

October 20, 2021

Adam Cwiklin, CWP  
Water and Wastewater Superintendent  
Town of Fraser  
153 Fraser Avenue, PO Box 370  
Fraser CO, 80442  
Via email: [acwiklin@town.fraser.co.us](mailto:acwiklin@town.fraser.co.us)

**RE: Proposal for a 10-Year Water System CIP Report, Fraser Colorado**

Dear Adam:

Merrick & Company (Merrick) is pleased to present this proposal to study water supply system needs for the Town of Fraser, to identify tentative system upgrades and water sources to fulfill those needs, and to estimate costs associated with constructing the additional water supply infrastructure. This work will be completed under our ongoing services agreement with the Town.

We understand that the North Water Supply System (North System) may not have adequate water rights for future supply needs, and we understand that the North System and South Water Supply System (South System) may have inadequate infrastructure for future growth. One of the objectives of our proposed report is to predict what additional infrastructure and water supply may be required to meet further growth.

We propose to complete the following activities:

- Review the current Fraser water supply systems and the most recent Water Supply Report dated June 2020.
- Compare the current water supply systems to ultimate demands based on the ultimate Fraser build-out.
- Identify preliminary additional conveyance, storage, and source areas for the North and South Systems and create models to demonstrate the upgrades. This will be based on the layout, condition, and capacity of the water supply, storage, and distribution systems.
- Coordinate with HRS Water Consultants of Lakewood Colorado, who will conduct preliminary groundwater studies that will consist of:
  - Identifying the extent of local shallow aquifers capable of supporting Fraser's additional water supply needs.

Employee Owned



2480 W. 26<sup>th</sup> Street, Unit B225  
Denver, Colorado 80211



Tel: +1 303-964-3333



[hello@merrick.com](mailto:hello@merrick.com)  
[www.merrick.com](http://www.merrick.com)

- Tentatively predicting the yield of these aquifers and the approximate size of wells necessary to produce Fraser's additional water supply needs.
- Prepare a summary report which will include the following:
  - A narrative description of the current Town water supply system, broken out by the North and South Systems.
  - A description of current North and South System assets including storage, pumping systems and conveyance.
  - Separate descriptions and calculations of ultimate water supply needs in the North and South Systems.
  - A description of new needs in each system and reconciliation of the calculated needs with the Water Master Plan.
  - A summary of additional water supply sources and tentative water supply well locations and sizes, and timing of those needs at the corresponding EQR.
  - A demonstration of how the new systems and supply will operate by modelling the current versus new systems. The North and South Systems will be included in the model.
  - A spreadsheet calculation of CIP costs in projected years over a 10-year period to meet ultimate needs. The CIP will be broken down by North and South Systems and will predict what infrastructure will be required for growth in each system.

### **Assumptions**

Our fee includes coordination with HRS but does not include the cost of their services. HRS will invoice the Town separately under their ongoing services agreement.

### **Fee**

We have assumed a reasonable effort to address our understanding of the Town's needs for a 10-year water supply CIP. We estimate the fee for this work to be in the range of \$40,000 to \$45,000 and will not exceed the higher number without justification and prior authorization. The fee is based on an hourly rate plus expenses basis in accordance with our current rate schedule. Please contact us if you have any questions or concerns regarding these proposed services.

Sincerely,

**Merrick and Company**



Randy Kenyon, P.E.  
Project Manager



Terry Kenyon, P.E.  
Principal/Senior Project Manager



Cc: Russell Pennington, Public Works Director

The above proposal is accepted by the Town of Fraser, and the Engineer is authorized to proceed with the work.

By: \_\_\_\_\_ Date: \_\_\_\_\_

