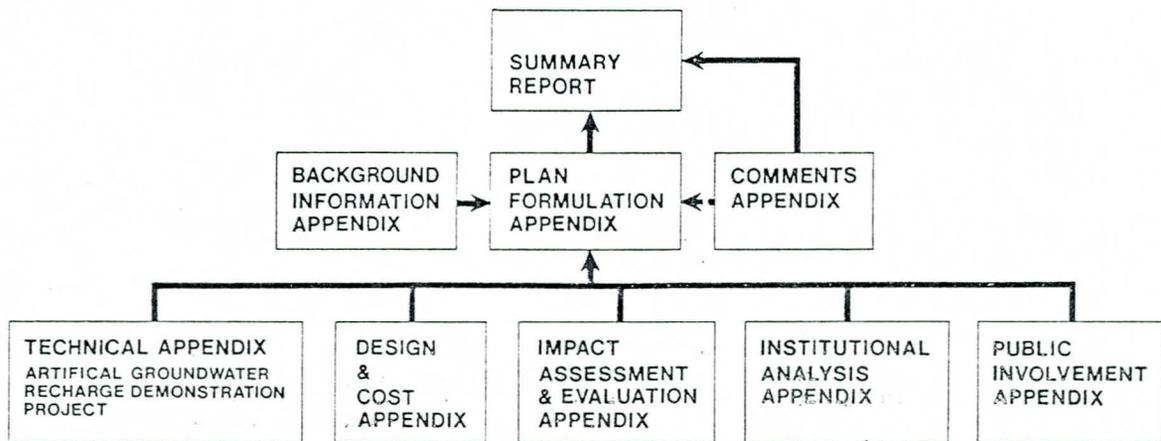


Figure P-1

Study Report  
Organization & Content

COMMENTS AND RESPONSES

# Salt River Project

WATER ♦ POWER

BOX 1980 PHOENIX, ARIZONA 85001

May 8, 1981

TELEPHONE 273-5900

*Will [unclear]*  
*FILE*

Mr. Norman Arno  
Chief, Engineering Division  
Corps of Engineers  
P.O. Box 2711  
Los Angeles, CA 90053

Re: Draft Summary Report, Phoenix Urban Study Final  
Report and Plan of Study for a Demonstration Recharge  
Project in the Salt River Valley

Dear Norm:

In your March 31, 1981 letter, you requested a review  
of the referenced reports and direct comments to your  
Phoenix office.

Upon review, we find our comments on your previous drafts  
adequately addressed.

Thank you for the opportunity to review the documents. We  
look forward to their finalization.

Very truly yours,



D. L. Weesner  
Assistant General Manager-Water

at

cc: Mr. Joe Dixon, COE

12 MAY 1981

TO:

State Application Identifier (SAI)

APR 03 1981

State AZ No.

81-80-0020

of Water Resources  
Wesley E. Steiner  
2 N. Central, Suite 800  
Phoenix, Arizona 85004

Game & Fish                      Region I  
Transportation  
Ag. & Hort  
Archaeological Res.  
Emergency Svcs  
Az. Natural Heritage  
Salt Rv. Indian Clearinghouse  
Bu. of Geology & Min. Tech.  
U. of A., College of Ag.  
Health  
Water  
Land  
Parks  
OEPAD-D. Davis

FROM: Arizona State Clearinghouse  
1700 West Washington Street, Room 505  
Phoenix, Arizona 85007

This project is referred to you for review and comment. Please evaluate as to the following questions. After completion, return THIS FORM AND ONE XEROX COPY to the Clearinghouse no later than 17 WORKING DAYS from the date noted above. Please contact the Clearinghouse at 255-5004 if you need further information or additional time for review.

