



851 Aviation Parkway  
Smyrna, TN 37167

December 22, 2017

Mr. David Jones, Chairman  
c/o Sharla Dillon  
Tennessee Regulatory Authority  
502 Deaderick St., 4<sup>th</sup> Floor  
Nashville, TN 37243

17-00146

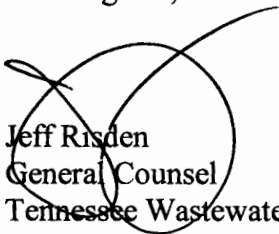
RECEIVED  
DEC 29 PM 12:37  
T.N.R.A. DOCUMENTS UNIT

Re: Petition of Tennessee Wastewater Systems Inc  
To Amend Its Certificate of Convenience and Necessity – Lighthouse Pointe Farms

Dear Chairman Jones:

Tennessee Wastewater Systems, Inc. has electronically filed the enclosed Petition for to Amend Its Certificate of Convenience and Necessity along with the included pre-filed Direct Testimony of Fred Pickney. Provided herein are an original and four copies of the Petition and Testimony along with the \$25 application fee.

Kind regards,

  
Jeff Ridsen  
General Counsel  
Tennessee Wastewater Systems, Inc.

**IN THE TENNESSEE PUBLIC UTILITY COMMISSION  
AT NASHVILLE, TENNESSEE**

**IN RE:** )  
 )  
**PETITION OF TENNESSEE** )  
**WASTEWATER SYSTEMS, INC., TO** )  
**AMEND ITS CERTIFICATE OF** )  
**CONVENIENCE AND NECESSITY** )

**DOCKET NO.**

*17-00146*

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**PETITION TO AMEND CERTIFICATE OF CONVENIENCE AND NECESSITY**

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Tennessee Wastewater Systems, Inc. ("TWSI" or "Company") petitions the Tennessee Public Utility Commission ("TPUC") to amend its Certificate of Convenience and Necessity to expand its service area to include a development in Grainger County known as Lighthouse Pointe. As demonstrated in the application and attached exhibits, there is a public need for service and TWSI has the requisite management experience, financial capability, and technical expertise to provide such service pursuant to the rules and regulations of the Commission. In support of its Petition, TWSI states as follows:

1. TWSI is a leader in decentralized wastewater systems and technology in the Southeastern United States. TWSI has been a regulated provider of wastewater services in Tennessee since receiving its initial CCN from this Commission in 1994; currently holding over 100 certificates for territories in Middle and East Tennessee and providing service to over 3000 customers across the State.

2. The proposed service area for this amendment encompasses a residential subdivision located in Rutledge, Grainger County, Tennessee, known as Lighthouse Pointe Farms ("LPF") and is identified on Grainger County tax maps at Map 77-A, Parcels 1.00, 2.00, 3.00, 4.00, 5.00, 6.00, and 7.00. A map of the location for the development is attached as Exhibit "A".

LPF is located on a small peninsula that juts into Cherokee Lake. It is at the end of the Mallard Baye development through which one must drive in order to get to the front entrance. It was developed in 2003/2004. There are seven lots with Lot #1 earmarked for the septic system and one house built on Lot #5. The community was originally to have a central septic system on Lot #1 but instead of installing that system, the developer bought three lots in the neighboring Mallard Baye community to be used as a drip field for a standard system. The waste water from all the lots in LPF would then be piped to those lots through an easement behind the Mallard Baye home sites. Eventually the house on Lot #5 was hooked into this system.

In 2007, a lawsuit was filed by some homeowners in Mallard Baye against the developer and LPF to have the system removed. The judge determined that the developer fraudulently obtained approval for the Mallard Baye drip field from the Grainger County Planning Commission and rendered a judgement to disconnect the system and remove the tanks.

The homeowners' association, with the support of the home and lot owners of LPF now wish to have a decentralized wastewater system installed so that the remaining five lots in the subdivision may be developed (see attached Exhibits "B" and "C").

TWSI holds two CCNs in Grainger County. The LHP community is located approximately 2 miles from Grainger's Landing Condominiums (Docket #05-00117) and 9 miles from German Creek Marina and Resort (Docket #05-00138).

3. The proposed wastewater treatment facility will be known as Lighthouse Pointe and will be a septic tank effluent pump ("STEP") system consisting of watertight effluent collection, recirculating media treatment, and subsurface drip dispersal. The system will be constructed to serve all six homesites (one existing home and five empty lots) in the community. This type of system is in the majority of those owned and operated by TWSI. A

State Operating Permit from the Tennessee Department of Environment and Conservation has been applied for and is pending approval (see attached Exhibit “D”). The land for the treatment facility will be deeded to TWSI at the time the final plat is signed prior to recording.

4. TWSI has the management and technical experience to operate the proposed system as evidenced in part by the over 100 certificates it has been issued by this Commission to operate wastewater systems across Middle and East Tennessee. The Company will handle system operations, inspection, maintenance, and repair services through its Certified Operators. The system will be monitored continuously through remote telemetry and the HAWKMS system. HAWKMS gives operators the ability to remotely monitor and control their plants by means of status and override values. The technology is also able to generate performance reports that can be delivered to utility management to highlight key performance indicators. HAWKMS is the most advanced system of its type in the country and can sense and adapt to certain aspects of plant operation to optimize energy consumption and plant conditions. There are currently over 300 wastewater facilities utilizing this technology.

5. TWSI has the financial capabilities to provide wastewater service to the proposed development. TWSI currently has filed with the Commission a bond in the amount of \$300,000 which the Commission has determined to be sufficient and in the public interest. The cost of construction for the system is being paid by the LHP Homeowners’ Association through a contribution in aid of construction. Lastly upon completion of the construction of the system and acceptance by the utility, the present homeowner will sign a contract for sewer service with TWSI while the remaining lot owners will pay annual access fees in accordance with the TWSI’s tariff which will help cover the operations and maintenance costs of the system until homes are built and monthly sewer customers are established. Please Exhibit “E” for TWSI’s

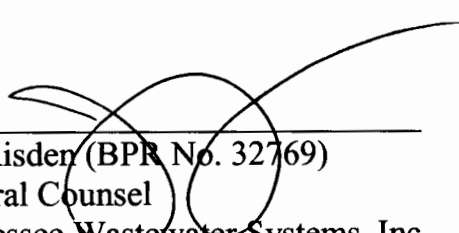
2016 Annual Report as filed with the Commission and Exhibit “F” which is the 5-year build out projection for the subdivision.

6. TWSI has received letters from the Bean Station Water Utility and Grainger County Mayor stating water service is not presently available, thus no sewer, nor will sewer be provided to this subdivision (see attached Exhibit “G and H”) as well as a letter from the Lighthouse Pointe Homeowners’ Association on behalf of the lot owners requesting that TWSI provide sewer service to the Lighthouse Pointe subdivision (see attached Exhibit “I”).

7. Residential Customers at LPF will be charged according to Rate Class 1 of TWSI’s tariff. That rate is currently set at \$44.42 as of the date of this filing (see attached Exhibit “J”).

THEREFORE, having shown that TWSI has the requisite managerial experience, technical experience, and financial capabilities – as well as establishing that a need exists for the Company to provide service to the Lighthouse Pointe Farms subdivision, TWSI respectfully requests the Commission to approve TWSI’s request to amend its CCN to include Lighthouse Pointe Farms.

RESPECTFULLY SUBMITTED,



\_\_\_\_\_  
Jeff Riden (BPR No. 32769)  
General Counsel  
Tennessee Wastewater Systems, Inc.  
851 Aviation Parkway  
Smyrna, TN 37167  
(615) 220-7171  
[jeff.riden@adenus.com](mailto:jeff.riden@adenus.com)

# EXHIBIT A



# Tennessee Property

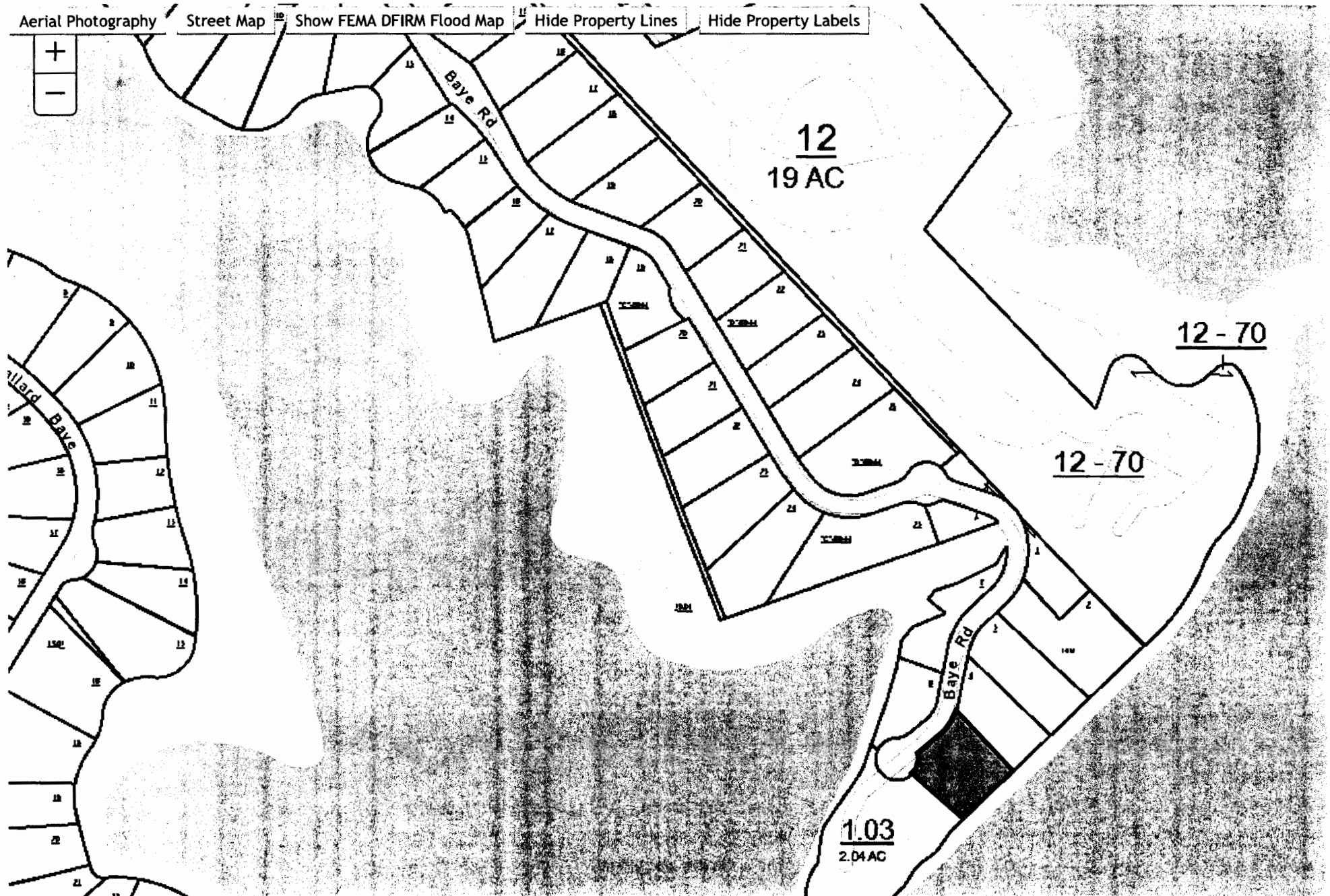
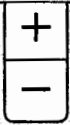
Aerial Photography

