May 29th, 2025

Electronically Filed in TPUC Docket Room on May 29, 2025 at 7:22 p.m.

Chairman David Jones TN Public Utility Commission 502 Deaderick Street, 4th Floor Nashville, TN 37243

25-00038

Re: Declaration of Private Sewage System - Letter of Determination
Waterloo RV Park Development
Lawrenceburg, Lawerence County, TN
Five Rivers Group Investments, LP – Owner & Developer
Landmark Engineering Group Project #01-25-1816

Chairman Jones

On behalf of the development owners, Five Rivers Group Investments, LP, I hereby request a letter of determination regarding whether a CCN is required for the referenced project. The project includes the construction of a private sanitary sewer collection system and wastewater treatment plant with capacity of 35,000 gpd.

The project is being proposed as an RV Park Community and the facility will be owned, rented and maintained by Five Rivers Group Investments, LP. The project consists of approximately 100 RV stalls, 50 cabins, pool, clubhouse and amenities. The Extended Aeration wastewater treatment plant and related system components to be privately owned, operated and maintained by Five Rivers Group Investments, LP. The wastewater system will serve the proposed development and no other users or parcels in Lawrenceburg, TN.

Waterloo RV Park Development project will require State Operating Permit from TDEC. Five Rivers Group Investments, LP will own the property, wastewater system, and all structures and improvements. The RV visitors will never be charged for use of the wastewater system. As required for operation and maintenance of the wastewater system, the property owner shall maintain a contract with a qualified wastewater operator certified by TDEC.

A Pre-application meeting was held with TDEC, and the minutes of that meeting are included herewith as part of our TPUC submittal. TDEC has requested a determination from TPUC that a CCN is not required for the construction and operation of the wastewater treatment system prior to submittal of the preliminary Plan & report and final construction plans for SOP.

Engineer's TPUC Letter - Five Rivers Group Investments, LP Determination CCN is not Required

Waterloo RV Park, Lawrenceburg, Lawrence County, TN Landmark Engineering Group Project *01-25-1816

In addition, I have included owner's letter, Site Plan, Preliminary WWTP plan set, Plat of Survey, Owner's Property Deed, Owner's Corporate Certificate of Formation, TN Secretary of State registration, and TDEC pre-application meeting minutes.

If you have any concerns or questions, please contact me at (309) 755.3400, extension 1200, mobile phone @ (309) 269.6350 or by email at mike.shamsie@landgroup.biz.

Respectfully Submitted,

Michael Shamsie, PE, CFM, CPESC

Tennessee PE Registration #106732, Expiration 10/31/2026

Landmark Engineering Group, Inc.

6700 Tower Circle, Suite 330 Franklin, TN 37067

Office (309) 755.3400 Mobile (309) 269.6350

May 22nd, 2025

Chairman David Jones TN Public Utility Commission 502 Deaderick Street, 4th Floor Nashville, TN 37243

Re: Declaration of Private Sewage System - Letter of Determination

Waterloo RV Park

Lawrence burg, Lawrence County, TN

Five Rivers Group Investments, LP - Owner & Developer

I am a member of and represent Five Rivers Group Investments, LP who is the owner and developer of the proposed Waterloo RV Park project located in Lawrenceburg, Lawrence County, TN. The project includes the construction of a private sanitary sewer collection system and wastewater treatment plant with capacity of 35,000 gpd.

The project is being proposed as an RV Park Community and the facility will be owned, rented and maintained by our company, Five Rivers Group Investments, LP. The project consists of approximately 100 RV stalls, 50 cabins, pool, clubhouse and amenities.

The private sanitary sewer collection system and wastewater treatment plant will only serve the Waterloo RV Park project. The wastewater treatment plant operation, maintenance and repair costs are the sole costs of our company with no tenant or user billing or usage fees charged. The wastewater treatment plant will not provide service to any other parcels or developments. This is a private sewage system and not available to the general public at any time or for any other non-owned facilities.

The wastewater treatment plant shall be owned and permanently maintained by our company and operated under a contract with a duly licensed wastewater operator in accordance with TDEC standards.

If you have any questions or need additional information, please contact our Engineer, Michael Shamsie, at (309) 755.3400, extension 1200, mobile phone @ (309) 269.6350 or by email at mike.shamsie@landgroup.biz.

Respectfully Submitted,

Mr. Matt Brown, Member

Five Rivers Group Investments, LP

613 Ewing Avenue

Nashville, Tennessee 37203

Mobile (615) 490.5144

APPLICATION FOR REGISTRATION OF FOREIGN LIMITED PARTNERSHIP

SS-4473



Tre Hargett Secretary of State

Division of Business Services Department of State

State of Tennessee ATTN: Corporate Filing 312 Rosa L. Parks Ave. 6th FL Nashville, TN 37243-1102 (615) 741-2286

Filing Fee: \$600

For Office Use Only



Pursuant to the provisions of the Tennessee Uniform Partnership Act of 2017, T.C.A. § 61-3-1003, the undersigned foreign limited partnership submits the following application for registration:

1. The exact legal name of the foreign limited partnership in its home jurisdiction is: FIVERIVERS GROUP INVESTMENTS, LP - WATERLOO 1819 US FUND, A SERIES OF FIVERIVERS GROUP INVESTMENTS, LP

If different, the name under which the foreign limited partnership is to be registered in Tennessee:

WATERLOO 1819 US FUND, A SERIES OF FIVERIVERS GROUP INVESTMENTS, L.P.

