

June 30, 1970

Mr. Paul Wolven, City Manager  
City of Oxnard  
Post Office Box 1192  
Oxnard, California 93030

**SUBJECT: Study of Facilities Required for Water  
Quality Improvement**

Dear Mr. Wolven:

In accordance with our proposal to you dated June 23, 1970, we submit hereunder a report upon the subject study.

The study involved an adaptation of the 1962 Master Plan Report, prepared by this office. The period covered by this study is limited to about 5 years. For the purpose of determining estimated demands, the population projections made in the referenced report were utilized. The study further is based upon the assumption of progressive development of the City. Isolated developments remote from the presently developed portions may be beyond the capabilities of the proposed water system improvements for delivering uniform water quality. Only sources of supply and transmission lines (16 inches and larger) are considered in this report. Smaller lines which may be required to convey water to local areas are not within the scope of this report.

Two construction phases are proposed. The first priority is that which is considered to be essential to the delivery of a uniform water quality throughout the City at the present time and for a minimum period of 3 years or so in the future. The second priority is that which will probably be required within the 5 year period, depending upon the actual rate of development and the location of the actual development.

The concept for delivering uniform quality of water throughout the City is based upon blending local water with water imported through the Calleguas Municipal Water District system. This precludes delivering water directly into the system at remote locations such as from Wells Nos. 13, 14 and 15. These wells, however, have considerable value as standby sources for uses during emergencies, and therefore should be retained for this purpose.

AGENDA ITEM NO. 7-1A

The present over-all demand on the system is estimated to be about 20,000 gallons per minute or 44 1/2 cubic feet per second. Based upon the increase in population contemplated in the referenced 1962 Master Plan Report, within a 5 year period the demand may increase by approximately 33 percent, or to a total of about 27,000 gallons per minute (60 cubic feet per second). Oxnard's participation with Calleguas Municipal Water District in the construction of the Oxnard-Santa Rosa Feeder entitles the City to a capacity of 25 cubic feet per second in this line. Upon completion of the first increment of the Springville Reservoir, available water for peak flows will be materially increased. Thus at the present time, if all items recommended under the first priority were constructed, the maximum ratio of imported water to local water is about 1 to 1. This would provide for certain industrial users located along Rice Road to receive imported water without blending.

The enclosed map indicates existing transmission lines, 16 inches and larger, and those proposed under the two priorities previously mentioned. Also shown are the normal sources of supply to the water system as follows:

Main Plant Blending Station	- Existing
Industrial Well Blending Station	- Budgeted under a HUD grant program.
Gonzales Road Blending Station	- Proposed under second priority herein.

The proposed facilities are those indicated on the Master Plan with certain exceptions. The existing 24 inch line in "A" Street between Third Street and Sixth Street has been constructed as a 24 inch instead of 27 inch as called for on the Master Plan. The proposed plan calls for the continuation of this line as a 24 inch line and a 24 inch line in Wooley Road from "A" Street to "J" Street. This larger line in Wooley Road, in lieu of the 16 inch line originally proposed, compensates, in part, for the increased friction in the 24 inch line in "A" Street and the loss of production in the westerly part of the City by reverting the existing wells to standby status. Similarly, the 16 inch line in "A" Street and Oxnard Boulevard between Third Street and Gonzales Road has been increased to a 20 inch line. This will permit deferring the proposed 36 inch transmission line in Gonzales Road from Rose Road to Oxnard Boulevard for several years.

The Gonzales Road Blending Station would be the first increment of a larger station contemplated in the Master Plan. The source of "local" water for purposes of blending with imported Calleguas water would be the United Water Conservation District 42 inch transmission line. It is

proposed that sufficient property would be acquired for the construction of future wells.

Cost estimates for these facilities, which are shown on the attached Cost Estimate data sheet, are of a preliminary nature, and are intended to be used for budget purposes. The basis for the estimates are present costs, escalated by 7 percent per year for one and one-half years to cover the cost of inflation, and include an allowance of 25 percent for engineering, administration of contracts and contingencies.

A comprehensive review of the entire Master Plan, as recommended in our June 23rd letter, may disclose requirements over and above those indicated herein. However, we are confident that the proposed plan is sufficiently flexible that additional sources of supply or reinforcements to the system can be added in a logical and economical fashion, if desired.

Very truly yours,

PERLITER & INGALSBE

By W. E. Ingalsbe  
W. E. Ingalsbe

WEI/bjw

Enclosures: (2)

COST ESTIMATES

ITEM NO.	DESCRIPTION	QUAN- TITY	UNIT	UNIT COST	AMOUNT
<u>FIRST PRIORITY</u>					
1.	30" Pipeline in Third St. from Main Plant to "A" St.	900	Lin. Ft.	\$ 130.	\$ 117,000.
2.	24" Pipeline in "A" St. from Sixth St. to Wooley Rd.	2900	Lin. Ft.	46.	133,400.
3.	24" Pipeline in Wooley Rd. from "A" St. to "J" St.	2900	Lin. Ft.	46.	133,400.
4.	16" Pipeline in Wooley Rd. from Donlon Ave. to "A" St.	700	Lin. Ft.	32.	22,400.
5.	20" Pipeline in "A" St. and Oxnard Blvd. from Third Street to Gonzales Rd.	7200	Lin. Ft.	37.	266,400.
6.	36" Pipeline in Gonzales Rd. from Oxnard Blvd. to Ventura Blvd.	5400	Lin. Ft.	69.	372,600.
Total, First Priority					\$1,045,200.
<u>SECOND PRIORITY</u>					
7.	Gonzales Road Blending Station	1	Job	L.S.	\$ 103,000.
8.	24" Pipeline in Gonzales Rd. from Rice Rd. to Rose Rd.	5000	Lin. Ft.	\$ 41.	205,000.
9.	16" Pipeline in "C" St. from Wooley Rd. to Channel Is. Blvd.	6000	Lin. Ft.	32.	192,000.
Total, Second Priority					\$ 500,000.
Grand Total, Priorities No. 1 & No. 2					\$1,545,000.