Street Map

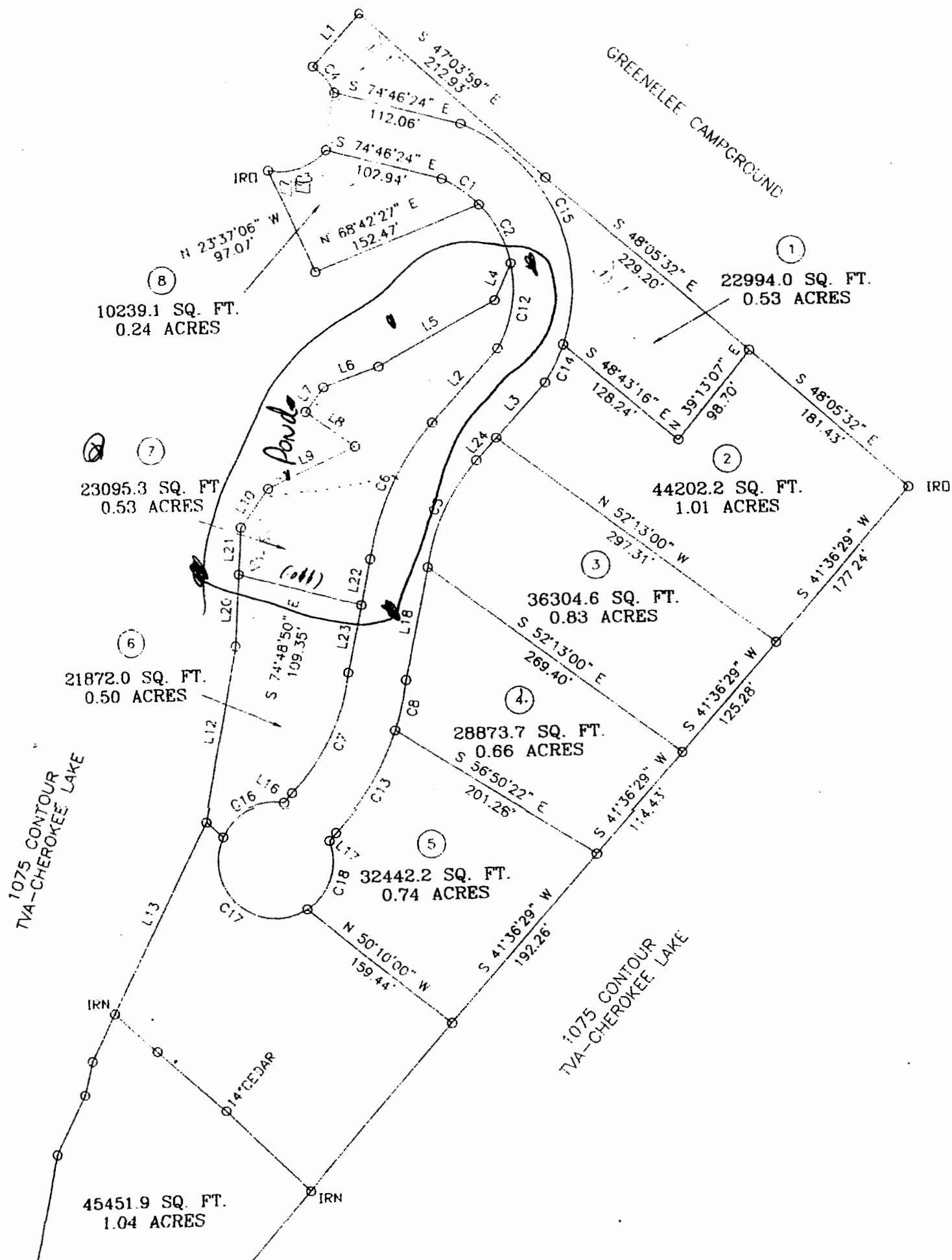
Show FEMA DFIRM Flood Map

Hide Property Lines

Hide Property Labels



LIGHTHOUSE      POINTE





LOT 117  
MALLARD BAYE 5  
**DOTSON**  
(IND.BK. 277 PG. 174)

LOT 1A  
4789.78 SF  
0.11 Ac

50.00' BAYE ROAD

LOT 117  
MALLARD BAYE 3  
**LISH**  
(IND.BK. 314 PG. 1844)

**HOLBROOK  
FAMILY  
PARTNER**  
(IND.BK. 311 PG. 1282)

LOT 1B  
6240.16 SF  
0.14 Ac

LOT 7  
26887.06 SF  
0.61 Ac

LOT 6  
18531.78 SF  
0.43 Ac

LOT 2  
44225.26 SF  
1.02 Ac

LOT 3  
36389.73 SF  
0.84 Ac

LOT 4  
29733.62 SF  
0.68 Ac

LOT 5  
31362.45 SF  
0.72 Ac

**SCHEIDT**  
(IND.BK. 272 PG. 235)

CHEROKEE L

KE

# CERTIFICATE OF OWNERSHIP AND GENERAL DEDICATION

THIS IS TO CERTIFY THAT THE OWNERS OF THE PROPERTY SHOWN AND DESCRIBED HEREON, HEREBY ADOPT THIS SUBDIVISION PLAT AND DEDICATE ALL RIGHTS, ALLEYS, WALKS, PARKS OR OTHER PUBLIC USES AND OPEN SPACE TO PUBLIC OR PRIVATE USE AS NOTED.

DATE: \_\_\_\_\_  
OWNER: \_\_\_\_\_  
OWNER: \_\_\_\_\_  
OWNER: \_\_\_\_\_  
OWNER: \_\_\_\_\_

## CERTIFICATION OF STREETS

I CERTIFY THAT STREETS AND RELATED APPURTENANCES INSTALLED, OR PROPOSED FOR INSTALLATION, FULLY MEET THE SPECIFICATIONS ESTABLISHED BY THE REGIONAL PLANNING COMMISSION.

DATE: \_\_\_\_\_ ROAD ENH./HIGHWAY COMMISSION

## CERTIFICATION OF STREET NAMES

I CERTIFY THAT STREET NAMES ARE IN COMPLIANCE WITH E-911 AND DO NOT CONFLICT WITH OTHER STREET NAMES IN THE COUNTY.

DATE: \_\_\_\_\_ E-911 COORDINATOR

## CERTIFICATION OF ELECTRIC LINES

I CERTIFY THAT ELECTRIC LINES HAVE BEEN INSTALLED IN AN ACCEPTABLE MANNER AND ACCORDING TO THE REQUIREMENTS OF THIS COMPANY, OR A LETTER OF CREDIT, SECURITY BOND HAS BEEN POSTED WITH THE PLANNING COMMISSION TO ASSURE COMPLETION OF ALL REQUIRED IMPROVEMENTS IN CASE OF DEFAULT.

DATE: \_\_\_\_\_ ELECTRIC COMPANY REPRESENTATIVE

## CERTIFICATION OF APPROVAL FOR RECORDING

I CERTIFY THAT THIS PLAT HAS BEEN FOUND TO COMPLY WITH THE SUBDIVISION REQUIREMENTS FOR THE PLANNING COMMISSION, WITH THE EXCEPTION OF SUCH VARIANCES, IF ANY, WHICH ARE NOTED. ALL IMPROVEMENTS HAVE BEEN INSTALLED, OR AN ACCEPTABLE SURVEY POSTED IN ORDER TO ASSURE COMPLETION. THIS LOT IS APPROVED FOR RECORDING IN THE OFFICE OF THE COUNTY REGISTER.

DATE: \_\_\_\_\_ SECRETARY, REGIONAL PLANNING COMMISSION

## CERTIFICATION OF ACCURACY

I CERTIFY THAT THE PLAT DESCRIBED HEREON IS A TRUE AND CORRECT SURVEY TO THE ACCURACY REQUIRED BY THE REGIONAL PLANNING COMMISSION AND THAT MONUMENTS HAVE BEEN PLACED AS SHOWN HEREON, TO THE SPECIFICATIONS OF THE REGIONAL PLANNING COMMISSION.

THIS IS TO CERTIFY THAT I HAVE EXAMINED THE FEDERAL INSURANCE ADMINISTRATION FLOOD HAZARD MAP AND FOUND THE DESCRIBED PROPERTY IS NOT LOCATED IN A SPECIAL FLOOD HAZARD AREA, EXCEPT THAT AREA IDENTIFIED BY THE PLANNING COMMISSION.

I HEREBY CERTIFY THAT THIS IS A CATADROMIC SURVEY AND THE BASIS PRECISION OF THE UNADJUSTED SURVEY IS 1:10,000 AS SHOWN HEREON.

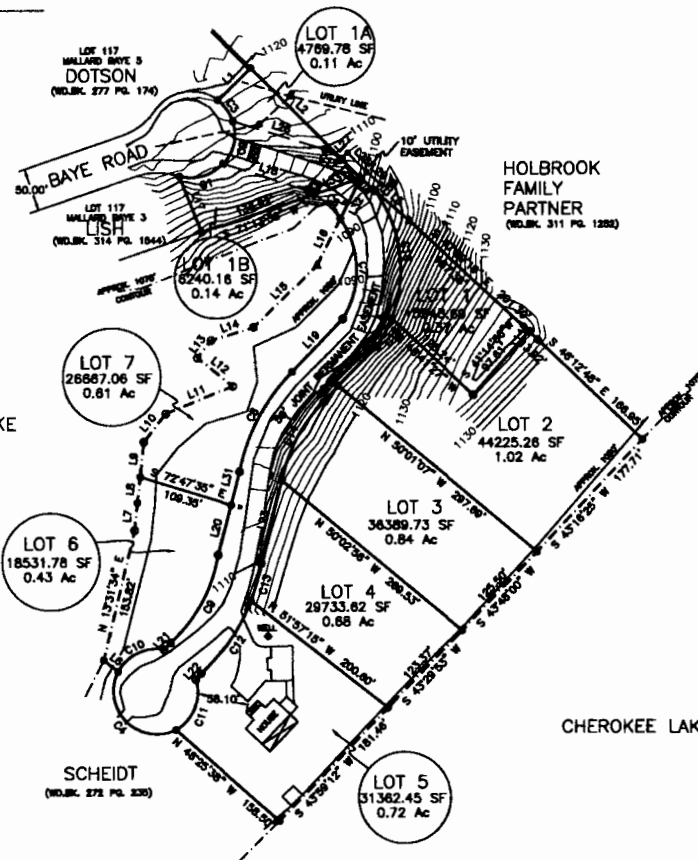
27th DAY OF OCTOBER, 2016

SURVEYOR: \_\_\_\_\_  
TENNESSEE CERTIFICATE NO. 2540

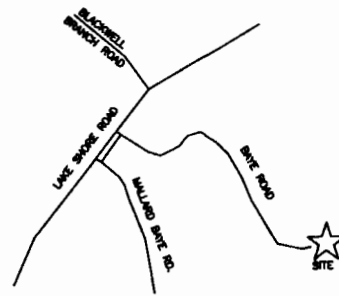


LINE	BEARING	DISTANCE
L1	N 44°00'00" E	83.17
L2	S 84°42'00" E	148.89
L3	S 84°42'00" E	31.89
L4	S 48°17'00" E	21.44
L5	S 48°17'00" E	62.87
L6	N 80°00'00" W	21.01
L7	N 80°00'00" W	32.11
L8	N 80°00'00" W	28.80
L9	N 80°00'00" E	40.78
L10	N 38°00'00" E	41.22
L11	N 67°20'00" E	85.48
L12	N 81°20'00" E	82.09
L13	N 38°42'00" E	28.10
L14	N 72°20'00" E	80.89
L15	N 48°42'00" E	102.00
L16	N 38°00'00" E	80.43
L17	N 51°00'00" W	80.39
L18	S 71°00'00" E	108.89
L19	S 48°00'00" W	84.89
L20	S 14°00'00" W	88.89
L21	S 48°14'21" E	10.89
L22	N 48°14'21" E	8.89
L23	N 14°00'00" E	88.89
L24	N 42°00'00" E	28.89
L25	N 44°00'00" E	68.89
L26	N 72°40'00" W	111.49
L27	N 48°17'00" E	10.00
L28	S 44°42'00" E	31.37
L29	S 48°17'00" E	21.17
L30	S 41°00'00" W	10.30
L31	S 14°00'00" W	40.89
L32	N 38°00'00" E	82.87
L33	S 71°00'00" W	88.79

CURVE	RADIUS	ARC LENGTH	CHORD LENGTH	CHORD BEARING	DELTA ANGLE
C1	80.00	88.89	88.89	N 72°12'00" E	84°00'00"
C2	80.00	88.89	88.89	N 12°12'00" E	80°18'00"
C3	80.00	28.84	28.84	N 30°18'00" W	34°18'00"
C4	80.00	134.82	84.88	N 44°00'00" W	142°21'17"
C5	104.89	8.81	8.81	S 88°42'00" E	8°48'00"
C6	104.89	41.81	41.81	S 48°20'00" E	28°00'00"
C7	104.89	128.89	118.89	S 01°20'00" E	87°00'00"
C8	238.89	191.79	128.81	S 27°00'00" W	59°18'19"
C9	178.89	117.84	118.44	S 38°42'00" W	38°34'00"
C10	80.00	88.89	88.89	S 84°00'00" W	72°00'00"
C11	80.00	87.87	88.89	N 21°00'00" E	77°00'00"
C12	288.89	188.89	188.89	N 34°00'00" E	38°12'00"
C13	288.89	44.72	44.88	N 18°00'00" E	11°00'00"
C14	178.89	188.12	188.89	N 27°00'00" E	38°00'00"
C15	184.89	38.42	38.34	N 38°18'00" E	13°28'41"
C16	184.89	188.89	188.34	N 01°00'00" W	87°42'00"
C17	184.89	21.88	21.88	N 60°00'00" W	8°00'00"



## LOCATION MAP N.T.S.



NOTES:  
PROPERTY IS SUBJECT TO ALL EASEMENTS, RESTRICTIONS, RIGHT OF WAYS, ZONING, RECORDED MAPS, DEEDS OF RECORD.  
PROPERTY IS SUBJECT TO A FLOODAGE EASEMENT IN FAVOR OF T.V.A. DEED 84 PG. 144, 88 PG. 141 & 144

PROPERTY HAS EXISTING UNDERGROUND POWER

PROPERTY HAS AN EXISTING PAVED PRIVATE ROAD. ROAD WILL NOT BE MAINTAINED BY THE COUNTY PRIVATE ROAD WAS APPROVED BY DAVID BEAN AS COUNTY ROAD SUPERINTENDENT DATED: 12-08-04. JOINT PERMANENT EASEMENT DEED 250 PAGE 904

