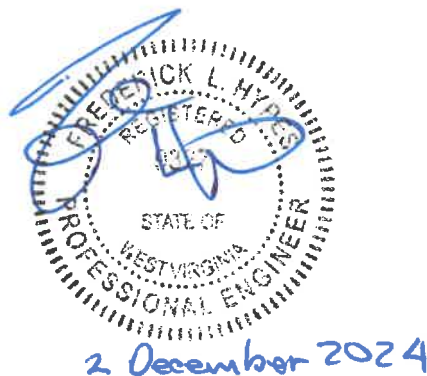




FACILITIES PLAN
FOR THE
TOWN OF ANSTED
FAYETTE COUNTY, WEST VIRGINIA

**PHASE 2: EXISTING WASTEWATER TREATMENT
PLANT UPGRADE**



MAY 2023
REVISED NOVEMBER 2024

THRASHER PROJECT # D10-11008 (formerly DUNN No.2208)

WV IJDC #2023S-2375

SRF # C544584

**FACILITIES PLAN
FOR THE
TOWN OF ANSTED
FAYETTE COUNTY, WEST VIRGINIA
EXISTING WASTEWATER TREATMENT PLANT UPGRADE**

INDEX

	<u>PAGE</u>
I. INTRODUCTION	1
II. CURRENT SITUATION	1
A. DISCHARGE	1
B. CUSTOMERS	1
C. SEWAGE COLLECTION SYSTEM	2
D. SEWAGE TREATMENT PLANT	3
E. UNSERVED AREAS	7
F. NEED FOR PROJECT	8
G. EXISTING PERMITS / CERTIFICATES	8
H. OPERATORS	8
III. FUTURE SITUATION	9
A. POPULATION PROJECTIONS	9
B. FLOW PROJECTIONS	9
C. WASTELOAD ALLOCATION	10
D. PERMITS / CERTIFICATES REQUIRED	10
IV. ALTERNATIVES	10
OPTION 1 – UPGRADE EXISTING WWTP W/NEW AQUA-PRIME DISK FILTER AND (2) ADDITIONAL CLARIFIERS	11
OPTION 2 – CONSTRUCT NEW WWTP UPSTREAM OF PS #1	13
OPTION 3 – CONVERT EXISTING WWTP TO SBR PROCESS AND EXPAND CAPACITY TO 500,000 GPD	15
OPTION 4 – CONSOLIDATION WITH OTHER UTILITIES	17
OPTION 5 – NO ACTION	17
V. PLAN SELECTION AND PUBLIC PARTICIPATION	18
A. PLAN SELECTION	18
B. NON-MONETARY FACTORS	18
B. PUBLIC PARTICIPATION	19
VI. ENVIRONMENTAL INFORMATION	19
A. GENERAL	19
B. ARCHAEOLOGICAL AND HISTORICAL	19
C. ENDANGERED SPECIES	19
D. WETLANDS	20
E. UNAVOIDABLE ADVERSE IMPACTS OF THE PROJECT	20

F.	FLOOD ELEVATIONS AND FLOOD PLAINS	20
G.	POTENTIAL REACTIONS TO OPEN SPACE OPPORTUNITIES	20
H.	RELATIONSHIP BETWEEN LOCAL SHORT-TERM USES AND LONG-TERM PRODUCTIVITY	20
I.	IRREVERSIBLE AND IRRETRIEVABLE COMMITMENT OF RESOURCES	21
J.	NOISE, ODOR, DUST AND AIR POLLUTION	21
K.	GROUNDWATER AND PUBLIC WATER SUPPLY	21
L.	LAND USE	21
M.	MITIGATIVE MEASURES	21
N.	EFFICIENT USE OF ENERGY AND RESOURCES	22
O.	STATEMENT REGARDING LAND AVAILABILITY	22
VII.	PROJECT SUMMARIES	22
A.	ENGINEERING SUMMARY	22
B.	COST SUMMARY	23
C.	PROJECT SCHEDULE	25
D.	LANDS AND RIGHTS-OF-WAY	26
E.	POUBLIC HEALTH BENEFITS	26
VIII.	CONCLUSIONS AND RECOMMENDATIONS	26
A.	CONCLUSIONS	26
B.	RECOMMENDATIONS	27

APPENDICES

A	MAPS
B	SCHEMATIC OF EXISTING ANSTED SEWAGE TREATMENT PLANT
C	SCHEMATICS OF SEWGE TREATMNT PLANT UPGRADE
D	PHOTOGRAPHS
E	WV NPDES PERMIT NO. WV0020672
F	ENVIRONMENTAL CORRESPONDENCE
G	DMR SUMMARY - WASTEWATER TREATMENT PLANT DATA (JAN 2022 – FEB 2024)
H	WV DEP ORDER NO. 8839
I	EXISTING TARIFF
J	§ 5-G INFORMATION
K	AQUA “PRIME” FILTER MANUFACTURER’S LITERATURE
L	PUBLIC MEETING MINUTES
M	POPULATION DATA FOR 2024 (ESTIMATES / US CENSUS)
N	COST ESTIMATES / BUDGETS
O	FY 2024 PSC ANNUAL REPORT [SELECT PAGES]
P	WV IJDC FUNDING RECOMMENDATION LETTER – 08-04-2023

**FACILITIES PLAN
FOR THE
TOWN OF ANSTED
FAYETTE COUNTY, WEST VIRGINIA
EXISTING WASTEWATER TREATMENT PLANT UPGRADE**

I. INTRODUCTION

The Town of Ansted is located on the north side of the New River in Fayette County, West Virginia. Settlements in the area pre-date 1800, and the Town (originally chartered as New Haven) dates to 1831. Sanitary sewers and a wastewater treatment plant in Ansted, which the Town owns and operates, were originally constructed in the 1960s and have been updated and expanded several times since then; they currently serve 582 customers. Due to the age of the facilities, much of the wastewater system (portions of the gravity sewers, the pumping equipment and controls, and the treatment facility) are outdated, failing mechanically and need to be replaced; the WV Department of Environmental Protection has also cited the Town for a number of violations of their WV NPDES Permit and has issued Order 8839 to compel compliance with permit conditions. A map of the existing sewer system can be found in Appendix A.

The Town is currently completing a complete overhaul of its sewage pumping stations and is also designing a repair project for its gravity sewer network. Decisions concerning the upgraded capacity of the existing wastewater treatment plant, however, still need to be made.

II. CURRENT SITUATION

A. DISCHARGE

The gravity sewer system in Ansted discharges to the wastewater treatment plant. The wastewater treatment plant discharges directly to Mill Creek, which then flows approximately one mile into the New River. Mill Creek is on the 303d list for fecal coliform, and the WV Department of Environmental Protection designates it as Group D for agriculture and wildlife. A copy of the NPDES Permit can be found in Appendix E.

B. CUSTOMERS

The system currently serves 662 residential and commercial customers. The FY2024 Public Service Commission Annual Report for Ansted's sewer system lists customers only as residential. However, several

existing customers contribute a significant amount toward the overall gallons treated. Namely, the Hawks Nest Lodge contributes 1,806,200 gallons per year, the Genesis Healthcare nursing home facility contributes 1,583,500 gallons per year, the Ansted Elementary School contributes 312,300 gallons per year, and the Midland Trail Community Center contributes 70,000 gallons per year. Assuming an average customer usage of 3,400 gallons per month, that gives Ansted an equivalent residential customer count of 765 customers. This number originates from the listed 662 customers, with four of those customers contributing a total of 104 additional residential equivalents based on the assumed 3,400 gallon usage.

C. SEWAGE COLLECTION SYSTEM

The initial collection system was constructed in the 1960s and has been updated and expanded since that time. The system was last updated in 2000 by slip-lining selected gravity sewer mains and by replacing antiquated pneumatic pumping equipment and controls with submersible pumps. The gravity sewers are still plagued with significant quantities of infiltration and inflow (approximately 77% of the influent flow, on average, is extraneous water).

The system was smoke tested in 2019 – 2020, and a sewer repair/replacement and separation project is currently being designed (much of the “downtown” area is served by a combined sewer system). The pumping stations, which had reached the end of their useful lives, are currently being replaced or refurbished, and the Town has purchased, as part of the pumping station upgrade project, a portable sewer jetter, a portable pump, a trailer-mounted sewer vacuum and a fully equipped service truck to maintain the entire collection system. A mini excavator and trailer have also been purchased, and the Town (with its own funds) has constructed a new garage to house its new maintenance equipment.

**TABLE 1
TOWN OF ANSTED
EXISTING COLLECITON SYSTEM**

Item	Quantity	Unit
6-inch Gravity Sewer	2,100	LF
8-inch Gravity Sewer	56,000	LF
10-inch Gravity Sewer	2,100	LF
Manholes	351	EA
Submersible Sewage Pumping Stations	8	EA
4-inch Force Mains	6,300	LF

Pump Stations 1 and 2, which are the largest in the system, have recently been replaced, with Pump Station 1 being moved to avoid chronic flooding problems. Both stations are equipped with emergency generators and new telemetry equipment.

Pump stations 3 – 8 are being upgraded with new pumps and controls and telemetry equipment, and an emergency generator has been installed at Pump Station 3. Transfer switches, to enable emergency generators to be utilized, have also been installed at Pump Stations 4 – 8.

**TABLE 2
TOWN OF ANSTED
PUMPING STATIONS**

Pump Station	Wet Well Diameter (ft.)	Flow Capacity (gpm)
1	5	-
2	5	-
3	5	120
4	5	170
5	5	150
6	5	150
7	5	110
8	5	170

The locations of the pumping stations are shown on the map in Appendix A. Photographs of the stations are shown in Appendix D.

D. SEWAGE TREATMENT PLANT

The sewage treatment plant was designed and constructed in the 1960s to treat an average daily flow of 230,000 gpd and a peak daily flow of 460,000 gpd. It is located south of Ansted on a small bench above Mill Creek and is bounded by the creek and large rock cliffs; there is no room for expansion beyond the existing site because of the proximity of the cliffs and creek.

Flows are pumped to the plant by Pump Stations 1 and 2 at a maximum rate of approximately 1 MGD (700 gpm). The site is above the 100-year flood elevation of Mill Creek and was not impacted by the 2016 flood.

The plant consists of the following components:

- ☐ Mechanical Bar Screen
- ☐ Grit Removal Unit
- ☐ 2 rectangular, 115,000-gallon Aeration Basins
- ☐ 2 rectangular 323 sq. ft. Secondary Clarifiers
- ☐ 4,800-gallon Chlorine Contact Tank
- ☐ 40,000-gallon Aerated Sludge Holding Tank
- ☐ 0.7m Belt Filter Press
- ☐ Cascade Aerator
- ☐ Lab and Belt Press Building
- ☐ Emergency Generator

A schematic of the existing plant is shown in Appendix B, and photographs are shown in Appendix D. The individual components are further described in the following paragraphs.

1. Mechanical Bar Screen

The mechanical bar screen was installed during the 2000 upgrade project and is in good condition. The machine was manufactured by Arlat Technologies and has ½ inch clear openings between the bars.

2. Grit Removal

Grit is removed by a 1 MGD vortex-type unit; grit is dewatered by a gravity screen and accumulated in a small container. The unit is badly worn and has become unreliable; it needs to be replaced.

3. Aeration Basins

Screened and degritted wastewater is biologically treated in two rectangular concrete basins, each of which has a volume of 115,000 gallons and is 15 feet deep. Air is supplied through stainless steel piping and “snap cap” fine bubble diffusers; three 20 hp positive displacement blowers provide the air to the basins.

The concrete basins are in good condition, as is the aeration piping and diffusers. The three blowers, two of which were replaced in 2000, are worn and need to be replaced. The basin volumes and aeration capacity are sufficient to treat substantially greater average daily flows than the current design flow of 230,000 gpd.

4. Secondary Clarifiers

Treated sewage flows from the aeration basins to two rectangular concrete secondary clarifiers that each have a surface area of 323 square feet. The flights, chains, drive gears and motors were replaced in 2000, but are currently in poor mechanical condition and need to be replaced. The equipment in one of the clarifiers was badly damaged by ice in January 2018. The concrete is in good condition, however. Sludge is pumped from the clarifiers to either the aeration basins or the aerated sludge holding tank by a submersible pump (one per clarifier).

Because of their limited size, the existing clarifiers can only reliably remove solids for flows between 450,000 and 500,000 gpd. Since peak flow rates during rainfall and snowmelt events can exceed 1,000,000 gpd (700 gpm), additional clarification capacity must be constructed if the plant is to reliably meet the required discharge limits.

5. Chlorine Contact Tank / Chlorination System

The existing chlorine contact tank is constructed of cast-in-place concrete and has a volume of 4,800 gallons. This volume provides 30 minutes of detention time at the rated average daily flow of 230,000 gpd, and 15 minutes at the rated peak daily flow of 460,000 gpd. Chlorine is supplied by 150-pound gas cylinders and vacuum chlorinators; sulfur dioxide gas is used to remove chlorine from the treated effluent.

The existing contact tank is in good condition but is substantially undersized for the flows currently being received. The chlorine room lacks proper ventilation equipment or a chlorine monitoring system and poses a very significant risk of injury or death to the operators; there is also none of the required safety equipment available to plant personnel should a chlorine leak occur. The existing system and building are in poor condition and should be scrapped; if chlorine continues to be used for disinfection, a new, stand-alone, prefabricated fiberglass chlorine building should be installed. A chlorine alarm should also be installed.

6. Sludge Holding Tank and Belt Press

Waste activated sludge is stabilized in a 40,600-gallon aerated holding tank and dewatered by a 0.7m Rodiger belt filter press; both were installed in 2000 and are in excellent condition. The tank is an above-ground, glass-fused-to-steel tank. It is equipped with a telescope valve for decanting supernatant and with a stainless steel, coarse bubble aeration system; air is supplied by two 15 hp positive displacement blowers. Supernatant

is pumped to the head of the plant by a small duplex submersible pump station; it is in good condition. Regarding sludge disposal, sludge is sent to a local farm or to the Raleigh County landfill. Because of their age, the digester blowers should be replaced.

7. Miscellaneous

The buildings at the plant are generally in serviceable condition but need to be refurbished (they need to be painted, the roofs need to be replaced, as does the HVAC equipment). The electrical controls are aging and should be replaced (as should the effluent flow meter). The current generator is in reasonably good condition but is more than 20 years old and needs to be replaced.

During the 2000 upgrade, the clarifier flights and chains and the existing bar screen were replaced, and the aerated sludge holding tank, belt filter press and emergency generator were installed. While the existing plant provides adequate treatment during average flow periods, it is unable to reliably treat high flows because solids are lost from the clarifiers. The plant is currently violating its WV NPDES permit limit for flow (230,000 gpd); during the 13-month period between February 2022 and February 2023, plant flows exceeded 100% of its permitted average daily flow twelve times, with flows averaging 306,000 gpd. Accepting additional flows from outlying areas will overload the plant both hydraulically and organically, and the WV DEP will likely not allow additional sewage to be sent to the plant until its capacity has been increased. Schematic for the existing treatment plant can be found in Appendix B, with Appendix G showing plant performance. Photographs of the facility are shown in Appendix D.

The effluent standards for the plant are as follows:

- BOD₅ 30 mg/ℓ
- Suspended Solids 30 mg/ℓ
- Fecal Coliform 200 / 100 mℓ
- pH 6 to 9
- Ammonia Nitrogen (Summer) 6.84 mg/ℓ
- Ammonia Nitrogen (Winter) 13.73 mg/ℓ

8. Maintenance

The existing maintenance costs from the FY 2022 PSC Annual Report totals \$252,026 and can be found in Table 3 on the following page.

TABLE 3
CURRENT MAINTENANCE COSTS

Item Description	Annual Costs
Salaries	\$82,694
Purchased Power (Treatment and Pumping)	\$34,101
Materials and Supplies (Treatment and Collection)	\$48,129
Employee Pensions and Benefits (Administration)	\$31,201
Materials and Supplies (Administration / General)	\$40,640
Miscellaneous Expenses (Administration / General)	\$15,261
TOTAL	\$252,026

E. UNSERVED AREAS

Ansted's sewer system currently serves customers within the municipal boundaries of the Town. Several adjacent and nearby areas along U.S. Route 60, Chestnutburg Road (including Ames Heights), and tributaries of the New River (Turkey Creek, Shade Creek, and Mill Creek) have concentrations of homes and businesses that currently rely upon inadequate on-lot sewage treatment systems or on small package treatment plants that are not meeting current treatment requirements.

Approximately 400 existing homes and businesses that could generate up to 75,000 gpd of domestic sewage are located in the above-mentioned areas, all of which drain into creeks that flow into the New River upstream of Hawks Nest State Park. Areas for potential economic growth, including those in Ames Heights, the Adventures on the Gorge resort, and the junction of U.S. Routes 19 and 60 at Hico, currently lack sufficient sewage treatment facilities to support new or expanded development (see map in Appendix A).

Preliminary planning for extending sewer service to all of the areas shown on the map has been completed but has not been included in this report. Given the coal industry's dramatic contraction recently in Fayette County and southern West Virginia in general, providing enhanced opportunities for development in this area is critical to maintaining Ansted's (and Fayette County's) economic viability.

Once the existing sewage collection and treatment facilities have been upgraded, the opportunities for extending sewer service to these areas will be studied further.

F. NEED FOR THE PROJECT

The Town of Ansted is plagued with various problems within its wastewater collection and treatment system and the WV Department of Environmental Protection (WV DEP) has issued Order No. 8839 that demands that those problems be corrected.

The gravity sewers currently experience excessive infiltration / inflow that accounts for up to 77% of treated flows. Infiltration of this magnitude is excessive and will be addressed by the sewer repair project that is currently being designed.

The wastewater treatment plant is significantly undersized hydraulically, especially during peak flow events, and much of the existing equipment is worn, is too small for its intended purpose, or has exceeded its useful life.

Without these upgrades, the Town will continue to fail to meet its WV NPDES permit requirements and will receive further fines from the WV DEP for violations of its permit.

Costs for labor and equipment replacement will also continue to increase without significant upgrades being made.

Additionally, improvements to the system will allow for greater overall health benefits to the public, thanks to providing more dependable and efficient wastewater collection and treatment.

G. EXISTING PERMITS / CERTIFICATES

The Town of Ansted currently operates under WV NPDES Permit No. WV0020672.

H. OPERATORS

The Town of Ansted's wastewater collection system is operated by a Class 2 wastewater operator.

- Harold W. Columber.....Chief Plant Operator.....License # WVOP31011

III. FUTURE SITUATION

A. POPULATION PROJECTIONS

The population of Ansted has declined steadily since 1980. While the Town saw significant growth before then, it has since decreased for every census survey and is unlikely that significant population increases will occur in the near future. Detailed information on population data from the U.S. Census can be seen in Table 4.

TABLE 4
TOWN OF ANSTED - POPULATION DATA 1900 – 2023

Year	Population	Percent Change
1900	1,090	-
1910	1,030	-5.5
1920	1,178	14.40
1930	1,404	19.20
1940	1,422	1.30
1950	1,543	8.50
1960	1,511	-2.1
1970	1,511	0.00
1980	1,952	29.20
1990	1,643	-15.8
2000	1,576	-4.1
2010	1,404	-10.9
2020	1,301	-7.3
2024	1,258	-3.3

Source: U.S. Census Bureau (Estimated 2024 data in Appendix M)

B. FLOW PROJECTIONS

The proposed project will be limited to the upgrade of the existing wastewater treatment plant. While no additional customers will be added to the collection system with this project, organic loadings would increase if sewer service were extended along Chestnutburg Rd. and U.S. Rt. 60, as would domestic sewage quantities. The current hydraulic capacity of the wastewater treatment facility will, in any event, need to be increased to 350,000 gpd (ADF) to meet its WV NPDES limits, and to 500,000 gpd (ADF) to accept additional flows from outlying areas.

C. WASTELOAD ALLOCATION

A wasteload allocation is required because the wastewater treatment capacity will be increased from an average daily sewage flow of 230,000 gallons per day (with a peak daily flow of 460,000 gpd) to an average daily capacity of 500,000 (with a peak capacity of 2,000,00 gpd). A wasteload allocation application has been sent to the WV Department of Environmental Protection.

D. PERMITS / CERTIFICATES REQUIRED

The required permits / certificates for the proposed project are listed below.

- WV Department of Environmental Protection NPDES Permit Modification
- Public Service Commission of West Virginia

IV. ALTERNATIVES

Flows received at the sewage treatment plant during the past year have averaged 33% more than design capacity of 230,000 gpd (and more than 20% more than the permitted design capacity for the past seven years), with daily peaks of over 900,000 gpd having been treated. The facility is undersized for existing sewage flows (especially the clarifiers and chlorine contact tanks), and expansion is necessary to meet WV NPDES permit requirements and to allow flows from additional customers in surrounding areas to be accepted in the future. Several alternatives were evaluated to address the issues at the treatment plant, including:

1. Upgrade existing wastewater treatment plant with Aqua-Prime disk filter and two (2) additional clarifiers, and expand capacity to 350,000 gpd
2. Construct new 350,000 gpd wastewater treatment plant upstream of Pump Station No. 1
3. Convert existing wastewater treatment plant to the Sequencing Batch Reactor process and expand capacity to 500,000 gpd
4. Consolidate with other utilities
5. "No Action"

Two of the alternatives would increase the capacity of the plant from 230,000 gpd to 350,000 gpd, while one (#3) would increase the capacity to 500,000 gpd. Because of the very limited space that is available at both the existing site and the upstream site, it will be impossible to upgrade the facility in two phases (first to 350,000 gpd and then to 500,000 gpd) to accommodate sewer extensions to Hico and to the New River Gorge Bridge.

OPTION 1 – Upgrade Existing Wastewater Treatment Plant with New Aqua-Prime Disk Filter and Two (2) Additional Clarifiers

This alternative would increase the capacity of the existing treatment plant to 350,000 gpd (ADF) and would involve the construction of two new secondary clarifiers and the installation of an Aqua Aerobics “Aqua Prime” Disk Filter. The disk filter would function as an effluent filter during normal flows; during wet weather events, when flows exceeded the rated capacity of the treatment units, a portion of the screened and degritted influent will be routed around the aeration basins and clarifiers and passed through the disk filter prior to disinfection by ultraviolet light.

The additional clarifiers will double the available clarification capacity and will eliminate solids washout during high flow events; the disk filter will provide advanced primary treatment for the excess flows that are routed around the secondary treatment units prior to disinfection.

Waste activated sludge would continue to be pumped to the existing aerated holding tank and dewatered by the existing belt filter press.

The existing aeration tank and digester blowers will be replaced, as will the grit unit and the sludge pumps.

A new fine (2mm) influent screen will be installed, as will a new lab building, and existing screen and blower buildings will be re-roofed and repainted.

All of the equipment in the existing clarifiers will also be replaced. Current sludge disposal practices would not be altered. Buffer zone requirements of 47CSR31 would be met.

A schematic for this alternative is shown on the following page and in Appendix C, and an estimated cost can be found in Appendix N.

OPTION 2 – Construct New Wastewater Treatment Plant Upstream of Pump Station No. 1

This alternative would involve completely replacing the existing plant with a new 350,000 gpd (ADF) plant upstream of Pump Station No. 1. The site is owned by the Town and is well above the flood plain of Mill Creek.

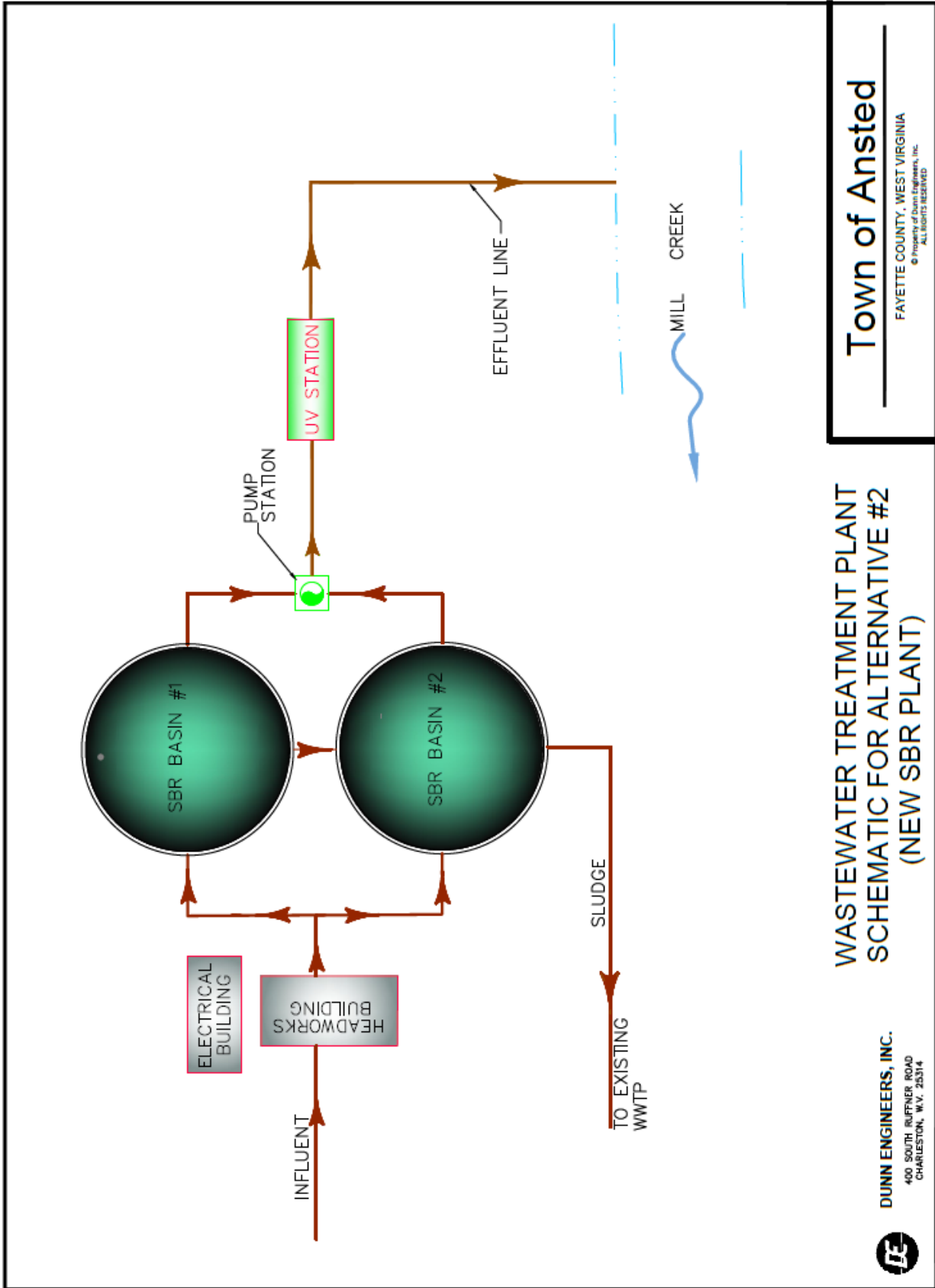
The existing plant would be used until the new plant becomes operational. The location is aesthetically acceptable due to its relative isolation, similar to the existing wastewater treatment plant location.

The plant would be a new two-basin above-ground Sequencing Batch Reactor (SBR) treatment system with an ultra-violet (UV) disinfection system.

Parts of the old plant would be utilized, such as the headworks (screening and grit removal equipment, both of which would be refurbished and upgraded).

Waste sludge would be pumped to the original site and the original digester would continue to be utilized in combination with the two aeration basins that would be converted to additional aerobic digesters; the existing belt press, which is in good condition, would be refurbished and would continue to be utilized.

A schematic for this alternative is shown on the following page and in Appendix C, and the estimated cost can be found in Appendix N.



WASTEWATER TREATMENT PLANT SCHEMATIC FOR ALTERNATIVE #2 (NEW SBR PLANT)

Town of Ansted

FAYETTE COUNTY, WEST VIRGINIA
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DUNN ENGINEERS, INC.
400 SOUTH RUFFNER ROAD
CHARLESTON, W.V. 25314



OPTION 3 – Convert Existing Wastewater Treatment Plant to the Sequencing Batch Reactor (SBR)
Process and Expand Capacity to 500,000 gpd

This alternative would involve the conversion of the existing extended aeration system into a sequencing batch reactor facility and would increase the hydraulic capacity to 500,000 gpd (ADF).

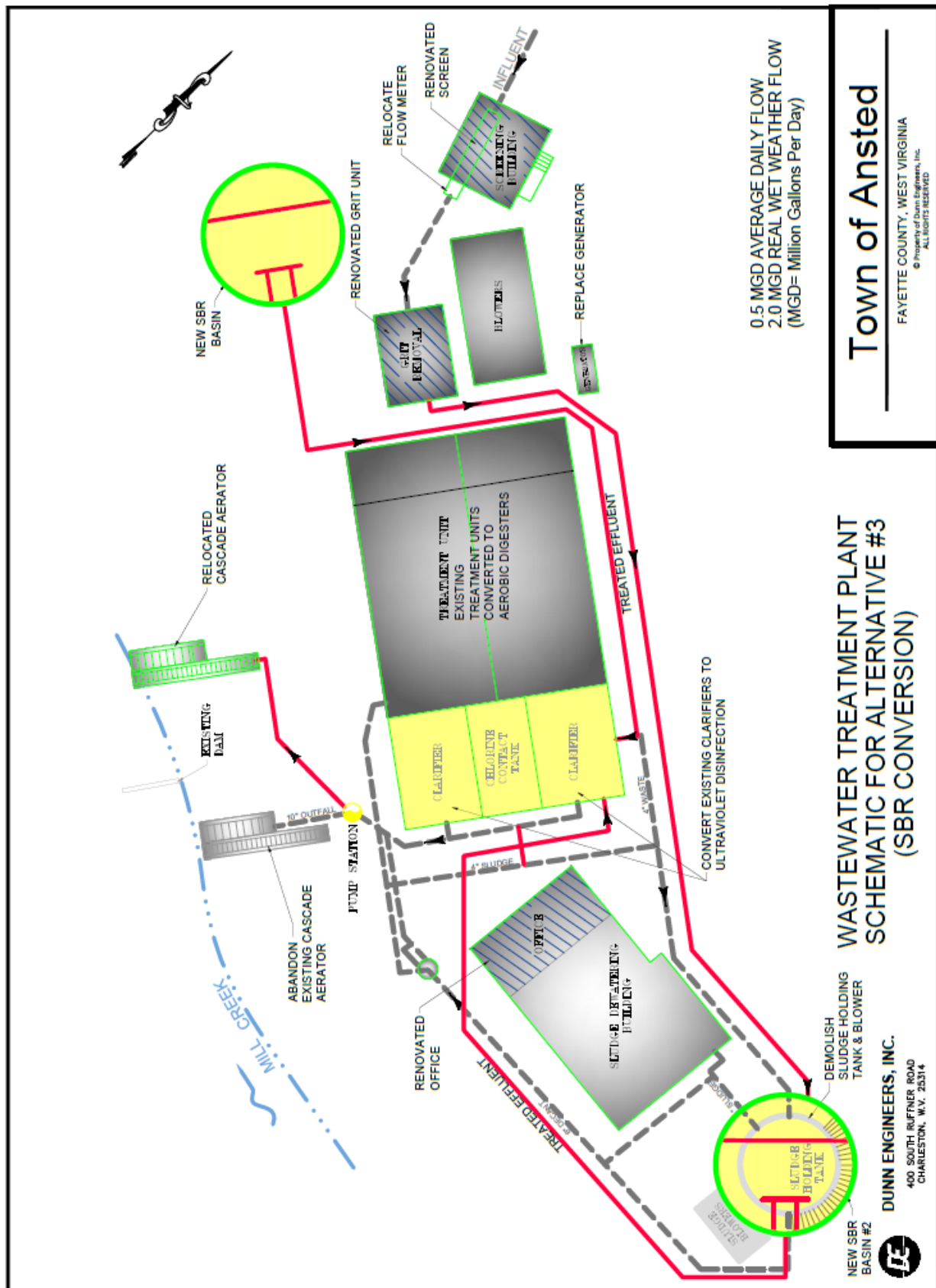
Two new, above-ground, circular steel SBR basins would be constructed, and the existing aeration basins would be converted into aerated sludge holding tanks (digesters).

The clarifiers and chlorine contact tanks would be converted into a new UV disinfection chamber.

The existing screen and grit unit would be refurbished or replaced, and the blowers, electrical system and generator would be replaced.

The existing belt filter press would be refurbished also.

A schematic for this alternative is shown on the following page and in Appendix C, and the estimated cost can be found in Appendix N.



OPTION 4 – Consolidation with Other Utilities

A fourth alternative, that of abandoning the treatment plant and pumping to a neighboring facility, was briefly evaluated and dismissed because of the unacceptably long distances to Kanawha Falls PSD (the only other nearby facility is at the Town of Fayetteville, and reaching that facility would require crossing the 800 ft. deep New River Gorge).

The length of pipe would be roughly 75,000 feet, which would have a detention time of as much as 24 hours and would result in severe septicity problems.

Additionally, the Kanawha Falls PSD does not have the capacity to accept Ansted's existing or future flows. The cost estimate for this alternative can be found in Appendix N.

Due to the cost of this alternative, and because the Kanawha Falls PSD does not have the capacity to accept Ansted's flows, it is neither reasonable nor implementable.

OPTION 5 – “No Action”

A fifth option for Ansted is to “do nothing” but perform routine maintenance and undertake repairs on an “as needed” basis. This would apply to all aspects of wastewater treatment.

The system would continue to degrade and problems would increase in frequency. In addition, the WV NPDES permit requirements would continue to go unmet and no additional customers could be served.

This alternative is considered neither appropriate nor implementable because it does not address the current and future violations of the Town's WV NPDES permit.

PART V. PLAN SELECTION AND PUBLIC PARTICIPATION

A. PLAN SELECTION

The five alternatives for providing wastewater treatment for the Town of Ansted were evaluated for ease of implementation, reliability, capital costs and operation and maintenance costs. The results of that evaluation are shown below in Table 5.

**TABLE 5
EVALUATION OF ALTERNATIVES**

Alternative	Implementation	Reliability	Capital Costs	O&M	Total
1. Aqua-Prime Disk Filter	3	3	2	2	10
2. Abandon and Construct New WWTP	3	2	3	4	12
3. Sequencing Batch Reactor (0.5 MGD)	1	1	4	3	9
4. Consolidation with Other Utilities	4	4	4	3	15
5. No Action	4	4	1	4	13

1 – best; 4 = worst

Based on this evaluation, the most cost effective and implementable alternative for providing wastewater treatment for Ansted is the Alternative No. 3 – the SBR alternative and expanding the capacity of the facility to 500,000 gpd.

The Town of Ansted has chosen to upgrade and expand its existing treatment plant with an SBR type facility. The 500,000 gpd SBR option was found to be the most advantageous for Ansted, even though it is the most costly of the treatment plant upgrade alternatives.

B. NON-MONETARY FACTORS

All three of the upgrade alternatives will address the WV NPDES permit violations, but only the 500,000 gpd SBR alternative provides the necessary capacity to allow sewer extensions to the remainder of the Mill Creek watershed to be constructed; these extensions will provide sanitary sewer service to approximately 400 unserved and underserved homes, businesses and public facilities, including the National Park Service's

Visitors Center at the New River Gorge bridge and Midland Trail High School. Upgrading the treatment plant will also improve the water quality of Mill Creek, which is a high quality trout stream, and which borders Ansted's Rail-Trail.

C. PUBLIC PARTICIPATION

A formal public meeting for the project was held on March 28, 2024; the project has been discussed at length at the City Council and Sanitary Board meetings. The minutes of the public meeting are included in Appendix L.

VI. ENVIRONMENTAL INFORMATION

A. GENERAL

The following is a summary of the environmental considerations that must be addressed prior to the start of construction. The overall environmental impact of the proposed project is minimal. Improvement to the overall public health by providing better quality wastewater treatment and increased capacity to handle the system expansion to currently unsewered areas will far outweigh any temporary environmental impact. All environmental correspondence can be found in Appendix F.

B. ARCHAEOLOGICAL AND HISTORICAL

The West Virginia Division of Culture and History was contacted for a file review of archaeological and historical sites in the planning area. Their evaluation of the proposed project site will determine if a Phase I archaeological study may need to be performed to examine any historical significance.

C. ENDANGERED SPECIES

The Natural Heritage Program in the Wildlife Section of the West Virginia Department of Natural Resources and the United States Fish and Wildlife Service was contacted regarding rare, threatened, and endangered (RTE) species in the project area. It is unlikely that this will have any effect on the project area.

D. WETLANDS

The Wildlife Resources Division of the West Virginia Department of Natural Resources was contacted regarding the potential for the project to impact wetlands. It is expected that no new materials will be discovered during construction since the work is to be performed in previously disturbed areas.

E. UNAVOIDABLE ADVERSE IMPACTS OF THE PROJECT

Several short-term impacts would result from this project. These impacts relate to construction activities and include land erosion and damage, noise, odor, dust, and air pollution. These effects would be temporary in nature with no long-term adverse effects. Erosion control measures, which are designed to minimize the impact of construction activities to rivers and streams, would be included in the specifications of the project.

F. FLOOD ELEVATIONS AND FLOOD PLAINS

The proposed project is to be constructed on the existing treatment plant site which is located adjacent to Mill Creek and is above the 100-year flood elevation. The project will not impact either flood plain or their attendant floodways. In the design of the proposed project, all critical components will be located above the 100-year flood elevation, or the manholes will be flood proofed with bolt-down, watertight lids. The wastewater treatment plant was not impacted by the 2016 flood event.

G. POTENTIAL REACTIONS TO OPEN SPACE OPPORTUNITIES

The project would not adversely affect nor limit the establishment of, nor cause the creation of, any other public open space, parks, or recreational areas.

**H. RELATIONSHIP BETWEEN LOCAL SHORT-TERM USES
AND LONG-TERM PRODUCTIVITY**

The proposed project would not damage the environment and would have no long-term detrimental effect on the area. There would be no damage to wildlife or historic areas. The short-term adverse impacts of construction would last only during the construction period and would have no adverse impacts on the long-term productivity of the area. The net result of this project would be an increase in the long-term productivity of the area.

I. IRREVERSIBLE AND IRRETRIEVABLE COMMITMENT OF RESOURCES

The primary irretrievable resources which must be committed during the construction of the proposed project include the piping materials, concrete, steel, fuels, and machinery used during the construction period. The irreversible and irretrievable commitment of resources for the proposed project would not have any major detrimental effect on the nation's vital resources.

J. NOISE, ODOR, DUST, AND AIR POLLUTION

The noise of construction, mud during wet periods, dust during dry periods, and the air pollution from construction equipment would create an adverse effect on the environment. The impact would be localized at the point of construction and would be temporary in nature.

K. GROUNDWATER AND PUBLIC WATER SUPPLY

The nature and quality of the groundwater in the project area is not known. The proposed project should have no adverse effect on the groundwater in the project area. No municipal water supply wells are located in the project area, and the nearest public water intake (for the Kanawha Falls PSD) is located several miles downstream in the community of Charlton Heights.

L. LAND USE

Land use is not expected to change substantially as a result of this project. The residential, commercial, and industrial character of the overall town is not expected to change.

M. MITIGATIVE MEASURES

The primary adverse impacts of noise, dust, erosion, air pollution, and sedimentation during construction would be mitigated by utilizing good construction practices which include proper scheduling of the work hours, erosion and sedimentation controls, prompt cleanup, and re-seeding after construction. These mitigative measures would be strictly enforced to ensure that no lasting detrimental environmental consequences would be associated with the project.

N. EFFICIENT USE OF ENERGY AND RESOURCES

The project would be designed to use the most energy efficient equipment and methods currently available for the required processes. The contract documents will address energy efficient construction methods to be used by the contractors. Specified construction materials will ensure a long service life for the proposed water system improvements.

O. STATEMENT REGARDING LAND AVAILABILITY

All of the facilities recommended in this report would be constructed within existing rights-of-way and on sites owned by the Town. Should any additional easements be required, they will be obtained.

VII. PROJECT SUMMARIES

A. ENGINEERING SUMMARY

1. SEWAGE TREATMENT PLANT

Upgrading the existing 0.23 mgd extended aeration sewage treatment plant to an average daily capacity of 500,000 gpd and a peak capacity of 2,000,000 gpd (four times the plant's existing peak capacity) will include:

- Install new fine (2mm) influent screen
- Install new grit removal unit
- Replace existing blowers and pumps
- Install 2 new SBR Basins
- Convert existing aeration basins to sludge digesters
- Replace chlorine disinfection with UV disinfection
- Replace Belt Filter Press
- Replace Flow Meter
- Construct new lab/office building
- Upgrade buildings and electrical system
- Relocate plant outfall
- Replace emergency generator

B. COST SUMMARY

1. Project Costs

The estimated construction costs for upgrading the wastewater treatment plant are shown in Appendix N.

