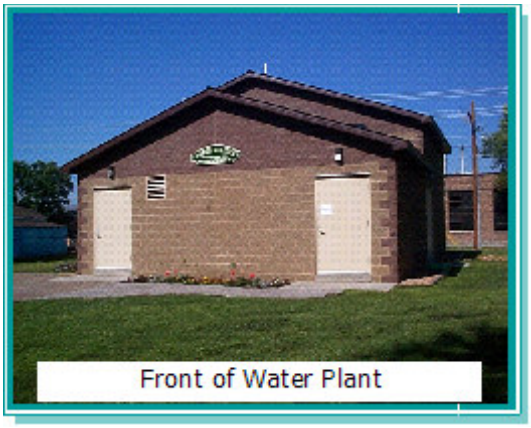
Princeton Water Plant No. 1
Operator and Community Friendly

The City of Princeton needed an increase in well capacity to meet the demands of the growing population. Several sites for a new well were identified and a site adjacent to the Public Utilities Commission (PUC) Building was selected. Water quality data from the test well showed high levels of iron and manganese, so the PUC decided to construct an iron and manganese removal plant at the site. Residents were concerned that construction of another municipal facility would cause the intersection to lose its community feel. PCE's Water Treatment Plant (WTP) design provided the following benefits that ensured an operator focused facility and maintained a friendly community atmosphere.


Front of Water Plant

Benefits of Design:

+ Easily accessible from the PUC building.
+ Automated backwash.
+ Plant will deliver 750 gpm of water.
+ Backwash tank and sludge wasting pump can be accessed from within the WTP.
+ Sludge recycle pump is located above grade in the WTP.
+ Emergency generator with an automatic switch-over.
+ Grant monies will be used to landscape the site as a park. Landscaping will include a hand operated pump, which will allow visitors to pump water by hand from the test well.
+ Well is designed to ensure longevity.


The well is designed to provide 750 gpm of water while ensuring longevity of the well.


The backwash collection sump is designed to allow for the water to be recycled with minimal maintenance efforts.

Client: Princeton Public Utilities
Client Contact: Maureen Gould
Year Completed: 1998
Bid: $595,300 Construction: $596,480 Change Order: 1.0%

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Water Treatment Plant

Water Engineering