SEE DEED 177 PAGE 1301  
SEE PLAT BOOK 5 SLIDE 122  
SEE RESTRICTIVE COVENANTS IN WD.286 PAGE 373

LAKE CONTOUR WAS PLATTED BY USING EXISTING RECORDED MAP FROM GARY WEEB DATED: 10-27-04

UTILITY & DRAINAGE:  
10' EXTERIOR LOT LINE AND ROAD  
5' EACH SIDE INTERIOR LOT LINE

BUILDING SETBACKS PER RESTRICTIVE COVENANTS

OWNER:  
LIGHTHOUSE POINTE  
HOMEOWNERS ASSOCIATION  
C/O JOHN WHEED  
648 TOM TREES RD.  
MORRISTOWN, TN. 37814

LOT 1, 1A & 1B LIGHTHOUSE POINTE HOMEOWNERS ASSOCIATION  
TAX MAP 77-A "A" 1.00 DEED 347 PAGE 973  
LOT 2 HEDRICK  
TAX MAP 77-A "A" 2.00 DEED 288 PAGE 585  
LOT 3 RINALDI  
TAX MAP 77-A "A" 3.00 DEED 288 PAGE 1489  
LOT 4 CANNUSCIO  
TAX MAP 77-A "A" 4.00 DEED 280 PAGE 712  
LOT 5 WRIGHT  
TAX MAP 77-A "A" 5.00 DEED 274 PAGE 713  
LOT 6 BRUGGEMAN  
TAX MAP 77-A "A" 6.00 DEED 280 PAGE 417  
LOT 7 HEDRICK  
TAX MAP 77-A "A" 7.00 DEED 288 PAGE 1257

## REPLAT OF

SURVEY FOR **LIGHTHOUSE POINTE**  
DISTRICT 2nd COUNTY OF GRANGER, TN. WITHIN THE CITY OF \_\_\_\_\_ WARD \_\_\_\_\_  
LOT NO. \_\_\_\_\_ BLOCK \_\_\_\_\_ IN \_\_\_\_\_  
ROUTE NO. \_\_\_\_\_ BOX \_\_\_\_\_ HOUSE NO. \_\_\_\_\_  
MAP BOOK \_\_\_\_\_ PAGE \_\_\_\_\_ SCALE 1" = 100'  
MAP CBL \_\_\_\_\_ SLIDE \_\_\_\_\_ DATE 10-27-15  
TAX MAP \_\_\_\_\_ GROUP \_\_\_\_\_ PARCEL \_\_\_\_\_  
WARRANTY DEED BK. \_\_\_\_\_ PAGE \_\_\_\_\_  
CITY BLOCK NO. \_\_\_\_\_ DRAIN BY ILK \_\_\_\_\_  
BEARING BASE, GPS NORTH \_\_\_\_\_  
MORTGAGE CO. \_\_\_\_\_  
TITLE CO. \_\_\_\_\_  
DRAWING NO. 15-028

**A.M. SURVEYING**  
RICHARD L. KENT R.L.S. # 2040  
4888 FOWLER DRIVE  
MORRISTOWN, TN. 37814  
PHONE: (423) 317-8825  
FAX: (423) 317-8828

## EXHIBIT B

Vincent and Rosemarie Cannuscio  
930 Whippoorwill Terr  
West Palm Beach, FL 33411

Chairman David Jones  
Tennessee Public Utility Commission  
502 Deaderick St, 4<sup>th</sup> Floor  
Nashville, TN 37243

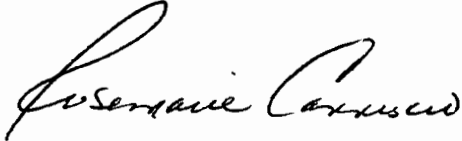
Dear Chairman Jones,

Tennessee Wastewater Systems, Inc. is filing a petition to modify its CCN to add to its service territory our seven-lot subdivision in Grainger County called Lighthouse Pointe. As lot owners in this subdivision we wish to make it known to the Commission that we wholeheartedly support this petition. We ask that the Commission act expeditiously in granting its approval so that we may finally have the much needed septic system in our community.

Sincerely,

Rosemarie Cannuscio

Vincent Cannuscio



Lot #4 Lighthouse Pointe  
[rosemariecan72@aol.com](mailto:rosemariecan72@aol.com)  
Cell 561-379-9377  
Home 561-790-3717



Kevin Bruggmann <kevinandapril1@gmail.com>

---

**letter**

1 message

---

**Kevin Bruggmann** <kevinandapril1@gmail.com>  
To: Kevin Bruggmann <kevinandapril1@gmail.com>

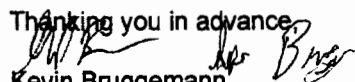
Thu, Nov 16, 2017 at 10:03 AM

**Kevin Bruggmann** <kevinandapril1@gmail.com> 10:01 AM (0 minutes ago)

to me

To whom it may concern Kevin and April Bruggemann have read the letter of understanding outlining the construction of a waste water system in Light House Point of which we own lot#6. We would appreciate the state of Tennessee cooperation in our efforts in completing this project.

Thanking you in advance

  
Kevin Bruggemann  
305-240-2126

Address: P. O. Box 42097  
Sumnerland Key, FL  
33042

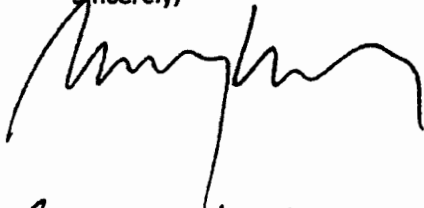
October 20, 2017

Chairman David Jones  
Tennessee Public Utility Commission  
502 Deaderick St, 4<sup>th</sup> Floor  
Nashville, TN 37243

Dear Chairman Jones,

Tennessee Wastewater Systems, Inc. is filing a petition to modify its CCN to add to its service territory our seven-lot subdivision in Grainger County called Lighthouse Pointe. As one of the lot owners in this subdivision I wish to make it known to the Commission that I wholeheartedly support this petition and hope that the Commission will act expeditiously in granting its approval so that we may finally have much needed and desired sewer available to our community.

Sincerely,



10-26-17

GARY WRIGHT Lot #5 Lighthouse PX

Permanent Address:

4N426 Knoll Creek Dr  
St. Charles, IL 60175

Tennessee Address:

1005 Baze Rd  
Rutledge, TN 37861

Email - gary@nascarcarwash.com

Telephone - 630-675-6660

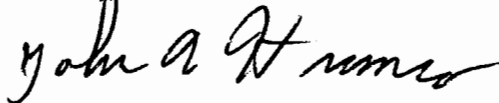
November 5, 2017

Chairman David Jones  
Tennessee Public utility Commission  
502 Deaderick St., 4<sup>th</sup> floor  
Nashville, TN 37243

Dear Chairman Jones,

Tennessee Wastewater Systems, Inc. is filing a petition to modify its CCN to add to its service territory our seven lot subdivision in Grainger County called Lighthouse Point. As one of the lot owners, as well as President of the Lighthouse Point Homeowners Association, I wish to make it known to the Commission that I strongly support this petition and request the Commission to quickly approve this action to allow our subdivision to have an approved septic system to enable the lot owners to have homes on their lots. The Lighthouse Point Homeowners Association has developed the legal structure to support the services of Tennessee Wastewater Systems which allows for transfer of deeds, collection of funds and disbursement's of fees. We look forward to working with you.

Sincerely,

A handwritten signature in black ink, appearing to read "John A. Hromco". The signature is fluid and cursive, with the first name "John" being the most prominent.

John Hromco  
648 Tom Treece Rd.  
Morristown, TN 37814  
423-839-1317

[johnhromco@yahoo.com](mailto:johnhromco@yahoo.com)

Owner lot 7

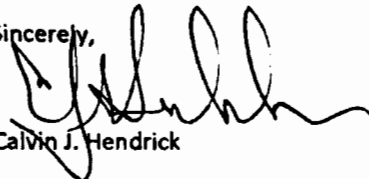
November 6, 2017

Chairman David Jones  
Tennessee Public Utility Commission  
502 Deaderick St, 4<sup>th</sup> Floor  
Nashville, TN 37243

Dear Chairman Jones,

Tennessee Wastewater Systems, Inc. is filing a petition to modify its CCN to add to its service territory our seven-lot subdivision in Grainger County called Lighthouse Pointe. As one of the lot owners in this subdivision I wish to make it known to the Commission that I wholeheartedly support this petition and hope that the Commission will act expeditiously in granting its approval so that we may finally have the much needed and desired septic system available to our community.

Sincerely,



Calvin J. Hendrick

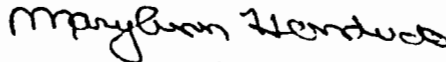
1 Glendale Avenue

Armonk, NY 10504

(914) 330-7058

[stdocks@yahoo.com](mailto:stdocks@yahoo.com)

Co-owner Lots 2 and 3



Mary Ann Hendrick

1 Glendale Avenue

Armonk, NY 10504

(914) 772-8339

[hendrickmary55@gmail.com](mailto:hendrickmary55@gmail.com)

Co-owner Lots 2 and 3



November 1, 2017

Chairman David Jones  
Tennessee Public Utility Commission  
502 Deaderick St, 4<sup>th</sup> Floor  
Nashville, TN 37243

Dear Chairman Jones,

Tennessee Wastewater Systems, Inc. is filing a petition to modify its CCN to add to its service territory our seven-lot subdivision in Grainger County called Lighthouse Pointe. As one of the lot owners in this subdivision I wish to make it known to the Commission that I wholeheartedly support this petition and hope that the Commission will act expeditiously in granting its approval so that we may finally have the much needed and desired septic system available to our community.

Sincerely,



Clifford L Hendrick

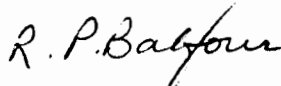
4605 Valley Ridge Ct

Fort Collins, CO 80526

(303) 895-8216

cliff.hendrick@gmail.com

Co-owner Lots 2 and 3



Rosemary P Balfour

4605 Valley Ridge Ct

Fort Collins, CO 80526

(303) 304-6275

merlin2872@yahoo.com

Co-owner Lots 2 and 3

# EXHIBIT C

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## LETTER OF UNDERSTANDING

---

This Letter of Understanding (LOU) outlines the fundamental terms of agreement and intentions between Tennessee Wastewater Systems, Inc. (TWS) and Lighthouse Pointe Homeowners Association, Inc. (LPH), Owner. Signatures represent acceptance of the terms of this LOU, pending final contract.

Questions and comments should be directed to Fred Pickney at (615) 220-7200, or [fred.pickney@adenus.com](mailto:fred.pickney@adenus.com).

Dated: October 26, 2017

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The fundamental terms of agreement and intention between TWS and LPH are as follows:

1. LPH is a mutual benefit corporation in Grainger County, TN, and desires to develop a residential subdivision on approximately 5.10+/- acres of property, located off of Baye Road (being Map 77-A Group "A", Parcels 1.00, 2.00, 3.00, 4.00, 5.00, 6.00, and 7.00, in Grainger County, TN). This property is proposing to accommodate approximately 6 single-family residential lots (Equivalent Dwelling Units, or EDUs). This lot count will be used for this Letter of Understanding. LPH represents that none of these residences will be used as short-term rentals.
2. TWS is a wastewater utility and will have to apply for a Certificate of Convenience and Necessity (CCN) to serve this property. To that end, LPH shall provide TWS with the following; (i) HOA request that TWS provide sewer service to the development; (ii) letter from the county mayor stating the county is unable or unwilling to provide sewer service to the development; and (iii) letter from the local water utility stating it is unable or unwilling to provide sewer service to the development. These documents have been provided.
3. The operation of the wastewater treatment and disposal system requires a State Operating Permit (SOP) from the State of Tennessee. This agreement is contingent upon a SOP being issued to TWS providing for service to the subdivision for the requested development density.
4. TWS will select and cause an engineer licensed in the State of Tennessee to design the wastewater treatment, disposal, and collection system to the specifications of TWS, and to provide a copy of the design plans to TWS for review and approval. TWS must approve the plans prior to submitting plans to the Tennessee Department of Environment and Conservation for review and approval.

Letter of Understanding  
Lighthouse Pointe Subdivision  
Lighthouse Pointe Homeowners Association, Inc.  
October 26, 2017

5. LPH agrees to provide the following for engineering and construction of the treatment, disposal, and sewer collection system:
  - Approximately 1819 SF of good soil - soil must provide 0.2 GPD/SF disposal capacity to meet this requirement - per home (EDU) proposed for disposal. (Approximately 10,913 SF, plus buffers, minimum). These soils will be transferred to TWS by warranty deed at the platting of the proposed development.
  - Five (5) original copies of an Extra High Intensity Soil Map (50' grid) by a Certified Soil Scientist (required by TDEC for SOP application and final design plans).
  - Topography map (digital AutoCAD .dwg file) of the entire proposed property @ a 2' contour interval (required by TDEC for final design plans). This has been provided.
  - Overall site plan of the proposed project (a preliminary plat is required for the final design plans). This has been provided.
  - Installation of all necessary sanitary sewer lines from the residences to the STEP tank(s) in accordance with TWS plans and specifications.
  - Plans for all underground utility lines on the proposed property including pipe locations, pipe sizes, pipe elevations, and locations of any utility components such as meter boxes, fire hydrants, catch basins, etc.
  - Final proposed grading plans for the proposed property.
  - Construction of a gravel access drive to the treatment facility capable of accommodating 20+ ton gravel/media trucks. Road will be constructed and ready for use prior to start of construction. The drive is to be maintained by LPH until construction of the treatment facility is completed.
  - Maintenance (mowing) of the area of soil map grid staking until construction has begun.
  - Easements dedicated as dictated by the final design plans for access to the collection, treatment and reuse/disposal system and for the residential services.
6. TWS will perform, or cause to be performed, the design of the treatment, disposal, and collection system and construction of the treatment and disposal system beginning at the STEP tank(s) for the contribution-in-aid of construction fee of \$90,000. Payment of the fees will be due per the following schedule:
  - 25 percent (\$22,500.00 U.S. Dollars) of fees will be due upon the signing of the design/build contract,

Letter of Understanding  
Lighthouse Pointe Subdivision  
Lighthouse Pointe Homeowners Association, Inc.  
October 26, 2017

- 50 percent (\$45,000.00 U.S. Dollars) of fees will be due at 50 percent completion of construction of the treatment and disposal facility, and
- 25 percent (\$22,500.00 U.S. Dollars) of fees will be due within 15 days of completion of construction, and approval and acceptance of the system by TWS and the Tennessee Department of Environment and Conservation.