Note: Pursuant to the Tennessee Revised Limited Bottorobin Act of the Tennessee

Note: Pursuant to the Tennessee Revised Limited Partnership Act of 2017 § 61-3-112, each foreign limited partnership name must contain the words "Limited Partnership" or the abbreviation L.P.

| | DANTON STREET, ST. ST. ST. ST. ST. | or the appreviation L.P. |
|---|---|--|
| The limited partnership was for and the effective date of forma | med under th tion was ^{06/30} | he laws of the State/Country of Delaware |
| 3. The above-named foreign limit of the jurisdiction of its organiz | ed partnership ation as of the | ip validly exists as a limited partnership under the laws e date of this filing. |
| 4. The name of the registered age Agent's Name: Eric Albian Street Address: 572 Glen Echo | | olete registered office address in Tennessee is: |
| | | Zip Code: 37138 County: Wilson |
| 5a. The complete address of the Street Address: 572 Glen Echo | N VE | e is: ecoleman@theadvisory-giobal |
| City: Old Hickory | ST: TN | Zip Code: 37138 County: Wilson |
| 5b. The mailing address (if differe Street Address: | nt from the pr | rincipal street address) is: |
| City: | _ ST: | _ Zip Code: |
| 6. Fiscal Year Close Month: Dece | ember | |

APPLICATION FOR REGISTRATION OF FOREIGN LIMITED PARTNERSHIP

SS-4-



Division of Business Services Department of State

State of Tennessee ATTN: Corporate Filing 312 Rosa L. Parks Ave. 6th FL Nashville. TN 37243-1102 (615) 741-2286

Filing Fee: \$600

For Office Use Only

| Secretary of State | " sings resid | lence, or mailing) | of each general partner is: |
|---|---------------------|--|------------------------------------|
| Secretary of State 7. The name and complete address | S (business, reak | LIS GP a series of F | iveRivers Group Investments, LLC |
| FiveRivers Group Investments, 1 | LC - Waterloo 1819 | 05, 61, 22 | , 300 |
| Name: 572 Glen Echo Dr. | | 07100 | NAT. |
| Address: 572 Glen Echo Dr. City: Old Hickory | ST. TN Zip | Code: 3/138 | County:Wilson |
| City: Old Fickory | 51 | | |
| Name: | | | |
| | | | |
| Address: | Zip I | Code: | County: |
| City: | 51 | | and a second of the improvement of |
| ☐ Additional general partner(s) is/a | re listed on the a | ttached page(s) w | hich is/are fully incorporated |
| Additional general partner(s) is a herein by reference (check and c | complete if applic | able). | · United portnovski |
| herein by reference (check and of 8. If applicable, this Limited Partners | ship has the addi | tional designation | of: series limited partnership |
| 8. If applicable, this Limited Partner | Ship has the same | | |
| ,400 | | | |
| 9. If the Limited Partnership comme | nced doing busin | ess in Tennessee | prior to the approval of the |
| annication, the date of comment | Cilicit (month) | 1.5 | |
| Natar Additional filling fees may at | oply. See T.C.A. § | 61-3-1002(1) | |
| | LL I Hootiv | a upon filing by th | e Secretary of State, the |
| | | | |
| A delayed effective date may not | be later than the | 90th day after the | e date this document is filed with |
| the Secretary of State. | | | |
| , 10 0 | nent of similar im | port) duly authenti | cated by the Secretary of |
| | | | |
| Jaw it was formed is attached. The o | entificate shall no | Libear a date of m | ore than sixty (50) days pho. |
| to the date the application is filed. T. | | | |
| Note: The application must be execu | ted by a general | partner. | |
| 1)110 | | Authorized Signat | ory of the General Partner |
| John Hyr | | Title/Signer's Cap | |
| Signature / | | J | • |
| lennifor Due | | 08/08/2024 | |
| Printed Name | | Date | |
| | | ************************************** | |
| Submitter Name: | | Phone #: (| |

FIVERIVERS GROUP INVESTMENTS, LP - WATERLOO 1819 US FUND, A SERIES OF FIVERIVERS GROUP INVESTMENTS, LP

Entity Type: Foreign Limited Partnership (LP)

Formed in: DELAWARE

Term of Duration: Perpetual

LP88 Act: No

Number of Partners: 0

Control Number: 001567101 Status: Active

Initial Filing Date: 8/9/2024 11:12:00 AM

Fiscal Ending Month: December

AR Due Date: 04/01/2025

Obligated Member Entity: No

OLD HICKORY, TN 37138 Principal Office Address **572 GLEN ECHO DR 572 GLEN ECHO DR** Registered Agent **ERIC ALBIAN**

OLD HICKORY, TN 37138

Other Standing: Good RA Standing: Good AR Standing: Delinquent

Revenue Standing: N/A

Change History Tracking Number B1606-0002 8/9/2024 11:12:00 AM Date SERIES OF FIVERIVERS GROUF WATERLOO 1819 US FUND, A GROUP INVESTMENTS, LP -Initial Filing for FIVERIVERS INVESTMENTS, LP History (1)

This Instrument prepared by: The Advisory PLLC

OUIT CLAIM DEED

KNOW ALL MEN BY THESE PRESENTS, that Waterloo, LLC on this the 21st day October, 2024,

for and in consideration of the sum of One and no/100 Dollars, do(es) hereby bargain, sell, release, remise, quit claim and convey unto FiveRivers Group Investments, LP Waterloo 1819 US Fund, a series of FiveRivers Group Investments, LP all right, title and interest in and to the following described real estate, to wit:

