



Reynolds, Inc.



December 12, 2005

Jeff Brooks
Project Representative
Columbus Division of Water
Technical Support Section
910 Dublin Road, 2nd Floor
Columbus, Ohio 43215-1116

**REGARDING: RE-SCREENING PROPOSAL FOR COLLECTOR 104
CONTRACT NO. 1071, PROJECT NO. 690291**

Dear Mr. Brooks:

As requested in our November progress meeting, herein please find our proposal presenting an alternate method to maximize efficiency and yield of the City's Collector Well 104. This alternative is necessary due to the variable nature of the site which has prevented us from installing the total length of new screen desired at the C-tier elevation.

Reynolds proposes to re-screen the old producing laterals in Collector Well 104, presently reported to be Lateral A-6 (150 feet long), A-8 (136 feet), B-4 (113 feet), and B-6 (135.5 feet long). Our proposed method will include the following work items:

- Remove temporary work platform and flood caisson
- Remove 15 blind flanges on previously abandoned laterals
- Conduct underwater flow test to verify flow from individual collector laterals
- Replace blind flanges on non-producing laterals.
- Install a new 16-inch diameter gate valve equipped with a 2-inch operating nut on each of the producing laterals.
- Dewater the collector caisson and reset the temporary work platform, as necessary.
- Install new stainless-steel, wire-wound screen inside the entire accessible length of each old producing lateral. New lateral screen is proposed to be 8-inch diameter with a slot size of 0.150", compared to 0.375" previously utilized in the old 16-inch screen pipe.
- Develop the re-screened laterals individually according to the specifications.

Although lining old collector laterals is commonplace throughout Europe, it has been performed infrequently in the United States. Reynolds' Ranney crews recently re-screened collector laterals with the assistance of divers for Sonoma County Water Agency (SCWA), Santa Rosa, California. We have also conducted some lateral lining

work for Louisville Water Company (LWC) in Louisville, Kentucky. Please feel free to contact Jay Jasperse with SCWA (707-526-5370) or Kay Ball with LWC (502-569-3600) for further information regarding these projects.

Reynolds proposes to re-screen the 16-inch diameter laterals in Collector 104 for the current contract price of **\$465/foot**. Since the procedures utilized to re-screen the old laterals are essentially the same as projecting new ones, our costs associated with this work will be comparable.

Prior to the re-screening effort, Reynolds proposes to remove the blind flanges on the old laterals, conduct a flow test to verify flow from individual laterals, install new valves on the old producing laterals, and replace the blind flanges on the non producing laterals. This work can be conducted for the lump sum price of **\$101,250**.

We trust this pricing meets with your approval. Please let us know if you have any questions or require additional information at this time.

Respectfully submitted,

RANNEY SERVICES
REYNOLDS, INC.

Gregory B. Slone

Gregory B. Slone
Technical Representative

cc: Steve Hainen, Columbus Division of Water
Les Archer, Reynolds, Inc.