WORK PLAN WELL #27

PROJECT DISCRIPTION

The well 27 system was designed and constructed in the 1920's.It pumps approximately 82.716 million gallons of water each year. By using our measurement methods it has been determined that 33% or approximately 26.60 million gallons is not making it to the end user. This loss is caused by damaged concrete pipes, blockages, leaking gates and valves and the high friction coefficient of the old concrete pipes. By replacing approximately 8250 ft of this system with new 12 inch schedule 80 PVC pipe, hub gates and valves we will eliminate this loss.

In addition to wasting our precious ground water resource we are using an extra 13,293 kWh of power per year to provide the water users with the water they need.

Throughout the 25 year useful life of this project it is estimated we will save 665.134 million gallons of water and 332,134 kWh of electricity.

WORK TASKS

We will begin digging out the old concrete pipe with a backhoe. In the resulting trench the new pipe will be put in place and attached together. Hub gates, valves, air vents and surges will be placed where the old ones were removed. While the new pipe is being installed the old concrete pipes will be crushed and loaded into dump trucks for disposal. After the pipe has been fitted with the new gates and valves the trench will be back filled. The restoration will progress at approximately 300 ft/day.

MONITORING

The project manager will be on site each day to observe and monitor the progress rate of the project which should be approximately 37.5 ft/hr or 300ft/day.

ENVIRONMENTAL COMPLIANCE AND PERMITS

Permits and CEQA obligations with the project will be dealt with upon award of grant. The time period between the award and the start of this project (20 months) will provide ample time to complete those tasks.

#27 - ~~2000~~ 8236

RANCHO SAUCOS (10)

SIERRA VISTA AVE.

SIERRA

LEWIS AVE.

TRUCKEE AVE.

BREA AVE.

CENTRAL AVE.

Rodeo Creek

Rodeo Creek

(37) 9.86Ac HALE, C.

(36) 3.67Ac HALE, C.

(2) 4.00Ac. GALANTINE C.

(6) 8.75Ac. MOHIS K.

94D

108

(22) 40 Ac.

107

106 B

109A (5) 7.74Ac. #32 RANDHAWA, T

109C

109B

109D

RANDHAWA

(38) 3.16Ac RANDHAWA, T

(39) 3Ac RANDHAWA, T

(40) 3Ac RANDHAWA, T

(41) 3Ac RANDHAWA, T

(51) 78.23Ac

MURPHY W.

110 (8) 20.62Ac

(23) 28.66 Ac.

111 MURPHY W.

112 B

#36 Capstand

(REM) (42) 12.44Ac

124 RANDHAWA, T

MURPHY W.

123 (9) 32.27Ac.

122 B (36) 20.00 Ac.

125C

125B

125A

(52) 5.05Ac TRENT

(53) 7.58Ac TRENT

(14) 10.00Ac. TRENT

(33) 9.90Ac TRENT (REM)

(47) 5.24Ac PVC 80PSI

(26) MAGUIRE P. 11.63 Ac.

(35) 10.12Ac

(45) 5.02Ac HOGAN D.

(43) 5.85Ac MAGUIRE, P.

MAGUIRE, P. (44) 4.90Ac

126C MAGUIRE P. (48) 5.91Ac

126B HOGAN D. (46) 5.10Ac

(25) GARCIA, P. 126A 3.35Ac

(29) 5.44Ac TRENT, K

(30) 4.55Ac 127 TRENT

(31) 4.55Ac TRENT

(32) 4.55Ac TRENT

(20) 6.05Ac.

(21) 6.05 Ac. ROUSH, D

128 (10) 12.11Ac. MILLER K.

(64) 5.24Ac

(66) 10Ac

129C

129B (34) 24.22Ac.

(6) 5.0Ac. Garcia R.

Box (20) 5.0 Ac. NICKLER, K

142A Hernandez U (32) 21 6.61Ac

(7) 6.61Ac. LOPEZ P.

Williams L. Bannelle, H. Wellette Fam. Trust (33) 5.62Ac

141B (10) 6.00Ac.

Quirke M (28) 11.61 Ac.

141A

Blacker 140B

(40) 10Ac

Box

Wyatt B

(1) 11.00Ac.

143B (3) 11.00Ac.

Campbell, R Bavestrello, G

143A

Gutierrez P (5) 33.90Ac.

Campbell R (4) 10.68Ac Bavestrello G

(34) 5.64 A

(37) 5.64 B

PVT Bradshaw M

(8) 23.23Ac.

(38) 5.97 C

(39) 5.97 D

143C

143D

Gutierrez P

141C (31) 18.22Ac

Quirke M

141D

Bealer E (30) 5Ac

140C

Wyatt B

140D

old line

Gate

Box

NOAH Valley PARTNERS #1

144B (15) 49.65Ac.

144A

Surge 2 gates

145B (16) 21.97 Ac.

145A (17) 21.97 Ac. Alosi, S.

146B (26) 10.99 Ac.

(25) 10.99 Ac. 146A

Jonsson T

Carson W.

Dean C

C

Jonsson T

Scheel R

Box A (30) 5.00 Ac. Knutson K

10" PVC

(31) 5.00 Ac. Schmitz C

(32) 6.90 Ac. Scheim D

NOAH Valley PARTNERS #1

144C

Mutschler R

144D

145C

145D

146C (27) 10.99 Ac.

(24) 10.99 Ac. 146D

147C