2. Proposed Budget

The proposed budget for the project is shown in Appendix N.

3. Operation and Maintenance

Upgrading the existing sewage treatment plant will require some additional spare parts to be purchased on a routine basis (UV bulbs and ballasts, along with an increase in purchased power of approximately 20,000/ year for the new fine screen, blowers, buildings, and UV units). These additional costs are anticipated to initially be approximately \$32,000 per year. There will be no increases in labor or sludge processing and disposal costs at the conclusion of the upgrade project, since no additional customers are being added at this time.

4. Existing Debt

The Town has two outstanding loans; the loan information is shown below.

Debt Holder	Issued	Maturity	Balance	Interest Rate	Annual required funding
Ansted Sewer 2000A	12/2000	2030	\$130,622	0.00%	\$19,352
Ansted 22-A Sewer Revenue/SRF (2021)	02/2022	2051	\$3,055,946	0.75%	\$122,442

Source: FY 2024 PSC Annual Report for Town of Ansted (Sewer)

5. Proposed Project Financing

Several funding sources will be used for the project, including grants from the WV Infrastructure and Jobs Development Council (WV IJDC), SRF “debt forgivable loan” funding, a Congressionally Directed Spending (CDS) grant with the state match, and an Economic Enhancement Grant Fund (EEG) grant from the WV Water Development Authority (See Appendix P for WV IJDC funding recommendation letter).

6. User Rates

Ansted currently serves 662 residential, commercial, and public authority customers, as well as the Hawks Nest State Park Lodge. Rates for sewer service, which will become effective in June 2023 (after Substantial Completion of the Phase I project), will be \$20.10 per 1,000 gallons.

The average monthly bill for 3,400 gallons of usage will be \$68.34, which is 2.14% of the Median Household Income (MHI); in 2020 the estimated MHI for Ansted was \$38,261 per year, based on the WV DEP FY 2023 Intended Use Plan. The existing tariff for Ansted can be found in Appendix I.

C. PROJECT SCHEDULE

The preliminary schedule for the project is shown below.

Professional Services Acquired	Complete
All Agreements Executed and Approved, excluding Construction	August 2023
Plans and Specs submitted to Applicable Agencies.....	December 2025
All Permits Submitted.....	December 2025
Final Plans and Specs Approved	March 2026
Ruel 42 Completed	March 2026
Municipal Rate Ordinance Completed.....	May 2026
Request for All Binding Commitments	May 2026
File PSC Certificate Case.....	May 2026
80% ROWs and Easements, and 100% Land Acquisitions Recorded	N/A
Request Authorization to Bid.....	June 2026
Advertise for Bids.....	July 2026
Bid Opening.....	September 2026
100% ROWs, Easements and Land Acquisitions Recorded.....	May 2026
All Permits and Clearances Obtained	September 2026
PSC Certificate Final	November 2026
Loan Closing / Award Contracts.....	December 2026
Start Construction	January 2027
Project Completion	January 2029

D. LANDS AND RIGHTS-OF-WAY

The proposed wastewater treatment plant upgrade will be constructed on property already owned by the Town of Ansted.

E. PUBLIC HEALTH BENEFITS

With the construction of the proposed project, the residents of the Town of Ansted will be provided with dependable and efficient wastewater treatment well into the future. This project will address existing hydraulic capacity issues and the requirements of DEP Order 8839, and will allow the Town to expand its sewage collection system to some 400 unserved customers, including opportunities associated with the New River Gorge National Park and Preserve and Adventures on the Gorge Resort.

VIII. CONCLUSIONS AND RECOMMENDATIONS

A. CONCLUSIONS

There are several conclusions that can be drawn from this study, including:

1. The Town of Ansted currently provides sanitary sewer service to approximately 582 residential and commercial customers.
2. The Town's existing sewage treatment plant is treating flows greater than its design capacity of 230,000 gpd and is violating the terms of its WV NPDES permit; because of those and other violations, the WV DEP has issued Order No. 8839.

3. The mechanical and electrical equipment at the plant is failing and nearing the end of its useful life and needs to be replaced.
4. There are currently approximately 400 unserved or underserved residential, commercial, and public authority properties (including Midland Trail High School, Adventures on the Gorge resort and the National Park Service Visitors Center) in the Mill Creek drainage areas that can be served by the Town of Ansted once sufficient wastewater treatment capacity has been constructed.
5. The existing treatment plant can be expanded to capacities of 350,000 gpd or 500,000 gpd, but the very limited space at the site precludes expanding first to 350,000 gpd and then to 500,000 gpd.
6. Expanding the capacity of the treatment plant to 500,000 gpd will provide significant economic opportunities for Ansted and northern Fayette County, especially given Ansted's location adjacent to the New River Gorge National Park and Preserve.
7. Upgrading the existing wastewater treatment plant to a capacity of 500,000 gpd will cost approximately \$13.36 million, including contingencies.
8. Grants are available to fund the project.

B. RECOMMENDATIONS

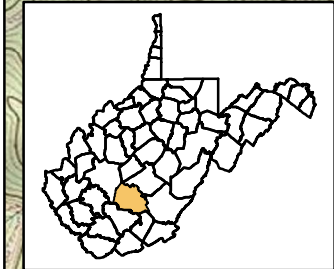
The Town of Ansted should proceed to acquire funding for upgrading its existing wastewater treatment plant (Alternative 3 – SBR) to a capacity of 500,000 gpd.

APPENDICES

APPENDIX A

MAPS

Document Path: R:\Info\Drawings\Town of Ansted\WWTU Upgrade & Expansion\GIS\MXD\USGS Site Location - Ansted.mxd

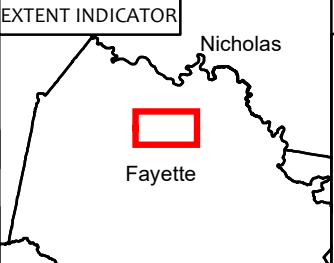


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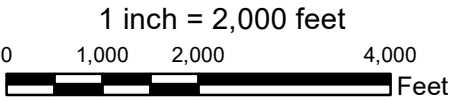
DETAILS:

Quad: Ansted	
Drawn By: cedwards	Date: 12/7/2023
Surveyed By: XX/XX	Date: MM/DD/YYYY
Project No. D10-11008	
Sheet Number: USGS	



Legend

- Project Extents
- Limit of Disturbance



USGS Site Location
Existing Wastewater Treatment
Plant Upgrade
Fayette County - West Virginia

Town of Ansted

THRASHER

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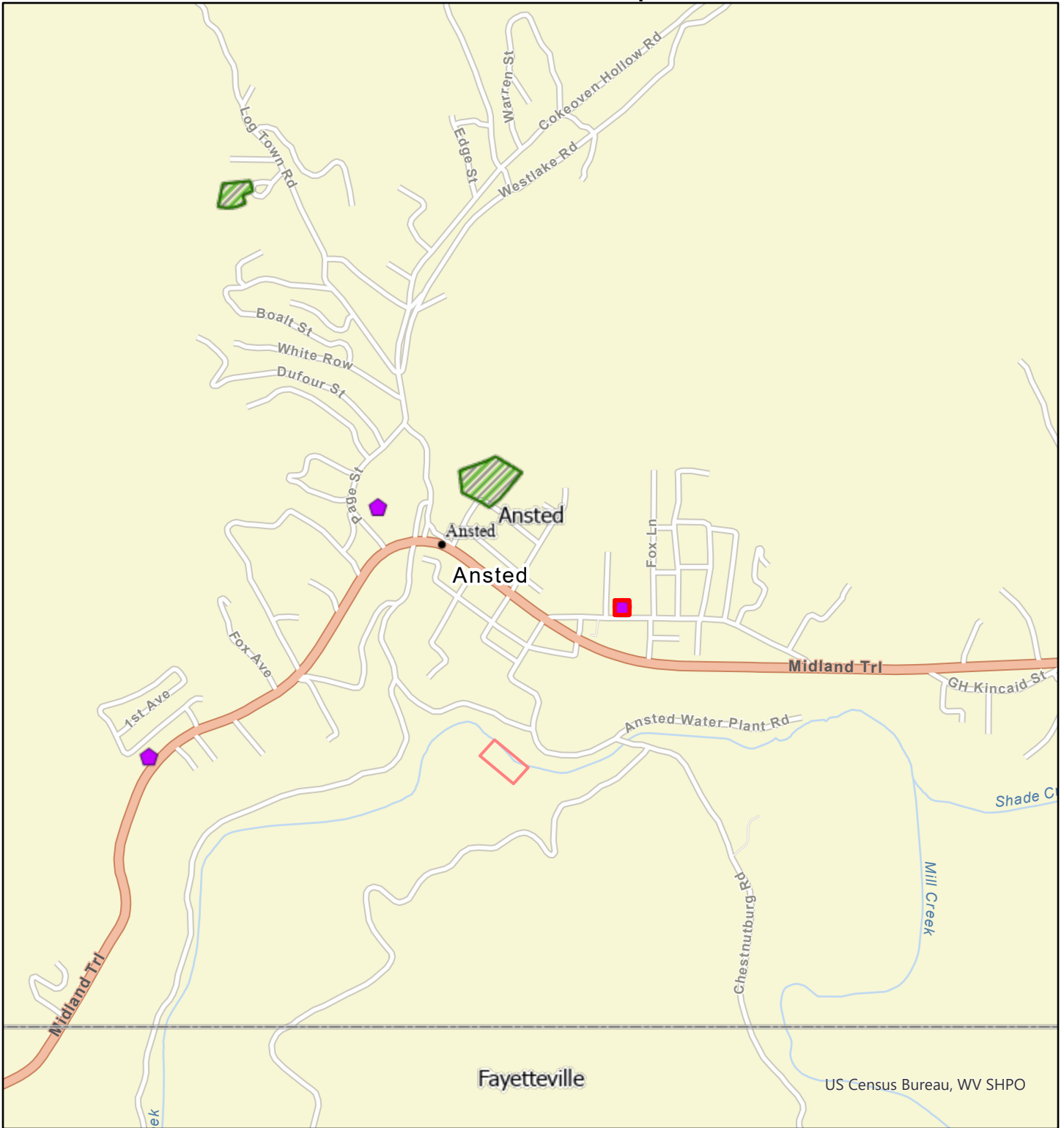
Document Path: R:\aerial\11008 Town of Ansted WWTP Upgrade & Expansion\GIS\MXD\Aerial Site Location_Ansted.mxd



	DETAILS:	<div>EXTENT INDICATOR</div>	<div>Legend</div> <div> Project Extents</div> <div> Limit of Disturbance</div>		<div>1 inch = 100 feet</div> <div></div>	<div>Aerial Site Location</div> <div>Existing Wastewater Treatment Plant Upgrade</div> <div>Fayette County - West Virginia</div>
	Quad: Ansted					
	Drawn By: cedwards Date: 12/7/2023					
	Surveyed By: XX/XX Date: MM/DD/YYYY					
	Project No. D10-11008					
Sheet Number: 1 of 1	Town of Ansted		THRASHER			

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WV SHPO Map



December 6, 2023

1:18,056

0 0.13 0.25 0.5 mi



National Register - Area



National Register - Point

Notes:

Condition



Demolished



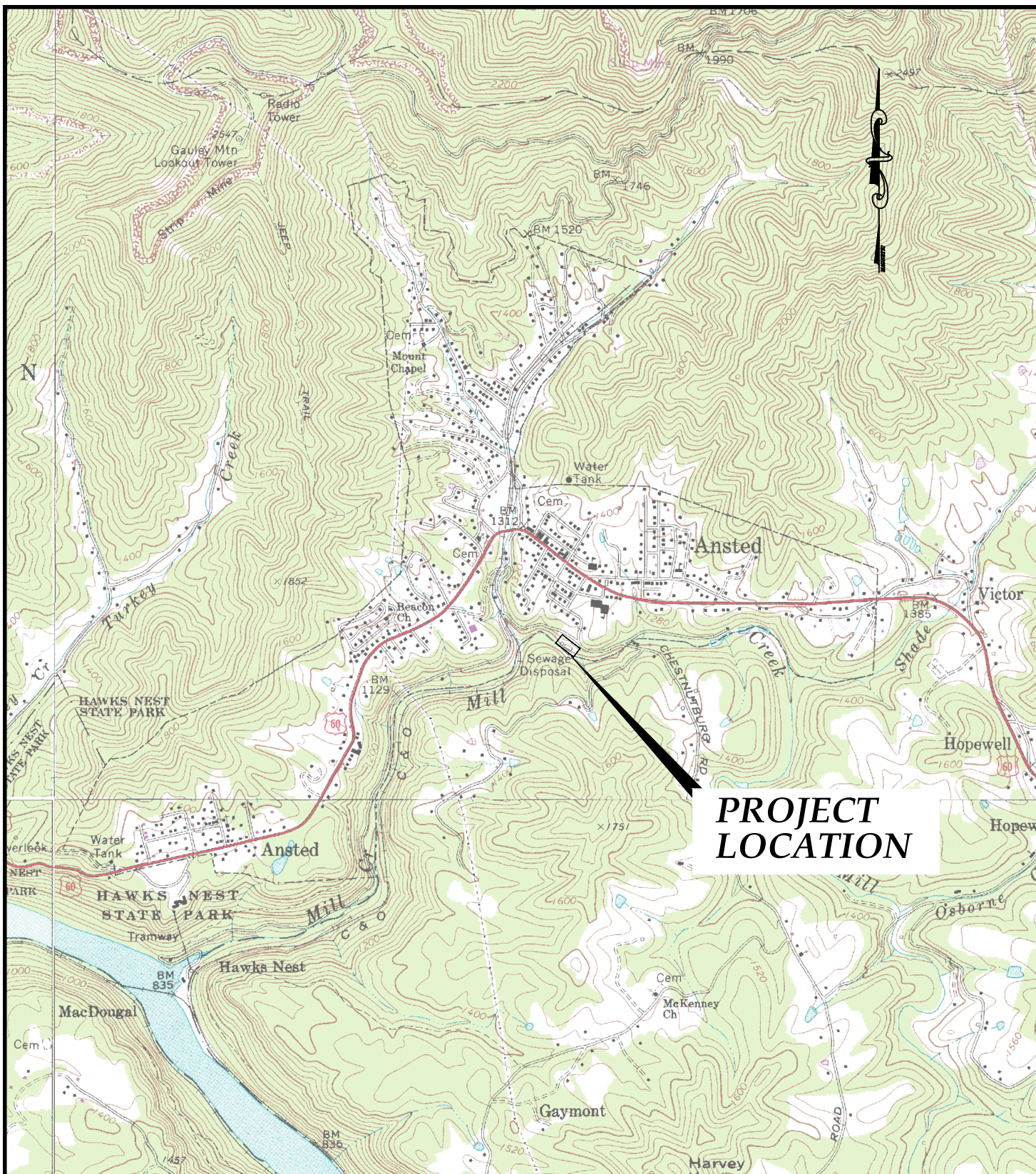
Demolished



Active



Active



Town of Ansted

FAYETTE COUNTY, WEST VIRGINIA

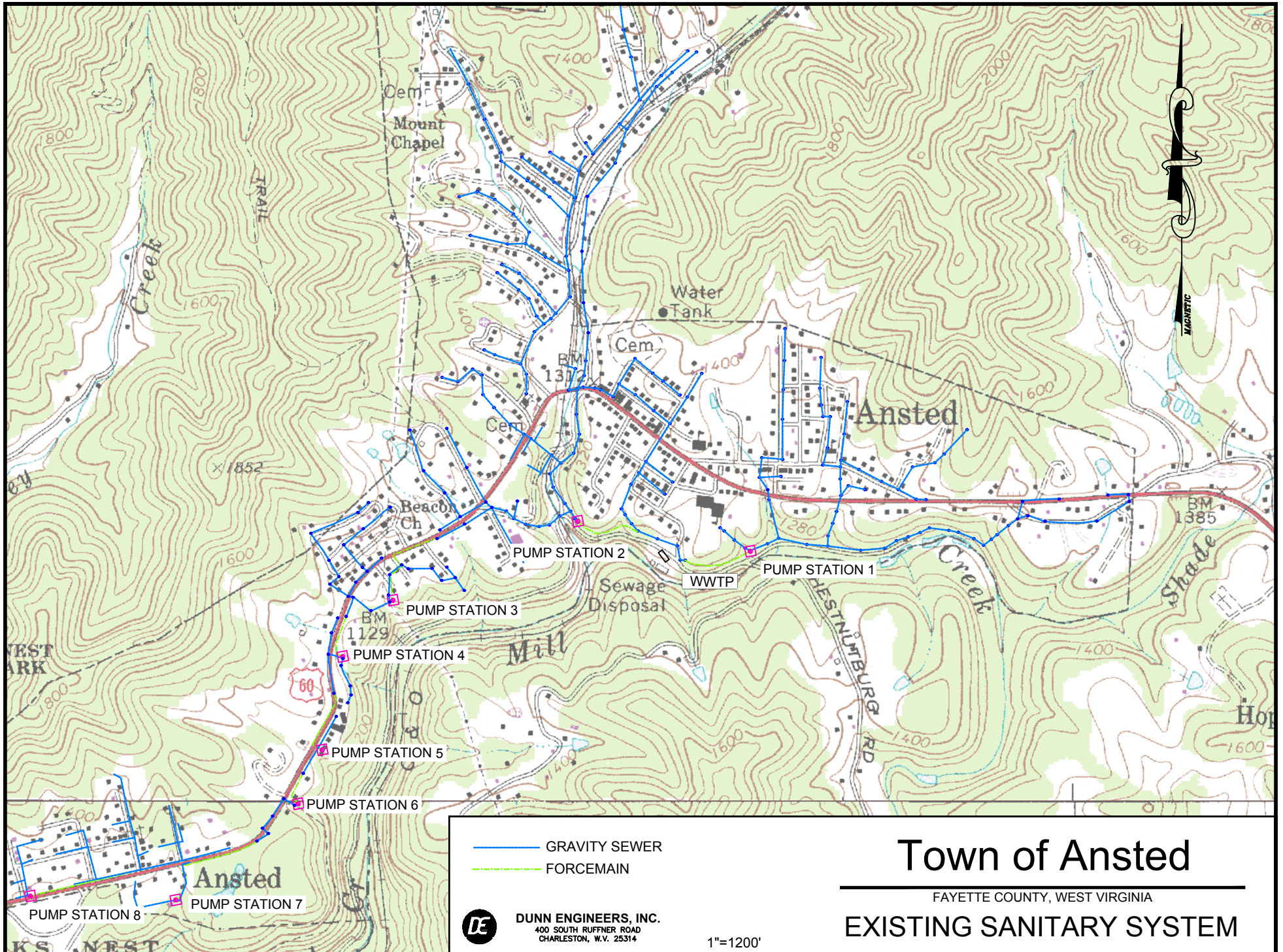
TREATMENT PLANT LOCATION



DUNN ENGINEERS, INC.
400 SOUTH RUFFNER ROAD
CHARLESTON, W.V. 25314

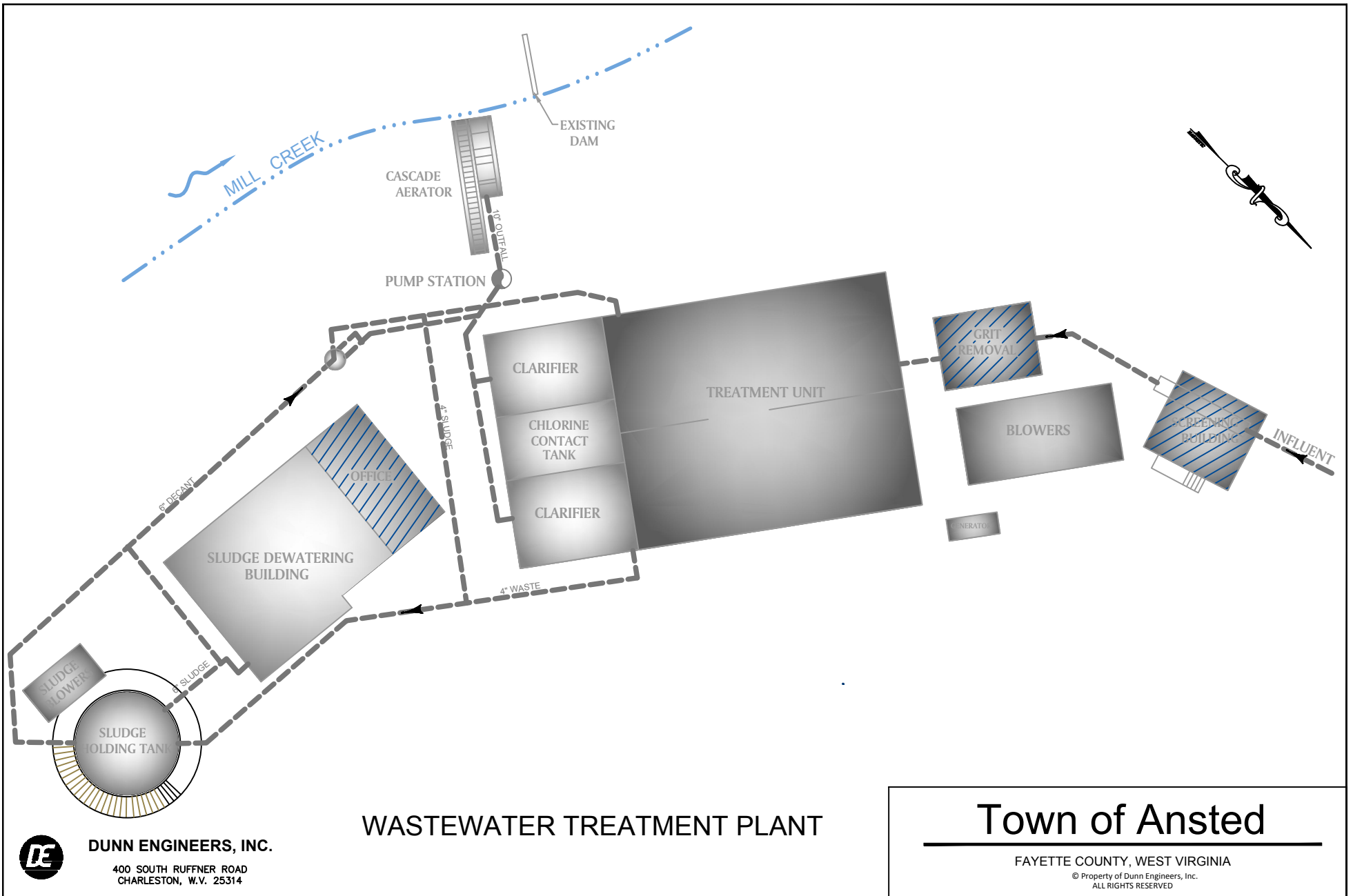
SCALE: 1"=2000'

Ansted, WV, Quadrangle



APPENDIX B

SCHEMATIC OF EXISTING ANSTED SEWAGE TREATMENT PLANT



DUNN ENGINEERS, INC.

400 SOUTH RUFFNER ROAD
CHARLESTON, W.V. 25314

WASTEWATER TREATMENT PLANT

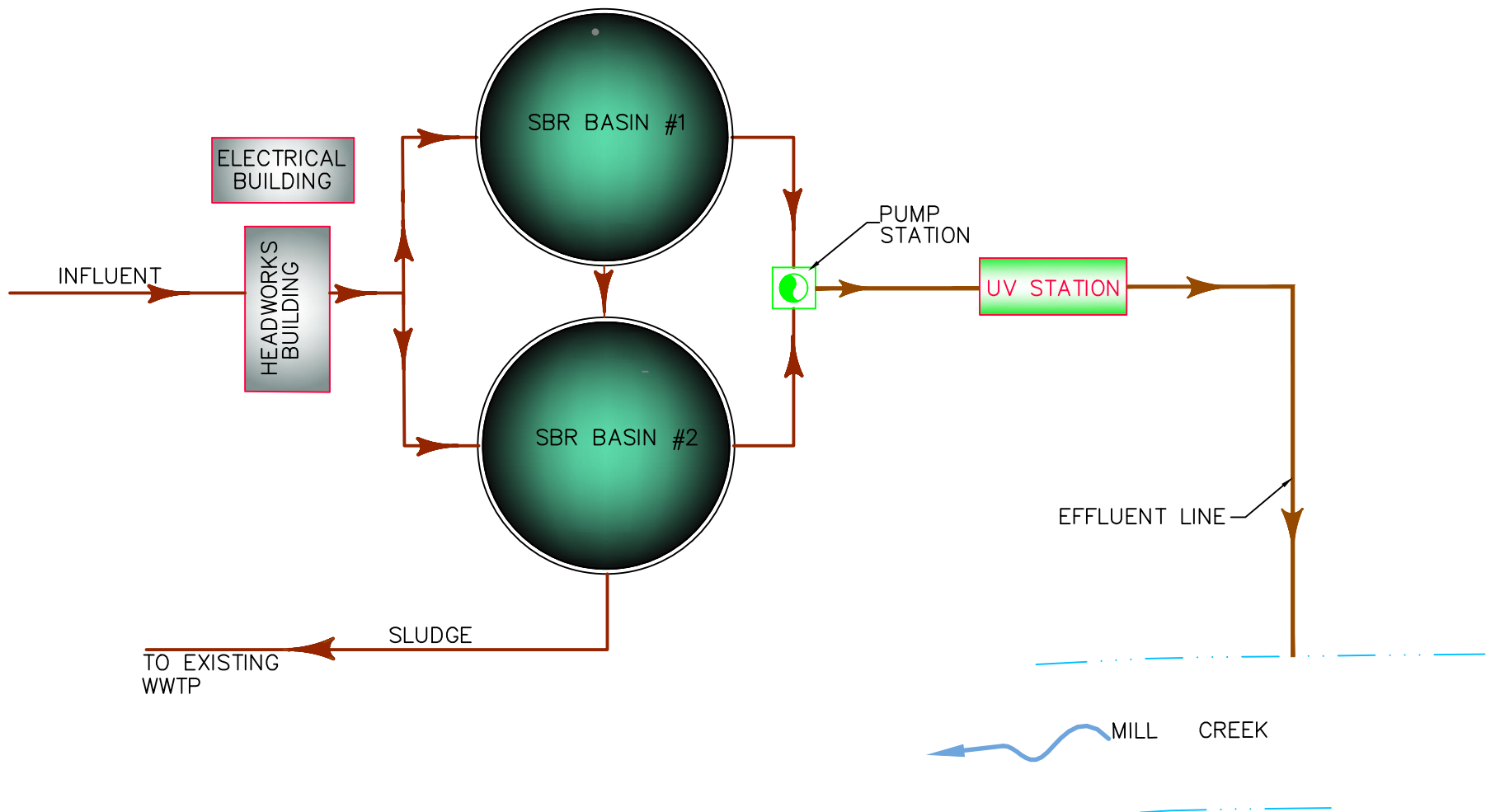
Town of Ansted

FAYETTE COUNTY, WEST VIRGINIA

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APPENDIX C

SCHEMATICS OF SEWGE TREATMNT PLANT UPGRADE



WASTEWATER TREATMENT PLANT SCHEMATIC FOR ALTERNATIVE #2 (NEW SBR PLANT)

Town of Ansted

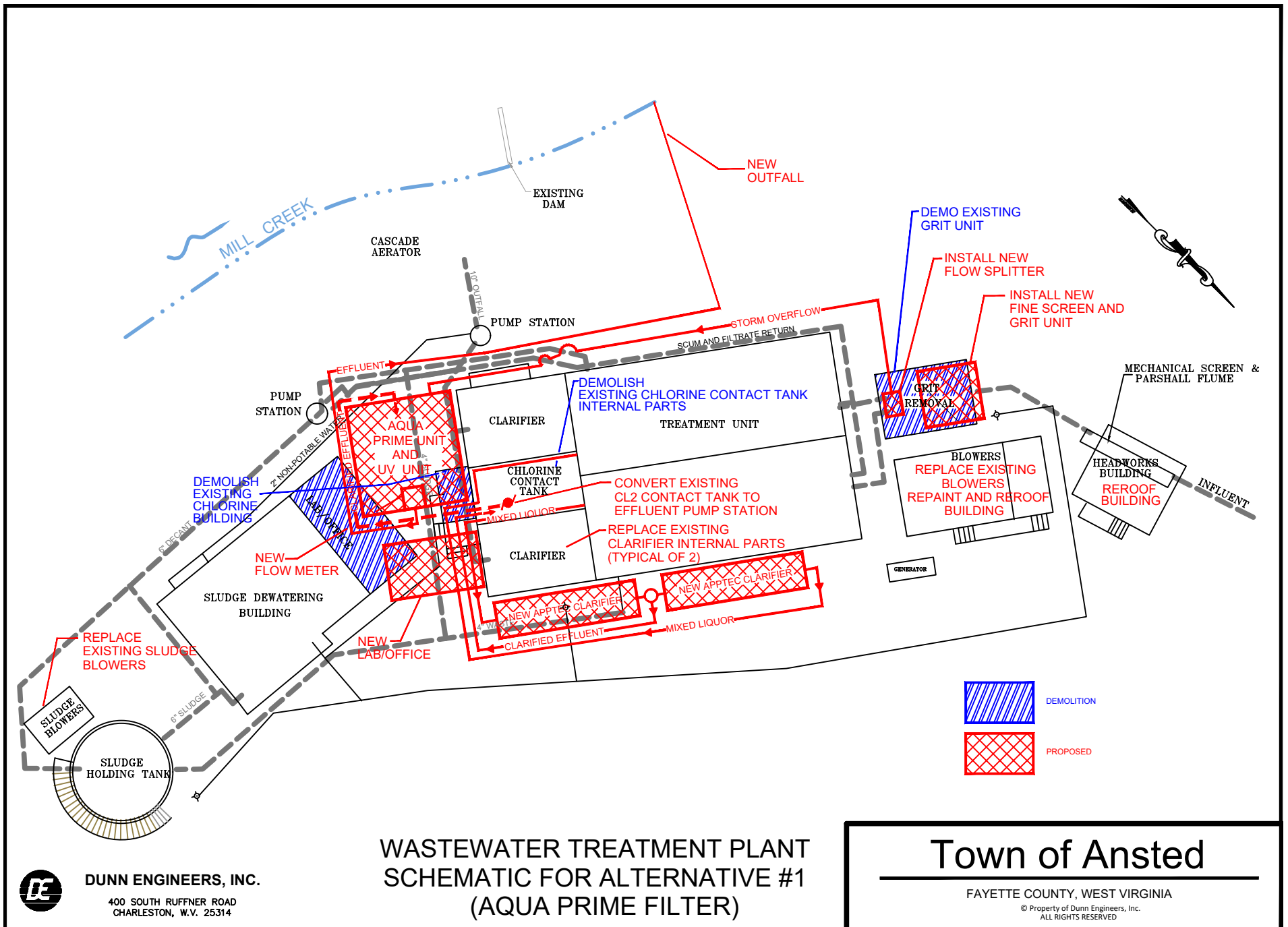
FAYETTE COUNTY, WEST VIRGINIA

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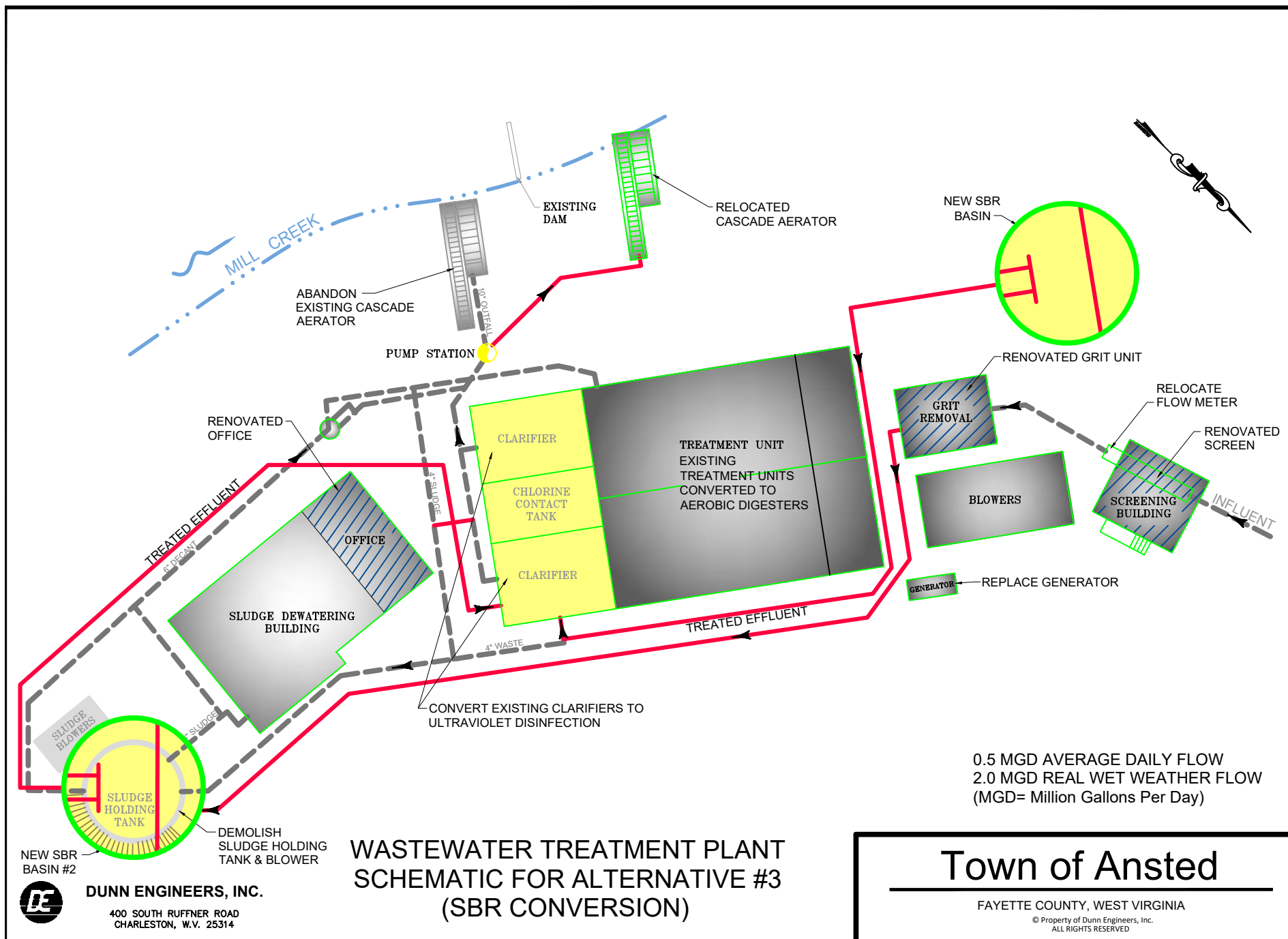
DUNN ENGINEERS, INC.

400 SOUTH RUFFNER ROAD
CHARLESTON, W.V. 25314



DUNN ENGINEERS, INC.

400 SOUTH RUFFNER ROAD
CHARLESTON, W.V. 25314



DUNN ENGINEERS, INC.

400 SOUTH RUFFNER ROAD
CHARLESTON, W.V. 25314

APPENDIX D
PHOTOGRAPHS



DUNN ENGINEERS, INC.
400 SOUTH RUFFNER ROAD
CHARLESTON, W.V. 25314

Town of Ansted Sewage Treatment Plant



Pump Station 1



Pump Station 2



Pump Station 4



Pump Station 3



DUNN ENGINEERS, INC.
400 SOUTH RUFFNER ROAD
CHARLESTON, W.V. 25314

Town of Ansted
Existing Pump Station Sites



Pump Station 5



Pump Station 6



Pump Station 8



DUNN ENGINEERS, INC.
400 SOUTH RUFFNER ROAD
CHARLESTON, W.V. 25314

Town of Ansted
Existing Pump Station Sites

APPENDIX E

WV NPDES PERMIT NO. WV0020672



west virginia department of environmental protection

Division of Water and Waste Management
601 57th Street SE
Charleston, West Virginia 25304-2345
Phone: 304-926-0495
Fax: 304-926-0496

Austin Caperton, Cabinet Secretary
www.dep.wv.gov

May 14, 2019

HONORABLE ROMIE HOBBS
ANSTED, TOWN OF
PO BOX 798
ANSTED, WV 25812

91 7199 9991 7039 1714 9946

CERTIFIED RETURN RECEIPT REQUESTED

Dear Permittee:

Enclosed please find WV/NPDES Permit Number WV0020672 dated May 14, 2019.

Please note that a Discharge Monitoring Report (DMR) is to be completed and submitted to this Division each month.

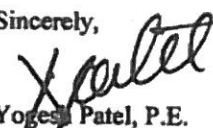
Finally note that copies of all future correspondence regarding the permit must be forwarded to the Field Inspector and Field Supervisor at the following address:

Department of Environmental Protection
Environmental Enforcement
1159 Nick Rahall Greenway
Fayetteville, WV 25840

Also, please note the attachment to this permit which describes the annual permit fee requirement. Reissuance of your permit does not change the annual fee billing cycle.

If you have any questions, please contact Cassie Casto of this Division at (304) 926-0499 at extension 1285, or by email at cassie.b.casto@wv.gov.

Sincerely,


Yogesh Patel, P.E.
Chief Engineer

YP:cc

Enclosures

Promoting a healthy environment.

Permit Number: WV0020672

Permittee: ANSTED, TOWN OF

**cc: Bureau of Public Health
Construction Assistance
Env. Insp. Supv.
Env. Insp.
Public Service Commission**



STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF WATER AND WASTE MANAGEMENT
601 57TH STREET SE
CHARLESTON, WV 25304-2345

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM
WATER POLLUTION CONTROL PERMIT

NPDES PERMIT NO.: WV0020672

SUBJECT: Sewage

ISSUE DATE: May 14, 2019

EFFECTIVE DATE : July 01, 2019

EXPIRATION DATE: May 13, 2024

SUPERSEDES: Permit No. WV0020672
dated December 31, 2013

LOCATION: ANSTED
(City)

Fayette
(County)

Lower New River
(Drainage Basin)

See the next page for a list of Outlets.

TO WHOM IT MAY CONCERN:

This is to certify that: ANSTED, TOWN OF
PO BOX 798
ANSTED, WV 25812

is hereby granted a West Virginia NPDES Water Pollution Control Permit to:
operate and maintain an existing 0.23 million gallons per day (MGD) wastewater collection and treatment system
which is further described as follows:

The existing wastewater collection system consists of approximately 2,093 linear feet of six (6) inch diameter gravity sewer line, 55,928 linear feet of eight (8) inch diameter sewer line, 2,086 linear feet of 10 inch diameter gravity sewer line, 351 manholes, 64 cleanouts, eight (8) lift stations, 6,234 linear feet of four (4) inch diameter force main and all necessary appurtenances.

The existing wastewater treatment plant is comprised of a mechanical bar screen, a grit removal system, two (2) aeration chambers with total volume of 230,010 gallons, two (2) clarifiers with a total volume of 38,335 gallons, a 4,795 gallon chlorine contact chamber and dechlorination system, a 40,600 gallon aerated sludge holding tank, a sludge dewatering 0.7 meter belt press, post lime sludge stabilization facilities and all requisite appurtenances.

Facilities are to serve a population equivalent of approximately 1,500 persons in the Town of Ansted and Hawks Nest State Park and discharge the treated wastewater, via Outlet No. 001, to Mill Creek (approximately 2 miles from its mouth) of the New River of the Kanawha River.

This permit is subject to the following terms and conditions :

The information submitted on, and with, Permit Application No. WV0020672, dated the 13th day of December 2018, with updates submitted December 14, 2018 and January 19, 2019, are all, hereby, made terms and conditions of this permit with like effect as if all such permit application information were set forth, herein, and with other conditions set forth in Sections A, B, C, and D, and Appendix A.

The validity of this permit is contingent upon the payment of the applicable annual permit fee, as required by Chapter 22, Article 11, Section 10 of the Code of West Virginia.