No comment on this project                       Proposal is supported as written                       Comments as indicated below

1. Is project consistent with your agency goals and objectives?  Yes  No  Not Relative to this agency
2. Does project contribute to statewide and/or areawide goals and objectives of which you are familiar?  Yes  No
3. Is there overlap or duplication with other state agency or local responsibilities and/or goals and objectives?  Yes  No
4. Will project have an adverse effect on existing programs with your agency or within project impact area?  Yes  No
5. Does project violate any rules or regulations of your agency?  Yes  No
6. Does project adequately address the intended effects on target population?  Yes  No
7. Is project in accord with existing applicable laws, rules or regulations with which you are familiar?  Yes  No

Additional Comments (Use back of sheet, if necessary):

Reviewers Signature

*James R. Perry*

Date 5-5-81

*Wesley E. Steiner*

*255-5004*

State Application Identifier (SAI)

APR 03 1981

State AZ No. 81-80-0020

TO:

Mr. James R. Carter, Director  
Agriculture & Horticulture Dep  
421 Capitol Annex West  
Phoenix, Arizona 85007

Game & Fish  
Transportation  
Ag. & Hort  
Archaeological Res.  
Emergency Svcs  
Az. Natural Heritage  
Salt Rv. Indian Clearinghouse  
Bu. of Geology & Min. Tech.  
U. of A., College of Ag.  
Health  
Water  
Land  
Parks  
OEPAD-D. Davis

Region I

FROM: Arizona State Clearinghouse  
1700 West Washington Street, Room 505  
Phoenix, Arizona 85007

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Additional Comments (Use back of sheet, if necessary):

RECEIVED  
APR 3 1981  
ARIZONA COMMISSION OF  
AGRICULTURE & HORTICULTURE

Reviewers Signature

*James R. Carter*

Date 4/6/81

Title

Director

Telephone 4373

State Application Identifier (SAI)

APR 03 1981

State AZ No.

81-80-0020

TO:

Mr. Terry B. Johnson  
Arizona Natural Heritage Program  
30 North Tucson Boulevard  
Tucson, Arizona 85716

Game & Fish                      Region I  
Transportation  
Ag. & Hort  
Archaeological Res.  
Emergency Svcs  
Az. Natural Heritage  
Salt Rv. Indian Clearinghouse  
Bu. of Geology & Min. Tech.  
U. of A., College of Ag.  
Health  
Water  
Land  
Parks  
OEPAD-D. Davis

FROM: Arizona State Clearinghouse  
1700 West Washington Street, Room 505  
Phoenix, Arizona 85007

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6. Does project adequately address the intended effects on target population?  Yes  No
7. Is project in accord with existing applicable laws, rules or regulations with which you are familiar?  Yes  No

Additional Comments (Use back of sheet, if necessary):

Reviewers Signature Terry B. Johnson

Date April 9, 1981

Title Coordinator, ANHP

State Application Identifier (SAI)

TO:

APR 03 1981

State AZ No.

81-80-0020

Mr. Robert Jantzen, Director  
Game and Fish Dept.  
2222 W. Greenway  
Phoenix, Arizona 85023

Game & Fish                      Region I  
Transportation  
Ag. & Hort  
Archaeological Res.  
Emergency Svcs  
Az. Natural Heritage  
Salt Rv. Indian Clearinghouse  
Bu. of Geology & Min. Tech.  
U. of A., College of Ag.  
Health  
Water  
Land  
Parks  
OEPAD-D. Davis

FROM: Arizona State Clearinghouse  
1700 West Washington Street, Room 505  
Phoenix, Arizona 85007

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No comment on this project                       Proposal is supported as written                       Comments as indicated below

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3. Is there overlap or duplication with other state agency or local responsibilities and/or goals and objectives?  Yes  No

4. Will project have an adverse effect on existing programs with your agency or within project impact area?  Yes  No

5. Does project violate any rules or regulations of your agency?  Yes  No

6. Does project adequately address the intended effects on target population?  Yes  No

7. Is project in accord with existing applicable laws, rules or regulations with which you are familiar?  Yes  No

Additional Comments (Use back of sheet, if necessary):

Reviewers Signature James E. Burt

Date 4-13-81

Title Habitat Evaluation Specialist

Telephone 917 2000

TO:

APR 03 1981

State AZ No.

