

January 28, 2022

Nicholas Fields Kentucky Department for Environmental Protection **Division of Enforcement** 300 Sower Blvd., 3rd Floor Frankfort, KY 40601

Bluegrass Water Utility Operating Company, Inc. Persimmon Ridge WWTF KYPDES Permit No. KY0077674 Agency Interest No. 458

On behalf of Bluegrass Water Utility Operating Company, LLC, we are submitting this letter to address the current Corrective Action Plan status that was approved January 29, 2020. We are continuing to work to effluent compliance for this facility.

Per the original CAP, Bluegrass Water UOC continues to make improvements stipulated on the submitted construction permit. Due to the effect of COVID-19, our contractors have encountered delays on supplies and materials on common good & services. With uncertainty of material deliveries and unexpected changes to our timeframe for completion, Bluegrass Water Utility Operating Company, LLS determined that the repairs at Persimmon Ridge will be completed by October 1, 2022. Following the improvements included in the construction permit the facility should be able to consistently comply with permitted limits.

Please let me know if this letter meets the status report requirements of achieving system compliance.

LUJ

Enrique Chavez Jr. Bluegrass Water Utility Operating Company, LLC Utility Project Manager









January 28, 2022

Nicholas Fields Kentucky Department for Environmental Protection Division of Enforcement 300 Sower Blvd., 3rd Floor Frankfort, KY 40601

Bluegrass Water Utility Operating Company, Inc. River Bluffs Subdivision WWTF KYPDES Permit No. KY0043150 Agency Interest No. 3367

On behalf of Bluegrass Water Utility Operating Company, LLC, we are submitting this letter to address the current Corrective Action Plan status that was approved November 12, 2020. We are continuing to work to effluent compliance for this facility.

Per the original CAP, Bluegrass Water UOC continues to make improvements stipulated on our initial assessment. Due to the effect of COVID-19, our contractors have encountered delays on supplies and materials on common goods & services. With uncertainty of material deliveries and unexpected changes to our timeframe for completion, Bluegrass Water Utility Operating Company, LLS determined the repairs at River Bluffs Subdivision will be completed by October 1, 2022. Following the improvements included in the corrective action plan, the facility should be able to consistently comply with permitted limits.

Please let me know if this letter meets the status report requirements of achieving system compliance.

In 1/2

Enrique Chavez Jr. Bluegrass Water Utility Operating Company, LLC Utility Project Manager







Attn: Wes Dement Energy and Environment Cabinet, Department for Environmental Protection Division of Enforcement 300 Sower Blvd 3rd floor Frankfort, KY 40601

Mr. Wes Dement,

In accordance with the Corrective Action Plan for Persimmon Ridge WWTF (KY0090956) submitted to the EEC on 12/13/2019 and approved by the Department on 1/29/2020 I hereby submit this status report concerning improvements made to the facility and next steps.

In the original CAP plan documents, it was conveyed that an analysis of the system implied that following the operational and physical repairs and improvements detailed in the CAP the wastewater treatment facility may be capable of meeting limits.

The CAP laid out milestones for repairs, evaluation, and basic improvements at the facility. The milestones included repair of the baffle in the second lagoon cell, installation of scales for the chlorination and dechlorination chemicals, installation of a flow meter and remote monitoring system, and cleaning and jetting of the collection system.

Additionally, an improved aeration system was installed in the first cell of the lagoon as part of a pilot study. All improvements were completed inside of the timelines projected and the facility has met limits since May of this year. The new aeration system has improved the performance of the treatment plant and will be cycled on and off as part of the pilot study to determine the effectiveness of the equipment. Pending the results of the study, additional units may be added in the next few years, however the single unit in the pilot may be adequate to allow the facility to consistently meet limits.

Additionally, we are evaluating switching from chlorine and dechlorination to peroxyacetic acid and post aeration for disinfection at some point in the future to reduce operational costs. Should these additional improvements be pursued, BWUOC will submit construction permits for review by EEC/DEP and KYPSC.

Please feel free to reach out for any additional information or with any questions.

Thanks,

JON MEANY Utility Engineer 🔎 (314) 380-8537 Ext. 215

- (314) 482-0342
- (314) 736-4759
- ☑ jmeany@cswrgroup.com
- 1650 Des Peres Rd., Suite 303, Des Peres, MO 63131

1650 Des Peres Rd, Suite 303, St. Louis, MO 63131 www.centralstateswaterresources.com



February 15, 2022

Nicholas Fields Kentucky Department for Environmental Protection Division of Enforcement 300 Sower Blvd., 3rd Floor Frankfort, KY 40601

Bluegrass Water Utility Operating Company, Inc. LH Treatment WWTF KYPDES Permit No. KY0081591 Agency Interest No. 8083

On behalf of Bluegrass Water Utility Operating Company, LLC, we are submitting this letter per KDEP's requirement consistent with the current Corrective Action Plan (CAP) plan approved by KDEP on February 17, 2020. Additionally, a revised CAP was submitted on February 24, 2021, that stated the facility would be compliant by February 18, 2022.

Construction was recently completed at this facility including all the repairs and upgrades proposed by our third-party engineering firm. The facility effluent will be complaint with the operating permit on February 18, 2022.

Please let me know if this letter meets the status report requirements of achieving system compliance.

LUJ

Enrique Chavez Jr. Bluegrass Water Utility Operating Company, LLC Utility Project Manager







September 23, 2022

Nicholas Fields Kentucky Department for Environmental Protection Division of Enforcement 300 Sower Blvd., 3rd Floor Frankfort, KY 40601

Bluegrass Water Utility Operating Company, Inc. Persimmon Ridge WWTF KYPDES Permit No. KY0077674 Agency Interest No. 458

On behalf of Bluegrass Water Utility Operating Company, LLC, we are submitting this letter to address the current Corrective Action Plan status that was approved January 29, 2020. BWUOC submitted an extension request on January 28, 2022, with a projected completion date of October 1, 2022. We are continuing to work to effluent compliance for this facility.

Per the original CAP, Bluegrass Water UOC continues to make improvements stipulated on the submitted construction permit. BWOUC continues to encounter delays with materials for the on-going capital improvements project. With uncertainty of material deliveries and unexpected changes to our timeframe for completion, Bluegrass Water Utility Operating Company, LLS determined that the repairs at Persimmon Ridge will be completed by March 31, 2023. Following the improvements included in the construction permit the facility should be able to consistently comply with permitted limits.

Please let me know if this letter meets the status report requirements of achieving system compliance.

LAI

Enrique Chavez Jr. Bluegrass Water Utility Operating Company, LLC Utility Project Manager







September 23, 2022

Nicholas Fields Kentucky Department for Environmental Protection Division of Enforcement 300 Sower Blvd., 3rd Floor Frankfort, KY 40601

Bluegrass Water Utility Operating Company, Inc. River Bluffs Subdivision WWTF KYPDES Permit No. KY0043150 Agency Interest No. 3367

On behalf of Bluegrass Water Utility Operating Company, LLC, we are submitting this letter to address the current Corrective Action Plan status that was approved November 12, 2020. BWUOC submitted an extension request on January 28, 2022, with a projected completion date of October 1, 2022. We are continuing to work to effluent compliance for this facility.

Per the original CAP, Bluegrass Water UOC continues to make improvements stipulated on the submitted construction permit. BWOUC continues to encounter delays with materials for the on-going capital improvements project for the blower upgrades and the disinfection system expansion. With uncertainty of material deliveries and unexpected changes to our timeframe for completion, Bluegrass Water Utility Operating Company, LLS determined that the repairs at River Bluffs will be completed by March 31, 2023. Following the improvements included in the construction permit the facility should be able to consistently comply with permitted limits.

Please let me know if this letter meets the status report requirements of achieving system compliance.

an).

Enrique Chavez Jr. Bluegrass Water Utility Operating Company, LLC Utility Project Manager







March 14, 2023

Nicholas Fields Kentucky Department for Environmental Protection Division of Enforcement 300 Sower Blvd., 3rd Floor Frankfort, KY 40601

Bluegrass Water Utility Operating Company, Inc. Persimmon Ridge WWTF KYPDES Permit No. KY0077674 Agency Interest No. 458

On behalf of Bluegrass Water Utility Operating Company, LLC, we are submitting this letter to address the current Corrective Action Plan status that was approved January 29, 2020. BWUOC submitted an extension request on September 23, 2022, with a projected completion date of March 31, 2023. We are continuing to work to effluent compliance for this facility.

Per the original CAP, Bluegrass Water UOC continues to make improvements stipulated on the submitted construction permit. BWOUC received the construction permit approval from EEC on February 22, 2023, and our third-party engineer submitted design plans and specification on November 28, 2022. L Keeley Construction commenced the bidding process on January 24, 2023, under the guidance of BWOUC. Bluegrass Water Utility Operating Company, LLC determined the Moving Bed Biological Reactor Installation Project at Persimmon Ridge will take roughly 12 months to be completed and the project to be finalized by March 31, 2024. Following the improvements included in the construction permit the facility should be able to consistently comply with permitted limits.

Please let me know if this letter meets the status report requirements of achieving system compliance.

LMI

Enrique Chavez Jr. Bluegrass Water Utility Operating Company, LLC Program & Compliance Manager







March 14, 2023

Nicholas Fields Kentucky Department for Environmental Protection Division of Enforcement 300 Sower Blvd., 3rd Floor Frankfort, KY 40601

Bluegrass Water Utility Operating Company, Inc. River Bluffs Subdivision WWTF KYPDES Permit No. KY0043150 Agency Interest No. 3367

On behalf of Bluegrass Water Utility Operating Company, LLC, we are submitting this letter to address the current Corrective Action Plan status that was approved November 12, 2020. BWUOC submitted an extension request on September 23, 2022, with a projected completion date of March 31, 2023. We are continuing to work to effluent compliance for this facility.

Per the original CAP, Bluegrass Water UOC continues to make improvements stipulated on the submitted construction permit. BWOUC continues to encounter delays with materials for the on-going capital improvements project for the blower upgrades and the disinfection system expansion. Our general contractor completed the decommission and installation of half of the blower installation project. With uncertainty of material deliveries, prolonged lead times and unexpected changes to our timeframe for completion, Bluegrass Water Utility Operating Company, LLS determined that the repairs at River Bluffs will be completed by December 31, 2023. Following the improvements included in the construction permit the facility should be able to consistently comply with permitted limits.

Please let me know if this letter meets the status report requirements of achieving system compliance.

an)

Enrique Chavez Jr. Bluegrass Water Utility Operating Company, LLC Program & Compliance Manager





CASE CLOSURE MEMORANDUM

TO:	Natalie Bruner, Director
	Division of Enforcement
THROUGH:	Justin T. Schul, Branch Manager
	Division of Enforcement
	E-Signed by Schul, Justin VERIFY authenticity with eSign Desktop
FROM:	Nicholas Fields, Enforcement Specialist
	Division of Enforcement
DATE:	February 21, 2022
SUBJECT:	Closure: Longview Homestead WWTP (Bluegrass) AI ID: 8083 AI Name: Longview Country Club Activity ID: ERF20190002 Scott County Case No.: DOW 19-3-0154
• The Lo	ongview Country Club WWTP was originally referred to the DENF in 2018 for an extensive amount

- of permit parameter violations.
 The Cabinet entered into an Agreed Order with the Longview Country Club on September 3, 2019. The
- The Cabinet entered into an Agreed Order with the Longview Country Club on September 3, 2019. The Agreed Order required the country club to pay a \$4,000 civil penalty and submit a Corrective Action Plan to address the issues being experienced at the WWTP.
- The civil penalty was paid in full on January 4, 2019 and a CAP was accepted on January 16, 2019.
- Shortly after the execution of the Agreed Order, Bluegrass Water Utility Operating Company purchased the country club's WWTP. The case with the country club was later closed on November 8, 2019.
- Once Bluegrass Operating took ownership of the WWTP, the Cabinet entered into a friendly Agreed Order with Bluegrass to allow them to remediate the ailing treatment plant.
- A CAP from bluegrass was submitted and approved on February 17, 2020. This CAP was amended in 2021 due to the COVID-19 Pandemic, and gave a new final compliance date of February 18, 2022.
- DENF recently received documentation from Bluegrass stating that all upgrades and construction had been completed at the WWTP and the treatment plant was operating in compliance.
- The compliance and operations branch agrees with the closing of this case.
- With the above-stated facts in mind, and with your initials above, this case will be closed in the DENF.

	Commonwealth of Kentucky Energy and Environment Cabinet Division for Water CONSTRUCTION PERMIT APPLICATION <i>APPLICATION</i> <i>for CLEAN WATER</i> <i>COLLECTION</i> <i>Lick here for Instructions</i> <i>Click here for Instructions</i> for more information about selected portions of this application. Questions on completing this application? Contact the Water Infrastructure Branch at 502/564-3410 or visit our website at https://eec.ky.gov/Environmental. Protection/Water/PermitCert/Pages/WWCSConst.aspx for more information. (*) indicates a required field; (~) indicates a field may be required based on user input or is an optionally required field				
I. Construction Project Information					
Project Name(*) R&L Carriers - Georgetown	Name of WWTP which will treat sewage from this project:(*) Delaplain Disposal Co.				
KPDES Number of the WWTP:(*)	WWTP County:(*)				
KY0079049	Scott				
Project County(*) Project Latitude (INAD83): DMS to Scott 38.271389	Decimal Degrees, DD Converter -84.551111				
11 Digit Hydrologic Unit Code (HUC):(*) [Estimated construction cost of this project: (*)				
North Elkhorn Creek 280(05100205280)	95,000				
Is this a funded project?(*) 2	No				
If the project is funded, provide the applicable funding checklist. Information on the SRF checklist can be found at https://eec.ky.gov/Environmental-	Upload Checklist File				

Protection/Water/Funding/CWSRF/Pages/default.aspx.

least 1 printed copy of specifications.

	At least one paper printed set of detailed plans (no larger than 24" X 36") and a PDF copy of plans and specifications on CD/DVD/Uploaded. The PDF copy shall contain a stamp, signature, and date. The plans on the CD/DVD shall be in a folder called "Engineering Plans" and the specifications manual shall be in a folder called "Specifications". Upload File(s)						
Ø	A digital set of detailed plans and specifications for projects being submitted electronically. The plans and specifications manual should be attached as separate PDF files with a single file for each document (e.g. do not submit multiple PDFs for a single set of plans). Upload File(s) (4) R+L CARRIERS - Georgetown, KY -Final Engineering Plans- 2022-08-15.pdf						
B. Design Engin	eer, if the sewer line	s will become part of	f a sewer sy	/stem ser	ved by a region	al facil	lity. [Section 6]
P.E. First Name:(*)]		t Name:(*)		
Jim			lovine	lli			
PE Firm Name:(*	·)						
Manhard Cons	ulting						
Address:(*)		City:(*)		State:(*)			Zip Code:(*)
700 Springer D	Prive	Lombard		Illinoi	S	•	60148
Phone Number: ((*)	Fax Number:			E-Mail Addre	ess:(*)	
630-925-1110			jiovinelli@manh				
C. Conformity to constructed facili system served by	ty conforms to the ap a regional facility, th	cations. Provide nam oproved plans and sp nis person must be a	ecifications	s. If the se	inspect and ce wer lines will b	ertify th ecome	at the
C. Conformity to constructed facili system served by Copy Design E	ty conforms to the ap a regional facility, th angineer Information	cations. Provide nam oproved plans and sp nis person must be a	profession	s. If the se al enginee	inspect and ce wer lines will b er (P.E.). [Section	ertify th ecome	at the
C. Conformity to constructed facili system served by	ty conforms to the ap a regional facility, th angineer Information	cations. Provide nam oproved plans and sp nis person must be a	profession	s. If the se al enginee t Name:(*	inspect and ce wer lines will b er (P.E.). [Section	ertify th ecome	at the
C. Conformity to constructed facili system served by Copy Design E P.E. First Name:(Joe	ty conforms to the ap a regional facility, th angineer Information	cations. Provide nam oproved plans and sp nis person must be a	P.E. Las	s. If the se al enginee t Name:(*	inspect and ce wer lines will b er (P.E.). [Section	ertify th ecome	at the
C. Conformity to constructed facili system served by Copy Design E P.E. First Name:(Joe	ty conforms to the ap a regional facility, the ingineer Information *)	cations. Provide nam oproved plans and sp nis person must be a	P.E. Las	s. If the se al enginee t Name:(*	inspect and ce wer lines will b er (P.E.). [Section	ertify th ecome	at the
C. Conformity to constructed facili system served by Copy Design E P.E. First Name:(Joe Inspector:(*)	ty conforms to the ap a regional facility, the ingineer Information *)	cations. Provide name oproved plans and sp nis person must be a	P.E. Las	s. If the se al enginee t Name:(*	inspect and ce wer lines will b er (P.E.). [Section	ertify th ecome	at the
C. Conformity to constructed facili system served by Copy Design E P.E. First Name:(Joe Inspector:(*) Manhard Cons	ty conforms to the ap a regional facility, the ingineer Information *) ulting	cations. Provide nan oproved plans and sp nis person must be a n	P.E. Las	s. If the se al enginee t Name:(*	inspect and ce wer lines will b er (P.E.). [Section	ertify th ecome	at the part of a sewer
C. Conformity to constructed facili system served by Copy Design E P.E. First Name:(Joe Inspector:(*) Manhard Cons Address: (*)	ty conforms to the ap (a regional facility, the ingineer Information *) ulting prive	cations. Provide nan opproved plans and sp nis person must be a n	P.E. Las	s. If the se al enginee t Name:(* lli State:(*,	inspect and ce wer lines will b er (P.E.). [Section	ertify th ecome on 3]	Zip Code:(*)
C. Conformity to constructed facili system served by Copy Design E P.E. First Name:(Joe Inspector:(*) Manhard Cons Address: (*) 700 Springer D	ty conforms to the ap (a regional facility, the ingineer Information *) ulting prive	cations. Provide namo oproved plans and sp nis person must be a n City: (*) Lombard	P.E. Las	s. If the se al enginee t Name:(* lli State:(*,	inspect and ce wer lines will b er (P.E.). [Section)	ertify th ecome on 3]	Zip Code:(*)
C. Conformity to constructed facili system served by Copy Design E P.E. First Name:(Joe Inspector:(*) Manhard Cons Address: (*) 700 Springer D Phone Number:(*	ty conforms to the ap y a regional facility, the ingineer Information *) ulting Prive *)	City: (*) City: (*) Cations	P.E. Las	s. If the se al enginee t Name:(* lli State:(*,	inspect and ce wer lines will b er (P.E.). [Section) ucky E-Mail Addre	ertify th ecome on 3]	Zip Code:(*)
C. Conformity to constructed facili system served by Copy Design E P.E. First Name:(Joe Inspector:(*) Manhard Cons Address: (*) 700 Springer D Phone Number:(* 630-925-1110	ty conforms to the ap y a regional facility, the ingineer Information *) ulting brive *) cities.	City: (*) City: (*) Cations	P.E. Las	s. If the se al enginee t Name:(* lli State:(*,	inspect and ce wer lines will b er (P.E.). [Section) ucky E-Mail Addre	ertify th ecome on 3]	Zip Code:(*)
C. Conformity to constructed facili system served by Copy Design E P.E. First Name:(Joe Inspector:(*) Manhard Cons Address: (*) 700 Springer D Phone Number:(* 630-925-1110 D. Design Capac	ty conforms to the ap y a regional facility, the ingineer Information *) ulting brive *) cities.	cations. Provide name opproved plans and sp nis person must be a n City: (*) Lombard Fax Number: ####################################	P.E. Las	s. If the se al enginee t Name:(* lli State:(*, Kentu	inspect and ce wer lines will b er (P.E.). [Section) ucky E-Mail Addre jiovinelli@r	ertify th ecome on 3]	Zip Code:(*) 60148
C. Conformity to constructed facili system served by Copy Design E P.E. First Name:(Joe Inspector:(*) Manhard Cons Address: (*) 700 Springer D Phone Number:(* 630-925-1110 D. Design Capac	ty conforms to the ap y a regional facility, the ingineer Information *) ulting brive *) cities. Irces	cations. Provide name opproved plans and sp nis person must be a n City: (*) Lombard Fax Number: ####################################	P.E. Las	s. If the se al enginee t Name:(* lli State:(*, Kentu	inspect and ce wer lines will b er (P.E.). [Section) ucky E-Mail Addre jiovinelli@r	v v v v v v v v v v v v v v v v v v v	Zip Code:(*) 60148

