



851 Aviation Parkway
Smyrna, TN 37167

August 29, 2018

Hon. Robin Morrison, Chairman
c/o Sharla Dillon
Tennessee Public Utilities Commission
502 Deaderick Street, 4th Floor
Nashville, TN 37243

RE: Petition of Tennessee Wastewater Systems Inc. for Approval of Capital Improvement
Surcharges and Financing Arrangements - Docket # 16-00096

Dear Chairman Morrison,

Pursuant with the Commission's approval of the settlement agreement in the above captioned matter at the July 23, 2018 Conference, and the terms of the settlement agreement which call for Tennessee Wastewater Systems, Inc. to begin immediate collection of the improvement surcharges, please find enclosed updated tariff pages with an effective date of August 31, 2018, which reflect the amounts agreed upon and approved for the Environmental Tariff Rider and Legal Expense Rider.

An original and four copies will follow per Commission rules. Should you have any questions or concerns, please do not hesitate to contact me.

Kind regards,



Jeff Risdien
General Counsel

Attachment

Cc: Karen Stachowski (via email)
Henry Walker (via email)

WASTEWATER UTILITY SERVICE

Original and revised sheets as named below comprise all changes from the original tariff and are currently in effect as of the date on the bottom of this sheet.

SECTION	SHEET	REVISION	SECTION	SHEET	REVISION
1	1	1 st Revised	5	1	1 st Revised
1	2	16 th Revised*	5	2	1 st Revised
1	3	1 st Revised	5	3	5 th Revised
1	4	Original	5	4	3rd Revised
1	5	Original	6	1	12 th Revised*
1	6	Original	6	2	12 th Revised*
1	7	Original	6	3	10 th Revised*
2	1	Original			
2	2	Original			
2	3	2 nd Revised			
2	3.1	Original			
2	4	1 st Revised			
2	5	1 st Revised			
2	6	Original			
2	7	1 st Revised			
2	7.1	Original			
2	8	Original			
2	9	2 nd Revised			
2	10	1 st Revised*			
3	1	Original			
3	2	Original			
3	3	Original			
3	4	2 nd Revised			
3	5	6 th Revised			
3	6	Original			
4	1	12 th Revised			
4	2	14 th Revised*			

Issued: August 13, 2018

Issued By: Charles Hyatt
President

Effective: August 31, 2018

WASTEWATER UTILITY SERVICE

Contracts for Service

Each customer before installation of service shall be required to execute, on the appropriate forms furnished by the Company, a Sewer Subscription Contract.

Customer Billing Forms

Customer billings will vary by location. In most instances, monthly bills will be sent to customers for payment of a flat monthly fee. In cases where pass through treatment costs are involved, a monthly bill will be sent to the customer and be based on the gallons of water used.

Public Contact

Charles Hyatt
851 Aviation Parkway
Smyrna, TN 37167
Phone - 615-220-7202

Tennessee Public Utility Commission Regulations

The Company, in its operation, shall conform to all the applicable rules and regulations promulgated from time to time by the Tennessee Public Utility Commission. The TPUC can be reached by phone at 1-800-342-8359 or 615-741-2904.

Environmental Repairs Tariff Rider

(T)

The Environmental Tariff Rider is for the sole purpose of establishing an environmental repairs account. The ETR will automatically terminate the sooner of after 120 months or the collection of funds adequate to cover the costs of the environmental projects for which the money is being collected. TPUC may terminate the rider at any time.

Legal Expense Rider

(T)

The Legal Expense Rider is for the sole purpose of reimbursement of the legal expenses related to Docket 16-00096 to the Utility. The LER shall automatically terminate the sooner of after 60 months of collection or upon collection of \$78,750 through the rider. TPUC may terminate the rider at any time.