81-80-0020

Dr. Paul Fish., Archaeologist  
Arizona State Museum  
The University of Arizona  
Tucson, Arizona 85721

Game & Fish  
Transportation  
Ag. & Hort  
Archaeological Res.  
Emergency Svcs  
Az. Natural Heritage  
Salt Rv. Indian Clearinghouse  
Bu. of Geology & Min. Tech.  
U. of A., College of Ag.  
Health  
Water  
Land  
Parks  
OEPAD-D. Davis

FROM: Arizona State Clearinghouse  
1700 West Washington Street, Room 505  
Phoenix, Arizona 85007

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7. Is project in accord with existing applicable laws, rules or regulations with which you are familiar?  Yes  No

The statement on environmental considerations directed toward archaeological sites is terribly vague. When considering environmental factors each proposed site must be considered separately both in terms of the prospect of encountering significant archaeological remains as well as how to alliviate any potential adverse impacts. The report statement did not detail any of the indicated cultural remains nor was there mention of adverse impact to such remains. We strongly recommend a more detailed study and presentation be made in the FINAL report in regards to cultural remains.

Reviewers Signature Sharon J. Urban

Date April 21, 1981

Title Public Archaeologist

## RESPONSE

A regional archaeological overview of the Phoenix metropolitan area was prepared by the Office of Cultural Resource Management, Department of Anthropology, Arizona State University, for the Urban Study. This report examined the nature and distribution of archaeological resources in the study area, and was concerned only with prehistoric and historic Indian remains, excluding all non-aboriginal materials.

As a basis for evaluating regional archaeological resources, a complete inventory of all recorded aboriginal archaeological sites was compiled. In preparing the basic site inventory, the archaeological site files at Arizona State University, the Arizona State Museum, the Museum of Northern Arizona, and Pueblo Grande Museum were thoroughly searched by the research archaeologist. The Gila Pueblo site files, now stored at the Arizona State Museum, and the personal papers of Frank Midvale, an amateur archaeologist who worked for many years in the Phoenix area also were examined. The Midvale papers (1920-1971) are stored at the Anthropology Department, Arizona State University. In addition, available published and unpublished reports and papers dealing with the archaeology of the study area were consulted.

The inventory process involved two principal steps. First, basic information from all available sources concerning the nature and condition of each known archaeological site within the study area was recorded on a prepared site data form, and secondly, whenever possible, the exact location of each site was plotted on the appropriate USGS 7.5' topographic map. In addition to these site specific records, data were also collected on the general locations of known prehistoric irrigation systems within the study area, but no attempt was made to plot individual canal courses on the USGS base maps. Information about the nature and extent of past archaeological surveys carried out in the area also was gathered. Whenever possible, the exact areas covered by these surveys were plotted on the 7.4' maps.

Once the archaeological data were thoroughly inventoried, they were evaluated in terms of their general significance and their possible sensitivity to, or conflict with the types of construction activities associated with development of water resources in the Phoenix area. All of the inventoried sites were individually ranked in terms of their potential scientific and historical significance. Next, using site significance and distribution as basic criteria, generalized archaeological sensitivity levels were defined.

Very high sensitivity was attributed to properties on or presently under consideration for nomination to the National Register of Historic Places, while high sensitivity was attributed to other areas expected to contain a high density of very significant archaeological resources. Moderate sensitivity zones were presumed to have fewer sites and/or less significant archaeological remains, while low sensitivity zones were expected to have very few sites and/or sites of little significance. Not all areas of high sensitivity are known, nor are areas designated as low sensitivity zones known to be totally free of significant archaeological resources. In all cases, an intensive, on-foot survey of areas that will be directly affected by construction will be conducted before archaeological clearance is given. The Environmental Protection Agency will not award 201 facility construction grants without a demonstration of archaeological clearance.