Apartments						
Incorporated Area						
Other	1 10/10/2022					
line extension (gp	Perage daily flow added by the sewer dd):(*) If Additional Flow is Zero, what is the current daily flow (gpd):					
5600						
The basis for the	amount of additional flow:(*)					
New cross dock	c facility and maintenance garage.					
	tion to be OTHER INFORMATION TO BE SUBMITTED WITH APPLICATION. Place a check e included in this application.					
✓1.	A copy of a USGS 7 ¹ / ₂ minute topographic map with the locations of the proposed project shown. [Section 3]					
2.	If modifying, replacing or abandoning an existing facility, a closure plan indicating how the new facility will be constructed without a by-pass to a stream and the procedures that will be used for abandoning the existing facility. [Section 3]					
✓3.	If the project includes a pump station, provide the pump performance curve, design calculations, and detailed wet well drawing with elevations. [Section 8]					
✓4.	If the project includes gravity sewer lines or force mains, a plan view and a profile view of each. [Section 6]					
5.	A model of the hydraulic analysis if the project consists of, or is connected to a network of pumps.[Section 8].					
✓6.	A brief description of the project, including what is being constructed, who will be served by this project, the flow rate, and flow rate calculations. [Section 8]					
✓7.	A signed letter from the owner of the proposed sewer line stating that the owner will accept responsibility for the operation and maintenance of the sewer line when it is constructed. [Section 8]					
✓8.	A signed letters from both the owner of the receiving sewer system and the WWTP stating that they approve the connection and accept responsibility for the additional flow. [Section 8]					
9.	A written statement that the portion of the sewer system used by the connection has adequate capacity to transport the current and anticipated peak flow to the WWTP and that the portion of the sewer system used by the connection is not subject to excessive infiltration or excessive inflow. [Section 8]					
10.	Is the receiving WWTP on sewer sanction?(*)					
	No					

If yes, the following exemption form is required. The following link lists WWTPs on sanction (click here).

Have all the items above been read and considered?(*)

No

Upload Checklist File(s)

(7, 8, 9, 10) Bluegrass Water Utility Operating Co. Utility Serivices Agreement (SIGNED).pdf

(6) Project Description.pdf

(4) R+L CARRIERS - Georgetown, KY -Final Engineering Plans- 2022-08-15.pdf

(3) Lift Station Calculations & Drawings.pdf

(1) - USGS Topographic Map.pdf

(0) EEC Form S-1 - SIGNED.pdf

IV. Environmental Benefits

Check all the items that apply. Identify the environmental benifit(s) of the project.

Construction of a new sewer lines to service previously non-sewer customers. Number of connections to these customers:
Upgrading of existing sewer lines. Reduction of I&I, CSO, or SSO problems.
Elimination of package plant. KPDES Number of the WWTP:
Elimination of failing septic tanks. Number removed:
Elimination of straight pipe. Number removed:
Other: Provide a brief description in the space below. installing oil and water separator, extended water detention and providing soil and erosion control measures

Yes

V. Fees

?

Check or money order must be made payable to **"Kentucky State Treasurer"** for the total amount. **Fees do not apply** for a municipality, sanitation district, or other publicly owned facility.

Sewer Collection Project Category/Total Amount:(*)

Intermediate Facility: \$400

V

▼

▼

Fees do not apply for a municipality, sanitation

district, or other publicly owned facility.	
No Payment Required: \$ 0 (that payment will be or has previously been mailed) Small Facility: \$ 200 (Pump station or sewer line or force main less than 2,500 feet in length) Intermediate Facility: \$ 400 (Pump station or sewer line or force main 2,500 to 5,000 feet in length) Large facility: \$ 800 (Pump station or sewer line or force main more than 5,000 feet in length)	
VI. Certification	
I, the applicant, certify under penalty of law that this docun direction or supervision. The information submitted is, to th complete. I am aware that there are significant penalties for fine or imprisonment or both for known violations. [Section	e best of my knowledge and belief, true, accurate, and or submitting false information, including the possibility of
Phone Number:(*)	630-925-1069
Signature:(*)	Todd Nobles
Signature Date(*)	08/19/2022
Applicant's Name and Official Title:(*)	Todd Nobles - Staff Engineer
Click to Save Values for Future Retrieval Continue	to Pre-Payment

Frankfort, Kentucky 40601 Phone: (502) 564-2150

> Fax: 502-564-4245 April 13, 2023

Josiah Cox Persimmon Ridge Subd & WWTP 500 Northwest Plaza Dr Ste 500 Saint Ann MO 63074

> Re: **KPDES** Application Complete KPDES No.: KY0090956 AI ID: 3955 Jefferson County, Kentucky

Your Kentucky Pollutant Discharge Elimination System (KPDES) permit application for the above-referenced facility was received by the Division of Water on April 10, 2023 and a response to a Notice of Deficiency received on April 13, 2023. A completeness review of your permit application has been conducted and your application has been determined to be administratively complete. This means that your application will now be assigned to a technical reviewer. Please be aware that you may be asked to provide additional information to clarify, modify, or supplement your application material. In accordance with 401 KAR 5:075, Section 1 you are being provided written notification that your application has been deemed complete as of the date of this letter.

If you have any questions concerning this matter, please contact 502-782-1363 or by email at joy.haden@ky.gov.

Sincerely,

Joy Haden Surface Water Permits Branch Division of Water

Juy Had



Anthony R. Hatton COMMISSIONER



ENERGY AND ENVIRONMENT CABINET

DEPARTMENT FOR ENVIRONMENTAL PROTECTION 300 Sower Boulevard

GOVERNOR

Andy Beshear

Dear Josiah Cox :

@KentuckyEEC | EEC.KY.GOV



Andy Beshear ENEI GOVERNOR DEPA

ENERGY AND ENVIRONMENT CABINET

DEPARTMENT FOR ENVIRONMENTAL PROTECTION

300 Sower Boulevard Frankfort, Kentucky 40601 Phone: (502) 564-2150 Fax: 502-564-4245

April 11, 2023

Persimmon Ridge Subd & WWTP 72 Persimmon Ridge Dr Louisville, KY 40245

> Re: KPDES Application Notice of Deficiency KPDES No.: KY0090956 AI ID: 3955 Jefferson County, Kentucky

Dear Mandy Sappington:

Your Kentucky Pollutant Discharge Elimination System (KPDES) permit application for the above-referenced facility was received by the Division of Water on April 10, 2023, A completeness review of your permit application has been conducted and your application has been determined to be incomplete. Please complete the deficiencies listed below and return to me at the following address within thirty (30) days of the date of this letter.

Division of Water, Surface Water Permits Branch ATTN: Joy Haden 300 Sower Blvd Frankfort, Kentucky 40601

- 1. Form SC: Section IV: Please enter the Population Served and the Total Population Served. This should be the number of individuals in the neighborhood the WWTP serves.
- 2. Form SC: Section VI: Please enter the Temperature (winter) and Temperature(summer).
- 3. Form SC: Section VII: Since information has been added to the form, please sign the form again and add the current date.

Failure to respond within thirty (30) days may result in the Cabinet returning your application to you and retaining fees paid, as per 401 KAR 5:075, Section 15(5). If you have any questions concerning this matter, please contact 502-782-1363 or by email at joy.haden@ky.gov.

Sincerely,

Joy Hal

Joy Haden Surface Water Permits Branch Division of Water





SECRETARY
Anthony R. Hatton

COMMISSIONER



See the INSTRUCTIONS for more information about selected portions of this application. Questions on completing this application? Contact the Water Infrastructure Branch at 502/564-3410 or visit our website at <u>http://water.ky.gov</u> for more information.

I. Co	NSTRUCTION PROJECT INFORMATION				
Project	Name:				
Project City/County: Name of WWTP:					
Estimate	ed cost of WWTP improvements and sewer line extension: \$				
Project	is: WWTP Only WWTP with sewer lines				
	Minor Modification to WWTP (Complete only Sections I, II, IV A, B, C, E3, H1, VII, VIII)				
II. Appl	LICANT INFORMATION				
Applican	nt (Entity paying for construction):E-mail:				
Street A	ddress:				
City, Sta	ate, Zip:				
Will own	ership be transferred? U Yes. Name of new owner: No				
III. PRELI	IMINARY SUBMITTAL				
Has a Pr	reliminary Submittal been made with all the information in this section? [See 401 KAR 5:005, Section 3]				
Yes.	Name of project:				
	County and Location of project, then skip to next section:				
🗖 No.	Provide the information below that has not been previously submitted (use additional pages, as necessary). Place a check				
	(\checkmark) by the items included in the application or an N/A if the item is not applicable to the project.				
	A. A copy of a 71/2 minute USGS topographic map, with the WWTP, any proposed sewer lines, service area, and				
	discharge location identified.				
	B. For a WWTP located within a planning area, a letter from the regional or facility planning agency stating the				
	proposed WWTP is compatible with the regional facility plan or the water quality management plan.				
	C. For a WWTP located within a planning area, a demonstration that a connection to the regional facility is not available.				
	D. For a regional WWTP, a water quality management plan that is in compliance with 401 KAR 5:006.				

IV. DESIGN CONSIDERATIONS

A. PLANS AND SPECIFICATIONS.

Design plans and specifications shall comply with 401 KAR 5:005 and "Recommended Standards for Wastewater Facilities" ("Ten States' Standards") 2014 edition. If engineering practices, other than those contained in "Ten States' Standards", were used in the design, indicate the source and the corresponding portion of the design. [See 401 KAR 5:005, Section 7]

Plans and specifications submittals shall meet on of the following options:

- Submit at least one paper printed set of detailed plans (no larger than 24" x 36") and a PDF copy of the plans and specifications on a data storage device such as a USB flash drive. Both copies shall be dated with a stamp, signature of a licensed professional engineer in Kentucky which complies with the requirements of 201 KAR 18:104. The digital plans shall consist of a single pdf file and be in a folder called "Engineering Plans" and the specifications manual shall be in a folder called "Specifications".
- Submit a PDF copy of the plans and specifications digitally via the electronic form on the KY One Stop Business Portal website. The PDF copy shall be dated with stamp and signature of a licensed engineer in Kentucky which complies with the requirements of 201 KAR 18:104 Section 3. The plans shall be submitted as a single pdf file.
- **B. DESIGN ENGINEER, if** the WWTP design capacity is greater than 10,000 gpd or if the sewer lines associated with the WWTP will become part of a sewer system served by a regional facility. **[Section 6]**

P.E.'s Name:	Firm:	
Street Address:		
City, State, Zip:		
Phone:	_Fax:	E-mai:

C. CONFORMITY TO PLANS AND SPECIFICATIONS. Provide name of person who will inspect and certify that the constructed facility conforms to the approved plans and specifications. If the WWTP's design capacity is greater than 10,000 gpd, or if the sewer lines will become part of a sewer system served by a regional facility, this person must be a professional engineer (P.E.). [Section 3]

 D. DESIGN CAPACITIES.
 Provide the following design capacities, in million gallons per day or pounds per day.
 [Section 3]

 Average Daily Flow:
 MGD
 Influent BOD:
 Ib/day

 Peak Daily Flow:
 MGD
 Influent SS:
 Ib/day

 Peak Hourly Flow:
 MGD
 Influent NH₃-N:
 Ib/day

Fax: E-mail:

E. Design Criteria. Provide the following information (use additional pages, as necessary). Place a check (✓) by the items included in the application or an N/A if the item is not applicable to the project.

1. A schematic drawing of the facility layout and explanation of the proposed facility and method of operation. [Section 3]

- 2. WWTP's Reliability Category, Grade A, B, or C: ______. Include a detailed description of the reliability measures that will be used for the WWTP. [Sections 3 and 13]
- 3. A discussion of the design criteria used to size the unit processes. [Section 3]

F. LABORATORY SERVICES. Give name of laboratory that will provide services for self-monitoring and process control. [Section 3] Firm Name:

i inin Name.

Phone:

Street Address:

City, State, Zip:

- G. SITE LOCATION. Place a check (✓) by the items that are included in this application or an N/A if the item is not applicable to the project.
 - 1. Include a plat or survey clearly indicating the site's boundaries, position of proposed facility in reference to the boundaries, and position of dwellings within 200 feet of the WWTP. [Section 3]
 - 2. If an open-top WWTP is closer than 200 feet to the closest dwelling, include what structure or other measures will be used for noise and odor control. [Section 4]
 - 3. For a WWTP with a spray irrigation system, if the distance from the spray field to the property boundary is less than 20 feet, include what protective measures will be used to inhibit spray from crossing property boundary. [Section 21]
- H. OTHER INFORMATION TO BE SUBMITTED WITH APPLICATION. Place a check (✓) by the items that are included in this application or an N/A if the item is not applicable to the project.
 - 1. If modifying or replacing an existing WWTP or sewer line, a closure plan indicating how the new facility will be constructed without a by-pass to a stream and the procedures that will be used for abandoning the existing facility. [Section 3]
 - 2. A Sludge Management Plan for WWTPs, including the sludge processing method and how sludge will be ultimately disposed. [Section 3]
 - 3. If the discharge point does not coincide with a blue line on a USGS map, a copy of a recorded deed, recorded other right of ownership, or recorded right of easement for a corridor to the nearest blue line stream. [Section 3]
 - 4. A description of and detailed specifications for the flow measuring device. [Section 7]
 - 5. If the WWTP discharges to a sinkhole or sinking stream, a plan for a groundwater tracer study (or a previously conducted groundwater tracer study). [Section 4]

V. SEWER LINES

Include the following items for projects that include sewer lines. If project is for only a WWTP, skip to next section. Place a

check (✓) by the items that are included in this application or N/A if the item is not applicable to the project.

- A. If the project includes a pump station, the pump performance curve. [Section 8]
- B. If the project includes gravity sewer lines or force mains, a plan view and profile view for each. [Section 6]
- C. A demonstration that the sewer system has adequate capacity to treat the current and the anticipated flow to the WWTP and that the sewer system is not subject to excessive infiltration or excessive inflow. [Section 8]
- D. A demonstration that the WWTP has adequate capacity to transport the anticipated flow to the WWTP and the WWTP is not subject to excessive infiltration or excessive inflow. [Section 8]

VI. OTHER REQUIRED APPLICATIONS

- A. If the WWTP has a discharge, complete and file with this application: KPDES Application (KPDES Form 1); and Form A, B, C, or Short Form C, as applicable.
- B. If the WWTP does not have a discharge, complete and file with this application the "No Discharge Operating Permit Application, Form ND."