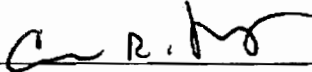
\*No home will be released to connect to the sewer collection system, or to the treatment and disposal system, until the Developer has paid all sewer development fees.

7. LPH agrees to post any bond amounts required by TWS, the County, and any other interested parties for all components of the wastewater collection, treatment, and disposal system required for that phase of the development prior to final plat being signed by TWS.
8. LPH agrees that TWS will receive a vacant lot fee of \$120.00 per year for any vacant platted lot that has not connected to the wastewater system and started paying a monthly sewer service fee. The vacant lot fee will be billed to the owner-of-record as of December 1st, according to County tax data.
9. Cost of tankage, components, etc., for each individual residence site and installation of sewer collection/reuse main lines, pump stations, and lot services is outside the scope of this agreement.
10. LPH agrees that changes made to TDEC regulations, to TPUC rules, or to Grainger County regulations after the date of this understanding are beyond the control of TWS and could likely cause a change to the proposed costs. Assuming that no regulation changes occur, the costs and fees presented in this understanding shall be valid for a period of not more than one (1) year from the date at the beginning of this understanding, regardless of the date the parties sign. Any contracts, or agreements, between the parties that are not signed within this one-year time limit will be revised to reflect costs in effect at that time.
11. In the event the property fails to be developed, LPH agrees to reimburse TWS for its time and actual costs incurred in connection with providing wastewater service to the development. This paragraph survives the termination of this agreement.

LPH acknowledges and accepts the aforementioned terms of agreement and intention.

Letter of Understanding  
Lighthouse Pointe Subdivision  
Lighthouse Pointe Homeowners Association, Inc.  
October 26, 2017

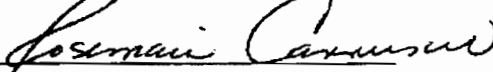
Tennessee Wastewater Systems, Inc.  
Utility – Charles Hyatt



Title: President

Date: 11-13-17

Lighthouse Pointe Homeowners Assn., Inc.  
Owner – Rosemarie Cannuscio



Title: Secretary

Date: 11/5/17

# EXHIBIT D



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 - Lighthouse Pointe**  
(applicant):

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

Official Contact:  
**Charles Hyatt**

Title or Position:  
**President**

Mailing Address:  
**849 Aviation Pkwy**

City:  
**Smyrna**

State:  
**TN**

Zip:  
**37167**

Phone number(s):  
**615-220-7200**

E-mail:

Optional Contact:  
**Brian Carter**

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**



<b>Facility Identification:</b>		<b>Existing Permit No.</b>	<b>N/A</b>
Facility Name:	Lighthouse Pointe	County:	Grainger
Facility Address or Location:	691 Baye Road, Grainger County, Tennessee	Latitude:	36.232208
		Longitude:	-83.433569
Name and distance to nearest receiving waters: Cherokee Reservoir – 370'			
If any other State or Federal Water/Wastewater Permits have been obtained for this site, list their permit numbers: <b>SOP-10047, SOP-16011</b>			
Name of company or governmental entity that will operate the permitted system: Tennessee Wastewater Systems			
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)? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> 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. Owner of property for the proposed treatment and drip irrigation site has committed to transfer the land to Tennessee Wastewater Systems in the event a State Operating Permit is issued for the proposed facility. The land will be transferred by warranty deed, or recorded plat.			
<b>Complete the following information explaining the entity type, number of design units, and daily design wastewater flow:</b>			
<u>Entity Type</u>	<u>Number of Design Units</u>		<u>Flow (gpd)</u>
<input type="checkbox"/> City, town or county	No. of connections:		
<input checked="" type="checkbox"/> Subdivision	No. of homes: 6	Avg. No. bedrooms per home: 3	1,800
<input type="checkbox"/> School	No. of students:	Size of cafeteria(s): No. of showers: 0	
<input type="checkbox"/> Apartment	No. of units:	No. units with Washer/Dryer hookups: No. units without W/D hookups:	
<input type="checkbox"/> Commercial Business	No. of employees:	Type of business:	
<input type="checkbox"/> Industry	No. of employees:	Product(s) manufactured:	
<input type="checkbox"/> Resort	No. of units:		
<input type="checkbox"/> Camp	No. of hookups:		
<input type="checkbox"/> RV Park	No. of hookups:	No. of dump stations:	
<input type="checkbox"/> Car Wash	No. of bays:		
<input type="checkbox"/> Other			
Describe the type and frequency of activities that result in wastewater generation. <b>Residential Subdivision</b>			

<b>Engineering Report (required for collection systems and/or land application treatment systems):</b>	<input type="checkbox"/> N/A
<input type="checkbox"/> Prepared in accordance with Rule 1200-4-2-.03 and Section 1.2 of the Tennessee Design Criteria (see website for more information) <input checked="" type="checkbox"/> Attached, or <input type="checkbox"/> Previously submitted and entitled: _____	
Approved? <input type="checkbox"/> Yes. Date: _____	<input type="checkbox"/> No

<b>Wastewater Collection System:</b>	<input type="checkbox"/> N/A
System type (i.e., gravity, low pressure, vacuum, combination, etc.): STEP/STEG small diameter sewer system	
System Description: STEP/STEG small diameter sewer system	
Describe methods to prevent and respond to any bypass of treatment or discharges (i.e., power failures, equipment failures, heavy rains, etc.): Tanks have a minimum of 24-36 hours storage in the STEP tank. Small generators can be connected to the pump stations and treatment system as necessary during an extended power outage.	
In the event of a system failure describe means of operator notification: Cellular telemetry notification	
List the <b>emergency</b> 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)? There are no grinder pumps. All notifications come to TWSI at 615-220-7200	
Approximate length of sewer (excluding private service lateral):	
Number/hp of lift stations: 0 /0	Number/hp of lift pumps 0/0
Number/volume of low pressure and or grinder pump tanks 0/0	
Number/volume septic tanks 6 / 1,500 gal	
Attach a schematic of the collection system. <input checked="" type="checkbox"/> Attached	
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	

<b>Land Application Treatment System:</b>	<input type="checkbox"/> N/A
Type of Land Application Treatment System: <input checked="" type="checkbox"/> Drip <input type="checkbox"/> Spray <input type="checkbox"/> Other, explain:	
Type of treatment facility preceding land application (recirculating media filters, lagoons, other, etc.): Aquapoint Bioclere Unit	
Attach a treatment schematic. <input checked="" type="checkbox"/> Attached	
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: Lighthouse Pointe Homeowners Association / John Hromco	
Developer address and phone number: 648 Tom Treece Rd, Morristown, TN 37814 (423) 839-1317	
For land application, list:	Proposed acreage involved: 0.23 +/- acres Inches/week gpd/sq.ft loading rate to be applied: 2.25 inches/week
Is wastewater disinfection proposed?	
<input type="checkbox"/> Yes Describe land application area access:	
<input checked="" type="checkbox"/> No Describe how access to the land application area will be restricted: Fence	
<b>Attach required additional Engineering Report Information (see website for more information)</b>	
<input checked="" type="checkbox"/> 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.	
<input checked="" type="checkbox"/> 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.	
<input checked="" type="checkbox"/> 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.	
<input checked="" type="checkbox"/> 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.	
<input checked="" type="checkbox"/> 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.	

**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.):

<b>Holding Ponds (for non-domestic wastewater only):</b>	<input checked="" type="checkbox"/> N/A
Pond use: <input type="checkbox"/> Recirculation <input type="checkbox"/> Sedimentation <input type="checkbox"/> Cooling <input type="checkbox"/> 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? <input type="checkbox"/> Yes <input type="checkbox"/> No	
If so, describe disposal plan:	
Is the pond ever dewatered? <input type="checkbox"/> Yes <input type="checkbox"/> No	
If so, describe the purpose for dewatering and procedures for disposal of wastewater and/or sludge:	
Is(are) the pond(s) aerated? <input type="checkbox"/> Yes <input type="checkbox"/> No	
Volume of pond(s):	gal. 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.)? <input type="checkbox"/> Yes <input type="checkbox"/> No	
Describe the liner material (if soil liner is used give the compaction specifications):	
Is there an emergency overflow structure? <input type="checkbox"/> Yes <input type="checkbox"/> No	
<i>If so, provide a design drawing of structure.</i>	
Are monitoring wells or lysimeters installed near or around the pond(s)? <input type="checkbox"/> Yes <input type="checkbox"/> No	
<i>If so, provide location information and describe monitoring protocols (attach additional sheets as necessary):</i>	

<b>Mobile Wash Operations:</b>		<input checked="" type="checkbox"/> N/A
<input type="checkbox"/> Individual Operator <span style="margin-left: 200px;"><input type="checkbox"/> Fleet Operation Operator</span>		
<b>Indicate the type of equipment, vehicle, or structure to be washed during normal operations (check all that apply):</b>		
<input type="checkbox"/> Cars <input type="checkbox"/> Trucks <input type="checkbox"/> Trailers (Interior washing of dump-trailers, or tanks, is prohibited.) <input type="checkbox"/> Other (describe):	<input type="checkbox"/> Parking Lot(s):          sq. ft. <input type="checkbox"/> Windows:                  sq. ft. <input type="checkbox"/> Structures (describe):	
<b>Wash operations take place at (check all that apply):</b>		
<input type="checkbox"/> Car sales lot(s) <input type="checkbox"/> Private industry lot(s) <input type="checkbox"/> County(ies), list:	<input type="checkbox"/> Public parking lot(s) <input type="checkbox"/> Private property(ies) <input type="checkbox"/> Statewide	
<b>Wash equipment description:</b>		
<input type="checkbox"/> Truck mounted <input type="checkbox"/> Rinse tank size(s) (gal.): <input type="checkbox"/> Collection tank size(s) (gal.):	<input type="checkbox"/> Trailer mounted <input type="checkbox"/> Mixed tanks size(s) (gal.): Number of tanks per vehicle:	
Pressure washer:          psi (rated)          gpm (rated) <input type="checkbox"/> gas powered <input type="checkbox"/> 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? <input type="checkbox"/> Yes <input type="checkbox"/> No		
<b>Describe all soaps, detergents, or other chemicals used in the wash operation (attach additional sheets as necessary):</b>		
Chemical name:	Manufacturer:	Primary CAS No. or Product No.

## APPLICATION FOR A STATE OPERATION PERMIT (SOP) INSTRUCTIONS

**Purpose of this form** A completed SOP application must be submitted to obtain SOP coverage. This permit is required to operate a sewage, industrial waste or other waste collection and/or treatment system that does not have a point source discharge to any surface or subsurface waters. This form must be submitted at least 180 days before starting any new activity, before an existing permit expires, or when renewing a permit.

**Complete the form** Type or print clearly, using black or blue ink; not markers or pencil. Answer each item or enter "N/A," for not applicable. If you need additional space, attach a separate piece of paper to the SOP application. Applicants may be required to submit engineering reports, plans and specifications. Contact the division for the applicable items, or visit the Division of Water Pollution Control world wide web site at: <http://www.tn.gov/environment/wpc> for more information. **The application will be considered incomplete without supplying all of the required information, Engineering Reports, and an original signature.**

**Permittee Identification/Facility Identification** Describe and locate the project, use the legal or official name of the facility or site. Provide the latitude and longitude (expressed in decimal degrees) of the center of the site, which can be located on USGS quadrangle maps. The quadrangle maps can be obtained at 1-800-USA-MAPS, or at the Census Bureau world wide web site: <http://www.census.gov/cgi-bin/gazetteer>. Attach a copy of a portion of a 7.5 minute quad map, showing location of site, with boundaries at least one mile outside the site boundaries. If business is mobile give the owner of operations' home, or business office address, and list all current areas of operation by city and county.

**Wastewater Collection System** These types of systems require engineering reports, refer to the website (<http://www.tn.gov/environment/wpc/>) for more information.

**Land Application Treatment System** These types of systems require engineering reports, refer to the website (<http://www.tn.gov/environment/wpc/>) for more information. Public access to the treatment area must be restricted, if disinfection is not part of the treatment. Applicants completing this section of the application must also complete the Wastewater Collection System section.