Situated, lying and being in the 6th Civil District of Lawrence County, Tennessee, on the waters of Spring Creek and Beeler Branch and the North side of Waterloo Road being more particularly described as follows:

Beginning in the center of a cement bridge across Spring Creek in center of Waterloo Road as follows; South 50 degrees East 4 poles; South 65 degrees East 4 poles; South 86 degrees East 4 poles; North 78 degrees East 4 poles; North 68 degrees East 4 poles; North 54 degrees East 8 poles; North 50 degrees East 4 poles; North 43 degrees East 8 poles North 45 degrees East 15 poles, more or less to point in center of Waterloo Road with elm pointer; thence North 34 degrees West 3 poles, more or less, to center of Spring Creek with elm, red bud and maple pointers; thence with center and meandering of said Spring Creek as follows: North 28 degrees East 4 poles; North 52 degrees East 6 poles; North 25 degrees East 4 poles; where Beeler Branch intersects said Spring Creek; thence with center of Beeler Branch as follows: North 8 degrees East 4 poles, North 8 degrees West 4 poles; North 6 degrees West 4 poles North 4 poles; North 5 degrees West 8 poles; leaving said branch North 13 degrees East 2-1/2 poles to black walnut tree at corner of wire fence W. E. Robertson's corner; thence with net wire fence and W.E. Robertson's South line and original North boundary line, North 84 degrees West 69 poles to old post with sassafras pointer; thence North 87 degrees West 37 poles to elm tree marked as a corner of 7-2/10 acre tract on the South line of James Douser's land; thence South about 9 degrees East 498 feet more or less to large poplar marked corner; thence with edge of field 12 feet in wood at all points as follows: South about 59-1/2 degrees East 200 feet to cedar tree; South 40-1/2 degrees East 200 feet to sumac bush 12 feet West of field; thence across wood, field and wood South 19 degrees East 306 feet to center of Waterloo Road; thence with center and meandering of said Waterloo Road as follows: South 77-1/2 degrees East 3-2/3 poles; South 75 degrees East 4 poles; South 65 degrees East 4 poles; South 50 degrees East 21 poles, all with Waterloo Road to the beginning, containing by estimation to be 36-2/10 acres, more or less.

Being the same property conveyed to Eddie Rhinehart and wife, Misty Rhinehart by Warranty Deed from James E. Donnelly and wife, Kaley Donnelly of record in Book 598, Page 541, Register's Office for Lawrence County, Tennessee, dated May 01, 2020 and recorded on July 02, 2020.

Being the same property conveyed to Onyx Hall, LLC, a Tennessee limited liability company by Warranty Deed from Eddie Rhinehart and Misty Rhinehart, husband and wife of record in Book 667, page 742, Register's Office for Lawrence County, Tennessee, dated February 24, 2022 and recorded on March 2, 2022.

Being the same property conveyed to Waterloo, LLC, a Tennessee limited liability company by Warranty Deed from Onyx Hall, LLC of record in Book 746, page 373-375, Register's Office for Lawrence County, Tennessee, dated May 30, 2024 and recorded on May 31, 2024.

This is property more commonly known as 232 Waterloo Road, Lawrenceburg, TN 38464.

[Signature Page Follows]

BK/PG: 762/95-97
24005768
3 PGS:AL-QUITCLAIM DEED
HAILEY BATCH: 143654
10/28/2024 - 09:14:33 AM
VALUE
MORTGAGE TAX

TOTAL AMOUNT 17.01

STATE OF TENNESSEE, LAWRENCE COUNTY

TERRA DICKEY

REGISTER OF DEEDS

| | gc- |
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| | John Cascarano |
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| STATE OF Florida | |
| COUNTY OFMiami-Dad | le |
| Before me, the undersigned | Notary Public in and for the County and State aforesaid, personally |
| appeared | John Coccerence |
| | John Cascarano with whom I am personally acquainted |
| (or proved to me on the basi | is of satisfactory evidence), and who acknowledged to be person(s) within |
| named and that execute | ed the foregoing instrument for the purpose therein contained. October 20 24 Whom produced a DRIVER LICEN |
| Witness my hand ar | nd seal this day of, 20 |
| | RITA RINDONE |
| • | Notary Public - State of Florida Commission as Mattrials Rita Rindone |
| | HH270624 NOTATY PUBLIC |
| My commission expires: | (v online using communication technology via Proof |
| I, or we, hereby swear | y online using communication technology via Proof. or affirm that to the best of affiant's knowledge, information, and belief, |
| the actual consideration for | |
| | \mathcal{C} |
| | John Cascarano Affiant |
| | John Cascarano Affiant |
| STATE OF Florida | <u></u> |
| COUNTY OF Miami-Dade | RITA RINDONE |
| | Notary Public - State of Flor |
| Subscribed and sworn I | before me this the day of October , 20 |
| Whom produced a DRIVER | |
| | |
| | Rita Rindone Notary Public |
| | |
| My commission expires: 00 | |
| My commission expires: Of | 6/04/2026 HH2/0624 |
| My commission expires: Of | 6/04/2026 HH2/0624 |
| | 6/04/2026 HH2/0624 |
| The following information | is not a part of this Deed: |
| The following information Property Address: | is not a part of this Deed: 232 Waterloo Rd. Lawrenceburg, TN 38464 S FiveRivers Group Investments, LP Waterloo 1819 US Fund, |
| The following information Property Address: | is not a part of this Deed: 232 Waterloo Rd. Lawrenceburg, TN 38464 |
| The following information Property Address: | is not a part of this Deed: 232 Waterloo Rd. Lawrenceburg, TN 38464 S FiveRivers Group Investments, LP Waterloo 1819 US Fund, |
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| The following information Property Address: Owner's Name and Address | is not a part of this Deed: 232 Waterloo Rd. Lawrenceburg, TN 38464 SFiveRivers Group Investments, LP Waterloo 1819 US Fund, a series of FiveRivers Group Investments, LP |