VII. FEES

Fees.	Check or money order must be made payable to "Ker	ntucky State 1	Freasurer"	for the total	amount.	Fees do not	apply for a
municip	pality, sanitation district, or other publicly owned facility.	[Section 5]					

WWTP Category:	Amount:	\$
Sewer Line Category:	Amount:	\$
	Total Amount:	\$

VIII. CERTIFICATION

I, the applicant, certify under penalty of law that this document and all attachments were prepared under my direction or supervision. 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 or imprisonment or both for known violations. **[Section 2]**

Applicant's Name and Official Title (Type or Print)	Phone Number (Include area code)		
Signature (G From	Date		

Commonwealth of Kentucky Energy and Environment Cabinet Division of Water CONSTRUCTION PERMIT APPLICATION for CLEAN WATER COLLECTION SYSTEM
See the INSTRUCTIONS for more information about selected portions of this application. Questions on completing this application? Contact the Water Infrastructure Branch at 502/564-3410 or visit our website at http://water.ky.gov for more information.
I. CONSTRUCTION PROJECT INFORMATION
Project Name: R & L Carriers - Georgetown
Name of WWTP which will treat sewage from this project: Delaplain Disposal Co.
KPDES Number of the WWTP: KYKY0079049 WWTP County:Scott
Name of Receiving Collection System (if different than WWTP):
KPDES Number of Receiving Collection System (if applicable): KY Project County:
Project Latitude/Longitude (DMS): <u>38.270686,-84.550502</u> Estimated Construction Cost: \$ <u>\$95,000</u>
Identify the funding sources for the project:
CWSRF SPAP Other: Private
If the project is SRF, is the SRF Plans and Specs Checklist included?
II. APPLICANT MAILING ADDRESS
Applicant (Entity paying for construction): <u>R & L Investments L.L.C.</u>
Street Address: 600 Gillam Road P.O. Box 800
City, State, Zip: Wilmington, Ohio 45177
Phone: 937-603-3900 Fax: 937-655-2110 E-mail: srichards@rlcarriers.com
Will ownership be transferred? Yes, future owner will be: No
III. DESIGN CONSIDERATIONS
A. PLANS AND SPECIFICATIONS COMPLIANCE REQUIREMENTS:
Design plans and specifications shall comply with 401 KAR 5:005 and "Recommended Standards for Wastewater

FORM S-1

Facilities" ("**Ten States**' **Standards**"), 2014 edition. If engineering practices, other than those contained in "Ten States' **Standards**", were used in the design, indicate the source and the corresponding portion of the design. [See 401 KAR 5:005, Section 7]

Plans and specification submittals shall meet one of the following options:

- Submit at least one paper printed set of detailed plans (no larger than 24" x 36") and a PDF copy of the plans and specifications on a data storage device such as a USB flash drive. Both copies shall be dated with a stamp, signature of a licensed professional engineer in Kentucky which complies with the requirements of 201 KAR 18:104. The plans digital plans shall consist of a single pdf file and be in a folder called "Engineering Plans" and the specifications manual shall be in a folder called "Specifications".
- Submit a PDF copy of the plans and specifications digitally via the electronic form on the KY One Stop Business Portal website. The PDF copy shall be dated with stamp and signature of a licensed engineer in Kentucky which complies with the requirements of 201 KAR 18:104 Section 3. The plans shall be submitted as a single pdf file.
- **B. DESIGN ENGINEER,** if the project will become part of a sewer system served by a regional facility. [Section 6]

P.E.'s Name: <u>Joe</u>	Iovinelli	Firm:Manhard Consulting	
Street Address:	700 Springer Drive		
City, State, Zip:	Lombard, Illinois 60148		
Phone: <u>630-925-</u> 1	1110 Fax:	E-mail:jiovinelli@manhard.com	

C. CONFORMITY TO PLANS AND SPECIFICATIONS. Provide name of person who will inspect and certify that the constructed facility conforms to the approved plans and specifications. If the sewer lines will become part of a sewer system served by a regional facility, this person must be a professional engineer (P.E.). [Section 3] Name: Joe lovinelli Firm: Manhard Consulting Street Address: 700 Springer Drive

 City, State, Zip:
 Lombard, Illinois 60148

 Phone:
 630-925-1110

 Fax:
 E-mail:jiovinelli@manhard.com

- D. DESIGN CAPACITIES. The amount of average daily flow added by the sewer line extension is <u>7600</u> gpd. The basis for the amount of additional flow is <u>New Sanitary Sewer Lines to service site</u>
- E. OTHER INFORMATION TO BE SUBMITTED WITH APPLICATION. Place a check (✓) by the items that are included in this application or an N/A if the item is not applicable to the project.



- A copy of a USGS 7¹/₂ minute topographic map with the locations of the proposed sewer lines shown. [Section 3]
- 2. If modifying, replacing or abandoning an existing facility, a closure plan indicating how the new facility will be constructed without a by-pass to a stream and the procedures that will be used for abandoning the existing facility. [Section 3]



If the project includes a pump station, provide the pump performance curve, design calculations, and detailed wet well drawing with elevations. **[Section 8]**



7.

- If the project includes gravity sewer lines or force mains, a plan view and a profile view of each. **[Section 6]** A model of the hydraulic analysis if the project consists of, or is connected to a network of pumps. **[Section 8]** A brief description of the project, including what is being constructed, who will be served by this project, the flow rate, and the flow rate calculations. **[Section 8]**
- A signed letter from the owner of the proposed sewer line stating that the owner will accept responsibility for









10. A written statement that the WWTP has adequate capacity to treat the current and anticipated flow and is not subject to excessive infiltration or excessive inflow. [Section 8]

IV. Fees

Fees. Check or money order must be made payable to "**Kentucky State Treasurer**" for the total amount. **Fees do not apply** for a municipality, sanitation district, or other publicly owned facility. **[Section 5]** If claiming Non-Profit status, provide proof.

Sewer Collection Project Category: Small Facility : Sewer Lines

Total Amount: \$ 200.00

VI. CERTIFICATION

I, the applicant, certify under penalty of law that this document and all attachments were prepared under my direction or supervision. 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 or imprisonment or both for known violations. **[Section 2]**

Applicant's Name and Official Title (Type or Print)	Phone Number (Include area code)
Todd Nobles	630-925-1069
Signature famer Udse	Date 9-22-2022

Scanning Batch Sheet



FORM S-1a 3955 APE2020001 201ans OSDECS \$200
RECEIVED AN 14 2020 WIB Commonwealth of Kentucky Energy and Environment Cabinet Division of Water CONSTRUCTION PERMIT APPLICATION for CLEAN WATER COLLECTION SYSTEM
See the INSTRUCTIONS for more information about selected portions of this application. Questions on completing this application? Contact the Water Infrastructure Branch at 502/564-3410 or visit our website at http://water.ky.gov for more information.
I. CONSTRUCTION PROJECT INFORMATION
Project Name: Persimmon Ridge Golf Section 19 Sewer Extension
Name of WWTP which will treat sewage from this project: Persimmon Ridge WWTP
KPDES Number of the WWTP: KY0090956WWTP County:_ <u>Shelby</u>
Project County:
Project Latitude/Longitude (DMS) 38-17-42.53N / 85-26-28.05W
Estimated construction cost of this project: \$
Is this a funded project:
CWSRF SPAP Other:
If the answer is yes, provide applicable funding checklist.
II. APPLICANT MAILING ADDRESS
Applicant (Entity paying for construction):Persimmon Ridge Development
Street Address: 72 Persimmon Ridge Drive
City, State, Zip: Louisville, KY 40245
Phone_502-419-4797 FaxE-mail_lajust@persimmonridgedevelopment.com
Will ownership be transferred? Yes, future owner will be: <u>Bluegrass Water</u> No
III. DESIGN CONSIDERATIONS

,

A. PLANS AND SPECIFICATIONS COMPLIANCE REQUIREMENTS:

Design plans and specifications shall comply with **401 KAR 5:005** and "**Recommended Standards for Wastewater Facilities**" ("**Ten States**' **Standards**"). If engineering practices, other than those contained in "Ten States' **Standards**", were used in the design, indicate the source and the corresponding portion of the design. [401 KAR 5:005 Section 7] For plans submitted to this office, one set of plans must have an original signed and dated P.E. stamp. The additional plan sets must have either an original signature and dated stamp, or a legible facsimile thereof. SRF funded projects shall include at least 1 printed copy of specifications.

Plan and specification submittals shall meet one of the following options:

- At least **one** paper printed set of detailed plans (no larger than 24" X 36") **and** a PDF copy of plans and specifications on CD/DVD. The PDF copy shall contain a stamp, signature, and date. The plans on the CD/DVD shall be in a folder called "Engineering Plans" and the specifications manual shall be in a folder called "Specifications".
- X At least **2** paper printed sets of detailed plans (one shall be no larger than 24" X 36" and the other set shall be 11" X 17") and **one** paper copy of the specifications manual.
- **B. DESIGN ENGINEER,** if the sewer lines will become part of a sewer system served by a regional facility. **[Section 6]** P.E.'s Name/Firm: Will Hagan Kerry P. Magan Consulting Engineers, PLC

Street Address:	506 Main Street		
City, State, Zip:	Shelbyville, KY 40065	Phone: (<u>502)633-4365</u>	E-mail haganengineering@gmail.com

C. CONFORMITY TO PLANS AND SPECIFICATIONS. Provide name of person who will inspect and certify that the constructed facility conforms to the approved plans and specifications. If the sewer lines will become part of a sewer system served by a regional facility, this person must be a professional engineer (P.E.). [Section 3]

Name/Firm:	Same as above			
Street Address:				
City, State, Zip:		Phone: ()	E-mail	

- D. DESIGN CAPACITIES. The amount of average daily flow added by the sewer line extension is <u>1076</u> gpd. The basis for the amount of additional flow is <u>269 gallons per day per house with 4 new homes proposed to connect.</u>
- E. OTHER INFORMATION TO BE SUBMITTED WITH APPLICATION. Place a check (x) by the items that are included in this application or an N/A if the item is not applicable to the project.
 - X 1. A copy of a USGS 7½ minute topographic map with the locations of the proposed project shown. [Section 3]
 - <u>N/A</u> 2. If modifying, replacing or abandoning an existing facility, a closure plan indicating how the new facility will be constructed without a by-pass to a stream and the procedures that will be used for abandoning the existing facility. **[Section 3]**
 - <u>N/A</u> 3. If the project includes a pump station, provide the pump performance curve, design calculations, and detailed wet well drawing with elevations. [Section 8]
 - X 4. If the project includes gravity sewer lines or force mains, a plan view and a profile view of each. [Section 6]
 - <u>N/A</u> 5. A model of the hydraulic analysis if the project consists of, or is connected to a network of pumps. [Section 8].
 - X 6. A brief description of the project, including what is being constructed, who will be served by this
 - project, the flow rate, and flow rate calculations. [Section 8]
 - X 7. A signed letter from the owner of the proposed sewer line stating that the owner will accept responsibility for the operation and maintenance of the sewer line when it is constructed. [Section 8]
 - X 8. A signed letters from both the owner of the receiving sewer system and the WWTP stating that they approve the connection and accept responsibility for the additional flow. **[Section 8]**
 - X 9. A written statement that the portion of the sewer system used by the connection has adequate capacity to transport the current and anticipated peak flow to the WWTP and that the portion of the sewer system used by the connection is not subject to excessive infiltration or excessive inflow. [Section 8]
 - N/A 10. A completed sewer sanctions exemption request form has to be submitted, if the receiving WWTP for this

IV. Environmental Benefits

Check all the items that apply. Identify the environmental benefit(s) of the project.

- Construction of a new sewer lines to service previously non-sewer customers. Number of connections to these customers.
- Upgrading of existing sewer lines. Reduction of I&I, CSO, or SSO problems.
- Elimination of package plant. KPDES Number of the WWTP: KY0
- Elimination of failing septic tanks. Number removed
- Elimination of straight pipe. Number removed
- X Other: Provide a brief description in the space below. Private development for 3 new buildable tracts.

V. Fees

Fees. Check or money order must be made payable to "Kentucky State Treasurer" for the total amount. Fees do not apply for a municipality, sanitation district, or other publicly owned facility. [Section 5] If claiming Non-Profit status, provide proof. small

Sewer Collection Project Category:

Total Amount: \$ 200

VI. CERTIFICATION

I, the applicant, certify under penalty of law that this document and all attachments were prepared under my direction or supervision. 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 or imprisonment or both for known violations. [Section 2]

Applicant's Name and Official Title (Type or Print)	Phone Number (Include area code)		
Lawren Just, President	(502) 419-4797		
Signature	Date 1 13 20		



Persimmon Ridge Section 19 Sewer Extension

Shelby County, KY

Project Description and Hydraulic Analysis – January 2020

PROJECT DESCRIPTION:

This project proposes an 1,150 LF 8" PVC gravity sewer extension to pick up 4 new homes in Persimmon Ridge Golf Course Development. Four pre-cast concrete manholes are proposed for this extension and the project will begin at an existing manhole. (see attached USGS exhibit)

SEWER CALCULATIONS:

4 proposed new home sites (a) 269gpd = 1,076gpd

1,076gpd = 0.75gpm x peak factor of 4 = 3.00 gpm peak flow

The 8" PVC gravity sewer for this project maintains a minimum slope of approximately 0.50%. At that slope, the pipe is capable of handling 498gpm, thus exceeding design requirements.



Mr. Terry Humphries, P.E. Supervisor, Engineering Section Water Infrastructure Branch Division of Water 300 Sower Blvd, 3rd Floor Frankfort, Ky. 40601

RE: Sanitary Sewer Line Extension: Persimmon Ridge Golf Course (4 unit single family development)

Dear Mr. Humphries:

Bluegrass Water Utility Operating Company has reviewed and approved the plans and accepts the design for this sewer extension.

The Persimmon Ridge sanitary sewer system has the capacity to transport the additional flow to the WWTF and the portion of the sewer system used by this connection is not subject to excessive infiltration or excessive inflow. Additionally, the Persimmon Ridge WWTF has enough excess capacity to handle the additional flow from the proposed development. We will accept responsibility for the additional flow.

Bluegrass Water Utility Operating Company shall take over the lines upon completion of the project and accept all future operation and maintenance responsibilities.

Jonathan⁶Meany, Utility Engineer Phone: 314-482-0342 Fax: 314-736-4743 Bluegrass Water Utility Operating Company

KERRY P. MAGAN CONSULTING ENGINEERS, PLC 506 Main Street			LETTER OF TRANSMITTAL								
-	ille, KY 4 (502) 633						Date	1/14/2020		Project	
Fax:					Name	Terry Hurr	nphries, PE				
							RE	Persimmo	n Ridge Sec	tion 19 Sew	ver Extension
то	Division of	Water						Shelbyvill	e Mun. Wate	er and Sewe	er Commission
	300 Sower	Lane, 3rd Flo	oor					Shelby Co	unty, KY		
	Frankfort,										
WE ARE	SENDING	YOU 🗹	Attached			Un	der Separa	ate Cover Via	:		_the following items:
		Shop Drawi	ngs 🗆	Prints		V	Plans		Samples		Specifications
		Copy of Let	ter 🗆	Change C	Order						_
COPIES	DATE	NO.						DESCRIPTI	ON		
1	Jan-20		S-1 Constr	uction Peri	mit an	d Cheo	:k				
1	Jan-20		USGS Exh	nibit							
1	Jan-20		Project De	scription w	ith Flo	w and	Pipe Calcu	ulations			
1	Jan-20		Letter from	owner							
2	Jan-20		11x17 Plar	n Set							
THESE AR		IITTED as ch	ecked below	w :							
J	For Approv	val			Арр	roved	as Submit	ted		Resubmit	Copies for Approval
	For Your U	lse			Арр	oroved	as Noted			Submit	_ Copies for Distribution
	As Reques	ted			Ret	urned	for Correct	ions		Return	_ Corrected Prints
	For Review	v and Comme	ent								
	FOR BIDS	DUE						_ 0	PRINTS R	ETURNED	AFTER LOAN TO US
REMARKS											
Techincal s	specification	is for the proj	ect are on t	he attached	d plan	detail	sheet.				
COPY TO:	Address of the second state and second state and a	n Just, Presid	lent PRG				SIGNED	: Will Haga		4	
	File			lf enclosur	es are r	not as no	oted, kindly n	otify us at once	(\mathcal{O}^{*}	

COMMONWEALTH OF KENTUCKY

NATURAL RESOURCES AND ENVIRONMENTAL PROTECTION CABINET DEPARTMENT FOR ENVIRONMENTAL PROTECTION DIVISION OF WATER FRANKFORT, KENTUCKY 40601

PERMIT TO WITHDRAW PUBLIC WATER

Permit Number: 1173

Issued to : Longview Country Club 3243 Frankfort Pike Georgetown, Kentucky 40324

The Natural Resources and Environmental Protection Cabinet authorizes the above named party to withdraw Public Water of the Commonwealth of Kentucky. This permit has been issued under provisions of KRS Chapter 151.140 and 151.150 and regulations promulgated with respect to the withdrawal of public waters. Issuance of this permit does not relieve the permittee from the responsibility of obtaining any other permits or licenses required by this Cabinet, or other state, federal or local agencies. Withdrawals are restricted to the stated quantities, times and locations specified below. This permit represents a limited right of use and does not vest ownership nor absolute right to withdrawal or use of Public Water, nor does it guarantee that requested amounts will be available for use at all times. In times of drought or emergency, the Cabinet may temporarily alter the conditions of the permit. Any violation of the Water Resources Act of 1966 as amended is subject to penalties as set forth in KRS 151.990 and other applicable provisions of law.

The location of the authorized water withdrawal is as follows:

Withdrawals from Longview Golf Course Lake #1 at RMI 0.4 of an unnamed tributary of North Elkhorn Creek, Scott County -- latitude 38°13'12", longitude 84°39'59".

Jan0- MGD	Apr0- MGD	July 0.055 MGD	Oct. 0.055 MGD
Feb0- MGD	May 0.055 MGD	Aug. 0.055 MGD	Nov0- MGD
Mar0- MGD	June 0.055 MGD	Sept. 0.055 MGD	Dec0- MGD

Water withdrawals are limited to the following rates from the specified location:

Limitations to this permit are as follows: Withdrawal rates must be accurately measured by meter or other device, as approved by the Cabinet.

Issued: July 31, 1991

Latest Revision: _

Manager, Water Resources Branch

Manager, Water Resources Branch Division of Water

WALLACE G. WILKINSON GOVERNOR

CARL H. BRADLEY SECRETARY



COMMONWEALTH OF KENTUCKY NATURAL RESOURCES AND ENVIRONMENTAL PROTECTION CABINET DEPARTMENT FOR ENVIRONMENTAL PROTECTION FRANKFORT OFFICE PARK 18 REILLY ROAD FRANKFORT, KENTUCKY 40601

July 31, 1991

ATTN: Pat Winch Longview Country Club 3242 Frankfort Pike Georgetown, KY 40324

Dear Mr. Winch:

This letter accompanies water withdrawal permit #1173, which allows for withdrawals from the club's lake that adjoins their golf course, in Scott County.

KRS 151.160 requires all permit holders to keep a record of all water withdrawn and to submit this information to the Division of Water in a manner prescribed by this Department. At present, we send special reporting forms to permit holders in June and December of each year. According to your application, you are the person who is to be responsible for completing these forms. Therefore, you should record withdrawals on these forms and return them to this office. Withdrawal amounts reported must be accurately measured by meter or mechanical time totalizer, sonic, photoelectric or other device as approved by the Cabinet.

If average monthly withdrawal amounts begin to exceed permitted amounts, or if there is any change in location of withdrawal site, you must contact this office immediately and request revision of this permit.

The issuance of this permit does not release you from the obligation of obtaining any and all other permits which may be required by this Division or other regulatory agencies.

