

DWS PROJECT DATA SHEET

Project Name: Hurley Projects (4)

County: Buchanan

Planning District: Cumberland Plateau

Utility Provider: Buchanan County PSA

Served by Public Water? No

Existing Conditions: The Environmental Health Manager from this District pointed out several locations where a community system is needed.

Proposed Project: Decentralized wastewater systems with onsite disposal are proposed. One proposed system, consisting of 20 homes, is located at mouth of Rocklick Creek near Big Rock. A second system with 15-20 homes is needed near junction of 645 and 745 and another at junction of 645 and 643. Both of these systems are located in the Pawpaw section of Hurley. Another system is needed in Straight Fork above the high school to serve 20-25 homes. It may be possible to install an effluent line and drain to the high school for treatment and disposal.

Existing WWTP:

Name =	n/a	
Design Flow =	n/a	MGD
Average Flow =	n/a	MGD
Receiving Stream =	Pawpaw Creek and Knox Creek	
Stream Classification =	Class II	
Impaired Stream	Yes	

Watershed or Adjacent Stream Name = Knox Creek Impaired Yes

Equivalent Customers Served: Residential = 75 Commercial = 0 Industrial = 0

Health Hazard: Untreated sewage is entering Knox Creek creating health hazards.

Construction Feasibility: These small systems should be fairly easy to construct, similar to water projects.

Growth Potential: The area has potential for residential growth.

Total Project Cost: \$854,000

Cost Per Connection: \$11,387

DWS PROJECT DATA SHEET

Project Name:	Greenbrier Projects (3)		
County:	Buchanan		
Planning District:	Cumberland Plateau		
Utility Provider:	Buchanan County PSA		
Served by Public Water?	Yes		
Existing Conditions	There are numerous straight pipe discharges into the Greenbrier Creek from these two communities. The pollution from these communities causes the river to be listed as impaired.		
Proposed Project	Three decentralized wastewater systems with onsite disposal are proposed. One proposed system, consisting of 20 homes, is located at mouth of Spruce Pine Branch near Lower Greenbrier school. A second system with 8 homes is located one mile up the same branch, while a third system is proposed at Painter Lick Branch. This system would serve about 15 homes.		
Existing WWTP:	Name =	n/a	
	Design Flow =	n/a	MGD
	Average Flow =	n/a	MGD
	Receiving Stream =	Greenbrier Creek	
	Stream Classification =	Class II	
	Impaired Stream	Yes	
Watershed or Adjacent Stream Name =	Russell Prater Creek	Impaired	Yes
Equivalent Customers Served:	Residential = 43	Commercial = 0	Industrial = 0
Health Hazard	Untreated sewage is entering the Greenbrier Creek creating health hazards.		
Construction Feasibility	These small systems should be fairly easy to construct.		
Growth Potential	The area has potential for residential growth.		
Total Project Cost	\$484,120		
Cost Per Connection	\$11,259		

DWS PROJECT DATA SHEET

Project Name:	McClure-Stratton Sewer Project		
County:	Dickenson		
Planning District:	Cumberland Plateau		
Utility Provider:	Dickenson County PSA		
Served by Public Water?	Yes		
Existing Conditions	There are numerous straight pipe discharges into the McClure River from these two communities. The pollution from these communities causes the river to be listed as impaired.		
Proposed Project	Three decentralized wastewater systems with onsite disposal are proposed. One system, consisting of 30 homes and businesses, could use the old tennis court area for disposal. A second system with 50-60 homes could possibly be located at the old Clinchfield Coal Co. warehouse area, while a third system would serve the 30 homes in the Stratton area.		
Existing WWTP:	Name =	n/a	
	Design Flow =	n/a	MGD
	Average Flow =	n/a	MGD
	Receiving Stream =	McClure River	
	Stream Classification =	Class II	
	Impaired Stream	Yes	
Watershed or Adjacent Stream Name =	Russell Fork of Big Sandy	Impaired	No
Equivalent Customers Served:	Residential = 110	Commercial = 0	Industrial = 0
Health Hazard	Untreated sewage is entering the McClure River creating health hazards.		
Construction Feasibility	This system should be fairly easy to construct, but a river crossing is required.		
Growth Potential	The area has potential for residential growth.		
Total Project Cost	\$1,230,000		
Cost Per Connection	\$11,182		

DWS PROJECT DATA SHEET

Project Name: Nora Sewer Project

County: Dickenson

Planning District: Cumberland Plateau

Utility Provider: Dickenson County PSA

Served by Public Water? Yes

Existing Conditions: There are several straight pipe discharges into the McClure from this community from some of the older structures.

Proposed Project: A decentralized wastewater system is proposed for this community, which has about 20 homes. Some of the newer homes has adequate onsite systems, but have been included in the house count. The abandoned property between the river and railroad is recommended for disposal site due to good percolation rate.