Issued: August 29, 2018
Issued By: Charles Hyatt
President

Effective: August 31, 2018

WASTEWATER UTILITY SERVICE

RESIDENTIAL RATE SHEET EXPLANATION

FFR.D:	Standard Base RSF/Fixed Film Reactor Treatment Rate	\$34.02	
DCP.D:	Standard Base Deep Cell Pont Treatment/Drip Dispersal Rate	\$30.71	
DCP2.D:	Original Standard Base Deep Cell Pont Treatment/Drip Dispersal Rate	\$22.55	
DCP.P:	Standard Base Deep Cell Pont Treatment/Point Discharge Rate	\$30.71	
E1:	RSF Escrow Rate	\$10.13	
E2:	DCP Escrow Rate	\$8.43	
E3:	Southridge Escrow Rate	\$6.35	
B1:	Statewide bonding charge	- \$0.11	
			(D)
			(D)
F1:	3% City of Coopertown Franchise Fee on the Rate Class 1	\$1.32	
F2:	3% City of Coopertown Franchise Fee on the Rate Class 5	\$1.17	
LC:	Loan amortization costs for the Southridge treatment facility	\$21.33	
LL:	Land Lease costs for the Southridge treatment facility	\$2.67	
SOU:	Standard base Collection Rate for Southridge Subdivision	\$17.59	
TC:	Treatment costs passed through from the city of Clarksville	pass-through amt.	
ER	Environmental Tariff Rider	\$3.76	(N)
LR	Legal Expense Rider	\$0.45	(N)

FFR.D.E1.B1.ER.LR	= \$48.25	=	RATE CLASS 1 (34.02 + 10.13 - 0.11+3.76+0.45)	(T)
FFR.D.E1.B1.F1.ER.LR	= \$49.57	=	RATE CLASS 2 (34.02 + 10.13 - 0.11 + 1.32+3.76+0.45)	(T)
FFR.D.E1.B1.ER.LR	= \$48.25	=	RATE CLASS 3 (34.02 + 10.13 - 0.11+3.76+0.45)	(T)
FFR.D.E1.B1.ER.LR	= \$48.25	=	RATE CLASS 4 (34.02 + 10.13 - 0.11+3.76+0.45)	(T)
DCP.D.E2.B1.ER.LR	= \$43.24	=	RATE CLASS 5 (30.71 + 8.43 - 0.11+3.76+0.45)	(T)
DCP.D.E2.B1.F2.ER.LR	= \$44.41	=	RATE CLASS 6 (30.71 + 8.43 - 0.11 + 1.17+3.76+0.45)	(T)
DCP.P.E2.B1.ER.LR	= \$43.24	=	RATE CLASS 7 (30.71 + 8.43 - 0.11+3.76+0.45)	(T)
DCP.D.E2.B1.ER.LR	= \$43.24	=	RATE CLASS 8 (30.71 + 8.43 - 0.11+3.76+0.45)	(T)
SOU.E3.TC.B1.ER.LR	= \$28.04 + tc	=	RATE CLASS 9 (17.59 + 6.35 - 0.11+3.76+0.45) + tc	(T)
DCP2.D.E2.LC.LL.B1.ER.LR	= \$59.08	=	RATE CLASS 10 (22.55 + 8.43 + 21.33 + 2.67 - 0.11+3.76+0.45)(N)	(N)

Fees: Non-Payment – 5% of total bill amount**Disconnection – \$40****Reconnection – \$50****Returned Check (NSF Fee) – \$25****Credit Card Convenience Fee – 3%****Access Fee – \$120/yr (See Rules and Regulations for Explanation)****Tap Fee: E. Montgomery Fac. - \$3,000 Pre-Construction, \$3,500 Post-Construction****Issued: August 13, 2018****Issued By: Charles Hyatt
President****Effective: August 31, 2018**

WASTEWATER UTILITY SERVICE**SECTION 6 – COMMERCIAL RATES SHEET****without food service**

The monthly sewer charge per customer is based on the design daily flow expected from the type of establishment being served. A minimum of \$102.15 per month will be charged for up to the first 300 gallons per day of design flow expected. For each additional 100 gallons per day of design flow expected, up to a total of 1,000 gallons per day, an additional charge of \$20.45 per month per 100 gallons will be levied. For design flows expected over 1,000 gallons per day, the monthly rate will be \$157.95 per 1,000 gallons of daily flow.