Thank you for your application. Your cooperation is appreciated. If you have any questions, please contact Carol Moore at (502) 564-3410.

Sincerely,

constructura

A. Leon Smothers, Manager Water Resources Branch Division of Water

ALS:CM:els

cc: Brent Combs



UTILITY SERVICES AGREEMENT

This agreement to provide sewer utility services ("Agreement") is entered into this ______ day of ______, 2022 between BLUEGRASS WATER UTILITY OPERATING COMPANY, LLC, a Kentucky limited liability company ("Utility") and RAMAR LAND CORPORATION, an Ohio corporation, ("Developer") (each a "Party" and jointly "the Parties").

WHEREAS, Utility is a limited liability company, organized and existing under the constitution and the laws of the State of Kentucky, with all the requisite power necessary to enter into the Agreement;

WHEREAS, Developer is a corporation, organized and existing under the constitution and the laws of the State of Ohio, with all the requisite power necessary to enter into the Agreement;

WHEREAS, Developer has acquired or will acquire property in the State of Kentucky, County of Scott, being known as R+L Carriers - Georgetown (hereinafter "the Property"), as set out herein on **EXHIBIT A**, attached hereto and incorporated herein; and

WHEREAS, Developer desires, in accordance with applicable state and local zoning and development regulations, to provide all buildings within the Property with central sewer service; and

WHEREAS, Utility is authorized to provide sewer service to the area where the Property is located and desires to own and operate sewer facilities and equipment constructed or installed by Developer to serve structures within the Property;

NOW THEREFORE, for the consideration expressed in the Agreement and subject to all its terms and conditions, the sufficiency of which is hereby acknowledged, the Parties contract and agree as follows:

1. DEFINITIONS

- 1.1 "Accepted Sewage" means domestic sewage such as sewage from residences, office buildings, motels, restaurants and other commercial uses, but expressly excludes: (i) all substances that will damage, clog, or adversely affect lines and facilities owned or operated by Utility, (ii) industrial or toxic wastes, (iii) any other wastes that Utility (or any governmental agency) determines Utility's sewage treatment facilities (and its lines or other facilities) cannot handle, and (iv) storm and rain water.
- **1.2 "Environmental Regulator"** means all state or local governmental agencies regulating the construction of Infrastructure (herein defined) within the Property.
- **1.3 "Final Property Plan"** means the as-recorded official and fully-approved (if governmental approvals are required) map and plat of the Property.
- 1.4 "Infrastructure" means:

Sewer infrastructure including but not limited to, lines, pipes, conduit, tubing, systems, pumps, lift stations, tanks and structures, mechanical apparatus, and facilities constructed, placed, or located by Developer for the receipt and transmission of sewage from the Property.

1.5 "Services" means:

Sewer services, which is the receipt and treatment of Accepted Sewage by Utility from structures within the Property.

- 1.6 "User" means a customer utilizing Services within the Property.
- **1.7** "Utility Construction Requirements" means Utility's construction specifications, notes and details for Infrastructure for the Property.

2. SEWER SYSTEM

- 2.1 Developer shall design and construct, at its sole expense, all Infrastructure within the Property in accordance with engineering plans and specifications of the Developer's engineer prepared in accordance with all applicable governmental standards and regulations and Utility's Utility Construction Requirements. Plans and specifications shall be submitted to Utility for review, and must have received Utility's written approval before construction begins, which approval shall not be reasonably withheld or delayed.
- 2.2 All Infrastructure shall be constructed by a contractor that is selected by Developer and approved by Utility prior to beginning construction, which approval shall not be unreasonably withheld or delayed. The contractor must hold all required state and local licenses and, if required by Utility, must produce a valid Certificate of Insurance showing Utility as an additional insured during construction of the Infrastructure.
- 2.3 Developer must submit, at no charge to Utility, all construction plans and specifications for the Infrastructure. The plans submitted in accordance with this section shall be Developer's plans which have received all required governmental approvals.
- 2.4 Upon completion of the Infrastructure, Developer must submit to Utility, at no charge, three (3) sets of "As Built" construction plans and specifications as well as an electronic copy of all plans in a format acceptable to Utility.

3. EASEMENTS AND REAL PROPERTY

- **3.1** By its execution of the Agreement, Developer grants, conveys, sets over, and assigns unto Utility a non-exclusive easement of use and passage within all utility easements, rights of ways, and streets within the Property as shown on the final subdivision plan or similar document. The easement of passage shall be used by Utility exclusively in connection with the maintenance, construction, and operation of the Infrastructure within the Property. Notwithstanding the foregoing, Developer further agrees to execute assignments, easements, and any additional documents requested by Utility in order to memorialize this grant of easement.
- **3.2** Developer agrees to add the following wording to the final subdivision plan or similar document as recorded in the official real estate records of each county/parish where the Property is located: Bluegrass Water Utility Operating Company, LLC its successors and assigns, is hereby granted the right to construct, maintain, and provide sewer services
within the street rights of way, both public and private, and easements set forth herein and/or hereafter granted and is further granted the exclusive right to provide sewer services as a non-public, investor-owned utility. No single structure sewage treatment may be constructed while sewer service is available from Bluegrass Water Utility Operating Company, LLC

3.3 Upon completion and acceptance by Utility of the facilities to be constructed and installed by Developer in accordance with the Agreement, all Infrastructure shall become the property of Utility, as installed and without the requirement of written documents of transfer. Utility shall own, operate, and maintain such facilities at its sole cost and responsibility and shall have all right, title, and interest as sole owner of those facilities. Notwithstanding the foregoing, Developer shall execute a deed(s), bill of sale and/or other documents reasonably requested by Utility as necessary or desirable, in its sole opinion, to convey to Utility and ensure Utility's ownership of, ready access to, and operations and maintenance of the Infrastructure.

4. WARRANTIES AND REPRESENTATIONS

- **4.1** Upon final acceptance and transfer to Utility of the Infrastructure at Closing (hereinafter defined), Utility will provide Services to Users within the Property.
- **4.2** Upon final acceptance and transfer to Utility of the Infrastructure at Closing, Utility agrees to indemnify and hold harmless Developer from all liability for Services provided to Users.
- **4.3** Developer represents that the Infrastructure is free of real property tax liens, federal or state tax liens, judgment liens, utility liens, assessment liens and that Utility take the Property free of any liens, mortgages, pledges, leases, options, rights of first refusal, conditional sales agreements, encumbrances or other charges. Developer further agrees to indemnify and hold harmless Utility from any and all liability related to construction and transfer of the Infrastructure, including but not limited to all liens and encumbrances that may be filed and/or attached to the Infrastructure at the time of their transfer to Utility in accordance with the Agreement and agrees to cure any title issues related to the same, at the sole cost of Developer.

5. RIGHTS & OBLIGATIONS OF UTILITY AND DEVELOPER

- **5.1** Following final transfer of the Infrastructure at Closing, Utility shall be entitled to charge monthly user fees and connection fees for Services within the Property as set and established by state utility regulatory authorities.
- **5.2** Prior to Closing, Developer or Developer's engineer shall inspect the Infrastructure within the Property during construction and shall be responsible for notifying Utility of any and all deviations from the plans and specifications approved by Utility for construction of the Infrastructure.

- **5.3** Prior to Closing, Developer or Developer's approved contractor shall lamp test or smoke test the Infrastructure related to the sewer system at the cost and expense of Developer. A field supervisor from Utility must be present for all testing.
- 5.4 Prior to Closing, Developer shall deliver to Utility a certification from its approved contractor that the Infrastructure related to the sewer system and its connection to Utility's sewer system has been performed in accordance with the approved plans and specifications and is ready for domestic use.
- Prior to Closing, and upon substantial completion of the Infrastructure within the Property, 5.5 Developer or Developer's approved contractor shall provide a notice of completion to Utility that all work has been substantially completed in accordance with the approved plans and specifications, and further certifying the Infrastructure have been tested in accordance with this section and are approved for use. Utility shall have a period of fourteen (14) days from the date of such notice and receipt of the as-built drawings from Developer's approved contractor to provide Developer a written list of any objections or defects of the Infrastructure. In the event Utility provides a notice and listing of objections and defects within the time specified, then Developer shall have a reasonable period of time within which to take such corrective measures as may be necessary to remove such objections and defects. The standard for any review of objections and defects of the Infrastructure shall be the plans and specifications for Infrastructure approved by Utility. Developer shall provide notice to Utility of completion of work required to remove all objections and defects set forth in Utility's notice, and thereafter Utility shall have seven (7) days within which to provide notice of any additional defects or objections to the Infrastructure. This process of notification by Utility and corrective action by Developer shall continue until all defects and objections have been remedied or corrected to the reasonable satisfaction of Utility.
- **5.6** Upon the transfer from Developer to Utility in accordance with this section, all warranties Developer may have from vendors, manufacturers, contractors, or subcontractors in connection with construction of the Infrastructure shall be assigned and transferred to Utility. Developer further agrees to execute an assignment and any additional documents requested by Utility in order to memorialize this transfer and assignment of warranty.
- 5.7 Each Party agrees to provide reasonable support and assistance required by the other Party to secure governmental approvals, authorizations, and certificates necessary to effectuate the objectives of this Agreement.

6. RATES AND CHARGES

- 6.1 In accordance with its approved rates and tariffs, Utility will charge a sewer tie-in fee, a monthly sewer rate, and any other authorized fees and charges to each builder or User within the Property. Monthly service charges shall begin when the User connects to the Infrastructure.
- 6.2 Utility shall be entitled to charge each builder or User a deposit for sewer tap fees in accordance with its approved tariff.

7. REGULATORY APPROVAL; CLOSING

7.1 Upon receipt of all regulatory approvals, in a form satisfactory to Utility in Utility's sole and absolute discretion, and approval of the Infrastructure by Utility, pursuant to Section 5.6, the Parties shall schedule a Closing on a mutually agreed-upon date and place ("Closing"). At the Closing, Developer shall execute and deliver instruments of conveyance, transferring to Buyer the Infrastructure and any real property interests, including but not limited to easements, required for Utility to provides Services to the Property, free of any and all liens and encumbrances.

8. SPECIFIC PERFORMANCE; DAMAGE; VENUE

- 8.1 If Developer fails to perform its obligations under the Agreement, Utility shall be entitled, at its option, to exercise one or more of the following remedies: (i) specific performance, (ii) compensatory damages, and (iii) rescission and cancellation of this agreement. If Utility elects to exercise its rights under this Section 8, Developer shall pay all costs, attorneys fees, consulting fees and engineering fees, if Utility prevails.
- 8.2 Any and all disputes hereunder shall be exclusively heard in a federal or state court located in St. Louis County, Missouri.

9. NOTICES

9.1 Any notice required or permitted to be given or served by any Party to the other Party shall be deemed given in accordance with the provisions of this Agreement upon the addressee's receipt by the addressee by certified mail, return receipt requested, addressed as follows:

If to Utility:	BLUEGRASS UTILITY OPERATING COMPANY, LLC c/o Josiah Cox, President 1650 Corporate Hill Drive, Suite 303 St. Louis, Missouri 63131
With a Copy to:	James A. Beckemeier Beckemeier LeMoine Law 13421 Manchester Road, Suite 103 St. Louis, MO 63131 Facsimile: (314) 965-0127 Email: jim@bl-stl.com
If to Developer:	RAMAR LAND CORPORATION c/o Stan Richards, Director 4400 Easton Commons Way, Suite 125 Columbus, OH 43219 Phone: (937) 603-3900 Facsimile: Email:

9.2 Any Party may change its address by delivering written notice of such change to the other Party in the manner specified above, with the effective date of the change being ten (10) days from the date of the receipt of the notice of change.

10. CAPTIONS; HEADINGS

10.1 The paragraph headings or captions appearing in this Agreement are for convenience and direction only, are not a part of this Agreement, and are not to be considered in interpreting this Agreement.

11. ENTIRE CONTRACT MODIFICATION

11.1 This written Agreement constitutes the entire and complete agreement among the Parties and supersedes any prior oral or written agreements, letters, or correspondence between the parties regarding matters covered by the Agreement. It is expressly agreed that there are no verbal understandings or agreements that in any way change the terms, covenants, and conditions set forth here, and no modification of this Agreement or waiver of any of its terms and conditions shall be effective unless made in writing and duly executed by all Parties.

12. ASSIGNMENT

12.1 This Agreement shall not be assigned by Developer to any third party without the prior written consent of Utility, which consent shall not unreasonably be withheld. Any assignment must include the express written assent by assignee to assume all obligations of Developer and to be bound by all terms and conditions of this Agreement. Utility shall be permitted to assign its rights in this Agreement to an affiliated entity that Utility controls without need of consent by the Developer by providing written notice to the Developer of such assignment.

13. WARRANTIES

13.1 All covenants, agreements, warranties, representations, and other provisions of the Agreement shall be binding upon and inure to the benefit of the Parties and also to their respective heirs, executors, administrators, representatives, successors, and permitted assigns.

14. SEVERABILITY

14.1 If any of the terms or conditions of this Agreement shall for any reason be held to be invalid, unlawful, or unenforceable in any respect, such invalidity, unlawfulness, or unenforceability shall not affect the other terms and conditions, and thereafter the terms and conditions of the Agreement shall thereafter be construed as if such invalid, illegal or unenforceable terms or conditions had never been included.

IN WITNESS WHEREOF, the Parties have duly executed this Agreement as of the day and year first above written.

UTILITY:

BLUEGRASS WATER UTILITY OPERATING COMPANY, LLC

By: Central States Water Resource, Inc., its manager

By:

Josiah M. Cox, President

DEVELOPER:

RAMAR LAND CORPORATION By: _ Name: STAN KICHARDJ Title: VP - CONSTRUCTION

EXHIBIT A

UTILITY SERVICES AGREEMENT

This agreement to provide sewer utility services ("Agreement") is entered into this 9th day of August, 2022 between **BLUEGRASS WATER UTILITY OPERATING COMPANY, LLC, a Kentucky limited liability company** ("Utility") and **RAMAR LAND CORPORATION, an Ohio corporation**, ("Developer") (each a "Party" and jointly "the Parties").

WHEREAS, Utility is a limited liability company, organized and existing under the constitution and the laws of the State of Kentucky, with all the requisite power necessary to enter into the Agreement;

WHEREAS, Developer is a corporation, organized and existing under the constitution and the laws of the State of Ohio, with all the requisite power necessary to enter into the Agreement;

WHEREAS, Developer has acquired or will acquire property in the State of Kentucky, County of Scott, being known as R+L Carriers - Georgetown (hereinafter "the Property"), as set out herein on **EXHIBIT A**, attached hereto and incorporated herein; and

WHEREAS, Developer desires, in accordance with applicable state and local zoning and development regulations, to provide all buildings within the Property with central sewer service; and

WHEREAS, Utility is authorized to provide sewer service to the area where the Property is located and desires to own and operate sewer facilities and equipment constructed or installed by Developer to serve structures within the Property;

NOW THEREFORE, for the consideration expressed in the Agreement and subject to all its terms and conditions, the sufficiency of which is hereby acknowledged, the Parties contract and agree as follows:

1. DEFINITIONS

- **1.1** "Accepted Sewage" means domestic sewage such as sewage from residences, office buildings, motels, restaurants and other commercial uses, but expressly excludes: (i) all substances that will damage, clog, or adversely affect lines and facilities owned or operated by Utility, (ii) industrial or toxic wastes, (iii) any other wastes that Utility (or any governmental agency) determines Utility's sewage treatment facilities (and its lines or other facilities) cannot handle, and (iv) storm and rain water.
- **1.2 "Environmental Regulator"** means all state or local governmental agencies regulating the construction of Infrastructure (herein defined) within the Property.
- **1.3 "Final Property Plan"** means the as-recorded official and fully-approved (if governmental approvals are required) map and plat of the Property.
- **1.4 "Infrastructure"** means:

Sewer infrastructure including but not limited to, lines, pipes, conduit, tubing, systems, pumps, lift stations, tanks and structures, mechanical apparatus, and facilities constructed, placed, or located by Developer for the receipt and transmission of sewage from the Property.

1.5 "Services" means:

Sewer services, which is the receipt and treatment of Accepted Sewage by Utility from structures within the Property.

- **1.6** "User" means a customer utilizing Services within the Property.
- **1.7 "Utility Construction Requirements"** means Utility's construction specifications, notes and details for Infrastructure for the Property.

2. SEWER SYSTEM

- 2.1 Developer shall design and construct, at its sole expense, all Infrastructure within the Property in accordance with engineering plans and specifications of the Developer's engineer prepared in accordance with all applicable governmental standards and regulations and Utility's Utility Construction Requirements. Plans and specifications shall be submitted to Utility for review, and must have received Utility's written approval before construction begins, which approval shall not be reasonably withheld or delayed.
- **2.2** All Infrastructure shall be constructed by a contractor that is selected by Developer and approved by Utility prior to beginning construction, which approval shall not be unreasonably withheld or delayed. The contractor must hold all required state and local licenses and, if required by Utility, must produce a valid Certificate of Insurance showing Utility as an additional insured during construction of the Infrastructure.
- **2.3** Developer must submit, at no charge to Utility, all construction plans and specifications for the Infrastructure. The plans submitted in accordance with this section shall be Developer's plans which have received all required governmental approvals.
- 2.4 Upon completion of the Infrastructure, Developer must submit to Utility, at no charge, three (3) sets of "As Built" construction plans and specifications as well as an electronic copy of all plans in a format acceptable to Utility.

3. EASEMENTS AND REAL PROPERTY

- **3.1** By its execution of the Agreement, Developer grants, conveys, sets over, and assigns unto Utility a non-exclusive easement of use and passage within all utility easements, rights of ways, and streets within the Property as shown on the final subdivision plan or similar document. The easement of passage shall be used by Utility exclusively in connection with the maintenance, construction, and operation of the Infrastructure within the Property. Notwithstanding the foregoing, Developer further agrees to execute assignments, easements, and any additional documents requested by Utility in order to memorialize this grant of easement.
- **3.2** Developer agrees to add the following wording to the final subdivision plan or similar document as recorded in the official real estate records of each county/parish where the Property is located: Bluegrass Water Utility Operating Company, LLC its successors and assigns, is hereby granted the right to construct, maintain, and provide sewer services

within the street rights of way, both public and private, and easements set forth herein and/or hereafter granted and is further granted the exclusive right to provide sewer services as a non-public, investor-owned utility. No single structure sewage treatment may be constructed while sewer service is available from Bluegrass Water Utility Operating Company, LLC

3.3 Upon completion and acceptance by Utility of the facilities to be constructed and installed by Developer in accordance with the Agreement, all Infrastructure shall become the property of Utility, as installed and without the requirement of written documents of transfer. Utility shall own, operate, and maintain such facilities at its sole cost and responsibility and shall have all right, title, and interest as sole owner of those facilities. Notwithstanding the foregoing, Developer shall execute a deed(s), bill of sale and/or other documents reasonably requested by Utility as necessary or desirable, in its sole opinion, to convey to Utility and ensure Utility's ownership of, ready access to, and operations and maintenance of the Infrastructure.