Existing WWTP:

Name =	n/a	
Design Flow =	n/a	MGD
Average Flow =	n/a	MGD
Receiving Stream =	McClure River	
Stream Classification =	Class II	
Impaired Stream	Yes	

Watershed or Adjacent Stream Name = Russell Fork of Big Sandy Impaired No

Equivalent Customers Served: Residential = 19 Commercial = 1 Industrial = 0

Health Hazard: Untreated sewage is entering the McClure River creating health hazards.

Construction Feasibility: This system should be fairly easy to construct, but a river crossing is required.

Growth Potential: The area has little potential for residential growth.

Total Project Cost: \$225,000

Cost Per Connection: \$11,250

DWS PROJECT DATA SHEET

Project Name: Falls Mills Sewer Project

County: Tazewell

Planning District: Cumberland Plateau

Utility Provider: Tazewell County PSA

Served by Public Water? Self-Help Project planned

Existing Conditions: The five homes in this area are located in narrow Neal Hollow, bound on the north by the Mercer County line and on the south by the N&S Railroad.

Proposed Project: A decentralized wastewater system is proposed for this small community. An interceptor tank will be installed at each home, and the effluent will be drained through a 2-inch diameter line to a recirculating blend tank and small plant for treatment. The treatment effluent would be discharged into the ground.

Existing WWTP:

Name =	n/a	
Design Flow =	n/a	MGD
Average Flow =	n/a	MGD
Receiving Stream =	Neal Creek	
Stream Classification =	Class IV	
Impaired Stream	No	

Watershed or Adjacent Stream Name = Blue Stone River Impaired Yes

Equivalent Customers Served: Residential = 5 Commercial = 0 Industrial = 0

Health Hazard: Inadequately treated sewage is entering Neal Creek creating health hazards.

Construction Feasibility: The steep terrain in this service area will pose difficulty in installing drip tubing.

Growth Potential: The area has little potential for residential growth.

Total Project Cost: \$51,800

Cost Per Connection: \$10,360

DWS PROJECT DATA SHEET

Project Name:	Morefield Bottom Sewer Project		
County:	Russell		
Planning District:	Cumberland Plateau		
Utility Provider:	Russell County Water & Sewage Authority		
Served by Public Water?	Yes		
Existing Conditions	The homes in this area are located along two streets and the houses are closely spaced. The lack of proper sewage facilities affects everyone in the community. This unsanitary conditions that exist in this small community should make it a prime candidate for public sewer system.		
Proposed Project	A decentralized wastewater system is proposed for this small community. An interceptor tank will be installed at each home, and the effluent will be drained or pumped through a small diameter line to a recirculating tank and plant for treatment. The treatment effluent would be discharged into the ground.		
Existing WWTP:	Name =	n/a	
	Design Flow =	n/a	MGD
	Average Flow =	n/a	MGD
	Receiving Stream =	Lick Creek	
	Stream Classification =	Class III	
	Impaired Stream	Yes	
Watershed or Adjacent Stream Name =	Clinch River	Impaired	No
Equivalent Customers Served:	Residential = 42	Commercial = 0	Industrial = 0
Health Hazard	Inadequately treated sewage is ponding in the neighborhood causing health hazards and odors. Residents are concerned as conditions worsen and drainage ditches have not been cleaned.		
Construction Feasibility	Limiting the service area to the homes southeast of the railroad tracks eliminates any RR crossing. Construction should be easily accomplished.		
Growth Potential	The area has little potential for residential growth.		
Total Project Cost	\$492,310		
Cost Per Connection	\$11,722		

DWS PROJECT DATA SHEET

Project Name:	Rosedale Sewer Project		
County:	Russell		
Planning District:	Cumberland Plateau		
Utility Provider:	Russell County Public Service Authority		
Served by Public Water?	No		
Existing Conditions	The Oaks is a subdivision located in Rosedale on the side of a hill. There are about 90 homes, with lots averaging roughly one acre in area. Public water is planned for the near future. Conventional onsite sewers are failing in this area.		
Proposed Project	A decentralized wastewater system is proposed for this community and for the Cross Creek Subdivision across Route 19. An interceptor tank will be installed at each home, and the effluent will be drained through a small diameter line to a recirculating tank and plant for treatment. Onsite disposal is proposed.		
Existing WWTP:	Name =	n/a	
	Design Flow =	n/a	MGD
	Average Flow =	n/a	MGD
	Receiving Stream =	Elk Garden Creek	
	Stream Classification =	Class III	
	Impaired Stream	No	
Watershed or Adjacent Stream Name =	Big Cedar Creek	Impaired	No
Equivalent Customers Served:	Residential = 100	Commercial = 0	Industrial = 0
Health Hazard	Septic tank drainfields are failing after a few years.		
Construction Feasibility	No problems are anticipated. The slope of the land should accommodate gravity sewers.		
Growth Potential	The area has potential for residential growth.		
Total Project Cost	\$1,100,000		
Cost Per Connection	\$11,000		

DWS PROJECT DATA SHEET

Project Name: Ewing Sewer Project

County: Lee

Planning District: Lenowisco

Utility Provider: Lee County PSA

Served by Public Water? Yes

Existing Conditions The soils in this section of the county are generally adequate for providing onsite treatment. However, a small cluster of homes needs a public sewer desperately. Some of these homes are located in the floodplain, while others are located on lots too small to support onsite treatment and disposal.