## RESPONSE (cont.)

Very High Sensitivity Zones. In the study area four individual sites and five archaeological districts fall into the highly sensitive category. Two of these properties, Pueblo Grande and the Hohokam-Mormon Irrigation Canals, are included in the National Register. The other sites (Mesa Grande and AZ T;4:6, an Archaic tradition site near Skunk Creek), and four of the districts, (Calderwood Butte, New River, Skunk Creek, and Cave Creek Dam) are listed in the Arizona State Inventory of Historic Places, and during the Urban Study were under consideration for nomination to the National Register. The fifth district (Verde-Salt River) was in the process of being added to the State Inventory.

It should be noted that these sites and districts are not necessarily the only properties in the study area which are very important from a strictly archaeological point of view. Their segregation as very high sensitivity zones is a direct result of the fact that steps had been taken to provide them with a certain amount of legal protection.

High Sensitivity Zones. These zones occur primarily in major riverine areas where site disturbance has been minor or moderate. They include areas adjacent to the Gila River and areas along the Salt River in the agricultural district west of the Phoenix urban area. The Queen Creek area in the southeast corner of the study area, an area along Cave Creek north of the Cave Creek Dam Archaeological District, and an area adjacent to the Agua Fria River north of the Calderwood Butte District also are ranked as zones of high potential archaeological sensitivity.

Moderate Sensitivity Zones. These zones include major riverine areas which have undergone moderate to extensive disturbance, and secondary riverine areas where disturbance has been minor. Bajada and mountainous areas adjacent to the substantial prehistoric population centers in riverine regions also are ranked as moderately sensitive.

Within the major riverine environment, the Phoenix, Tempe, and Mesa areas which once contained extensive evidence of Hohokam habitation sites and irrigation systems are ranked as moderately sensitive. Clearly, disturbance of archaeological materials in these areas has been very extensive. For the most part, no surface evidence of any kind remains, although subsurface materials are a real possibility.

Secondary riverine environments ranked as moderately sensitive include relatively undisturbed fringe areas along the Gila River as well as areas along the larger drainages in the northern portion of the study area (Agua Fria and New Rivers and Skunk and Cave Creeks). The lower reaches of the New River and Agua Fria River are only tentatively included as moderate sensitivity zones since these areas have undergone a good deal of agricultural disturbance and presently show little evidence of significant cultural resources. On a general level, however, this riverine environment is expected to have a somewhat higher potential for archaeological sites than do the broad valley areas away from the main drainages.

The McDowell Mountains, Phoenix Mountains, South Mountains, and Sierra Estrella also are ranked as moderately sensitive. Individual recorded sites in these

RESPONSE (cont.)

areas are not numerous, although general reconnaissance has indicated the presence of relatively abundant petroglyph locales as well as smaller sites with scattered sherds and lithics and/or ephemeral architectural features. It is probable that these mountainous zones were important source areas for wild food and various raw materials in prehistoric times.

Low Sensitivity Zones. Low archaeological sensitivity has been attributed to the remainder of the study area, and consists primarily of arid open areas offering few resources to attract prehistoric peoples. It is important to note, however, that a ranking of low sensitivity in no sense guarantees that a given area is entirely devoid of significant cultural resources

Historical Resources. An inventory of historic sites in the study area also identified more than 550 existing historic sites. Proposed projects in the wastewater management plan were reviewed by the Acting State Historic Preservation Officer, and no historic resources listed on the National Register of Historic Places were identified as being affected by the plan. An archaeological site on the State inventory is located near the perimeter of the proposed Reems Road facility, and siting studies will be carried out to assure that artifacts would be protected during plant construction.

TO:

State Application Identifier (SAI)

APR 03 1981

State AZ No.

