

December 27, 2017

Allen Rather
Department of Environment and Conservation
Division of Water Resources
312 Rosa L. Parks Ave, 11th Floor
Nashville, Tennessee 37243

TN DEPT. OF ENV. & CONSERVATION

DEC 29 2017

DIVISION OF WATER RESOURCES

Dear Allen:

Please find enclosed one check in the amount of \$10,150 for review of the following SOP Renewal Applications:

SOP #	Site	Flow (GPM)	Check Amount
05067	Rivers Edge II - TWS	3,750	\$500
02049	The Highlands Chalet Resort - TWS	3,600	\$500
07057	Mountain Folks Community - TWS	6,900	\$500
01048	Horseshoe Bend Condos - TWS	7,000	\$500
07055	Greenbriar Subdivision - TWS	15,300	\$500
05030	Fanning Bend - TWS	75,000	\$1,000
98050	Windsor Pointe - TWS	25,000	\$750
98041	Lewis Gardens - TWS	55,000	\$1,000
01028	Maple Green Reclamation Facility - TWS	90,000	\$1,150
02020	Cedar Hill Baptist Church - TWS	1,500	\$500
02021	McLemore Farms - TWS	15,000	\$500
05033	Smoky Village Subdivision - TWS	5,600	\$500
00019	Starr Crest Resort - TWS	8,000	\$500
05030	Fanning Bend Treatment Facility - TWS	75,000	\$1,000
07059	Clarkrange Treatment Facility - TWS	42,600	\$750

If you have any questions, please contact me at this office.

Sincerely,



David Foster
Adenus Solutions Group

Took check # 7624 to Shelia

Tennessee Wastewater Systems, Inc.

851 Aviation Parkway
Smyrna, TN 37167
615-220-7200

PINNACLE NATIONAL BANK
NASHVILLE, TN
87-863/640

7624

12/27/2017

PAY TO THE ORDER OF Treasurer, State of Tennessee

\$ **10,150.00

Ten Thousand One Hundred Fifty and 00/100***** DOLLARS

PROTECTED AGAINST FRAUD



TN Dept of Environment & Conservation
William R. Snodgrass TN tower
312 Rosa L. Parks Avenue, 11th Floor
Nashville, TN 37243-1102



SOP Renewal Applications (see details)



Tennessee Wastewater Systems, Inc.

7624

Treasurer, State of Tennessee

12/27/2017

401 · Operating Expenses:775 · Miscella	SOP - 05067 - River's Edge II	500.00
401 · Operating Expenses:775 · Miscella	SOP - 02049 - The Highlands Chalet Resort	500.00
401 · Operating Expenses:775 · Miscella	SOP - 07057 - Mountain Folks Community	500.00
401 · Operating Expenses:775 · Miscella	SOP - 01048 - Horseshoe Bend Condos	500.00
401 · Operating Expenses:775 · Miscella	SOP - 07055 - Greenbriar Subdivision	500.00
401 · Operating Expenses:775 · Miscella	SOP - 05030 - Fanning Bend	1,000.00
401 · Operating Expenses:775 · Miscella	SOP - 98050 - Windsor Pointe	750.00
401 · Operating Expenses:775 · Miscella	SOP - 98041 - Lewis Gardens	1,000.00
401 · Operating Expenses:775 · Miscella	SOP - 01028 - Maple Green Reclamation Facility	1,150.00
401 · Operating Expenses:775 · Miscella	SOP - 02020 - Cedar Hill Baptist Church	500.00
401 · Operating Expenses:775 · Miscella	SOP - 02021 - McLemore Farms	500.00
401 · Operating Expenses:775 · Miscella	SOP - 05033 - Smoky Village Subdivision	500.00
401 · Operating Expenses:775 · Miscella	SOP - 00019 - Starr Crest Resort	500.00
401 · Operating Expenses:775 · Miscella	SOP - 05030 - Fanning Bend Treatment Facility	1,000.00
401 · Operating Expenses:775 · Miscella	SOP - 07059 - Clarkrange Treatment Facility	750.00

Pinnacle Checking SOP Renewal Applications (see details) 10,150.00

TN DEPT. OF ENV. & CONSERVATION
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 DIVISION OF WATER RESOURCES



Tennessee Department of Environment and Conservation
Division of Water Pollution Control
William R. Snodgrass Tennessee Tower
312 Rosa L. Parks Avenue, 11th Floor
Nashville, Tennessee 37243
(615) 532-0625

APPLICATION FOR A STATE OPERATION PERMIT (SOP)

Type of application: ☐ New Permit ☒ Permit Reissuance ☐ Permit Modification

Permittee Identification: (Name of city, town, industry, corporation, individual, etc., applying, according to the provisions of Tennessee Code Annotated Section 69-3-108 and Regulations of the Tennessee Water Quality Control Board.)