Notarized remotely online using communication technology via Proof.

| I, <u>Cusene</u> (alway), do hereby make oath that I am a licensed attorney as custodian of the original version of the electronic document tendered for regist and that this electronic document is a true and exact copy of the original document authenticated according to law on 10/17/14 (date of document). Affiant Signature | ration herewith |
|---|------------------|
| 10/23/24 Date | |
| State of Ionnessee County of SHEIBU | STATE OF |
| Sworn to and subscribed before me this $\frac{23}{3}$ day of $\frac{000000}{00000000000000000000000000000$ | TENNESSEE NOTARY |
| Notary's Signature MY COMMISSION EXPIRES: 02 07 2027 | O PUBLIC O |



STATE OF TENNESSEE DEPARTMENT OF ENVIRONMENT AND CONSERVATION DIVISION OF WATER RESOURCES

William R. Snodgrass - Tennessee Tower 312 Rosa L. Parks Avenue, 11th Floor Nashville, TN 37243-1102

PROJECT NAME: Waterloo RV Park DATE REQUESTED: 4/12/25

MEETING LOCATION: Microsoft Teams

PERMIT: SOP TBD

COUNTY: Maury
DATE HELD: 4/22/25
MEETING TIME: 10 central

WPN: 25.0226

PARTICIPANTS/REPRESENTING: (checklist ITEM I.A)

TDEC: Angela Jones, PE (angela.jones@tn.gov), Tim Hill, PE (timothy.hill@tn.gov), Bryan Pope (bryan.pope@tn.gov), Brad Smith (Bradley.e.smith@tn.gov)

Landmark Engineering: Mike Shamsie, PE (mike.shamsie@landgroup.biz), Jim Hysen (jim@landventures.com)

Five Rivers Development: Eric Albian (eric@channelpartnerships.com), Matt Brown (mattbrown1895@gmail.com)

Contract Operator: Chuck Steffins (c72442@hotmail.com)

PROJECT BACKGROUND AND PURPOSE: (checklist ITEM B)

Waterloo RV Park is a proposed RV campground outside Lawrenceburg. The park proposes approximately 95 RV sites, 50 cabins and onsite amenities. The park is expected to be mostly short term, seasonal rentals. The closest public sewer connection is reported to be approximately 5 miles away.

SUMMARY OF PRELIMINARY ENGINEERING REPORT CONSIDERATIONS (checklist ITEMS C, D, E):

The proposed treatment facility is a Gainey Concrete Activated Sludge Plant. RV sites are based on 120 gpd/unit and the cabins at 300 gpd/unit. Due to limited soil availability, temporary storage in a holding pond and beneficial reuse thru irrigation is proposed. The collection system is proposed to be conventional gravity.

The Division conveyed the following observations with the proposal and considerations moving forward:

- 1. Although the site is proposed to be a single owner and rentals, a letter of determination from the Tennessee Public Utility Commission will be required.
- 2. There should not be an extra allowance for i/i due to the gravity collection system. The proposed design flow is 34,000 gpd. Note Rule 0400-40-02-.03(3) prohibits activated sludge plants under 30,000 gpd and requires justification for its implementation between 30,000-100,000 gpd.
- 3. Rule 0400-40-06-10 states that "only demonstrated, consistent, year-round reuse demands can be counted toward wasteload commitments to reduce the amount of wastewater subject to discharge or land application permits..." and that "Wasteload commitments based on reuse shall not exceed 25% of the total wasteload commitments". Temporary storage in a holding pond cannot be used to offset disposal requirements.
- 4. While not discussed in the meeting, it should be noted a separate non-potable reuse "purple pipe" distribution system would be required if landscape irrigation with non-potable reuse water were to be part of the project.
- 5. There are different regulatory requirements for land application and non-potable reuse which are included in 0400-40-06.
- 6. The engineering report should include the items in Appendix 1-D-2 of the Design Criteria for Review of Sewage Works Construction Plans and Documents as well as the following items:
 - a. The system head curve plotted on the pump curve for flushing the system. If using two pumps, the pumps should be added.
 - b. The hydraulic grade lines for the flushing system at the design flow rate.
 - c. The hydraulic grade line at the dosing rate when the system is pressurized.
 - d. An analysis of the system showing if PRVs are required in any low portions for the system.
 - e. The system head curve plotted on the pump curve for dosing.



STATE OF TENNESSEE DEPARTMENT OF ENVIRONMENT AND CONSERVATION DIVISION OF WATER RESOURCES

William R. Snodgrass - Tennessee Tower 312 Rosa L. Parks Avenue, 11th Floor Nashville, TN 37243-1102

- f. The time it takes to pressurize the most critical zone and a calculation showing the volume in the operating range of the dosing tank includes the volume required to dose each zone for the design time.
- g. A description of how the design prevents pooling of water in a certain section of the zone when that section is no longer dosing.