**Pump and Haul** These types of systems may require engineering reports, refer to the website (<http://www.tn.gov/environment/wpc/>) for more information.

**Holding Ponds** Given that annual rainfall onto open ponds exceeds annual evaporation (in Tennessee), the permittee must develop a written plan (to be retained on site and be available to the division upon request) that addresses how excess rainfall will be disposed of in compliance with the no discharge requirement of this permit. Treatment ponds are not to be used for stormwater treatment or storage. All new and existing point source industrial stormwater discharges associated with industrial activity require coverage under the Tennessee industrial stormwater multi-sector general permit TMSP, refer to the website (<http://www.tn.gov/environment/permits/stmrh2o.shtml>) for more information. Describe the system for re-routing surface runoff away from ponds in the rainfall disposal plan.

**Mobile Wash Operations** Indicate whether the operation is run by an individual or a corporation with a fleet of vehicles equipped to wash and collect waste waters. If a corporation, indicate the home office as the "Official Contact". Indicate if operations take place at specific sites and list those counties that apply. Note that this permit covers operations for all of Tennessee. Operations indicated as "statewide" generally apply as a fleet type operation and each office location shall be individually permitted. Equipment may be truck or trailer-mounted, or both, indicate all that applies. Soaps, detergents, and other chemicals used should be non-toxic and biodegradable. All "chemically enhanced" (soaps, detergents, and other chemicals) waste-wash waters must be collected for proper disposal. If no chemically enhanced washwaters are used, clear-wash waters may travel by sheet flow to a gravel or grassy area where there is no opportunity to enter waters of the

**APPLICATION FOR A STATE OPERATION PERMIT (SOP)**  
**INSTRUCTIONS - CONTINUED**

state. There should be no discharge to a storm water inlet, ditch, conveyance, stream, etc. If you are unsure of your wash area drainage, contact the area Environmental Field Office (EFO) prior to setting up your wash operation.

**Fees** There is no application fee for this permit. An annual maintenance fee is required and you will be invoiced at a later date.

**Submitting the form and obtaining more information** Note that this form must be signed by the chief executive officer, owner, or highest ranking elected official. For more information, contact your local EFO at the toll-free number 1-888-891-8332 (TDEC). Submit three complete applications (keep a copy for your records) to the appropriate EFO for the county(ies) where the facility is located, addressed to **Attention: WPC, Permit Section Manager**.

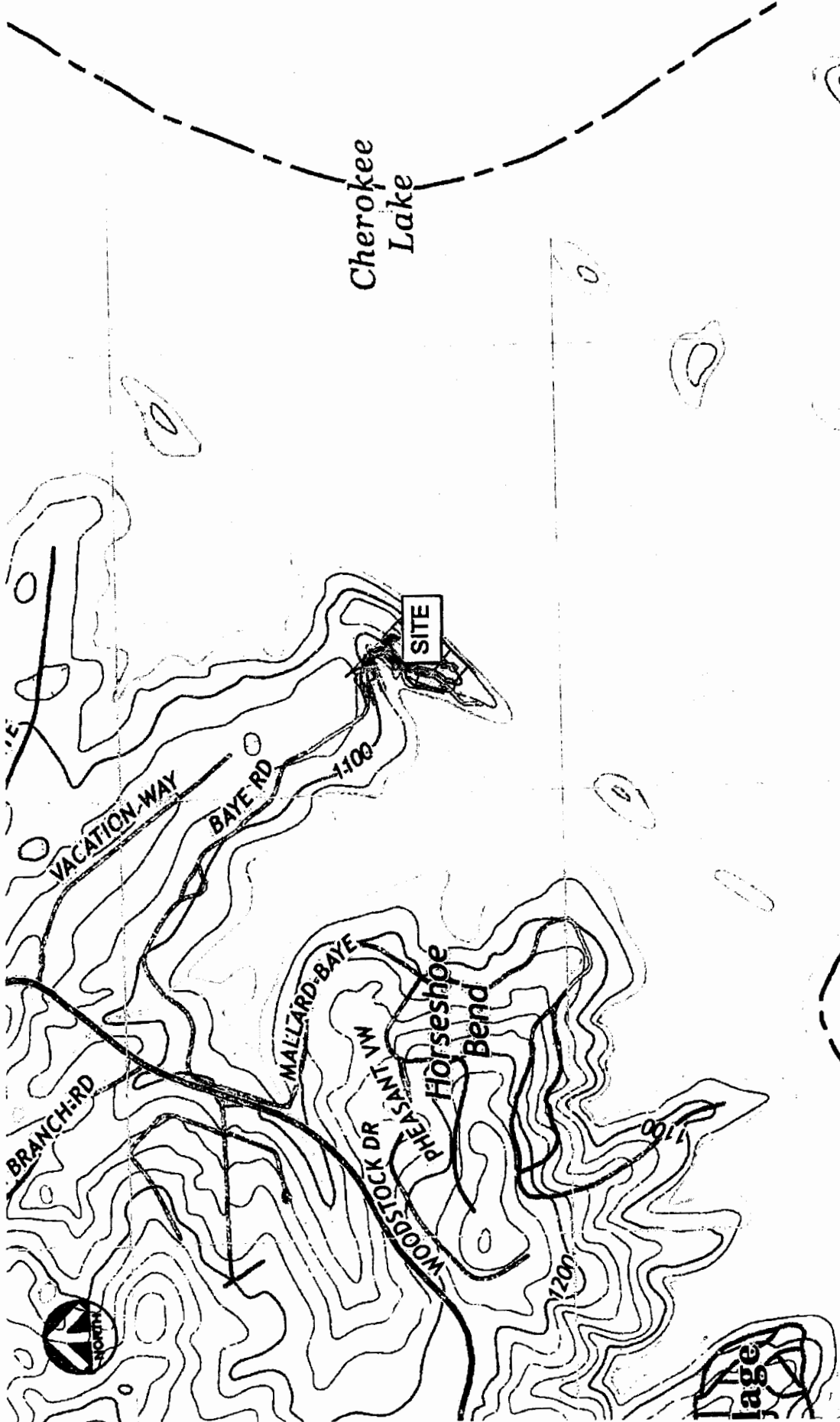
EFO	Street Address	Zip Code	EFO	Street Address	Zip Code
Memphis	2510 Mt. Moriah Road STE E-645	38115-1520	Cookeville	1221 South Willow Ave.	38506
Jackson	1625 Hollywood Dr	38305-4316	Chattanooga	540 McCallie Avenue STE 550	37402-2013
Nashville	711 R S Gass Boulevard	37243	Knoxville	3711 Middlebrook Pike	37921
Columbia	2484 Park Plus Drive	38401	Johnson City	2305 Silverdale Road	37601

Upon receipt of the required items, the division conducts a review of the material, and the applicant is notified of any deficiencies. When all the deficiencies have been corrected, the division makes a determination of whether to publish a draft permit. When a draft permit is generated, a public notice is issued and published in a local newspaper. The draft permit is then reviewed by the applicant, and division field staff. The general public also has an opportunity to review the permit. Based on public response, a public hearing may be held. After considering public comments and a final review, the permit may be issued. The entire process normally takes from five (5) to nine (9) months. Permits are normally valid for five (5) years, except those for pump and haul systems, which are generally valid for one (1) year.

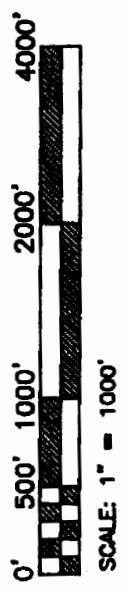
The division has the right to inspect a facility when deemed necessary. In addition, the division has the right to revoke or suspend any permit for violation of permit conditions or any other provisions of the Tennessee Water Quality Control Act and other water pollution control rules.

The division is responsible for regulating any activity, which involves a potential discharge in order to protect waters of the State from pollution and to maintain the highest possible standards in water quality.



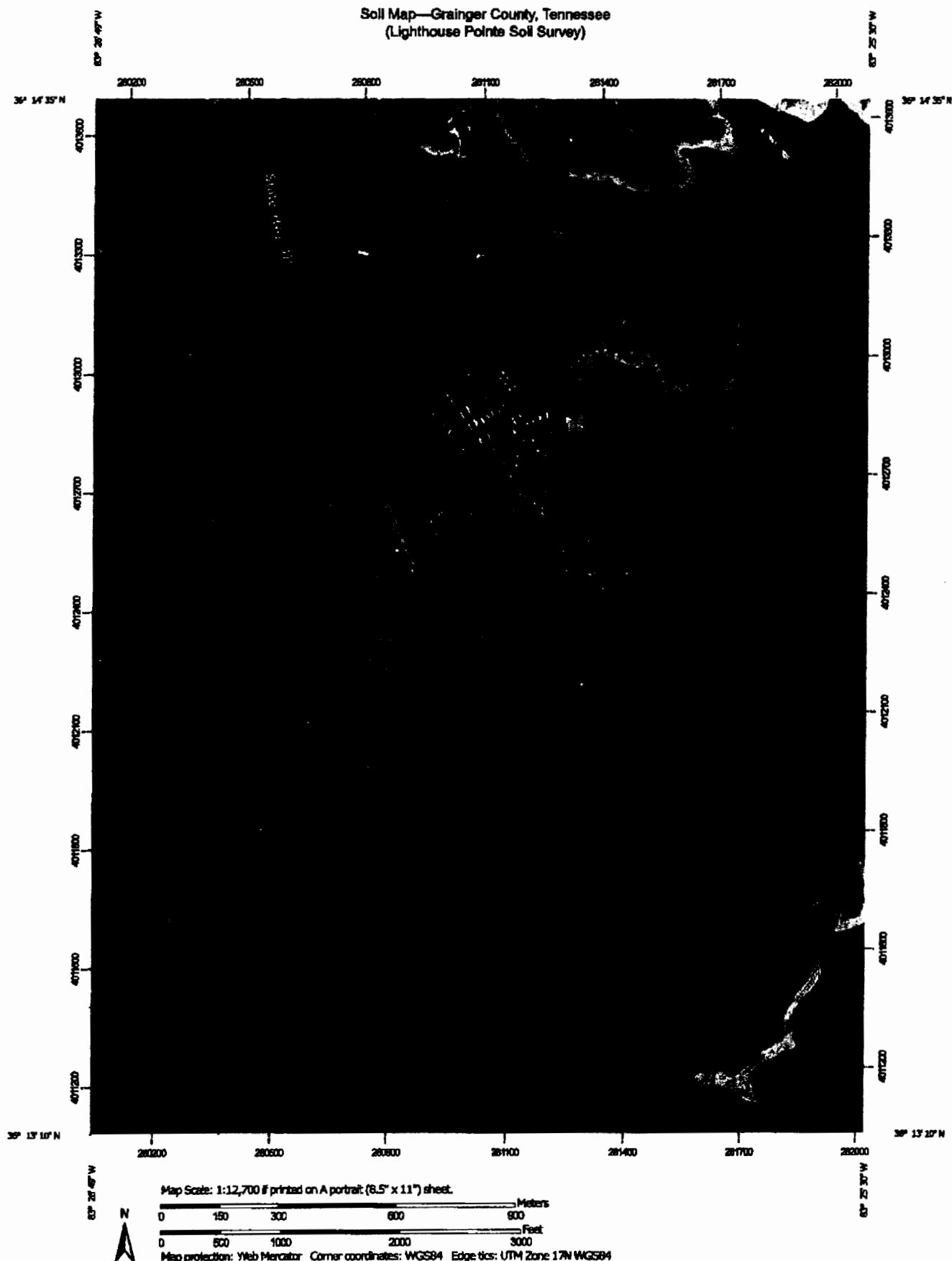


TALBOTT QUADRANGLE



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SOLUTIONS GROUP

# Soil Map—Grainger County, Tennessee (Lighthouse Pointe Soil Survey)



**Soil Map—Grainger County, Tennessee  
(Lighthouse Pointe Soil Survey)**

### MAP LEGEND

**Area of Interest (AOI)**

 Area of Interest (AOI)

**Soils**

 Soil Map Unit Polygons

 Soil Map Unit Lines

 Soil Map Unit Points

**Special Point Features**

 Blowout

 Borrow Pit

 Clay Spot

 Closed Depression

 Gravel Pit

 Gravelly Spot

 Landfill

 Lava Flow

 Marsh or swamp

 Mine or Quarry

 Miscellaneous Water

 Perennial Water

 Rock Outcrop

 Saline Spot

 Sandy Spot

 Severely Eroded Spot

 Sinkhole

 Slide or Slip

 Sodic Spot



Soil Area



Stony Spot



Very Stony Spot



Wet Spot



Other



Special Line Features

**Water Features**

 Streams and Canals

**Transportation**

 Rails

 Interstate Highways

 US Routes

 Major Roads

 Local Roads

**Background**

 Aerial Photography

### MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:24,000.

**Warning:** Soil Map may not be valid at this scale.

Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed scale.