Permittee

Name **Tennessee Wastewater Systems, Inc.**
(applicant):

Permittee
Address: **849 Aviation Parkway Smyrna, TN 37167**

Official Contact:
Charles Hyatt

Title or Position:
President

Mailing Address:
849 Aviation Parkway

City: **Smyrna** State: **TN** Zip: **37167**

Phone number(s):
615-220-7200

E-mail:

Optional Contact:
Tracy Nichols

Title or Position:
Operator

Address:
849 Aviation Parkway

City: **Smyrna** State: **TN** Zip: **37167**

Phone number(s):
615-220-7200

E-mail:

Application Certification (must be signed in accordance with the requirements of Rule 1200-4-5-.05)

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 gathered and evaluated 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 fine and imprisonment for knowing violations.

Name and title; print or type

Signature

Date

Charles Hyatt, President

12-27-17

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DIVISION OF WATER RESOURCES

Facility Identification:		Existing Permit No.	01028
Facility Name:	Maple Green Reclamation Facility	County:	Robertson
Facility Address or Location:	Off Henry Gower Road Coopertown, TN 37172	Latitude:	36.44019
		Longitude:	-86.99603
Name and distance to nearest receiving waters: Millers Creek – (Approx. 1500')			
If any other State or Federal Water/Wastewater Permits have been obtained for this site, list their permit numbers: N/A			
Name of company or governmental entity that will operate the permitted system: Tennessee Wastewater Systems, Inc.			
Operator address: 849 Aviation Parkway, Smyrna, TN 37167			
Has the owner/operator filed for a Certificate of Convenience & Necessity (CCN), or an amended CCN, with the Tennessee Regulatory Authority (TRA) (may be required for collection systems and land application treatment systems)? ☐ Yes ☐ No ☒ N/A			
If the applicant listed above does not yet own the facility/site or if the applicant will not be the operator, explain how and when the ownership will be transferred or describe the contractual arrangement and renewal terms of the contract for operations. N/A			
Complete the following information explaining the entity type, number of design units, and daily design wastewater flow:			
<u>Entity Type</u>	<u>Number of Design Units</u>		<u>Flow (gpd)</u>
☐ City, town or county	No. of connections:		
☐ Subdivision	No. of homes:	Avg. No. bedrooms per home:	
☐ School	No. of students:	Size of cafeteria(s): No. of showers: 0	
☐ Apartment	No. of units:	No. units with Washer/Dryer hookups: No. units without W/D hookups:	
☐ Commercial Business	No. of employees:	Type of business:	
☐ Industry	No. of employees:	Product(s) manufactured:	TN DEPT. OF ENV. & CONSERVATION
☐ Resort	No. of units:		DEC 29 2017
☐ Camp	No. of hookups:		
☐ RV Park	No. of hookups:	No. of dump stations:	DIVISION OF WATER RESOURCES
☐ Car Wash	No. of bays:		
☒ Other	Regional Facility	Regional Treatment and Drip Disposal	90,000
Describe the type and frequency of activities that result in wastewater generation. Typical Domestic Waste – residential and light commercial development			

Engineering Report (required for collection systems and/or land application treatment systems):	☐ N/A
☐ Prepared in accordance with Rule 1200-4-2-.03 and Section 1.2 of the Tennessee Design Criteria (see website for more information)	
☐ Attached, or	
☒ Previously submitted and entitled: Maple Green Reclamation Facility Approved? ☒ Yes. Date: 3/01/17	
☐ No	