Inspectable Unit	Latitude	Longitude	Receiving Stream	Dist. to Stream Mouth (in Mile)	Milepost
001	38°08'00"	81°05'30"	MILL CK	2	N/A
S01	38°08'00"	81°05'30"	N/A	N/A	N/A

A.001 DISCHARGE LIMITATIONS AND MONITORING REQUIREMENTS:
Permit Limits

During the period beginning 7/1/2019 and lasting through midnight 5/13/2024 the permittee is authorized to discharge from Outlet Number(s) 001 (Sanitary)

Such discharges shall be limited and monitored by the permittee as specified below:

Effluent Characteristics		Discharge Limitations				Monitoring Requirements	
		Quantity	Units	Other Units		Measurement Frequency	Sample Type
50050 - (Flow, in Conduit or thru plant) (Year Round) (ML-1) (RF-A)		N/A	N/A	Rpt Only Minimum	Rpt Only Avg Monthly	Continuous	measured
00310 - (BOD, 5-Day 20 Deg C) (Year Round) (ML-8) (RF-A)		58 Avg Monthly	115 Max Daily	N/A	30 Avg Monthly	1/month	8 hr comp
00530 - (Total Suspended Solids) (Year Round) (ML-A) (RF-A)		58 Avg Monthly	115 Max Daily	N/A	30 Avg Monthly	1/month	8 hr comp
81010 - (BOD, % Removal) (Year Round) (ML-K) (RF-A)		N/A	N/A	85 Month Avg Min	N/A	1/month	8 hr comp
81011 - (Suspended Solids, % Removal) (Year Round) (ML-K) (RF-A)		N/A	N/A	85 Month Avg Min	N/A	1/month	8 hr comp
74055 - (Coliform, Fecal) (Year Round) (ML-A) (RF-A)		N/A	N/A	N/A	200 Mon Qtr Mean	1/month	Grab
00400 - (pH) (Year Round) (ML-A) (RF-A)		N/A	N/A	6 Inst. Min.	N/A	1/month	Grab
00610 - (Ammonia Nitrogen) (Summer May 1-Oct 31) (ML-A) (RF-A)		13 Avg Monthly	28 Max Daily	N/A	8.8 Avg Monthly	1/month	8 hr comp

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):
 Effluent BOD5 samples shall be collected at a location immediately preceding disinfection. All other effluent samples shall be collected at or as near as possible to the point of discharge.

This discharge shall comply with Appendix A - I MANAGEMENT CONDITIONS I - 12.

A.001 DISCHARGE LIMITATIONS AND MONITORING REQUIREMENTS:
Permit Limits

During the period beginning 7/1/2019 and lasting through midnight 5/13/2024 the permittee is authorized to discharge from Outlet Number(s) 001 (Sanitary)

Such discharges shall be limited and monitored by the permittee as specified below:

<u>Effluent Characteristic</u>	<u>Discharge Limitations</u>			<u>Monitoring Requirements</u>		
	<u>Quantity</u>	<u>Units</u>	<u>Other Units</u>	<u>Measurement Frequency</u>	<u>Sample Type</u>	
00810 - (Ammonia Nitrogen) (Winter Nov 1-Apr 30) (ML-A) (RF-A)	25 Avg. Monthly	52 Lbs/Day Max. Daily	N/A	13.6 Avg. Monthly	27 Max. Daily	1/month 8 hr comp
50060 - (Chlorine, Total Residual) (Year Round) (ML-A) (RF-A)	N/A	N/A	N/A	zero Avg. Monthly	zero Max. Daily	1/month Grab
01119 - (Copper, Total Recoverable) (Year Round) (ML-A) (RF-D)	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	1/year 8 hr comp
01114 - (Lead, Total Recoverable) (Year Round) (ML-A) (RF-D)	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	1/year 8 hr comp
01094 - (Zinc, Total Recoverable) (Year Round) (ML-A) (RF-D)	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	1/year 8 hr comp
00900 - (Hardness, Total (as CaCO3)) (Year Round) (ML-6) (RF-C)	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	1/6 months Grab

Refer to Section C 22

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):
 Effluent BOD5 samples shall be collected at a location immediately preceding disinfection. All other effluent samples shall be collected at or as near as possible to the point of discharge.

This discharge shall comply with Appendix A - I MANAGEMENT CONDITIONS I - 12.

A.S01 SEWAGE SLUDGE LIMITATIONS AND MONITORING REQUIREMENTS:
Permit Limits

During the period beginning 7/1/2019 and lasting through midnight 5/13/2024 the permittee is authorized to dispose sludge in accordance with the following from Outlet Number S01 (Sludge)

<u>Effluent Characteristic</u>	<u>Limitations</u>			<u>Monitoring Requirements</u>		
	<u>Quantity</u>	<u>Units</u>	<u>Other Units</u>	<u>Measurement Frequency</u>	<u>Sample Type</u>	
00400 - (pH) (Year Round) (ML-1) (RF-C)	N/A	N/A	N/A	1/8 months	Grab	
61521 - (Arsenic, Sludge Tot Dry Wt.) (Year Round) (ML-1) (RF-C)	N/A	N/A	N/A	1/8 months	1 Week Comp	
78476 - (Cadmium, Sludge, Tot Dry Wt.) (Year Round) (ML-1) (RF-C)	N/A	N/A	N/A	1/8 months	1 Week Comp	
78473 - (Chromium, Dry Wt.) (Year Round) (ML-1) (RF-C)	N/A	N/A	N/A	1/8 months	1 Week Comp	
78475 - (Copper, Sludge, Tot, Dry Wt.) (Year Round) (ML-1) (RF-C)	N/A	N/A	N/A	1/8 months	1 Week Comp	
78468 - (Lead, Dry Wt.) (Year Round) (ML-1) (RF-C)	N/A	N/A	N/A	1/8 months	1 Week Comp	
78471 - (Mercury, Dry Wt.) (Year Round) (ML-1) (RF-C)	N/A	N/A	N/A	1/8 months	1 Week Comp	
78465 - (Molybdenum, Dry Wgt) (Year Round) (ML-1) (RF-C)	N/A	N/A	N/A	1/8 months	1 Week Comp	

Sludge

A.S01 SEWAGE SLUDGE LIMITATIONS AND MONITORING REQUIREMENTS:
Permit Limits

During the period beginning 7/1/2019 and lasting through midnight 5/13/2024 the permittee is authorized to dispose sludge in accordance with the following from Outlet Number S01 (Sludge)

<u>Effluent Characteristic</u>	<u>Limitations</u>			<u>Monitoring Requirements</u>		
	<u>Quantity</u>	<u>Units</u>	<u>Other Units</u>	<u>Measurement Frequency</u>	<u>Units</u>	<u>Sample Type</u>
78469 - (Nickel, Dry Wt.) (Year Round) (ML→) (RF-C)	N/A	N/A	N/A	1/8 months	mg/kg	1 Week Comp
49031 - (Selenium, Sludge, Tot Dry Wt.) (Year Round) (ML→) (RF-C)	N/A	N/A	N/A	1/8 months	mg/kg	1 Week Comp
78467 - (Zinc, Dry Wt.) (Year Round) (ML→) (RF-C)	N/A	N/A	N/A	1/8 months	mg/kg	1 Week Comp
00916 - (Calcium, Total (as Ca)) (Year Round) (ML→) (RF-C)	N/A	N/A	N/A	1/8 months	mg/kg	1 Week Comp
61553 - (Solids, Total Sludge Percent) (Year Round) (ML→) (RF-C)	N/A	N/A	Rpt Only Avg	1/8 months	Percent	1 Week Comp
78472 - (Potassium, Sludge Tot Dry Wt.) (Year Round) (ML→) (RF-C)	N/A	N/A	N/A	1/8 months	mg/kg	1 Week Comp
78478 - (Phosphorus, Sludge, Tot, Dry Wt.) (Year Round) (ML→) (RF-C)	N/A	N/A	N/A	1/8 months	mg/kg	1 Week Comp
82294 - (Nitrogen, Ammonia Tot DW) (Year Round) (ML→) (RF-C)	N/A	N/A	N/A	1/8 months	mg/kg	1 Week Comp

Sludge

A.S01 SEWAGE SLUDGE LIMITATIONS AND MONITORING REQUIREMENTS:
Permit Limits

During the period beginning 7/1/2019 and lasting through midnight 5/13/2024 the permittee is authorized to dispose sludge in accordance with the following from Outlet Number S01 (Sludge)

<u>Effluent Characteristic</u>	<u>Limitations</u>			<u>Monitoring Requirements</u>	
	<u>Quantity</u>	<u>Units</u>	<u>Other Units</u>	<u>Measurement Frequency</u>	<u>Sample Type</u>
78470 - (Nitrogen, Sludge Tot. Dry Wt) (Year Round) (ML→) (RF-C)	N/A	N/A	N/A	Rpt Only Maximum 1/8 months	1 Week Comp
51020 - (Organic Nitrogen) (Year Round) (ML→) (RF-C)	N/A	N/A	N/A	Rpt Only Maximum 1/8 months	1 Week Comp
00927 - (Magnesium, Tot (as Mg)) (Year Round) (ML→) (RF-C)	N/A	N/A	N/A	Rpt Only Maximum 1/8 months	1 Week Comp
31641 - (Fecal Coliform (Sludge)) (Year Round) (ML→) (RF-C)	N/A	N/A	N/A	Rpt Only Maximum 1/8 months	Grab

Sludge

B. SCHEDULE OF COMPLIANCE

1. The permittee shall achieve compliance with the provisions for waste treatment and the monitoring requirements specified in the permit in accordance with the following schedule :

Effective date of permit.

2. Reports of compliance or non-compliance with, and progress reports on interim and final requirements contained in the above compliance schedule, if any, shall be postmarked no later than 14 days following each schedule date.

Section C - Other Requirements

1. The herein-described treatment works, structures, electrical and mechanical equipment shall be adequately protected from physical damage by the maximum expected one hundred (100) year flood level and operability be maintained during the twenty-five (25) year flood level.
2. The entire sewage treatment facility shall be adequately protected by fencing.
3. The proper operation and maintenance of the listed sewage treatment facility shall be performed, or supervised, by a certified operator possessing at least a Class I certificate for Wastewater System Operators as issued by the State of West Virginia. The on-site attendance of this facility's Class I operator shall be determined and directed by the Bureau for Public Health, Office of Environmental Health Services.
4. The arithmetic mean of values for effluent samples collected in a seven (7) consecutive day period shall not exceed 45.0 mg/l for five (5) day Biochemical Oxygen Demand (BOD5) and Total Suspended Solids (TSS). Furthermore, the permittee may submit mitigating factors as an attachment to its DMRs related to an excursion of this requirement. The Director may choose to take those mitigating factors into consideration in determining whether enforcement action is required.
5. The permittee shall submit each month according to the enclosed format, a Discharge Monitoring Report (DMR) indicating in terms of concentration and/or quantities the values of the constituents listed in Section A analytically determined to be in the plant effluent(s). Additional information pertaining to effluent monitoring and reporting can be found in Section III of Appendix A.
6. The required DMRs shall be received by the agency no later than 25 days following the end of the reporting period in accordance with the following requirements. The agency is now requiring the permittee to utilize our electronic discharge monitoring report (eDMR) system which is now mandatory. The permittee is not required to submit hard copies of the DMRs to the addresses listed below when using eDMR. Special circumstances may result in the agency granting an exemption to eDMR and are considered on case by case basis. If the permittee was exempted by the agency from using the eDMR system, then the permittee is required to send hard copies to the addresses below. The permittee may contact the agency for more information about the eDMR system and potential exemptions from using it. Regardless, in accordance with Appendix A, Section III.6 of this permit, the permittee shall maintain copies of DMRs (either hard copies or electronic copies) at the plant site and the DMRs shall be made readily available upon request for DEP personnel.

Director
Division of Water and Waste Management
601 57th Street SE
Charleston, West Virginia 25304-2345
Attention: Permitting Program

Department of Environmental Protection
Environmental Enforcement
1159 Nick Rahall Greenway
Fayetteville, West Virginia 25840
7. In conjunction with all other reporting requirements of this permit, copies of all future correspondence regarding this permit will be forwarded to the Environmental Inspector and Environmental Inspector Supervisor at the following address:

Department of Environmental Protection
Environmental Enforcement
1159 Nick Rahall Greenway
Fayetteville, West Virginia 25840
8. The permittee shall not accept any new non-domestic discharges without first obtaining approval from the Director of the Division of Water and Waste Management as provided in Title 47, Series 10, Section 14 of the West Virginia Legislative Rules.
9. If any existing non-domestic discharge causes, or is suspected of causing, interference or pass through (as defined by 40 CFR 403.3) or otherwise violates any provision of 40 CFR 403, the permittee shall notify the Director of such violation or suspected violation.

Section C - Other Requirements

10. If any existing non-domestic discharge is identified as being subject to Categorical Pretreatment Standard under 40 CFR Chapter 1, Subchapter N, and the discharge is not regulated by this permit, the permittee shall notify the Director of such identification.
11. The average daily design flow of the Publicly Owned Treatment Works has been established at 0.23 million gallons per day.
12. The permittee shall continue to implement a program to identify and eliminate sources of infiltration and inflow (I/I). A written report shall be provided on a quarterly basis, as an attachment to the Discharge Monitoring Report, detailing what has been performed in relation to the implementation and accomplishments of the I/I elimination program. Failure of the permittee to comply with this requirement shall result in subsequent administrative and/or legal action, as may be necessary, in order to obtain the compliance sought herein.
13. The Director shall allow the addition of one (1) gallon of sewage flow for every two (2) gallons of extraneous I/I removed. The permittee shall provide data to the Director, as a part of the quarterly I/I rehabilitation program report submittal that will document the quantified removal of extraneous flows in correlation to the making of future significant service connections in accordance with the leniency afforded herein. The permittee must obtain prior approval for future connections except for individual homes. Failure of the permittee to comply with this requirement shall result in subsequent administrative and/or legal action, as may be necessary, in order to obtain the compliance sought herein.
14. Effluent monitoring for the following pollutants shall be conducted using the most sensitive methods and detection levels commercially available and economically feasible. The following methods are to be used unless the permittee desires to use an EPA Approved Test Method with a listed lower method detection level. Regardless, it is recognized that detection levels can vary from analysis to analysis and that non-detect results at a different MDL for the specified test method would not constitute a permit violation.

Parameter	EPA Method No.	Method Detection Level (ug/l)
Copper, Total Recoverable	200.8	0.5
Lead, Total Recoverable	200.8	0.6
Zinc, Total Recoverable	200.8	1.8

15. The analytical test procedures, set forth in 40 CFR Part 136, prescribe colorimetric methods for certain parameters. The digestion process for the performance of total recoverable is not sufficient for the utilization of a colorimetric procedure. Therefore, colorimetric procedures shall not be acceptable for the analysis of parameters prescribed as total recoverable.
16. Over the term of this permit, the permittee is allowed one (1) excursion(s) of the maximum daily fecal coliform effluent limitation prescribed in Section A.001. The number of allowed excursions is based upon one (1) percent of the number of required self-monitoring events. Utilization of the excursion allowance is conditioned as follows:
 - a. Excursion allowances are afforded only to self-monitoring results and only when self-monitoring activities assess compliance with the maximum daily effluent limitation by analysis of an individual grab sample. No excursion allowance can be applied to analytical results obtained by representatives of the Director in the performance of their compliance assessment activities. Additionally, representatives of the Director may assess compliance with the maximum daily effluent limitation by collection and analysis of an individual grab sample.
 - b. The excursion allowance is contingent upon the permittee's prompt return to compliance as evidenced by the next required fecal coliform self-monitoring event.
 - c. The result for which an excursion allowance is claimed shall be included in the calculation of the average monthly effluent value.
 - d. Should an excursion allowance be utilized by the permittee, said allowance must be reported as an attachment to the Discharge Monitoring Report. This attachment should state that (1) an excursion allowance was taken in accordance with the conditions outlined above, (2) the total number of allowances taken to date during the term of this permit, and (3) the total number of allowances remaining during the term of this permit. The permittee shall maintain an on-site record of the excursion allowances utilized during the term of the permit.

Section C - Other Requirements

17. The permittee shall be required to test Outlet No. 001 wastewater treatment plant influent in order to calculate the percent (%) removal parameters for five day BOD5 and TSS contained in Section A.001 of this permit. Influent sampling requirements include:
- Percent removal shall be defined as a percentage expression of the removal efficiency across the wastewater treatment plant for a given pollutant parameter, as determined from the thirty day average values of the influent concentrations to the facility and the thirty day average effluent pollutant concentrations. Only influent and effluent samples taken concurrently as specified below shall be used for reporting.
 - Influent BOD5 and TSS samples shall be collected using the permittee's established sampling schedule at least one (1) time per month (once/month) for the wastewater treatment facility.
 - The permittee shall collect representative BOD5 and TSS influent samples using their established sampling procedures over an eight (8) hour period.
 - Influent BOD5 and TSS sampling for percent removal calculation shall be performed over the same eight (8) hour time period as the effluent BOD5 and TSS sampling was done.
18. Any "not detected (ND)" results by the permittee must be "ND" at the method detection limit (MDL) for the test method used for that parameter and must be reported as less than the MDL used. The permittee may not report the result as zero, "ND", or report the result as less than a minimum level (ML), reporting limit (RL), or practical quantitation limit (PQL).

When averaging values of analytical results for DMR reporting purposes for monthly averages, the permittee should use actual analytical results when these results are greater than or equal to the MDL and should use zero (0) when these results are less than the MDL. If all analytical results are non-detect at the MDL (<MDL), then the permittee should use the actual MDL in the calculation for averaging and report the result as less than the average calculation.

19. Available sampling methods for total residual chlorine (TRC) are currently not sensitive enough to confirm compliance with the permit limitations imposed for the new treatment plant. TRC samples shall be taken, preserved and analyzed in accordance with the latest edition of 40 CFR Part 136. Because the permittee does not operate a certified wastewater laboratory at the plant site but still must comply with the instantaneous sample-type requirements, the permittee shall use an EPA Approved Method with at least a method detection level (MDL) of 100 ug/l (0.1 mg/l). Any TRC sampling result reported as less than the MDL stated above shall be assumed to confirm compliance for purposes of permit compliance. Should a more sensitive EPA approved method become available for field analysis of TRC, the permittee shall perform TRC self-monitoring in accordance with the new method. If the new method is not sensitive enough to determine compliance with specified TRC limits, analytical results reported as "not detected" at the MDL of the new method will be deemed compliant for purposes of permit compliance.
20. Quarterly reporting periods are January 1 - March 31, April 1 - June 30, July 1 - September 30 and October 1 - December 31.
21. Unless otherwise authorized under Section A of this permit, any discharge from any point other than a permitted treatment outfall or permitted combined sewer system is expressly prohibited. In the event there is a prohibited discharge from a sewer conveyance system, the permittee shall follow the reporting requirements contained in Appendix A, Part IV, Section 2.
22. The Total Hardness sample(s) as provided in Section A.001 are to be collected from the receiving stream at a point immediately downstream of, and after mixing with, the effluent discharge.

Section D - Sewage Sludge Management Requirements

1. The permittee shall monitor and report monthly on the enclosed Sewage Sludge Management Report form the quality and quantity of sewage sludge produced. The required report shall be received by the agency no later than 25 days following the end of the reporting period in accordance with the following requirements. The agency is now requiring the permittee to utilize our electronic discharge monitoring report (eDMR) system which is now mandatory. The permittee is not required to submit hard copies of the DMRs to the addresses listed below when using eDMR. Special circumstances may result in the agency granting an exemption to eDMR and are considered on case by case basis. If the permittee was exempted by the agency from using the eDMR system, then the permittee is required to send hard copies to the addresses below. The permittee may contact the agency for more information about the eDMR system and potential exemptions from using it. Regardless, in accordance with Appendix A, Section III.6 of this permit, the permittee shall maintain copies of DMRs (either hard copies or electronic copies) at the plant site and the DMRs shall be made readily available upon request for DEP personnel.

Director
Division of Water and Waste Management
601 57th Street, SE
Charleston, West Virginia 25304
Attn: Permitting Branch

Department of Environmental Protection
Environmental Enforcement
1159 Nick Rahall Greenway
Fayetteville, West Virginia 25840

2. The permittee shall provide copies of monthly reports to the county or regional solid waste authority in which the facility or land application site(s) is located.
3. The Sewage Sludge Monitoring Report form shall be submitted semi-annually. The required report shall be received by the agency no later than 25 days following the end of the reporting period in accordance with the following requirements. The agency is now requiring the permittee to utilize our electronic discharge monitoring report (eDMR) system which is now mandatory. The permittee is not required to submit hard copies of the DMRs to the addresses listed below when using eDMR. Special circumstances may result in the agency granting an exemption to eDMR and are considered on case by case basis. If the permittee was exempted by the agency from using the eDMR system, then the permittee is required to send hard copies to the addresses below. The permittee may contact the agency for more information about the eDMR system and potential exemptions from using it. Regardless, in accordance with Appendix A, Section III.6 of this permit, the permittee shall maintain copies of DMRs (either hard copies or electronic copies) at the plant site and the DMRs shall be made readily available upon request for DEP personnel.

Director
Division of Water and Waste Management
601 57th Street, SE
Charleston, West Virginia 25304
Attn: Permitting Branch

Department of Environmental Protection
Environmental Enforcement
1159 Nick Rahall Greenway
Fayetteville, West Virginia 25840

4. In conjunction with all other reporting requirements of this permit, copies of all future correspondence regarding this permit will be forwarded to the Environmental Inspector and Environmental Inspector Supervisor at the following address:

The following method(s) of sludge disposal shall be used for sewage sludge generated and/or processed at the permitted facility:

Department of Environmental Protection
Environmental Enforcement
1159 Nick Rahall Greenway
Fayetteville, West Virginia 25840

5. The following method(s) of sludge disposal shall be used for sewage sludge generated and/or processed at the permitted facility:

Section D - Sewage Sludge Management Requirements

5. a. Land Application: Sewage sludge shall not be applied in a manner or in an amount that would cause the land application site(s) to exceed the annual, five (5) year cumulative, and lifetime loading rates as listed below. The following site(s) may be used for land application:

Land Application Site(s)	Maximum Annual Loading Rate(s) Tons/Acre	Five (5) Year Cumulative Loading Rate(s) Tons/Acre	Lifetime Loading Rate(s) Tons/Acre

Russell Bypass			
Field A1	2.2	8.9	141
Field A3	2.2	8.9	141

- b. Landfill Disposal: Sewage sludge may also be disposed at a landfill by placing the sewage sludge in the landfill cell, provided that the landfill obtains approval from the Division of Water and Waste Management to allow the acceptance of sewage sludge from the permittee, and provided that the landfill(s) is/are identified in the permit application. Prior approval by the Division of Water and Waste Management is required to change landfill disposal site(s).
6. Sewage sludge shall not be applied to land that has any of the following siting restrictions and/or location standards:
- Land that is frozen, snow-covered, or known to be flooded on a regular basis unless the applicant can demonstrate to the Secretary that the land application will not cause runoff into streams or wetlands.
 - Land that is within 50 feet of surface water including any streams, springs, ponds, wetlands, or other collection points for surface water.
 - Land that is within 200 feet of drinking water supply wells or other personal water supply.
 - Land that is within 200 feet of an occupied dwelling.
 - Land that is within 50 feet of a federal or state highway.
 - Land that is within 100 feet of an adjacent property owner's property line.
 - Land that drains into a sinkhole.
 - Land that has been tested and determined to have a pH of less than 6.2 S.U., unless the pH is adjusted to 6.2 S.U. or greater.
 - Land that has a slope greater than 15 percent.
 - Land that has a seasonal high groundwater table less than two (2) feet from the surface.
 - Land that has less than 6 inches of soil over bedrock or an impervious pan.
 - Land that contains soil with surface permeability of less than 0.6 inches/hour or greater than 6 inches/hour.
 - Land that, if sewage sludge was applied, is likely to adversely affect a threatened or endangered species listed under Section 4 of the Endangered Species Act or its designated critical habitat.
 - Other land determined by the Secretary to be unsuitable for application of sewage sludge.
7. The following requirements concerning crops grown on land used for application of sewage sludge, the time requirements between application of sewage sludge and the harvesting of crops, and the restrictions on animal grazing and public access shall be met:
- Food crops with harvested parts that touch the sewage sludge/soil mixture and are totally above the land surface shall not be harvested for 14 months after application of sewage sludge.
 - Food crops with harvested parts below the surface of the land shall not be harvested for 20 months after application of sewage sludge when the sewage sludge remains on the land surface for four (4) months or longer prior to incorporation into the soil.

Section D - Sewage Sludge Management Requirements

7. c. Food crops with harvested parts below the surface of the land shall not be harvested for 38 months after application of sewage sludge when the sewage sludge remains on the land surface for less than four (4) months prior to incorporation into the soil.
- d. Food crops (human consumption), feed crops (animal consumption), and fiber crops shall not be harvested for 30 days after application of sewage sludge.
- e. Animals shall not be allowed to graze on the land for 30 days after application of sewage sludge.
- f. Turf grown on land where sewage sludge is applied shall not be harvested for one (1) year after application of the sewage sludge when the harvested turf is placed on either land with a high potential for public exposure or a lawn, unless otherwise specified by the permitting authority.
- g. Public access to land with a high potential for public exposure shall be restricted for one year after application of sewage sludge.
- h. Public access to land with a low potential for public exposure shall be restricted for 30 days after application of sewage sludge.
8. Sewage sludge shall not be stored at a land application site for a period longer than one week; except, storage can be allowed for a period not to exceed three months when provisions, approved by the Director of the Division of Water and Waste Management of the Department, are made to prevent leachate runoff to the surface water and/or groundwater.
9. Sewage sludge shall only be land applied during the hours of daylight.
10. Sewage sludge which is land applied shall not contain excessive amounts of other solid waste materials, as defined in Title 33, Series 2, Section 2.34 of the Legislative Rules.
11. Areas used for processing, curing, and/or storage of sewage sludge shall be designed, constructed and operated to prevent release of contaminants to the groundwater and/or surface water.
12. The land application site(s) shall maintain the soil pH at a minimum of 6.2 S.U. for at least five (5) years from the date of application. The soil pH and soil nutrients shall be monitored once per year by obtaining a composite sample of each field utilized for land application during the previous year. The composite samples shall be made up of a minimum of four (4) aliquots taken at locations equally spaced through the land application site(s). The samples may be analyzed through the WVU Extension Service or by other certified laboratories.
13. All analyses performed on soils and sewage sludges shall be analyzed in accordance with analytical methods listed in 40 CFR Part 503.8 except that Nutrients may be analyzed in accordance with the most recently approved edition of Standard Methods and pH may be analyzed using EPA Method 9045D. Additionally, Fecal Coliform samples shall be prepared for analysis by using the method described in EPA 625R-92/013, Appendix F.
14. Sewage sludge disposed in a landfill cell shall be a non-hazardous material as defined in 40 CFR Part 261.24 and a minimum of 20 percent solids. If the sewage sludge is not 20 percent solids, a bulking agent may be used to achieve 20 percent solids before the sewage sludge is weighed in at the landfill. Alternative sludge disposal methods at the landfill can be utilized upon obtaining prior written approval from the Director of the Division of Water and Waste Management.
15. If sewage sludge is used for revegetation, or spread in any other manner at the landfill, the sewage sludge shall meet all of the land application requirements. These requirements include vector attraction and pathogen reduction methods, heavy metals limits, and abiding by an approved loading rate based on soil analyses.
16. The following primary method for pathogen reduction shall apply to the sewage sludge or sewage sludge products:
 - a. Lime Stabilization - Lime is added to maintain the sewage sludge pH above 12.0 S.U. for at least two (2) hours after the lime addition. The permittee shall record the pH of the sewage sludge at least twice, once upon addition of lime and once two (2) hours after addition.

Section D - Sewage Sludge Management Requirements

16. b. If compliance cannot be achieved using the primary method for pathogen reduction, then the permittee must provide a written notification to the Director prior to using a secondary method so long as the secondary method has been previously approved and contained in this permit. The permittee shall not dispose of sewage sludge until providing this written notification to the Director. The following secondary method for pathogen reduction shall apply to the sewage sludge or sewage sludge products:

- (1) Fecal Coliform Analyses - Seven (7) samples are collected and analyzed separately using either MF or MPN Method. The geometric mean of these results must be less than 2,000,000 colonies/dry gram. The permittee shall maintain all laboratory bench sheets indicating all raw data used in the analyses and the calculation of the results (unless analysis was performed by a certified contract laboratory). The seven (7) individual samples shall be evenly spaced over the monitoring period with no more than one (1) sample taken in each calendar month.

17. The following primary method for vector attraction reduction shall apply to the sewage sludge or sewage sludge products:

- a. Lime Stabilization - Lime is added to maintain the sewage sludge pH above 12.0 S.U. for two (2) hours and above 11.5 S.U. for 24 hours after the lime addition. The permittee shall record the pH of the sewage sludge at the 0, 2, and 24 hour intervals of treatment, and record the duration of time (hours) that the pH is maintained at or above the specified minimum levels.
- b. If compliance cannot be achieved using the primary method for vector attraction reduction, then the permittee must provide a written notification to the Director prior to using a secondary method so long as the secondary method has been previously approved and contained in this permit. The permittee shall not dispose of sewage sludge until providing this written notification to the Director. The following secondary method for vector attraction reduction shall apply to the sewage sludge or sewage sludge products:

- (1) 38 Percent Reduction in Percent Volatile Solids - Sewage sludge is treated by an anaerobic or aerobic digestion (or dried) to achieve volatile solids reduction. The permittee shall monitor and record the volatile solids concentration (mg/kg) of raw and final sludge streams and evaluated weekly.

18. The permittee shall maintain all records and reports of all monitoring required by Section D of this permit for five (5) years after the date of monitoring or reporting. Records should include all sample results, including pathogen and vector attraction reduction monitoring; any landfill receipts; land application records, including site maps, the landowner agreement, soil sample results, daily and cumulative sludge loading rate information; copies of all required reports; and records of all data used to complete these reports.

19. The appropriate composite sampling procedures shall be based upon the particular sludge processing methods used by the permittee. The composite sampling procedures for the various methods are described as follows:

Belt Press or Vacuum Filter - During the week that the composite sample is obtained, the permittee shall take a minimum of three (3) grab samples during each day of the week that the dewatering system is in operation. These grab samples are to be mixed together and the final sample obtained from the composite. Samples should be collected at a point immediately after the dewatering operation.

Liquid Sludge - During the week that the composite sample is obtained, the permittee shall take a representative grab sample from each truck load of sewage sludge hauled during that week. These grab samples are to be mixed together and the final sample obtained from the composite. Samples should be collected from the sewage sludge being pumped into the truck or as the sewage sludge is being discharged from the truck.

Sewage Sludge Drying Beds - During the week that the composite sample is obtained, the permittee shall take a minimum of four (4) grab samples from each bed finished during that week. These grab samples are to be mixed together and the final sample obtained from the composite.

Composting or Stock Piles - The permittee shall obtain a minimum of eight (8) grab samples from the pile of finished product. These grab samples are to be mixed together and the final sample obtained from the composite.

Section D - Sewage Sludge Management Requirements

20. Written notification shall be given to the Director within five (5) days of the determination of any excursion(s) of the maximum allowable limitations for sewage sludge listed in Section A.S01 of this Permit. A written plan to identify and correct the excursion(s) must be submitted to the Director within sixty (60) days.
21. When representatives of the Director are performing compliance assessment activities that are independent of the data provided by the permittee, no single instantaneous grab sample of the final sewage sludge product shall exceed the values found below as listed in Table 2 of the West Virginia Sewage Sludge Management Regulations (Title 33, Series 2).

Metal	Concentration (mg/kg)
Arsenic	75
Cadmium	85
Chromium	3000
Copper	4300
Lead	840
Mercury	57
Molybdenum	75
Nickel	420
Selenium	100
Zinc	7500

22. Sewage sludge shall not be land applied in a manner or in an amount that will cause the land application site(s) to exceed the maximum soil concentrations for the following heavy metals:

Parameter	Maximum Allowable Limitations For Soils (mg/kg)
Arsenic	13.0
Cadmium	2.4
Chromium	290.0
Copper	92.0
Lead	85.0
Mercury	2.4
Molybdenum	4.6
Nickel	83.0*
Selenium	10.0
Zinc	290.0**

* For sandy to silt loam soils with a permeability greater than 2.0 inches per hour, the maximum allowable soil concentration for nickel is 50.0 mg/kg.

** For those sites with greater than 30% legume species, the maximum allowable soil concentration for zinc is 130.0 mg/kg for sandy to silt loam soils with permeability greater than 2.0 inches per hour and 200.0 mg/kg for other soil types.

23. All land application site(s) shall have new soil analyses performed for the metals listed in Section D.22 of this Permit when the cumulative loading reaches 50% of the assigned lifetime loading rate.
24. Should any landowner of a sludge land application site fail to comply with the terms and conditions pertaining to the landowner under an applicable landowner agreement, the permittee shall immediately contact said landowner and identify the violation causing the noncompliance with the said agreement. The permittee shall take all reasonable, escalating enforcement steps, up to and including disallowing further land application of sludge on the owner's site, in order to keep the landowner compliant with the terms and conditions of said land owner agreement. Also, the permittee shall immediately inform the Agency of any current noncompliance by the owner of a land application site by attaching a written summary of these violations, the cause of each violation, and the steps taken to prevent their recurrence with the submitted Sludge Monitoring Reports. Should the permittee take all of the enforcement steps outlined above, these actions may be used as a mitigating factor to any enforcement actions taken upon the permittee for the noncompliance by the land application site owners to the terms and conditions of Section D herein. However, the burden of proof in relation to the use of this mitigating factor shall lie exclusively upon the permittee. This condition shall not be used as a mitigating factor to any noncompliance associated with any other sections of this permit, even if said noncompliance is, in whole or in part, caused by the land application site owner.

The herein-described activity is to be extended, modified, added to, made, enlarged, acquired, constructed or installed, and operated, used and maintained strictly in accordance with the terms and conditions of this permit, with the plans and specifications submitted with Permit Application No. WV0020672; with the plan of maintenance and method of operation thereof submitted with such application(s); and with any applicable rules and regulations promulgated by the Environmental Quality Board and the Secretary of the Department of Environmental Protection.

Failure to comply with the terms and conditions of this permit, with the plans and specifications submitted with Permit Application No. WV0020672; and with the plan of maintenance and method of operation thereof submitted with such application(s) shall constitute grounds for the revocation or suspension of this permit and the invocation of all the enforcement procedures set forth in Chapter 22, Article 11, or 15 of the Code of West Virginia.

This permit is issued in accordance with the provisions of Chapter 22, Article 11 and 12 and/or 15 of the Code of West Virginia and is transferable under the terms of Section 11 of Article 11.

Harold D. Ward

Harold D. Ward, Acting Director

Appendix A

I. MANAGEMENT CONDITIONS:

1. Duty to Comply

- a) The permittee must comply with all conditions of this permit. Permit noncompliance constitutes a violation of the CWA and State Act and is grounds for enforcement action; for permit modification, revocation and reissuance, suspension or revocation; or for denial of a permit renewal application.
- b) The permittee shall comply with all effluent standards or prohibitions established under Section 307(a) of the CWA for toxic pollutants within the time provided in the regulations that establish these standards or prohibitions, even if the permit has not yet been modified to incorporate the requirement.

2. Duty to Reapply

If the permittee wishes to continue an activity regulated by this permit after the expiration date of this permit, the permittee must apply for a new permit at least 180 days prior to expiration of the permit.

3. Duty to Mitigate

The permittee shall take all reasonable steps to minimize or prevent any discharge in violation of this permit, which has a reasonable likelihood of adversely affecting human health or the environment.

4. Permit Actions

This permit may be modified, revoked and reissued, suspended, or revoked for cause. The filing of a request by the permittee for permit modification, revocation and reissuance, or revocation, or a notification of planned changes or anticipated noncompliance, does not stay any permit condition.

5. Property Rights

This permit does not convey any property rights of any sort or any exclusive privilege.

6. Signatory Requirements

All applications, reports, or information submitted to the Director shall be signed and certified as required in Title 47, Series 10, Section 4.6 of the West Virginia Legislative Rules.

7. Transfers

This permit is not transferable to any person except after notice to the Director. The Director may require modification or revocation and reissuance of the permit to change the name of the permittee and incorporate such other requirements as may be necessary.

8. Duty to Provide Information

The permittee shall furnish to the Director, within a reasonable specified time, any information which the Director may request to determine whether cause exists for modifying, revoking and reissuing, suspending, or revoking this permit, or to determine compliance with this permit. The permittee shall also furnish to the Director, upon request, copies of records required to be kept by this permit.

9. Other Information

Where the permittee becomes aware that it failed to submit any relevant facts in a permit application, or submitted incorrect information in a permit application or in any report to the Director, it shall promptly submit such facts or information.

10. Inspection and Entry

The permittee shall allow the Director, or an authorized representative, upon the presentation of credentials and other documents as may be required by law, to:

- a) Enter upon the permittee's premises in which an effluent source or activity is located, or where records must be kept under the conditions of this permit;
- b) Have access to and copy at reasonable times, any records that must be kept under the conditions of this permit;
- c) Inspect at reasonable times any facilities, equipment (including monitoring and control equipment), practices, or operations regulated or required under this permit; and
- d) Sample or monitor at reasonable times, for the purposes of assuring permit compliance or as otherwise authorized by the State Act, any substances or parameters at any location.

11. Permit Modification

This permit may be modified, suspended, or revoked in whole or in part during its term in accordance with the provisions of Chapter 22-11-12 of the Code of West Virginia.

12. Water Quality

This discharge shall not cause or materially contribute to: distinctly visible floating or settleable solids, suspended solids, scum, foam or oily slicks; deposits or sludge bank on the bottom; odors in the vicinity of the waters; taste or odor that would adversely affect the designated uses of the affected waters; distinctly visible color which may impair or interfere with the designated uses of the affected waters; and shall not cause a fish or mussel kill. The limitations and conditions in this permit for the discharges identified in this permit are limitations and conditions that are necessary to meet applicable West Virginia water quality standards, Requirements Governing Water Quality Standards 47 CSR 2.

13. Outlet Markers

A permanent marker at the establishment shall be posted in accordance with Title 47, Series 11, Section 9 of the West Virginia Legislative Rules.

14. Liabilities

- a) Any person who violates a permit condition implementing sections 301, 302, 306, 307, 308, 318, or 405 of the Clean Water Act is subject to a civil penalty not to exceed \$25,000 per day of such violation. Any person who willfully or negligently violates permit conditions implementing sections 301, 302, 306, 307, 308 or 405 of the Clean Water Act is subject to a fine of not less than \$2,500 nor more than \$25,000 per day of violation, or by imprisonment for not more than 1 year, or both.
- b) Any person who falsifies, tampers with, or knowingly renders inaccurate any monitoring device or method required to be maintained under this permit shall, upon conviction, be punished by a fine of not more than \$10,000 per violation, or by imprisonment for not more than 2 years, or by both.
- c) Any person who knowingly makes any false statement, representation, or certification in any record or other document submitted or required to be maintained under this permit, including monitoring reports or reports of compliance or noncompliance shall, upon conviction, be punished by a fine of not more than \$10,000 per violation, or by imprisonment for not more than 2 years, or by both.
- d) Nothing in 1.14 a), b), and c) shall be construed to limit or prohibit any other authority the Director may have under the State Water Pollution Control Act, Chapter 22, Article 11.

II. OPERATION AND MAINTENANCE:

1. Proper Operation and Maintenance

The permittee shall at all times properly operate and maintain all facilities and systems of treatment and control (and related appurtenances) which are installed or used by the permittee to achieve compliance with the conditions of this permit. Proper operation and maintenance also includes adequate laboratory controls, and appropriate quality assurance procedures. Unless otherwise required by Federal or State law, this provision requires the operation of back-up auxiliary facilities or similar systems which are installed by the permittee only when the operation is necessary to achieve compliance with the conditions of the permit. For domestic waste treatment facilities, waste treatment operators as classified by the WV Bureau of Public Health Laws, W. Va. Code Chapter 16-1, will be required except that in circumstances where the domestic waste treatment facility is receiving any type of industrial waste, the Director may require a more highly skilled operator.

2. Need to Halt or Reduce Activity Not a Defense

It shall not be a defense for a permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of the permit.

3. Bypass

- a) Definitions
 - (1) "Bypass" means the intentional diversion of waste streams from any portion of a treatment facility; and
 - (2) "Severe property damage" means substantial physical damage to property, damage to the treatment facilities which causes them to become inoperable, or substantial and permanent loss of natural resources which can reasonably be expected to occur in the absence of a bypass. Severe property damage does not mean economic loss caused by delays in production.
- b) Bypass not exceeding limitations. The permittee may allow any bypass to occur which does not cause effluent limitations to be exceeded, but only if it also is for essential maintenance to assure efficient operation. These bypasses are not subject to the provision of II.3.c) and II.3.d) of this permit.
- c)
 - (1) If the permittee knows in advance of the need for a bypass, it shall submit prior notice, if possible at least ten (10) days before the date of the bypass;
 - (2) If the permittee does not know in advance of the need for bypass, notice shall be submitted as required in IV.2.b) of this permit.
- d) Prohibition of bypass
 - (1) Bypass is permitted only under the following conditions, and the Director may take enforcement action against a permittee for a bypass, unless:
 - (A) Bypass was unavoidable to prevent loss of life, personal injury, or severe property damage;
 - (B) There were no feasible alternatives to the bypass, such as the use of auxiliary treatment facilities, retention of untreated wastes, or maintenance during normal periods of equipment downtime. This condition is not satisfied if adequate backup equipment should have been installed in the exercise of reasonable engineering judgement to prevent a bypass which occurred during normal periods of equipment downtime or preventative maintenance; and
 - (C) The permittee submitted notices as required under II.3.c) of this permit.
 - (2) The Director may approve an anticipated bypass, after considering its adverse effects, if the Director determines that it will meet the three conditions listed in II.3.d.(1) of this permit.