Proposed Project A small community treatment & disposal system is proposed. Water-tight interceptor tanks will be installed at each home or business location, and the liquid portion of the waste (called effluent) will be pumped to the treatment unit through a small diameter force main. These lines will be installed on public ROW.

Existing WWTP: Name = n/a
 Design Flow = n/a MGD
 Average Flow = n/a MGD
 Receiving Stream = Indian Creek
 Stream Classification = Class III
 Impaired Stream no

Watershed or Adjacent Stream Name = Indian Creek Watershed Impaired No

Equivalent Customers Served: Residential = 11 Commercial = 4 Industrial = 0

Health Hazard Raw and inadequately treated sewage is entering Indian Creek creating health hazards. Several homes located out of floodplain have had onsite systems installed already. Residents desire a reasonably priced solution to their problem.

Construction Feasibility Two or three potential treatment/disposal sites are conveniently located. Since much of the construction will be done in the floodplain, it should be conducted in as dry weather as possible. The Canaan Valley Institute has promised grant funding of \$100,000+\$20,000 for planning of a demonstration project at this site.

Growth Potential The area has some growth potential for residential and/or commercial purposes as two or three buildings located in the floodplain and currently used for storage could be converted into possibly six apartments or small businesses.

Total Project Cost \$213,500

Cost Per Connection \$14,233

DWS PROJECT DATA SHEET

Project Name:	Bishtown		
County:	Scott		
Planning District:	Lenowisco		
Utility Provider:	Scott County PSA		
Served by Public Water?	No		
Existing Conditions	The soils in this community are generally red clay loams, which provide good treatment. In some places, there is limestone near the surface and an occasional sinkhole to contend with in this large community. There has only been two requests for site evaluations in past 2 years; neither were refused and no known failures.		
Proposed Project	Individual onsite systems work well in this community. A DWS is not needed.		
Existing WWTP:	Name =	n/a	
	Design Flow =	n/a	MGD
	Average Flow =	n/a	MGD
	Receiving Stream =		Sinkholes
	Stream Classification =		n/a
	Impaired Stream		n/a
Watershed or Adjacent Stream Name =	Clinch River Watershed	Impaired	No
Equivalent Customers Served:	Residential =	75	Commercial = 0 Industrial = 0
Health Hazard	None reported by local VDH sanitarian. Conditions could worsen when public water becomes available.		
Construction Feasibility	Not Applicable.		
Growth Potential	The area has residential growth potential, but the people generally know which areas can accommodate onsite disposal.		
Total Project Cost	n/a		
Cost Per Connection	n/a		

DWS PROJECT DATA SHEET

Project Name:	Mill Creek		
County:	Scott		
Planning District:	Lenowisco		
Utility Provider:	Scott County PSA		
Served by Public Water?	No		
Existing Conditions	The soils in this community are very thin, generally ranging from 6" - 12" thick. Onsite disposal cannot be achieved in these thin soils. Outdoor toilets are common.		
Proposed Project	Neither individual onsite systems nor decentralized systems work well in thin soils. Decentralized systems often utilize point discharge for disposal, but this is not recommended for intermittent streams.		
Existing WWTP:	Name =	n/a	
	Design Flow =	n/a	MGD
	Average Flow =	n/a	MGD
	Receiving Stream =		Mill Creek
	Stream Classification =		Intermittent
	Impaired Stream		n/a
Watershed or Adjacent Stream Name =	Clinch River Watershed	Impaired	No
Equivalent Customers Served:	Residential = 15	Commercial = 0	Industrial = 0
Health Hazard	The local VDH sanitarian acknowledges that the springs used for water supply are contaminated. Pump-and-haul or compost toilets offer the most cost-effective solution.		
Construction Feasibility	The presence of limestone will make any type of collection system very expensive.		
Growth Potential	None. This area can not accommodate onsite disposal.		
Total Project Cost	n/a		
Cost Per Connection	n/a		