COMMERCIAL W/O FOOD**			ESCROW***
Tier 1 (0-300GPD)	\$106.25	(N)	\$21.75
Tier 2.1 (301-400GPD)	\$126.70	(N)	\$26.17
Tier 2.2 (401-500GPD)	\$147.15	(N)	\$30.59
Tier 2.3 (501-600GPD)	\$167.60	(N)	\$35.01
Tier 2.4 (601-700GPD)	\$188.05	(N)	\$39.43
Tier 2.5 (701-800GPD)	\$208.50	(N)	\$43.85
Tier 2.6 (801-900GPD)	\$228.95	(N)	\$48.26
Tier 2.7 (901-1,000GPD)	\$249.40	(N)	\$52.68
Tier 3.1 (1,001-2,000GPD)	\$407.35	(N)	\$86.82
Tier 3.2 (2,001-3,000GPD)	\$565.30	(N)	\$120.92
Tier 3.3 (3,001-4,000GPD)	\$723.25	(N)	\$155.02
Each additional tier	+\$157.95		+\$34.10

Additional surcharges will apply when customers exceed their expected design flows. For any month that a customer's water meter reading exceeds the expected design flow, the following surcharges will apply:

Excess water usage	Surcharge
1 gallon to 1,000 gallons above expected design flow	\$175.00
1,001 gallons to 2,000 gallons above expected design flow	\$200.00
Over 2,000 gallons above expected design flow	\$200.00/1000 gallons

If the water meter readings exceed the design flow for any three consecutive months, the monthly charge will be revised to reflect the increased usage and any capital costs associated with increasing the capacity of the system will be paid by the customer.

Fees: Nonpayment – 5%	Reconnection - \$50	City of Coopertown
Disconnection - \$40	Returned Check - \$25	Franchise Fees: 3%
Credit Card Convenience Fee - 3%		
****Environmental Tariff Rider - \$3.76 (N)		
****Legal Expense Rider - \$0.45 (N)		

Bonding Amount of -\$0.11 is included in the Total *Escrow amount is included in the Total

**** Environmental Tariff and Legal Expense Rider amounts are included in the Total. (T)

Issued: August 13, 2018
 Issued By: Charles Hyatt
 President

Effective: August 31, 2018

WASTEWATER UTILITY SERVICE**COMMERCIAL RATES SHEET****with food service**

The monthly sewer charge per customer is based on the design daily flow expected from the type of establishment being served. A minimum of \$136.15 per month will be charged for up to the first 300 gallons per day of design flow expected. For each additional 100 gallons per day of design flow expected, up to a total of 1,000 gallons per day, an additional charge of \$24.50 per month per 100 gallons will be levied. For design flows expected over 1,000 gallons per day, the monthly rate will be \$193.35 per 1,000 gallons of daily flow.

<u>COMMERCIAL W/ FOOD**</u>		<u>ESCROW***</u>
Tier 1 (0-300GPD)	\$140.25 (N)	\$29.00
Tier 2.1 (301-400GPD)	\$164.75 (N)	\$34.22
Tier 2.2 (401-500GPD)	\$189.25 (N)	\$39.44
Tier 2.3 (501-600GPD)	\$213.75 (N)	\$44.66
Tier 2.4 (601-700GPD)	\$238.25 (N)	\$49.88
Tier 2.5 (701-800GPD)	\$262.75 (N)	\$55.10
Tier 2.6 (801-900GPD)	\$287.25 (N)	\$60.32
Tier 2.7 (901-1,000GPD)	\$311.75 (N)	\$65.54
Tier 3.1 (1,001-2,000GPD)	\$505.10 (N)	\$107.18
Tier 3.2 (2,001-3,000GPD)	\$698.45 (N)	\$148.82
Tier 3.3 (3,001-4,000GPD)	\$891.80 (N)	\$190.46
Each additional tier	+\$193.42	+\$41.64

Additional surcharges will apply when customers exceed their expected design flows. For any month that a customer's water meter reading exceeds the expected design flow, the following surcharges will apply:

Excess water usage	Surcharge
1 gallon to 1,000 gallons above expected design flow	\$210.00
1,001 gallons to 2,000 gallons above expected design flow	\$220.00
Over 2,000 gallons above expected design flow	\$220.00/1000 gallons

If the water meter readings exceed the design flow for any three consecutive months, the monthly charge will be revised to reflect the increased usage and any capital costs associated with increasing the capacity of the system will be paid by the customer.