4. Upset

- a) Definition. "Upset" means an exceptional incident in which there is unintentional and temporary noncompliance with technology-based permit effluent limitations because of factors beyond the reasonable control of the permittee. An upset does not include noncompliance to the extent caused by operational error, improperly designed treatment facilities, inadequate treatment facilities, lack of preventative maintenance, or careless or improper operation.
- b) Effect of an upset. An upset constitutes an affirmative defense to an action brought for noncompliance with such technology-based permit effluent limitation if the requirements of II.4.c) are met. No determination made during administrative review of claims that noncompliance was caused by upset, and before an action for noncompliance, is final administrative action subject to judicial review.
- c) Conditions necessary for a demonstration of upset. A permittee who wishes to establish the affirmative defense of upset shall demonstrate, through properly signed, contemporaneous operating logs, or other relevant evidence that:
 - (1) An upset occurred and that the permittee can identify the cause(s) of the upset;
 - (2) The permitted facility was at the time being properly operated;
 - (3) The permittee submitted notice of the upset as required in IV.2.b) of this permit.
 - (4) The permittee complied with any remedial measures required under I.3. of this permit.
- d) Burden of proof. In any enforcement proceeding the permittee seeking to establish the occurrence of an upset has the burden of proof.

5. Removed Substances

Where removed substances are not otherwise covered by the terms and conditions of this permit or other existing permit by the Director, any solids, sludges, filter backwash or other pollutants (removed in the course of treatment or control of wastewaters) and which are intended for disposal within the State, shall be disposed of only in a manner and at a site subject to the approval by the Director. If such substances are intended for disposal outside the State or for reuse, i.e., as a material used for making another product, which in turn has another use, the permittee shall notify the Director in writing of the proposed disposal or use of such substances, the identity of the prospective disposer or users, and the intended place of disposal or use, as appropriate.

III. MONITORING AND REPORTING

1. Representative Sampling

Samples and measurements taken for the purpose of monitoring shall be representative of the monitored activity.

2. Reporting

- a) Permittee shall submit, according to the enclosed format, a Discharge Monitoring Report (DMR) indicating in terms of concentration, and/or quantities, the values of the constituents listed in Part A analytically determined to be in the plant effluent(s). DMR submissions shall be made in accordance with the terms contained in Section C of this permit.
- b) Enter reported average and maximum values under "Quantity" and "Concentration" in the units specified for each parameter, as appropriate.
- c) Specify the number of analyzed samples that exceed the allowable permit conditions in the columns labeled "N.E." (i.e., number exceeding).
- d) Specify frequency of analysis for each parameter as number of analyses/specified period (e.g., 3/month is equivalent to 3 analyses performed every calendar month). If continuous, enter "Cont.". The frequency listed on format is the minimum required.

3. Test Procedures

Samples shall be taken, preserved and analyzed in accordance with the latest edition of 40 CFR Part 136, unless other test procedures have been specified elsewhere in this permit.

4. Recording of Results

For each measurement or sample taken pursuant to the permit, the permittee shall record the following information.

- a) The date, exact place, and time of sampling or measurement;
- b) The date(s) analyses were performed;
- c) The individual(s) who performed the sampling or measurement;
- d) The individual(s) who performed the analyses; if a commercial laboratory is used, the name and address of the laboratory;
- e) The analytical techniques or methods used, and
- f) The results of such analyses. Information not required by the DMR form is not to be submitted to this agency, but is to be retained as required in III. 6.

5. Additional Monitoring by Permittee

If the permittee monitors any pollutant at any monitoring point specified in this permit more frequently than required by this permit, using approved test procedures or others as specified in this permit, the results of this monitoring shall be included in the calculation and reporting of the data submitted in the Discharge Monitoring Report Form. Such increased frequency shall also be indicated. Calculations for all limitations which require averaging of measurements shall utilize an arithmetic mean unless otherwise specified in the permit.

6. Records Retention

The permittee shall retain records of all monitoring information, including all calibration and maintenance records and all original chart recordings for continuous monitoring instrumentation, copies of all reports required by this permit, and records of all data used to complete the application for the permit, for a period of at least three (3) years from the date of the sample, measurement, report or application. This period may be extended by request of the Director at any time.

7. Definitions

- a) "Daily discharge" means the discharge of a pollutant measured during a calendar day or within any specified period that reasonably represents the calendar day for purposes of sampling. For pollutants with limitations expressed in units of mass, the daily discharge is calculated as the total mass of the pollutant discharged over the day. For pollutants with limitations expressed in other units of measurement, the daily discharge is calculated as the average measurement of the pollutant over the day.
- b) "Average monthly discharge limitation" means the highest allowable average of daily discharges over a calendar month, calculated as the sum of all daily discharges measured during a calendar month divided by the number of daily discharges measured during that month.
- c) "Maximum daily discharge limitation" means the highest allowable daily discharge.
- d) "Composite Sample" is a combination of individual samples obtained at regular intervals over a time period. Either the volume of each individual sample is proportional to discharge flow rates or the sampling interval (for constant volume samples) is proportional to the flow rates over the time period used to produce the composite. The maximum time period between individual samples shall be two hours.
- e) "Grab Sample" is an individual sample collected in less than 15 minutes.
- f) "is" = immersion stabilization - a calibrated device is immersed in the effluent stream until the reading is stabilized.
- g) The "daily average temperature" means the arithmetic average of temperature measurements made on an hourly basis, or the mean value plot of the record of a continuous automated temperature recording instrument, either during a calendar month, or during the operating month if flows are of shorter duration.
- h) The "daily maximum temperature" means the highest arithmetic average of the temperatures observed for any two (2) consecutive hours during a 24 hour day, or during the operating day if flows are of shorter duration.
- i) The "monthly average fecal coliform" bacteria is the geometric average of all samples collected during the month.
- j) "Measured Flow" means any method of liquid volume measurement, the accuracy of which has been previously demonstrated in engineering practice, or which a relationship to absolute volume has been obtained.
- k) "Estimate" means to be based on a technical evaluation of the sources contributing to the discharge including, but not limited to pump capabilities, water meters and batch discharge volumes.
- l) "Non-contact cooling water" means the water that is contained in a leak-free system, i.e., no contact with any gas, liquid, or solid other than the container for transport; the water shall have no net poundage addition of any pollutant over intake water levels, exclusive of approved anti-fouling agents.

IV. OTHER REPORTING

1. Reporting Spills and Accidental Discharges

Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to Title 47, Series 11, Section 2 of the West Virginia Legislative Rules promulgated pursuant to Chapter 22, Article 11. Attached is a copy of the West Virginia Spill Alert System for use in complying with Title 47, Series 11, Section 2 of the Legislative rules as they pertain to the reporting of spills and accidental discharges.

2. Immediate Reporting

- a) The permittee shall report any noncompliance which may endanger health or the environment immediately after becoming aware of the circumstances by using the Agency's designated spill alert telephone number. A written submission shall be provided within five (5) days of the time the permittee becomes aware of the circumstances. The written submission shall contain a description of the noncompliance and its cause; the period of noncompliance, including exact dates and times, and if the noncompliance has not been corrected, the anticipated time it is expected to continue; and steps taken or planned to reduce, eliminate, and prevent recurrence of the noncompliance.
- b) The following shall also be reported immediately:
 - (1) Any unanticipated bypass which exceeds any effluent limitation in the permit;
 - (2) Any upset which exceeds any effluent limitation in the permit; and
 - (3) Violation of a maximum daily discharge limitation for any of the pollutants listed by the Director in the permit shall be reported immediately. This list shall include any toxic pollutant or hazardous substance, or any pollutant specifically identified as the method to control a toxic pollutant or hazardous substance.
- c) The Director may waive the written report on a case-by-case basis if the oral report has been received in accordance with the above.
- d) Compliance with the requirements of IV.2 of this section, shall not relieve a person of compliance with Title 47, Series 11, Section 2.

3. Reporting Requirements

- a) Planned changes. The permittee shall give notice to the Director of any planned physical alterations or additions to the permitted facility which may affect the nature or quantity of the discharge. Notice is required when:
 - (1) The alteration or addition to a permitted facility may meet one of the criteria for determining whether a facility is a new source in Section 13.7.b of Series 10, Title 47; or
 - (2) The alteration or addition could significantly change the nature or increase the quantity of pollutants discharged. This notification applies to pollutants which are subject neither to effluent limitations in the permit, nor to notification requirements under IV.2 of this section.
- b) Anticipated noncompliance. The permittee shall give advance notice to the Director of any planned changes in the permitted facility or activity which may result in noncompliance with permit requirements.
- c) In addition to the above reporting requirements, all existing manufacturing, commercial, and silvicultural discharges must notify the Director in writing as soon as they know or have reason to believe:
 - (1) That any activity has occurred or will occur which would result in the discharge, on a routine or frequent basis, or any toxic pollutant which is not limited in the permit, if that discharge will exceed the highest of the following "notification levels":
 - (A) One hundred micrograms per liter (100 ug/l);
 - (B) Two hundred micrograms per liter (200 ug/l) for acrolein and acrylonitrile; five hundred micrograms per liter (500 ug/l) for 2,4-dinitro phenol; and for 2-methyl 4,6-dinitrophenol; and one milligram per liter (1 mg/l) for antimony;
 - (C) Five (5) times the maximum concentration value reported for that pollutant in the permit application in accordance with Section 4.4.b.9 of Series 10, Title 47.
 - (D) The level established by the Director in accordance with Section 6.3.g of Series 10, Title 47;
 - (2) That any activity has occurred or will occur which would result in any discharge (on a non-routine or infrequent basis) of a toxic which is not limited in the permit, if that discharge will exceed the highest of the following "notification levels":
 - (A) Five hundred micrograms per liter (500 ug/l);
 - (B) One milligram per liter (1 mg/l) for antimony;
 - (C) Ten (10) times the maximum concentration value reported for that pollutant in the permit application in accordance with Section 4.4.b.7 of Series 10, Title 47;
 - (D) The level established by the Director in accordance with Section 6.3.g of Series 10, Title 47.
 - (3) That they have begun or expect to begin to use or manufacture as an intermediate or final product or by-product of any toxic pollutant which was not reported in the permit application under Section 4.4.b.9 of Series 10, Title 47 and which will result in the discharge on a routine or frequent basis of that toxic pollutant at levels which exceed five times the detection limit for that pollutant under approved analytical procedure.
 - (4) That they have begun or expect to begin to use or manufacture as an intermediate or final product or by-product of any toxic pollutant which was not reported in the permit application under Section 4.4.b.9 of Series 10, Title 47 and which will result in the discharge on a non-routine or infrequent basis of that toxic pollutant at levels which exceed ten times the detection limit for that pollutant under approved analytical procedure.

4. Other Noncompliance

The permittee shall report all instances of noncompliance not reported under the above paragraphs at the time monitoring reports are submitted. The reports shall contain the information listed in IV.2.a). Should other applicable noncompliance reporting be required, these terms and conditions will be found in Section C of this permit.

STATE OF WEST VIRGINIA
NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM
DISCHARGE MONITORING REPORT

Permit Limits

FACILITY NAME: ANSTED TOWN DEJANSTED, TOWN OF

CERTIFIED LABORATORY NAME: _____

LOCATION OF FACILITY: ANSTED, Fayette County

CERTIFIED LABORATORY ADDRESS: _____

PERMIT NO.: WV0020872

001

WASTELOAD FOR THE MONTH OF: _____

INDIVIDUAL PERFORMING ANALYSIS: _____

Parameter	Reported	Quantity			Units	N.E.	Other Units				CEL*	Units	N.E.	Measurement Frequency	Sample Type
50050 (ML-1) RF-A Flow in Conduit or thru plant Year Round	Reported														
	Permit Limits	N/A	N/A				Rpt Only Minimum	Rpt Only Avg. Monthly	Rpt Only Max. Daily		N/A	mgd		Continuous	measured
00310 (ML-B) RF-A BOD, 5-Day 20 Deg. C Year Round	Reported														
	Permit Limits	58 Avg. Monthly	115 Max. Daily		Lbs/Day		N/A	30 Avg. Monthly	60 Max. Daily		N/A	mg/l		1/month	8 hr comp
00530 (ML-A) RF-A Total Suspended Solids Year Round	Reported														
	Permit Limits	58 Avg. Monthly	115 Max. Daily		Lbs/Day		N/A	30 Avg. Monthly	60 Max. Daily		N/A	mg/l		1/month	8 hr comp
81010 (ML-K) RF-A BOD, % Removal Year Round	Reported														
	Permit Limits	N/A	N/A				85 Month. Avg. Min	N/A	N/A		N/A	Percent		1/month	8 hr comp
81011 (ML-K) RF-A Suspended Solids, % Removal Year Round	Reported														
	Permit Limits	N/A	N/A				85 Month. Avg. Min	N/A	N/A		N/A	Percent		1/month	8 hr comp
74055 (ML-A) RF-A Coliform, Fecal Year Round	Reported														
	Permit Limits	N/A	N/A				N/A	200 Mon. Qtr. Mean	400 Max. Daily		N/A	Crits/100m		1/month	Grab

* CEL = Compliance Evaluation Level

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of a fine and imprisonment for knowing violations.		Date Completed	
Name of Principal Executive Officer		Signature of Principal Executive Officer or Authorized Agent	
Title of Officer			

STATE OF WEST VIRGINIA
NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM
DISCHARGE MONITORING REPORT

Permit Limits

FACILITY NAME: ANSTED TOWN OF ANSTED, TOWN OF

CERTIFIED LABORATORY NAME: _____

LOCATION OF FACILITY: ANSTED, Fayette County

CERTIFIED LABORATORY ADDRESS: _____

PERMIT NO.: WV0020672

001

WASTELOAD FOR THE MONTH OF: _____

INDIVIDUAL PERFORMING ANALYSIS: _____

Parameter	Quantity	Other Units			Measurement Frequency	Sample Type
		Units	N.E.	CEL*		
00400 (ML-A) RF-A pH Year Round	Reported					
	Permit Limits	N/A		N/A	1/month	Grab
00810 (ML-A) RF-A Ammonia Nitrogen Summer May 1-Oct 31	Reported					
	Permit Limits	13 Avg Monthly 28 Max Daily	N/A	N/A	1/month	8 hr comp
00810 (ML-A) RF-A Ammonia Nitrogen Winter Nov 1-Apr 30	Reported					
	Permit Limits	26 Avg Monthly 52 Max Daily	N/A	N/A	1/month	8 hr comp
50060 (ML-A) RF-A Chlorine, Total Residual Year Round	Reported					
	Permit Limits	N/A	N/A	0.1	1/month	Grab
01119 (ML-A) RF-D Copper, Total Recoverable Year Round	Reported					
	Permit Limits	N/A		N/A	1/year	8 hr comp
01114 (ML-A) RF-D Lead, Total Recoverable Year Round	Reported					
	Permit Limits	N/A	N/A	N/A	1/year	8 hr comp

* CEL = Compliance Evaluation Level

Name of Principal Executive Officer

Title of Officer

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information including the possibility of a fine and imprisonment for knowing violations.

Data Completed

Signature of Principal Executive Officer or Authorized Agent

STATE OF WEST VIRGINIA
NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM
DISCHARGE MONITORING REPORT

Permit Limits

FACILITY NAME: ANSTED TOWN OF ANSTED, TOWN OF

CERTIFIED LABORATORY NAME: _____

LOCATION OF FACILITY: ANSTED; Fayette County

CERTIFIED LABORATORY ADDRESS: _____

PERMIT NO.: WV0020672 001

WASTELOAD FOR THE MONTH OF: _____

INDIVIDUAL PERFORMING ANALYSIS: _____

Parameter	Quantity	Other Units			Measurement Frequency	Sample Type
		Units	N.E.	CEL*		
01084 (ML-A) RF-D Zinc, Total Recoverable Year Round	Reported					
	Permit Limits	N/A		N/A	1/year	8 hr comp
00900 (ML-B) RF-C Hardness, Total (as CaCO ₃) Year Round	Reported					
	Permit Limits	N/A		N/A	1/5 months	Grab

* CEL = Compliance Evaluation Level

Name of Principal Executive Officer	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information including the possibility of a fine and imprisonment for knowing violations.	Date Completed
		Signature of Principal Executive Officer or Authorized Agent
Title of Officer		

STATE OF WEST VIRGINIA
NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM
SEWAGE SLUDGE MONITORING REPORT

Permit Limits

FACILITY NAME: JANSTED TOWN OF JANSTED, TOWN OF CERTIFIED LABORATORY NAME: _____
 LOCATION OF FACILITY: ANSTED, Fayette County CERTIFIED LABORATORY ADDRESS: _____
 PERMIT NO.: WV0020872 S01

RESULTS FOR THE MONTH OF: _____

INDIVIDUAL PERFORMING ANALYSIS:

Parameter	Quantity	Other Units			CEL*	Units	N.E.	Measurement Frequency	Sample Type
		Minimum	Maximum	Report Only					
00400 (ML-1) RF-C pH Year Round	Reported								
	Permit Limits	N/A	N/A	N/A	N/A	S.U.		1/6 months	Grab
81521 (ML-1) RF-C Arsenic, Sludge Tot Dry Wt Year Round	Reported								
	Permit Limits	N/A	N/A	N/A	N/A	mg/kg		1/6 months	1 Week Comp
78476 (ML-1) RF-C Cadmium, Sludge, Tot Dry Wt Year Round	Reported								
	Permit Limits	N/A	N/A	N/A	N/A	mg/kg		1/6 months	1 Week Comp
78473 (ML-1) RF-C Chromium, Dry Wt Year Round	Reported								
	Permit Limits	N/A	N/A	N/A	N/A	mg/kg		1/6 months	1 Week Comp
78475 (ML-1) RF-C Copper, Sludge, Tot Dry Wt Year Round	Reported								
	Permit Limits	N/A	N/A	N/A	N/A	mg/kg		1/6 months	1 Week Comp
78468 (ML-1) RF-C Lead, Dry Wt Year Round	Reported								
	Permit Limits	N/A	N/A	N/A	N/A	mg/kg		1/6 months	1 Week Comp

* CEL = Compliance Evaluation Level

Name of Principal Executive Officer	Certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information including the possibility of a fine and imprisonment for knowing violations.	Date Completed
		Signature of Principal Executive Officer or Authorized Agent
Title of Officer		

STATE OF WEST VIRGINIA
NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM
SEWAGE SLUDGE MONITORING REPORT

Permit Limits

FACILITY NAME: (ANSTED TOWN OF) ANSTED, TOWN OF

CERTIFIED LABORATORY NAME:

LOCATION OF FACILITY: ANSTED, Fayette County

CERTIFIED LABORATORY ADDRESS:

PERMIT NO.: WV0020672 S01

RESULTS FOR THE MONTH OF:

INDIVIDUAL PERFORMING ANALYSIS:

Parameter	Quantity	Other Units			Measurement Frequency	Sample Type
		Units	N.E.	CEL*	Units	N.E.
78471 (ML-*) RF-C Mercury, Dry Wt. Year Round	Reported					
	Permit Limits	N/A	N/A	N/A	mg/kg	1/8 months
78485 (ML-*) RF-C Molybdenum Dry Wgt Year Round	Reported					
	Permit Limits	N/A	N/A	N/A	mg/kg	1/8 months
78489 (ML-*) RF-C Nickel, Dry Wt. Year Round	Reported					
	Permit Limits	N/A	N/A	N/A	mg/kg	1/8 months
49031 (ML-*) RF-C Selenium, Sludge, Tot Dry Wt. Year Round	Reported					
	Permit Limits	N/A	N/A	N/A	mg/kg	1/8 months
78487 (ML-*) RF-C Zinc, Dry Wt. Year Round	Reported					
	Permit Limits	N/A	N/A	N/A	mg/kg	1/8 months
00816 (ML-*) RF-C Calcium, Total (as Ca) Year Round	Reported					
	Permit Limits	N/A	N/A	N/A	mg/kg	1/8 months

* CEL = Compliance Evaluation Level

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information including the possibility of a fine and imprisonment for knowing violations.		Date Completed
Name of Principal Executive Officer 		Signature of Principal Executive Officer or Authorized Agent
Title of Officer 		

STATE OF WEST VIRGINIA
NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM
SEWAGE SLUDGE MONITORING REPORT

Permit Limits

FACILITY NAME: LANSTED TOWN OF LANSTED, TOWN OF

CERTIFIED LABORATORY NAME:

LOCATION OF FACILITY: LANSTED; Fayette County

CERTIFIED LABORATORY ADDRESS:

PERMIT NO.: WV0020872 S01

RESULTS FOR THE MONTH OF:

INDIVIDUAL PERFORMING ANALYSIS:

Parameter	Quantity	Units			N.E.	Other Units			CEL*	Units	N.E.	Measurement Frequency	Sample Type
61553 (ML- \rightarrow) RF-C Solids, Total Sludge Percent Year Round	Reported												
	Permit Limits	N/A	N/A			Rpt Only Minimum	Rpt Only Avg	Rpt Only Maximum	N/A	Percent		1/6 months	1 Week Comp
78472 (ML- \rightarrow) RF-C Potassium, Sludge Tot Dry Wt Year Round	Reported												
	Permit Limits	N/A	N/A			N/A	N/A	Rpt Only Maximum	N/A	mg/kg		1/6 months	1 Week Comp
78478 (ML- \rightarrow) RF-C Phosphorus, Sludge, Tot Dry Wt Year Round	Reported												
	Permit Limits	N/A	N/A			N/A	N/A	Rpt Only Maximum	N/A	mg/kg		1/6 months	1 Week Comp
82294 (ML- \rightarrow) RF-C Nitrogen, Ammonia Tot DW Year Round	Reported												
	Permit Limits	N/A	N/A			N/A	N/A	Rpt Only Maximum	N/A	mg/kg		1/6 months	1 Week Comp
78470 (ML- \rightarrow) RF-C Nitrogen, Sludge Tot Dry Wt Year Round	Reported												
	Permit Limits	N/A	N/A			N/A	N/A	Rpt Only Maximum	N/A	mg/kg		1/6 months	1 Week Comp
51020 (ML- \rightarrow) RF-C Organic Nitrogen Year Round	Reported												
	Permit Limits	N/A	N/A			N/A	N/A	Rpt Only Maximum	N/A	mg/kg		1/6 months	1 Week Comp

* CEL = Compliance Evaluation Level

Name of Principal Executive Officer		Date Completed	
Title of Officer		Signature of Principal Executive Officer or Authorized Agent	
<p>I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information including the possibility of a fine and imprisonment for knowing violations.</p>			

STATE OF WEST VIRGINIA
NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM
SEWAGE SLUDGE MONITORING REPORT

Permit Limits

FACILITY NAME: JANSIED TOWN OF ANSTED, TOWN OF

CERTIFIED LABORATORY NAME:

LOCATION OF FACILITY: ANSTED, Fayette County

CERTIFIED LABORATORY ADDRESS:

PERMIT NO.: WV0020872 S01

RESULTS FOR THE MONTH OF:

INDIVIDUAL PERFORMING ANALYSIS:

Parameter		Quantity			Other Units			CEL*	Units	N.E.	Measurement Frequency	Sample Type
00827 (ML→) RF-C Magnesium, Tot (as Mg) Year Round	Reported											
	Permit Limits	N/A	N/A			N/A	Rpt Only Maximum	N/A	mg/kg		1/8 months	1 Week Comp
31841 (ML→) RF-C Fecal Coliform (Sludge) Year Round	Reported											
	Permit Limits	N/A	N/A			N/A	Rpt Only Maximum	N/A	col/gr		1/8 months	Grab

* CEL = Compliance Evaluation Level

Name of Principal Executive Officer Title of Officer	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information including the possibility of a fine and imprisonment for knowing violations.		Date Completed
	Signature of Principal Executive Officer or Authorized Agent		

SEWAGE SLUDGE MANAGEMENT REPORT

FACILITY NAME: (ANSTED TOWN OF)ANSTED, TOWN OF
ADDRESS: P.O. Box 798, Ansted, WV 25812

DESIGN FLOW: 230,000 gpd
YEAR: _____
MONTH: _____

PERMIT NUMBER: WV0020672
MONITORING FREQUENCY:
LAST SAMPLE DATE:

Total Sludge Generated this Report Period: (Dry Tons)

Sludge Generated this Year to Date: (Dry Tons)

Sewage Sludge/Domestic Septage Received: (Gallons)

Percent Solids:

Average: _____ Measurement Frequency: _____

Number of Loads Landfilled With Less Than 20% Solids:

Pathogen Reduction Method:

- ☐ Not Applicable. No land application of sewage sludge.
- ☐ Fecal Coliform Monitoring: Geometric mean of last sev-

Sample results for this report period were: _____ col/dry gram
_____ col/dry gram

☐ Lime Addition: pH of sample two hours after lime addition: Range

Acrobic Digestion: Average detention time for this report period:(days)

Digester Temperature: Average	Range
55°C	50-60°C
57°C	50-65°C
58°C	50-65°C
60°C	55-65°C
62°C	55-65°C
65°C	55-70°C
68°C	60-75°C
70°C	65-75°C
72°C	65-75°C
75°C	65-75°C
78°C	65-75°C
80°C	65-75°C
82°C	65-75°C
85°C	65-75°C
88°C	65-75°C
90°C	65-75°C
92°C	65-75°C
95°C	65-75°C
98°C	65-75°C
100°C	65-75°C

☐ **Anaerobic Digestion:** Average detention time for this report period: (days) _____

Digester Temperature: Average

☐ Other: (Provide Description) _____ Range _____

☐ Other: (Provide Description) _____

✓ **Order:** (Provide Description)

Vector Attraction Reduction Method:

- ☐ Not Applicable. No land application of sewage sludge.
- ☐ 38% Volatile Solids Reduction: Average volatile solids reduction for the month of _____
- ☐ SOUR: The average Specific Oxygen Uptake rate for the month of _____
- ☐ Lime Addition: pH of sample two hours after lime addition: Range _____
pH of sample 24 hours after lime addition: Range _____
- ☐ Other: (Provide Description) _____

_____ was _____ percent
_____ was _____ mg Oxygen/hour/dry gram

NE: Number of loads land applied which did not fully meet vector attraction reduction requirements:

I certify under penalty of law that the management practices, vector attraction reduction requirements, and the pathogen reduction requirements of Federal regulations 40 CFR Part 503 and State Regulation Title 33, Series 2 have been met for all sewage sludge land applied during this report period. This determination has been made under my supervision in accordance with a system designed to ensure that qualified personnel properly gather and evaluate information used to determine these requirements have been met. I also certify that this document and all the attachments were prepared under my direction or supervision, and that the information is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are penalties for false certification including the possibility of fine and imprisonment.

OFFICIAL

TITLE

SIGNATURE

DATE _____

Additional Comments or Explanation:

**EMERGENCY RESPONSE SPILL ALERT SYSTEM
WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION**

REQUIREMENTS:

Title 47, Series 11, Section 2 of the West Virginia Legislative Rules, Environmental Protection, Water Resources - Waste Management, Effective July 1, 1994.

RESPONSIBILITY FOR REPORTING:

Each and every person who may cause or be responsible for any spill or accidental discharge of pollutants into the waters of the State shall give immediate notification to the Division of Water and Waste Management's Emergency Notification Number, 1-800-642-3074. Such notification shall set forth insofar as possible and as soon thereafter as practical the time and place of such spill or discharge, type or types and quantity or quantities of the material or materials therein, action or actions taken to stop such spill or discharge and to minimize the polluting effect thereof, the measure or measures taken or to be taken in order to prevent a recurrence of any such spill or discharge and such additional information as may be requested by the Division of Water and Waste Management. This also applies to spills to the waters of the State resulting from accidents to common carriers by highway, rail and water.

It shall be the responsibility of each industrial establishment or other entity discharging directly to a stream to have available the following information pertaining to those substances that are employed or handled in its operation in sufficiently large amounts as to constitute a hazard in case of an accidental spill or discharge into a public stream:

- (1) Potential toxicity in water to man, animals and aquatic life;
- (2) Details on analytical procedures for the quantitative estimation of such substances in water and
- (3) Suggestions on safeguards or other precautionary measures to nullify the toxic effects of a substance once it has gotten into a stream.

Failure to furnish such information as required by Section 14, Article 11, Chapter 22, Code of West Virginia may be punishable under Section 24, Article 11, Chapter 22, and/or Section 22, Article 11, Chapter 22, Code of West Virginia.

It shall be the responsibility of any person who causes or contributes in any way to the spill or accidental discharge of any pollutant or pollutants into State waters to immediately take any and all measures necessary to contain such spill or discharge. It shall further be the responsibility of such person to take any and all measures necessary to clean-up, remove and otherwise render such spill or discharge harmless to the waters of the State.

When the Director determines it necessary for the effective containment and abatement of spills and accidental discharges, the Director may require the person or persons responsible for such spill or discharge to monitor affected waters in a manner prescribed by the Director until the possibility of any adverse effect on the waters of the State no longer exists.

VOLUNTARY REPORTING BY LAW OFFICERS, U. S. COAST GUARD, LOCK MASTERS AND OTHERS:

In cases involving river and highway accidents where the responsible party may or may not be available to report the incident, law officers, U. S. Coast Guard, Lock Masters and other interested person(s) should make the report.

WHO TO CONTACT:

Notify the following number: 1-800-642-3074

INFORMATION NEEDED:

- | | |
|--|---------------------------------------|
| - Source of spill or discharge | - Personnel at the scene |
| - Location of incident | - Actions initiated |
| - Time of incident | - Shipper/Manufacturer identification |
| - Material spilled or discharged | - Railcar/Truck identification number |
| - Amount spilled or discharged | - Container type |
| - Toxicity of material spilled or discharged | |

NOTICE TO PERMITTEES

The 1999 regular session of the West Virginia legislature revised the Water Pollution Control Act, Chapter 22, Article 11, Section 10 of the Code of West Virginia relating to fees associated with permits. This section of the Code requires all holders of a State water pollution control permit or a national pollutant discharge elimination system permit to be assessed an annual permit fee, based upon rules promulgated by the Secretary of the Department of Environmental Protection. The Secretary has promulgated a final rule in accordance with the code revision to this effect and these rules were effective May 4, 2000. The rules establish an annual permit fee based upon the relative potential to degrade the waters of the State which, in most instances, relate to volume of discharge. However, for sewage facilities, the annual permit fee is based upon the number of customers served by the facility. You may contact the Secretary of State's Office, State Capitol Building, Charleston, WV 25305, to obtain a copy of the rules. The reference is Title 47, Legislative Rules, Department of Environmental Protection, Division of Water Resources, Series 26 Water Pollution Control Permit Fee Schedules.

Based upon the volume of discharge for which your facility is currently permitted, the number of customers served by your facility or for the category you fall within, pursuant to Section 7 of Title 47, Series 26, your annual permit fee is **\$250.00**. This fee is due no later than the anniversary date of permit issuance in each year of the term of the permit or in the case of coverage under a general permit, the fee is due no later than the anniversary date of your coverage under the general permit. **You will be invoiced by this agency at the appropriate time for the fee.** Failure to submit the annual fee within ninety(90) days of the due date will render your permit void upon the date you are mailed a certified written notice to that effect.

RIGHT OF APPEAL

Notice is hereby given of your right to appeal the terms and conditions of this permit which you are aggrieved by to the Environmental Quality Board by filing a NOTICE OF APPEAL on the form prescribed by such Board for this purpose, with the Board, in accordance with the provisions of Section 21, Article 11, Chapter 22 of the Code of West Virginia within thirty (30) days after the date of receipt of the above permit.

APPENDIX F

ENVIRONMENTAL CORRESPONDENCE



COMPLEX PROJECTS
REQUIRE RESOLVE
THRASHER'S GOT IT

January 10, 2024

Ms. Susan Pierce
Deputy State Historic Preservation Officer
The Cultural Center
1900 Kanawha Blvd., E.
Charleston, WV 25305-0300

**RE: Section 106 Review/Cultural Resources Consultation
Town of Ansted
Proposed Existing Wastewater Treatment Plant Upgrade
Fayette County, West Virginia
Thrasher Project # D10-11008**

Ms. Pierce:

The Thrasher Group, Inc. (Thrasher) is currently in the process of preparing a preliminary engineering report and a financial assistance application package through the West Virginia (WV) Infrastructure and Jobs Development Council, United States Congressionally Directed Spending, the WV Water Development Authority's Economic Enhancement Grant Fund, and the WV Department of Environmental Protections' Clean Water State Revolving Fund for the Town of Ansted (Town) in order to complete an extension and improvements to the sanitary sewer collection system. Supporting documentation required as part of the application package includes a Section 106 review from the WV State Historic Preservation Office (SHPO). Therefore, Thrasher is submitting to the WV SHPO a project review request for the Proposed Existing Wastewater Treatment Plant Upgrade (Project), located in the United States Geological Survey (USGS) Ansted 7.5-minute quadrangle of Fayette County, WV. Please see the USGS Site Location Map, enclosed.

The Town owns and operates a sanitary sewer collection system that serves approximately 600 customers. Currently, the wastewater treatment plant (WWTP) that serves the system is significantly undersized, and much of the existing equipment has exceeded its useful life. In order to improve the quality of service provided to customers in the system, the Town is proposing to rehabilitate and improve the system. Specifically, the Project is proposing to upgrade and expand the capacity of the existing WWTP and construct two basins. The upgrades will be installed in areas previously disturbed by the construction of the existing WWTP. No tree clearing will be required for the project. The total Project limit of disturbance will encompass approximately 2 acres. Please see the Aerial Site Location Map, enclosed.

Architectural Resources:

A review of the WV SHPO online map viewer identified the nearest National Register of Historic Places (NRHP) listed resource as the Halfway House (NRHP #78002792), which is approximately 0.3-miles northeast of the Project area. The Project will primarily consist of upgrades to the existing WWTP. Two new basins will be constructed in a similar location as the WWTP so they will not represent a significant viewshed impact or alteration. Please see the WV SHPO Map, enclosed.

Ms. Susan Pierce
January 10, 2024
Page 2 of 2

Archaeological Resources:

As the Project will involve construction in previously disturbed areas, archaeological resources are not expected to be encountered. The upgrades and expansions to the WWTP will be in areas previously disturbed by the existing WWTP equipment.

Thrasher respectfully requests concurrence from the WV SHPO with these determinations. If any further documentation is requested for this Project, or any questions or concerns should arise, please feel free to contact me at your earliest convenience at (304) 326-6122 or jgoudy@thethrashergroup.com.

Sincerely,

THE THRASHER GROUP, INC.



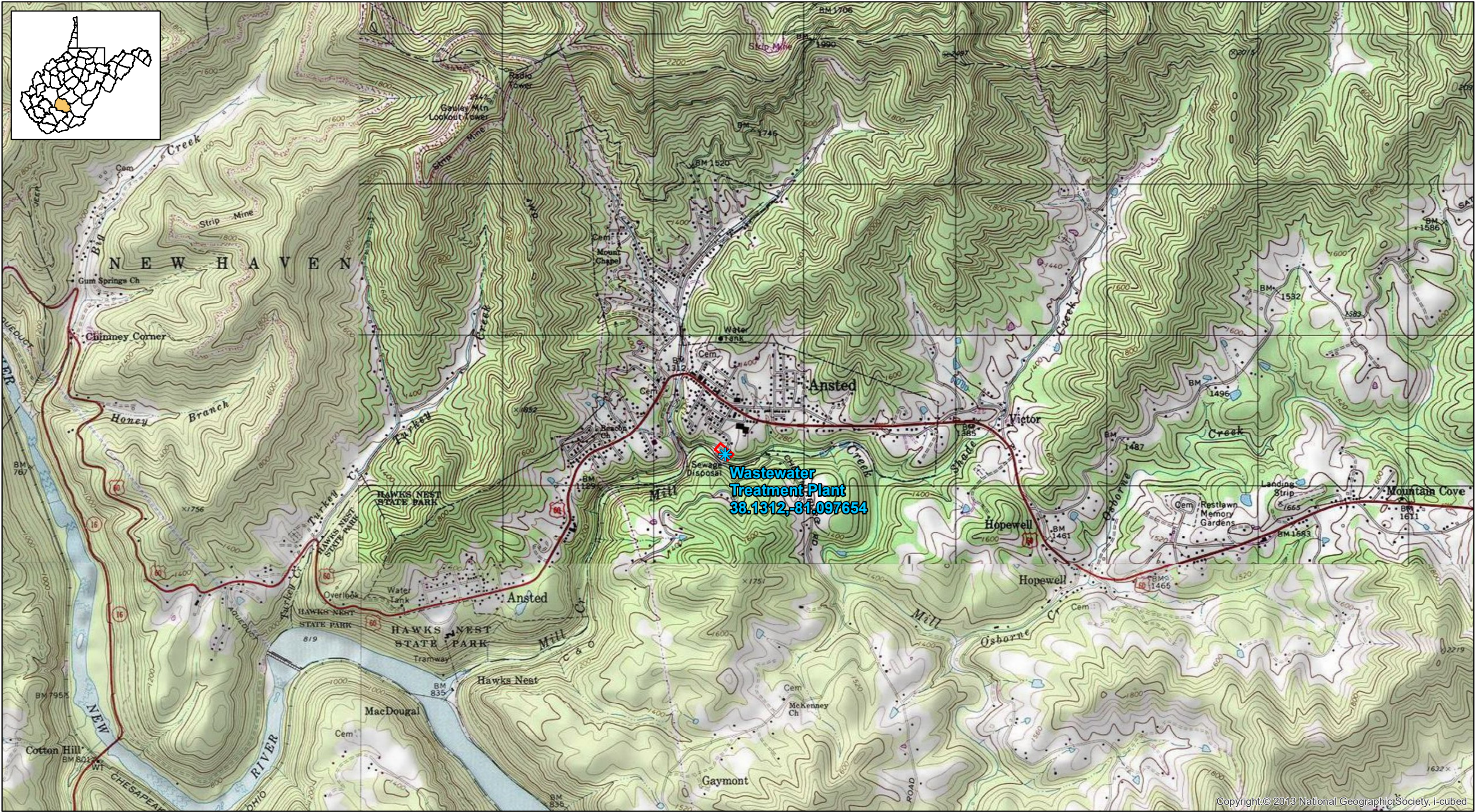
JEREMIAH GOUDY
Environmental Scientist I

Enclosures (3):

USGS Site Location Map
Aerial Site Location Map
WV SHPO Map

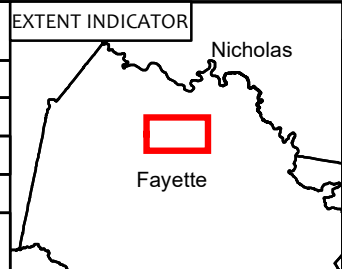
USGS Site Location Map

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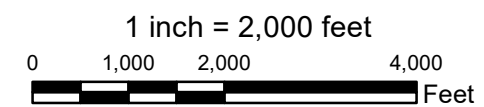
DETAILS:

Quad: Ansted	
Drawn By: cedwards	Date: 12/7/2023
Surveyed By: XX/XX	Date: MM/DD/YYYY
Project No. D10-11008	
Sheet Number: USGS	



Legend

-  Project Extents
-  Limit of Disturbance



USGS Site Location
Existing Wastewater Treatment
Plant Upgrade
Fayette County - West Virginia

Town of Ansted



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Aerial Site Location Map

Document Path: R:\aerial\11008 Town of Ansted WWTP Upgrade & Expansion\GIS\MXD\Aerial Site Location_Ansted.mxd

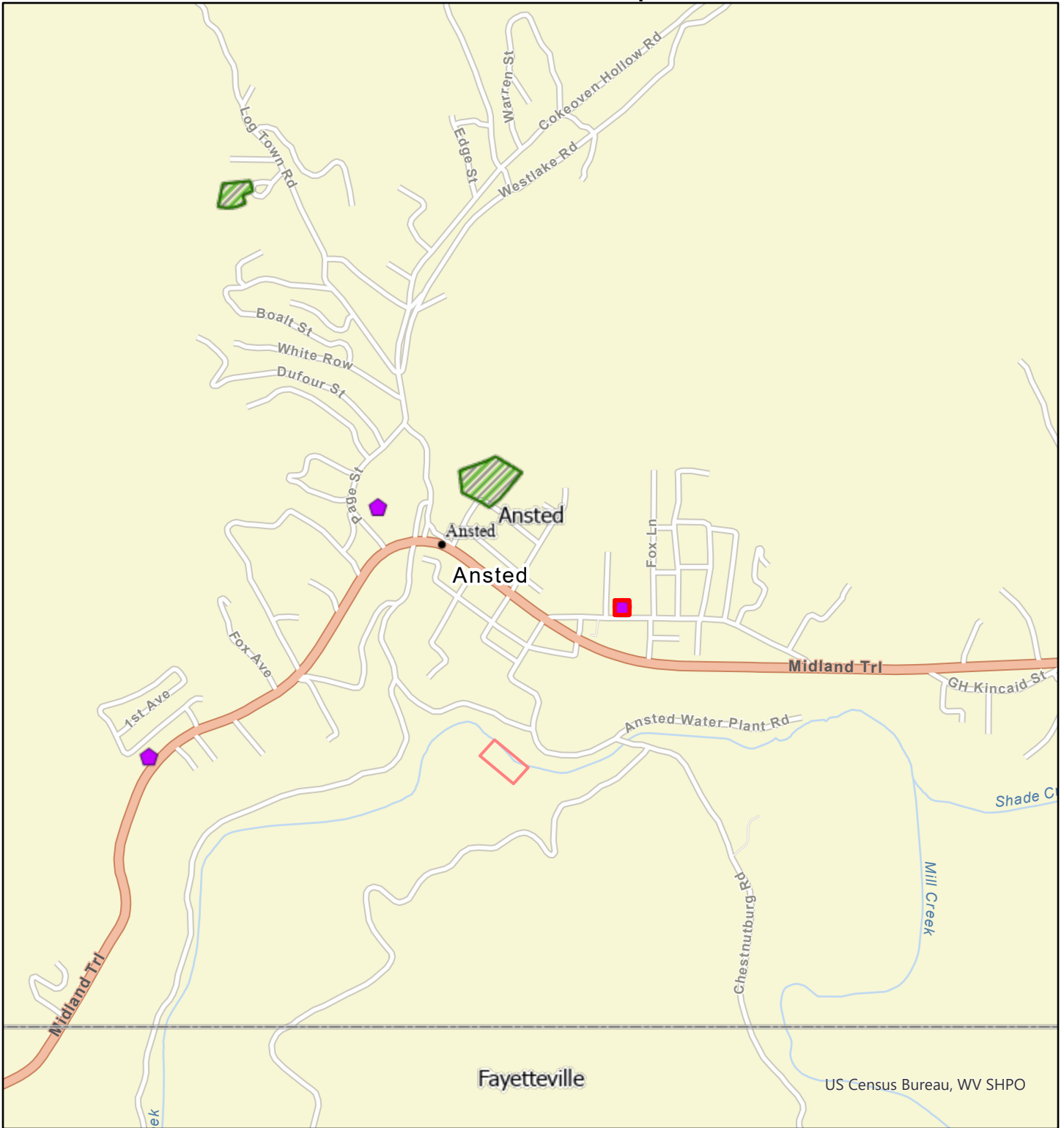


	DETAILS:	<div>EXTENT INDICATOR</div>	<div>Legend</div> <div> Project Extents</div> <div> Limit of Disturbance</div>	
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WV SHPO Map

WV SHPO Map



December 6, 2023

1:18,056

0 0.13 0.25 0.5 mi



National Register - Area



National Register - Point

Notes:

Condition



Demolished



Active

Condition



Demolished



Active



COMPLEX PROJECTS
REQUIRE RESOLVE
THRASHER'S GOT IT

January 10, 2024

Mr. Danny Bennett
Wildlife Diversity Unit
West Virginia Division of Natural Resources
738 Ward Road
Elkins, WV 26241

**RE: Project Review Request
Town of Ansted
Proposed Existing Wastewater Treatment Plant Upgrade
Fayette County, West Virginia
Thrasher Project # D10-11008**

Mr. Bennett:

The Thrasher Group, Inc. (Thrasher) is currently in the process of preparing a preliminary engineering report and a financial assistance application package through the West Virginia (WV) Infrastructure and Jobs Development Council, United States Congressionally Directed Spending, the WV Water Development Authority's Economic Enhancement Grant Fund, and the WV Department of Environmental Protections' Clean Water State Revolving Fund for the Town of Ansted (Town) in order to complete an extension and improvements to the sanitary sewer collection system. Supporting documentation required as part of the application package includes clearance from the WV Division of Natural Resources – Wildlife Resources Section (DNR-WRS). Therefore, Thrasher is submitting to the WV DNR-WRS a project review request for the Proposed Existing Wastewater Treatment Plant Upgrade (Project), located in the United States Geological Survey (USGS) Ansted 7.5-minute quadrangle of Fayette County, WV. Please see the USGS Site Location Map, enclosed.