PROJECT DATA SHEET

Project Name:	Right Fork - Bold Camp Sewer Project		
County:	Wise		
Planning District:	Lenowisco		
Utility Provider:	Town of Pound		
Served by Public Water?	Yes		
Existing Conditions	There are 180 homes on the Right Fork (Mullins) of Bold Camp. Most homes in this service area are located close to the creeks and local health department officials estimate that 75% of the homes have straight pipe discharges or failing septic systems, as many of the systems are over 20 years old.		
Proposed Project	Effluent collection is proposed for this service area due to lack of space for locating a DWS. The effluent from the 80 homes outby the large wetlands will flow to the Pound STP for treatment and disposal. All 80 homes will utilize STEP systems. The Pound STP has sufficient to handle this extra capacity before reaching 80% design capacity. A septage handling facility is proposed for handling the septic tank sludge.		
Existing WWTP:	Name =	Pound STP	
	Design Flow =	0.50	MGD
	Average Flow =	0.35	MGD
	Receiving Stream =	Bold Camp Creek	
	Stream Classification =	Class III	
	Impaired Stream	No	
Watershed or Adjacent Stream Name =	Pound River	Impaired	Yes
Equivalent Customers Served:	Residential = 80	Commercial = 0	Industrial = 0
Health Hazard	Raw and inadequately treated sewage entering Bold Camp Creek has created health hazards. Recent flooding brought the situation to light.		
Construction Feasibility	The small diameter lines used with effluent sewers will be installed on the opposite side of the road from the water line. Construction should be fairly simple as our contractors are familiar with installing water lines in these areas. A septage handling facility is proposed near the present plant location.		
Growth Potential	The area has potential for residential growth.		
Total Project Costs	\$996,040		
Cost Per Connection	\$12,451		

DWS PROJECT DATA SHEET

Project Name:	Right Fork - Bold Camp Sewer Project		
County:	Wise		
Planning District:	Lenowisco		
Utility Provider:	Town of Pound		
Served by Public Water?	Yes		
Existing Conditions	There are 180 homes on the Right Fork (Mullins) of Bold Camp. Most homes in this service area are located close to the creeks and local health department officials estimate that 75% of the homes have straight pipe discharges or failing septic systems, as many of the systems are over 20 years old.		
Proposed Project	A decentralized wastewater system (DWS) serving the 100 homes above the large wetlands is proposed. The collection system will use small diameter lines which are more water-tight than conventional gravity sewers.		
Existing WWTP:	Name =	Pound STP	
	Design Flow =	0.50	MGD
	Average Flow =	0.35	MGD
	Receiving Stream =	Bold Camp Creek	
	Stream Classification =	Class III	
	Impaired Stream	No	
Watershed or Adjacent Stream Name =	Pound River	Impaired	Yes
Equivalent Customers Served:	Residential =	100	Commercial = 0 Industrial = 0
Health Hazard	Raw and inadequately treated sewage entering Bold Camp Creek has created health hazards. Recent flooding brought the situation to light.		
Construction Feasibility	Individual pump stations, called STEP units, will be required at many homes in this service area.		
Growth Potential	The area has potential for residential growth.		
Total Project Costs	\$1,124,600		
Cost Per Connection	\$11,246		

PROJECT DATA SHEET

Project Name:	Bold Camp Sewer Project - Phase II		
County:	Wise		
Planning District:	Lenowisco		
Utility Provider:	Town of Pound		
Served by Public Water?	Yes		
Existing Conditions	Most homes in the Meade Fork and Dotson Fork service area are located close to the creek and there are many system failures and straight pipe discharges.		
Proposed Project	Effluent collection is proposed for this service area. An Interceptor tank will be installed at each home, and the effluent will flow to the sewage treatment plant in Pound. Small diameter sewer lines, which are more water-tight than conventional gravity sewers, are proposed. A plant expansion or design will be necessary before this phase can be constructed.		
Existing WWTP:	Name =	Pound STP	
	Design Flow =	0.50	MGD
	Average Flow =	0.35	MGD
	Receiving Stream =	Bold Camp Creek	
	Stream Classification =	Class III	
	Impaired Stream	Yes	
Watershed or Adjacent Stream Name =	Pound River	Impaired	No
Equivalent Customers Served:	Residential = 213	Commercial = 0	Industrial = 0
Health Hazard	Raw and inadequately treated sewage entering Bold Camp Creek has created health hazards.		
Construction Feasibility	Individual pump stations, called STEP units, will be required at roughly 50% of homes in this phase of the project, while the effluent from the rest of the homes will gravity-flow to the STP. The Pound STP can be expanded by utilizing the property recently acquired by the Wise County PSA.		
Growth Potential	The area has potential for residential growth.		
Total Project Costs	\$2,743,715		
Cost Per Connection	\$12,881		

