

W A T E R U T I L I T Y H I G H L I G H T S

The Water Utility submits a six-year expansion program of over 1.4 million dollars. Its primary aims, beyond provision of routine new connections and equipment, are (1) to upgrade as much of the existing system as possible to meet the National Board of Fire Underwriters standard of pressure and capacity for fire safety (which is considerably in excess of residential needs), and (2) to insure that such a standard can be maintained despite future growth of the Anchorage area. Among the major projects planned are new wells in the University and Spenard areas, loop ties in many areas, and improvement of intake and treatment plant to make possible future use of Campbell Creek water. Planning of the program has been guided in part by the Analysis of 1962-80 Water Distribution System, prepared by Tryck, Nyman and Associates for the City and published in January, 1963. The utility pays all its cash costs and debt service out of users' charges.

WATER UTILITY PROJECT DESCRIPTIONS

Note: Consultant recommendations referred to are given on pp.1-4 and 33 of Analysis of 1962-80 Water Distribution System, Tryck, Nyman and Associates, Anchorage, January, 1963.

1. Subdivision and Improvement District Extensions
Department requests \$100,000 annually, 1964-69. Extensions should keep pace with urban growth to assure most convenient, economical system. Precise figure may require adjustment in years of unusually rapid or slow construction. Planning Commission recommends approval.
2. Miscellaneous Drop Ties within City
Department requests \$120,000 broken down as follows: 1964 -\$50,000; 1965 -66 - \$20,000 annually; 1967-69 - \$10,000 annually. To be constructed as pressure needed for fire protection, with increased domestic use. Many small projects not listed in 1962 consultant recommendations. Planning Commission recommends approval.
3. New Water Meter Installations
Department requests \$50,000 for 1964. To meter commercial users and large apartment houses. Will simplify billing, thereby lowering water bills to users so served. Planning Commission recommends approval.
4. Rehabilitation and Repair
Department requests \$20,000 annually for 1964-65. Small projects to upgrade or repair all presently deficient parts of existing system, particularly downtown. Planning Commission recommends approval.
5. Lower Existing Mains, Airport Heights Area
Department requests \$30,000 for 1964. To protect mains from freezing. Will be performed concurrently with paving of streets. Planning Commission recommends approval.
6. A.M.U. Tie, Northern Lights to Eragaw
Department requests \$70,000 for 1965. To mitigate existing area of marginal pressure and forestall serious problem with further development of University Institutional complex. Immediate construction was 1962 consultant recommendation. For pressure to be adequate for domestic use, a well will also be needed for fire protection in 1966. Planning Commission recommends approval.
7. Well in Spenard
Department requests \$20,000 for 1965. Will mitigate generally marginal capacity in Spenard area, reduce head losses locally and in balance of system. (Most Spenard area supply is presently transmitted across entire width of City) Consultant recommends construction of two wells before 1970. Planning Commission recommends approval.

8. Miscellaneous Loop Ties Outside City
Department requests \$100,000 to be spent \$20,000 annually 1965-69. To be constructed as pressure needed with increased use. Many small projects. Planning Commission recommends approval.
9. Well in A.M.U. Area
Department requests \$20,000 for 1966. Consultant recommended immediate construction in 1962 report to provide adequate capacity to meet Board of Fire Underwriters' standard. Planning Commission recommends approval.
10. Auxiliary Power for Wells No. 1 through No. 5 and Two Others
Department requests \$20,000 for 1966 (1, 5); \$30,000 for 1967 (2, 3, 4) and \$20,000 for 1968, for two additional. Existing well pumps are electric powered, prone to failure in storm or attack. Board of Fire Underwriters will not count such wells in fire rating. Propose gasoline-driven auxiliary units for emergency use only. Planning Commission recommends approval.
11. Replace Main at East Anchorage High School
Department requests \$20,000 for 1966. Propose 12" main in place of existing 8" main along Bragaw Street in order to derive full benefit from A.M.U. tie. Planning Commission recommends approval.
12. Intake and Treatment Plant Improvements
Department requests \$40,000 for 1967.
(See #13 below)
13. Diversion of Campbell Creek to Treatment Plant
Department requests \$60,000 for 1967. Consultant recommends diversion of at least 3-million gallons per day from Campbell Creek to system prior to 1970. This will require modification of existing treatment plant. Planning Commission recommends approval.
14. Chugach School Area Upgrading
Department requests \$50,000 for 1968. Consultant recommends main replacements and loopings prior to 1970. Planning Commission recommends approval.
15. Boniface (South to DeBarr)
Department requests \$130,000 for 1968.
16. DeBarr (Boniface to Existing)
Department requests \$110,000 for 1969. This major loop to be first of a fork-like series of mains off Boniface to DeBarr, Northern Lights Boulevard and Tudor Road, to supply eastern parts of the City from east as well as north. This arrangement will greatly increase capacity, and reduce head losses which would otherwise occur in these areas and in much of the balance of the system with anticipated residential development. Planning Commission recommends approval.

TABLE III

1964-69 WATER UTILITY CAPITAL IMPROVEMENT PROGRAM

PROJECT	Project Cost	1964	1965	1966	1967	1968	1969	After 1969
1.Subdiv.& Improve't Dist.Extn's	600,000	100,000	100,000	100,000	100,000	100,000	100,000	
2.Misc.Loop Ties Within City	120,000	50,000	20,000	20,000	10,000	10,000	10,000	
3.New Meter Installations	50,000	50,000						
4.Rehabilitation & Repair	40,000	20,000	20,000*					
5.Lower Extg.Mains,Airport Hts.	30,000	30,000						
6.AMU Tie,N.Lights to Bragaw	70,000		70,000*					
7.Well, Spenard Area	20,000		20,000*					
8.Misc.Loop Ties Outside City	100,000		20,000*	20,000*	20,000 *	20,000 *	20,000 *	
9.Well, A.M.U. Area	20,000			20,000*				
10.Auxiliary Power for Wells	70,000			20,000*	30,000*	20,000*		
11.Replace Main,E.High School	20,000			20,000*				
12.Intake & Treatment Plant Improve.	40,000				40,000*			
13.Divert Campbell Creek	60,000				60,000*			
14.Chugach School Area Improvements	50,000					50,000*		
15.Boniface (S. to DeBarr)	130,000					130,000*		
16.DeBarr (Boniface to Existing)	110,000						110,000*	
*Depending upon experience with new rate schedule and availability of \$500,000 APW funds, it may prove feasible to accomplish these projects earlier. To the extent that this is so, further projects should be inserted in the program from the following list.								
17.15th & DeBarr Tie & PRV Station	120,000							120,000
18.Boniface(DeBarr to N.Lts.Blvd.)	130,000							130,000
19.N.Lts.Blvd.(Boniface to Bragaw)	120,000							120,000
20.Boniface(N.Lts.Blvd. to Tudor)	130,000							130,000
21.Tudor Rd. (Boniface to Bragaw)	130,000							130,000
22.Tudor Rd. (Bragaw to Lake Otis)	130,000							130,000
23.Tudor Rd. (Lake Otis to Seward Hy)	130,000							130,000
TOTAL		250,000	250,000	200,000	260,000	330,000	240,000	
Avail. For New Constr. & Renewal (May 1, 1963 Projection)		265,000	275,000	285,000	295,000	305,000+	315,000+	
+ Planning Dept. Estimate								