The Town owns and operates a sanitary sewer collection system that serves approximately 600 customers. Currently, the wastewater treatment plant (WWTP) that serves the system is significantly undersized, and much of the existing equipment has exceeded its useful life. In order to improve the quality of service provided to customers in the system, the Town is proposing to rehabilitate and improve the system. Specifically, the Project is proposing to upgrade and expand the capacity of the existing WWTP and construct two basins. The upgrades will be installed in areas previously disturbed by the construction of the existing WWTP. No tree clearing will be required for the project. The total Project limit of disturbance will encompass approximately 2 acres. Please see the Aerial Site Location Map, enclosed.

The United States Fish and Wildlife Service (USFWS) Information for Planning and Consultation (IPaC) software was reviewed for potential rare, threatened, and endangered (RTE) species habitat within the Project area. The IPaC listed twelve RTE species that should be considered as part of an effects analysis for the Project: the Indiana bat (*Myotis sodalis*), the northern long-eared bat (NLEB, *Myotis septentrionalis*), the gray bat (*Myotis sodalis*), the tricolored bat (*Perimyotis subflavus*), the Virginia big-eared bat (*Corynorhinus townsendii virginianus*), fanshell (*Cyprogenia stegaria*), northern riffleshell (*Epioblasma rangiana*), pink mucket (*Lampsilis abrupta*), sheepsnose mussel (*Plethobasus cyphus*), snuffbox mussel (*Epioblasma triquetra*), spectaclecase (*Cumberlandia monodonta*), and the Virginia spiraea (*Spiraea virginiana*). The review indicated that the Project area is outside of any critical habitat. Please see the IPaC Report, enclosed.

Mr. Danny Bennett
January 10, 2024
Page 2 of 2

No timbering will be required for this Project. Habitat within the Project area primarily consists of previously disturbed areas. Best management practices and erosion and sediment controls will be utilized throughout the Project area to minimize downstream transportation of sediment. Publicly available Abandoned Mine Land and WV Department of Environmental Protection historical mining resources identified no portals within the Project area.

Thrasher is requesting an expedited review of the proposed Project as it relates to potential impacts to listed species. If any further documentation is required for this Project, or if any questions or concerns should arise, please feel free to contact me at (304) 326-6122 or jgoudy@thethrashergroup.com.

Sincerely,

THE THRASHER GROUP, INC.



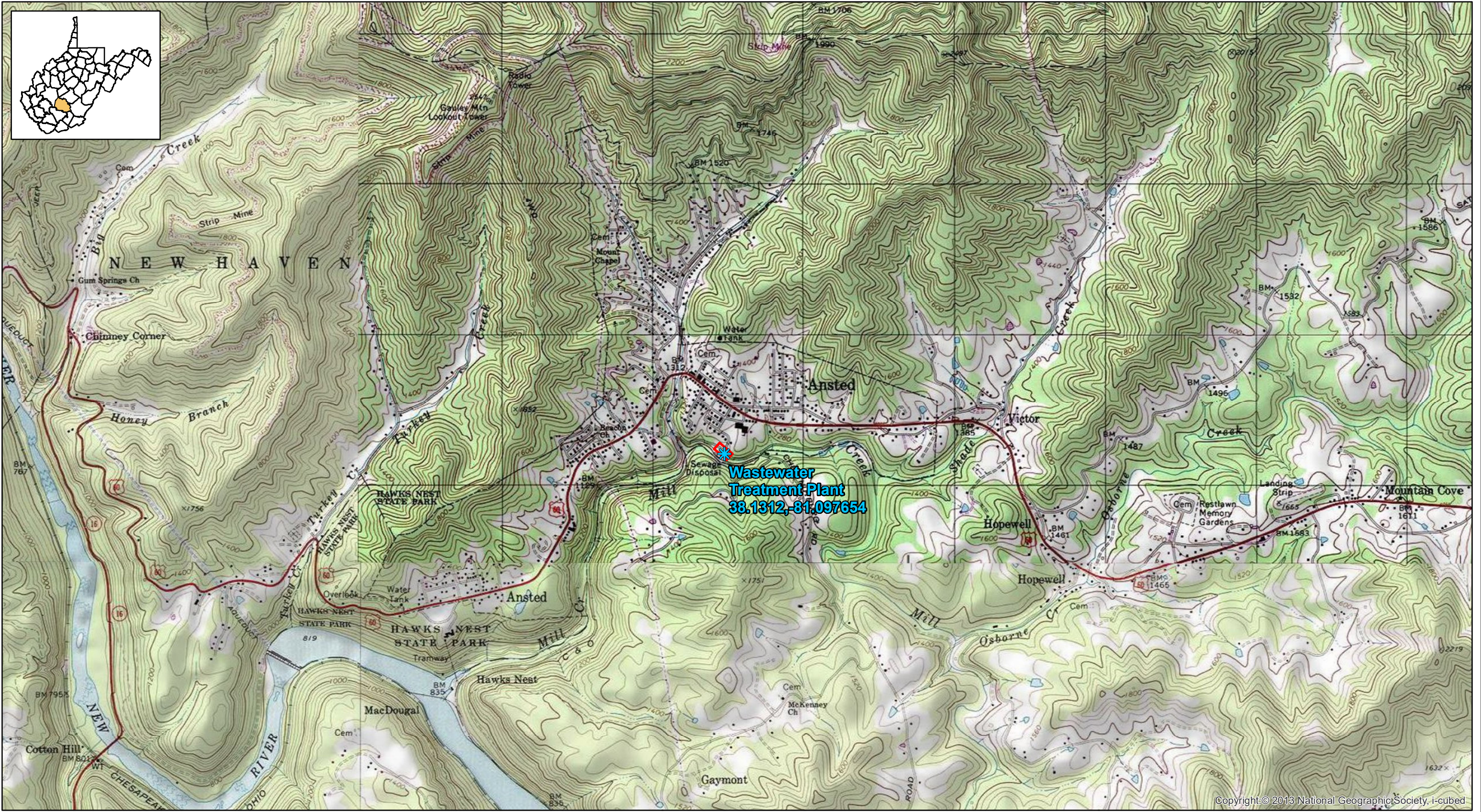
JEREMIAH GOUDY
Environmental Scientist I

Enclosures (3):

USGS Site Location Map
Aerial Site Location Map
IPaC Report

USGS Site Location Map

Document Path: R:\Info\Drawings\Town of Ansted\WWTU Upgrade & Expansion\GIS\MXD\USGS Site Location - Ansted.mxd

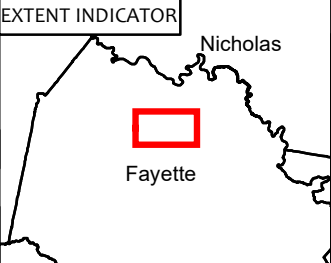


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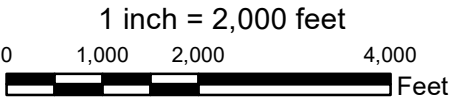
DETAILS:

Quad: Ansted	
Drawn By: cedwards	Date: 12/7/2023
Surveyed By: XX/XX	Date: MM/DD/YYYY
Project No. D10-11008	
Sheet Number: USGS	



Legend

-  Project Extents
-  Limit of Disturbance



USGS Site Location
Existing Wastewater Treatment
Plant Upgrade
Fayette County - West Virginia

Town of Ansted

THRASHER

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Aerial Site Location Map

Document Path: R:\aerial\11008 Town of Ansted WWTP Upgrade & Expansion\GIS\MXD\Aerial Site Location_Ansted.mxd





DETAILS:		<div>EXTENT INDICATOR</div> 	<div>Legend</div> <ul style="list-style-type: none"> Project Extents Limit of Disturbance		<div>1 inch = 100 feet</div>  <div>Feet</div>	<div>Aerial Site Location</div> <div>Existing Wastewater Treatment Plant Upgrade</div> <div>Fayette County - West Virginia</div>
Quad: Ansted						
Drawn By: cedwards	Date: 12/7/2023					
Surveyed By: XX/XX	Date: MM/DD/YYYY					
Project No. D10-11008						
Sheet Number: 1 of 1			Town of Ansted			

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IPaC Report



United States Department of the Interior

FISH AND WILDLIFE SERVICE
West Virginia Ecological Services Field Office
6263 Appalachian Highway
Davis, WV 26260-8061
Phone: (304) 866-3858 Fax: (304) 866-3852



In Reply Refer To:

December 07, 2023

Project Code: 2024-0024138

Project Name: Town of Ansted - Existing Wastewater Treatment Plant Upgrade and Expansion

Subject: List of threatened and endangered species that may occur in your proposed project location or may be affected by your proposed project

To Whom It May Concern:

The enclosed species list identifies threatened, endangered, proposed and candidate species, as well as proposed and final designated critical habitat, that may occur within the boundary of your proposed project and/or may be affected by your proposed project. The species list fulfills the requirements of the U.S. Fish and Wildlife Service (Service) under section 7(c) of the Endangered Species Act (Act) of 1973, as amended (16 U.S.C. 1531 *et seq.*).

New information based on updated surveys, changes in the abundance and distribution of species, changed habitat conditions, or other factors could change this list. Please feel free to contact us if you need more current information or assistance regarding the potential impacts to federally proposed, listed, and candidate species and federally designated and proposed critical habitat. Please note that under 50 CFR 402.12(e) of the regulations implementing section 7 of the Act, the accuracy of this species list should be verified after 90 days. This verification can be completed formally or informally as desired. The Service recommends that verification be completed by visiting the IPaC website at regular intervals during project planning and implementation for updates to species lists and information. An updated list may be requested through the IPaC system by completing the same process used to receive the enclosed list.

The purpose of the Act is to provide a means whereby threatened and endangered species and the ecosystems upon which they depend may be conserved. Under sections 7(a)(1) and 7(a)(2) of the Act and its implementing regulations (50 CFR 402 *et seq.*), Federal agencies are required to utilize their authorities to carry out programs for the conservation of threatened and endangered species and to determine whether projects may affect threatened and endangered species and/or designated critical habitat.

A Biological Assessment is required for construction projects (or other undertakings having similar physical impacts) that are major Federal actions significantly affecting the quality of the human environment as defined in the National Environmental Policy Act (42 U.S.C. 4332(2)(c)). For projects other than major construction activities, the Service suggests that a biological

evaluation similar to a Biological Assessment be prepared to determine whether the project may affect listed or proposed species and/or designated or proposed critical habitat. Recommended contents of a Biological Assessment are described at 50 CFR 402.12.

If a Federal agency determines, based on the Biological Assessment or biological evaluation, that listed species and/or designated critical habitat may be affected by the proposed project, the agency is required to consult with the Service pursuant to 50 CFR 402. In addition, the Service recommends that candidate species, proposed species and proposed critical habitat be addressed within the consultation. More information on the regulations and procedures for section 7 consultation, including the role of permit or license applicants, can be found in the "Endangered Species Consultation Handbook" at:

<https://www.fws.gov/sites/default/files/documents/endangered-species-consultation-handbook.pdf>

Migratory Birds: In addition to responsibilities to protect threatened and endangered species under the Endangered Species Act (ESA), there are additional responsibilities under the Migratory Bird Treaty Act (MBTA) and the Bald and Golden Eagle Protection Act (BGEPA) to protect native birds from project-related impacts. Any activity, intentional or unintentional, resulting in take of migratory birds, including eagles, is prohibited unless otherwise permitted by the U.S. Fish and Wildlife Service (50 C.F.R. Sec. 10.12 and 16 U.S.C. Sec. 668(a)). For more information regarding these Acts, see <https://www.fws.gov/program/migratory-bird-permit/what-we-do>.

The MBTA has no provision for allowing take of migratory birds that may be unintentionally killed or injured by otherwise lawful activities. It is the responsibility of the project proponent to comply with these Acts by identifying potential impacts to migratory birds and eagles within applicable NEPA documents (when there is a federal nexus) or a Bird/Eagle Conservation Plan (when there is no federal nexus). Proponents should implement conservation measures to avoid or minimize the production of project-related stressors or minimize the exposure of birds and their resources to the project-related stressors. For more information on avian stressors and recommended conservation measures, see <https://www.fws.gov/library/collections/threats-birds>.

In addition to MBTA and BGEPA, Executive Order 13186: *Responsibilities of Federal Agencies to Protect Migratory Birds*, obligates all Federal agencies that engage in or authorize activities that might affect migratory birds, to minimize those effects and encourage conservation measures that will improve bird populations. Executive Order 13186 provides for the protection of both migratory birds and migratory bird habitat. For information regarding the implementation of Executive Order 13186, please visit <https://www.fws.gov/partner/council-conservation-migratory-birds>.

We appreciate your concern for threatened and endangered species. The Service encourages Federal agencies to include conservation of threatened and endangered species into their project planning to further the purposes of the Act. Please include the Consultation Code in the header of this letter with any request for consultation or correspondence about your project that you submit to our office.

Attachment(s):

- Official Species List
- USFWS National Wildlife Refuges and Fish Hatcheries
- Bald & Golden Eagles
- Migratory Birds
- Wetlands

OFFICIAL SPECIES LIST

This list is provided pursuant to Section 7 of the Endangered Species Act, and fulfills the requirement for Federal agencies to "request of the Secretary of the Interior information whether any species which is listed or proposed to be listed may be present in the area of a proposed action".

This species list is provided by:

West Virginia Ecological Services Field Office

6263 Appalachian Highway

Davis, WV 26260-8061

(304) 866-3858

PROJECT SUMMARY

Project Code: 2024-0024138

Project Name: Town of Ansted - Existing Wastewater Treatment Plant Upgrade and Expansion

Project Type: Wastewater Facility - Maintenance / Modification

Project Description: The Town owns and operates a sanitary sewer collection system that serves approximately 600 customers. Currently, the wastewater treatment plant (WWTP) that serves the system is significantly undersized hydraulically, and much of the existing equipment has exceeded its useful life. In order to improve the quality of service provided to customers in the system, the Town is proposing to rehabilitate and improve the system. Specifically, the Project is proposing to upgrade and expand the capacity of the existing WWTP and construct two basins. The upgrades will be installed in areas previously disturbed by the construction of the existing WWTP. No tree clearing will be required for the project. The total Project limit of disturbance will encompass approximately 2 acres.

Project Location:

The approximate location of the project can be viewed in Google Maps: <https://www.google.com/maps/@38.13159975,-81.0972594109111,14z>



Counties: Fayette County, West Virginia

ENDANGERED SPECIES ACT SPECIES

There is a total of 13 threatened, endangered, or candidate species on this species list.

Species on this list should be considered in an effects analysis for your project and could include species that exist in another geographic area. For example, certain fish may appear on the species list because a project could affect downstream species. Note that 6 of these species should be considered only under certain conditions.

IPaC does not display listed species or critical habitats under the sole jurisdiction of NOAA Fisheries¹, as USFWS does not have the authority to speak on behalf of NOAA and the Department of Commerce.

See the "Critical habitats" section below for those critical habitats that lie wholly or partially within your project area under this office's jurisdiction. Please contact the designated FWS office if you have questions.

-
1. [NOAA Fisheries](#), also known as the National Marine Fisheries Service (NMFS), is an office of the National Oceanic and Atmospheric Administration within the Department of Commerce.

MAMMALS

NAME	STATUS
Gray Bat <i>Myotis grisescens</i> No critical habitat has been designated for this species. Species profile: https://ecos.fws.gov/ecp/species/6329	Endangered
Indiana Bat <i>Myotis sodalis</i> There is final critical habitat for this species. Your location does not overlap the critical habitat. This species only needs to be considered under the following conditions: <ul style="list-style-type: none"> ▪ All activities in this location should consider potential effects to this species. This project is not within a known-use area, but potentially occupied habitat may exist. Please contact the WVFO for further coordination. Species profile: https://ecos.fws.gov/ecp/species/5949	Endangered
Northern Long-eared Bat <i>Myotis septentrionalis</i> No critical habitat has been designated for this species. Species profile: https://ecos.fws.gov/ecp/species/9045	Endangered
Tricolored Bat <i>Perimyotis subflavus</i> No critical habitat has been designated for this species. Species profile: https://ecos.fws.gov/ecp/species/10515	Proposed Endangered
Virginia Big-eared Bat <i>Corynorhinus (=Plecotus) townsendii virginianus</i> There is final critical habitat for this species. Your location does not overlap the critical habitat. Species profile: https://ecos.fws.gov/ecp/species/8369	Endangered

CLAMS

NAME	STATUS
<p>Fanshell <i>Cyprogenia stegaria</i></p> <p>No critical habitat has been designated for this species.</p> <p>This species only needs to be considered under the following conditions:</p> <ul style="list-style-type: none"> This project occurs within a watershed known to support this species. Review the project design guidelines for more information about next steps and contacting the WVFO. <p>Species profile: https://ecos.fws.gov/ecp/species/4822</p> <p>General project design guidelines: https://ipac.ecosphere.fws.gov/project/G6QY74ULYVBIZMWJXZMM64P4O4/documents/generated/6470.pdf</p>	Endangered
<p>Northern Riffleshell <i>Epioblasma rangiana</i></p> <p>No critical habitat has been designated for this species.</p> <p>Species profile: https://ecos.fws.gov/ecp/species/527</p> <p>General project design guidelines: https://ipac.ecosphere.fws.gov/project/G6QY74ULYVBIZMWJXZMM64P4O4/documents/generated/6462.pdf</p>	Endangered
<p>Pink Mucket (pearlymussel) <i>Lampsilis abrupta</i></p> <p>No critical habitat has been designated for this species.</p> <p>This species only needs to be considered under the following conditions:</p> <ul style="list-style-type: none"> This project occurs within a watershed known to support this species. Review the project design guidelines for more information about next steps and contacting the WVFO. <p>Species profile: https://ecos.fws.gov/ecp/species/7829</p> <p>General project design guidelines: https://ipac.ecosphere.fws.gov/project/G6QY74ULYVBIZMWJXZMM64P4O4/documents/generated/6463.pdf</p>	Endangered
<p>Sheepnose Mussel <i>Plethobasus cyphus</i></p> <p>No critical habitat has been designated for this species.</p> <p>This species only needs to be considered under the following conditions:</p> <ul style="list-style-type: none"> This project occurs within a watershed known to support this species. Review the project design guidelines for more information about next steps and contacting the WVFO. <p>Species profile: https://ecos.fws.gov/ecp/species/6903</p> <p>General project design guidelines: https://ipac.ecosphere.fws.gov/project/G6QY74ULYVBIZMWJXZMM64P4O4/documents/generated/6465.pdf</p>	Endangered
<p>Snuffbox Mussel <i>Epioblasma triquetra</i></p> <p>No critical habitat has been designated for this species.</p> <p>This species only needs to be considered under the following conditions:</p> <ul style="list-style-type: none"> This project occurs within a watershed known to support this species. Review the project design guidelines for more information about next steps and contacting the WVFO. <p>Species profile: https://ecos.fws.gov/ecp/species/4135</p> <p>General project design guidelines: https://ipac.ecosphere.fws.gov/project/G6QY74ULYVBIZMWJXZMM64P4O4/documents/generated/6466.pdf</p>	Endangered
<p>Spectaclecase (mussel) <i>Cumberlandia monodonta</i></p> <p>No critical habitat has been designated for this species.</p> <p>This species only needs to be considered under the following conditions:</p>	Endangered

NAME	STATUS
<ul style="list-style-type: none"> This project occurs within a watershed known to support this species. Review the project design guidelines for more information about next steps and contacting the WVFO. Species profile: https://ecos.fws.gov/ecp/species/7867 General project design guidelines: https://ipac.ecosphere.fws.gov/project/G6QY74ULYVBIZMWJXZMM64P4O4/documents/generated/6467.pdf	

INSECTS

NAME	STATUS
Monarch Butterfly <i>Danaus plexippus</i> No critical habitat has been designated for this species. Species profile: https://ecos.fws.gov/ecp/species/9743	Candidate

FLOWERING PLANTS

NAME	STATUS
Virginia Spiraea <i>Spiraea virginiana</i> No critical habitat has been designated for this species. Species profile: https://ecos.fws.gov/ecp/species/1728	Threatened

CRITICAL HABITATS

THERE ARE NO CRITICAL HABITATS WITHIN YOUR PROJECT AREA UNDER THIS OFFICE'S JURISDICTION.

YOU ARE STILL REQUIRED TO DETERMINE IF YOUR PROJECT(S) MAY HAVE EFFECTS ON ALL ABOVE LISTED SPECIES.

USFWS NATIONAL WILDLIFE REFUGE LANDS AND FISH HATCHERIES

Any activity proposed on lands managed by the [National Wildlife Refuge](#) system must undergo a 'Compatibility Determination' conducted by the Refuge. Please contact the individual Refuges to discuss any questions or concerns.

THERE ARE NO REFUGE LANDS OR FISH HATCHERIES WITHIN YOUR PROJECT AREA.

BALD & GOLDEN EAGLES

Bald and golden eagles are protected under the Bald and Golden Eagle Protection Act¹ and the Migratory Bird Treaty Act².

Any person or organization who plans or conducts activities that may result in impacts to bald or golden eagles, or their habitats³, should follow appropriate regulations and consider implementing appropriate conservation measures, as described below.

-
1. The [Bald and Golden Eagle Protection Act](#) of 1940.
 2. The [Migratory Birds Treaty Act](#) of 1918.
 3. 50 C.F.R. Sec. 10.12 and 16 U.S.C. Sec. 668(a)

THERE ARE NO BALD AND GOLDEN EAGLES WITHIN THE VICINITY OF YOUR PROJECT AREA.

MIGRATORY BIRDS

Certain birds are protected under the Migratory Bird Treaty Act¹ and the Bald and Golden Eagle Protection Act².

Any person or organization who plans or conducts activities that may result in impacts to migratory birds, eagles, and their habitats³ should follow appropriate regulations and consider implementing appropriate conservation measures, as described below.

-
1. The [Migratory Birds Treaty Act](#) of 1918.
 2. The [Bald and Golden Eagle Protection Act](#) of 1940.
 3. 50 C.F.R. Sec. 10.12 and 16 U.S.C. Sec. 668(a)

For guidance on when to schedule activities or implement avoidance and minimization measures to reduce impacts to migratory birds on your list, click on the PROBABILITY OF PRESENCE SUMMARY at the top of your list to see when these birds are most likely to be present and breeding in your project area.

NAME	BREEDING SEASON
Canada Warbler <i>Cardellina canadensis</i> This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska. https://ecos.fws.gov/ecp/species/9643	Breeds May 20 to Aug 10
Cerulean Warbler <i>Dendroica cerulea</i> This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska. https://ecos.fws.gov/ecp/species/2974	Breeds Apr 27 to Jul 20
Chimney Swift <i>Chaetura pelagica</i> This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska. https://ecos.fws.gov/ecp/species/9406	Breeds Mar 15 to Aug 25
Golden-winged Warbler <i>Vermivora chrysoptera</i> This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska. https://ecos.fws.gov/ecp/species/8745	Breeds May 1 to Jul 20

NAME	BREEDING SEASON
Kentucky Warbler <i>Oporornis formosus</i> This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska. https://ecos.fws.gov/ecp/species/9443	Breeds Apr 20 to Aug 20
Red-headed Woodpecker <i>Melanerpes erythrocephalus</i> This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska. https://ecos.fws.gov/ecp/species/9398	Breeds May 10 to Sep 10
Wood Thrush <i>Hylocichla mustelina</i> This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska. https://ecos.fws.gov/ecp/species/9431	Breeds May 10 to Aug 31

PROBABILITY OF PRESENCE SUMMARY

The graphs below provide our best understanding of when birds of concern are most likely to be present in your project area. This information can be used to tailor and schedule your project activities to avoid or minimize impacts to birds. Please make sure you read the supplemental information and specifically the FAQ "Proper Interpretation and Use of Your Migratory Bird Report" before using or attempting to interpret this report.

Probability of Presence (■)

Green bars; the bird's relative probability of presence in the 10km grid cell(s) your project overlaps during that week of the year.

Breeding Season (■)

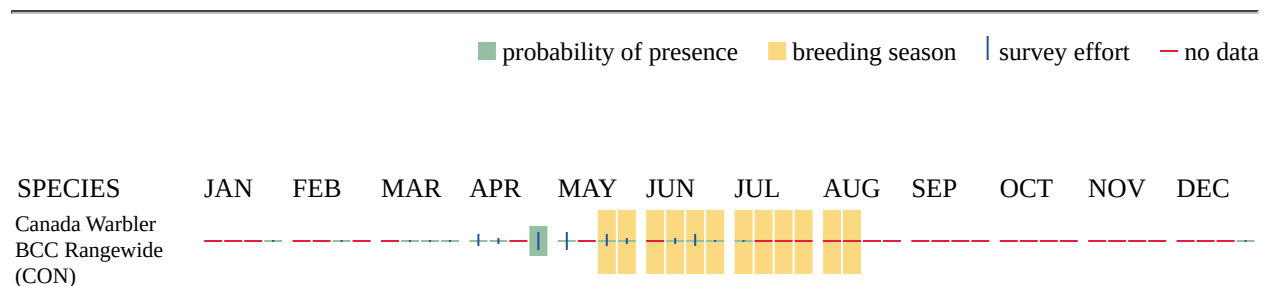
Yellow bars; liberal estimate of the timeframe inside which the bird breeds across its entire range.

Survey Effort (|)

Vertical black lines; the number of surveys performed for that species in the 10km grid cell(s) your project area overlaps.

No Data (—)

A week is marked as having no data if there were no survey events for that week.





Additional information can be found using the following links:

- Eagle Management <https://www.fws.gov/program/eagle-management>
- Measures for avoiding and minimizing impacts to birds <https://www.fws.gov/library/collections/avoiding-and-minimizing-incidental-take-migratory-birds>
- Nationwide conservation measures for birds <https://www.fws.gov/sites/default/files/documents/nationwide-standard-conservation-measures.pdf>
- Supplemental Information for Migratory Birds and Eagles in IPaC <https://www.fws.gov/media/supplemental-information-migratory-birds-and-bald-and-golden-eagles-may-occur-project-action>

WETLANDS

Impacts to [NWI wetlands](#) and other aquatic habitats may be subject to regulation under Section 404 of the Clean Water Act, or other State/Federal statutes.

For more information please contact the Regulatory Program of the local [U.S. Army Corps of Engineers District](#).

Please note that the NWI data being shown may be out of date. We are currently working to update our NWI data set. We recommend you verify these results with a site visit to determine the actual extent of wetlands on site.

RIVERINE

- R3RBH

IPAC USER CONTACT INFORMATION

Agency: The Thrasher Group
Name: Courtney Edwards
Address: 1000 Corporate Landing
City: Charleston
State: WV
Zip: 25311
Email: cedwards@thethrashergroup.com
Phone: 8006538000

LEAD AGENCY CONTACT INFORMATION

Lead Agency: Army Corps of Engineers

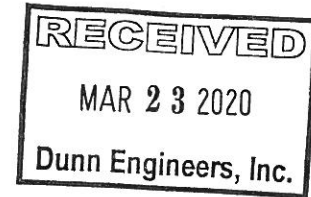


DEPARTMENT OF THE ARMY
CORPS OF ENGINEERS, HUNTINGTON DISTRICT
502 8TH STREET
HUNTINGTON, WV 25701

March 17, 2020

Regulatory Division
South/Transportation Branch
LRH-2020-254-NEW

Mr. Ethan Gartin
Dunn Engineers, Inc.
400 South Ruffner Road
Charleston, West Virginia 25314



Dear Mr. Gartin:

I refer to preliminary information received in this office on March 16, 2020, regarding the proposed Town of Ansted Sewer System Improvement Project near Ansted, in Fayette County, West Virginia at approximately latitude 38.133635°N, longitude -81.086153°W. This project has been assigned file number LRH-2020-254-NEW. Please refer to this number in any future correspondence regarding this matter.

The United States Army Corps of Engineers' (Corps) authority to regulate waters of the United States is based on the definitions and limits of jurisdiction contained in 33 CFR 328 and 33 CFR 329. Section 404 of the Clean Water Act (Section 404) requires a Department of the Army (DA) permit be obtained prior to discharging dredged and/or fill material into waters of the United States, including wetlands. Section 10 of the Rivers and Harbors Act of 1899 (Section 10) requires a DA permit be obtained for any work in, on, over or under a navigable water.

Based on your description of the proposed work, and other information available, it appears the project may include the discharge of dredged and/or fill material into waters of the United States. Therefore, under Section 404, a DA authorization may be required. It is the responsibility of the applicant, or the applicant's consultant, to determine the presence and limits of potential waters of the United States, including wetlands, within the project area.

To further evaluate the project additional information is required. Typically, the attached DA permit application form (ENG form 6082), completed in accordance with the included instructions, provides the information required to evaluate the proposed project.

If you have any questions regarding DA permit requirements, please contact the South Regulatory Branch at (304) 399-5710.

Sincerely,

Sarah M. Workman
Regulatory Project Manager
South/Transportation Branch

Enclosure(s)

U.S. Army Corps of Engineers (USACE)
NATIONWIDE PERMIT PRE-CONSTRUCTION NOTIFICATION (PCN)
33 CFR 330. The proponent agency is CECW-CO-R.

Form Approved -
OMB No. 0710-0003
Expires: 02-28-2022

DATA REQUIRED BY THE PRIVACY ACT OF 1974

Authority Rivers and Harbors Act, Section 10, 33 USC 403; Clean Water Act, Section 404, 33 USC 1344; Regulatory Program of the Corps of Engineers (Corps); Final Rule 33 CFR 320-332.

Principal Purpose Information provided on this form will be used in evaluating the nationwide permit pre-construction notification.

Routine Uses This information may be shared with the Department of Justice and other federal, state, and local government agencies, and the public and may be made available as part of the agency coordination process.

Disclosure Submission of requested information is voluntary, however, if information is not provided the permit application cannot be evaluated nor can a permit be issued.

The public reporting burden for this collection of information, 0710-0003, is estimated to average 11 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding the burden estimate or burden reduction suggestions to the Department of Defense, Washington Headquarters Services, at whs.mc-alex.esd.mbx.dd-dod-information-collections@mail.mil. Respondents should be aware that notwithstanding any other provision of law, no person shall be subject to any penalty for failing to comply with a collection of information if it does not display a currently valid OMB control number.

PLEASE DO NOT RETURN YOUR RESPONSE TO THE ABOVE EMAIL.

One set of original drawings or good reproducible copies which show the location and character of the proposed activity must be attached to this application (see *sample drawings and/or instructions*) and be submitted to the district engineer having jurisdiction over the location of the proposed activity. An application that is not completed in full will be returned.

(ITEMS 1 THRU 4 TO BE FILLED BY THE CORPS)

1. APPLICATION NO.	2. FIELD OFFICE CODE	3. DATE RECEIVED	4. DATE APPLICATION COMPLETE
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(ITEMS BELOW TO BE FILLED BY APPLICANT)

5. APPLICANT'S NAME First - Middle - Last - Company - Company Title - E-mail Address -	8. AUTHORIZED AGENT'S NAME AND TITLE (<i>agent is not required</i>) First - Middle - Last - Company - E-mail Address -
6. APPLICANT'S ADDRESS Address- City - State - Zip - Country -	9. AGENT'S ADDRESS Address- City - State - Zip - Country -
7. APPLICANT'S PHONE NOs. with AREA CODE a. Residence b. Business c. Fax d. Mobile	10. AGENT'S PHONE NOs. with AREA CODE a. Residence b. Business c. Fax d. Mobile

STATEMENT OF AUTHORIZATION

11. I hereby authorize, _____ to act in my behalf as my agent in the processing of this nationwide permit pre-construction notification and to furnish, upon request, supplemental information in support of this nationwide permit pre-construction notification.

SIGNATURE OF APPLICANT DATE

NAME, LOCATION, AND DESCRIPTION OF PROJECT OR ACTIVITY

12. PROJECT NAME or TITLE (*see instructions*)

NAME, LOCATION, AND DESCRIPTION OF PROJECT OR ACTIVITY

13. NAME OF WATERBODY, IF KNOWN *(if applicable)*

14. PROPOSED ACTIVITY STREET ADDRESS *(if applicable)*

15. LOCATION OF PROPOSED ACTIVITY *(see instructions)*

Latitude °N Longitude °W

City:

State: Zip:

16. OTHER LOCATION DESCRIPTIONS, IF KNOWN *(see instructions)*

State Tax Parcel ID

Municipality

Section

Township

Range

17. DIRECTIONS TO THE SITE

18. IDENTIFY THE SPECIFIC NATIONWIDE PERMIT(S) YOU PROPOSE TO USE

19. DESCRIPTION OF PROPOSED NATIONWIDE PERMIT ACTIVITY *(see instructions)*

20. DESCRIPTION OF PROPOSED MITIGATION MEASURES *(see instructions)*

21. PURPOSE OF NATIONWIDE PERMIT ACTIVITY *(Describe the reason or purpose of the project, see instructions)*

22. QUANTITY OF WETLANDS, STREAMS, OR OTHER TYPES OF WATERS DIRECTLY AFFECTED BY PROPOSED NATIONWIDE PERMIT ACTIVITY *(see instructions)*

Acres

Linear Feet

Cubic Yards Dredged or Discharged

Each PCN must include a delineation of wetlands, other special aquatic sites, and other waters, such as lakes and ponds, and perennial, intermittent, and ephemeral streams, on the project site.

23. List any other NWP(s), regional general permit(s), or individual permit(s) used or intended to be used to authorize any part of the proposed project or any related activity. *(see instructions)*

24. If the proposed activity will result in the loss of greater than 1/10-acre of wetlands and requires pre-construction notification, explain how the compensatory mitigation requirement in paragraph (c) of general condition 23 will be satisfied, or explain why the adverse environmental effects are no more than minimal and why compensatory mitigation should not be required for the proposed activity.

25. Is any portion of the nationwide permit activity already complete? ☐ Yes ☐ No If Yes, describe the completed work:

26. List the name(s) of any species listed as endangered or threatened under the Endangered Species Act that might be affected by the proposed NWP activity or utilize the designated critical habitat that might be affected by the proposed NWP activity. (*see instructions*)

27. List any historic properties that have the potential to be affected by the proposed NWP activity or include a vicinity map indicating the location of the historic property or properties. (*see instructions*)

28. For a proposed NWP activity that will occur in a component of the National Wild and Scenic River System, or in a river officially designated by Congress as a "study river" for possible inclusion in the system while the river is in an official study status, identify the Wild and Scenic River or the "study river":

29. If the proposed NWP activity also requires permission from the Corps pursuant to 33 U.S.C. 408 because it will alter or temporarily or permanently occupy or use a U.S. Army Corps of Engineers federally authorized civil works project, have you submitted a written request for section 408 permission from the Corps district having jurisdiction over that project? ☐ Yes ☐ No

If "yes", please provide the date your request was submitted to the Corps district:

30. If the terms of the NWP(s) you want to use require additional information to be included in the PCN, please include that information in this space or provide it on an additional sheet of paper marked Block 30. (*see instructions*)

31. Pre-construction notification is hereby made for one or more nationwide permit(s) to authorize the work described in this notification. I certify that the information in this pre-construction notification is complete and accurate. I further certify that I possess the authority to undertake the work described herein or am acting as the duly authorized agent of the applicant.

SIGNATURE OF APPLICANT

DATE

SIGNATURE OF AGENT

DATE

The pre-construction notification must be signed by the person who desires to undertake the proposed activity (applicant) and, if the statement in Block 11 has been filled out and signed, the authorized agent.

18 U.S.C. Section 1001 provides that: Whoever, in any manner within the jurisdiction of any department or agency of the United States knowingly and willfully falsifies, conceals, or covers up any trick, scheme, or disguises a material fact or makes any false, fictitious or fraudulent statements or representations or makes or uses any false writing or document knowing same to contain any false, fictitious or fraudulent statements or entry, shall be fined not more than \$10,000 or imprisoned not more than five years or both.

Instructions for Preparing a
Department of the Army
Nationwide Permit (NWP) Pre-Construction Notification (PCN)

Blocks 1 through 4. To be completed by the Corps of Engineers.

Block 5. Applicant's Name. Enter the name and the e-mail address of the responsible party or parties. If the responsible party is an agency, company, corporation, or other organization, indicate the name of the organization and responsible officer and title. If more than one party is associated with the preconstruction notification, please attach a sheet of paper with the necessary information marked Block 5.

Block 6. Address of Applicant. Please provide the full address of the party or parties responsible for the PCN. If more space is needed, attach an extra sheet of paper marked Block 6.

Block 7. Applicant's Telephone Number(s). Please provide the telephone number where you can usually be reached during normal business hours.

Blocks 8 through 11. To be completed, if you choose to have an agent.

Block 8. Authorized Agent's Name and Title. Indicate name of individual or agency, designated by you, to represent you in this process. An agent can be an attorney, builder, contractor, engineer, consultant, or any other person or organization. Note: An agent is not required.

