Preliminary Plant Estimate-

McKownville Water Revival Is Pegged at \$650,000

By STEPHEN GOLDSTEIN Gazette Reporter GUILDERLAND - Restor-

treatment plant to service would cost at least \$650,000, based on construction costs of

\$465,000 and other expenses involved. If this year's budget were to water tax for a McKownville ence with water plant construchome now assessed at \$4,000 tion. He also figured in

the current \$82.48, according to estimates. Some McKownville residents have said they want McKown-

as a backup water source. They also want to protect the water supply from further pollution that might be caused by the construction of the Cross-

ville's water supply to be ready

gates Mall or the widening of Western Avenue. Also on their minds is incorporating McKownville as a vil-

The McKownville Water District now buys its water from the adjacent Westmere Water District because the Albany County Health Department

ruled McKownville's water is not fit for human consumption. The county department also is opposed to resurrecting the McKownville water plant.

"These are preliminary figures, not a formal engineering study," said Dennis L. Tyson, the Town of Guilderland's superintendent of water and

wastewater management. McKownville Water District residents also would pay for any

engineering study, Tyson new piping, a contractor's ser-Most of the figures come

ing the McKownville water from the U.S. Environmental Protection Agency's report of August 1979, "Volume 3, Cost | ing.

Curves Applicable to 2,500 gpd

(gallons per day) to 1 mgd (mil-

lion gallons per day) Treatment Plants." Tyson added in other start paying for the project, the expenses based on his experi-

would be \$147.84 rather than inflationary effects on EPA's cost figures, which are based on 1978 dollars. The total reflects the esti-

mated cost of capital construction, initial operation and maintenance needs, necessary changes in existing piping and

vices, engineering and design, legal fees and administration and interest during construc-

tion prior to permanent financ-"If anything, I feel these figures are low," Tyson said yesterday, "because there are things I left out intentionally."

For example, his figures 'assume there's sufficient quality and quantity of water" for McKownville's needs and 'assume the Albany County Health Department would approve the plans." Yet testimony at the Cross-

gates Mall environmental hearing indicated the "safe yield" of the McKownville Reservoir has

Cost Breakdown

Details of the cost estimates for restoring

McKownville's water treatment plant follow. Dennis L. Tyson, superintendent of the Town of Guilderland Department of Water and Wastewater Management, provided the figures, based on U.S. **Environmental Protection** Agency estimates and his experience with water plant construction.

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quality problems caused by

lons per day would have cost \$193.920 in 1978. Because of potential water

would require a truck and pumps to move it from the water plant into the truck. These construction costs total \$398,150. Tyson added 8 percent to arrive at a 1979 cost of \$430,002 and another 8 percent to get a 1980 cost estimate of \$464,402.

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maintenance costs would total \$82,312.65, Tyson calculated, adding 5 percent inflation factors for the cost difference between 1978 and 1980.

Annual operating and

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been cut to less than 100,000 cost of removing it. "I didn't from more than 200,000 gallons allow credit for the existing per day in 1965 without the structure, and major refurbish-"upper reservoir," or Harring-ing of the existing building is assumed." ton's Pond.

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Because of potential water quality problems caused by nearby highways and traffic, Tyson figured in "package granular activated carbon columns," which the EPA says would have cost \$48,948 two years ago.

To remove taste and odor from the drinking water, add a potassium permanganate feed system at \$7,360.

A water plant also needs a polymer feed system at \$19,000 to increase filtering ability.

A system for gas chlorination of the water disinfects the final sludge product; it would have cost \$4,310 in 1978.

A "raw (untreated) water" pumping station with a of 350 gallons per sludge at the McKownville plant, Tyson said, hauling it to the Albany County Sewer District or somewhere else would require a truck and pumps to move it from the water plant into the truck.

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Annual operating and maintenance costs would total \$82,312.65, Tyson calculated, adding 5 percent inflation factors for the cost difference between 1978 and 1980.

He also figured 4 cents per kilowatt-hour for electricity, rather than the 3 cents EPA used in its figures, and 90 cents per gallon for diesel fuel rather than EPA's figure of 45 cents.

To the total construction cost of \$464,402, Tyson added \$15,000 for a standby power supply and \$20,000 for miscellaneous costs and new pipes. That brings the total cost to \$499,402.

Add \$50,000 for a contractor's overhead and profit, \$55,000 for engineering and design fees, \$30,000 for legal fees and administration and \$12,000 for interest during construction to get the final total of \$646,402.