4. WARRANTIES AND REPRESENTATIONS

- **4.1** Upon final acceptance and transfer to Utility of the Infrastructure at Closing (hereinafter defined), Utility will provide Services to Users within the Property.
- **4.2** Upon final acceptance and transfer to Utility of the Infrastructure at Closing, Utility agrees to indemnify and hold harmless Developer from all liability for Services provided to Users.
- **4.3** Developer represents that the Infrastructure is free of real property tax liens, federal or state tax liens, judgment liens, utility liens, assessment liens and that Utility take the Property free of any liens, mortgages, pledges, leases, options, rights of first refusal, conditional sales agreements, encumbrances or other charges. Developer further agrees to indemnify and hold harmless Utility from any and all liability related to construction and transfer of the Infrastructure, including but not limited to all liens and encumbrances that may be filed and/or attached to the Infrastructure at the time of their transfer to Utility in accordance with the Agreement and agrees to cure any title issues related to the same, at the sole cost of Developer.

5. **RIGHTS & OBLIGATIONS OF UTILITY AND DEVELOPER**

- **5.1** Following final transfer of the Infrastructure at Closing, Utility shall be entitled to charge monthly user fees and connection fees for Services within the Property as set and established by state utility regulatory authorities.
- **5.2** Prior to Closing, Developer or Developer's engineer shall inspect the Infrastructure within the Property during construction and shall be responsible for notifying Utility of any and all deviations from the plans and specifications approved by Utility for construction of the Infrastructure.

- **5.3** Prior to Closing, Developer or Developer's approved contractor shall lamp test or smoke test the Infrastructure related to the sewer system at the cost and expense of Developer. A field supervisor from Utility must be present for all testing.
- **5.4** Prior to Closing, Developer shall deliver to Utility a certification from its approved contractor that the Infrastructure related to the sewer system and its connection to Utility's sewer system has been performed in accordance with the approved plans and specifications and is ready for domestic use.
- 5.5 Prior to Closing, and upon substantial completion of the Infrastructure within the Property, Developer or Developer's approved contractor shall provide a notice of completion to Utility that all work has been substantially completed in accordance with the approved plans and specifications, and further certifying the Infrastructure have been tested in accordance with this section and are approved for use. Utility shall have a period of fourteen (14) days from the date of such notice and receipt of the as-built drawings from Developer's approved contractor to provide Developer a written list of any objections or defects of the Infrastructure. In the event Utility provides a notice and listing of objections and defects within the time specified, then Developer shall have a reasonable period of time within which to take such corrective measures as may be necessary to remove such objections and defects. The standard for any review of objections and defects of the Infrastructure shall be the plans and specifications for Infrastructure approved by Utility. Developer shall provide notice to Utility of completion of work required to remove all objections and defects set forth in Utility's notice, and thereafter Utility shall have seven (7) days within which to provide notice of any additional defects or objections to the Infrastructure. This process of notification by Utility and corrective action by Developer shall continue until all defects and objections have been remedied or corrected to the reasonable satisfaction of Utility.
- **5.6** Upon the transfer from Developer to Utility in accordance with this section, all warranties Developer may have from vendors, manufacturers, contractors, or subcontractors in connection with construction of the Infrastructure shall be assigned and transferred to Utility. Developer further agrees to execute an assignment and any additional documents requested by Utility in order to memorialize this transfer and assignment of warranty.
- **5.7** Each Party agrees to provide reasonable support and assistance required by the other Party to secure governmental approvals, authorizations, and certificates necessary to effectuate the objectives of this Agreement.

6. RATES AND CHARGES

- 6.1 In accordance with its approved rates and tariffs, Utility will charge a sewer tie-in fee, a monthly sewer rate, and any other authorized fees and charges to each builder or User within the Property. Monthly service charges shall begin when the User connects to the Infrastructure.
- 6.2 Utility shall be entitled to charge each builder or User a deposit for sewer tap fees in accordance with its approved tariff.

7. **REGULATORY APPROVAL; CLOSING**

7.1 Upon receipt of all regulatory approvals, in a form satisfactory to Utility in Utility's sole and absolute discretion, and approval of the Infrastructure by Utility, pursuant to Section 5.6, the Parties shall schedule a Closing on a mutually agreed-upon date and place ("Closing"). At the Closing, Developer shall execute and deliver instruments of conveyance, transferring to Buyer the Infrastructure and any real property interests, including but not limited to easements, required for Utility to provides Services to the Property, free of any and all liens and encumbrances.

8. SPECIFIC PERFORMANCE; DAMAGE; VENUE

- 8.1 If Developer fails to perform its obligations under the Agreement, Utility shall be entitled, at its option, to exercise one or more of the following remedies: (i) specific performance, (ii) compensatory damages, and (iii) rescission and cancellation of this agreement. If Utility elects to exercise its rights under this Section 8, Developer shall pay all costs, attorneys fees, consulting fees and engineering fees, if Utility prevails.
- **8.2** Any and all disputes hereunder shall be exclusively heard in a federal or state court located in St. Louis County, Missouri.

9. NOTICES

9.1 Any notice required or permitted to be given or served by any Party to the other Party shall be deemed given in accordance with the provisions of this Agreement upon the addressee's receipt by the addressee by certified mail, return receipt requested, addressed as follows:

If to Utility:	BLUEGRASS UTILITY OPERATING COMPANY, LLC c/o Josiah Cox, President 1650 Corporate Hill Drive, Suite 303 St. Louis, Missouri 63131
With a Copy to:	James A. Beckemeier Beckemeier LeMoine Law 13421 Manchester Road, Suite 103 St. Louis, MO 63131 Facsimile: (314) 965-0127 Email: jim@bl-stl.com
If to Developer:	RAMAR LAND CORPORATION c/o Stan Richards, Director 4400 Easton Commons Way, Suite 125 Columbus, OH 43219 Phone: (937) 603-3900

9.2 Any Party may change its address by delivering written notice of such change to the other Party in the manner specified above, with the effective date of the change being ten (10) days from the date of the receipt of the notice of change.

10. CAPTIONS; HEADINGS

10.1 The paragraph headings or captions appearing in this Agreement are for convenience and direction only, are not a part of this Agreement, and are not to be considered in interpreting this Agreement.

11. ENTIRE CONTRACT MODIFICATION

11.1 This written Agreement constitutes the entire and complete agreement among the Parties and supersedes any prior oral or written agreements, letters, or correspondence between the parties regarding matters covered by the Agreement. It is expressly agreed that there are no verbal understandings or agreements that in any way change the terms, covenants, and conditions set forth here, and no modification of this Agreement or waiver of any of its terms and conditions shall be effective unless made in writing and duly executed by all Parties.

12. ASSIGNMENT

12.1 This Agreement shall not be assigned by Developer to any third party without the prior written consent of Utility, which consent shall not unreasonably be withheld. Any assignment must include the express written assent by assignee to assume all obligations of Developer and to be bound by all terms and conditions of this Agreement. Utility shall be permitted to assign its rights in this Agreement to an affiliated entity that Utility controls without need of consent by the Developer by providing written notice to the Developer of such assignment.

13. WARRANTIES

13.1 All covenants, agreements, warranties, representations, and other provisions of the Agreement shall be binding upon and inure to the benefit of the Parties and also to their respective heirs, executors, administrators, representatives, successors, and permitted assigns.

14. SEVERABILITY

14.1 If any of the terms or conditions of this Agreement shall for any reason be held to be invalid, unlawful, or unenforceable in any respect, such invalidity, unlawfulness, or unenforceability shall not affect the other terms and conditions, and thereafter the terms and conditions of the Agreement shall thereafter be construed as if such invalid, illegal or unenforceable terms or conditions had never been included.

IN WITNESS WHEREOF, the Parties have duly executed this Agreement as of the day and year first above written.

UTILITY:

BLUEGRASS WATER UTILITY OPERATING COMPANY, LLC

By: Central States Water Resource, Inc., its manager By: Josiah M. Cox, President

DEVELOPER:



EXHIBIT A



Civil Engineering Surveying Water Resources Management Construction Management Landscape Architecture Land Planning

To whom it may concern,

The scope of the work for this project includes 860' of new 2" forcemain and 690' of new gravity sewer installation. The new forcemain will tie into an existing sanitary sewer located near the construction site which will route the new domestic waste to be treated at the WWTP. A new oil and water separator will be utilized to reduce pollutants flowing into the gravity sewer. A new lift station will also be installed to take the domestic waste water from the gravity sewer and pump it offsite to be treated at the WWTP.

ANDY BESHEAR GOVERNOR



REBECCA W. GOODMAN Secretary

ENERGY AND ENVIRONMENT CABINET DEPARTMENT FOR ENVIRONMENTAL PROTECTION

ANTHONY R. HATTON COMMISSIONER

300 Sower Boulevard Frankfort, Kentucky 40601

February 17, 2020

Jake Freeman Central States Water Resources 500 Northwest Plaza Dr., Suite 500 St. Ann, MO 63074

> Re: AI Name: LH Utilities/Longview Country Club AI No. 8083 Case No. DOW-19-3-0154 Activity No. ERF20190001 Facility ID: KY0081591 Scott County

Dear Mr. Freeman:

Thank you for your submission of a Corrective Action Plan ("CAP") dated December 20, 2019, for the facility listed above, which the Cabinet has reviewed and accepted. The Division of Water has no comments regarding this CAP. Feel free to contact me at 502-782-8638 or <u>wesley.dement@ky.gov</u> should you have any questions or concerns

Wer Jamt



ANDY BESHEAR GOVERNOR



REBECCA W. GOODMAN Secretary

ENERGY AND ENVIRONMENT CABINET DEPARTMENT FOR ENVIRONMENTAL PROTECTION

ANTHONY R. HATTON COMMISSIONER

300 Sower Boulevard Frankfort, Kentucky 40601

January 29, 2020

Jake Freeman Central States Water Resources 500 Northwest Plaza Dr., Suite 500 St. Ann, MO 63074

> Re: AI Name: Persimmon Ridge WWTP AI No. 3955 Case No. DOW-19-3-0155 Activity No. ERF20190001 Facility ID: KY0090956 Shelby County

Dear Mr. Freeman:

Thank you for your submission of a Corrective Action Plan ("CAP") dated December 13, 2019, for the facility listed above, which the Cabinet has reviewed and accepted. The Division of Water has no comments regarding this CAP. Feel free to contact me at 502-782-8638 or <u>wesley.dement@ky.go</u>v should you have any questions or concerns.

Win Jamt





May 20, 2022

Nicholas Fields Kentucky Department of Environmental Protection Division of Enforcement 300 Sower Blvd., 3rd Floor Frankfort, KY 40601

RE: Bluegrass Water Utility Operating Company, LLC Delaplain Disposal WWTP KYPDES Permit No. KY0079049 Agency No. 3901

On behalf of Bluegrass Water Utility Operating Company, Inc., we are submitting this letter per the EEC's requirement consistent with the current CAO plan that was approved on October 27, 2021. We are continuing to work to meet effluent compliance for this facility.

BWUOC is currently waiting for CPCN approval for construction and KDOW has not approve our construction permit for this facility. KDOW requested additional information, with regards to the construction plan submitted by 21 Design Group. The assigned engineering firm responded to all questions presented by KDOW and feedback for scope of work continues to be on-hold.

Construction equipment has been ordered. Construction materials have started to arrive, and improvements will begin as soon as construction permit approval is confirmed by Div. of Water. However, some of the main equipment materials have been delayed on delivery due to shortages and/or limited production. Some of the construction can be started but we are working closely with the manufacturers to ensure all goods and materials are available once approval is confirmed.

Please let us know if this letter does not meet the status report requirements of achieving system compliance.

b-11. J

Enrique Chavez Jr. Utility Project Manager Email: <u>echavez@cswrgroup.com</u> Office: (314) 380-8043 Mobile: (314) 437-5714



ANDY BESHEAR GOVERNOR

> **ENERGY AND ENVIRONMENT CABINET** DEPARTMENT FOR ENVIRONMENTAL PROTECTION

ANTHONY R. HATTON COMMISSIONER

REBECCA W. GOODMAN

SECRETARY

300 Sower Boulevard Frankfort, Kentucky 40601

February 24, 2022

Bluegrass Water Utility Operating Company, LLC 500 NW Plaza Drive, Suite 500 Saint Ann, MO 63074

> Re: AI Name: Longview Country Club AI No. 8083 Case No. DOW 19-3-0154 Activity No. ERF20190002 Scott County

Dear Bluegrass Water:

The Division of Enforcement has determined that you have complied with the terms and conditions of the Agreed Order, executed September 3, 2019. The Division considers Case No. DOW 19-3-0154 resolved and closed. Please contact me at (502) 782-5273 or <u>nicholas.fields@ky.gov</u> if you have any questions.

Mal Int







Pace Analytical Services, LLC P.O. Box 907 Madisonville, KY 42431 270.821.7375 www.pacelabs.com

Certificate of Analysis 3023949

Jo Anna McMahon Bluegrass Water Utility Operating Company LLC 1630 DES Peres Rd, Ste 140 St. Louis, MO 63131 Customer ID: Report Printed:

44-102510 03/01/2023 17:33

Project Name:	Permit Renewal Persimmon Ridge	Workorder:	3023949	
---------------	--------------------------------	------------	---------	--

Dear Jo Anna McMahon

Enclosed are the analytical results for samples received by the laboratory 02/22/2023 14:32.

The results relate to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services LLC Kentucky - Madisonville

If you have any questions concerning this report, please feel free to contact me.



#460210 Madisonville, KY #460291 Pikeville, KY

> This page is included as part of the Analytical Report and must be retained as a permanent record thereof.

Joseph Gray

Joe Gray, Project Coordinator



Lab ID

3023949-01

Matrix: Effluent

Nitrate/Nitrite as N

Total Kjeldahl Nitrogen

Total Organic Carbon

Oll & Grease

Analyte

Analyst

HMF

SLM

TRA

SLM

HMF

02/27/2023 09:32

02/27/2023 09:40

02/28/2023 02:04

Client Sample ID/Alias Matrix **Date Received** Sampled By **Date Collected** 02/22/2023 11:40 02/22/2023 14:32 Mark Stafford Persimmon Effluent/ Effluent **ANALYTICAL RESULTS** Sample Collection Date Time: 02/22/2023 11:40 Lab Sample ID: 3023949-01 Sample Received Date Time: 02/22/2023 14:32 **Description: Persimmon Effluent** Regulatory ID: KY0090956 Discharge/Site No: **Conventional Chemistry Analyses Madisonville** Result Flag Units MRL MDL Method Prepared Analyzed 03/01/2023 14:30 **Chemical Oxygen Demand** 63 mg/L 13 8 HACH 8000 03/01/2023 14:30 3.90 mg/L 0.20 0.14 EPA 353.2 03/01/2023 10:07 03/01/2023 10:07

SAMPLE SUMMARY

Field Analysis Madisonville

4.7

23.2

16.3 D1

mg/L

mg/L

mg/L

Analyte	Result Fla	g Units	MRĹ	MDL	Method	Prepared	Analyzed	Analyst
Dissolved Oxygen (Field)	9.1	mg/L	0.1	0.1	4500-O G-2001	02/22/2023 11:40	02/22/2023 12:04	MES

1.4 EPA 1664A

1,52 EPA 351.2

0.8 5310 C-2014

02/27/2023 09:00

02/25/2023 08:17

02/27/2023 08:26

1.8

1.80

1.0



Notes for work order 3023949

- Samples collected by PACE personnel are done so in accordance with procedures set forth in PACE field services SOPs :
- Results contained in this report are only representative of the samples received.
- PACE does not provide interpretation of these results unless otherwise stated.
- All Waste Water analyses comply with methodology requirements of 40 CFR Part 136.
- All Drinking Water analyses comply with methodology requirements of 40 CFR Part 141.
- Unless otherwise noted, all quantitative results for soils are reported on a dry weight basis.
- The Chain of Custody document is included as part of this report.
- All Library Search analytes should be regarded as tentative identification based on the presumptive evidence of the mass spectra. Concentrations reported are estimated values.

Qualifiers

- D1 Sample required dilution due to high concentration of target analyte.
- J Estimated value.

M7 Matrix spike recovery was low.

- U Target analyte was analyzed for, but was below detection limit (the value associated with the qualifier is the laboratory method detection limit in our LIMS system).
- Y5 MS/MSD RPD exceeded the method control limit.