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service

Web Soil Survey URL:

Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Grainger County, Tennessee

Survey Area Data: Version 11, Oct 4, 2017

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: Jun 27, 2012—Mar 23, 2017

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

## Map Unit Legend

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
DeC2	Dewey silt loam, 6 to 15 percent slopes, eroded	15.3	3.4%
DiD	Dewey-Etowah complex, 12 to 20 percent slopes	185.8	41.3%
MnD	Minvale loam, 12 to 20 percent slopes	28.6	6.4%
MoC	Montevallo channery silt loam, 5 to 12 percent slopes	0.3	0.1%
MoD	Montevallo channery silt loam, 12 to 20 percent slopes	2.4	0.5%
TmE	Townley-Montevallo complex, 20 to 35 percent slopes	20.1	4.5%
W	Water	197.1	43.8%
<b>Totals for Area of Interest</b>		<b>449.7</b>	<b>100.0%</b>

## **AREA OF REVIEW (AOR)**

***Groundwater uses within the AOR (past & present):*** Past and present groundwater uses within the AOR include residential and agricultural supply from private wells.

***Groundwater General Description:*** The proposed site is a mix of sloping Montevallo and gently sloping Dewey silt loam type soil. The attached maps indicate the proposed Lighthouse Pointe wastewater treatment area drainage flow path is capable of moving in the any direction away from the property. Generally, groundwater should move southerly towards Cherokee Lake.

***Population and Cultural Development:*** The majority of the Area of Review is primarily lake-front residential or commercial campsite. Typically, small residential subdivisions have been developed.

***Nature of Fluid:*** Lighthouse Pointe Drip Dispersal will have an approximate peak design flow of 1,800 GPD of typical residential sanitary wastewater.

***Public Water Supply:*** Bean Station Utility supplies public drinking water within the AOR.

Bean Station Utility  
581 Broadway Drive  
P.O. Box 520  
Bean Station, Tennessee 37708  
LUD Information (865) 993-2326

***Description of System:*** Wastewater from 6 Equivalent Dwelling Units (EDUs) will first be pumped from numerous 1,500-gal water tight septic tanks. Filtered Septic Tank Effluent exits from the septic tanks via a small diameter gravity/pressure collection line along the roadways and lot lines to a solid separation tank. An equalization tank is utilized to further separate fluid wastewater from solid effluent. Wastewater is then drawn from the equalization chamber and treated using a Bioclere water treatment unit. Treated wastewater exiting the Bioclere unit will be kept in a 5,000-gallon storage tank before final filtration and reuse. Approximately 1,800 GPD of treated wastewater will be pumped from the storage tank, filtered through Arkal disc filters, then distributed to HDPE drip lines with pressure compensating emitters. The drip lines are to be installed on 5-foot centers along the contours with the emitters spaced at 2-foot centers along the drip lines. Drip lines are plowed into the soils that have been approved by a certified soil scientist and placed at an approximate depth of 7-8 inches below the ground surface. Distribution of the treated wastewater is managed through solenoid valves and controlled by a programmable PLC.

[illegible][illegible]



# EXHIBIT E



# STATE OF TENNESSEE

COUNTY OF Rutherford

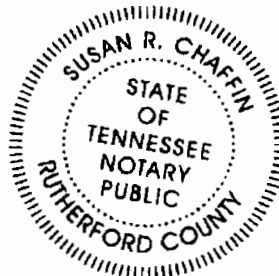
We the undersigned Charles R. Hyatt  
and \_\_\_\_\_  
of Tennessee Wastewater Systems, Inc.

on our oath do severally say that the foregoing return has been prepared,  
under our direction, from the original books, papers and records of said  
utility; that we have carefully examined the same, and declare the same to be  
a correct statement of the business and affairs of said utility for the period  
covered by the return in respect to each and every matter and thing therein  
set forth, to the best of our knowledge, information and belief.

Charles R. Hyatt  
(Chief Officer)

CRH  
(Officer in charge of accounts)

Subscribed and sworn to before me this...  
day of February 3, 2017  
Notary Public Susan R. Chaffin  
My commission will expire 02/20/2018  
(Seal)



## TABLE OF CONTENTS

## AFFIDAVIT - First page of this Report

## FINANCIAL SECTION

6	Identification and ownership.....	F-2
7	Officers & Managers.....	F-2
8	Income Statement.....	F-3
9	Comparative Balance Sheet.....	F-4
10	Net Utility Plant.....	F-5
11	Accumulated Depreciation & Amortization of Utility Plant.....	F-5
12	Capital Stock.....	F-6
13	Retained Earnings.....	F-6
14	Proprietary Capital.....	F-6
15	Long-Term Debt.....	F-6
16	Taxes Accrued.....	F-7
17	Payments For Services Rendered By Other Than Employees.....	F-7
18	Contributions In Aid Of Construction.....	F-8
19	Additions To Contributions In Aid Of Construction (Credits).....	F-8

## WATER SECTION

Water Utility Plant Accounts.....	W-1
Analysis Of Accumulated Depreciation By Primary Account...	W-2
Water Operation & Maintenance Expense.....	W-3
Water Customers.....	W-3
Pumping & Purchased Water Statistics.....	W-4
Sales For Resale.....	W-4
Wells & Well Pumps.....	W-5
Reservoirs.....	W-5
High Service Pumping.....	W-5
Source Of Supply.....	W-6
Water Treatment Facilities.....	W-6
Other Water System Information.....	W-6

## SEWER SECTION

Sewer Utility Plant Accounts.....	S-1
Analysis Of Accumulated Depreciation By Primary Account...	S-2
Sewer Operation & Maintenance Expense.....	S-3
Sewer Customers.....	S-3
Pumping Equipment.....	S-4
Service Connections.....	S-4
Collecting Mains, Force Mains, & Manholes.....	S-4
Treatment Plant.....	S-5
Master Lift Station Pumps.....	S-5
Other Sewer System Information.....	S-5

## SUPPLEMENTAL FINANCIAL DATA

Rate Base.....	SU-1
Adjusted Net Operating Income.....	SU-1

### IDENTIFICATION & OWNERSHIP

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OWNERSHIP	
1	OWNER
2	OWNER
3	OWNER
4	OWNER
5	OWNER
6	OWNER
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91	OWNER
92	OWNER
93	OWNER
94	OWNER
95	OWNER
96	OWNER
97	OWNER
98	OWNER
99	OWNER
100	OWNER

Report every corporation or individual owning or holding directly or indirectly 5 percent or more of the voting securities.

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[illegible]

Name of Respondent		This Report Is:		Date of Report	Year of Report
Tennessee Wastewater Systems, Inc.		(1) <input checked="" type="checkbox"/> An Original		(Mo, Da, Yr)	
		(2) <input type="checkbox"/> A Resubmission		2/3/2017	41273
<b>INCOME STATEMENT</b>					
<b>Account Name</b>	<b>Ref</b>	<b>Water</b>	<b>Sewer</b>	<b>Other</b>	<b>Total</b>
<b>(a)</b>	<b>(b)</b>	<b>(c)</b>	<b>(d)</b>	<b>(e)</b>	<b>(f)</b>
<b>Gross Revenue:</b>					
Residential		-	1,686,408	-	1,686,408
Commercial		-	-	-	-
Industrial		-	-	-	-
Multi-Family		-	-	-	-
Empty Lot Fees		-	198,628	-	198,628
Other (Please Specify)		-	-	-	-
Other (Please Specify)		-	-	-	-
Other (Please Specify)		-	-	-	-
<b>Total Gross Revenue</b>			<b>1,885,036</b>		<b>1,885,036</b>
<b>Operation &amp; Maint. Expense</b>	W3/S3	-	1,735,635	-	1,735,635
Depreciation Expense	F-5	-	111,639	-	111,639
Amortization Expense		-	-	-	-
Interest Expense		-	13,238	-	13,238
Other Expense (Please Specify)		-	-	-	-
Taxes Other Than Income	F-7	-	156,129	-	156,129
Income Taxes	F-7	-	-	-	-
<b>Total Operating Expenses</b>			<b>2,016,641</b>		<b>2,016,641</b>
<b>Net Operating Income</b>			<b>(131,605)</b>		<b>(131,605)</b>
<b>Other Income:</b>					
Nonutility Income		-	151,030	-	151,030
Grain Revenue		-	3,655	-	3,655
Other (Please Specify)		-	-	-	-
Other (Please Specify)		-	-	-	-
Other (Please Specify)		-	-	-	-
<b>Total Other Income</b>			<b>154,685</b>		<b>154,685</b>
<b>Other Deductions:</b>					
Misc. Nonutility Expenses		-	29,250	-	29,250
Other (Please Specify)		-	-	-	-
Other (Please Specify)		-	-	-	-
Other (Please Specify)		-	-	-	-
Other (Please Specify)		-	-	-	-
<b>Total Other Deductions</b>			<b>29,250</b>		<b>29,250</b>
<b>Net Income</b>			<b>(6,170)</b>		<b>(6,170)</b>

<b>Name of Respondent</b>	<b>This Report is:</b>	<b>Date of Report</b>	<b>Year of Report</b>
Tennessee Wastewater Systems, Inc.	(1) <u>X</u> An Original	(Mo, Da, Yr)	
	(2) A Resubmission	2/3/2017	41273

**COMPARATIVE BALANCE SHEET**

<b>Account Name (a)</b>	<b>Ref Page (b)</b>	<b>Current Year (c)</b>	<b>Previous Year (d)</b>
<b>ASSETS</b>			
Utility Plant in Service (101-105)	F5/W1/S1	23,057,126	21,806,729
Accum. Depreciation and Amortization (108)	F5/W2/S2	7,892,199	7,083,310
Net Utility Plant		15,164,927	14,723,419
Cash		291,287	303,904
Customer Accounts Receivable (141)		577,578	597,277
Accrued Assets		16,055	15,915
Inventory		109,785	0
Other Assets (Please Specify)		0	0
Other Assets (Please Specify)		0	0
Total Assets		16,159,632	15,640,515
<b>LIABILITIES AND CAPITAL</b>			
Common Stock Issued (201)	F-6	1,000	1,000
Preferred Stock Issued (204)	F-6	0	0
Other Paid-In Capital (211)		0	0
Retained Earnings (215)	F-6	346,557	352,728
Capital (Proprietary & Partnership-218)	F-6	0	0
Total Capital		347,557	353,728
Long-Term Debt (224)	F-6	0	0
Accounts Payable (231)		225,467	111,836
Notes Payable (232)		225,686	212,690
Customer Deposits (235)		0	0
Accrued Taxes (236)		0	48,000
Reserves		38,947	426,636
Intercompany		414,910	18,589
Payroll Accruals		532	1,327
Other Liabilities (Please Specify)		0	0
Other Liabilities (Please Specify)		0	0
Advances for Construction		0	0
Contributions In Aid Of Const.-Net (271-2)	F-8	14,906,533	14,467,709
Total Liabilities		15,812,075	15,286,787
Total Liabilities & Capital		16,159,632	15,640,515

Name of Respondent Tennessee Wastewater Systems, Inc.		This Report is: (1) <input checked="" type="checkbox"/> An Original (2) A Resubmission		Date of Report (Mo, Da, Yr) 2/3/2017	Year of Report 41273
<b>NET UTILITY PLANT</b>					
<b>Plant Accounts (101-107) Inclusive (a)</b>		<b>Water (c)</b>	<b>Sewer (d)</b>	<b>Other (e)</b>	<b>Total (f)</b>
Utility Plant in Service (101)		0	23,057,126	0	23,057,126
Construction Work in Progress (105)		0	0	0	0
Other (Please Specify)		0	0	0	0
Other (Please Specify)		0	0	0	0
Other (Please Specify)		0	0	0	0
Other (Please Specify)		0	0	0	0
Other (Please Specify)		0	0	0	0
Other (Please Specify)		0	0	0	0
<b>Total Utility Plant</b>		<b>0</b>	<b>23,057,126</b>	<b>0</b>	<b>23,057,126</b>
<b>ACCUMULATED DEPRECIATION AND AMORTIZATION OF UTILITY PLANT</b>					
<b>Account 108 (a)</b>		<b>Water (c)</b>	<b>Sewer (d)</b>	<b>Other (e)</b>	<b>Total (f)</b>
<b>Balance First of Year</b>		0	7,083,310	0	7,083,310
<b>Credits During Year:</b>					
Accruals charged to Depreciation Account		0	111,639	0	111,639
Salvage		0	0	0	0
Other Credits (Please Specify):		0	697,250	0	697,250
Other Credits (Please Specify):		0	0	0	0
Other Credits (Please Specify):		0	0	0	0
Other Credits (Please Specify):		0	0	0	0
<b>Total Credits</b>		<b>0</b>	<b>808,889</b>	<b>0</b>	<b>808,889</b>
<b>Debits During Year:</b>					
Book/Historical Cost of Plant Retired		0	0	0	0
Cost of Removal		0	0	0	0
Other Debits (Please Specify):		0	0	0	0
Other Debits (Please Specify):		0	0	0	0
Other Debits (Please Specify):		0	0	0	0
Other Debits (Please Specify):		0	0	0	0
<b>Total Debits</b>		<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>Balance End of Year</b>		<b>0</b>	<b>7,892,199</b>	<b>0</b>	<b>7,892,199</b>