PROJECT DATA SHEET

Project Name:	Cranes Nest Sewer Project		
County:	Wise		
Planning District:	Lenowisco		
Utility Provider:	Town of Coeburn		
Served by Public Water?	Yes		
Existing Conditions	Tom's Creek is listed as an impaired stream with 15 - 20% of the pollutants derived from human wastes. The houses in this area are located along the highway, and are clustered tightly in some areas.		
Proposed Project	An effluent sewer system is proposed for this community. An interceptor tank will be installed at each home or business, and the effluent will be drained or pumped to the regional wastewater plant for treatment. Small diameter lines, which are more water-tight than conventional gravity sewers, will be used. The interceptor tanks must be pumped once every ten years.		
Existing WWTP:	Name =	C-N-W Regional Wastewater Treatment Plant	
	Design Flow =	4.00	MGD
	Average Flow =	3.13	MGD
	Receiving Stream =	Tom's Creek	
	Stream Classification =	Class III	
	Impaired Stream	Yes	
Watershed or Adjacent Stream Name =	Guest River	Impaired	No
Equivalent Customers Served:	Residential = 90	Commercial = 2	Industrial = 0
Health Hazard	Raw and inadequately treated sewage is entering Tom's Creek creating health hazards.		
Construction Feasibility	This service area contains several acres of wetlands formed by surfacing mining. These wetlands will require that sewer lines be laid along the roadways. In order to serve the 14 homes in the southern part of project area, a decentralized system is proposed to eliminate crossing the railroad track and river.		
Growth Potential	The area has potential for residential growth to the east, but active coal mining operations should postpone this growth for several years.		
Total Project Cost	\$1,036,596		
Cost Per Connection	\$11,267		

DWS PROJECT DATA SHEET

Project Name: **Cranes Nest Sewer Project**

County: **Wise**

Planning District: **Lenowisco**

Utility Provider: **Town of Coeburn**

Served by Public Water? **Yes**

Existing Conditions **Tom's Creek is listed as an impaired stream with 15 - 20% of the pollutants derived from human wastes. The houses in this area are located along the highway, and are clustered tightly in some areas.**

Proposed Project **There are fourteen (14) homes located across the river and railroad tracks that can be ideally served by a decentralized treatment system with onsite disposal.**

Existing WWTP:

Name =	C-N-W Regional Wastewater Treatment Plant	
Design Flow =	4.00	MGD
Average Flow =	3.13	MGD
Receiving Stream =	Tom's Creek	
Stream Classification =	Class III	
Impaired Stream	Yes	

Watershed or Adjacent Stream Name = **Guest River** Impaired **No**

Equivalent Customers Served: Residential = **14** Commercial = **0** Industrial = **0**

Health Hazard **Raw and inadequately treated sewage is entering Tom's Creek creating health hazards.**

Construction Feasibility **The construction of this project should be fairly simple using STEG system at each home.**

Growth Potential **The area has low potential for further residential growth.**

Total Project Cost **\$154,000**

Cost Per Connection **\$11,000**

DWS PROJECT DATA SHEET

Project Name: **Dunbar Sewer Project**

County: **Wise**

Planning District: **Lenowisco**

Utility Provider: **Wise County PSA**

Served by Public Water? **Yes - Decentralized Water System**

Existing Conditions **The soils found in this community are inadequate for providing onsite treatment. There are currently 40 homes in this community and the wastewater flows from the house to a makeshift septic tank where solids are settled and the effluent flows to the stream with no further treatment. Public sewer service is needed.**

Proposed Project **A decentralized wastewater system is proposed for this community. The effluent from the 10 homes at the lower end of the coal camp would be pumped to a treatment/disposal facility just below the main camp. The treated effluent would be disposed of through graveled trenches or drip irrigation.**

Existing WWTP: Name = **n/a**
 Design Flow = **n/a** MGD
 Average Flow = **n/a** MGD
 Receiving Stream = **Potcamp Fork**
 Stream Classification = **Class III**
 Impaired Stream **yes**

Watershed or Adjacent Stream Name = **Roaring Fork of Powell River** Impaired **No**

Equivalent Customers Served: Residential = **40** Commercial = **0** Industrial = **0**

Health Hazard **Inadequately treated sewage is entering Potcamp Fork creating a health hazard.**

Construction Feasibility **This former coal camp is ideally suited for a decentralized wastewater system. A new water system should be installed in this community during the next year.**

Growth Potential **The community has potential for 20% residential growth for a total of 48 homes.**