Blocks 9 and 10. Agent's Address and Telephone Number. Please provide the complete mailing address of the agent, along with the telephone number where he / she can be reached during normal business hours.

Block 11. Statement of Authorization. To be completed by the applicant, if an agent is to be employed.

Block 12. Proposed Nationwide Permit Activity Name or Title. Please provide a name identifying the proposed NWP activity, e.g., Windward Marina, Rolling Hills Subdivision, or Smith Commercial Center.

Block 13. Name of Waterbody. Please provide the name (if it has a name) of any stream, lake, marsh, or other waterway to be directly impacted by the NWP activity. If it is a minor (no name) stream, identify the waterbody the minor stream enters.

Block 14. Proposed Activity Street Address. If the proposed NWP activity is located at a site having a street address (not a box number), please enter it in Block 14.

Block 15. Location of Proposed Activity. Enter the latitude and longitude of where the proposed NWP activity is located. Indicate whether the project location provided is the center of the project or whether the project location is provided as the latitude and longitude for each of the "corners" of the project area requiring evaluation. If there are multiple sites, please list the latitude and longitude of each site (center or corners) on a separate sheet of paper and mark as Block 15.

Block 16. Other Location Descriptions. If available, provide the Tax Parcel Identification number of the site, Section, Township, and Range of the site (if known), and / or local Municipality where the site is located.

Block 17. Directions to the Site. Provide directions to the site from a known location or landmark. Include highway and street numbers as well as names. Also provide distances from known locations and any other information that would assist in locating the site. You may also provide a description of the location of the proposed NWP activity, such as lot numbers, tract numbers, or you may choose to locate the proposed NWP activity site from a known point (such as the right descending bank of Smith Creek, one mile downstream from the Highway 14 bridge). If a large river or stream, include the river mile of the proposed NWP activity site if known. If there are multiple locations, please indicate directions to each location on a separate sheet of paper and mark as Block 17.

Block 18. Identify the Specific Nationwide Permit(s) You Propose to Use. List the number(s) of the Nationwide Permit(s) you want to use to authorize the proposed activity (e.g., NWP 29).

Block 19. Description of the Proposed Nationwide Permit Activity. Describe the proposed NWP activity, including the direct and indirect adverse environmental effects the activity would cause. The description of the proposed activity should be sufficiently detailed to allow the district engineer to determine that the adverse environmental effects of the activity will be no more than minimal. Identify the materials to be used in construction, as well as the methods by which the work is to be done.

Provide sketches when necessary to show that the proposed NWP activity complies with the terms of the applicable NWP(s). Sketches usually clarify the activity and result in a quicker decision. Sketches should contain sufficient detail to provide an illustrative description of the proposed NWP activity (e.g., a conceptual plan), but do not need to be detailed engineering plans.

The written descriptions and illustrations are an important part of the application. Please describe, in detail, what you wish to do. If more space is needed, attach an extra sheet of paper marked Block 19.

Block 20. Description of Proposed Mitigation Measures. Describe any proposed mitigation measures intended to reduce the adverse environmental effects caused by the proposed NWP activity. The description of any proposed mitigation measures should be sufficiently detailed to allow the district engineer to determine that the adverse environmental effects of the activity will be no more than minimal and to determine the need for compensatory mitigation or additional mitigation measures.

Block 21. Purpose of Nationwide Permit Activity. Describe the purpose and need for the proposed NWP activity. What will it be used for and why? Also include a brief description of any related activities associated with the proposed project. Provide the approximate dates you plan to begin and complete all work.

Block 22. Quantity of Wetlands, Streams, or Other Types of Waters Directly Affected by the Proposed Nationwide Permit Activity. For discharges of dredged or fill material into waters of the United States, provide the amount of wetlands, streams, or other types of waters filled, flooded, excavated, or drained by the proposed NWP activity. For structures or work in navigable waters of the United States subject to Section 10 of the Rivers and Harbors Act of 1899, provide the amount of navigable waters filled, dredged, or occupied by one or more structures (e.g., aids to navigation, mooring buoys) by the proposed NWP activity.

For multiple NWPs, or for separate and distant crossings of waters of the United States authorized by NWPs 12 or 14, attach an extra sheet of paper marked Block 21 to provide the quantities of wetlands, streams, or other types of waters filled, flooded, excavated, or drained (or dredged or occupied by structures, if in waters subject to Section 10 of the Rivers and Harbors Act of 1899) for each NWP. For NWPs 12 and 14, include the amount of wetlands, streams, or other types of waters filled, flooded, excavated, or drained for each separate and distant crossing of waters or wetlands. If more space is needed, attach an extra sheet of paper marked Block 22.

Block 23. Identify Any Other Nationwide Permit(s), Regional General Permit(s), or Individual Permit(s) Used to Authorize Any Part of Proposed Activity or Any Related Activity. List any other NWP(s), regional general permit(s), or individual permit(s) used or intended to be used to authorize any part of the proposed project or any related activity. For linear projects, list other separate and distant crossings of waters and wetlands authorized by NWPs 12 or 14 that do not require PCNs. If more space is needed, attach an extra sheet of paper marked Block 23.

Block 24. Compensatory Mitigation Statement for Losses of Greater Than 1/10-Acre of Wetlands When Pre-Construction Notification is Required. Paragraph (c) of NWP general condition 23 requires compensatory mitigation at a minimum one-for-one replacement ratio will be required for all wetland losses that exceed 1/10-acre and require pre-construction notification, unless the district engineer determines in writing that either some other form of mitigation is more environmentally appropriate or the adverse environmental effects of the proposed NWP activity are no more than minimal without compensatory mitigation, and provides an activity-specific waiver of this requirement. Describe the proposed compensatory mitigation for wetland losses greater than 1/10 acre, or provide an explanation of why the district engineer should not require wetland compensatory mitigation for the proposed NWP activity. If more space is needed, attach an extra sheet of paper marked Block 24.

Block 25. Is Any Portion of the Nationwide Permit Activity Already Complete? Describe any work that has already been completed for the NWP activity.

Block 26. List the Name(s) of Any Species Listed As Endangered or Threatened under the Endangered Species Act that Might be Affected by the Nationwide Permit Activity. If you are not a federal agency, and if any listed species or designated critical habitat might be affected or is in the vicinity of the proposed NWP activity, or if the proposed NWP activity is located in designated critical habitat, list the name(s) of those endangered or threatened species that might be affected by the proposed NWP activity or utilize the designated critical habitat that might be affected by the proposed NWP activity. If you are a Federal agency, and the proposed NWP activity requires a PCN, you must provide documentation demonstrating compliance with Section 7 of the Endangered Species Act.

Block 27. List Any Historic Properties that Have the Potential to be Affected by the Nationwide Permit Activity. If you are not a Federal agency, and if any historic properties have the potential to be affected by the proposed NWP activity, list the name(s) of those historic properties that have the potential to be affected by the proposed NWP activity. If you are a Federal agency, and the proposed NWP activity requires a PCN, you must provide documentation demonstrating compliance with Section 106 of the National Historic Preservation Act.

Block 28. List the Wild and Scenic River or Congressionally Designated Study River if the Nationwide Permit Activity Would Occur in such a River. If the proposed NWP activity will occur in a river in the National Wild and Scenic River System or in a river officially designated by Congress as a "study river" under the Wild and Scenic Rivers Act, provide the name of the river. For a list of Wild and Scenic Rivers and study rivers, please visit <http://www.rivers.gov/>.

Block 29. Nationwide Permit Activities that also Require Permission from the Corps Under 33 U.S.C. 408. If the proposed NWP activity also requires permission from the Corps under 33 U.S.C. 408 because it will temporarily or permanently alter, occupy, or use a Corps federal authorized civil works project, indicate whether you have submitted a written request for section 408 permission from the Corps district having jurisdiction over that project.

Block 30. Other Information Required For Nationwide Permit Pre-Construction Notifications. The terms of some of the Nationwide Permits include additional information requirements for preconstruction notifications:

- * NWP 3, Maintenance –information regarding the original design capacities and configurations of the outfalls, intakes, small impoundments, and canals.
- * NWP 31, Maintenance of Existing Flood Control Facilities –a description of the maintenance baseline and the dredged material disposal site.
- * NWP 33, Temporary Construction, Access, and Dewatering –a restoration plan showing how all temporary fills and structures will be removed and the area restored to pre-project conditions.
- * NWP 44, Mining Activities –if reclamation is required by other statutes, then a copy of the final reclamation plan must be submitted with the pre-construction notification.
- * NWP 45, Repair of Uplands Damaged by Discrete Events –documentation, such as a recent topographic survey or photographs, to justify the extent of the proposed restoration.
- * NWP 48, Commercial Shellfish Aquaculture Activities –(1) a map showing the boundaries of the project area, with latitude and longitude coordinates for each corner of the project area; (2) the name(s) of the species that will be cultivated during the period this NWP is in effect; (3) whether canopy predator nets will be used; (4) whether suspended cultivation techniques will be used; and (5) general water depths in the project area (a detailed survey is not required).
- * NWP 49, Coal Remining Activities –a document describing how the overall mining plan will result in a net increase in aquatic resource functions must be submitted to the district engineer and receive written authorization prior to commencing the activity.
- * NWP 50, Underground Coal Mining Activities –if reclamation is required by other statutes, then a copy of the reclamation plan must be submitted with the pre-construction notification.

If more space is needed, attach an extra sheet of paper marked Block 30.

Block 31. Signature of Applicant or Agent. The PCN must be signed by the person proposing to undertake the NWP activity, and if applicable, the authorized party (agent) that prepared the PCN. The signature of the person proposing to undertake the NWP activity shall be an affirmation that the party submitting the PCN possesses the requisite property rights to undertake the NWP activity (including compliance with special conditions, mitigation, etc.).

DELINEATION OF WETLANDS, OTHER SPECIAL AQUATIC SITES, AND OTHER WATERS

Each PCN must include a delineation of wetlands, other special aquatic sites, and other waters, such as lakes and ponds, and perennial, intermittent, and ephemeral streams, on the project site. Wetland delineations must be prepared in accordance with the current wetland delineation manual and regional supplement published by the Corps. The permittee may ask the Corps to delineate the special aquatic sites and other waters on the project site, but there may be a delay if the Corps does the delineation, especially if the project site is large or contains many wetlands, other special aquatic sites, and other waters. The 45 day PCN review period will not start until the delineation is submitted or has been completed by the Corps.

DRAWINGS AND ILLUSTRATIONS

General Information.

Three types of illustrations are needed to properly depict the work to be undertaken. These illustrations or drawings are identified as a Vicinity Map, a Plan View or a Typical Cross-Section Map. Identify each illustration with a figure or attachment number. For linear projects (e.g. roads, subsurface utility lines, etc.) gradient drawings should also be included. Please submit one original, or good quality copy, of all drawings on 8½x11 inch plain white paper (electronic media may be substituted). Use the fewest number of sheets necessary for your drawings or illustrations. Each illustration should identify the project, the applicant, and the type of illustration (vicinity map, plan view, or cross-section). While illustrations need not be professional (many small, private project illustrations are prepared by hand), they should be clear, accurate, and contain all necessary information.

ADDITIONAL INFORMATION AND REQUIREMENTS

For proposed NWP activities that involve discharges into waters of the United States, water quality certification from the State, Tribe, or EPA must be obtained or waived (see NWP general condition 25). Some States, Tribes, or EPA have issued water quality certification for one or more NWPs. Please check the appropriate Corps district web site to see if water quality certification has already been issued for the NWP(s) you wish to use. For proposed NWP activities in coastal states, state Coastal Zone Management Act consistency concurrence must be obtained, or a presumption of concurrence must occur (see NWP general condition 26). Some States have issued Coastal Zone Management Act consistency concurrences for one or more NWPs. Please check the appropriate Corps district web site to see if Coastal Zone Management Act consistency concurrence has already been issued for the NWP(s) you wish to use.



DUNN ENGINEERS, INC.

March 10, 2020

Mr. Harry E. Taylor, P.E.
USDA Rural Utilities Service
1550 Earl Core Road, Suite 101
Morgantown, WV 26505

**RE: Town of Ansted
Sewer System Improvements
Fayette County, West Virginia**

Dear Mr. Taylor:

We received comments from Virginia M. McDonald of the Ripley office regarding USDA projects. She stated the need/requirement for USDA-NRCS comments to be included in the Environmental Report (ER) (Prime Farmland Review). We assume this will be a standard requirement for all projects funded by the USDA and are to be completed by the "Federal Agency".

The Town of Ansted in Fayette County is planning to improve its existing sanitary sewer system as outlined on the attached U.S.G.S. topographical maps.

The project will include replacements to existing sewer lines and manholes, a short force main installation, installation of one Environment One grinder pump station, and replacement of existing storm sewers. All work is expected to be constructed in existing roads and private rights of way. Work will be done underground in areas that have been previously disturbed.

Upon completion, we respectfully request that the above be returned to our office so we may include those documents in our ER, as originally requested by the appropriate "area" offices.

Should you have any questions, please contact our office. Your assistance is greatly appreciated.

Sincerely,

DUNN ENGINEERS, INC.

Ethan Gartin, EIT

EG:sz

Enclosures



DUNN ENGINEERS, INC.

March 10, 2020

Mr. John Schmidt
Field Supervisor
U.S. Fish and Wildlife Service
694 Beverly Pike
Elkins, WV 26241

**RE: Town of Ansted
Sewer System Improvements
Fayette County, West Virginia**

Dear Mr. Schmidt:

The Town of Ansted in Fayette County is planning to improve its existing sanitary sewer system as outlined on the attached U.S.G.S. topographical maps.

The project will include replacements to existing sewer lines and manholes, a short force main installation, installation of one Environment One grinder pump station, and replacement of existing storm sewers. All work is expected to be constructed in existing roads and private rights of way. Work will be done underground in areas that have been previously disturbed.

Dunn Engineers, Inc. requests that the U.S. Fish and Wildlife Service retrieve and compile information pertaining to federally listed or proposed threatened and/or endangered species for the indicated area.

Should you have any questions or require additional information, please contact our office. Your assistance is greatly appreciated.

Sincerely,

DUNN ENGINEERS, INC.

Ethan Gartin, EIT

EG:sz

Enclosures



DUNN ENGINEERS, INC.

March 10, 2020

Ms. Barbara Sargent
Environmental Resources Specialist
Natural Heritage Program
WV Division of Natural Resources
Wildlife Resources Section
P.O. Box 67
Elkins, WV 26241

**RE: Town of Ansted
Sewer System Improvements
Fayette County, West Virginia**

Dear Ms. Sargent:

The Town of Ansted in Fayette County is planning to improve its existing sanitary sewer system as outlined on the attached U.S.G.S. topographical maps.

The project will include replacements to existing sewer lines and manholes, a short force main installation, installation of one Environment One grinder pump station, and replacement of existing storm sewers. All work is expected to be constructed in existing roads and private rights of way. Work will be done underground in areas that have been previously disturbed.

Dunn Engineers, Inc. requests that the Division of Natural Resources retrieve and compile information pertaining to rare/threatened/endangered species and wetlands for the indicated area.

The invoice for this request should be sent to:

Town of Ansted
P.O. Box 798
Ansted, WV 25812

Should you have any questions or require additional information, please contact our office. Your assistance is greatly appreciated.

Sincerely,

DUNN ENGINEERS, INC.

Ethan Gartin, EIT

EG:sz

Enclosures



DUNN ENGINEERS, INC.

March 10, 2020

West Virginia Department of Environmental Protection
Division of Air Quality
601 57th Street, S.E.
Charleston, WV 25304

**RE: Town of Ansted
Sewer System Improvements
Fayette County, West Virginia**

Dear Sir/Madam:

The Town of Ansted in Fayette County is planning to improve its existing sanitary sewer system as outlined on the attached U.S.G.S. topographical maps.

The project will include replacements to existing sewer lines and manholes, a short force main installation, installation of one Environment One grinder pump station, and replacement of existing storm sewers. All work is expected to be constructed in existing roads and private rights of way. Work will be done underground in areas that have been previously disturbed.

Dunn Engineers, Inc. requests that your office review the project to determine if any air quality would be adversely affected as a result of the project and provide guidance as to whether any specific permits will be required.

Should you have any questions or require additional information, please contact our office. Your assistance is greatly appreciated. We apologize for the inconvenience, but your review is required for USDA projects.

Sincerely,

DUNN ENGINEERS, INC.

Ethan Gartin, EIT

EG:sz

Enclosures



DUNN ENGINEERS, INC.

March 10, 2020

Ms. Susan M. Pierce
Deputy State Historic Preservation Officer
for Resource Protection
West Virginia Division of Culture & History
The Culture Center, Capitol Complex
1900 Kanawha Boulevard, E.
Charleston, WV 25305-0300

**RE: Town of Ansted
Sewer System Improvements
Fayette County, West Virginia**

Dear Ms. Pierce:

The Town of Ansted in Fayette County is planning to improve its existing sanitary sewer system as outlined on the attached U.S.G.S. topographical maps.

The project will include replacements to existing sewer lines and manholes, a short force main installation, installation of one Environment One grinder pump station, and replacement of existing storm sewers. All work is expected to be constructed in existing roads and private rights of way. Work will be done underground in areas that have been previously disturbed.

Dunn Engineers, Inc. requests that the Division of Culture and History review the project to determine any effects to cultural resources as required by the National Historic Preservation Act as amended. Please indicate whether any known historical, architectural, or archaeological sites listed on or eligible for inclusion in the National Register of Historic Places will be affected by this project.

Should you have any questions or require additional information, please contact our office. Your assistance is greatly appreciated.

Sincerely,

DUNN ENGINEERS, INC.

Ethan Gartin, EIT

EG:sz

Enclosures



DUNN ENGINEERS, INC.

March 10, 2020

Ms. Susan Porter
Chief, South/Transportation Branch
U.S. Army Corps of Engineers
Huntington District
502 Eighth Street
Huntington, WV 25701-2070

**RE: Town of Ansted
Sewer System Improvements
Fayette County, West Virginia**

Dear Ms. Porter:

The Town of Ansted in Fayette County is planning to improve its existing sanitary sewer system as outlined on the attached U.S.G.S. topographical maps.

The project will include replacements to existing sewer lines and manholes, a short force main installation, installation of one Environment One grinder pump station, and replacement of existing storm sewers. All work is expected to be constructed in existing roads and private rights of way. Work will be done underground in areas that have been previously disturbed.

Dunn Engineers, Inc. requests that the U.S. Army Corps of Engineers review the project area to determine if any wetlands, etc. might be affected and provide guidance as to whether any specific permits will be required.

Should you have any questions or require additional information, please contact our office. Your assistance is greatly appreciated.

Sincerely,

DUNN ENGINEERS, INC.

Ethan Gartin, EIT

EG:sz

Enclosures



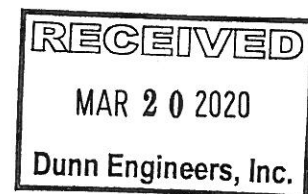
west virginia department of environmental protection

Division of Air Quality
601 57th Street, SE
Charleston, West Virginia 25304
304 926 0475 FAX: 304 926 0479

Austin Caperton, Cabinet Secretary
dep.wv.gov

March 16, 2020

Ethan W. Gartin, EI
Dunn Engineers, Inc.
400 South Ruffner Road
Charleston, WV 25314



RE: Town of Anstead
Sewer System Improvements
Fayette County, WV

Dear Mr. Gartin:

This letter responds to your correspondence of March 10, 2020, concerning the project referenced above. The West Virginia Division of Air Quality (WVDAQ) will only provide feedback on issues relating to air quality. If you determine that your project activity may have other environmental impacts, then you should consult with the appropriate environmental agency for that issue (e.g. the Division of Water and Waste Management should be consulted on potential water quality issues, for instance, if over one (1) acre will be disturbed, a construction stormwater general permit is required).

Based upon current regulatory requirements, the project referenced above as outlined in your letter does not appear to require any pre-construction permits, authorizations, or air quality analyses by WVDAQ except to the extent any of the following apply:

1. It is necessary to burn land clearing debris to complete the project; in which case, approval by the WVDEP Secretary or his or her authorized representative is required to conduct such burning (see 45CSR6) or;
2. The project entails the renovation, remodeling, or demolition, either partially or totally, of a structure, building, or installation, irrespective of the presence or absence of asbestos-containing materials and is subject to 45CSR34 (the asbestos National Emission Standards for Hazardous Air Pollutants (NESHAP) at 40CFR61, Subpart M). If such is the case, a formal Notification of Abatement, Demolition, or Renovation must be completed and timely filed with the WVDEP Secretary's authorized representative and approval received before commencement of the activities addressed in the Notification.

Promoting a healthy environment.

3. Backup or emergency electrical generators may be subject to federal and state requirements and require an air permit in accordance with 45CSR13.

If the project involves demolition, and/or excavation and transportation of soil/aggregates or the handling of materials that can cause problems such as nuisance dust emissions or entrainment or creation of objectionable odors, adequate air pollution control measures must be applied to prevent statutory air pollution problems as addressed by 45CSR4 and 45CSR17. Copies of all the WVDAQ rules cited in this letter may be reviewed on the agency's website at <http://www.dep.wv.gov/daq>. To review the rules, click on "Summary of Rules" after accessing the website.

You may obtain the latest published air quality data summaries and statistics for the WV Division of Air Quality's ambient air monitoring sites on our website (shown above). Simply click on the image for the Air Quality Annual Report. You may also find a document summarizing, in some detail, the attainment status of the 55 counties in West Virginia relative to National Ambient Air Quality Standards (NAAQS) on our website by clicking on the link for "Publications".

As of March 1, 2020, Fayette County is considered an attainment area for all criteria pollutants.

If you have any questions or need further assistance or information, please contact this office at (304) 926-0475.

Sincerely Yours,



Pam Kindrick
Planning Section

PKK/lmc



DIVISION OF NATURAL RESOURCES

Wildlife Resources Section
Elkins Operations Center
738 Ward Rd., PO Box 67
Elkins, WV 26241
Telephone 304-637-0245
Fax 304-637-0250

Stephen S. McDaniel
Director

March 18, 2020

RECEIVED

MAR 23 2020

Dunn Engineers, Inc.

Mr. Ethan Gartin
Dunn Engineers, Inc.
400 South Ruffner Road
Charleston, WV 25314

Dear Mr. Gartin:

We have reviewed Natural Heritage Program files for information on rare, threatened and endangered (RTE) species and sensitive habitats for the area of the proposed Sewer Systems Improvements for the Town of Ansted, Fayette County, WV.

We have no known records of any RTE species at the project site; however, this project is within a habitat buffer for the endangered Virginia big-eared bat. Coordination with the US Fish and Wildlife Service is required. The Wildlife Resources Section knows of no surveys that have been conducted in the area for rare species or rare species habitat. Consequently, this response is based on information currently available and should not be considered a comprehensive survey of the area under review. This response is valid for two years.

The information provided above is the product of a database search and retrieval. This information does not satisfy other consultation or permitting requirements for disturbances to the natural resources of the state, and further consultation may be required. Additionally, any concurrence requirements for federally listed species must come from the US Fish and Wildlife Service.

Thank you for your inquiry, and should you have any questions please feel free to contact me at the above number, or barbara.d.sargent@wv.gov. Enclosed please find an invoice.

Sincerely,



Barbara Sargent
Environmental Resources Specialist
Environmental Coordination
Operations Unit

enclosure



Governor Jim Justice

Director Brett W. McMillion

January 12, 2024

Jeremiah Goudy
Environmental Scientist II
The Thrasher Group, Inc.
1000 Corporate Landing
Charleston, WV 25311
jgoudy@thethrashergroup.com

Dear Mr. Goudy,

We have reviewed Natural Heritage Program files for information on rare, threatened, and endangered (RTE) species and sensitive habitats for the area of the proposed Town of Ansted Existing Wastewater Treatment Plant Upgrade in Fayette County Thrasher Project #D10-11008.

According to our database, the project lies within two species of bat buffer and one sensitive habitat as listed on the table below.

Species (Latin Name) or Habitat Feature	Common Name	Location/Description	Status
<i>Corynorhinus townsendii virginianus</i>	Virginia big eared bat	(4) caves/portals 6 mile buffer	Federal: endangered
<i>Perimyotis subflavus</i>	Tricolored bat	(3) caves/portals 5 mile buffer	Federal: proposed to be listed
Mill Creek		adjacent	State: high quality warmwater trout stocked

The information provided above is the product of a database search and retrieval. This information does not satisfy other consultation or permitting requirements for disturbances to the natural resources of the state, and further consultation may be required.

Additionally, any concurrence requirements for federally listed species must come from the US Fish and Wildlife Service. The Wildlife Resources Section knows of no other surveys that have been conducted in the area for rare species or rare species habitat. Consequently, this response is based on information currently available and should not be considered a comprehensive survey of the area under review. This response is valid for two years.

The information provided searched the following RTE bat buffers: Indiana bat (roost buffers - 2.5 miles, capture buffers - 5 miles, cave buffers - 5 miles), Northern Long-eared bat (roost buffers - 0.25 miles, capture buffers - 3 miles, cave buffers - 0.5 and 5 miles), tricolored bat (capture buffers - 3 miles, cave buffers - 5 miles) and the Virginia Big-Eared bat (cave buffers - 6 miles). The information provided above is the product of a database search and retrieval. This information does not satisfy other consultation or permitting requirements for disturbances to the natural resources of the state, and further consultation may be required. Additionally, any concurrence requirements for federally listed species must come from the US Fish and Wildlife Service.

Thank you for your inquiry, and should you have any questions please feel free to contact me at the number below, or Anne.M.Wakeford@wv.gov. Enclosed please find an invoice.

Sincerely,

Anne M. Wakeford

Anne M. Wakeford
Wildlife Biologist
Environmental Coordination
Operations Unit

Enclosure

Drive\Invoices\Thrasher 9



West Virginia Department of
**ARTS, CULTURE
AND HISTORY**

The Culture Center
1900 Kanawha Blvd., E.
Charleston, WV 25305-0300

Randall Reid-Smith, Curator
Phone 304.558.0220 • www.wvculture.org
Fax 304.558.2779 • TDD 304.558.3562
EEQ/AA Employer

February 7, 2024

Mr. Jeremiah Goudy
Environmental Scientist II
The Thrasher Group, Inc.
1000 Corporate Landing
Charleston, WV 25311
Via email: jgoudy@thethrashergroup.com

RE: Town of Ansted – Existing Wastewater Treatment Plant Upgrades Project
Thrasher Project # D10-11008
FR#: 24-0278-FA

Dear Mr. Goudy:

We have reviewed the information submitted in support of the above-referenced project. As required by Section 106 of the National Historic Preservation Act, as amended, and its implementing regulations, 36 CFR 800: "Protection of Historic Properties, we submit our comments.

According to the submitted information, the Town of Ansted proposes to upgrade and expand capacity at its existing wastewater treatment plant located in Fayette County, West Virginia. The work will include the construction of two new basins. No tree clearing is required for the project. The project area of potential effect is defined as the limit of disturbance which encompasses approximately two acres.

Architectural Resources:

We have reviewed the submitted information and determined that no architectural properties eligible for or included in the National Register of Historic Places are located within the proposed project's direct or indirect Area of Potential Effects (APE). The project consists of work within the existing WWTP, and there are no historic resources within the plant's boundary. The location of the plant is shielded from view by terrain and vegetation, no structures eligible for or included in the National Register of Historic Places will have line of sight to the project location. No further consultation is necessary regarding architectural resources; however, we ask that you contact our office if your project should change.

Archaeological Resources:

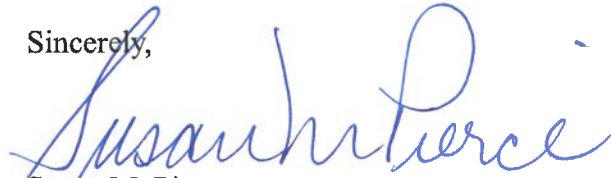
A search of our records indicates that no previously recorded archaeological resources are located within the proposed project area. Available information indicates that the proposed ground disturbing activities will be confined to previously disturbed areas within the existing plant property. Therefore, it is unlikely that significant archaeological resources will be encountered during the proposed project activities. In our opinion, the proposed wastewater

February 7, 2024
Mr. Goudy
FR#: 24-0278-FA
Page 2

treatment expansion and upgrade project will have no effect on archaeological historic properties. No further consultation is necessary regarding archaeological resources.

We appreciate the opportunity to be of service. *If you have questions regarding our comments or the Section 106 process, please contact Stephen L. Gifford, Structural Historian, or Carolyn M. Kender, Archaeologist, at (304) 558-0240.*

Sincerely,

A handwritten signature in blue ink, reading "Susan M. Pierce". The signature is fluid and cursive, with a large initial "S" and "P".

Susan M. Pierce
Deputy State Historic Preservation Officer

SMP/CMK/SLG

APPENDIX G

DMR SUMMARY - WASTEWATER TREATMENT PLANT DATA

(JAN 2022 – FEB 2024)

Town of Ansted Wastewater Treatment Plant - DMR Data 2022-2024

Month	Flows		BOD		SS		NH ₃
	AVG	Peak	Effluent	%	Effluent	%	
Permit Limits	Report only		30 mg/ℓ	85	30 mg/ℓ	85	15 mg/ℓ
January 2022	0.37	0.71	9.20	95.00	11.80	87.00	0.15
February	0.37	0.49	5.10	95.00	11.00	88.00	0.15
March	0.37	0.60	11.00	72.50	18.50	57.00	0.19
April	0.31	0.56	16.00	87.00	19.80	82.00	0.43
May	0.32	0.69	9.00	98.30	9.60	94.30	0.20
June	0.22	0.57	20.00	85.00	12.00	90.00	0.46
July	0.35	0.74	4.40	97.80	10.20	95.40	0.06
August	0.24	0.61	3.00	97.27	12.00	85.00	0.15
September	0.31	0.65	3.70	97.50	7.11	95.30	0.09
October	0.30	0.75	4.40	96.33	9.20	91.64	0.68
November	0.30	0.54	4.30	94.27	9.20	87.73	0.04
December	0.34	0.65	5.80	91.94	9.43	90.45	0.06
Month	Flows		BOD		SS		NH ₃
	AVG	Peak	Effluent	%	Effluent	%	
Permit Limits	Report only		30 mg/ℓ	85	30 mg/ℓ	85	15 mg/ℓ
January 2023	0.31	0.68	11.00	84.50	24.80	73.00	0.05
February	0.44	0.78	10.00	98.80	11.20	91.50	0.01
March	0.38	0.58	5.50	95.00	12.00	87.50	0.29
April	0.35	0.49	18.00	83.00	13.70	88.00	2.80
May	0.32	0.47	11.00	68.57	8.86	92.09	3.00
June	0.22	0.18	9.40	93.70	13.00	90.10	13.00
July	0.36	0.94	29.00	77.70	8.20	88.90	1.80
August	0.27	0.65	11.00	89.00	11.10	88.00	3.00
September	0.35	0.89	6.70	93.00	8.00	92.50	0.14
October	0.25	0.47	13.00	90.00	14.40	83.00	1.30
November	0.30	0.53	9.00	96.80	13.40	92.30	0.33
December	0.39	0.92	22.00	56.00	64.00		0.05
Month	Flows		BOD		SS		NH ₃
	AVG	Peak	Effluent	%	Effluent	%	
Permit Limits	Report only		30 mg/ℓ	85	30 mg/ℓ	85	15 mg/ℓ
January 2024	0.526	1	20	77.3	32	56.8	1.10
February	0.54	1	36	33.33	36	10	0.08
AVERAGE	0.34	0.66	11.85	86.33	15.79	79.9	1.14

Permit Violations

APPENDIX H

WV DEP ORDER NO. 8839



west virginia department of environmental protection

Environmental Enforcement
601 57th Street SE
Charleston, WV 25304
Telephone: (304) 926-0470 Fax: (304) 926-0452

Austin Caperton, Cabinet Secretary
www.dep.wv.gov

October 22, 2018

Town of Ansted
Attn. Mayor Kalispel Holcomb
PO Box 798
Ansted, WV 25812

CERTIFIED RETURN RECEIPT REQUESTED

91 7199 9991 7039 1694 6591


**RE: Violation of Chapter 22, Article 11
of the WV State Code**

Dear Mayor Holcomb:

Enclosed is revised CONSENT ORDER NUMBER 8839, dated October 22, 2018. This action is based upon the investigation and recommendation of the West Virginia Department of Environmental Protection's (WVDEP) Environmental Enforcement unit in response to Town of Ansted violating Chapter 22, Article 11 of the WV State Code at its facility located in Ansted, Fayette County, West Virginia. This revision is based upon your recent meeting with WVDEP personnel and your submittal of financial documents, which were used to evaluate your ability to pay a civil administrative penalty. This revision is also based upon your recent submittal of a project application to the Infrastructure and Jobs Development Council (IJDC). This administrative settlement is being offered on behalf of the director of the Division of Water and Waste Management.

Please review, sign and return the original copy of the revised ORDER to me within five (5) working days of receipt. Subsequently, WVDEP will initiate the public notice process.

Sincerely,



Jeremy W. Bandy
Chief Inspector

Enclosure

cc: Harold D. Ward, Acting Director, DWWM (via e-mail)
Brad Wright, Assistant Chief Inspector, EE/WW (via e-mail)
David C. Simmons, Assistant Chief Inspector, EE (via e-mail)
Laura McGee, Environmental Resources Specialist, EE (via e-mail)
Kevin Lilly, Environmental Inspector Supervisor, EE/WW (via e-mail)
Shyrel Moellendick, MSSS, EE (via e-mail)
Roger G. Hanshaw, Bowles Rice LLP (via e-mail)

Promoting a healthy environment.



west virginia department of environmental protection

Division of Water and Waste Management
601 57th Street SE
Charleston, WV 25304
Phone: (304) 926-0470
Fax: (304) 926-0452

Austin Caperton, Cabinet Secretary
www.dep.wv.gov

**CONSENT ORDER
ISSUED UNDER THE
WATER POLLUTION CONTROL ACT
WEST VIRGINIA CODE, CHAPTER 22, ARTICLE 11**

TO: Town of Ansted
Attn: Mayor Kalispel Holcomb
PO Box 798
Ansted, WV 25812

DATE: October 22, 2018

ORDER NO.: 8839

INTRODUCTION

This Consent Order is issued by the Director of the Division of Water and Waste Management (hereinafter "Director"), under the authority of West Virginia Code, Chapter 22, Article 11, Section 1 et seq. to Town of Ansted (hereinafter "Ansted").

FINDINGS OF FACT

In support of this Order, the Director hereby finds the following:

1. Ansted operates a wastewater treatment plant located in Ansted, Fayette County, West Virginia. Ansted was reissued WV/NPDES Water Pollution Control Permit No. WV0020672 on December 31, 2013.
2. On January 10, 2017, West Virginia Department of Environmental Protection (WVDEP) personnel conducted an inspection of the facility. During the inspection, violations of the following sections of WV Legislative Rules and the WV/NPDES permit were observed and documented:
 - a. 47CSR2 Section 3.2.a and Appendix A.I.12 - Ansted caused conditions not allowable in waters of the State. Specifically, there were distinctly visible solids in Mill Creek at Outlet No. 001.
 - b. Section A.001 – The Permittee exceeded its WV/NPDES permit parameters.

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- c. Section C.11. – The Permittee failed to submit, within ninety (90) days of issuance of the WV/NPDES permit, a Plan of Corrective Action following three (3) consecutive months of exceeding ninety percent (90%) of its average design flow.
- d. Appendix A.II.1 – The Permittee failed to properly operate and maintain the facility. Specifically, seven (7) out of eight (8) lift stations only had one (1) operational pump.

As a result of the aforementioned violations, Notice of Violation (NOV) Nos. W17-10-005-GCM and W17-10-006-GCM were issued to Ansted.

- 3. On August 29, 2017, WVDEP personnel responded to a citizen complaint. During the complaint investigation, violations of the following sections of WV State Code and WV Legislative Rules were observed and documented:
 - a. 22-11-8(b)(1) - Ansted discharged sewage, or the effluent therefrom, from an unpermitted point into waters of the State. Specifically, discharge from a bypass pipe entered into Mill Creek.
 - b. 47CSR2 Section 3.2.a. – As the result of the aforementioned bypass, Ansted caused conditions not allowable in waters of the State by creating distinctly visible settleable solids in Mill Creek.

As a result of the aforementioned violations, NOV Nos. W17-10-073-KM and W17-10-074-KM were issued to Ansted.

- 4. On January 31, 2018, WVDEP personnel conducted an inspection of the facility. During the inspection, violations of the following sections of WV State Code, Legislative Rule, and the permit were observed and documented:
 - a. 47CSR2 Section 3.2.a. – Ansted caused conditions not allowable in waters of the State by creating distinctly visible solids in Mill Creek at Outlet No. 001.
 - b. 22-11-8(b)(1) – A record review of reported spills reflected that Ansted discharged sewage, or the effluent therefrom, from an unpermitted point into waters of the State on multiple occasions.
 - c. Section A.001 - The Permittee exceeded its WV/NPDES permit parameters.
 - d. Section C.19 – The Permittee failed to properly submit quarterly Inflow and Infiltration (I&I) progress reports.
 - e. Appendix A.II.1 – The Permittee failed to properly operate and maintain the facility. Specifically, the flights were broken, and the clarifier was not operating properly.

As a result of the aforementioned violations, NOV Nos. W18-10-012-KM and W18-10-013-KM was issued to Ansted.

- 5. On April 24, 2018, WVDEP personnel conducted a complaint investigation. During the investigation, WVDEP personnel observed and documented the following violation of WV Legislative Rule:
 - a. 47CSR2 Section 3.2.a – Ansted caused conditions not allowable in waters of the State by creating distinctly visible solids in Mill Creek at Outlet No. 001.

As a result of the aforementioned violation, NOV No. W18-10-037-KM was issued to Ansted.

6. On May 2, 2018, WVDEP personnel conducted a review of facility records from the time period of April 1, 2016 through March 31, 2018. During this review, the following violations of the terms and conditions of Ansted's WV/NPDES permit were observed:
 - a. Section A.001 - Thirty-seven (37) exceedances of Ansted's permit parameters were observed and documented (Table 1). These exceedances can be further defined as:
 - i. Minor violations-twenty-two (22)
 - ii. Moderate violations-thirteen (13)
 - iii. Major violations-two (2)
 - b. Section C.20 – Ansted discharged from an unpermitted point. Specifically, Ansted reported eighty-two (82) unauthorized sewage spills on the following dates:
4/27/2016, 5/2/2016, 5/2/2016, 5/18/2016, 5/18/2016, 6/23/2016, 6/23/2016, 6/23/2016, 8/3/2016, 8/8/2016, 8/8/2016, 8/8/2016, 8/18/2016, 10/21/2016, 10/21/2016, 11/30/2016, 11/30/2016, 12/2/2016, 12/12/2016, 12/12/2016, 12/12/2016, 12/12/2016, 1/3/2017, 1/3/2017, 1/3/2017, 1/10/2017, 1/12/2017, 1/15/2017, 1/17/2017, 1/17/2017, 1/23/2017, 1/23/2017, 1/23/2017, 1/23/2017, 3/10/2017, 3/10/2017, 3/27/2017, 3/27/2017, 4/7/2017, 4/7/2017, 4/7/2017, 4/7/2017, 5/11/2017, 5/11/2017, 5/12/2017, 5/12/2017, 6/5/2017, 6/5/2017, 6/5/2017, 6/5/2017, 6/19/2017, 6/19/2017, 6/19/2017, 7/27/2017, 7/27/2017, 7/27/2017, 8/7/2017, 8/7/2017, 8/7/2017, 8/7/2017, 8/29/2017, 9/18/2017, 9/19/2017, 10/9/2017, 10/30/2017, 1/9/2018, 2/7/2018, 2/7/2018, 2/7/2018, 2/12/2018, 2/12/2018, 2/26/2018, 3/7/2018, 3/21/2018, 3/21/2018, 3/21/2018, 3/28/2018, 3/28/2018, and 3/28/2018.
 - c. Section C.19 – The Permittee failed to properly submit quarterly Inflow and Infiltration (I&I) progress reports for the following five (5) quarters: 3rd quarter 2016; 1st quarter 2017; 2nd quarter 2017; third quarter 2017; and 4th quarter 2017.
7. On June 11, 2018, Ansted submitted financial documents to WVDEP. The provided information was used to perform an economic analysis which evaluated Ansted's ability to pay a civil administrative penalty.
8. On July 25, 2018, WVDEP personnel and representatives of Ansted met to discuss the terms and conditions of this Order.
9. On September 11, 2018, Ansted submitted an application to the Infrastructure and Jobs Development Council (IJDC), which was given Project No. 2018S-1763. The proposed Project will include pump station upgrades and a design plan for the wastewater treatment plant. Ansted represents that subsequent phases of the project will include wastewater treatment plant upgrades and collection system upgrades.