<b>Name of Respondent</b> Tennessee Wastewater Systems, Inc.	<b>This Report is:</b> (1) <input checked="" type="checkbox"/> An Original (2) <input type="checkbox"/> A Resubmission	<b>Date of Report</b> (Mo, Da, Yr) 2/3/2017	<b>Year of Report</b> 41273
<b>CAPITAL STOCK (201 - 204)</b>			
	<b>Common Stock</b> (b)	<b>Preferred Stock</b> (c)	
(a)			
Par or stated value per share	1	-	
Shares Authorized	-	-	
Shares issued and outstanding	1,000	-	
Total par value of stock issued	1,000	-	
Dividends declared per share for year	0	0	
<b>RETAINED EARNINGS (215)</b>			
	<b>Appropriated</b> (b)	<b>Unappropriated</b> (c)	
(a)			
Balance first of year	-	352,728	
Changes during year NET INCOME/(NET LOSS)	-	(6,171)	
Changes during year (Please Specify)	-	-	
Changes during year (Please Specify)	-	-	
Changes during year (Please Specify)	-	-	
Changes during year (Please Specify)	-	-	
Changes during year (Please Specify)	-	-	
Balance end of year	0	346,557	
<b>PROPRIETARY CAPITAL (218)</b>			
	<b>Proprietor</b> (b)	<b>Partner</b> (c)	
(a)			
Balance first of year	-	-	
Changes during year (Please Specify)	-	-	
Changes during year (Please Specify)	-	-	
Changes during year (Please Specify)	-	-	
Changes during year (Please Specify)	-	-	
Changes during year (Please Specify)	-	-	
Changes during year (Please Specify)	-	-	
Balance end of year	0	0	
<b>LONG-TERM DEBT (224)</b>			
	<b>Interest Rate</b> (b)	<b>Year End Balance</b> (c)	
(a)			
Debt #1	0.00%	-	
Debt #2	0.00%	-	
Debt #3	0.00%	-	
Debt #4	0.00%	-	
Debt #5	0.00%	-	
Debt #6	0.00%	-	
Debt #7	0.00%	-	
Debt #8	0.00%	-	
Debt #9	0.00%	-	
Debt #10	0.00%	-	
Debt #11	0.00%	-	
Debt #12	0.00%	-	
<b>Total Long-Term Debt</b>		0	

<b>Name of Respondent</b> Tennessee Wastewater Systems, Inc.		<b>This Report Is:</b> (1) <input checked="" type="checkbox"/> An Original (2) <input type="checkbox"/> A Resubmission		<b>Date of Report</b> (Mo, Da, Yr) 2/3/2017	<b>Year of Report</b> 2/3/2017
<b>SEWER UTILITY PLANT ACCOUNTS</b>					
<b>Acct No.</b> <b>(a)</b>	<b>Account Name</b> <b>(b)</b>	<b>Previous Year</b> <b>(c)</b>	<b>Additions</b> <b>(d)</b>	<b>Retirements</b> <b>(e)</b>	<b>Current Year</b> <b>(f)</b>
351	Organization	-	-	-	-
352	Franchises	-	-	-	-
353	Land & Land Rights	2,667,264	88,510	-	2,755,774
354	Structures & Improvements	-	-	-	-
360	Collection Sewers - Force	210,000	-	-	210,000
361	Collection Sewers - Gravity	2,371,714	-	-	2,371,714
362	Special Collecting Structures	-	-	-	-
363	Services to Customers	-	-	-	-
364	Flow Measuring Devices	-	-	-	-
365	Flow Measuring Installations	-	-	-	-
370	Receiving Wells	-	-	-	-
371	Pumping Equipment	-	-	-	-
380	Treatment & Disposal Equipment	16,262,230	1,047,565	-	17,309,795
381	Plant Sewers	-	-	-	-
382	Outfall Sewer Lines	-	-	-	-
389	Other Plant & Miscellaneous Equipment	-	-	-	-
390	Office Furniture & Equipment	114,533	33,500	-	148,033
391	Transportation Equipment	180,988	80,822	-	261,810
392	Stores Equipment	-	-	-	-
393	Tools, Shop & Garage Equipment	-	-	-	-
394	Laboratory Equipment	-	-	-	-
395	Power Operated Equipment	-	-	-	-
396	Communication Equipment	-	-	-	-
397	Miscellaneous Equipment	-	-	-	-
398	Other Tangible Plant	-	-	-	-
	<b>Total Sewer Plant</b>	<b>21,268,722</b>	<b>1,162,897</b>	<b>-</b>	<b>22,431,619</b>



<b>Name of Respondent</b> Tennessee Wastewater Systems, Inc.	<b>This Report is:</b> (1) <input checked="" type="checkbox"/> An Original (2) <input type="checkbox"/> A Resubmission	<b>Date of Report</b> (Mo, Da, Yr) 2/3/2017	<b>Year of Report</b> 41273
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**ANALYSIS OF ACCUMULATED DEPRECIATION BY PRIMARY ACCOUNT - SEWER**

<b>Account Number</b> <b>(a)</b>	<b>Account</b> <b>(b)</b>	<b>Average Service Life in Years</b> <b>(c)</b>	<b>Average Salvage Value in Percent</b> <b>(d)</b>	<b>Depreciation Rate Applied*</b> <b>(e)</b>	<b>Accumulated Depreciation Balance Previous Year</b> <b>(f)</b>	<b>Debits</b> <b>(g)</b>	<b>Credits</b> <b>(h)</b>	<b>Accumulated Depreciation Balance End of Year</b> <b>(i)</b>
354	Structures & Improvements	-	0.00%	0.00%	-	-	-	-
360	Collection Sewers - Force	50	0.00%	0.00%	29,411	-	4,200	33,611
361	Collection Sewers - Gravity	50	0.00%	0.00%	542,514	-	47,434	589,948
362	Special Collecting Structures	-	0.00%	0.00%	-	-	-	-
363	Services to Customers	-	0.00%	0.00%	-	-	-	-
364	Flow Measuring Devices	-	0.00%	0.00%	-	-	-	-
365	Flow Measuring Installations	-	0.00%	0.00%	-	-	-	-
370	Receiving Wells	-	0.00%	0.00%	-	-	-	-
371	Pumping Equipment	-	0.00%	0.00%	-	-	-	-
380	Treatment & Disposal Equipment	26	0.00%	0.00%	6,422,658	-	645,616	7,068,274
381	Plant Sewers	-	0.00%	0.00%	-	-	-	-
382	Outfall Sewer Lines	-	0.00%	0.00%	-	-	-	-
389	Other Plant & Miscellaneous Equipment	-	0.00%	0.00%	-	-	-	-
390	Office Furniture & Equipment	7	0.00%	0.00%	30,021	-	48,458	78,479
391	Transportation Equipment	5	0.00%	0.00%	58,706	-	63,181	121,887
392	Stores Equipment	-	0.00%	0.00%	-	-	-	-
393	Tools, Shop & Garage Equipment	-	0.00%	0.00%	-	-	-	-
394	Laboratory Equipment	-	0.00%	0.00%	-	-	-	-
395	Power Operated Equipment	-	0.00%	0.00%	-	-	-	-
396	Communication Equipment	-	0.00%	0.00%	-	-	-	-
397	Miscellaneous Equipment	-	0.00%	0.00%	-	-	-	-
398	Other Tangible Plant	-	0.00%	0.00%	-	-	-	-
	<b>Totals</b>				<b>7,684,330</b>	<b>0</b>	<b>881,439</b>	<b>7,892,199</b>

\*State basis used for percentages used in schedule.

Name of Respondent		This Report is:	Date of Report	Year of Report
Tennessee Wastewater Systems, Inc.		(1) <input checked="" type="checkbox"/> An Original	(Mo, Da, Yr)	
		(2) <input type="checkbox"/> A Resubmission	2/3/2017	41273
SEWER OPERATION & MAINTENANCE EXPENSE				N/A
Acct No.	Description (a)	Amount (b)		
701	Salaries & Wages - Employees	451,364		
703	Salaries & Wages - Officers, Directors & Stockholders	-		
704	Employee Pensions & Benefits	24,338		
710	Purchased Sewage Treatment	107,924		
711	Sludge Removal Expense	-		
715	Purchased Power	132,977		
716	Fuel for Power Production	-		
718	Chemicals	3,882		
720	Materials & Supplies	67,970		
730	Contractual Services	341,477		
740	Rents	60,945		
750	Transportation Expense	67,541		
755	Insurance Expense	17,744		
765	Regulatory Commission Expense	10,284		
770	Bad Debt Expense	-		
775	Miscellaneous Expenses	449,189		
Total Sewer Operation & Maintenance Expense		1,725,635		

SEWER CUSTOMERS				
Description (a)	Customers First of Year (b)	Additions (c)	Disconnections (d)	Customers End of Year (e)
Metered Customers:				
5/8 Inch	-	-	-	-
3/4 Inch	-	-	-	-
1.0 Inch	-	-	-	-
1.5 Inch	-	-	-	-
2.0 Inch	-	-	-	-
2.5 Inch	-	-	-	-
3.0 Inch	-	-	-	-
4.0 Inch	-	-	-	-
6.0 Inch	-	-	-	-
8.0 Inch	-	-	-	-
Other (Please Specify)	-	-	-	-
Other (Please Specify)	-	-	-	-
Other (Please Specify)	-	-	-	-
Unmetered Customers	2,746	129	-	2,875
Total Customers	2,746	129	0	2,875

<b>Name of Respondent</b> Tennessee Wastewater Systems, Inc.		<b>This Report is:</b> (1) <input checked="" type="checkbox"/> An Original (2) <input type="checkbox"/> A Resubmission		<b>Date of Report</b> (Mo, Da, Yr) 2/3/2017	<b>Year of Report</b> 41273
<b>PUMPING EQUIPMENT</b>					
<b>Description***</b> (a)		<b>Lift Station</b> #1 (b)	<b>Lift Station</b> #2 (c)	<b>Lift Station</b> #3 (d)	<b>Lift Station</b> #4 (e)
Make, Model, or Type of Pump					
Year Installed					
Rated Capacity (GPM)					
Size (HP)					
Power (Electric/Mechanical)					
Make, Model or Type of Motor					
<b>SERVICE CONNECTIONS</b>					
<b>Description***</b> (a)		<b>Service Connection</b> #1 (b)	<b>Service Connection</b> #2 (c)	<b>Service Connection</b> #3 (d)	<b>Service Connection</b> #4 (e)
Size (Inches)					
Type (PVC, VCP, etc)					
Average Length (Feet)					
Connections-Beginning of Year		-	-	-	-
Connections-Added during Year		-	-	-	-
Connection-Retired during Year		-	-	-	-
Connections-End of Year		0	0	0	0
Number of Inactive Connections		-	-	-	-
<b>COLLECTING MAINS, FORCE MAINS, &amp; MANHOLES</b>					
<b>Description</b> (a)		<b>Collecting Mains</b> (b)	<b>Force Mains</b> (c)	<b>Manholes</b> (d)	
Size (Inches)					
Type					
Length/Number-Beginning of Year		-	-	-	
Length/Number-Added During Year		-	-	-	
Length/Number-Retired During Year		-	-	-	
Length/Number-End of Year		0	0	0	

\*\*\*If more space is needed to list equipment please attach additional sheets as necessary.

<b>Name of Respondent</b> Tennessee Wastewater Systems, Inc.	<b>This Report is:</b> (1) <u>X</u> An Original (2) A Resubmission		<b>Date of Report</b> (Mo, Da, Yr) 2/3/2017	<b>Year of Report</b> 41273
<b>TREATMENT PLANT</b>				
<b>Description***</b> (a)	<b>Treatment Facility</b> #1 (b)	<b>Treatment Facility</b> #2 (c)	<b>Treatment Facility</b> #3 (d)	<b>Treatment Facility</b> #4 (e)
Manufacturer				
Type				
Steel or Concrete				
Total Capacity				
Average Daily Flow				
Effluent Disposal				
Total Gallons of Sewage Treated				
<b>MASTER LIFT STATION PUMPS</b>				
<b>Description***</b> (a)	<b>Master Pump</b> #1 (b)	<b>Master Pump</b> #2 (c)	<b>Master Pump</b> #3 (d)	<b>Master Pump</b> #4 (e)
Manufacturer				
Capacity (GPM)				
Size (HP)				
Power (Electric/Mechanical)				
Make, Model, or Type of Motor				
<b>OTHER SEWER SYSTEM INFORMATION</b>				
Present Number of Equivalent Residential Customer's * being served				
Maximum Number of Equivalent Residential Customer's * that the system can efficiently serve				
Estimated Annual Increase in Equivalent Residential Customers *				
* Equivalent Residential Customers = (Total Gallons Treated / 365 Days) / 275 Gallons Per Day.				
Total Gallons Treated includes both sewage treated and purchased sewage treatment.				
State any plans and estimated completion dates for any enlargements of this system:				
If the present systems do not meet environmental requirements, please submit the following:				
<u>A. An evaluation of the present plant or plants in regard to meeting the requirements.</u>				
<u>B. Plans for funding and construction of the required upgrading.</u>				
<u>C. The date construction will begin.</u>				
What is the percent of the certificated area that have service connections installed?				

\*\*\*If more space is needed to list equipment please attach additional sheets as necessary.

