

HENNINGSON, DURHAM & RICHARDSON

ENGINEERING • ARCHITECTURE • PLANNING

310 Capitol Life Center
Denver, Colorado 80203
March 1, 1977

Grand Valley Irrigation Company
688 North 26 Road
Grand Junction, Colorado 81501

Attention: Mr. Bob Henderson, Manager

RE: Grand Junction Area Wide Wastewater
Treatment Study

Gentlemen:

As Engineers for the City of Grand Junction/Mesa County we are engaged in the development of wastewater treatment alternatives for the Grand Junction Valley-Wide Region including the Redlands area.

The City is required by State and Federal law to investigate various types of wastewater treatment processes. Included in this requirement is the study of waste treatment through the application of treated effluent to the land for agricultural irrigation frequently referred to as land treatment.

The City/County is contemplating a new wastewater treatment facility in the vicinity of I-70 and 22 Road on the river side of the Denver & Rio Grand Western Railroad.

If the ultimate disposal of the liquid from this treatment process would be land treatment we would consider as a secondary treatment process, aerated lagoons including disinfection and a non-irrigation season storage reservoir. Before this alternative is pursued in too much technical detail we would like to present this alternative to the Grand Valley Irrigation Company for your consideration. The questions that we have for your Board to relate to this treatment scheme are as follows:

1. Does the Grand Valley Irrigation Company need or want wastewater effluent for use in its irrigation service area?

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The City's timing would be such that this effluent would be available approximately in 1980 and would be pumped after treatment into the Grand Valley Canal in the vicinity of 22 Road just south of "K" Road. The available flows coming from the land treatment system would range from approximately 6,000 acre-feet per year in 1980 to approximately 12,000 acre-feet per year in 1992.

2. Would the Grand Valley Irrigation Company consider such a request of receiving the Valley-Wide area's treated wastewater as an irrigation supplement to the flows in the Grand Valley Canal during the irrigation season?

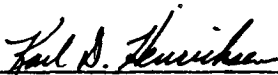
There would be some bonuses derived from receiving this effluent in that some nitrogen would be available in the liquid which would be applied to the irrigated lands and in the event the irrigation water is reducing in your District the effluent would represent an increasing source of liquid to be applied to the land.

We would appreciate knowing whether this treatment alternative could be pursued in any more detail with your Irrigation District.

Yours very truly,

HENNINGSON, DURHAM & RICHARDSON, INC.
OF COLORADO

By



Karl D. Henrichsen
Vice-President

KDH:ttn

cc: D. Jensen, City of Grand Junction
J. Franklin, HDR ✓