ORDER FOR COMPLIANCE

Now, therefore, in accordance with Chapter 22, Article 11, Section 1 et seq. of the West Virginia Code, it is hereby agreed between the parties, and ORDERED by the Director:

1. Ansted shall immediately take all measures to initiate compliance with all terms and conditions of its WV/NPDES permit and pertinent laws and rules.
2. Because of Ansted's West Virginia Code, Legislative Rule and permit violations, Ansted shall be assessed a civil administrative penalty of five thousand dollars (\$5,000) to be paid to the West Virginia Department of Environmental Protection for deposit in the Water Quality Management Fund in accordance with the following twelve (12) month payment schedule: Four hundred sixteen dollars and sixty-six cents (\$416.66) shall be submitted within thirty (30) days after the effective date of this Order and by the first day of each month thereafter for the next ten (10) months. Four hundred sixteen dollars and seventy-four cents (\$416.74) shall be submitted by the first day of the final month.

Payments made pursuant to this paragraph are not tax-deductible for purposes of State or federal law. **Payment shall include a reference to the Order No. and shall be mailed to:**

**Chief Inspector
Environmental Enforcement - Mail Code #031328
WV-DEP
601 57th Street SE
Charleston, WV 25304**

OTHER PROVISIONS

1. Ansted hereby waives its right to appeal this Order under the provisions of Chapter 22, Article 11, Section 21 of the Code of West Virginia. Under this Order, Ansted agrees to take all actions required by the terms and conditions of this Order and consents to and will not contest the Director's jurisdiction regarding this Order. However, Ansted does not admit to any factual and legal determinations made by the Director and reserves all rights and defenses available regarding liability or responsibility in any proceedings regarding Ansted other than proceedings, administrative or civil, to enforce this Order.
2. The Director reserves the right to take further action if compliance with the terms and conditions of this Order does not adequately address the violations noted herein and reserves all rights and defenses which he may have pursuant to any legal authority, as well as the right to raise, as a basis for supporting such legal authority or defenses, facts other than those contained in the Findings of Fact.
3. If any event occurs which causes delay in the achievement of the requirements of this Order, Ansted shall have the burden of proving that the delay was caused by circumstances beyond its reasonable control which could not have been overcome by due diligence (i.e., force majeure). Force majeure shall not include delays caused or

contributed to by the lack of sufficient funding. Within three (3) working days after Ansted becomes aware of such a delay, notification shall be provided to the Director/Chief Inspector and Ansted shall, within ten (10) working days of initial notification, submit a detailed written explanation of the anticipated length and cause of the delay, the measures taken and/or to be taken to prevent or minimize the delay, and a timetable by which Ansted intends to implement these measures. If the Director agrees that the delay has been or will be caused by circumstances beyond the reasonable control of Ansted (i.e., force majeure), the time for performance hereunder shall be extended for a period of time equal to the delay resulting from such circumstances. A force majeure amendment granted by the Director shall be considered a binding extension of this Order and of the requirements herein. The determination of the Director shall be final and not subject to appeal.

4. Compliance with the terms and conditions of this Order shall not in any way be construed as relieving Ansted of the obligation to comply with any applicable law, permit, other order, or any other requirement otherwise applicable. Violations of the terms and conditions of this Order may subject Ansted to additional penalties and injunctive relief in accordance with the applicable law.
5. The provisions of this Order are severable and should a court or board of competent jurisdiction declare any provisions to be invalid or unenforceable, all other provisions shall remain in full force and effect.
6. This Order is binding on Ansted, its successors and assigns.
7. This Order shall terminate upon Ansted's notification of full compliance with the "Order for Compliance" and verification of this notification by WVDEP.

Mayor Kalispel Holcomb
Town of Ansted

Date

Public Notice begin:

Date

Public Notice end:

Date

Harold D. Ward, Acting Director
Division of Water and Waste Management

Date

Table One: Ansted DMR Exceedance Summary

Outlet 001 DMR Exceedances - AVG. MONTHLY -April 2016 through March 2018						Degree of non-compliance		
Date	Parameter	Units	Permitted avg. monthly	Reported avg. monthly	% Exceedance	Min	Mod	Maj
2/2017	BOD 5-Day	lbs/day	57.6	70.1	22%	X	-	-
3/2017	BOD 5-Day	lbs/day	57.6	97.8	70%	-	X	-
3/2018	BOD 5-Day	lbs/day	57.6	94.5	64%	-	X	-
1/2017	Suspended Solids, Total	lbs/day	57.6	178.8	210%	-	X	-
3/2017	Suspended Solids, Total	lbs/day	57.6	73.4	27%	X	-	-
6/2017	Suspended Solids, Total	lbs/day	57.6	77.5	35%	X	-	-
11/2017	Suspended Solids, Total	lbs/day	57.6	88	53%	-	X	-
2/2018	Suspended Solids, Total	lbs/day	57.6	80.4	40%	X	-	-
3/2018	Suspended Solids, Total	lbs/day	57.6	99.3	72%	-	X	-
1/2017	Suspended Solids, Total	mg/l	30	54	80%	-	X	-
11/2017	Suspended Solids, Total	mg/l	30	52	73%	-	X	-
1/2018	Suspended Solids, Total	mg/l	30	33	10%	X	-	-
8/2017	Ammonia Nitrogen	lbs/day	13.1	23.6	80%	-	X	-
8/2017	Ammonia Nitrogen	mg/l	6.84	16	134%	-	X	-
6/2017	Copper, Total Recovered	mg/l	0.0059	0.0073	24%	X	-	-

Outlet 001 DMR Exceedances - MAX. DAILY - April 2016 through March 2018						Degree of non-compliance		
Date	Parameter	Units	Permitted max. daily	Reported max. daily	% Exceedance	Min	Mod	Maj
1/2017	Suspended Solids, Total	lbs/day	115.2	178.8	55%	X	-	-
8/2017	Ammonia Nitrogen	mg/l	13.73	16	17%	X	-	-

Outlet 001 Exceedances - Minimum 85% Removal - April 2016 through March 2018						Degree of non-compliance		
Date	Parameter	Units	Permitted Minimum % Removal	Reported % Removal	% Exceedance	Min	Mod	Maj
5/2016	BOD	mg/l	85.0	82.2	3.3%	X	-	-
12/2016	BOD	mg/l	85.0	78.7	7.4%	X	-	-
1/2017	BOD	mg/l	85.0	47.1	44.6%	-	X	-
2/2017	BOD	mg/l	85.0	59	30.6%	X	-	-
3/2017	BOD	mg/l	85.0	52	38.8%	-	X	-
6/2017	BOD	mg/l	85.0	60.8	28.5%	X	-	-
8/2017	BOD	mg/l	85.0	70.5	17.1%	X	-	-
2/2018	BOD	mg/l	85.0	83	2.4%	X	-	-
3/2018	BOD	mg/l	85.0	77	9.4%	X	-	-
5/2016	Suspended Solids	mg/l	85.0	78.6	7.5%	X	-	-
6/2016	Suspended Solids	mg/l	85.0	78.75	7.4%	X	-	-
12/2016	Suspended Solids	mg/l	85.0	76.6	9.9%	X	-	-
1/2017	Suspended Solids	mg/l	85.0	18.2	78.6%	-	-	X
2/2017	Suspended Solids	mg/l	85.0	68	20.0%	X	-	-
3/2017	Suspended Solids	mg/l	85.0	53.8	36.7%	-	X	-
5/2017	Suspended Solids	mg/l	85.0	84.27	0.9%	X	-	-
6/2017	Suspended Solids	mg/l	85.0	61	28.2%	X	-	-
9/2017	Suspended Solids	mg/l	85.0	21.8	74.4%	-	-	X
11/2017	Suspended Solids	mg/l	85.0	52.7	38.0%	-	X	-
2/2018	Suspended Solids	mg/l	85.0	73	14.1%	X	-	-

Outlet 001 Totals		Degree of non-compliance		
		Min	Mod	Maj
		22	13	2

Town of Ansted Photo Log



1/10/17 – Outlet No. 001 discharge creating conditions not allowable in Mill Creek.



8/29/17 – Flow from bypass pipe creating conditions not allowable in Mill Creek



1/31/18 – Outlet No. 001 discharge creating conditions not allowable in Mill Creek



1/31/18 – Clarifier with broken flights



4/24/18 Conditions not allowable in waters of the State – visible suspended solids.

Base Penalty Calculation

(pursuant to 47CSR1-6.1)

Responsible Party:

Town of Ansted

Receiving Stream:

Mill Creek

Treatment System Design Maximum Flow: 0.23 MGD

Treatment System Actual Average Flow: MGD (if known)

Enter FOF# and rate each finding as to Potential and Extent.

1)	Potential for Harm Factor	Factor Range	FOF#											
			2a	2c	2d	3a, 3b	4a	4e	5a	6ai	6aii	6b	6c	
a)	Amount of Pollutant Released	1 to 3	1	1	1	1	1	1	1	1	1	1	1	
b)	Toxicity of Pollutant	0 to 3	1	0	1	1	1	1	1	1	1	1	0	
c)	Sensitivity of the Environment	0 to 3	1	0	1	1	1	1	1	1	1	1	0	
d)	Length of Time	1 to 3	1	1	1	1	1	1	1	1	1	1	1	
e)	Actual Exposure and Effects thereon	0 to 3	1	0	1	1	1	1	1	1	1	1	0	
	Average Potential for Harm Factor		1	0.4	1	1	1	1	1	1	1	1	0.4	No
2)	Extent of Deviation Factor	Factor Range												
	Degree of Non-Compliance	1 to 3	3	3	3	3	3	3	3	1	2	3	3	

Potential for Harm Factors:

1)c - Sensitivity of the Environment Potentially Affected (0 for "dead" stream)

1)d - Length of Time of Violation

1)e - Actual Human/Environmental Exposure and Resulting Effects thereon

Examples/Guidance:

Note: Rate as 1 for Minor, 2 for Moderate and 3 for Major. Rate as 0 if it does not apply.

Minor = exceedance of permit limit by $\leq 40\%$ for Avg. Monthly or $\leq 100\%$ for Daily Max., exceed numeric WQ standard by $\leq 100\%$, or report doesn't contain some minor information.

Moderate = exceedance of permit limit by $\geq 41\%$ and $\leq 300\%$ for Avg. Monthly, $\geq 101\%$ and $\leq 600\%$ for Daily Max., exceed numeric WQ standard by $\geq 101\%$ and $\leq 600\%$ or report doesn't fully address intended subject matter.

Major = exceedance of permit limit by $\geq 301\%$ for Avg. Monthly, $\geq 601\%$ for Daily Max., exceed numeric WQ standard by $\geq 601\%$, failure to submit a report, failure to obtain a permit, failure to report a spill, etc. Note that a facility in SNC should be rated as major for length of time and degree of non-compliance.

Narrative WQ standard violations - case-by-case.

Continue rating Findings of Facts (FOF) here, if necessary. Otherwise, continue on Page 3.

[illegible]

		Extent of Deviation from Requirement		
		Major	Moderate	Minor
Potential for Harm to Human Health or the Environment	Major	\$8,000 to \$10,000	\$6,000 to \$8,000	\$5,000 to \$6,000
	Moderate	\$4,000 to \$5,000	\$3,000 to \$4,000	\$2,000 to \$3,000
	Minor	\$1,500 to \$2,000	\$1,000 to \$1,500	Up to \$1,000

FOF #	Potential for Harm	Extent of Deviation	Penalty	Multiple Factor	Base Penalty
2a	Minor	Major	\$2,000	1	\$2,000
2c	Minor	Major	\$1,700	1	\$1,700
2d	Minor	Major	\$2,000	1	\$2,000
3a, 3b	Minor	Major	\$2,000	1	\$2,000
4a	Minor	Major	\$2,000	1	\$2,000
4e	Minor	Major	\$2,000	1	\$2,000
5a	Minor	Major	\$2,000	1	\$2,000
6ai	Minor	Minor	\$1,000	8	\$8,000
6aii	Minor	Moderate	\$1,500	9	\$13,500
6b	Minor	Major	\$2,000	82	\$164,000
6c	Minor	Major	\$1,700	5	\$8,500
0	FALSE	FALSE	FALSE	1	\$0
0	FALSE	FALSE	FALSE	1	\$0
0	FALSE	FALSE	FALSE	1	\$0
0	FALSE	FALSE	FALSE	1	\$0
0	FALSE	FALSE	FALSE	1	\$0
0	FALSE	FALSE	FALSE	1	\$0
0	FALSE	FALSE	FALSE	1	\$0
0	FALSE	FALSE	FALSE	1	\$0
0	FALSE	FALSE	FALSE	1	\$0
0	FALSE	FALSE	FALSE	1	\$0
0	FALSE	FALSE	FALSE	1	\$0
0	FALSE	FALSE	FALSE	1	\$0
0	FALSE	FALSE	FALSE	1	\$0
0	FALSE	FALSE	FALSE	1	\$0
0	FALSE	FALSE	FALSE	1	\$0
0	FALSE	FALSE	FALSE	1	\$0
0	FALSE	FALSE	FALSE	1	\$0
Total Base Penalty					\$207,700

Penalty Adjustment Factors

(pursuant to 47CSR1-6.2)

Penalty Adjustment Factor

6.2.b.1 - Degree of or absence of willfulness and/or negligence - 0% to 30% increase

6.2.b.4 - Previous compliance/noncompliance history - 0% to 100% increase - based upon review of last three (3) years - Warning = maximum of 5% each, N.O.V. = maximum of 10% each, previous Order = maximum of 25% each - Consistent DMR violations for <1 year = 10% maximum, for >1 year but <2 years = 20% maximum, for >2 years but <3 years = 30% maximum, for >3 years = 40 % maximum

6.2.b.6 - Economic benefits derived by the responsible party (increase to be determined)

6.2.b.7 - Public Interest (increase to be determined)

6.2.b.8 - Loss of enjoyment of the environment (increase to be determined)

6.2.b.9 - Staff investigative costs (increase to be determined)

6.2.b.10 - Other factors

Size of Violator: 0 - 50% decrease

NOTE: This factor is not available to discharges that are causing a water quality violation. This factor does not apply to a commercial or industrial facility that employees or is part of a corporation that employees more than 100 individuals.

Avg. Daily WW Discharge Flow (gpd)	% Reduction Factor
< 5,000	50
5,000 to 9,999	40
10,000 to 19,999	30
20,000 to 29,999	20
30,000 to 39,999	10
40,000 to 99,999	5
> 100,000	0

Additional Other factors to be determined for increases or decreases on a case-by-case basis.

Public Notice Costs (cost for newspaper advertisement)

6.2.b.2 - Good Faith - 10% decrease to 10% increase

6.2.b.3 - Cooperation with the Secretary - 0% to 10% decrease

6.2.b.5 - Ability to pay a civil penalty - 0% to 100% decrease

Base Penalty Adjustments

(pursuant to 47CSR1-6.2)

Penalty Adjustment Factor	% Increase	% Decrease	Base Penalty Adjustments
6.2.b.1 - Willfulness and/or negligence -	10		\$20,770
6.2.b.4 - Compliance/noncompliance history			\$0
6.2.b.6 - Economic benefits - (flat monetary increase)			\$0
6.2.b.7 - Public Interest - (flat monetary increase)			\$0
6.2.b.8 - Loss of enjoyment - (flat monetary increase)			\$0
6.2.b.9 - Investigative costs - (flat monetary increase)			\$0
6.2.b.10 - Other factors (size of violator)			\$0
6.2.b.10 - Additional Other Factors - Increase (flat monetary increase)			\$0
6.2.b.10 - Additional Other Factors - Decrease (flat monetary decrease)			\$0
Public Notice Costs (flat monetary increase)	\$30		\$30
6.2.b.2 - Good Faith - Increase			\$0
6.2.b.2 - Good Faith - Decrease		10	(\$20,770)
6.2.b.3 - Cooperation with the Secretary		10	(\$20,770)
6.2.b.5 - Ability to Pay		87.607	(\$181,960)
Penalty Adjustments			(\$202,700)
Penalty =			\$5,000

Estimated Economic Benefit Item	Estimated Benefit (\$)
Monitoring & Reporting	
Installation & Maintenance of Pollution Control Equipment	
O&M expenses and cost of equipment/materials needed for compliance	
Permit Application or Modification	
Competitive Advantage	
Estimated Economic Benefit	\$0
Comments: Economic benefit not warranted.	

APPENDIX I
EXISTING TARIFF

P.S.C. W. Va. No. 13
Canceling P.S.C. W. Va. No. 12

TOWN OF ANSTED, a public utility
OF
ANSTED, WEST VIRGINIA
RATES, RULES AND REGULATIONS FOR FURNISHING
SEWERAGE AND SEWAGE DISPOSAL SERVICE
at Ansted and vicinity, Fayette County, West Virginia
Filed with THE PUBLIC SERVICE COMMISSION
of
WEST VIRGINIA

Issued May 23, 2023

Effective for service rendered
on or after April 20, 2023.

Adopted by Town Council on December 3, 2020,
and upon substantial completion of the project
approved by the Public Service Commission in
Case No. 20-0710-S-CN.

ORDS Ansted 20A

Issued by TOWN OF ANSTED, a public utility

By Stephen Rudenro
Mayer
Title

RULES AND REGULATIONS

- I. Rules and Regulations for the Government of Sewerage Utilities adopted by the Public Service Commission of West Virginia, and now in effect, and all amendments thereto and modifications thereof hereafter made by said Commission.
- II. The Town of Ansted shall have a lien on all lands, building and premises served by the sewer facilities thereof, which lien shall attach when fees, rates and charges have been delinquent for 30 days, as provided by West Virginia Code, Chapter 16, Article 13, Section 16.

APPLICABILITY

Applicable inside the entire territory served.

AVAILABILITY OF SERVICE

Available for general domestic, commercial and industrial sanitary sewer service.

(I) RATES

Flat rate per 1,000 gallons used per month \$20.10 per 1,000 gallons

(I) MINIMUM CHARGE

No bill will be rendered for less than \$40.20, which is equivalent of 2,000 gallons per month at a rate of \$20.10 per 1000 gallons.

(I) UNMETERED RATE

The unmetered monthly bill shall be \$80.40 per month (based on 4000 gallons).

CONNECTION CHARGE

The connection charge for each new tap to the system shall be \$300.00 or the actual costs as solely determined by the Town.

DISCONNECT FOR NON-PAYMENT

If any bill is not paid within 20 days after the bill due date, water service to the customer will be discontinued and will not be restored until all past due bills have been paid in full, together with all penalty charges, the disconnection charge and the reconnection charge, subject to the applicable rules of the Public Service Commission of West Virginia.

(I) Indicates increase

DISCONNECT/RECONNECT/ADMINISTRATIVE FEES

Whenever water service has been disconnected for nonpayment of sewer bills in conjunction with a water service termination agreement with West Virginia American Water, a disconnection fee of \$20.00 shall be charged; or in the event the delinquent sewer bill is collected by the water company, an administrative fee of \$20.00 shall be charged.

Whenever water service has been disconnected for nonpayment of sewer bills in conjunction with a water service termination agreement with West Virginia American Water, a reconnection fee of \$20.00 shall be charged; or in the event the delinquent sewer bill is collected by the water company, an administrative fee of \$20.00 shall be charged.

DELAYED PAYMENT PENALTY

The above schedule is net. On all accounts not paid in full when due, ten percent (10%) will be added to the net current amount unpaid. This payment is not interest and is to be collected only once for each bill where it is appropriate.

SECURITY DEPOSIT

A security deposit will be required for all new accounts opened within the territory served. The deposit shall be not more than fifty dollars (\$50) or two-twelfths (2/12) of the average annual usage of the applicant's specific customer class, whichever is greater.

RETURNED CHECK CHARGE

A service charge equal to the actual bank fee assessed by the banking institution to the sewer utility up to a maximum of \$25.00 (per WV Code 61-3-39e) will be imposed upon any customer whose check for payment of charges is returned by the banking institution due to insufficient funds.

MUNICIPAL EXCISE TAX SURCHARGE

The municipality listed below, having imposed public utility tax computed on the basis of two percent (2%) of revenues from the sewer service sales by the sewer utility within the corporate limits of such municipalities, shall be billed as a "surcharge" to the customers receiving service within said corporate limits.

The sewer utility is required to collect the utility tax pursuant to West Virginia Code (8-13-5a).

Customers receiving sewer service within the corporate limits of the specified municipality shall pay a surcharge based on the following surcharge rates:

<u>Municipality</u>	<u>Utility Excise Tax</u>
Town of Ansted	Local Utility Excise Tax Rate: Two Percent (2%)

STORM SEWER DRAIN AND BROKEN OR DAMAGED SERVICE CONNECTION

No person shall connect or permit to be connected a storm sewer or storm drain to a sanitary sewer, or otherwise allow or permit storm water to enter a sanitary sewer, or continue to have a storm sewer or storm drain connected to a sanitary sewer, or continue to allow or permit storm water to enter a sanitary sewer.

The provision of this section shall also apply outside the municipality where sanitary sewers are connected to the sanitary sewer system of the Town of Ansted.

Wherever the Town of Ansted Sewer Department has discovered that a customer's broken or damaged service connection, roof drain, downspout, storm sewer, or other similar or like facilities conducting surface water have been connected to the Town of Ansted sanitary sewer system, and such customer has failed to take appropriate action within thirty (30) days of receipt of a demand by the Town of Ansted Sewer Department in accordance with the Rules and Regulations of the Public Service Commission of West Virginia, to eliminate such connection or defect, a surcharge will be imposed upon the customer calculated on the basis of the following formula:

STORM SEWER DRAIN AND BROKEN OR DAMAGED SERVICE
CONNECTION (Continued)

$$S = A \times R \times .0006233 \times C$$

S - The surcharge in dollars.

A - The area under roof and/or the area of any other water collection surface connected to the sanitary sewer, in square feet.

R - The measured monthly rainfall.

.0006233 - A conversion factor to change inches of rain x square feet of surface to thousands of gallons of water.

C - The Town of Ansted Sewer Department approved rate per thousand gallons of sewage treated.

The Town of Ansted Sewer Department shall not impose the surcharge unless, and until, the customer has been notified by certified mail, return receipt requested, or by hand delivery, that it has been established by smoke testing, dye testing, or on-site inspection that rain or other surface water is being introduced into the sanitary sewer system at the customer's location, and that the customer has not acted within thirty (30) days from receipt of such notice to divert the water from the sanitary sewer.

Said surcharge shall be calculated and imposed for each month that said condition continues to exist. Failure to pay the surcharge and/or correct the situation shall give rise to the possible termination of water service in accordance with the Rules and Regulations of the Public Service Commission of West Virginia.

The above rates and charges shall be applicable for any owner or occupant of each and every lot or parcel of land or building situate within or without the corporate limits of the Town of Ansted and having any connection to the sanitary sewer system of the Town of Ansted.

APPENDIX J

§ 5-G INFORMATION

Region 4 Planning and Development Council



1412
Green
File

(304) 872-4970
Fax: 872-1012

RECEIVED

June 26, 2014

JUN 27 2014

DUNN ENGINEERS, INC.

Dunn Engineers, Inc.
400 South Ruffner Road
Charleston, WV 25314

Dear Mr. Hypes:

Thank you for responding to the Town of Ansted's "Request for Proposal" seeking consultants to provide engineering planning, design and construction services for public sewer service to unserved areas in the vicinity of the Town including; Ames Heights, Chestnutburg Road, Hopewell Road, Shady Creek, and Turkey Creek areas. The Town of Ansted has selected your firm for the above mentioned project. The Town looks forward to working with you.

Please forward your contract for this project, along with the attached *Terms & Conditions* document to me at your earliest convenience.

If you have questions or need additional information, please contact Mayor Pete Hobbs at (304)658-5901.

Sincerely,

Lesley Taylor
Community Project Specialist

Enclosure

APPENDIX K

AQUA “PRIME” FILTER MANUFACTURER’S LITERATURE

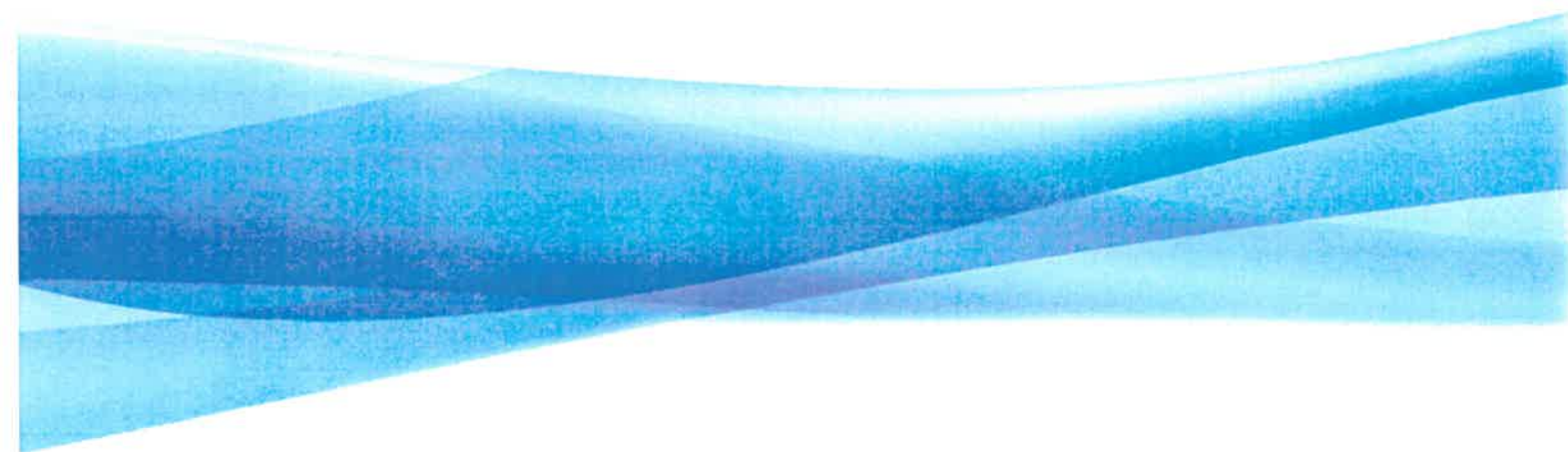


AQUA-AEROBIC SYSTEMS, INC.
A Metawater Company

AquaPrimeTM

Cloth Media Filter

A Solution for Primary Treatment and Wet Weather Applications



AquaPrime™ Cloth Media Filter

Featuring OptiFiber® Pile Cloth Media

The AquaPrime cloth media filtration system is designed as an economical and efficient solution for the treatment of primary wastewater and wet weather applications. This system utilizes a disk configuration and the exclusive OptiFiber PF-14™ pile cloth filtration media to effectively filter high solids waste streams without the use of chemicals. This system is ideal for primary wastewater treatment and wet weather applications due to its proven removal efficiencies and high quality effluent, even under varying influent conditions.

The AquaPrime system is designed to handle a wide range of flows in a fraction of space compared to conventional primary clarifiers. The system's high solids removal in comparison to conventional treatment provides energy and operational savings within the wastewater treatment plant due to reduced loads to the secondary process or more solids for anaerobic digestion (energy harvesting).

Applications

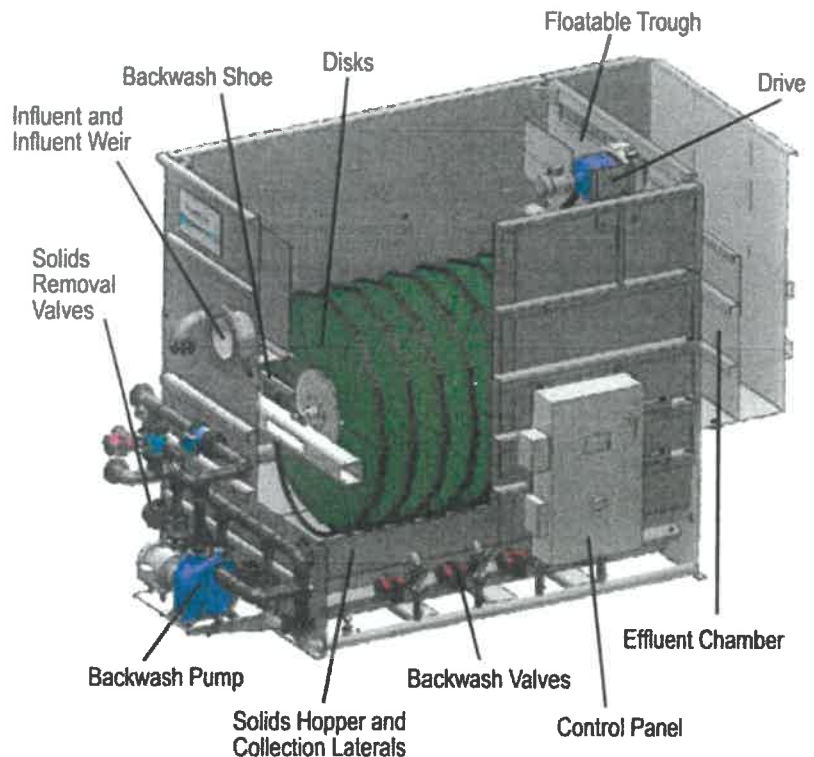
- Primary Filtration
- Primary Effluent Filtration
- Stormwater
- Sanitary Sewer Overflow (SSO)
- Combined Sewer Overflow (CSO)
- High Solids Applications (Municipal and Industrial)



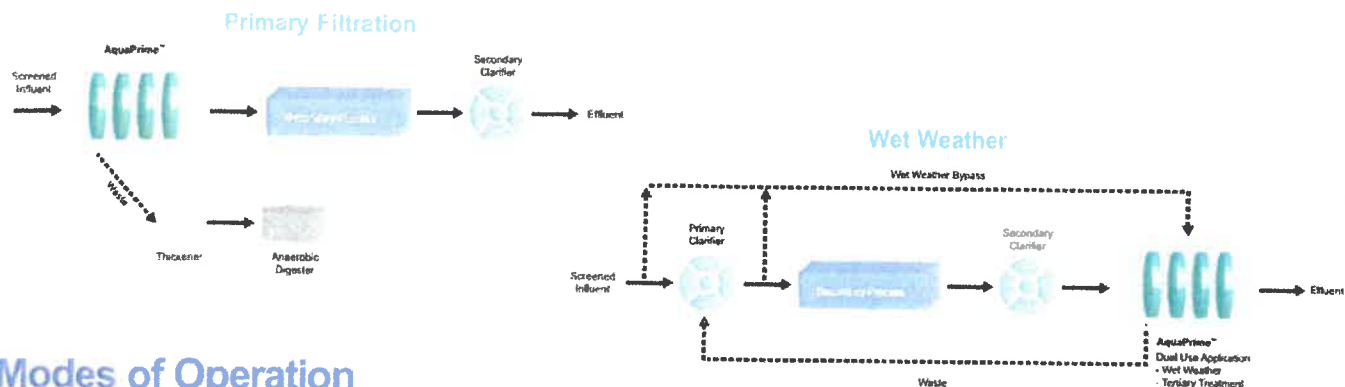
An AquaPrime™ system operating at a municipality for primary treatment.

Features and Advantages

- Vertically oriented cloth media disks reduce required footprint
- Each disk is lightweight, with removable segments for ease of maintenance
- Effective backwash system that fluidizes cloth fibers to release stored solids
- Specifically designed floatable and solids removal zones
- Available in several configurations
- Fully automatic PLC control with color touchscreen HMI
- Reduced energy costs in the secondary process due to a reduction in organic loading
- Can be configured for dual use application for tertiary and wet weather operation
- Simple start-up with unattended operation for remote locations
- More solids for increased gas production in anaerobic digesters for primary applications



Typical Locations For AquaPrime™ Treatment



Modes of Operation

The AquaPrime cloth media filtration system operates on four (4) modes of operation: FILTRATION, BACKWASH, SOLIDS WASTING and FLOATABLE WASTING. For graphical representation, the AquaPrime modes of operation are described below:



Filtration Mode:

- Influent wastewater/wet weather flow enters the filter by gravity
- Stationary cloth media disks are completely submerged
- Solids deposit on the outside of the cloth media forming a mat as filtrate flows through the media
- Tank liquid level rises as headloss builds due to the collection of solids
- Filtrate is collected in the hollow center tube and discharged over an effluent weir
- Heavier solids settle to the specifically designed hopped tank bottom



Backwash Mode:

- Solids are backwashed at a predetermined liquid level or time
- Backwash shoes directly contact the cloth media and solids are removed by vacuum pressure using a backwash pump
- Disks rotate slowly and two disks are backwashed at a time (unless a single disk is utilized)
- Filtration is not interrupted
- Backwash water is directed to waste handling facilities (thickening, digester, etc.)



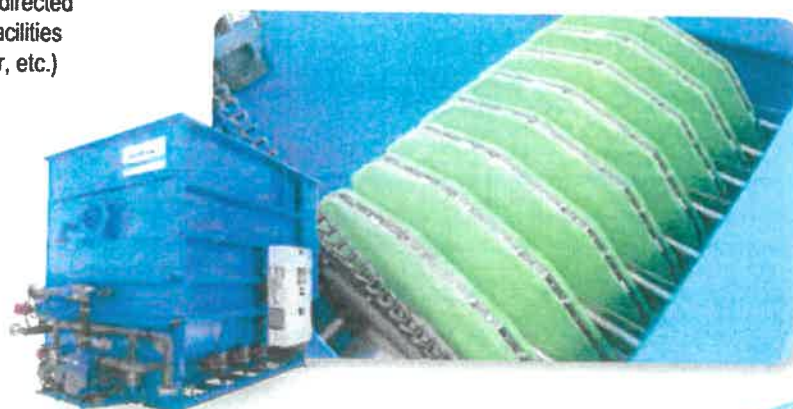
Solids Wasting Mode

- Heavier solids in the collection hopper are removed on an intermittent basis
- Backwash/Solids Pump provides suction to the solids collection manifold for wasting of settled solids
- Solids are pumped back to the waste handling facilities (thickening, digesters, etc.)



Floatable Wasting Mode

- Floatable scum is allowed to collect on the water surface
- After a preset number of backwashes, the water level is allowed to rise above the preset high level
- As the water level increases, floating scum is removed by flowing over the scum removal weir
- Scum wasting water is directed to the plant's waste handling facility



A "Green" Advantage Product
Lower Energy • Small Carbon Footprint

APPENDIX L
PUBLIC MEETING MINUTES

Town of Ansted

P.O. Box 798

Ansted, West Virginia 25812

Stephen Pridemore, Mayor

Telephone 304-658-5901

Robert T. Wilson, Recorder

FAX 304-658-4680

***Home of Hawk's Nest State Park &
Gateway to New River Gorge National Park & Preserve***

The Town of Ansted held a Public Hearing for the pursuit of sewer projects and funding for the Ansted Sewer Department on March 28, 2024, at the Ansted Council Chambers located at 104 Cemetery Street, Ansted, West Virginia. Those in attendance were Mayor Stephen Pridemore, Councilmembers Josh Cameron, Greg Brewer, Anthony Harmon, and Holly Jeffers (Robert T. Wilson, Recorder and Josh Crist, Councilman were absent). Fred Hypes and Brian Byrd of Thrasher Engineering, Clerk and Acting-Recorder Siobhan Wilson, and Chief Sewer Plant Operator Harold Columer. No citizens were present.


The meeting was called to order at 6:04 PM by Mayor Pridemore.

Fred Hypes and Brian Byrd of Thrasher Engineering addressed Council about current issues with the Ansted Sewer Department and sewer lines throughout Town. They discussed the necessary upgrades needed to the current treatment plant and sewer line issues throughout Town allowing rainwater into the system in extreme excess. Key points of their presentation were:

1. Treatment Plant upgrade to allow the plant to adequately handle a larger flow through the system.
2. Wastewater collection lines – Repair Project proposes to replace around 10,000 feet of sewer line near Logtown Road.
3. Chestnutburg Road Project – Run sewer out Chestnutburg Road to US Route 19 to add additional customers and allow proper sewer service to said customers.

Council asked many questions of the Thrasher representatives and after much discussion Councilman Greg Brewer made a motion to allow Thrasher Engineering to move forward with studies for I & I and possible Turkey Creek extension, and an extension out Chestnutburg Road. Councilman Anthony Harmon seconded the motion and it passed unanimously.

With no further business to conduct, Councilman Josh Cameron made a motion to adjourn the meeting, seconded by Councilman Greg Brewer, and the motion passed unanimously.


Stephen Pridemore, Mayor


Siobhan Wilson, Acting-Recorder

APPENDIX M

POPULATION DATA FOR 2024 (ESTIMATES / US CENSUS)

Ansted, West Virginia Population 2024

1,258

Ansted is a town located in [Fayette County West Virginia](#). Ansted has a 2024 population of 1,258. Ansted is currently declining at a rate of -1.1% annually and its population has decreased by -4.12% since the most recent census, which recorded a population of 1,312 in 2020.

The average household income in Ansted is \$60,677 with a poverty rate of 22.06%. The median age in Ansted is 39.9 years: 32.6 years for males, and 45.9 years for females.

Ansted Demographics

According to the most recent ACS, the racial composition of Ansted was:

- White: 98.9%
- Two or more races: 1.1%
- Black or African American: 0%
- Native American: 0%
- Asian: 0%
- Native Hawaiian or Pacific Islander: 0%
- Other race: 0%

State

[West Virginia](#)

County

[Fayette County](#)

Land Area (mi²)

1.6 sq mi

Density (mi²)

803.20/sq mi

Growth Since 2020

-4.12% (-54)

The current population of Ansted, West Virginia is 1,258 based on our projections of the latest US Census estimates (released May 2024). The last official US Census in 2020 recorded the population at 1,312.