<b>Name of Respondent</b> Tennessee Wastewater Systems, Inc.	<b>This Report is:</b> (1) <input checked="" type="checkbox"/> An Original (2) <input type="checkbox"/> A Resubmission	<b>Date of Report</b> (Mo, Da, Yr) 2/3/2017	<b>Year of Report</b> 41273
<b>SUPPLEMENTAL FINANCIAL DATA TO THE ANNUAL REPORT</b>			
<b>Rate Base</b>			
<b>Additions:</b>			
Plant In Service			
Construction Work in Progress			
Property Held For Future Use			
Materials & Supplies			
Working Capital Allowance			
Other Additions - Common Plant Alloc from Parent Company			
Other Additions (Please Specify)			
<b>Total Additions to Rate Base</b>		0	
<b>Deductions:</b>			
Accumulated Depreciation			
Accumulated Deferred Income Taxes			
Pre 1971 Unamortized Investment Tax Credit			
Customer Deposits			
Contributions in Aid of Construction			
Other Deductions (Please Specify)			
Other Deductions (Please Specify)			
<b>Total Deductions to Rate Base</b>		0	
<b>Rate Base</b>			0
<b>Adjusted Net Operating Income</b>			
<b>Operating Revenues:</b>			
Residential			
Commercial			
Industrial			
Public Authorities			
Multiple Family			
Fire Protection			
All Other			
<b>Total Operating Revenues</b>		0	
<b>Operating Expenses:</b>			
Operation			
Depreciation			
Amortization			
Taxes Other Than Income Taxes			
Income Taxes			
<b>Total Operating Expense</b>		0	
<b>Net Operating Income</b>			0
Other (Please Specify)			
Other (Please Specify)			
<b>Adjusted Net Operating Income</b>		0	
<b>Rate of Return (Line 49 / Line 25)</b>			0.00%
All amounts should be calculated in a manner consistent with the last Rate Order issued by the Commission for this Company.			

Company Name:	Tennessee Wastewater Systems, Inc.
Report Period:	31-Dec-16
Report Date:	2/3/2017

BALANCE SHEET:

	Amount for 1st Reference	Amount for 2nd Reference	Difference
1. Line 10 on F4, col. "C" agrees w/line 16 on F5, col. "F".	23,057,126	23,057,126	0
2. Line 10 on F4, col. "C" agrees w/lines 34, W1, col. "F" & 32, S1, col. "F"	23,057,126	23,057,126	0
3. Line 11 on F4, col. "C" agrees w/line 52 on F5, col. "F".	7,892,199	7,892,199	0
4. Line 11 on F4, col. "C" agrees w/lines 32, W2, col. 1 & 30, S2, col. 1	7,892,199	7,892,199	0
5. Line 27 on F4, col. "C" agrees w/line 10 on F6, col. "B".	1,000	1,000	0
6. Line 28 on F4, col. "C" agrees w/line 10 on F6, col. "C".	-	-	0
7. Line 30 on F4, col. "C" agrees w/line 24 on F6, cols. "B" & "C".	346,557	346,557	0
8. Line 31 on F4, col. "C" agrees w/line 37 on F6, cols. "B" & "C".	-	-	0
9. Line 37 on F4, col. "C" agrees w/line 55 on F6, col. "C".	-	-	0
10. Line 41 on F4, col. "C" agrees w/line 32 on F7, col. "E".	-	-	0
11. Line 48 on F4, col. "C" agrees w/line 13 on F8, col. "D".	14,906,533	14,906,533	0
12. Line 8 on F8, col. "D" agrees w/line 55 on F8, cols. "C & D".	1,136,075	1,136,075	0

# EXHIBIT F

Lighthouse Pointe 5 Year Projection

Year	Customers	Revenue	Expenses
1	1	533.04	501.0576
2	3	1599.12	1503.173
3	5	2665.2	2505.288
4	6	3198.24	3006.346
5	6	3198.24	3006.346



# EXHIBIT G

# BEAN STATION UTILITY DISTRICT



581 Broadway Drive  
P.O. Box 520  
BEAN STATION, TENNESSEE 37708  
Telephone: (865) 993-2326  
Fax: (865) 993-2313

September 25, 2017

**"This institution is an equal opportunity provider, and employer."**

Lighthouse Pointe HOA  
c/o Rosemarie Cannuscio  
930 Whipper Will Ter.  
West Palm Beach, FL 33411

Dear Ms. Cannuscio:

At your request for information, no, water service from the Bean Station Utility District is not available in the Mallard Baye subdivision located off of Lakeshore Drive in Rutledge, TN.

Our 12-inch watermain travels along Lakeshore Drive and any property owner whose land adjoins could purchase a water tap. If a property developer wanted to install a watermain into Mallard Baye to Lighthouse Pointe they would need to let me know and I would put them into contact with our Engineer.

Thank you,

Teresa Perrin, Gen. Mr.  
Bean Station Utility District

# EXHIBIT H

Telephone 865.828.3513  
Fax 865.828.4284  
Email: graingercomayor@frontiernet.net



8095 Rutledge Pike, Suite 100  
P.O. Box 126  
Rutledge, TN 37861

Mark Hipsher  
County Mayor

Date: Sept 7, 2017

To Whom It May Concern:

The (County) ~~(City)~~ (circle one) ~~will~~ will not provide sewer service to the area(s)  
near \_\_\_\_\_ Road, Grainger County, Tennessee. The  
areas of interest are identified in Lighthouse Pointe County Tax Maps as:  
Map \_\_\_\_\_, parcels \_\_\_\_\_ and \_\_\_\_\_. dead 176 Page 1301

Restrictive Covenants uDB 269,  
Page 373

County Mayor ~~County~~:

Grainger County Mayor

Signature:

Mark Hipsher

# EXHIBIT I

Lighthouse Pointe Homeowner's Association  
648 Tom Treece Rd  
Morristown, Tn 37814  
423-839-1317

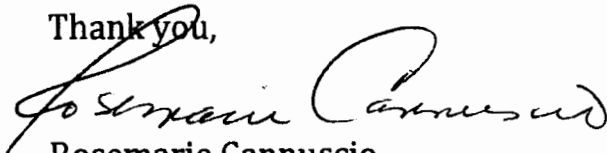
June 23, 2016

To Whom It May Concern,

Please be advised that the Lighthouse Pointe Homeowner's Association (HOA), requests the following utility to provide maintenance service to the wastewater treatment plant of the Lighthouse Pointe development in Rutledge, Tn :

Adenus Group LLC  
849 Aviation Pkwy  
Smyrna, TN 37167  
615-220-7175

Thank you,

A handwritten signature in cursive script, appearing to read "Rosemarie Cannuscio".

Rosemarie Cannuscio  
Secretary  
Lighthouse Pointe HOA

# EXHIBIT J

## WASTEWATER UTILITY SERVICE

## SECTION 4 – RESIDENTIAL RATES SHEET

	<u>Total</u>	<u>Escrow**</u>
<b><u>RATE CLASS 1</u></b>		
Fixed Film Treatment, Drip Dispersal, Bonding Rate #1	<b>\$44.42 (R)</b>	<b>\$10.13</b>
<b><u>RATE CLASS 2</u></b>		
Fixed Film Treatment, Drip Dispersal, Franchise Rate #1, Bonding Rate #1	<b>\$45.74 (R)</b>	<b>\$10.13</b>
<b><u>RATE CLASS 3</u></b>		
Fixed Film Treatment, Drip Dispersal, Bonding Rate #1, Bonding Rate #3	<b>\$44.42 (R)</b>	<b>\$10.13</b>
<b><u>RATE CLASS 4</u></b>		
Fixed Film Treatment, Drip Dispersal, Bonding Rate #1, Bonding Rate #4	<b>\$44.42 (R)</b>	<b>\$10.13</b>
<b><u>RATE CLASS 5</u></b>		
Deep Cell Pond Treatment, Drip Dispersal, Bonding Rate #1	<b>\$39.41 (R)</b>	<b>\$8.43</b>
<b><u>RATE CLASS 6</u></b>		
Deep Cell Pond Treatment, Drip Dispersal, Bonding Rate #1, Franchise Rate #2	<b>\$40.58 (R)</b>	<b>\$8.43</b>
<b><u>RATE CLASS 7</u></b>		
Deep Cell Pond Treatment, Point Discharge Dispersal, Bonding Rate #1	<b>\$39.41 (R)</b>	<b>\$8.43</b>
<b><u>RATE CLASS 8</u></b>		
Deep Cell Pond Treatment, Drip Dispersal, Bonding Rate #1, Bonding Rate #4	<b>\$39.41 (R)</b>	<b>\$8.43</b>
<b><u>RATE CLASS 9</u></b>		
Standard base Collection, Pass-through treatment costs	<b>\$24.21 (R)</b>	<b>\$6.35</b>
	+ Treatment Costs	
<b><u>RATE CLASS 10</u></b>		
DCP Treatment, Drip Dispersal, Loan Costs, Lease Costs, Bonding Rate #1	<b>\$55.25* (R)</b>	<b>\$8.43</b>

\*Applies to Southridge once the new treatment facility is placed in service

\*\*Escrow amount is included in the Total

Issued: August 18, 2017  
 Issued By: Charles Hyatt  
 President

Effective: September 1, 2017



**WASTEWATER UTILITY SERVICE****RESIDENTIAL RATE SHEET EXPLANATION**

<b>FFR.D:</b>	Standard Base RSF/Fixed Film Reactor Treatment Rate	<b>\$34.02</b>
<b>DCP.D:</b>	Standard Base Deep Cell Pont Treatment/Drip Dispersal Rate	<b>\$30.71</b>
<b>DCP2.D:</b>	Original Standard Base Deep Cell Pont Treatment/Drip Dispersal Rate	<b>\$22.55</b>
<b>DCP.P:</b>	Standard Base Deep Cell Pont Treatment/Point Discharge Rate	<b>\$30.71</b>
<b>E1:</b>	RSF Escrow Rate	<b>\$10.13</b>
<b>E2:</b>	DCP Escrow Rate	<b>\$8.43</b>
<b>E3:</b>	Southridge Escrow Rate	<b>\$6.35</b>
<b>B1:</b>	Statewide bonding charge of \$1.21	<b>\$0.27(R)</b>
<b>B3:</b>	Milcrofton Service Territory Bonding charge	<b>\$0.00</b>
<b>B4:</b>	Goose Creek Service Territory Bonding charge	<b>\$0.00</b>
<b>F1:</b>	3% City of Coopertown Franchise Fee on the Rate Class 1	<b>\$1.32</b>
<b>F2:</b>	3% City of Coopertown Franchise Fee on the Rate Class 5	<b>\$1.17</b>
<b>LC:</b>	Loan amortization costs for the Southridge treatment facility	<b>\$21.33</b>
<b>LL:</b>	Land Lease costs for the Southridge treatment facility	<b>\$2.67</b>
<b>SOU:</b>	Standard base Collection Rate for Southridge Subdivision	<b>\$17.59</b>
<b>TC:</b>	Treatment costs passed through from the city of Clarksville	<b>pass-through amt.</b>

<b>FFR.D.E1.B1</b>	<b>= \$44.42</b>	<b>= RATE CLASS 1 (34.02 + 10.13 + 0.27)</b>	<b>(R)</b>
<b>FFR.D.E1.B1.F1</b>	<b>= \$45.74</b>	<b>= RATE CLASS 2 (34.02 + 10.13 + 0.27 + 1.32)</b>	<b>(R)</b>
<b>FFR.D.E1.B1.B3</b>	<b>= \$44.42</b>	<b>= RATE CLASS 3 (34.02 + 10.13 + 0.27 + 0.00)</b>	<b>(R)</b>
<b>FFR.D.E1.B1.B4</b>	<b>= \$44.42</b>	<b>= RATE CLASS 4 (34.02 + 10.13 + 0.27 + 0.00)</b>	<b>(R)</b>
<b>DCP.D.E2.B1</b>	<b>= \$39.41</b>	<b>= RATE CLASS 5 (30.71 + 8.43 + 0.27)</b>	<b>(R)</b>
<b>DCP.D.E2.B1.F2</b>	<b>= \$40.58</b>	<b>= RATE CLASS 6 (30.71 + 8.43 + 0.27 + 1.17)</b>	<b>(R)</b>
<b>DCP.P.E2.B1</b>	<b>= \$39.41</b>	<b>= RATE CLASS 7 (30.71 + 8.43 + 0.27)</b>	<b>(R)</b>
<b>DCP.D.E2.B1.B4</b>	<b>= \$39.41</b>	<b>= RATE CLASS 8 (30.71 + 8.43 + 0.27 + 0.00)</b>	<b>(R)</b>
<b>SOU.E3.TC.B1</b>	<b>= \$24.21 + tc</b>	<b>= RATE CLASS 9 (17.59 + 6.35 + 0.27) + tc</b>	<b>(R)</b>
<b>DCP2.D.E2.LC.LL.B1</b>	<b>= \$55.25</b>	<b>= RATE CLASS 10 (22.55 + 8.43 + 21.33 + 2.67 + 0.27)</b>	<b>(R)</b>

**Fees: Non-Payment – 5% of total bill amount****Disconnection – \$40****Reconnection – \$50****Returned Check (NSF Fee) – \$25****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 18, 2017****Effective: September 1, 2017****Issued By: Charles Hyatt  
President**