Wastewater Collection System:	☐ N/A
System type (i.e., gravity, low pressure, vacuum, combination, etc.): Watertight effluent collection	
System Description: 2", 4", 6", and 8" diameter SDR 21 PVC pressure pipe and required fittings	
Describe methods to prevent and respond to any bypass of treatment or discharges (i.e., power failures, equipment failures, heavy rains, etc.): Tanks and sewers are watertight. There are no bypass points in the system. TWSI also has emergency generators to run the pumps.	
In the event of a system failure describe means of operator notification: All pumps have redundancy & alarms.	
List the emergency contact(s) (name/phone): Brian Carter – 615-220-7200	
For low-pressure systems, who is responsible for maintenance of STEP/STEG tanks and pumps or grinder pumps (list all contact information)? All notifications come to TWSI at 615-220-7200	
Approximate length of sewer (excluding private service lateral): As required	
Number/hp of lift stations: 2 / 0.5	Number/hp of lift pumps 0/0
Number/volume of low pressure and or grinder pump tanks 0/0	Number/volume septic tanks As required / 1,500 gal
Attach a schematic of the collection system. ☐ Attached Previously submitted and approved	
If this is a satellite sewer and you are tying in to another sewer system complete the following section, listing tie-in points to the sewer system and their location (attach additional sheets as necessary):	
<u>Tie-in Point</u>	<u>Latitude (xx.xxxx°)</u>
<u>Longitude (xx.xxxx°)</u>	
N/A	

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Land Application Treatment System:	☐ N/A
Type of Land Application Treatment System: ☒ Drip ☐ Spray ☐ Other, explain:	
Type of treatment facility preceding land application (recirculating media filters, lagoons, other, etc.): Recirculating Media Filter	
Attach a treatment schematic. ☐ Attached Previously submitted and approved	
Describe methods to prevent and respond to any bypass of treatment or discharges (i.e., power failures, equipment failures, heavy rains, etc.): Same as above	
For New or Modified Projects: Name of Developer for the project: Existing permit	
Developer address and phone number: Existing permit	
For land application, list:	Proposed acreage involved: ~6.70 +/- acres Inches/week gpd/sq.ft loading rate to be applied: 2.25 inches/week
Is wastewater disinfection proposed?	
☐ Yes	Describe land application area access:
☒ No	Describe how access to the land application area will be restricted: Fence
Attach required additional Engineering Report Information (see website for more information)	
☐ Topographic map (1:24,000 scale presented at a six inch by six inch minimum size) showing the location of the project including quadrangle(s) name(s) GPS coordinates, and latitude and longitude in decimal degrees should also be included.	
☐ Scaled layout of facility showing the following: lots, buildings, etc. being served, the wastewater collection system routes, the pretreatment system location, the proposed land application area(s), roads, property boundaries, and sensitive areas such as streams, lakes, springs, wells, wellhead protection areas, sinkholes and wetlands.	
☐ Soils information for the proposed land disposal area in the form of a Water Pollution Control (WPC) Soils Map per Chapter 16 and 17 State of Tennessee Design Criteria for Sewage Work. The soils information should include soil depth (borings to a minimum of 4 feet or refusal) and soil profile description for each soil mapped.	
☐ Topographic map of the area where the wastewater is to be land applied with no greater than ten foot contours presented at a minimum size of 24 inches by 24 inches.	
☐ Describe alternative application methods based on the following priority rating: (1) connection to a municipal/public sewer system, (2) connection to a conventional subsurface disposal system as regulated by the Division of Groundwater Protection, and/or (3) land application.	

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For Drip Dispersal Systems Only: Unless otherwise determined by the Department, sewage treatment effluent wells, i.e, large capacity treatment/drip dispersal systems after approval of the SOP Application, will be issued an UIC tracking number and will be authorized as Permit by Rule per UIC Rule 1200-4-6-.14(2) and upon issue of a State Operating Permit and Sewage System Construction Approval by the Department.