Total Project Cost **\$406,000**

Cost Per Connection **\$10,150**

DWS PROJECT DATA SHEET

Project Name:	Exeter Sewer Project		
County:	Wise		
Planning District:	Lenowisco		
Utility Provider:	Town of Appalachia		
Served by Public Water?	Yes		
Existing Conditions	<p>The soils in these two communities are inadequate for providing onsite treatment. There are currently 130 homes in the upper community and the wastewater flows from the house to a makeshift septic tank where solids are settled and the effluent receives no further treatment. It stands in some yards causing offensive odors. The lower community, consisting of 13 homes, also needs sewer service.</p>		
Proposed Project	<p>Separate decentralized wastewater systems are proposed for these communities. These two coal camp communities are located near the headwaters of Pigeon Creek and only 2.5 miles upstream from Imboden, where the first small community sewer system was built in Wise County. Installing sewer systems in these two communities would mean that all the heavily-clustered neighborhoods on this tributary of the Powell River were provided with public sewer service.</p>		
Existing WWTP:	Name =	n/a	
	Design Flow =	n/a	MGD
	Average Flow =	n/a	MGD
	Receiving Stream =	Pigeon Creek	
	Stream Classification =	Class III	
	Impaired Stream	yes	
Watershed or Adjacent Stream Name =	Powell River	Impaired	No
Equivalent Customers Served:	Residential =	143	Commercial =
		0	Industrial =
		0	0
Health Hazard	Inadequately treated sewage is entering Pigeon Creek creating a health hazard.		
Construction Feasibility	<p>These communities are ideally suited for decentralized wastewater systems as they are far removed from the Big Stone Gap Regional Wastewater Facility. Most of the collection lines are proposed along the streets of the community rather than along the busier main highway.</p>		
Growth Potential	These communities have only limited potential for residential growth.		
Total Project Cost	\$1,412,000		
Cost Per Connection	\$9,874		

DWS PROJECT DATA SHEET

Project Name:	Stephens Sewer Project		
County:	Wise		
Planning District:	Lenowisco		
Utility Provider:	Wise County PSA		
Served by Public Water?	Yes		
Existing Conditions	Sepulcher Creek is listed as an impaired stream for 2.6 miles in length. The houses in this area are located along the highway and railroad and are tightly clustered in some areas.		
Proposed Project	An effluent sewer system is proposed for this community. An interceptor tank will be installed at each home, and the effluent would flow to a decentralized treatment facility. The effluent would be disposed in the soil.		
Existing WWTP:	Name =	n/a	
	Design Flow =	n/a	MGD
	Average Flow =	n/a	MGD
	Receiving Stream =		Sepulcher Creek
	Stream Classification =		Class III
	Impaired Stream		Yes
Watershed or Adjacent Stream Name =	Guest River	Impaired	No
Equivalent Customers Served:	Residential = 200	Commercial = 0	Industrial = 0
Health Hazard	Raw and inadequately treated sewage is entering Sepulcher Creek polluting the stream.		
Construction Feasibility	This service area is divided by a railroad siding serving Glamorgan. Crossing the railroad will require several three or four permits. The effluent line will be laid along the roadway and pump systems will be required in most instances to pump across the hills to a treatment facility at the lower end of the community.		
Growth Potential	The residential growth potential in this area is low.		
Total Project Cost	\$2,667,000		
Cost Per Connection	\$13,335		

PROJECT DATA SHEET

Project Name: Fancy Gap

County: Carroll

Planning District: Mount Rogers

Utility Provider: None

Served by Public Water? No

Existing Conditions

Proposed Project
Two decentralized cluster systems are needed; one to serve the commercial and residential district along Route 683 and a second system to serve the area to the north along Route 52.

Existing WWTP:	Name =	None	
	Design Flow =	n/a	MGD
	Average Flow =	n/a	MGD
	Receiving Stream =	Unnamed	
	Stream Classification =	Class IV	
	Impaired Stream	No	

Watershed or Adjacent Stream Name =	New River	Impaired	No
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Equivalent Customers Served:	Residential =	60	Commercial =	30	Industrial =	0
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Health Hazard

Construction Feasibility
No problems anticipated

Growth Potential
Residential and commercial

Total Project Costs
\$1,379,700

Cost Per Connection
\$15,330

DWS PROJECT DATA SHEET

Project Name:	Troutdale		
County:	Grayson		
Planning District:	Mount Rogers		
Utility Provider:	Town of Troutdale		
Served by Public Water?	Yes		
Existing Conditions			
Proposed Project	This community can be served by two decentralized wastewater systems. The twenty homes on the west side of town could be served by one system, while rest of the community could be served by another.		
Existing WWTP:	Name =	n/a	
	Design Flow =	n/a	MGD
	Average Flow =	n/a	MGD
	Receiving Stream =	Unnamed	
	Stream Classification =	Class II	
	Impaired Stream	No	
Watershed or Adjacent Stream Name =	Fox Creek	Impaired	Yes
Equivalent Customers Served:	Residential = 75	Commercial = 5	Industrial = 0
Health Hazard			
Construction Feasibility	No problems anticipated.		
Growth Potential	Some residential and commercial growth can occur.		
Total Project Costs	\$843,500		
Cost Per Connection	\$10,544		

DWS PROJECT DATA SHEET

Project Name: Hutton Branch

County: Smyth

Planning District: Mount Rogers

Utility Provider: Smyth Co. BOS

Served by Public Water? Yes

Existing Conditions Health Department suspects straight pipes and failing septic systems. The upper section is well populated and there are several abandoned mobile homes.