SUMMARY OF RECEIVING WATERS OR SITE SUITABILITY: (checklist ITEM F)

The proposed loading rate is 0.15gpd/ft2 based on soil suitability. Note that TDEC does not have reserve requirements in its rules, however, local jurisdictions may. The site reports to have approximately 1.5 acres of suitable soil area. Based on the projected demand of 34,000 gpd, approximately 5.2 acres would be required. It was recommended to investigate more soils area on the site.

SUMMARY OF ANTICIPATED PERMITTING NEEDS: (checklist ITEM G, I, J, K):

A Permit Application should be emailed to water.permits@tn.gov. Permit fees must be by check.

Depending on the Letter of Determination from the TPUC:

If a CCN is required, then a utility, municipality or private-public utility registered with TPUC will be required to hold the permit and have easements for the sewer assets on site.

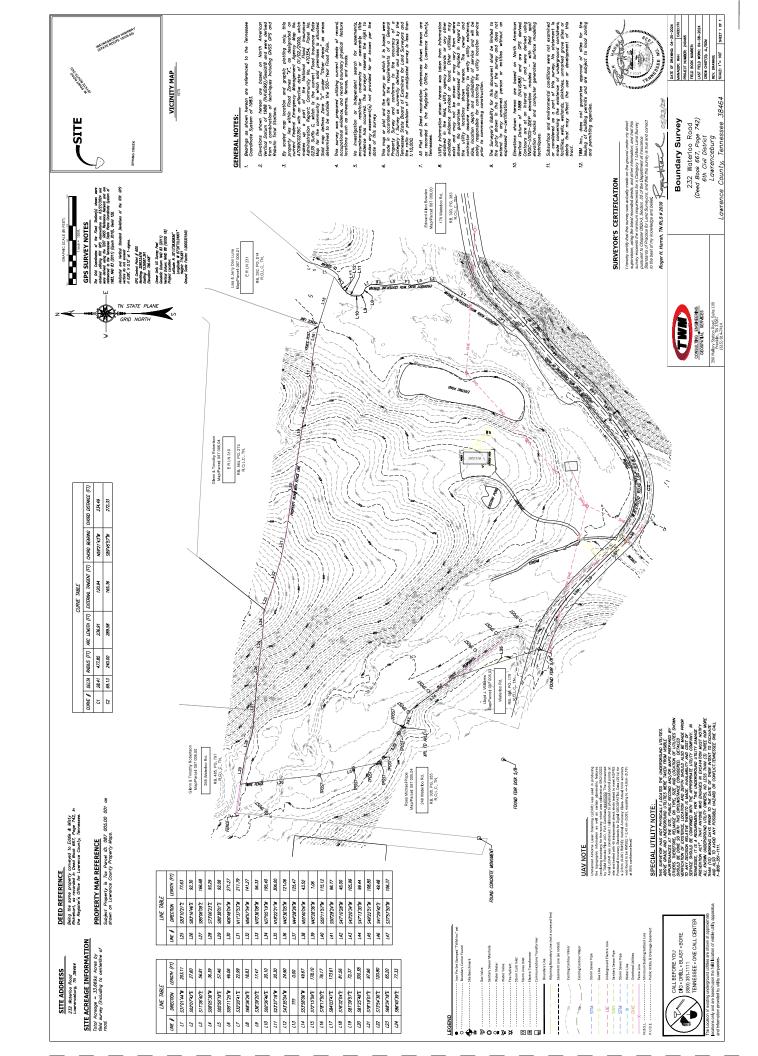
If a CCN is not required, then financial security will be required per Rule 0400-40-.06-11.

To incorporate reuse provisions in the permit, the application must also include the necessary items called out for in Rule 0400-40-06-10 (such as the Reclaimed Water Management Plan).

A link to TDEC's Rules: https://publications.tnsosfiles.com/rules/0400/0400-40/0400-40.htm

Link to the Division of Financial Assurance: https://www.tn.gov/environment/about-tdec/fin-financial-responsibility.html





A, DRAINAGE EASEMENTS OUTSIDE DEDICATED PUBLIC RIGHT—OF—WAY ARE NOT THE RESPONSIBILITY OF THE CITY/COUNTY.

"CALL TENNESSEE ONE CALL

(615) 367-1110 OR 811 BEFORE YOU DIG"

PRELIMINARY WASTE WATER TREATMENT SYSTEM PLANS

232 WATERLOO ROAD, LAWRENCEBURG, TENNESSEE

WATERLOO RV PARK

LAWRENCEBURG, TENNESSEE WATERLOO RV PARK

COVER SHEET

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PRELIMINARY WWTP SITE PLAN PRELIMINARY WWTP DETAIL HOLDING TANK DETAIL HOLDING TANK DETAIL

P2 P3 P5 P6

OVERALL SITE PLAN Sheet Title

Sheet List Table

Sheet Number

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LAWRENCEBURG COUNTY, TN 6TH CIVIL DISTRICT DEED BOOK 667, PAGE 742,

PROJECT TEAM

FIVE FIVERS CAPOUP INVESTMENTS, LLC 613 EWING AVENUE NASHWILLE, TENNESSEE 37203 CLENT

PROJECT LOCATION

LOCATION REQUESTS SHOULD BE MADE TO THE PUBLIC WORKS DEPARTMENT FOR WATER, SANITARY AND STORM SEWERS. JOINT UTILITY LOCATION INFORMATION FOR ECKNAMINGS CONTRACTION SHALL ALSO REQUEST THE LOCAL CABLE TV. COMFANY FOR LOCATION OF THEIR FACILITIES

UTILITY NOTES

ANY REVISIONS TO THE APPROVED CANDINERROW AND APPROVED BY THE GOVERNING ACENORIS. OWNER, AND THE ENGINEER OF RECORD BEFORE ANY WORK IS PERFORMED REGARD THE REVISED TEMS.