Standard Qualifiers/Acronyms

MDL	Method Detection Limit
MRL	Minimum Reporting Limit
ND	Not Detected
LCS	Laboratory Control Sample
MS	Matrix Spike
MSD	Matrix Spike Duplicate
DUP	Sample Duplicate
% Rec	Percent Recovery
RPD	Relative Percent Difference
>	Greater than
	Less than



٩

		Reporting		Spike	Source		%REC		RPD	
Anatyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch BCB2527 - Default Prep Wet Chem										
Blank (BCB2527-BLK1)										
Prepared: 2/27/2023 8:26, Analyzed: 2/27/2023	3 23:36									
Total Organic Carbon	ND	0.5	mg/L							U
LCS (BCB2527-BS1)										
Prepared: 2/27/2023 8:26, Analyzed: 2/27/2023	3 23:57									
Total Organic Carbon	5.0	0.5	mg/L	5.00		99.0	80-120	1010		
Duplicate (BCB2527-DUP1)	Source: 3024627-0	5								
Prepared: 2/27/2023 8:26, Analyzed: 2/28/2023	3 5:13									
Total Organic Carbon	1.9	0.5	mg/L		2.0			4.87	25	
Duplicate (BCB2527-DUP2)	Source: 3024627-0	7								
Prepared: 2/27/2023 8:26, Analyzed: 2/28/2023	3 5:34									
Total Organic Carbon	1.6	0.5	mg/L		1.6			2.11	25	
Matrix Spike (BCB2527-MS1)	Source: 3024627-0	9								
Prepared: 2/27/2023 8:26, Analyzed: 2/28/2023	3 5 55									
Total Organic Carbon	4.0	0.5	mg/L	2.50	1.6	98.1	80-120			
Batch BCB2532 - Default Prep Wet Chem										
Blank (BCB2532-BLK1)										
Prepared: 2/25/2023 8:17, Analyzed: 2/27/2023	3 9:18									
Total Kjeldahl Nitrogen	ND	1.80	mg/L							U
LCS (BCB2532-BS1)										
Prepared: 2/25/2023 8:17, Analyzed: 2/27/2023	3 9:18									
Total Kjeldahl Nitrogen	10.1	1.80	mg/L	10.0		101	90-110			
Matrix Spike (BCB2532-MS1)	Source: 3023518-0	2	5.211							
Prepared: 2/25/2023 8:17, Analyzed: 2/27/2023	3 9:43									
Total Kjeldahl Nitrogen	10.3	1.80	mg/L	10.0	1.9	83.9	90-110			M7
Matrix Spike Dup (BCB2532-MSD1)	Source: 3023518-0	2								
Prepared: 2/25/2023 8:17, Analyzed: 2/27/2023	3 9:44									
Total Kjeldahl Nitrogen	11.6	1.80	mg/L	10.0	1.9	96.9	90-110	11.9	10	Y5



		_								
		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch BCB2567 - Default Prep Extraction Lab										
Blank (BCB2567-BLK1)										
Prepared: 2/27/2023 9:00, Analyzed: 2/27/2023	3 9:00									
Oil & Grease	ND	1.8	mg/L							U
LCS (BCB2567-BS1)										
Prepared: 2/27/2023 9:00, Analyzed: 2/27/2023	3 9:02									
Oil & Grease	22.2	1.8	mg/L	20.0		111	78-114			
Duplicate (BCB2567-DUP1)	Source: 3021554-05									
Prepared: 2/27/2023 9:00, Analyzed: 2/27/2023	3 9:04									
Oil & Grease	1.5	1.8	mg/L		ND				18	J
Matrix Splke (BCB2567-MS1)	Source: 3023949-01									
Prepared: 2/27/2023 9:00, Analyzed: 2/27/2023	3 9:06									
Oil & Grease	25.2	2.0	mg/L	21.7	4.7	94.2	78-114			
Batch BCB2718 - Default Prep Wet Chem										
Blank (BCB2718-BLK1)										
Prepared: 3/1/2023 9:36, Analyzed: 3/1/2023	0-36									
Nitrate/Nitrite as N	ND	0.20	mg/L							U
LCS (BCB2718-BS1)		21/21/								
Prepared: 3/1/2023 9:38, Analyzed: 3/1/2023	0.38									
Nitrate/Nitrite as N	10.4	0.20	mg/L	10.0		104	90-110			
				10.0		TUT	00.110			
	Source: 3023647-01									
Prepared: 3/1/2023 9:53, Analyzed: 3/1/2023 Nitrate/Nitrite as N	5 56	0.20	mg/L	5.00	0.503	101	80-120			
		0.20	mg/L	5.00	0.303	101	00-120			_
	Source: 3023669-01									
Prepared: 3/1/2023 10:08, Analyzed: 3/1/2023										
Nitrate/Nitrite as N	4.98	0.20	mg/L	5.00	ND	99.6	80-120			
	Source: 3023647-01									
Prepared: 3/1/2023 9:54, Analyzed: 3/1/2023										
Nitrate/Nitrite as N	5.42	0.20	mg/L	5.00	0.503	98.3	80-120	2.55	30	



÷

	R	eporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
atch BCB2718 - Default Prep Wet Chem										
Matrix Spike Dup (BCB2718-MSD2)	Source: 3023669-01									
Prepared: 3/1/2023 10:09, Analyzed: 3/1/2023	3 10 09									
Nitrate/Nitrite as N	5.07	0.20	mg/L	5.00	ND	101	80-120	1.79	30	
Batch BCB2815 - Default Prep Wet Chem										
Blank (BCB2815-BLK1)										
Prepared: 3/1/2023 14:30, Analyzed: 3/1/2023	3 14:30									
Chemical Oxygen Demand	ND	13	mg/L							U
_CS (BCB2815-BS1)										
Prepared: 3/1/2023 14:30, Analyzed: 3/1/2023	3 14:30									
Chemical Oxygen Demand	118	13	mg/L	125		94.4	90-110			
Duplicate (BCB2815-DUP1)	Source: 3024312-01									
Prepared: 3/1/2023 14:30, Analyzed: 3/1/2023	3 14 30									
Chemical Oxygen Demand	9	13	mg/L		8			11.8	25	J
Matrix Splke (BCB2815-MS1)	Source: 3024312-01									
Prepared: 3/1/2023 14:30, Analyzed: 3/1/2023										
Chemical Oxygen Demand	272	13	mg/L	250	8	106	90-110			
Matrix Spike Dup (BCB2815-MSD1)	Source: 3024312-01									
Prepared: 3/1/2023 14:30, Analyzed: 3/1/2023	3 14 30									
Chemical Oxygen Demand	257	13	mg/L	250	8	99.6	90-110	5.67	10	
Certified Analyses included in this Report										
Analyte C	Certifications									
1500-0 G-2001 in Water										
Dissolved Oxygen (Field)	CY Wastewater Mdv (000)	30)								
5310 C-2014 in Water										
Total Organic Carbon (KY Drinking Water Mdv (0 (02819) ADEM Drinking W Madisonville, KY 42431 A	later Mdv	(41880) W\	V Wastewat	er Madisonv				ter	
EPA 1664A in Water										
OI D OICESU	VA NELAC MDV (460210) Madisonville, KY 42431	KY Wast	ewater Mdv	(00030) W	V Wastewat	er Madison	ville (241), 8	125 Industri	al Rd	
n in the second s										
EPA 351.2 in Water	(Y Wastewater Mdv (000)	30)								
EPA 351.2 in Water Total Kjeldahl Nitrogen	KY Wastewater Mdv (000)	30)								
EPA 351.2 in Water Total Kjeldahi Nitrogen EPA 353.2 in Water	۲ Wastewater Mdv (000: ۲ Wastewater Mdv (000:	·								
EPA 351.2 in Water Total Kjeldahi Nitrogen EPA 353.2 in Water	·	·								



	Sample Acceptance Checklist for Work Order 302394				
Shipped By: Pace Analytical Services LL	Temperature: 2.40° Celcius				
Condition					
Check if Custody Seals are Present/Intact					
Check if Custody Signatures are Present	Ø				
Check if Collector Signature Present					
Check if bottles are intact					
Check if bottles are correct	Ø				
Check if bottles have sufficient volume					
Check if samples received on ice					
Check if VOA headspace is acceptable					
Check if samples received in holding time.					
Check if samples are preserved properly					

		1
Pace Analytical Services LLC Kentucky P.O. Box 907 Madisonville, KY 42431	Chain of Custody Scheduled for: 02/22/2023	
Client: Bluegrass Water Utility Operating Company LLC Project: Permit Renewal Persimmon Ridge	Report To: Bluegrass Water Utility Operating Company LLC Jo Anna McMahon 1630 DES Peres Rd, Ste 140 St. Louis, MO 63131	Invoice To: Bluegrass Water Utility Operating Company LLC AP 1630 DES Peres Rd, Ste 140 St. Louis, MO 63131
Please Print Legibly MAXIL Statf-B A Collected by (Signature): Mark Statford	Phone: <u>314-380-8571</u> PWS ID#: <u>KY0090956</u> State:	PO#: Quote# Compliance Monitoring? Yes No
*For composite samples please indicate begin time, end to Influent: Start Date Start time I Effluent: Start Date Start time	End Date End Time Ter	
Sample ID# 21217 Field M 3023949-01 A 21217 Field M 3023949-01 B 21217 II 4 0 3023949-01 C 21217 II 4 0 Plastic W 3023949-01 D $2/12/12$ II 4 1 AG 1L p 21217 1141	Ad Preservative Measurement 1 Persimmon Effluent Masurement 1 Persimmon Effluent MLT CONTAINER 1 Persimmon Effluent 500mL pH<2 1 Persimmon Effluent H<2 w/H2SO4 1 Persimmon Effluent	Composite g/c Sample Analysis Requested g/c DO (Field) g/c Field Services G/c Nitrate and Nitrite Combined by Lachat 353.2 TKN by Lachat 351.2 COD : TOC - NP3 2/22/LO23 g/c Oil and Grease G/c Oil and Grease G/c Oil and Grease G/c Oil and Grease G/c Oil and Grease
Field data collected by: Mark Stuff pH Temp (oC) 12.7 or (oF) Flow (MGD) or (CFS)	Date (mm/dd/yy) 7/ 21/ 2 ³ Time (24 hr) 1 Res Cl (mg/L) Tot Cl (mg/L) alic Water Level DO (mg/L) 9 (g/min) eceived by: (Signature)	Free CI (mg/L)
PACE- Check here if trip charge applied to ass	sociated COC Printed: 2/1	16/2023 7:21:34AM Page 8 of 8



Pace Analytical Services, LLC P.O. Box 907 Madisonville, KY 42431 270.821.7375 www.pacelabs.com

Certificate of Analysis 3023748

Jo Anna McMahon Bluegrass Water Utility Operating Company LLC 1630 DES Peres Rd, Ste 140 St. Louis, MO 63131 Customer ID: Report Printed: 44-102510 02/24/2023 18:00

Project Name:	Permit Renewal Persimmon Ridge	Workorder: 3023748	3

Dear Jo Anna McMahon

Enclosed are the analytical results for samples received by the laboratory 02/15/2023 14:24.

The results relate to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services LLC Kentucky - Madisonville

If you have any questions concerning this report, please feel free to contact me.



#460210 Madisonville, KY #460291 Pikeville, KY

> This page is included as part of the Analytical Report and must be retained as a permanent record thereof.

Joseph Gray

Joe Gray, Project Coordinator



A 24

SAMPLE SUMMARY

Lab ID	Client Sample ID/Alias			Matri	ĸ	Date Collecte	d Date Recei	ved Sampled B	y
3023748-01	3023748-01 Persimmon Effluent/				nt	02/15/2023 10:	18 02/15/2023	14:24 Mark Slaffo	rd
				ANALYTICA	L RE	SULTS			
Lab Sample ID: 30 Description: Persin						•	ection Date Time: 02 eived Date Time: 02		
Matrix: Effluent			Discha	arge/Site No:			Regulatory ID: H	(Y0090956	
Conventional Chemist	ry Analyses Madisonville								
Analyte	Result	Flag	Units	MRL	MDL	Method	Prepared	Analyzed	Analyst
Chemical Oxygen Den	hand 79		mg/L	8	6	HACH 8000	02/21/2023 13:52	02/23/2023 16:16	HMF
Nitrate/Nitrite as N	4.91		mg/L	0.20	0.05	EPA 353.2	02/22/2023 11:41	02/22/2023 11:41	SLM
Oil & Grease	ND	υ	mg/L	1.8	1.4	EPA 1664A	02/18/2023 09:45	02/18/2023 10:05	SBW
Total Kjeldahl Nitroger	n 20.1		mg/L	1.80	1.52	EPA 351.2	02/18/2023 05:54	02/21/2023 09:59	SLM
Total Organic Carbon	16.1	D1	mg/L	1.0	0.8	5310 C-2014	02/23/2023 11:54	02/24/2023 10:02	HME
Field Analysis Madiso	nville								
Analyte	Result	Flag	Units	MRL	MDL	Method	Prepared	Analyzed	Analyst
Dissolved Oxygen (Fie	ld) 8.9		mg/L	0.1	0.1	4500-O G-2001	02/15/2023 10:18	02/15/2023 10:20	MES



Notes for work order 3023748

- Samples collected by PACE personnel are done so in accordance with procedures set forth in PACE field services SOPs .
- Results contained in this report are only representative of the samples received.
- PACE does not provide interpretation of these results unless otherwise stated .
- All Waste Water analyses comply with methodology requirements of 40 CFR Part 136.
- All Drinking Water analyses comply with methodology requirements of 40 CFR Part 141.
- Unless otherwise noted, all quantitative results for soils are reported on a dry weight basis.
- The Chain of Custody document is included as part of this report.
- All Library Search analytes should be regarded as tentative identification based on the presumptive evidence of the mass spectra, Concentrations reported are estimated values.

Qualifiers

- D1 Sample required dilution due to high concentration of target analyte.
- Estimated value. J
- M1 Matrix spike recovery was high; the method control sample recovery was acceptable.
- Matrix spike recovery was low. M7
- U Target analyte was analyzed for, but was below detection limit (the value associated with the qualifier is the laboratory method detection limit in our LIMS system).

Standard Qualifiers/Acronyms

	-
MDL	Method Detection Limit
MRL	Minimum Reporting Limit
ND	Not Detected
LCS	Laboratory Control Sample
MS	Matrix Spike
MSD	Matrix Spike Duplicate
DUP	Sample Duplicate
% Rec	Percent Recovery
RPD	Relative Percent Difference
2	Greater than
	Less than



t

٠

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch BCB1857 - Default Prep Wet Chem										
Blank (BCB1857-BLK1)										
Prepared: 2/18/2023 5:54, Analyzed: 2/21/2023 9:36										
Total Kjeldahl Nitrogen	ND	1.80	mg/L							U
LCS (BCB1657-BS1)										
Prepared: 2/18/2023 5 54, Analyzed: 2/21/2023 9:37										
Total Kjeldahl Nitrogen	10,3	1,60	mg/L	10.0		103	90-110			
Matrix Spike (BCB1857-MS1) Source	: 3021322-02									
Prepared: 2/18/2023 5:54, Analyzed: 2/21/2023 10:00)									
Total Kjeldahl Nitrogen	4.6	1.80	mg/L	10.0	ND	46.4	90-110			M7
Matrix Spike Dup (BCB1857-MSD1) Source	: 3021322-02									
Prepared: 2/18/2023 5:54, Analyzed: 2/21/2023 10:01	1									
Total Kjeldahl Nitrogen	4.8	1.80	mg/L	10.0	ND	48.0	90-110	3.39	10	M7
Batch BCB1859 - Default Prep Extraction Lab										
Blank (BCB1859-BLK1)										
Prepared: 2/18/2023 9:45, Analyzed: 2/18/2023 9:45										
Oil & Grease	ND	1.8	mg/L							U
LCS (BCB1859-BS1)										
Prepared: 2/18/2023 9:45, Analyzed: 2/18/2023 9:47										
OII & Grease	18.0	1.8	mg/L	20.0		90.0	78-114			
Duplicate (BCB1859-DUP1) Source	a: 3023748-01									
Prepared: 2/18/2023 9:45, Analyzed: 2/18/2023 9:49										
Oil & Grease	6.1	1.8	mg/L		ND				18	
Matrix Spike (BCB1859-MS1) Source	a: 3014937-01									
Prepared: 2/18/2023 9:45, Analyzed: 2/18/2023 9:51										
Oil & Grease	27.1	2.0	mg/L	21.7	ND	124	78-114			M1
Batch BCB2080 - Default Prep Wet Chem										
Blank (BCB2080-BLK1)										
Brank (BCB2000-BLKT) Prepared: 2/22/2023 11:12, Analyzed: 2/22/2023 11:13	2									
Nitrate/Nitrite as N	ND	0.20	mg/L							U



		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch BCB2080 - Default Prep Wet Chem										
LCS (BCB2080-BS1)										
Prepared: 2/22/2023 11:13, Analyzed: 2/22/20	023 11:13									
Nitrate/Nitrite as N	10.2	0 20	mg/L	10.0		102	90-110			
Matrix Spike (BCB2080-MS1)	Source: 3022855-01									
Prepared: 2/22/2023 11:42, Analyzed: 2/22/20	023 11:42									
Nitrate/Nitrite as N	5.32	0 20	mg/L	5.00	0.469	97.0	80-120			
Matrix Spike Dup (BCB2060-MSD1)	Source: 3022855-01						1,000			
Prepared: 2/22/2023 11:43, Analyzed: 2/22/20	023 11:43									
Nitrate/Nitrite as N	5.31	0.20	mg/L	5.00	0.469	96.8	80-120	0.188	30	
Batch BCB2094 - Default Prep Wet Chem										
Blank (BCB2094-BLK1)										
Prepared: 2/21/2023 13:52, Analyzed: 2/23/20	023 16:16									
Chemical Oxygen Demand	ND	8	mg/L							υ
.CS (BCB2094-BS1)										
Prepared: 2/21/2023 13:52, Analyzed: 2/23/20	023 16:16									
Chemical Oxygen Demand	127	8	mg/L	125		102	90-110			
Duplicate (BCB2094-DUP1)	Source: 3023876-01									
Prepared: 2/21/2023 13:52, Analyzed: 2/23/2(
Chemical Oxygen Demand	61	8	mg/L		57			6.78	25	
Matrix Splke (BCB2094-MS1)	Source: 3023876-01	1000								
Prepared: 2/21/2023 13:52, Analyzed: 2/23/20										
Chemical Oxygen Demand	315	8	mg/L	250	57	103	90-110			
Matrix Spike Dup (BCB2094-MSD1)	Source: 3023876-01						01			
Prepared: 2/21/2023 13:52, Analyzed: 2/23/20										
Chemical Oxygen Demand	311	8	mg/L	250	57	102	90-110	1.28	10	
Batch BCB2333 - Default Prep Wet Chem										
Blank (BCB2333-BLK1)	122 49:40									
Prepared: 2/23/2023 11:54, Analyzed: 2/23/20	ND	0.5	mg/L							U



Pace Analytical Services, LLC P.O. Box 907 Madisonville, KY 42431 270.821.7375 www.pacelabs.com .