SOURCE: <https://worldpopulationreview.com/us-cities/west-virginia/ansted>

APPENDIX N

COST ESTIMATES / BUDGETS

TOWN OF ANSTED
UPGRADE EXISTING WWTP (350,000 GPD)
PRELIMINARY COST ESTIMATE - OPTION 1

Thrasher Project # D10-11008.00

January 2023

DESCRIPTION	QUANTITY	UNIT PRICE	TOTAL COST
Replace Lights & Fans (Screen Room)	1 LS	\$75,000.00 /LS	\$75,000.00
Add Grit Removal & Fine Screen	1 LS	\$800,000.00 /LS	\$800,000.00
Demo Existing Grit Unit	1 LS	\$25,000.00 /LS	\$25,000.00
Re-paint & Re-roof Screen Building	1 LS	\$75,000.00 /LS	\$75,000.00
Re-paint & Re-roof Blower Building	1 LS	\$85,000.00 /LS	\$85,000.00
Replace Aeration Tank Blowers	1 LS	\$150,000.00 /LS	\$150,000.00
Replace Clarifier Flights, Chains, Drives & Weirs	2 EA	\$125,000.00 /EA	\$250,000.00
New Splitter Box	1 EA	\$100,000.00 /EA	\$100,000.00
Demo Existing Chlorine Building & Chlorine Contact Tank Interiors	2 EA	\$25,000.00 /EA	\$50,000.00
Effluent Pump Station	1 LS	\$250,000.00 /LF	\$250,000.00
Aqua Prime Filter Unit	1 LS	\$1,500,000.00 /LS	\$1,500,000.00
Construct New Clarifier	2 EA	\$175,000.00 /EA	\$350,000.00
New UV Disinfection Unit	1 LS	\$400,000.00 /LS	\$400,000.00
Construct New Outfall	1 LS	\$100,000.00 /LS	\$100,000.00
New Flow Meter	1 LS	\$45,000.00 /LS	\$45,000.00
New Lab Building	1 LS	\$250,000.00 /LS	\$250,000.00
Site Piping	1 LS	\$175,000.00 /LS	\$175,000.00
Site Grading	1 LS	\$100,000.00 /LS	\$100,000.00
Electrical System Upgrade	1 LS	\$150,000.00 /LS	\$150,000.00
Replace Digester Blowers	1 LS	\$75,000.00 /LS	\$75,000.00
Replace RAS Pumps	1 LS	\$100,000.00 /LS	\$100,000.00
Miscellaneous	1 LS	\$200,000.00 /LS	\$200,000.00
Site Restoration	1 LS	\$100,000.00 /LS	\$100,000.00
Mobilization	1 LS	\$50,000.00 /LS	\$50,000.00
Video Taping of Project Area	- LS	\$0.00 /LS	\$0.00
Construction Sub-Total			\$5,455,000.00
Construction Contingency @ ± 15%			\$818,000.00
CONSTRUCTION TOTAL			\$6,273,000.00

TOWN OF ANSTED
CONSTRUCT NEW WWTP UPSTREAM OF PUMP STATION #1
PRELIMINARY COST ESTIMATE - OPTION 2

Thrasher Project # D10-11008.00

May 2023

DESCRIPTION	QUANTITY	UNIT PRICE	TOTAL COST
Yard Piping, Existing & New (including new FM)	1 LS	\$750,000.00 LS	\$750,000.00
Site Demolition, Existing Plant	1 LS	\$250,000.00 LS	\$250,000.00
Site Work & Access Rd., Existing & New	1 LS	\$600,000.00 LS	\$600,000.00
Erosion Control	1 LS	\$25,000.00 LS	\$25,000.00
Field Office	2 EA	\$15,000.00 EA	\$30,000.00
Video Taping	1 LS	\$10,000.00 LS	\$10,000.00
Project Sign	1 EA	\$2,000.00 LS	\$2,000.00
Precast Office Building	1 EA	\$300,000.00 EA	\$300,000.00
Precast Electric Building	1 EA	\$200,000.00 EA	\$200,000.00
40 x 24 Glass Fused to Steel Tank	2 EA	\$450,000.00 EA	\$900,000.00
SBR Equipment	1 LS	\$1,250,000.00 LS	\$1,250,000.00
Abandon Existing Clarifiers	1 LS	\$100,000.00 LS	\$100,000.00
Convert Existing Aeration Basins to Digesters	1 LS	\$300,000.00 LS	\$300,000.00
Replace Existing Screen	1 LS	\$500,000.00 LS	\$500,000.00
Grit Unit Replacement, Existing & New	1 LS	\$350,000.00 LS	\$350,000.00
Electrical, Existing & New	1 LS	\$600,000.00 LS	\$600,000.00
Power to New Plant	1 LS	\$100,000.00 LS	\$100,000.00
Samplers	2 EA	\$5,000.00 EA	\$10,000.00
Emergency Generator	2 EA	\$125,000.00 EA	\$250,000.00
Site Fence	2,000 LF	\$20.00 LF	\$40,000.00
Gates	1 EA	\$1,500.00 EA	\$1,500.00
New Pump Station, Screened Influent	1 LS	\$450,000.00 LS	\$450,000.00
System Telemetry	1 LS	\$125,000.00 LS	\$125,000.00
Washwater System, New Plant	1 LS	\$100,000.00 LS	\$100,000.00
Ultraviolet Disinfection System	1 LS	\$500,000.00 LS	\$500,000.00
Post Aeration System	1 LS	\$100,000.00 LS	\$100,000.00
Ultrasonic Flow Meter w/Chart & Weir	1 LS	\$35,000.00 LS	\$35,000.00
Misc. Costs	1 LS	\$100,000.00 LS	\$100,000.00
Misc. Metals	1 LS	\$100,000.00 LS	\$100,000.00
Misc., Building Repairs, Existing Plant	1 LS	\$100,000.00 LS	\$100,000.00
Mobilization / Demobilization	1 LS	\$95,000.00 LS	\$95,000.00
Bonds & Insurance	1 LS	\$30,000.00 LS	\$30,000.00
Construction Sub-Total			\$8,303,500.00
Construction Contingency @ ± 15%			\$1,246,500.00
CONSTRUCTION TOTAL			\$9,550,000.00

TOWN OF ANSTED
WWTP (0.5 MGD ADF)

PRELIMINARY COST ESTIMATE - OPTION #3 (recommended project)

Thrasher Project # D10-11008.00

January 2023

DESCRIPTION	QUANTITY	UNIT PRICE	TOTAL COST
Demo Belt Press / Office Building	1 LS	\$50,000.00 /LS	\$50,000.00
Demo Digester / Blowers	1 LS	\$65,000.00 /LS	\$65,000.00
New Concrete SBR Basins	1 LS	\$2,500,000.00 /LS	\$2,500,000.00
SBR Equipment Installed	1 LS	\$1,500,000.00 /LS	\$1,500,000.00
New Headworks Screen / Grit Unit	1 LS	\$1,750,000.00 /LS	\$1,750,000.00
Demo Existing Screen & Building	1 LS	\$50,000.00 /LS	\$50,000.00
Demo Existing Grit Unit	1 LS	\$40,000.00 /LS	\$40,000.00
Demo Chlorine Building & Chlorine			
Contact Interiors	1 LS	\$50,000.00 /LS	\$50,000.00
Convert Treatment Basins to Digesters	1 LS	\$300,000.00 /LS	\$300,000.00
Refurbish & Repaint Existing Blower Building	1 LS	\$200,000.00 /LS	\$200,000.00
New Blowers for Converted Aeration Basins (2)	1 LS	\$250,000.00 /LS	\$250,000.00
Plant Washwater System	1 LS	\$175,000.00 /LS	\$175,000.00
UV Disinfection Unit	1 LS	\$625,000.00 /LS	\$625,000.00
New Control / Office Building	1 LS	\$430,000.00 /LS	\$430,000.00
New Belt Press Building	1 LS	\$350,000.00 /LS	\$350,000.00
New Meter Belt Press	1 LS	\$500,000.00 /LS	\$500,000.00
New Emergency Generator	1 LS	\$250,000.00 /LS	\$250,000.00
Electrical	1 LS	\$400,000.00 /LS	\$400,000.00
New Effluent Flow Meter	1 LS	\$45,000.00 /LS	\$45,000.00
Site Restoration	1 LS	\$100,000.00 /LS	\$100,000.00
New Outfall	1 LS	\$125,000.00 /LS	\$125,000.00
Site Piping	1 LS	\$250,000.00 /LS	\$250,000.00
Site Grading	1 LS	\$100,000.00 /LS	\$100,000.00
Erosion Control	1 LS	\$15,000.00 /LS	\$15,000.00
Site Sign	1 LS	\$5,000.00 /LS	\$5,000.00
Mobilization / Demobilization	1 LS	\$100,000.00 /LS	\$100,000.00
Construction Sub-Total			\$10,225,000.00
Construction Contingency @ ± 15%			\$1,534,000.00

CONSTRUCTION TOTAL

\$11,759,000.00

TOWN OF ANSTED
WWTP (0.5 MGD ADF)

PRELIMINARY COST ESTIMATE - OPTION 3 (recommended project)

Thrasher Project # D10-11008.00 - January 2023

PROJECT COST SUMMARY

Total Estimated Construction Costs		\$10,225,000.00
Study and Report Phase / Planning		\$15,000.00
Design Phase (Additional)		\$350,000.00
Final Design Phase		\$0.00
Bidding and Negotiation		\$35,000.00
Construction Phase (Engineering During Const. - 26 months)		\$400,000.00
Post-Construction Phase		\$45,000.00
Resident Project Representative (18 months)		\$360,000.00
Special Services		\$85,000.00
<i>Permitting</i>		
<i>AIS Compliance</i>	\$20,000.00	
<i>Subsurface Investigations</i>	\$15,000.00	
<i>Land Surveys and Easement Preparation</i>		
<i>Engineering Surveys and Topo</i>		
<i>Mapping</i>		
<i>Expert Witness Before Agencies</i>		
<i>Preparation of Funding Application</i>		
<i>Environmental Assessment & Impact Statement</i>		
<i>Asset Management Plan / O&M</i>	\$50,000.00	
<i>Long Term Control Plan</i>		
<i>Inflow and Infiltration Study</i>		
<i>GIS System</i>		
Legal Fees		\$45,000.00
<i>Local Project Attorney</i>	\$10,000.00	
<i>Land & ROWs Attorney</i>	\$0.00	
<i>PSC Attorney</i>	\$35,000.00	
Administration Fees		\$215,000.00
<i>Project Administrator</i>	\$130,000.00	
<i>Project Accountant</i>	\$45,000.00	
<i>Other Administrator Cost (Power to Site)</i>	\$40,000.00	
Financing		\$30,000.00
<i>Interim Financing</i>	\$0.00	
<i>Capitalized Interest</i>	\$0.00	
<i>Bond Counsel/Other Closing Costs</i>	\$30,000.00	
Permits		\$21,000.00
Land Costs		\$0.00
<i>Power to Sites</i>	\$0.00	
<i>Land Acquisition</i>	\$0.00	
<i>Obtain Right-Of-Way</i>		
<i>Right-Of-Way Coordination Assistance</i>		
<i>Easements</i>	\$0.00	
<i>Fee Takes</i>		
Total Soft Costs		\$1,601,000.00
Construction Contingency @ ±15%		\$1,534,000.00
TOTAL PROJECT COST		\$13,360,000.00

TOWN OF ANSTED
CONSOLIDATION WITH OTHER UTILITIES
PRELIMINARY COST ESTIMATE - OPTION 4

Thrasher Project # D10-11008.00

May 2023

DESCRIPTION	QUANTITY	UNIT PRICE	TOTAL COST
8" DIP Force Main	75,000 LF	\$150.00 LF	\$11,250,000.00
Pumping Station	7 EA	\$500,000.00 EA	\$3,500,000.00
Telemetry	1 LS	\$150,000.00 LS	\$150,000.00
Gate Valve	38 EA	\$2,000.00 EA	\$76,000.00
Cleanout	38 EA	\$2,500.00 EA	\$95,000.00
Air Release Valve	7 EA	\$4,000.00 EA	\$28,000.00
Bioxide Station	3 EA	\$50,000.00 EA	\$150,000.00
Aeration Station	2 EA	\$100,000.00 EA	\$200,000.00
Mobilization	1 LS	\$100,000.00 LS	\$100,000.00
Video Taping of Project Area	1 LS	\$20,000.00 LS	\$20,000.00
Construction Sub-Total			\$15,569,000.00
Construction Contingency @ $\pm 15\%$			\$2,335,350.00
CONSTRUCTION TOTAL			\$17,900,000.00

APPENDIX O

FY 2024 PSC ANNUAL REPORT [SELECT PAGES]

WASTEWATER UTILITIES

(Class A & B)

ANNUAL REPORT For Year Ended 2024 For

NAME OF UTILITY: TOWN OF ANSTED

PHYSICAL ADDRESS: 30 RICH CREEK ROAD, ANSTED, WV 25812

MAILING ADDRESS: P.O. BOX 798, ANSTED, WV 25812

NAME OF MAYOR/ CHAIRPERSON/ PRESIDENT: STEPHEN PRIDEMORE - MAYOR

PHYSICAL ADDRESS: 30 RICH CREEK ROAD, ANSTED, WV 25812

E-MAIL ADDRESS: ansted.mayor@gmail.com

UTILITY CONTACT PERSON: LORI OSBORNE

TELEPHONE NO: (304) 658-5106

E-MAIL ADDRESS: Losborne@townofansted.com

ACCOUNTING CONTACT PERSON: LOWE & ASSOCIATES, PLLC

ACCOUNTANT'S MAILING ADDRESS: 1156 SOUTH MAIN STREET, MILTON, WV 25541

TELEPHONE NO: (304) 743-5573

E-MAIL ADDRESS: JGILLESPIE@LOWECPAS.COM

TO THE PUBLIC SERVICE COMMISSION OF WEST VIRGINIA

FOR THE YEAR ENDED: 06/30/2024

Utility Class: B

Revision Date:

Audit Report Filed Date:

Utility Description Information

All data entered is for the Annual Report period.

Those cells that are not shaded require the utility to enter data .All others will be automatically filled in.

General Information

Name TOWN OF ANSTED

Address 30 RICH CREEK ROAD, ANSTED, WV 25812

Areas Served County or counties : Fayette

Phone number (304) 658-5106

Fax number (304) 658-4680

Total number of full time employees:

Full Time Employees:

Contract Employees:

Field: 2.00 -

Customer Billing: - -

Administrative & General 1.00 -

Gross Annual Revenues

Gross Plant in Service

No. of Active customers

542,139 7,270,272 662

of Wastewater Systems

NPDES Permit Number(s)

Wastewater Systems: 1 WV0020672

Number of : 1. Treatment Plants

2. Pumping Stations

3. Grinder Pumping Stations

1 8 0

Total treatment capacity in MGD's**

**Million Gallons per Day

1

Number of: 1.Vacuum stations

2. Miles of Gravity Collection Mains

3. Miles of Force Collection Mains

0 12.56 1.8

Number of permitted combined system overflows (CSO)

0

Utility Description

IDENTITY OF RESPONDENT

Type of Utility:

Public: X

Association or Authority:

Private:

1. Exact name of Respondent(Utility Name)
Town of Ansted Sewer Fund

2. If name of respondent was changed during the year, give particulars of change and date change became effective
N/A

3. Address of principal business office at end of year
30 Rich Creek Road
Ansted, WV 25812

4. Names and titles of officer having custody of the general corporate books of account and address of where the general corporate books are kept.
Patricia Breeden
Recorder
30 Rich Creek Road
Ansted, WV 25812

5. Name of State under the laws of which respondent is incorporated and date of incorporation.
N/A

6. If respondent is not incorporated, give the type of organization and date organized.
Public Utility

7. If at any time during the year the property of respondent was held by a receiver or trustee, give (a) name of receiver or trustee, (b) date such receiver or trustee took possession, (c), the authority by which the receivership or trusteeship was created, and (d) date when possession by receiver or trustee ceased.
N/A

8. State the classes of utility and other services furnished by the respondent during the year in each state in which the respondent operated
Wastewater - Class "B"

TOWN OF ANSTED											01/00/1900	06/30/2024
LONG-TERM DEBT (Account 221)												
Bonds												
1. Report below the particulars indicated of the long-term debt at end of year represented by unmatured obligations issued or assumed by the respondent, exclusive of advances from associated companies.												
2. Group amounts according to accounts and show the total for each account.												
3. If the respondent has pledged any of its long-term debt securities give particulars in a footnote (on schedule 801A-801B), including name of the pledgee and purpose of the pledge.												
Notes:												
Acct 427- See Schedule 306.												
Administrative Fees should be included in Acct. 775.8, Schedule 605.												
Acct 239-240 See Schedule 216.												
Example: Debt Holder: "WDA", Class: "WDA 1999", Series: "A"												
Line No.	Debt Holder, Class, Series (a)	Nominal Date of Issue (b)	Date of Maturity (c)	Outstanding per Balance Sheet (d)	Rate (%) (e)	Interest for Year- Acct. 427.3 (\$ (f)	Matured P. & I. Acct-239 & 240 (\$ (g)	Principal for Year (\$ (h)	Reserve Requirements (\$ (i)	Total Funding Required (F + H + I) (j)		
1	Bonds (221)											
2	WV SRF - 2000	12/11/2000	2030	130,622	0.00%	-	19,356	19,352	-	19,352		
3	WV SRF - 2022A	02/08/2022	2051	3,055,946	0.75%	20,048	120,858	90,052	12,342	122,442		
4												
5												
6												
7												
8												
9												
10												
11												
12												
13												
14												
15												
16												
17												
18												
19												
20												
Total Account 221				3,186,568		20,048	140,214	109,404	12,342	141,794		

212

OPERATING REVENUES (Account 400)

1. Report below the amount of operating revenue for the year for each prescribed account and the amount from the preceding year
2. List the gallons sold for the current year and preceding year.
3. Number of customers should be reported on the basis of number of meters, plus number of flat rate accounts, except that where separate meter readings are added for billing purposes, one customer shall be counted for each group of meters so added. The average number of customers means the average of the figures at the close of each month or each billing period.
4. Where charges are not dependent on metered water consumption, flat rate revenue accounts apply.

Line No.	Amount (a)	Operating Revenues		Gallons (000 omitted)		Average Number of Customers	
		Amount for Year (b)	Amount from Last Year (c)	Of Water on which Billings Are Based for this Year (d)	Of Water on which Billing Are Based for Previous Year (e)	Number for Year (f)	Number from Last Year (g)
1	SALES OF WASTEWATER						
2	521. Flat Rate Revenues						
3	521.1 Residential Revenues						
4	521.2 Commercial Revenues						
5	521.3 Industrial Revenues						
6	521.4 Revenues From Public Authorities						
7	521.5 Multiple Family Dwellings						
8	521.6 Other Revenues						
9	Total Flat Rate Revenues	-	-	-	-	-	-
10	522. Measured Revenues						
11	522.1 Residential Revenue	524,492	443,944	22,900	21,649	662	657
12	522.2 Commercial Revenues						
13	522.3 Industrial Revenues						
14	522.4 Revenues From Public Authorities						
15	522.5 Multiple Family Dwelling Revenues						
16	Total Measured Revenues	524,492	443,944	22,900	21,649	662	657
17	523. Revenues From Public Authorities						
18	524. Revenues From Other Systems	-	-	-	-		
19	525. Interdepartmental Revenues	-	-				
20	Total Sales of Wastewater	524,492	443,944	22,900	21,649	662	657
21	OTHER OPERATING REVENUES						
22	530. Guaranteed Revenues	-	-				
23	531. Sale of Sludge	-	-				
24	532. Forfeited Discounts	17,647	13,102				
25	534. Rents From Wastewater Property	-	-				
26	535. Interdepartmental Rents	-	-				
27	536. Other Wastewater Revenues	-	7				
28	Total Other Operating Revenues	17,647	13,109				
29	Total Wastewater Operating Revenues	542,139	457,053				
							600

SALES OF WASTEWATER TO GENERAL CUSTOMERS - BY MONTHS (Accounts 521-522)

Line No.	Month (or Other Billing Period) (a)	Account 521 - Flat Rate			Account 522 - Measured		
		Revenue (b)	Estimated Gallons Sold (000 Omitted) (c)	Number of Customers (d)	Revenue (e)	Gallons Sold (000 Omitted) (f)	Number of Customers (g)
1	July 2023				40,285	1,801	657
2	August 2023				39,973	1,843	664
3	September 2023				39,443	1,813	666
4	October 2023				45,405	1,781	660
5	November 2023				39,169	1,643	667
6	December 2023				49,449	2,275	660
7	January 2024				38,614	1,703	663
8	February 2024				43,728	1,787	661
9	March 2024				44,738	1,855	660
10	April 2024				49,464	2,285	666
11	May 2024				43,259	1,887	661
12	June 2024				50,965	2,228	662
13	Adjustments made for the year						
14	Total	-	-	-	524,492	22,900	662

BILLING ACCURACY

1	Average number of customers during the reporting period.	662
2	Billing Cycle (monthly, quarterly, semiannually) during the reporting period. E.g. Monthly: enter 12, Quarterly enter 4, Semiannual: enter 2	12
3	Total Number of Bills Generated during the reporting period.	7,947
4	Number of errors - driven billing adjustments during reporting period (# of bills adjusted)	

Notes on Billing System:

COMMUNITIES SERVED

Line No.	Names of Cities, Towns, and Unincorporated Communities (a)	No. of Customers End of Year (b)	Population Served (c)	Gallons Sold (000 Omitted) (d)	Total Sales (e)
1	Town of Ansted	662		22,900	524,492
2					
3					
4					
5					
6					
7					
8					
7					

WASTEWATER OPERATION AND MAINTENANCE EXPENSES

Line No.	Account (a)	Schedule Page No. (b)	Amount for Year (c)	Amount from Preceding Year (d)
1	COLLECTION EXPENSES			
2	Operation			
3	701.1 Salaries and Wages - Employees	606A	-	-
4	703.1 Salaries and Wages - Officers, Directors and Majority Stockholders	606C	-	-
5	704.1 Employee Pensions and Benefits	607	-	-
6	715.1 Purchased Power	607B	-	-
7	716.1 Fuel for Power Productions	607B	-	-
8	718.1 Chemicals	607B	-	-
9	720.1 Materials and Supplies	607B	-	-
10	731.1-736.1 Contractual Services	608-608E	-	-
11	741.1 Rental of Building/Real Property	607	-	-
12	742.1 Rental of Equipment	607	-	-
13	750.1 Transportation Expenses	607	-	-
14	756.1-759.1 Insurance	607A	-	-
15	767.1 Regulatory Commission Expense - Other	605	-	-
16	775.1 Miscellaneous Expenses	605	-	-
17	Total Operation		-	-
18	Maintenance			
19	701.2 Salaries and Wages - Employees	606A	-	-
20	703.2 Salaries and Wages - Officers, Directors and Majority Stockholders	606C	-	-
21	704.2 Employee Pensions and Benefits	607	-	-
22	718.2 Chemicals	607B	-	-
23	720.2 Materials and Supplies	607B	-	-
24	731.2-736.2 Contractual Services	608 - 608E	-	-
25	741.2 Rental of Building/Real Property	607	-	-
26	742.2 Rental of Equipment	607	-	-
27	750.2 Transportation Expenses	607	-	-
28	756.2-759.2 Insurance	607A	-	-
29	767.2 Regulatory Commission Expense - Other	605	-	-
30	775.2 Miscellaneous Expense	605	-	-
31	Total Maintenance		-	-
32				
33	Total Collection Expenses		-	-
34	PUMPING EXPENSES			
35	Operation			
36	701.3 Salaries and Wages - Employees	606A	85,101	84,135
37	703.3 Salaries and Wages - Officers, Directors and Majority Stockholders	606C	-	-
38	704.3 Employee Pensions and Benefits	607	-	-
39	715.3 Purchased Power	607B	-	-
40	716.3 Fuel for Power Production	607B	-	-
41	718.3 Chemicals	607B	-	-
42	720.3 Materials and Supplies	607B	17,962	16,528
43	731.3-736.3 Contractual Services	608 - 608E	-	-
44	741.3 Rental of Building/Real Property	607	-	-
45	742.3 Rental of Equipment	607	-	-
46	750.3 Transportation Expenses	607	-	-
47	756.3-759.3 Insurance	607A	-	-
48	767.3 Regulatory Commission Expense - Other	605	-	-
49	775.3 Miscellaneous Expenses	605	-	-
50	Total Operation		103,063	100,663
51	Maintenance			
52	701.4 Salaries and Wages - Employees	606A	-	-
53	703.4 Salaries and Wages - Officers, Directors and Majority Stockholders	606C	-	-
54	704.4 Employee Pensions and Benefits	607	-	-
55	718.4 Chemicals	607B	-	-
56	720.4 Materials and Supplies	607B	-	-
57	731.4-736.4 Contractual Services	608 - 608E	-	-
58	741.4 Rental of Building/Real Property	607	-	-
59	742.4 Rental of Equipment	607	-	-
60	750.4 Transportation Expenses	607	-	-
61	756.4-759.4 Insurance	607A	-	-
62	767.4 Regulatory Commission Expense - Other	605	-	-
63	775.4 Miscellaneous Expenses	605	-	-
64	Total Maintenance		-	-
65	Total Pumping Expenses		103,063	100,663

TOWN OF ANSTED		01/00/1900	06/30/2024	
WASTEWATER OPERATION AND MAINTENANCE EXPENSES (Continued)				
Line No.	Account (a)	Schedule Page No. (b)	Amount for the Year (c)	Amount from Preceding Year (d)
1	TREATMENT AND DISPOSAL EXPENSES			
2	Operation			
3	701.5 Salaries and Wages - Employees	606A	-	-
4	703.5 Salaries and Wages - Officers, Directors and Majority Stockholders	606C	-	-
5	704.5 Employee Pensions and Benefits	607	-	-
6	710.5 Purchased Wastewater Treatment	604	-	-
7	711.5 Sludge Removal Expense	607B	-	-
8	715.5 Purchased Power	607B	42,542	39,444
9	716.5 Fuel for Power Production	607B	-	-
10	718.5 Chemicals	607B	-	-
11	720.5 Materials and Supplies	607B	17,232	27,497
12	731.5-736.5 Contractual Services	608 - 608E	-	-
13	741.5 Rental of Building/Real Property	607	-	-
14	742.5 Rental of Equipment	607	-	-
15	750.5 Transportation Expenses	607	990	1,817
16	756.5-759.5 Insurance	607A	-	-
17	767.5 Regulatory Commission Expense - Other	605	-	-
18	775.5 Miscellaneous Expenses	605	-	-
19	Total Operation		60,764	68,758
20	Maintenance			
21	701.6 Salaries and Wages - Employees	606A	-	-
22	703.6 Salaries and Wages - Officers, Directors and Majority Stockholders	606C	-	-
23	704.6 Employee Pensions and Benefits	607	-	-
24	711.6 Sludge Removal Expense	607B	-	-
25	718.6 Chemicals	607B	-	-
26	720.6 Materials and Supplies	607B	-	-
27	731.6-736.6 Contractual Services	608 - 608E	-	-
28	741.6 Rental of Building/Real Property	607	-	-
29	742.6 Rental of Equipment	607	-	-
30	750.6 Transportation Expenses	607	-	-
31	756.6-759.6 Insurance	607A	-	-
32	767.6 Regulatory Commission Expense - Other	605	-	-
33	775.6 Miscellaneous Expenses	605	-	-
34	Total Maintenance		-	-
35	Total Treatment and Disposal Expenses		60,764	68,758
36	CUSTOMER ACCOUNTS EXPENSES			
37	701.7 Salaries and Wages - Employees	606A	32,963	28,771
38	703.7 Salaries and Wages - Officers, Directors and Majority Stockholders	606C	-	-
39	704.7 Employee Pensions and Benefits	607	-	-
40	715.7 Purchased Power	607B	-	-
41	716.7 Fuel for Power Production	607B	-	-
42	720.7 Materials and Supplies	607B	-	-
43	731.7-736.7 Contractual Services	608 - 608E	-	-
44	741.7 Rental of Building/Real Property	607	-	-
45	742.7 Rental of Equipment	607	-	-
46	750.7 Transportation Expenses	607	-	-
47	756.7-759.7 Insurance	607A	-	-
48	767.7 Regulatory Commission Expense - Other	605	-	-
49	770.7 Bad Debt Expense	607	-	10,304
50	775.7 Miscellaneous Expense	605	-	-
51	Total Customer Accounts Expenses		32,963	39,075
52	ADMINISTRATIVE AND GENERAL EXPENSES			
53	701.8 Salaries and Wages - Employees	606A	-	-
54	703.8 Salaries and Wages - Officers, Directors and Majority Stockholders	606C	-	-
55	704.8 Employee Pensions and Benefits	607	15,932	15,118
56	715.8 Purchased Power	607B	-	-
57	716.8 Fuel for Power Production	607B	-	-
58	720.8 Materials and Supplies	607B	13,508	15,837
59	731.8-736.8 Contractual Services	608 - 608E	-	-
60	741.8 Rental of Building/Real Property	607	-	-
61	742.8 Rental of Equipment	607	-	-
62	750.8 Transportation Expenses	607	-	-
63	756.8-759.8 Insurance	607A	8,840	4,927
64	760.8 Advertising Expense	607	-	-
65	766.8 Regulatory Commission Expenses - Amortization of Rate Case Expense	605	-	-
66	767.8 Regulatory Commission Expenses - Other	605	-	-
67	775.8 Miscellaneous Expenses	605	8,731	1,563
68	Total Administrative and General Expenses		47,011	37,445
69	TOTAL OPERATING EXPENSES		243,801	245,941
603B				

IMPORTANT PHYSICAL CHANGES DURING THE YEAR

Every item must be fully answered and if there have been no changes, that fact should be stated.

1. Important pumping station equipment installed.
N/A

2. Important pumping station equipment retired.
N/A

3. Other important improvements.
N/A

4. All other important physical changes.
N/A

NOTES TO POWER, PUMPING AND PURCHASED WATER STATISTICS

PUMPING STATION EQUIPMENT

Use separate columns for each pump associated power equipment. Use insert sheets if necessary. For pumps, use only those lines applicable to the unit.

PARTICULARS (a)		(b)	(c)	(d)	(e)
PUMPING EQUIPMENT					
1					
2	Identification number or description of pump station	No. 5 A & B	No. 6 A & B	No. 7 A & B	No. 8 A & B
3	Identification number, description, etc. of each pump	120178-120179	120798-120799	120176-120177	120700-120701
4	Type (displacement, centrifugal, air lift, ejector, etc.)	Centrifugal	Centrifugal	Centrifugal	Centrifugal
5	Purpose of pump (collection, plant, etc.)	Collection	Collection	Collection	Collection
6	Manufacturer	Flygt	Flygt	Flygt	Flygt
7	Rated capacity - gallons per minute	150	150	110	170
8	Discharge head - in feet	74	50	77	61
9	Revolutions or strokes per minute	1745	1745	1745	1745
10	Type station (dry well, wet well, other)	Wet Well	Wet Well	Wet Well	Wet Well
11	Wet well dimensions (depth and length x width x diameter)	6.0	6.0	6.0	6.0
12	Number of hours operated during year	25284-3507	1303-1331	3409-4472	9801-9492
POWER EQUIPMENT					
13					
14	Motive power for pump (steam, internal comb. engine, electric motor, or water turbine)				
15	Type	N/A	N/A	N/A	N/A
16	Rated horsepower				
17	Manufacturer				
18	Electric generators or Emergency pumping units:				
19	Identification number or description	N/A	N/A	N/A	N/A
20	Manufacturer				
21	Motive power (steam, internal comb. engine, hydraulic)				
22	Rated capacity in Kilowatt or KVA				
23	Rated capacity in GPM				
24	Air compressors:				
25	Identification number or description	N/A	N/A	N/A	N/A
26	Manufacturer				
27	Bore and stroke or rated delivery (CFM)				
28	Submergence of air lift in feet, static				
29	Miscellaneous:				
30	Odor control equipment (yes / no)				
31	Emergency pumping connection (yes / no)				
32	Wet well aeration (yes / no)				
33	Other (yes / no)				
34					
		700B			

WASTEWATER MAINS

Report collection, transmission, and force mains under separate captions and report number of feet at end of year for each wastewater system .

Size and Kind of Pipe (a)		Beginning (b)	Ending (c)
1	4-4" Ply x 4" Ply	6,234	6,234
2	2 - 6" Ply x 10" Ply	2,086	2,086
3	10 - 8" Sewer Pipe 14ft Each	55,928	55,928
4	9 - 6" Sewer Pipe 14ft Each	2,093	2,093
5			
6			
7			
8			
9			
10			
11			
12			
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42			
43			
44			
45		66,341	66,341

TOWN OF ANSTED		01/00/1900		06/30/2024	
PUMPING AND PURCHASED WASTEWATER TREATMENT STATISTICS					
Omit 000's in reporting gallons of wastewater.					
Line No.	Particulars (a)	Gallons of Purchased Waste-Water Treatment (b)	Gallons of Wastewater Treated Per Month Treatment Plant (c)	Total all Methods (e)	
1	July 2023		11,272	11,272	
2	August 2023		8,382	8,382	
3	September 2023		10,599	10,599	
4	October 2023		7,583	7,583	
5	November 2023		8,896	8,896	
6	December 2023		12,114	12,114	
7	January 2024		16,315	16,315	
8	February 2024		15,649	15,649	
9	March 2024		14,711	14,711	
10	April 2024		14,149	14,149	
11	May 2024		8,998	8,998	
12	June 2024		8,318	8,318	
13	Total for year	-	136,986	136,986	
14					
15	Total Gallons Treated				136,986
16	Less Gallons Billed (From page 600)	22,900			
17	Inflow and Infiltration				83.28%
18	Maximum gallons treated at the plant in any one day	1.09	Date:	1/10/24	
19	Minimum gallons treated at the plant in any one day	0.14	Date:	11/17/23	
20	Average gallons treated per day	375	(Line22 / 365)		
21	If wastewater treatment sold to other wastewater utilities, list names of such utilities below:				
22					
23					
24					
25					
26					
27					
28					
29					
30					
31					
32					
33	State what action has been taken to reduce Inflow & Infiltration:				
34	The Town is continuing to search for, and correct, I&I whenever possible. The Town is working with their engineers				
35	regarding projects to correct potential I&I.				
36					
37					
38					
39					
40					
41					
42					
43					
44					
45					
46					

**MAIN BLOCKAGES, TREATMENT RATE, SYSTEM INTEGRITY, CUSTOMER SATISFACTION,
OVERFLOW RATE, AND MAINTENANCE RATIO**

1	Main Blockages (Wastewater)		1
			2
a	Wastewater Main Blockages	2.00	3
b	Main Blockages Repaired	2.00	4
			5
2	For Privates Only!		6
	Rate of Return : Authorized (from last Rate Study)		7
			8
3	Planned Maintenance Ratio: Wastewater (Hours)		9
	<i>Description:</i>		10
	This indicator is a measure of the investment in planned maintenance.		11
			12
a	Planned maintenance hours	0.00	13
b	Corrective maintenance hours	0.00	14
			15
c	Planned budgeted maintenance cost	0.00	16
d	Corrective(experienced) maintenance cost	17,232.00	17
			18
4	Sewer Overflow Rate		19
a	Total number of dry weather wastewater overflows	1.00	20
b	Total number of wet weather wastewater overflows	14.00	21
c	Number of Wastewater Overflow Points	15.00	22
			23
5	Wastewater System Collection System Integrity Rate		24
a	Total number of collection system failures	0.00	25
b	Total miles of wastewater collection main	11.83	26
			27
6	Wastewater Treatment Effectiveness Rate		28
			29
a	Number of standard non compliance months	6.00	30
b	Number of months in reporting period	12.00	31
			32
			33
7	Customer Service		34
	Customer satisfaction (surveys/focus groups, etc.)		35
			36
	Please indicate all efforts at determining customer satisfaction during the reporting period including, but not limited to, surveys, focus groups, customer meetings, and the results of those efforts.		37
			38
			39
			40

03:39 PM OCT 23 2024 EXEC SEC DIV

SEWER VERIFICATION

The foregoing report must be verified by the oath of the officer, or person duly designated having control of the books and records of account of the utility. The oath required may be taken before any person authorized to administer an oath by the laws of the State in which same is taken.

OATH

State of West Virginia)
) SS:
County of Fayette)

Stephen Pridemore makes oath and says that

he/she is Mayor
(insert here the official title of the affiant)

of Town of Ansted
(Insert here the exact legal title or name of the utility)

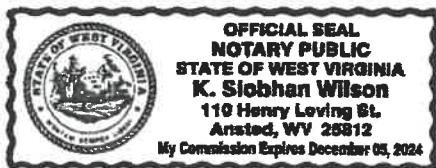
that he/she has examined the foregoing report; that to the best of his/her knowledge, information, and belief, all statements of fact contained in said report are true and that said report is a correct statement of the business and affairs of the above named utility in respect to each and every matter set forth therein during the period from and including—

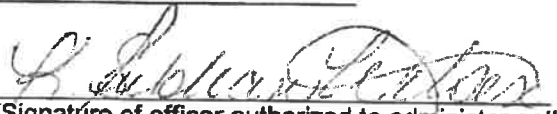
July 1, 2023 to and including June 30, 2024


(Signature of Affiant)

Subscribed and sworn to before me, a notary in and for
the State and County above named, this 23rd day of October, 2024

My commission expires December 05, 2024




(Signature of officer authorized to administer oaths)

APPENDIX P

WV IJDC FUNDING RECOMMENDATION LETTER – 08-04-2023



WEST VIRGINIA

Infrastructure & Jobs Development Council

August 04, 2023

Kalispel Holcomb
ANSTED, TOWN OF
P O Box 798
Ansted, WV 25812-0798

Re: ANSTED, TOWN OF
Sewer Plant Upgrade Project No. 2023S-2375
Preliminary Application Approved

Dear Kalispel Holcomb:

The West Virginia Infrastructure and Jobs Development Council (Council) has reviewed the preliminary application for the above-referenced project (Project).

Based on the findings of the Sewer Technical Review and Funding Committee, the Council has determined that the Project is technically feasible within the guidelines of the Infrastructure and Jobs Development Act. The Sponsor should carefully review the comments of the Technical Review Committee, as found on the Project Team Members' Dashboards at www.wvinfrastructure.com, as the Sponsor may need to address certain issues raised in said comments as it proceeds with the Project.

Additionally, the Council recommends the ANSTED, TOWN OF pursue the following funding:

Below is the recommended grant information for this Project:

Congressionally Directed - \$4,400,000.00 - Committed

CDS Match - \$1,207,000.00 - Committed

CWSRF Principal Forgiveness - \$2,000,000.00 - Recommended

WDA Economic Enhancement Grant Fund - \$4,753,000.00 - Recommended

IJDC Grant - \$1,000,000.00 - Recommended

Total estimated project cost is \$13,360,000.00. If you have any questions regarding this matter, please contact Wayne Morgan, Executive Director, at (304) 414-6501 (X106).

Sincerely,



Wayne Morgan
Executive Director

cc: Marie Prezioso, WDA
Kathy Emery, CWSRF

A. COST OF PROJECT	Total	CDS	WV Non-Fed State Match	IJDC Grant	CWSRF PF	WDA EEGF
1 Construction						
Construction	10,225,000.00	3,143,200.00	892,800.00	466,000.00	970,000.00	4,753,000.00
2 Construction Contingency	1,534,000.00	0.00	0.00	504,000.00	1,030,000.00	0.00
3 Engineering						
a. Study & Report	15,000.00	12,000.00	3,000.00	0.00	0.00	0.00
b. Preliminary Design	350,000.00	280,000.00	70,000.00	0.00	0.00	0.00
c. Final Design	0.00	0.00	0.00	0.00	0.00	0.00
d. Bidding	35,000.00	28,000.00	7,000.00	0.00	0.00	0.00
e. Construction Phase	400,000.00	320,000.00	80,000.00	0.00	0.00	0.00
f. Resident Project Representative	360,000.00	288,000.00	72,000.00	0.00	0.00	0.00
g. Post Construction	45,000.00	36,000.00	9,000.00	0.00	0.00	0.00
h. Special Services	85,000.00	68,000.00	17,000.00	0.00	0.00	0.00
4 Legal						
a Local Project Attorney	10,000.00	8,000.00	2,000.00	0.00	0.00	0.00
b PSC Attorney	35,000.00	28,000.00	7,000.00	0.00	0.00	0.00
5 Administration (Region 4)	130,000.00	104,000.00	26,000.00	0.00	0.00	0.00
6 Accountant (Griffith)	45,000.00	36,000.00	9,000.00	0.00	0.00	0.00
7 Miscellaneous (Power to Site)	40,000.00	32,000.00	8,000.00	0.00	0.00	0.00
8 Permits	21,000.00	16,800.00	4,200.00	0.00	0.00	0.00
9 Project Contingency	0.00	0.00	0.00	0.00	0.00	0.00
11 Sub Total Cost of Financing	13,330,000.00	4,400,000.00	1,207,000.00	970,000.00	2,000,000.00	4,753,000.00
B. Cost of Financing						
12 Capitalized Interest	0.00	0.00	0.00	0.00	0.00	0.00
13 Reserve	0.00	0.00	0.00	0.00	0.00	0.00
14 Registrar Fees	0.00	0.00	0.00	0.00	0.00	0.00
15 Bond Counsel	30,000.00	0.00	0.00	30,000.00	0.00	0.00
16 Sub Total Cost of Financing	30,000.00	0.00	0.00	30,000.00	0.00	0.00
17 Total Cost of Project	13,360,000.00	4,400,000.00	1,207,000.00	1,000,000.00	2,000,000.00	4,753,000.00

Town of Ansted

The Thrasher Group

A. COST OF PROJECT	Total	CDS	WV Non-Fed State Match	IJDC Grant	CWSRF PF	WDA EEGF
1 Construction						
Construction	10,225,000.00	3,143,200.00	892,800.00	466,000.00	970,000.00	4,753,000.00
2 Construction Contingency	1,534,000.00	0.00	0.00	504,000.00	1,030,000.00	0.00
3 Engineering						
a. Study & Report	15,000.00	12,000.00	3,000.00	0.00	0.00	0.00
b. Preliminary Design	350,000.00	280,000.00	70,000.00	0.00	0.00	0.00
c. Final Design	0.00	0.00	0.00	0.00	0.00	0.00
d. Bidding	35,000.00	28,000.00	7,000.00	0.00	0.00	0.00
e. Construction Phase	400,000.00	320,000.00	80,000.00	0.00	0.00	0.00
f. Resident Project Representative	360,000.00	288,000.00	72,000.00	0.00	0.00	0.00
g. Post Construction	45,000.00	36,000.00	9,000.00	0.00	0.00	0.00
h. Special Services	85,000.00	68,000.00	17,000.00	0.00	0.00	0.00
4 Legal						
a Local Project Attorney	10,000.00	8,000.00	2,000.00	0.00	0.00	0.00
b PSC Attorney	35,000.00	28,000.00	7,000.00	0.00	0.00	0.00
5 Administration (Region 4)	130,000.00	104,000.00	26,000.00	0.00	0.00	0.00
6 Accountant (Griffith)	45,000.00	36,000.00	9,000.00	0.00	0.00	0.00
7 Miscellaneous (Power to Site)	40,000.00	32,000.00	8,000.00	0.00	0.00	0.00
8 Permits	21,000.00	16,800.00	4,200.00	0.00	0.00	0.00
9 Project Contingency	0.00	0.00	0.00	0.00	0.00	0.00
11 Sub Total Cost of Financing	13,330,000.00	4,400,000.00	1,207,000.00	970,000.00	2,000,000.00	4,753,000.00
B. Cost of Financing						
12 Capitalized Interest	0.00	0.00	0.00	0.00	0.00	0.00
13 Reserve	0.00	0.00	0.00	0.00	0.00	0.00
14 Registrar Fees	0.00	0.00	0.00	0.00	0.00	0.00
15 Bond Counsel	30,000.00	0.00	0.00	30,000.00	0.00	0.00
16 Sub Total Cost of Financing	30,000.00	0.00	0.00	30,000.00	0.00	0.00
17 Total Cost of Project	13,360,000.00	4,400,000.00	1,207,000.00	1,000,000.00	2,000,000.00	4,753,000.00

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