SITE BENCHMARK

WATERSHED - SPRING CREEK

MR. ERIC ALBIAN PHONE: (615) 293-2756 CONTACT

6700 TOWER CIRCLE, STE. 330 FRANKLIN, TN 37067 **◆ Landmark** ENGINEER

MR. MICHAEL SHAMSIE, P.E. PHONE: (309) 755-3400 CONTACT

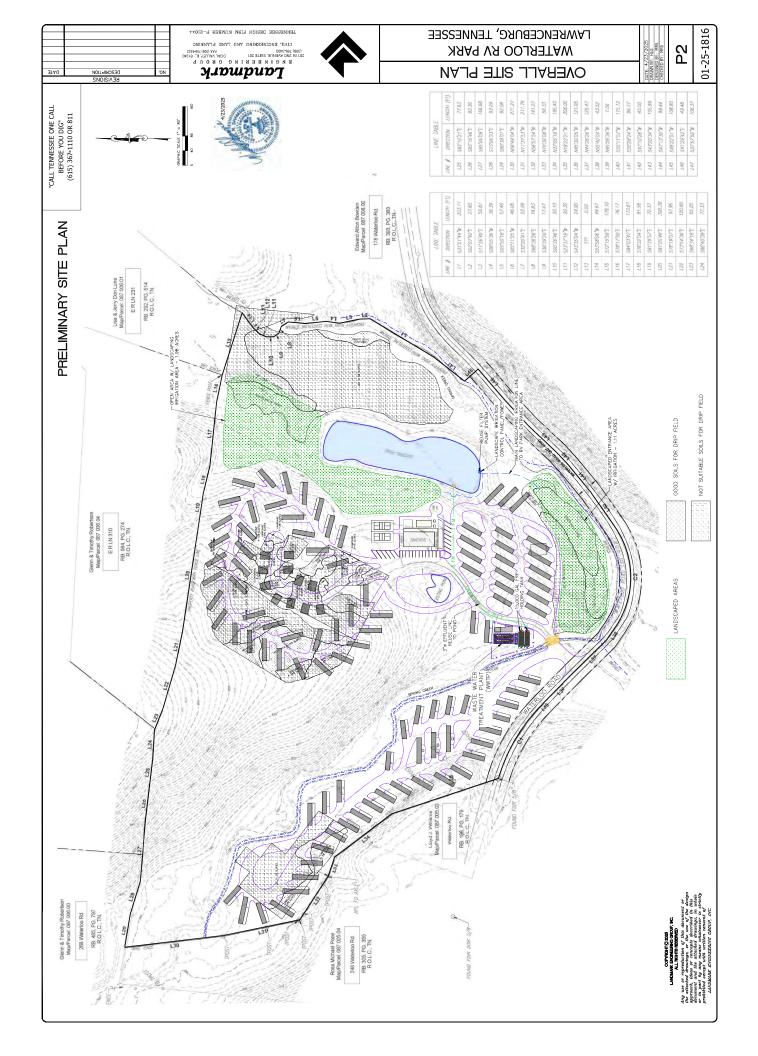
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01-25-1816



LAWRENCEBURG, TENNESSEE WATERLOO RV PARK

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374 EFFLUENT REUSE LINE TO POND

WASTE WATER TREATMENT PLANT (WWTP)...

WOOD FENCE

3TAQ

"CALL TENNESSEE ONE CALL BEFORE YOU DIG" (615) 367-1110 OR 811

PRELIMINARY SITE PLAN

-12" X 16" CONTROL BUILDING

Landmark Landma

CCIDEOD AGANCH WASTE WATER TREADURT PLANT.

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TON EQUALIZATION VIOLINE SSOI GALLINGS = 250% OF FRO.

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NON-SEASONAL PRODS — REDUS EFFLURAT TO BE UNLESS FOR LANDSDAPE IMPRISATION.

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VERTICAL RISER W/ HOSE CONNECTION TO LOAD TANKER

-15,000 GAL FRP HOLDING TANK

15,000 GAL FRP HOLDING TANK

THE HOLDING CELL HAS THE VOLUME CAPACITY TO STORE 225,000 OF.

THE NON-SEASONAL PERGO IS APPROXIMATELY 90 TO 120 DAYS.

THE NON-SEASONAL HOLDING CELL CAPACITY IS 280 DAYS BASED ON 4,000 GPD.

HADING CILL FOR RE-LISE DURING FILE 8 TO 9 MONTHS OF SESSONAL WEARDER.

INDEX OF FINITHNEY WOMEN TO USE FOR MONTHS OF SESSONAL WEARDER.

FILIARY WOUNDER SESSONAL SES

OPEN SPACE WAITENED WITHIN RYP PARK IS APPROXIMATELY 2111 ACRES.
LANK REGIONALING OF SPECIAL PROCESS. THE PROSIMATEL LANK REGIONAL WAISON. SE SEGON TO 172,000 GLA/RED.
HI WAVE PETULST TOURIES WALL WELLY TOURLY TO THE OPEN SPACE WAITENOUSE. THE SETMATED
THIS ACRES OF OPEN SPACE.