☒ N/A

Describe the following:

The area of review (AOR) for each Drip Dispersal System shall, unless otherwise specified by the Department, consist of the area lying within a one mile radius or an area defined by using calculations under 1200-4-6-.09 of the Drip Dispersal System site or facility, and shall include, but not be limited to general surface geographic features, general subsurface geology, and general demographic and cultural features within the area. Attach to this part of the application a general characterization of the AOR, including the following: (This can be in narrative form)

- ☐ A general description of all past and present groundwater uses as well as the general groundwater flow direction and general water quality.
- ☐ A general description of the population and cultural development within the AOR (i.e. agricultural, commercial, residential or mixed)
- ☐ Nature of injected fluid to include physical, chemical, biological or radiological characteristics.
- ☐ If groundwater is used for drinking water within the area of review, then identify and locate on a topographic map all groundwater withdrawal points within the AOR, which supply public or private drinking water systems. Or supply map showing general location of publicly supplied water for the area (this can be obtained from the water provider)
- ☐ If the proposed system is located within a wellhead protection area or source water protection area designated by Rule 1200-5-1-.34, show the boundary of the protection area on the facility site plan.
- ☐ Description of system, Volume of injected fluid in gallons per day based upon design flow, including any monitoring wells
- ☐ Nature and type of system, including installed dimensions of wells and construction materials

Pump and Haul:

☒ N/A

Reason system cannot be served by public sewer:

Distance to the nearest manhole where public sewer service is available:

When sewer service will be available:

Volume of holding tank: _____ gal.

Tennessee licensed septage hauler (attach copy of agreement):

Facility accepting the septage (attach copy of acceptance letter):

Latitude and Longitude (in decimal degrees) of approved manhole for discharge of septage:

Describe methods to prevent and respond to any bypass of treatment or discharges (i.e., power failures, equipment failures, heavy rains, etc.):

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Holding Ponds (for non-domestic wastewater only):	☒ N/A
Pond use: ☐ Recirculation ☐ Sedimentation ☐ Cooling ☐ Other (describe):	
Describe pond use and operation:	
If the pond(s) are existing pond(s), what was the previous use?	
Have you prepared a plan to dispose of rainfall in excess of evaporation? ☐ Yes ☐ No	
If so, describe disposal plan:	
Is the pond ever dewatered? ☐ Yes ☐ No	
If so, describe the purpose for dewatering and procedures for disposal of wastewater and/or sludge:	
Is(are) the pond(s) aerated? ☐ Yes ☐ No	
Volume of pond(s):	Dimensions:
Is the pond lined (Note if this is a new pond system it must be lined for SOP coverage. Otherwise, you must apply for an Underground Injection Control permit.)? ☐ Yes ☐ No	
Describe the liner material (if soil liner is used give the compaction specifications):	
Is there an emergency overflow structure? ☐ Yes ☐ No	
<i>If so, provide a design drawing of structure.</i>	
Are monitoring wells or lysimeters installed near or around the pond(s)? ☐ Yes ☐ No	
<i>If so, provide location information and describe monitoring protocols (attach additional sheets as necessary):</i>	

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Mobile Wash Operations:		☒ N/A
☐ Individual Operator ☐ Fleet Operation Operator		
Indicate the type of equipment, vehicle, or structure to be washed during normal operations (check all that apply):		
☐ Cars ☐ Trucks ☐ Trailers (Interior washing of dump-trailers, or tanks, is prohibited.) ☐ Other (describe):	☐ Parking Lot(s): sq. ft. ☐ Windows: sq. ft. ☐ Structures (describe):	
Wash operations take place at (check all that apply):		
☐ Car sales lot(s) ☐ Private industry lot(s) ☐ County(ies), list:	☐ Public parking lot(s) ☐ Private property(ies) ☐ Statewide	
Wash equipment description:		
☐ Truck mounted ☐ Rinse tank size(s) (gal.): ☐ Collection tank size(s) (gal.):	☐ Trailer mounted ☐ Mixed tanks size(s) (gal.): Number of tanks per vehicle:	
Pressure washer: psi (rated) gpm (rated) ☐ gas powered ☐ electric		
Vacuum system manufacturer/model:		Vacuum system capacity: inches Hg
Describe any other method or system used to contain and collect wastewater:		
List the public sewer system where you are permitted or have written permission to discharge waste wash water (include a copy of the permit or permission letter):		
Are chemicals pre-mixed, prior to arriving at wash location? ☐ Yes ☐ No		
Describe all soaps, detergents, or other chemicals used in the wash operation (attach additional sheets as necessary):		
Chemical name:	Manufacturer:	Primary CAS No. or Product No.

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