81-80-0020

Charles A. Ott, Jr. Director  
Div. of Emergency Services  
5636 East McDowell Rd.  
Phoenix, AZ 85008

- Game & Fish
- Transportation
- Ag. & Hort
- Archaeological Res.
- Emergency Svcs
- Az. Natural Heritage
- Salt Rv. Indian Clearinghouse
- Bu. of Geology & Min. Tech.
- U. of A., College of Ag.
- Health
- Water
- Land
- Parks
- OEPAD-D. Davis

Region I

FROM: Arizona State Clearinghouse  
1700 West Washington Street, Room 505  
Phoenix, Arizona 85007

*Mail to*

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- No comment on this project       Proposal is supported as written       Comments as indicated below

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2. Does project contribute to statewide and/or areawide goals and objectives of which you are familiar?  Yes  No
3. Is there overlap or duplication with other state agency or local responsibilities and/or goals and objectives?  Yes  No  
*Not if goals & objectives are coordinated*
4. Will project have an adverse effect on existing programs with your agency or within project impact area?  Yes  No  
*if nothing is done vulnerability and victims of flooding will increase  
Emergency Services.*
5. Does project violate any rules or regulations of your agency?  Yes  No
6. Does project adequately address the intended effects on target population?  Yes  No
7. Is project in accord with existing applicable laws, rules or regulations with which you are familiar?  Yes  No

Additional Comments (Use back of sheet, if necessary):

Reviewers Signature

*Mark Forbes*

Date

*4-19-81*

Title

*Hazard Mitigation Coordinator*

Telephone

*273 9880*

Requested 4/7/81

TO: Val Danos  
Bm. of H2O Quality Control

State Application Identifier (SAI)

APR 09 1981

State AZ No

81-80-0020

Dr. James Sarn, M.D., Director  
Department of Health Services  
1740 West Adams Street  
Phoenix, AZ 85007

- Game & Fish
- Transportation
- Ag. & Hort
- Archaeological Res.
- Emergency Svcs
- Az. Natural Heritage
- Salt Rv. Indian Clearinghouse
- Bu. of Geology & Min. Tech.
- U. of A., College of Ag.
- Health
- Water
- Land
- Parks
- OEPAD-D

Region I

FROM: Arizona State Clearinghouse  
1700 West Washington Street, Room 505  
Phoenix, Arizona 85007



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*There appears to be an overlap at this report with the Mfg 208 Nonpoint Source Report in the water quality section*
4. Will project have an adverse effect on existing programs with your agency or within project impact area?  Yes  No
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6. Does project adequately address the intended effects on target population?  Yes  No
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Additional Comments (Use back of sheet, if necessary):

Reviewers Signature

*[Handwritten Signature]*

Date 4-7-81

State Application Identifier (SAI)

TO:

APR 03 1981

State AZ No.

81-80-0020

Art Auerbach, Supervisor  
Socio Economic Analysis Section  
Dept. of Transportation  
206 So. 17th Ave., Rm. 310 B  
Phoenix, AZ 85007

- Game & Fish
- Transportation
- Ag. & Hort
- Archaeological Res.
- Emergency Svcs
- Az. Natural Heritage
- Salt Rv. Indian Clearinghouse
- Bu. of Geology & Min. Tech.
- U. of A., College of Ag.
- Health
- Water
- Land
- Parks

Region I

FROM: Arizona State Clearinghouse  
1700 West Washington Street, Room 505  
Phoenix, Arizona 85007

OEPAD-D. Davis

RECEIVED

APR 06 1981

SOCIOECONOMIC ANALYSIS

This project is referred to you for review and comment. Please evaluate as to the following questions. After completion, return THIS FORM AND ONE XEROX COPY to the Clearinghouse no later than 17 WORKING DAYS from the date noted above. Please contact the Clearinghouse at 255-5004 if you need further information or additional time for review.

- No comment on this project
- Proposal is supported as written
- Comments as indicated below

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6. Does project adequately address the intended effects on target population?  Yes  No
7. Is project in accord with existing applicable laws, rules or regulations with which you are familiar?  Yes  No

Additional Comments (Use back of sheet, if necessary):

Reviewers Signature

*Paul Woog*

Date

4-27-81

*Phx (Stuckin) TPO*

TO:

*4/28*

State Application Identifier (SAI)

*M. Frank*

APR 03 1981

State AZ No.