EVAPORATION WILL OCCUR DALLY WITHIN THE 1.0—AGNE SIRFACE AREA OF THE HOLDING SPAPORATION RATE OF 167PER DAY ORER THE SIRFACE AREA SERVECA RATE SERVECA RATE - 167° 0.0 TO 1.0 AGNE = 45.0 ° CF CF A50 GPD.
OKER THE COURSE OF WEEK BASED ON 7 DAYS OF EVAPORATION = 23,738 GAL/MEEX.

SOL SATURATION WITHIN HOLDING CELL.
SOLL CHARACTERISTICS FER INSCS SOLL SIMPY;
NO SATURATION OVER THE EDITION OF THE 1.0 ADRE HOLDING CELL BASIN
NO PLANT TRANSPIRATION WITHIN AND AROUND HOLDING CELL WAS UTILIZED

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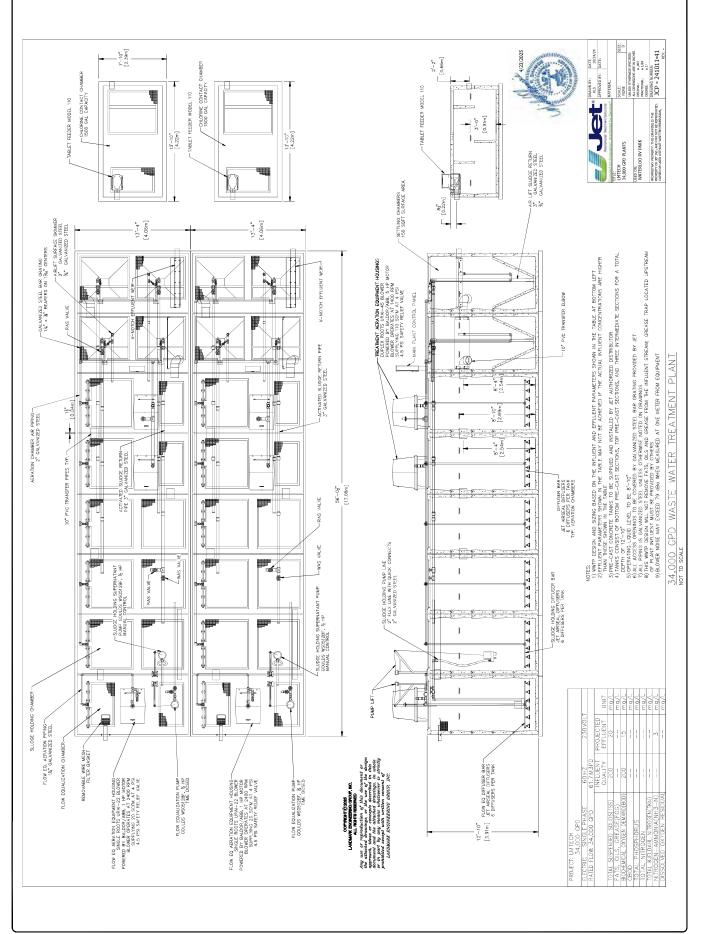
Y: HLG BY: MRS BY: MRS

MATERLOO RV PARK LAWRESSEE

JIATƏQ 9TWW YAANIMIJƏR9







SEE SHEET NEXT FOR NOTES

V PHASE
HP
DIA. DISCHARGE

EQUALIZATION PUMPS
MANUFACTURER: BARNES
MODEL:







GENERAL PRIMARY TREATMENT, EQUALIZATION

PRIMARY & EQUALIZATION TANK SECTIONS

□ = NOTES
○ = COMPONENTS USED
◎ = COMPONENTS NOT USED
○ = FLOAT, INVERT OR GRADE
◆— = ELEVATIONS

SYMBOL LEGEND:

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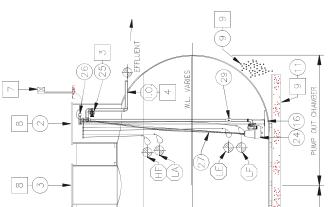
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INFLUENT

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8, 10, % 15, TANKS (TYP)



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PRIMARY HOLDING TANK SECTION

| FRP PROCESS TANK COMPONENTS | | |
|---|--|---------------------------------------|
| ITEM DESCRIPTION | ITEM NO. ITEM DESCRIPTION | TEM NO. ITEM DESCRIPTION |
| 1)- 24" DIAMETER ACCESS RISER (TYP.) | (16) – FRP PUMP PLATFORM | (99 - SUBMERSIBLE ASPIRATOR |
| 36" DIAMETER ACCESS RISER (TYP.) | (I) NITRATE RECYCLE LINE (IF SPECIFIED) | 📖 - ASPIRATOR INTAKE |
| 3)- 24" OR 36" DIAMETER ACCESS RISER (TYP.) | (1880 - ANOXIC SLUDGE PUMP & RAIL ASSEMBLY | 60 - 30" DIAMETER ACCESS RISER (TYP.) |
| CARBON FEED CONDUIT (IF SPECIFIED) | 🕮 – AERATION MANIFOLD & SPARGER LATERALS | 89 - 2" AEROBIC MBBR INLET ASSEMBLY |
| 🖄 – DROP LEG & VALVE ASSEMBLY (PNUEMATIC) | 🏈 – TOP MOUNTED MIXER ON PEDESTAL MOUNT | 🥮 – FRP BAFFLE WALL |
| 4" PVC VENT | (2) – AERATION HEADER MANIFOLD | 6 - 2" ANOXIC MBBR INLET ASSEMBLY |
| STAINLESS STEEL MEDIA RETENTION SCREEN | (2) - 48" DIAMETER ACCESS RISER (TYP.) | 6 - FINAL PUMP & RAIL ASSEMBLY |
| Meutrally Bouyant HDPE BIOFILM Carrier Elements (Media) | 🥝 — EFFLUENT ASSEMBLY | 689 - SLUDGE RECYCLE LINE |
| BACKFILL | 🕬 — EQUALIZATION PUMPS & RAIL ASSEMBLIES | 🥝 - SUBMERSIBLE MIXER |
|) — CONCRETE DEADMEN (IF REQUIRED) | (25) – THROTTLING VALVE (HYDRAULIC) | |
| - COMPACTED GRANULAR BASE | (26) — FRP SUPPORT BRACKET W/ HARDWARE | |
| A NITRATE RECYCLE PUMP & RAIL ASSEMBLY | (27) — STAINLESS STEEL LIFTING CHAIN | |
| S = FRP BAFFLE WALL WITH 4 CENTER LINE 4" HOLES (TYP.) | (28) — STAINLESS STEEL FLOAT BRACKET | |
| 🔌 – FRP AERATION GRID SUPPORT PLATFORM | (29) - CHECK VALVE (HYDRAULIC) (BY CONTRACTOR) | |
| A PRP HYDROSTATIC BAFFLE WALLS | 🚳 - ALKALINITY FEED CONDUIT (IF SPECIFIED) | |