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch BCB2333 - Default Prep Wet Cher	m									
LCS (BCB2333-BS1)										
Prepared 2/23/2023 11 54, Analyzed 2/	23/2023 18:28									
Total Organic Carbon	5.0	0.5	mg/L	5.00		99.0	80-120			
Duplicate (BCB2333-DUP1)	Source: 3020217-01									
Prepared: 2/23/2023 11:54, Analyzed: 2/	24/2023 0:05									
Total Organic Carbon	1.6	0.5	mg/L		1.9			3.47	25	
Duplicate (BCB2333-DUP2)	Source: 3022127-01									
Prepared: 2/23/2023 11:54, Analyzed: 2/	24/2023 10:23									
Total Organic Carbon	1.8	0.5	mg/L	_	1.7			4.73	25	
Matrix Spike (BCB2333-MS1)	Source: 3020217-02									
Prepared 2/23/2023 11:54, Analyzed: 2/	24/2023 0.26									
Total Organic Carbon	3.7	0.5	mg/L	2.50	1.2	102	80-120			_
Matrix Spike (BCB2333-MS2)	Source: 3022127-02									
Prepared: 2/23/2023 11:54, Analyzed: 2/	24/2023 10:44									
Total Organic Carbon	6.2	0.5	mg/L	5.00	0.9	105	80-120			
Constituent in advances in advantation data	ort									
certified Analyses included in this Repl										
Certified Analyses included in this Repo Analyte	Certifications									······
										·
Analyte	Certifications	030)								
Analyte 4500-O G-2001 in Water	KY Wastewater Mdv (00									
Analyte 4500-O G-2001 in Water Dissolved Oxygen (Field)		(00030) VA Water Mdv	(41880) W\	/ Wastewate	er Mad sonv				ler	
Analyte 4500-O G-2001 in Water Dissolved Oxygen (Field) 5310 C-2014 in Water Total Organic Carbon	KY Wastewater Mdv (00 KY Drinking Water Mdv (02819) ADEM Drinking	(00030) VA Water Mdv	(41880) W\	/ Wastewate	er Mad sonv				ler	
Analyte 4500-O G-2001 in Water Dissolved Oxygen (Field) 5310 C-2014 in Water Total Organic Carbon	KY Wastewater Mdv (00 KY Drinking Water Mdv (02819) ADEM Drinking	(00030) VA Water Mdv AK Drinking	(41880) W\ Water MAI	/ Wastewate DV (KY0002	er Mad sonv 0)	ille (241), 8	25 Industria	IRd		
Analyte 1500-O G-2001 in Water Dissolved Oxygen (Field) 5310 C-2014 in Water Total Organic Carbon EPA 1654A in Water Oil & Grease	KY Wastewater Mdv (00 KY Drinking Water Mdv (02819) ADEM Drinking Madisonville, KY 42431 VA NELAC MDV (46021	(00030) VA Water Mdv AK Drinking	(41880) W\ Water MAI	/ Wastewate DV (KY0002	er Mad sonv 0)	ille (241), 8	25 Industria	IRd		
Analyte 4500-O G-2001 in Water Dissolved Oxygen (Field) 5310 C-2014 in Water Total Organic Carbon EPA 1664A in Water Oil & Grease	KY Wastewater Mdv (00 KY Drinking Water Mdv (02819) ADEM Drinking Madisonville, KY 42431 VA NELAC MDV (46021	(00030) VA Water Mdv AK Drinking 0) KY Waste	(41880) W\ Water MAI	/ Wastewate DV (KY0002	er Mad sonv 0)	ille (241), 8	25 Industria	IRd		
Analyte 4500-O G-2001 in Water Dissolved Oxygen (Field) 5310 C-2014 in Water Total Organic Carbon EPA 1664A in Water Oil & Grease EPA 351.2 in Water Total Kjeldahl Nitrogen	KY Wastewater Mdv (00 KY Drinking Water Mdv (02819) ADEM Drinking Madisonville, KY 42431 VA NELAC MDV (46021 Madisonville, KY 42431	(00030) VA Water Mdv AK Drinking 0) KY Waste	(41880) W\ Water MAI	/ Wastewate DV (KY0002	er Mad sonv 0)	ille (241), 8	25 Industria	IRd		
Analyte 4500-O G-2001 in Water Dissolved Oxygen (Field) 5310 C-2014 in Water Total Organic Carbon EPA 1664A in Water Oil & Grease EPA 351.2 in Water	KY Wastewater Mdv (00 KY Drinking Water Mdv (02819) ADEM Drinking Madisonville, KY 42431 VA NELAC MDV (46021 Madisonville, KY 42431	(00030) VA Water Mdv AK Drinking 0) KY Waste 030}	(41880) W\ Water MAI	/ Wastewate DV (KY0002	er Mad sonv 0)	ille (241), 8	25 Industria	IRd		
Analyte 4500-O G-2001 in Water Dissolved Oxygen (Field) 5310 C-2014 in Water Total Organic Carbon EPA 1664A in Water Oil & Grease EPA 351.2 in Water Total Kjeldah! Nitrogen EPA 353.2 in Water	KY Wastewater Mdv (00 KY Drinking Water Mdv (02819) ADEM Drinking Madisonville, KY 42431 VA NELAC MDV (46021 Madisonville, KY 42431 KY Wastewater Mdv (00	(00030) VA Water Mdv AK Drinking 0) KY Waste 030}	(41880) W\ Water MAI	/ Wastewate DV (KY0002	er Mad sonv 0)	ille (241), 8	25 Industria	IRd		



Ŷ,

Pace Analytical Services, LLC P.O. Box 907 Madisonville, KY 42431 270.821.7375 www.pacelabs.com

	Sample Acceptance Checklist for Work Order 3023748
Shipped By: Pace Analytical Services LL	Temperature: 4.00° Celcius
Condition	
Check if Custody Seals are Present/Intact	
Check if Custody Signatures are Present	
Check if Collector Signature Present	N
Check if bottles are intact	
Check if bottles are correct	
Check if bottles have sufficient volume	
Check if samples received on ice	
Check if VOA headspace is acceptable	
Check if samples received in holding time.	
Check if samples are preserved properly	

Pace Analytical Services LLC Kentucky P.O. Box 907 Madisonville, KY 42431			Custody : <u>02/15/2023</u>				
Client: Bluegrass Water Utility Operating Company LLC	Report To: Bluegrass Wal LLC Jo Anna McMa		y Operating Company		Invoice To: Bluegrass Water Utility Operating Company LLC AP		
Project: Permit Renewal Persimmon Rldge	1630 DES Per St. Louis, MO	•	Ste 140	1630 DES F St. Louis, M	Peres Rd, Ste 140 ; O 63131 1		
Please Print Legibly MANK STREEU	Phone: <u>314-38</u> PWS ID#: <u>KY</u> State:				1		
Collected by (Signature):	19		_		iance Monitoring? Yes No		
For composite samples please indicate begin time, end) at end	time below:	Sample	es Chlorinated? Yes No		
Influent: Start Date Start time	•••			Comp (oC)			
Effluent: Start Date Start time							
		C		remp (00)			
Sample ID#	and Preservative	Containers	Sample Description	Composite	Sample Analysis Requested		
	d Measurement	1	Persimmon Effluent	g/c	DO (Field)		
			Persimmon Effluent	g/c	Field Services		
	lic 500mL pH<2 w/H2SO4	1	Persimmon Effluent	(A) c	Nitrate and Nitrite Combined by Lachat 353.2 TKN by Lachat 351.2		
	ation Check: pH :	12					
	. pH<2 w/H2SO4	1	Persimmon Effluent	Ø c	Oil and Grease		
023748-01 E 2/15/23 1070 AG 1L	. pH<2 w/H2SO4	1	Persimmon Effluent	o ھ	Oil and Grease		
Preservation Check Performed by: MJL	500			Ther	mometer Serial Number 210029556 Temp <u>40</u> °C		
		. 12.	1.				
Field data collected by: Mark Stattan		7.000.000.0					
Cond (umho)					ee CI (mg/L)		
			DO (mg/L)	<u>5.40</u> т	urb. (NTU)		
low (MGD) or (CFS) o	or (g/min)_						
Relinquished by: (Signature)	Received by: (Signa	iture)		Date (mm/	dd/yy) Time (24 hr)		
NU DVH	A			2-15	-23 /424		
PACE- Check here if trip charge applied to a	ssociated COC		Printed: 2	/14/2023 3:39:	53PM Page 8 of 8		



Pace Analytical Services, LLC P.O. Box 907 Madisonville, KY 42431 270.821.7375 www.pacelabs.com

Certificate of Analysis 3022989

Jo Anna McMahon Bluegrass Water Utility Operating Company LLC 1630 DES Peres Rd, Ste 140 St. Louis, MO 63131 Customer ID: Report Printed: 44-102510 02/17/2023 11:36

Project Name:	Permit Renewal Persimmon Ridge	Workorder:	3022989	

Dear Jo Anna McMahon

Enclosed are the analytical results for samples received by the laboratory 02/09/2023 16:02.

The results relate to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services LLC Kentucky - Madisonville

If you have any questions concerning this report, please feel free to contact me.



#460210 Madisonville, KY #460291 Pikeville, KY

> This page is included as part of the Analytical Report and must be retained as a permanent record thereof.

Brett Paris

Brett Davis For Joe Gray, Project Coordinator

V.P.1020.0


\$

,d

SAMPLE SUMMARY

			-				Date Receive	d Compled D	
Lab ID	Client Sample ID/Alia	8		Matr	IX	Date Collected		ed Sampled B	y
3022989-01	Persimmon Effluent/			Efflue	ent	02/09/2023 11:	26 02/09/2023 16	02 Mark Staffo	rd
					AL RE	SULTS			
Lab Sample ID: 3	022989-01					Sample Coll	ection Date Time: 02/0	9/2023 11:26	
Description: Persi	immon Effluent					Sample Rec	eived Date Time: 02/	09/2023 16:02	
				1001 A. 11			Dec. 1 -11 D 1 D		
Matrix: Effluent			Dischar	Discharge/Site No;			0090956		
Conventional Chemis	try Analyses Madisonville								
Analyte	Resul	t Flag	Units	MRL	MDL	Method	Prepared	Analyzed	Analys
Nitrate/Nitrite as N	4.4	2	mg/L	0.20	0.05	EPA 353.2	02/15/2023 12:17	02/15/2023 12:17	SLM
OI & Grease	NE	u (mg/L	1.8	1.4	EPA 1664A	02/15/2023 08:30	02/15/2023 08:48	TRA
Total Kjeldahl Nitroge	m 19.1	5	mg/L	1.80	1.52	EPA 351.2	02/14/2023 09:27	02/15/2023 09:13	SLM
	onville								
Field Analysis Madiso									
Fleid Analysis Madisc	Resul	t Flag	Units	MRL	MDL	Method	Prepared	Analyzed	Analys



Notes for work order 3022989

- Samples collected by PACE personnel are done so in accordance with procedures set forth in PACE field services SOPs .
- Results contained in this report are only representative of the samples received.
- PACE does not provide interpretation of these results unless otherwise stated .
- All Waste Water analyses comply with methodology requirements of 40 CFR Part 136.
- All Drinking Water analyses comply with methodology requirements of 40 CFR Part 141.
- Unless otherwise noted, all quantitative results for solls are reported on a dry weight basis,
- The Chain of Custody document is included as part of this report.
- All Library Search analytes should be regarded as tentative identification based on the presumptive evidence of the mass spectra. Concentrations reported are estimated values.

Qualifiers

J E	stimated	value
-----	----------	-------

M7 Matrix spike recovery was low.

U Target analyte was analyzed for, but was below detection limit (the value associated with the qualifier is the laboratory method detection limit in our LIMS system).

Standard Qualifiers/Acronyms

MDL	Method Detection Limit
MRL	Minimum Reporting Limit
ND	Not Detected
LCS	Laboratory Control Sample
MS	Matrix Spike
MSD	Matrix Spike Duplicate
DUP	Sample Duplicate
% Rec	Percent Recovery
RPD	Relative Percent Difference
>	Greater than
<	

Less than



di.

Conventional Chemistry Analyses Madisonville - Quality Control

	R	eporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
3atch BCB1320 - Default Prep Wat Chem										
Blank (BCB1320-BLK1)										
Prepared: 2/15/2023 11:51, Analyzed: 2/15/2023 1	1:51									
Nitrate/Nitrite as N	ND	0.20	mg/L							U
_CS (BCB1320-BS1)										
Prepared: 2/15/2023 11:52, Analyzed: 2/15/2023 1	1:52									
Nitrate/Nitrite as N	10.0	0.20	mg/L	10.0		100	90-110			
Matrix Spike (BCB1320-MS1) Sou	ırce: 3021935-01									
Prepared: 2/15/2023 12:20, Analyzed: 2/15/2023 13	2:20									
Nitrate/Nitrite as N	6.88	0.20	mg/L	5.00	1.91	99.4	80-120			
Matrix Spike Dup (BCB1320-MSD1) Sou	irce: 3021935-01									
Prepared: 2/15/2023 12:21, Analyzed: 2/15/2023 13	2:21									
Nitrate/Nitrite as N	6.86	0.20	mg/L	5.00	1,91	99.0	80-120	0.291	30	
Batch BCB1325 - Default Prep Wet Chem										
Blank (BCB1325-BLK1) Prepared: 2/14/2023 9:27, Analyzed: 2/15/2023 8:	54									
Total Kjeldahl Nitrogen	ND	1.80	mg/L							U
					1.0					
LCS (BCB1325-BS1)										
Prepared: 2/14/2023 9:27, Analyzed: 2/15/2023 8:	9.1	1.80	mg/L	10.0		91.1	90-110			
Total Kjeldahl Nitrogen		1.00	mgre	10.0		51.1	50-110			
	irce: 3023242-04									
Prepared 2/14/2023 9:27, Analyzed: 2/15/2023 9		1.00		10.0	ND	80.2	90-110			M7
Total Kjeldahl Nitrogen	8.0	1.60	mg/L	10.0	NU	00.2	30-110			1917
	Irce: 3023242-04									
Prepared: 2/14/2023 9:27, Analyzed: 2/15/2023 9				10.0		25.5	00.445	C 40		
Total Kjeldahl Nitrogen	8.6	1.80	mg/L	10.0	ND	85.5	90-110	6.40	10	M7
Batch BCB1427 - Default Prep Extraction Lab										
Blank (BCB1427-BLK1)										
Prepared: 2/15/2023 8:30, Analyzed: 2/15/2023 8	30									
Oil & Grease	ND	1.8	mg/L							U