81-80-0020

John J. DeBolske, Exec. Dir.  
Maricopa Association of  
Government  
1820 W. Washington St.  
Phoenix, AZ 85007

*0404*

- Game & Fish
- Transportation
- Ag. & Hort
- Archaeological Res.
- Emergency Svcs
- Az. Natural Heritage
- Salt Rv. Indian Clearinghouse
- Bu. of Geology & Min. Tech.
- U. of A., College of Ag.
- Health
- Water
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- OEPAD-D. Davis

Region I

FROM: Arizona State Clearinghouse  
1700 West Washington Street, Room 505  
Phoenix, Arizona 85007

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Additional Comments (Use back of sheet, if necessary):

Reviewers Signature *Jack Tevlin*

Date *4/29/81*

Title *Staff Asst.*

Telephone



# MARICOPA ASSOCIATION OF GOVERNMENTS

1820 WEST WASHINGTON PHOENIX, ARIZONA 85007 (602) 254-6308

April 8, 1981

TO: Ms. Lin Hallickson Wurbs, Assist. to Manager  
 FROM: Clearinghouse Staff Contact: Joyce Akazawa  
 SUBJECT: PROJECT NOTIFICATION AND REVIEW

Applicant: U.S. Army Corps of Engineers

Project Title: PHOENIX URBAN STUDY FINAL REPORT DRAFT  
SUMMARY REPORT

State Application Identifier: 81-εJ-0020

MAG Log Number: 0404

Date Due: April 28, 1981

A copy of an A-95 application form AZ-189 along with supporting project documentation is attached for your review and comment in accordance with requirements of OMB Circular A-95. Please review the proposal as it affects the plans and programs of your agency and register your response below. Please return ONLY THIS completed form by the date noted above.

- No comment on the above project       Proposal is supported as written       Comments as indicated below
1. Is project consistent with your agency goals and objectives?  Yes  No  Not Relative to this agency
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  6. Does project adequately address the intended efforts on target population?  Yes  No
  7. Is project in accord with existing applicable laws rules or regulations with which your are familiar?  Yes  No

Additional Comments (Use back of sheet, if necessary)

Reviewers Signature

*Lin Hallickson Wurbs*

Date

4-23-81



# MARICOPA ASSOCIATION OF GOVERNMENTS

1820 WEST WASHINGTON PHOENIX, ARIZONA 85007 (602) 254-6308

April 9, 1981

TO: Mr. Tom Ford, MAGTPO  
 FROM: Clearinghouse Staff Contact: Joyce Akazawa  
 SUBJECT: PROJECT NOTIFICATION AND REVIEW

**RECEIVED**

APR 9 1981

MAGTPO

Applicant: U.S. Army Corps of Engineers

Project Title: PHOENIX URBAN STUDY FINAL REPORT, DRAFT SUMMARY REPORT

State Application Identifier: 81-80-0020

MAG Log Number: 0404

Date Due: April 28, 1981

A copy of an A-95 application form AZ-189 along with supporting project documentation is attached for your review and comment in accordance with requirements of OMB Circular A-95. Please review the proposal as it affects the plans and programs of your agency and register your response below. Please return ONLY THIS completed form by the date noted above.

- No comment on the above project       Proposal is supported as written       Comments as indicated below
1. Is project consistent with your agency goals and objectives?  Yes  No  Not Relative to this agency
  2. Does project contribute to statewide and/or areawide goals and objectives of which you are familiar?  Yes  No
  3. Is there overlap or duplication with other state agency or local responsibilities and/or goals and objectives?  Yes  No
  4. Will project have an adverse affect on existing programs with your agency or within project impact area  Yes  No
  5. Does project violate any rules or regulations of your agency?  Yes  No
  6. Does project adequately address the intended efforts on target population?  Yes  No
  7. Is project in accord with existing applicable laws rules or regulations with which your are familiar?  Yes  No

Additional Comments (Use back of sheet, if necessary)

Reviewers Signature James T. Reynolds

Date 4/24/81