

# CLINCHBURG DECENTRALIZED SEWER PROJECT

## TOWN OF SALTVILLE

### *MOUNT ROGERS Planning District*

#### Project Background

This community is densely populated and has small building lots and septic tank failures.

#### Proposed Facilities

The proposed facilities include 60 individual septic tank effluent gravity (STEG) systems, with roughly 6,000 linear feet of small diameter collection lines leading to a decentralized treatment facility. The treatment facility is proposed downstream from the old church building across the street from the community center. The proposed treatment is the AdvanTex AX100 treatment system and the high quality treated effluent will be disposed into the soil on the hill above the community center.

#### Project Costs

The preliminary probable project cost and annual operation and maintenance costs associated with the Clinchburg Decentralized Sewer Project are \$577,920 and \$14,400, respectively. These costs result in an approximate present worth of \$12,334 per equivalent connection.

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## PRELIMINARY PROBABLE PROJECT COST

### Construction Cost

3,600 L.F.	3-inch Sewer Line	\$10 /L.F.	\$36,000
1,200 L.F.	4-inch Sewer Line	\$14 /L.F.	\$16,800
1,000 L.F.	6-inch Sewer Line	\$18 /L.F.	\$18,000
60 EA.	STEG System	\$2,000 /EA.	\$120,000
4 EA.	Road Crossing	\$1,500 /EA.	\$6,000
12,000 GAL.	Treatment System	\$10 /GAL	\$120,000
12,000 GAL.	Disposal System	\$8 /GAL	\$96,000

Total Construction Cost \$412,800

### Related Cost

40 % Related Cost \$165,120

TOTAL PROJECT COST \$577,920

## OPERATION AND MAINTENANCE (O&M) COST

<u>CONN.</u>	<u>UNIT</u>	<u>DESCRIPTION</u>	<u>MONTHLY</u>	<u>ANNUALLY</u>
60 EA.		Routine Maint. & Monitoring	\$11.00	\$7,920
60 EA.		Pump Septic Tanks	\$2.50	\$1,800
60 EA.		Power & Telephone	\$4.00	\$2,880
60 EA.		Sampling	\$1.00	\$720
60 EA.		Breakdown Maintenance	\$1.50	\$1,080
		TOTAL O&M COST	<u>\$20.00</u>	<u>\$14,400</u>

PRESENT WORTH OF ANNUAL O&M COST (30 YEARS, 8%) \$162,112

TOTAL PROJECT PRESENT WORTH \$740,032

PRESENT WORTH PER CONNECTION (60 CONNECTIONS) \$12,334