Fees: Nonpayment – 5%	Reconnection - \$50	City of Coopertown
Disconnection - \$40	Returned Check - \$25	Franchise Fees: 3%
Credit Card Convenience Fee – 3%		
****Environmental Tariff Rider - \$3.76 (N)		
****Legal Expense Rider - \$0.45 (N)		

Bonding Amount of -\$0.11 is included in the Total *Escrow amount is included in the Total

**** Environmental Tariff and Legal Expense Riders are included in the Total (T)

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Effective: August 31, 2018

WASTEWATER UTILITY SERVICE**COMMERCIAL RATES SHEET****Overnight Rental Units**

The monthly sewer charge per customer is based on the monthly average daily flow monitored from the unit being served. A minimum of \$69.15 per month will be charged for up to the first 300 gallons per day of average daily flow. For each additional 100 gallons per day of average daily flow, up to a total of 1,000 gallons per day, an additional charge of \$15.00 per month per 100 gallons will be levied. For avg daily flows over 1,000 gallons per day, an additional monthly charge of \$157.95 per 1,000 gallons of avg daily flow will apply.

OVERNIGHT RENTAL UNITS****ESCROW*****

Tier 1 (0-300GPD)	\$73.25 (N)	\$15.95
Tier 2.1 (301-400GPD)	\$88.25 (N)	\$19.49
Tier 2.2 (401-500GPD)	\$103.25 (N)	\$23.02
Tier 2.3 (501-600GPD)	\$118.25 (N)	\$26.56
Tier 2.4 (601-700GPD)	\$133.25 (N)	\$30.10
Tier 2.5 (701-800GPD)	\$148.25 (N)	\$33.63
Tier 2.6 (801-900GPD)	\$163.25 (N)	\$37.17
Tier 2.7 (901-1,000GPD)	\$178.25 (N)	\$40.71
Tier 3.1 (1,001-2,000GPD)	\$336.20 (N)	\$77.95
Each additional tier	+\$157.95	+\$37.24

Each customer will be billed the minimum monthly charge unless TWS determines that the customer's measured usage exceeds an average of 300 gallons per day over a thirty day period. Unless otherwise stated in this tariff, measured usage will be based on a customer's actual or estimated usage, averaged over a thirty-day period.

Actual usage may be measured in any of the following ways:

- Effluent flow meter.
- STEP pump. Usage will be measured by multiplying the period of elapsed pumping time shown on the pump times the capacity of the pump.
- In the absence of an effluent flow meter or a STEP pump, usage will be assumed to be equal to the customer's usage of potable water as shown on the customer's potable water meter.

If a customer is charged in excess of the minimum monthly fee, TWS will measure the customer's actual usage at least once every ninety days using one of the methods described above and display on the customer's statement the usage and measurement method used. In any month in which TWS does not measure the company's actual usage, the customer's monthly bill will be based on the customer's estimated monthly usage. No less than once every ninety days TWS will bill (or credit) the customer for any differences between an estimated bill and actual measured usage.

If a customer's usage exceeds the average daily design flow for three consecutive months, the customer may be required to pay any capital costs associated with increasing the capacity of that portion of the system designed and dedicated to serve that customer. For purposes of this section, TWS must measure actual usage for three consecutive months using one of the methods described above.

If TWS determines that a customer's usage meets the criteria described above, TWS will notify the customer in writing of any proposed construction work, the reasons for the work, and the estimated cost to the customer. The notice will also state that if the customer believes that his usage does not meet the criteria described above or that the charge to the customer is unjust and unreasonable, the customer may file a written complaint with the Tennessee Regulatory Authority, located at 502 Deaderick Street, Nashville, TN, 37243. Unless the TRA orders otherwise, the filing of a complaint will not delay the proposed construction work but may initiate a proceeding in which the TRA will determine whether, under the terms of this tariff, the customer is responsible for the cost of the construction work.

