DEPARTMENT: Public Works  

RECOMMENDED ACTION AND JUSTIFICATION:
Authorization to Solicit Proposals for a Feasibility Study and Concept Plans for the Annexation of Public Water and Wastewater Services.

Public Works is requesting authorization to solicit proposals for a feasibility study and concept plans for the annexation of public water and wastewater services. The purpose of the study is to develop a plan for the possible annexation of water and wastewater services along the Highway 49 South corridor from the Mariposa Town Planning Area to Ben Hur Road. Notably the proposed annexation would incorporate the County Fairgrounds and the Mariposa County Public Works Complex.

Please refer to Attachment #1 (Request For Proposals) for specific information to be requested.

Funding for the feasibility study/concept plan will be provided from Account #312-0901-851-0438

BACKGROUND AND HISTORY OF BOARD ACTIONS:
The Board appropriated funds for a feasibility study during the September, 2003 budget hearings. The Mariposa Public Utility District Board approved the request for proposals May, 2004.

ALTERNATIVES AND CONSEQUENCES OF NEGATIVE ACTION:
Negative action would delay the study. The County may consider conducting the study "in-house" however, that is not recommended due to lack of staff with the required skills and experience.

<table>
<thead>
<tr>
<th>Financial Impact? ( ) Yes (x) No Current FY Cost: $</th>
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<td>Budgeted In Current FY? ( ) Yes ( ) No ( ) Partially Funded</td>
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<td>Amount in Budget: $</td>
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<td>Additional Funding Needed: $</td>
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<td>( ) General ( ) Other</td>
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<td>Annual Recurring Cost: $</td>
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List Attachments, number pages consecutively
1. RFP

CLERK’S USE ONLY:
Res. No.: 04-364  Ord. No. _____
Vote – Ayes: _____ Noes: _____
Absent: _____
Approved
( ) Minute Order Attached  ( ) No Action Necessary

The foregoing instrument is a correct copy of the original on file in this office.
Date: __________
Attest: MARGIE WILLIAMS, Clerk of the Board
County of Mariposa, State of California
By: __________________________
Deputy

COUNTY ADMINISTRATIVE OFFICER:
( ) Requested Action Recommended  ( ) No Opinion
Comments: __________________________

CAO: __________
MARIPOSA COUNTY BOARD OF SUPERVISORS

MINUTE ORDER

TO: JIM PETROPULOS, Public Works Director
FROM: MARGIE WILLIAMS, Clerk of the Board
SUBJECT: SOLICITATION OF PROPOSALS FOR A FEASIBILITY STUDY AND CONCEPT PLANS FOR ANNEXATION OF PUBLIC WATER AND WASTEWATER SERVICES ALONG HIGHWAY 49 SOUTH CORRIDOR
Resolution No. 04-364

THE BOARD OF SUPERVISORS OF MARIPOSA COUNTY, CALIFORNIA,

ADOPTED THIS Order on August 3, 2004

ACTION AND VOTE:

B) Authorize Public Works to Solicit Proposals for a Feasibility Study and Concept Plans for the Annexation of Public Water and Wastewater Services Along the Highway 49 South Corridor from the Mariposa Town Planning Area to Ben Hur Road

BOARD ACTION: Discussion was held. Supervisor Pickard commented on trying to coordinate this project with other infrastructure projects such as the Mariposa Creek Parkway. (M)Pickard, (S)Bibby, Res. 04-364 was adopted. Supervisor Balmain initiated discussion relative to the need to extend the water and wastewater services on Highway 49 North. Chairman Parker suggested that MPUD be contacted relative to extending the services on Highway 49 North. Supervisor Bibby clarified that the services provided by MPUD include water, wastewater and fire. Ayes: Unanimous.

cc: File
MARIPOSA COUNTY WATER AGENCY
REQUEST FOR PROPOSALS AND QUALIFICATIONS

FEASIBILITY STUDY AND CONCEPT PLANS FOR THE ANNEXATION OF PUBLIC WATER AND WASTEWATER SERVICES

Mariposa County is interested in extending services of an existing water, wastewater and fire protection service provider, Mariposa Public Utility District (MPUD), to the southern portion of the Mariposa Town Planning Area (MTPA).

The Mariposa County Dept. of Public Works is seeking a qualified professional to prepare a written feasibility report for the annexation of land to the Mariposa Public Utility District. A site map is attached. The report shall include:

1. Demographic characteristics of existing and potential areas to be annexed including future growth up to 25 years.

2. Discuss current and potential land uses including publicly owned facilities, commercial and residential developed parcels.

3. Inventory of existing water source, treatment and distribution (infrastructure needs and deficiencies.)

4. Investigate alternatives for providing water and wastewater disposal in the study area.

5. Discuss impacts on current facilities.

6. Inventory existing wastewater collection and treatment including impacts on current facilities and permitting (infrastructure needs and deficiencies.)