Proposed Project A single decentralized treatment system would serve this community. The disposal could be a drip system on one of the the farms at the north end of the service area.

Existing WWTP:	Name = n/a		
	Design Flow =	n/a	MGD
	Average Flow =	n/a	MGD
	Receiving Stream =	Hutton Branch	
	Stream Classification =	Class III	
	Impaired Stream	No	

Watershed or Adjacent Stream Name =	Middle Fork Holston River	Impaired	Yes
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Equivalent Customers Served:	Residential = 90	Commercial = 0	Industrial = 0
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Health Hazard This rural community is likely contributing to the fecal coliform which is polluting the Middle Fork of the Holston River.

Construction Feasibility No problems anticipated.

Growth Potential Some residential

Total Project Costs \$1,048,740

Cost Per Connection \$11,653

DWS PROJECT DATA SHEET

Project Name:	St. Clair Creek		
County:	Smyth		
Planning District:	Mount Rogers		
Utility Provider:	Smyth Co. BOS		
Served by Public Water?	Yes		
Existing Conditions	There are straight pipes and failing septic systems in this area.		
Proposed Project	A decentralized system is proposed for this linear community. A collection system consisting of STEG/STEP units is proposed with the treatment system located at the abandoned stone building near the intersection of old Rte. 600 and 605. This effluent from the homes downstream of this location would be pumped to this plant location. A discharge point would probably be employed here.		
Existing WWTP:	Name =	n/a	
	Design Flow =	n/a	MGD
	Average Flow =	n/a	MGD
	Receiving Stream =	St. Clair Creek	
	Stream Classification =	Class III	
	Impaired Stream	No	
Watershed or Adjacent Stream Name =	South Fork South Holston River	Impaired	Yes
Equivalent Customers Served:	Residential = 145	Commercial = 5	Industrial = 0
Health Hazard	Health Department Environmentalists are concerned about the straight pipes.		
Construction Feasibility	Construction should be fairly simple with collections lines laid along roadway.		
Growth Potential	Good. Land is available for new subdivisions similar to McClure Estates.		
Total Project Costs	\$1,482,600		
Cost Per Connection	\$9,884		

DWS PROJECT DATA SHEET

Project Name:	Sugar Grove		
County:	Smyth		
Planning District:	Mount Rogers		
Utility Provider:	Rye Valley Water Authority		
Served by Public Water?	Yes		
Existing Conditions	There is a concentration of houses and mobile home parks along Flat Ridge Road. 10-20 straight pipes are estimated. Stream is dry during summer months.		
Proposed Project	Flat Ridge to the east of Rt. 16 and the unsewered area on the west of Rt. 16 could be combined into one decentralized system with treatment located near fire hall with disposal nearby. A second DWS could be located on Slemp Creek to treat the effluent from 25 homes.		
Existing WWTP:	Name =	n/a	
	Design Flow =	n/a	MGD
	Average Flow =	n/a	MGD
	Receiving Stream =	Cressy Creek & Quarter Branch	
	Stream Classification =	Class III	
	Impaired Stream	No	
Watershed or Adjacent Stream Name =	South Fork Holston River	Impaired	Yes
Equivalent Customers Served:	Residential = 170	Commercial = 0	Industrial = 0
Health Hazard	A watershed group is trying to determine whether the fecal coliform in this section of South Fork of Holston River is human or animal. Density of homes along Flat Ridge would indicate probably septic system problems.		
Construction Feasibility	None anticipated		
Growth Potential	Yes		
Total Project Costs	\$1,960,420		
Cost Per Connection	\$11,532		

PROJECT DATA SHEET

Project Name:	Walker Creek		
County:	Smyth		
Planning District:	Mount Rogers		
Utility Provider:	Smyth Co. BOS		
Served by Public Water?	Yes		
Existing Conditions	Straight pipes and failing septic tanks located along Rte.617.		
Proposed Project	An effluent sewer extension from Chilhowie is proposed for 25 homes on Rte. 638.		
Existing WWTP:	Name =	n/a	
	Design Flow =	n/a	MGD
	Average Flow =	n/a	MGD
	Receiving Stream =	Unnamed	
	Stream Classification =	Class II	
	Impaired Stream	No	
Watershed or Adjacent Stream Name =	Middle Fork Holston River	Impaired	Yes
Equivalent Customers Served:	Residential = 25	Commercial = 0	Industrial = 0
Health Hazard	Straight pipes and failing septic systems		
Construction Feasibility	No major problems		
Growth Potential	Some residential		
Total Project Costs	\$288,425		
Cost Per Connection	\$11,537		