Fees: Nonpayment – 5% Reconnection - \$50 Disconnection - \$40 Returned Check - \$25
Credit Card Convenience Fee - 3%

**** Environmental Tariff Rider - \$3.76 (N) **** Legal Expense Rider - \$0.45 (N)

Bonding Amount of -\$0.11 is included in the Total *Escrow amount is included in the Total

**** Environmental Tariff and Legal Expense Rider amounts are included in the Total (T)

Issued: August 13, 2018

Effective: August 31, 2018

**Issued By: Charles Hyatt
President**

16-00096

Cedar Hill
Cost Analysis
29-Aug-18

RECEIVED
SEP 11 AM 12:12
CITY OF CEDAR HILL

EXPENSES

	<u>Units</u>	<u>per</u>	<u>Price Per</u>	<u>Budget</u>	<u>Expenditures</u>	<u>% of Cost</u>
Consulting & Engineering						
Project Management	1 each		23,650.00	\$ 23,650.00		
Bond	1 each		4,250.00	\$ 4,250.00		
Engineering	1 each		\$ 24,000.00	\$ 24,000.00		
			Subtotal	\$ 51,900.00		
				\$ 51,900.00	\$ 40,000.00	77.07%

Adenus Technology	<u>Units</u>	<u>per</u>	<u>Price per</u>	<u>Budget</u>		
Sand Filter	1 each		\$ 42,600.00	\$ 42,600.00		
Drip Zones	1 each		\$ 18,500.00	\$ 18,500.00		
Dose Tank Pumps & Parts	1 each		\$ 14,000.00	\$ 14,000.00		
Control Panel & Arkal	1 each		\$ 19,000.00	\$ 19,000.00		
Recirculation Tank Pumps & Parts	1 each		\$ 5,000.00	\$ 5,000.00		
			Subtotal	\$ 99,100.00		
				\$ 99,100.00		

Tanks, Pond, Filter Media & Building	<u>Units</u>	<u>per</u>	<u>Price per</u>	<u>Budget</u>		
Filter media	1 each		\$ 15,000.00	\$ 15,000.00		
Dose Tank	1 each		\$ 10,000.00	\$ 10,000.00		
Recirculation Tank	1 each		\$ 11,000.00	\$ 11,000.00		
Control Building	1 each		\$ 10,000.00	\$ 10,000.00		
			Subtotal	\$ 46,000.00		
				\$ 46,000.00		

Equipment	<u>Units</u>	<u>per</u>	<u>Price per</u>	<u>Budget</u>		
Instrumentation	1 each		\$ 7,500.00	\$ 7,500.00		
Pumps	2 each		\$ 3,000.00	\$ 6,000.00		
Excavator	8 weeks		\$ 1,000.00	\$ 8,000.00		
			Subtotal	\$ 21,500.00		
				\$ 21,500.00		

Labor	<u>Units</u>	<u>per</u>	<u>Price per</u>	<u>Budget</u>		
Labor	800 hour		\$ 75.00	\$ 60,000.00		
			Subtotal	\$ 60,000.00		
				\$ 60,000.00		

TOTAL \$ 278,500.00 \$ 40,000.00 14.36%

Type	Date	Num	Name	Memo	Class	Clr	Split	Debit	Credit	Balance
Bill	8/7/2018	1764	Adenus Operations	E&D - Cedar Hill Settlement			231 · Accounts Payable	40000		40000

Maple Green
Cost Analysis
29-Aug-18

EXPENSES

Consulting & Engineering	<u>Units</u>	<u>per</u>	<u>Price Per</u>	<u>Budget</u>		<u>Expenditures</u>	<u>% of Cost</u>
Project Management	1 each		29,750.00	\$ 29,750.00			
Bond	1 each		5,400.00	\$ 5,400.00			
Engineering	1 each		\$ 24,000.00	\$ 24,000.00			
			Subtotal	\$ 59,150.00			
					\$ 59,150.00	\$ 40,000.00	67.62%