15,000 GALLON FRP HOLDING TANKS NOT TO SCALE

01-25-1816



WATERLOO RV PARK HOLDING TANK DETAIL

LAWRENCEBURG, TENNESSEE







(58)

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GENERAL PRIMARY TREATMENT, EQUALIZATION

PLAN ON PRIMARY AND EQUALIZATION TANK SECTIONS

3TAQ



(2)(26)/18PUMP OUT CHAMBER

EFFLUENT

PLAN ON TREATMENT PLANT

TANK DEPICTED IS MEANT TO BE A GENERAL CONFIGURATION. ACTUAL TANK LENGTH, DIAMETER AND RISER LOCATIONS MAY VARY DEPENDING ON REQUIREMENTS. EFFLUENT ASSEMBLY (FILTERS OR TEE) TO BE SIZED TO ACCOMEDATE ALL FORWARD FLOWS AND RECYCLED FLOWS.

PRIMARY HOLDING TANK SECTION

- THROTTUNG VALVE(S), LIFTING CHAINS AND PIPING UNIONS (IF APPLICABLE) TO BE LOCATED 16" (MAX) FROM TOP OF RIBER. SEE WITP SYSTEM HYDRAULC PROFILE FOR INVERT AND FLOAT ELEVATIONS.
- CHEMICAL FEEDS SHOWN, ARE "IF SPECIFIED".
 CONSULT TECHNICAL MANUAL FOR EQUIPMENT AND ELECTRICAL DETAILS.
- CONSULT CONTROL PANEL'S FIELD WRING DIAGRAM (SHIPPED IN PANEL) FOR REQUIREMENTS.
- TANK RISER LENGHTS TO BE DETERMINED AND INSTALLED SEPERATELY. FOLLOW ALL FRP TANK INSTALLATION INSTRUCTIONS.
- FOR INSTALLATION AND BACKFILLING INSTRUCTIONS CONSULT AND ADHERE TO THE FRP TANK MANUAL. IF INSTALLED IN SEASONAL GROUNDWATER CONTACT ENGINEER TO SPECIFY ANCHORING & CONCRETE DEADMAN REQUIREMENTS. MAXIMUM OVERBURDEN NOT TO EXCEED 6' WITHOUT WRITTEN AUTHORIZATION FROM THE MANUFACTURER.
- AQUACELL PROCESS REACTOR(S) MUST BE PRECEDED BY PRIMARY SETTLING OR SCREENING AND FOLLOWED BY SECONDARY CLARIFICATION
- FIELD AIR PINIG SHALL BE SCHO 80 CPVC, GALVANZED OR STANLESS STEEL, BY CONTRACTOR. (IF APPLICABLE)
 FIRE SLIDE RALL SUPPORT, SHIPED LOSE WITH HARDWARE, INSTALLED BY CONTRACTOR. (IF APPLICABLE)
 SIZE AND QUANTITY OF MIXENS WILL DEPEND ON TAKK SIZE AND SECRETRY. (If APPLICABLE)
 TAKK RISER ABOVE MIXER MUST BE TALL ENDUGH-FOR MIXEN SESDBLY AND SUTABLE HEADSPACE. (IF APPLICABLE)
 STANDARD PUMPED NIET ASSENDER! YOUNGLARTION SHOWN, SEE DETWIL. SEE TECHNICAL MANUAL FOR ANY AND SPECIFO REQUIREMENTS.
 IF FLOW BY GRAMITY, INFLUENT STRUCTURE TO BE A SUTFABLE SIZED PIPE & NIET TEE, WITH INVERT 6" (MIN) ABOVE WATER LEVEL. PROCESS TANK NOTES.

 1 TANK PEPCIED IS MEAN 1

 2 HROTLUNG VALVE(S), ILL

 4 SEE WYP SYSTEM HYDRA 1

 5 CHANGAL TEEDS SHOWN 1

 6 CONSULT TICHNICAL WANT 1

 7 CONSULT TICHNICAL PAREIN 1

 10 FINSTALLED IN SEASON 1

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 16 TANK RISER ABOVE MIXE 1

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15,000 GALLON FRP HOLDING TANK NOT TO SCALE