7. Provide conceptual/preliminary design of water and sewer system improvements necessary for MPUD service expansion.

8. Prepare project cost estimates based on conceptual design alternatives.

9. Discuss potential funding sources for design and construction costs.

10. List the procedures for the expansion of the MPUD political boundary, LAFCO, Sphere of Influence, etc.

11. List permitting requirements for alternatives discussed in the study.

12. Discuss potential demands on the existing MPUD fire department and recommend appropriate mitigation.

AREA OF PROPOSED ANNEXATION (STUDY AREA):
The area considered for annexation to the District is located approximately 1.5 miles down a narrow canyon from the existing wastewater treatment facility (WWTF). The land area is approximately 180 acres and is partially developed. Major existing development include the Mariposa County Fairgrounds and the Mariposa County Dept. of Public Works administrative

Attachment #1
offices and corporation yard, and two petroleum product distribution centers. There is some light commercial and residential development in the area.

70% of the parcels within the proposed study area are less than five acres. The minimum size parcel allowed in current zoning requirements without community water or wastewater disposal services is five acres.

Current water services are provided from on-site wells. There is no existing water distribution in the area. The most developed water system is on the Mariposa County Fairgrounds property consisting of water storage tanks and a few Warf type fire hydrants. There is known hydrocarbon contamination of soil and ground water in the area of the Public Works corporation yard and at one of the gasoline distribution facilities. The petroleum product distribution facility has been identified as the cause of the contamination. Water for employee and public consumption at the County Public Works facility is now imported from a potable water source outside of the study area.

Current wastewater disposal is accomplished with on-site septic tank and leach field systems. The lack of access to wastewater treatment facilities is a limiting factor in the development of the area. Some developed parcels are utilizing questionable on-site sewage disposal facilities. One parcel owner has been denied a permit for replacement of an existing on-site sewage disposal system for a single family residence due to the size of the parcel and the proximity to Mariposa Creek.

MARIPOSA PUBLIC UTILITY DISTRICT:
The Mariposa Public Utility District is located within Mariposa County in the foothills on the west side of the Sierra Nevada mountains at an elevation of approximately 2000 feet.

MPUD provides water, sewer and fire protection services to the town of Mariposa, within the Mariposa Town Planning Area (MTPA). In 1984 an additional 553 acres were annexed to its original 320 acres for a total District area of 873 acres. The District currently has 702 service connections and services a population of approximately 1800. The most recent Master Plan for the MPUD was prepared in 1989.

PUBLIC WATER SUPPLY:
The MPUD water supply sources include two surface water sources (Merced River at Saxon Creek and the Stockton Creek reservoir), and four ground water wells. The District owns and operates a water treatment facility that provides filtration, disinfection and some corrosion control. All surface water sources are treated at the facility. The treatment facility capacity is 500 gpm, or .720 million gallons per day.

The distribution system consists of 4" to 12" diameter steel and PVC pipe, two one-million gallon treated water storage tanks and one 72,000 gallon treated water storage tank providing service to all four pressure zones. The steel water mains installed in 1952 are in very poor condition. MPUD is proceeding with a grant fund construction project to replace most all of the steel water mains.

WASTEWATER SERVICES:
The District constructed wastewater collection and treatment facilities in 1958.
Treatment:
The current wastewater treatment facility was constructed in 1984. The design capacity of the facility is .610 mgd, average daily flow. The facility is currently operating at less than 50% of design flow capacity. Unit process include flow monitoring, two oxidation ditches, two circular clarifies, disinfection (Cl₂, Cl₂ removal (SO₂), and discharge to Mariposa Creek. Waste sludge is dewatered with a belt filter press.

The District operates the facility under an NPDES permit issued by the California Regional Water Quality Control Board (RWQCB). The discharge from the facility consistently meets NPDES requirements.

Collection:
The wastewater collection system originally constructed in 1958 is made up of 6" and 8" vitrified clay pipe (VCP). Extensions and replacement of portions of the VCP are PVC pipe. The District is currently working on an infiltration study to determine where repairs are necessary. The capacity of portions of the collection system is reviewed as larger development projects are proposed.

The existing treatment facility has capacity for considerably more development provided changes in the NPDES permit do not reduce the capacity. However, some portions of the collection system, primarily the VCP portions, are near or at capacity and are in need of rehabilitation.

PROPOSALS:
The consultant’s proposal shall:

1. Demonstrate experience in the preparation of Master Plans and Feasibility Studies for similar utility agencies.

2. Contain a minimum of three (3) references from clients for whom the consultant has provided work of a similar scope.

3. List the project team manager and members.

4. Discuss the understanding of this project and approach to the study.

5. Show examples of graphic tools to be used in the study.


SUBMITTAL REQUIREMENTS:
Respondents must submit five (5) bound copies of their submittal.

Submittals will be accepted until 3:00 p.m. on ______________, 2004 and are to be delivered to the Mariposa County Dept. of Public Works, 4639 Ben Hur Road, Mariposa, CA 95338. Submittals may be made by mail or personal delivery. Delivery by fax, email or other telecommunications NOT acceptable.