Adenus Technology	<u>Units</u>	<u>per</u>	<u>Price per</u>	<u>Budget</u>			
Sand Filter	1 each		\$ 58,500.00	\$ 58,500.00			
Drip Zones	1 each		\$ 26,500.00	\$ 26,500.00			
Dose Tank Pumps & Parts	1 each		\$ 20,500.00	\$ 20,500.00			
Control Panel & Arkal	1 each		\$ 24,750.00	\$ 24,750.00			
Recirculation Tank Pumps & Parts	1 each		\$ 7,000.00	\$ 7,000.00			
			Subtotal	\$ 137,250.00			
					\$ 137,250.00	\$ 22,156.51	16.14%

Tanks, Pond, Filter Media & Building	<u>Units</u>	<u>per</u>	<u>Price per</u>	<u>Budget</u>			
Filter media	1 each		\$ 22,000.00	\$ 22,000.00			
Dose Tank	1 each		\$ 12,000.00	\$ 12,000.00			
Recirculation Tank	1 each		\$ 17,000.00	\$ 17,000.00			
Fencing	800 ln		\$ 17.00	\$ 13,600.00			
Control Building	1 each		\$ 10,000.00	\$ 10,000.00			
			Subtotal	\$ 74,600.00			
					\$ 74,600.00		

Equipment	<u>Units</u>	<u>per</u>	<u>Price per</u>	<u>Budget</u>			
Instrumentation	1 each		\$ 7,500.00	\$ 7,500.00			
Pumps	2 each		\$ 3,000.00	\$ 6,000.00		\$ 3,208.73	53.48%
Excavator	8 weeks		\$ 1,000.00	\$ 8,000.00			
			Subtotal	\$ 21,500.00			
					\$ 21,500.00		

Labor	<u>Units</u>	<u>per</u>	<u>Price per</u>	<u>Budget</u>			
Labor	960 hour		\$ 75.00	\$ 72,000.00			
			Subtotal	\$ 72,000.00			
					\$ 72,000.00		

					<u>TOTAL</u>	\$ 364,500.00	\$ 65,365.24	17.93%
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Type	Date	Num	Name	Memo	Class	Clr	Split	Debit	Credit	Balance
Bill	8/7/2018	15406	Adenus Technologies, LLC	Maple Green - Pump Replacement	Maple Green		231 - Accounts Payable	3208.73		3208.73
Bill	8/7/2018	1763	Adenus Operations	E&D - Maple Green Settlement			231 - Accounts Payable	40000		43208.73
General Journal	8/27/2018	82718		Reclass Maple Green repairs to CIP account			174.2 - Construction Pass-Maple Green	22156.51		65365.24

Maple Green
Smoky Village
29-Aug-18

EXPENSES

	<u>Units</u>	<u>per</u>	<u>Price Per</u>	<u>Budget</u>		<u>Expenditures</u>	<u>% of Cost</u>
Consulting & Engineering							
Project Management/Engineering	1 each		14,167.34	\$ 14,167.34		\$ 14,167.34	100.00%

Subtotal	\$	14,167.34	
	\$	14,167.34	

Previous Completed Construction	\$	1,869.32	
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	<u>Units</u>	<u>per</u>	<u>Price per</u>	<u>Budget</u>	
Construction					
Labor	1 each		\$ 46,135.00	\$ 46,135.00	
Material	1 each		\$ 28,296.40	\$ 28,296.40	
Equipment	1 each		\$ 34,510.00	\$ 34,510.00	
Contingencies (5%)	1 each		\$ 5,447.07	\$ 5,447.07	
Overhead (15%)	1 each		\$ 16,341.21	\$ 16,341.21	
Profit	1 each		\$ 12,528.26	\$ 12,528.26	
				\$	143,257.94

Property Acquisition	\$	42,000.00	
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<u>TOTAL</u>	\$	159,294.60	\$ 14,167.34	8.89%
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Type	Date	Num	Name	Memo	Class	Clr	Split	Debit	Credit	Balance
Bill	8/7/2018	1765	Adenus Operations	E&D - Smoky Village Settlement			231 · Accounts Payable	14167.34		14167.34