DWS PROJECT DATA SHEET

Project Name:	Walker Creek		
County:	Smyth		
Planning District:	Mount Rogers		
Utility Provider:	Smyth Co. BOS		
Served by Public Water?	Yes		
Existing Conditions	Straight pipes and failing septic tanks along Rte.617.		
Proposed Project	<p>This project area can be served by 4 decentralized cluster systems. #1 -140 homes near the confluence of Cleghorn Valley Creek and Carlock Creek; #2 -70 homes near intersection of Rte. 637 & 638 on Carlock Creek; #3 - 60 homes on the West Fork of Walker Fork; and #4 - 30 homes on Walker Creek.</p> <p>An effluent sewer extension from Chilhowie is proposed for 25 homes on Rte. 638.</p>		
Existing WWTP:	Name =	n/a	
	Design Flow =	n/a	MGD
	Average Flow =	n/a	MGD
	Receiving Stream =	Listed above	
	Stream Classification =	Class II	
	Impaired Stream	No	
Watershed or Adjacent Stream Name =	Middle Fork Holston River	Impaired	Yes
Equivalent Customers Served:	Residential = 295	Commercial = 5	Industrial = 0
Health Hazard	Straight pipes and failing septic systems		
Construction Feasibility	No major problems anticipated		
Growth Potential	Some residential		
Total Project Costs	\$3,472,000		
Cost Per Connection	\$11,573		

DWS PROJECT DATA SHEET

Project Name:	Clinchburg		
County:	Washington		
Planning District:	Mount Rogers		
Utility Provider:	Town of Saltville		
Served by Public Water?	Yes		
Existing Conditions	Densely populated community with small lots and septic tank failures.		
Proposed Project	A decentralized wastewater system is proposed for this community. The land slopes to the northeast and can accommodate septic tank effluent gravity (STEG) collection. The treatment system and disposal area are proposed in bottom land east of the Community Center along Route 745.		
Existing WWTP:	Name =	n/a	
	Design Flow =	n/a	MGD
	Average Flow =	n/a	MGD
	Receiving Stream =	Stonemill Creek	
	Stream Classification =	Class III	
	Impaired Stream	No	
Watershed or Adjacent Stream Name =	North Fork of Holston River	Impaired	Yes
Equivalent Customers Served:	Residential = 60	Commercial = 0	Industrial = 0
Health Hazard	Failing septic tanks present an area of concern.		
Construction Feasibility	STEG collection with line on each street should make for a relatively inexpensive construction project.		
Growth Potential	Low		
Total Project Costs	\$569,520		
Cost Per Connection	\$9,492		

DWS PROJECT DATA SHEET

Project Name:	Rush Creek		
County:	Washington		
Planning District:	Mount Rogers		
Utility Provider:	Washington County Service Authority		
Served by Public Water?	Yes		
Existing Conditions	Shallow soil depth is a problem, resulting in septic system failure.		
Proposed Project	A decentralized wastewater system is proposed for this area, consisting of a combination septic tank effluent gravity (STEG) and septic tank effluent pumping (STEP) systems serving the homes along State Route 733. A treatment facility is proposed near the confluence of Rush Creek and South Fork Holston River, with a discharge point to the river probably required.		
Existing WWTP:	Name =	n/a	
	Design Flow =	n/a	MGD
	Average Flow =	n/a	MGD
	Receiving Stream =	Rush Creek	
	Stream Classification =	Class III	
	Impaired Stream	No	
Watershed or Adjacent Stream Name =	South Fork of Holston River	Impaired	Yes
Equivalent Customers Served:	Residential =	30	Commercial = 0 Industrial = 0
Health Hazard	Inadequately treated sewage from failing septic systems is a health hazard to residents along Rush Creek.		
Construction Feasibility	No unusual problems anticipated.		
Growth Potential	Low		
Total Project Costs	\$401,800		
Cost Per Connection	\$13,393		

PROJECT DATA SHEET

Project Name:	Ivanhoe		
County:	Wythe		
Planning District:	Mount Rogers		
Utility Provider:	Wythe County BOS		
Served by Public Water?	Yes		
Existing Conditions			
Proposed Project	A decentralized wastewater system is proposed, consisting of approximately 12,500 feet of 3" and 4" effluent sewers, with a treatment system located in the lower end of the community. A discharge system will probably be required, due to the lack of a suitable disposal area.		
Existing WWTP:	Name =	None	
	Design Flow =	n/a	MGD
	Average Flow =	n/a	MGD
	Receiving Stream =	Unnamed	
	Stream Classification =	Class III	
	Impaired Stream	No	
Watershed or Adjacent Stream Name =	New River	Impaired	No
Equivalent Customers Served:	Residential = 90	Commercial = 0	Industrial = 0
Health Hazard			
Construction Feasibility	No problems anticipated		
Growth Potential	Limited residential		
Total Project Costs	\$931,000		
Cost Per Connection	\$10,344		