			Reporting		Spike	Source		%REC		RPD	
Analyte		Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Note
atch BCB14	27 - Default Prep Extractio	on Lab									
CS (BCB142	?7-BS1)										
Prepared: 2/15	5/2023 8:30, Analyzed: 2/	15/2023 8:32									
Dil & Grease		20.5	1.8	mg/L	20.0		102	78-114			
Juplicate (BC	:B1427-DUP1)	Source: 3023228-01									
- A2	5/2023 8:30, Analyzed: 2/										
Dil & Grease		ND	1.8	mg/L		ND				18	Ų
latrix Spike ((BCB1427-MS1)	Source: 3023229-01									
	5/2023 8:30, Analyzed: 2/										
Dil & Grease		19.0	1.8	mg/L	19.6	ND	96.9	78-114			
Sertined Anal Analyte	lyses included in this Rep	Certifications									
	14 for 1880-1-										_
Dissolved O	xygen (Field)	KY Wastewater Mdv (00	030)								
	wight (i reset										
	164-4										
EPA 1664A in Oil & Grease		VA NELAC MDV (46021)	0) KY Waste	water Mdv	(00030) W\	/ Wastewate	er Madisorw	/ille (241), 8	25 Industria	al Rd	
EPA 1664A in Oil & Grease		VA NELAC MDV (46021 Madisonville, KY 42431	0) KY Waste	water Mdv	(00030) W\	/ Wastewate	er Madisonv	/ille (241), 8	25 Industria	al Rd	
Oil & Grease	e	Madisonville, KY 42431		swater Mdv	(00030) W\	/ Wastewate	er Madisorw	vilie (241), 8	25 Industria	al Rd	
Oil & Grease	e Water			water Mdv	(00030) W\	/ Wastewate	er Madisorw	ville (241), 8	25 Industria	al Rd	
Oil & Grease PA 351.2 in 1 Total Kjeldah	e <i>Water</i> hi Nitrogen	Madisonville, KY 42431 KY Wastewater Mdv (00	030)	awater Mdv	(00030) W\	/ Wastewate	er Madisonv	ville (241), 8	25 Industria	al Rd	
Oil & Grease PA 351.2 in 1 Total Kjeldah	e Water hi Nitrogen Water	Madisonville, KY 42431	030)	ewater Mdv	(00030) W\	/ Wastewate	er Madisom	ville (241), 8	25 Industria	el Rd	
Oil & Grease EPA 351.2 in 1 Total Kjeldal EPA 353.2 in 1	e Water hi Nitrogen Water	Madisonville, KY 42431 KY Wastewater Mdv (00	030)	awater Mdv						al Rd • Order 30	22989
Oil & Grease PA 351.2 in 1 Total Kjeldal EPA 353.2 in 1	e Water hi Nitrogen Water ie as N	Madisonville, KY 42431 KY Wastewater Mdv (00 KY Wastewater Mdv (00	030)	awater Mdv	Sam	ple Acce	ptance C	hecklist			22989
Oil & Grease PA 351.2 in 1 Total Kjeldar PA 353.2 in 1	e Water hi Nitrogen Water te as N Shipped By: Pace A	Madisonville, KY 42431 KY Wastewater Mdv (00	030)	water Mdv	Sam		ptance C	hecklist			22989
Oil & Grease PA 351.2 in 1 Total Kjeldar PA 353.2 in 1	e Water hi Nitrogen Water e as N Shipped By: Pace A Condition	Madisonville, KY 42431 KY Wastewater Mdv (00 KY Wastewater Mdv (00 Analytical Services LL	030)	awater Mdv	Sam	ple Acce	ptance C	hecklist	for Work	Order 30	22989
Oil & Grease PA 351.2 in 1 Total Kjeldar PA 353.2 in 1	e Weter hl Nitrogen Weter te as N Shipped By: Pace A <u>Condition</u> Check if Custody Se	Madisonville, KY 42431 KY Wastewater Mdv (00 KY Wastewater Mdv (00 analytical Services LL eals are Present/Intact	030)	water Mdv	Sam	ple Acce	ptance C	hecklist	for Work	Order 30	22989
Oil & Grease PA 351.2 in 1 Total Kjeldar PA 353.2 in 1	e Water hi Nitrogen Weter e as N Shipped By: Pace A <u>Condition</u> Check if Custody Se Check if Custody Se	Madisonville, KY 42431 KY Wastewater Mdv (00 KY Wastewater Mdv (00 Analytical Services LL eals are Present/Intact ignatures are Present	030)	awater Mdv	Sam	ple Acce	ptance C	hecklist	for Work	Order 30	22989
Oil & Grease PA 351.2 in 1 Total Kjeldar PA 353.2 in 1	e Weter hi Nitrogen Weter te as N Shipped By: Pace A Condition Check if Custody Se Check if Custody Si Check if Collector S	Madisonville, KY 42431 KY Wastewater Mdv (00 KY Wastewater Mdv (00 analytical Services LL eals are Present/Intact ignatures are Present	030)	water Mdv	Sam	ple Acce	ptance C	hecklist	for Work	· Order 30 □ 교 교	22989
Oil & Grease PA 351.2 in 1 Total Kjeldah PA 353.2 in 1	e Water hi Nitrogen Weter e as N Shipped By: Pace A Condition Check if Custody Se Check if Custody Si Check if Custody Si Check if Collector S Check if bottles are	Madisonville, KY 42431 KY Wastewater Mdv (00 KY Wastewater Mdv (00 Analytical Services LL eals are Present/Intact ignatures are Present intact	030)	water Mdv	Sam	ple Acce	ptance C	hecklist	for Work	Crder 30 고 교 교 교	22989
Oil & Grease PA 351.2 in 1 Total Kjeldar PA 353.2 in 1	e Water hi Nitrogen Water e as N Shipped By: Pace A Condition Check if Custody Se Check if Custody Se Check if Custody Se Check if Collector S Check if bottles are Check if bottles are	Madisonville, KY 42431 KY Wastewater Mdv (00 KY Wastewater Mdv (00 Analytical Services LL eals are Present/Intact ignatures are Present intact correct	030)	ewater Mdv	Sam	ple Acce	ptance C	hecklist	for Work	Order 30 고 교 교 교	22989
Oil & Grease PA 351.2 in 1 Total Kjeldar PA 353.2 in 1	e Water hl Nitrogen Water e as N Shipped By: Pace A Condition Check if Custody Se Check if Custody Se Check if Collector S Check if bottles are Check if bottles are Check if bottles hav	Madisonville, KY 42431 KY Wastewater Mdv (00 KY Wastewater Mdv (00 Analytical Services LL eals are Present/Intact ignatures are Present ignature Present intact correct e sufficient volume	030)	water Mdv	Sam	ple Acce	ptance C	hecklist	for Work	Crder 30 고 교 교 교	22989
Oil & Grease PA 351.2 in 1 Total Kjeldal PA 353.2 in 1	e Water hi Nitrogen Water e as N Shipped By: Pace A Condition Check if Custody Se Check if Custody Se Check if Custody Se Check if Collector S Check if bottles are Check if bottles are Check if bottles are Check if bottles are Check if bottles are	Madisonville, KY 42431 KY Wastewater Mdv (00 KY Wastewater Mdv (00 Analytical Services LL eals are Present/Intact ignatures are Present intact correct e sufficient volume iceived on ice	030)	water Mdv	Sam	ple Acce	ptance C	hecklist	for Work	Order 30 고 교 교 교	22989
Oil & Grease EPA 351.2 in 1 Total Kjeldal EPA 353.2 in 1	e Water hi Nitrogen Weter te as N Shipped By: Pace A Condition Check if Custody Se Check if Custody Se Check if Collector S Check if bottles are Check if bottles are Check if bottles are Check if bottles hav Check if samples re Check if VOA heads	Madisonville, KY 42431 KY Wastewater Mdv (00 KY Wastewater Mdv (00 Analytical Services LL eals are Present/Intact ignatures are Present intact correct e sufficient volume aceived on ice space is acceptable	030)	zwater Mdv	Sam	ple Acce	ptance C	hecklist	for Work	Order 30 고 전 전 전 전	22989
Oil & Grease EPA 351.2 in 1 Total Kjeldal EPA 353.2 in 1	e Water hi Nitrogen Weter te as N Shipped By: Pace A Condition Check if Custody Se Check if Custody Se Check if Collector S Check if bottles are Check if bottles are Check if bottles are Check if bottles hav Check if samples re Check if VOA heads	Madisonville, KY 42431 KY Wastewater Mdv (00 KY Wastewater Mdv (00 Analytical Services LL eals are Present/Intact ignatures are Present intact correct e sufficient volume iceived on ice	030)	water Mdv	Sam	ple Acce	ptance C	hecklist	for Work	· Order 30 · · · · · · · · · · · · · · · · · · ·	22989

Pace Analytical Services LLC Kentucky P.O. Box 907 Madisonville, KY 42431	Chain of Custody Scheduled for: 02/08/2023	
Client: Bluegrass Water Utility Operating Company LLC Project: Permit Renewal Persimmon Ridge	Report To: Bluegrass Water Utility Operating Company LLC Jo Anna McMahon	AP
	1630 DES Peres Rd, Ste 140 St. Louis, MO 63131	1630 DES Peres Rd, Ste 140 St. Louis, MO 631 <mark>31</mark>
Please Print Legibly MHK Staltw	Phone: <u>314-380-8571</u> PWS ID#: <u>KY0090956</u> State:	PO#:Quote#
Collected by (Signature):	mation	Compliance Monitoring? Yes No
For composite samples please indicate begin time, end t		Samples Chlorinated? Yes No
nfluent: Start Date Start time	End Date End Time T	Femp (oC)
Effluent: Start Date Start time	End Date End Time 7	Temp (oC)
AB USE ONLY "required information" Norkorder # Date Collection 3022989 (mm/dd/yy): Time (24 hr): Bottle an Sample ID#	nd Preservative Co Sample Description	Composite Sample Analysis Requested
	Aeasurement 1 Persimmon Effluent	g / c DO (Field)
	JLT CONTAINER 1 Persimmon Effluent	g / c Field Services
W	500mLpH<2 1 Persimmon Effluent /H2SO4 ion Check: pH :	g(c) Nitrate and Nitrite Combined by Lachat 353.2 TKN by Lachat 351.2
022989-01 D 2/9(27 1480 AG 1Lp	H<2 w/H2SO4 1 Persimmon Effluent	g) c Oll and Grease
022989-01 E 2/9/2 1132 AG 1Lp	H<2 w/H2SO4 1 Persimmon Effluent	of c Oil and Grease
	10) 1	Thermometer Serial Number
		210029556
Preservation Check Performed by: Much	SN	Temp3_0°C
	Date (mm/dd/yy) 2/9/23 Time (24 hr)	1131
DH Cond (umho)	Res CI (mg/L) Tot CI (mg/L)	Free CI (mg/L)
Temp (oC) or (oF) Sta	atic Water Level DO (mg/L)	(.33 Turb. (NTU)
flow (MGD) or (CFS) or	(g/min)	
Relingulshed by: (Signature)	accived by: (Signature)	Date (mm/dd/yy) Time (24 hr) 02/09/23 1 602

ANDY BESHEAR GOVERNOR



REBECCA W. GOODMAN Secretary

ENERGY AND ENVIRONMENT CABINET DEPARTMENT FOR ENVIRONMENTAL PROTECTION

ANTHONY R. HATTON COMMISSIONER

300 Sower Boulevard Frankfort, Kentucky 40601

April 6. 2021

Bluegrass Water Utility Operating Company LLC Delaplain Disposal 249 W Yusen Dr Georgetown, KY 40324

RE: **Change of Ownership** Agency Interest # KPDES Permit #: Location:

3901 KY0079049 Scott County, Kentucky

Dear Mr. Cox:

The Division of Water received your request for modification of the Kentucky Pollutant Discharge Elimination System (KPDES) coverage for the above-referenced facility. The KPDES permit has been modified to reflect the change of ownership.

If you have any questions, please contact me at 502-782-1363, or via e-mail at joy.haden@ky.gov.

Sincerely,

Joy Hal

Joy Haden Surface Water Permits Branch Division of Water

Enclosure





TRANSFER OF

AUTHORIZATION TO DISCHARGE UNDER THE KENTUCKY POLLUTANT DISCHARGE ELIMINATION SYSTEM

PERMIT NO.: KY0079049

AGENCY INTEREST NO.: 3901

Pursuant to Authority in KRS 224, this permit for:

New Facility Name:	Delaplain Disposal
Facility Address:	249 W Yusen Dr
	Georgetown, Scott County, Kentucky
Prior Owner:	Delaplain Disposal
Address:	249 W Yusen Dr

is hereby transferred to:

New Owner:	Bluegrass Water Utility Operating Company LLC
Mailing Address:	1650 Des Peres Rd Ste 303
	Des Peres, MO 63131

Georgetown, KY 40324

in accordance with effluent limitations, monitoring requirements and other conditions set forth in this permit.

The effective date of this permit transfer is April 6, 2021.

Joan M.

July 21, 2021

Date Signed

Paul Miller, Director Division of Water

DEPARTMENT FOR ENVIRONMENTAL PROTECTION Division of Water, 300 Sower Blvd, Frankfort, Kentucky 40601

Printed on Recycled Paper

Civil Engineering	Civil Site Design
Surveying & Mapping	Construction Support
Surveying & Mapping Potable Water	Transportation
Wastewater Treatment	Wastewater Collection
scfm Required for Complete Mixing (provided with blowers	
common for MBBR, Airlift and Lagoon Aeration) 12.73	scfm
Discharge Pressure 4.01	psig
Effluent Parameters	
Effluent CBOD 10	mg/L
Effluent CBOD 4.6	lbs/day
Effluent TSS 30	mg/L
Effluent TSS 13.8	lbs/day
Summer Effluent NH3-N 2.0	mg/L
Summer Effluent NH3-N 0.9	lbs/day
Winter Effluent NH3-N 5.0	mg/L
Winter Effluent NH3-N 2.3	lbs/day
E Coli 130/240	cfu/100 mL
Minimum Dissolved Oxygen 7.0	mg/L
Total Chlorine Residual 0.011	mg/L

Civil Engineering	01
Surveying & Mapping	
Potable Water	DESIGN
Wastewater Treatment	

Civil Site Design Construction Support Transportation Wastewater Collection

Side Water Depth of Each	5.75	ft
Tank Height of Each	7.25	ft
Volume of Each	2,753	gallons
Volume Total	5,505	gallons
Hydraulic Retention Time at Average Flow	2.4	hours
Hydraulic Retention Time at Peak Daily Flow	1.2	hours
Total Media Surface Area Requirement	4,627	m²
Total Media Surface Area Proposed	4,741	m²
MBBR Aeration Requirement Summary	Stage 1	
AOR (lbs/day)	35	lbs/day
Assumed Diffuser Subm. at AWL (ft.)	5	ft
Elevation (ft.)	634	ft
Alpha	0.70	
Beta	0.9	
Target DO Residual (MBBR Process) (mg/L)	5.0	mg/L
SOR (lbs/day)	138	ibs/day
Target Diffuser Efficiency/ft. Submergence	1.1	%
Airflow (scfm)	141	scfm
Airflow per 1,000 scfm	192	scfm/1,000 c
Blower Requirement Summary		
No. of Blowers	2	
Airflow Requirement for MBBR	141	scfm
Airflow Requirement for Air Lift into MBBR (4" Eductor)	17	scfm
Airflow Requirement for Post-Aeration in CCT	13	scfm
Airflow Requirement per Blower	171	scfm
Discharge Pressure	5,37	psig
Assumed Overall Efficiency	0.62	
Approximate BHP Requirement/Blower	5.9	bhp
Approximate BHP Requirement Total	5.9	bhp
Estimated Nameplate HP / Blower	7.5	hp
	Dual Lobe	
Blower Type	PD	
xisting Chlorine Contact Tank / Post Aeration		
Length	7.58	ft
Width	12	ft
Depth	7	ft
Contact Tank Volume	4,763	gallons
Disinfection HRT at Peak Flow	31.2	minutes
scfm/1,000 cf	20	scfm/1KCF

1351 Jefferson St., Suite 301 Washington, MO 63090

Civil Engineering

Surveying & Mapping

Potable Water

Wastewater Treatment

21 DESIGN Civil Site Design Construction Support Transportation Wastewater Collection

Section B – Summary of Design Criteria

Plant Influent Characteristics		
Annual Average Daily Flow	55,000	gpd
Maximum Monthly Average Daily Flow	55,000	gpd
Peak Daily Flow	165,000	gpd
Peak Hourly Flow (w/out Equalization)	220,000	gpd
Influent BOD	225	mg/L
Influent BOD	103.2	lbs/day
Influent TSS	225	mg/L
Influent TSS	103.2	lbs/day
Influent NH3-N	33	mg/L
Influent NH3-N	15,1	lbs/day
Influent TKN	38	mg/L
Influent TKN	17.4	lbs/day
Influent pH	7	
Water Temperature	12	deg-C
Lagoon Aeration		
Actual Oxygen Supplied (BOD Reduction Only)	127	lbs/day
Target DO Residual	2.0	mg/L
Use 6, Existing 5.0 hp Mechanical Surface Aerators and 1		
Use 1, Existing 25.0 hp Mechanical Surface Aerator		
MBBR Influent Characteristics		
Annual Average Daily Flow	55,000	gpd
Maximum Monthly Average Daily Flow	55,000	gpd
Peak Daily Flow (w/Equalization)	110,000	gpd
Peak Hourly Flow (w/Equalization)	110,000	gpd
Influent BOD	40	mg/L
Influent TSS	40	mg/L
Influent NH3-N	26	mg/L
Influent TKN	13	mg/L
Design Influent TKN	13	mg/L
Influent pH	7	
Minimum MBBR Water Temperature	4	deg-C
Tank Sizing Summary		
No. of Tanks Proposed	2	
Length of Each	8.0	ft
Width of Each	8.0	ft























Civil Engineering

Surveying & Mapping

Potable Water

Wastewater Treatment

21 DESIGN

Civil Site Design

Construction Support

Transportation

Wastewater Collection

Side Water Depth of Each	5.75	ft
Tank Height of Each	7.25	ft
Volume of Each	2,753	gallons
Volume Total	5,505	gallons
Hydraulic Retention Time at Average Flow	2.4	hours
Hydraulic Retention Time at Peak Daily Flow	1.2	hours
Total Media Surface Area Requirement	4,627	m²
Total Media Surface Area Proposed	4,741	m²
MBBR Aeration Requirement Summary	Stage 1	
AOR (lbs/day)	35	lbs/day
Assumed Diffuser Subm. at AWL (ft.)	5	ft
Elevation (ft.)	634	ft
Alpha	0.70	
Beta	0.9	
Target DO Residual (MBBR Process) (mg/L)	5.0	mg/L
SOR (lbs/day)	138	lbs/day
Target Diffuser Efficiency/ft. Submergence	1.1	%
Airflow (scfm)	141	scfm
Airflow per 1,000 scfm	192	scfm/1,000 c
Blower Requirement Summary		
No. of Blowers	2	
Airflow Requirement for MBBR	141	scfm
Airflow Requirement for Air Lift into MBBR (4" Eductor)	17	scfm
Airflow Requirement for Post-Aeration in CCT	13	scfm
Airflow Requirement per Blower	171	scfm
Discharge Pressure	5,37	psig
Assumed Overall Efficiency	0.62	
Approximate BHP Requirement/Blower	5.9	bhp
Approximate BHP Requirement Total	5.9	bhp
Estimated Nameplate HP / Blower	7.5	hp
	Dual Lobe	
Blower Type	PD	
Existing Chlorine Contact Tank / Post Aeration		
Length	7.58	ft
Width	12	ft
Depth	7	ft
Contact Tank Volume	4,763	gallons
Disinfection HRT at Peak Flow	31.2	minutes
scfm/1,000 cf	20	scfm/1KCF

1351 Jefferson St., Suite 301 Washington, MO 63090

Civil Engineering		Civil Site Design
Surveying & Mapping		Construction Support
Potable Water DFSIGN		Transportation
Wastewater Treatment		Wastewater Collection
scfm Required for Complete Mixing (provided with blowers		
common for MBBR, Airlift and Lagoon Aeration)	12.73	scfm
Discharge Pressure	4.01	psig
Effluent Parameters		
Effluent CBOD	10	mg/L
Effluent CBOD	4.6	lbs/day
Effluent TSS	30	mg/L
Effluent TSS	13.8	lbs/day
Summer Effluent NH3-N	2.0	mg/L
Summer Effluent NH3-N	0.9	lbs/day
Winter Effluent NH3-N	5.0	mg/L
Winter Effluent NH3-N	2.3	lbs/day
E Coli	130/240	cfu/100 mL
Minimum Dissolved Oxygen	7.0	mg/L
Total Chlorine Residual	0.011	mg/L

Civil Engineering

Surveying & Mapping

Wastewater Treatment

Potable Water



Civil Site Design Construction Support Transportation Wastewater Collection

Section B – Summary of Design Criteria

Plant Influent Characteristics		
Annual Average Daily Flow	55,000	gpd
Maximum Monthly Average Daily Flow	55,000	gpd
Peak Daily Flow	165,000	gpd
Peak Hourly Flow (w/out Equalization)	220,000	gpd
Influent BOD	225	mg/L
Influent BOD	103.2	lbs/day
Influent TSS	225	mg/L
Influent TSS	103.2	lbs/day
Influent NH3-N	33	mg/L
Influent NH3-N	15.1	lbs/day
Influent TKN	38	mg/L
Influent TKN	17.4	lbs/day
Influent pH	7	
Water Temperature	12	deg-C
Lagoon Aeration		
Actual Oxygen Supplied (BOD Reduction Only)	127	lbs/day
Target DO Residual	2.0	mg/L
Use 6, Existing 5.0 hp Mechanical Surface Aerators and 1		
Use 1, Existing 25.0 hp Mechanical Surface Aerator		
MBBR Influent Characteristics		
Annual Average Daily Flow	55,000	gpd
Maximum Monthly Average Daily Flow	55,000	gpd
Peak Daily Flow (w/Equalization)	110,0 00	gpd
Peak Hourly Flow (w/Equalization)	110,000	gpd
Influent BOD	40	mg/L
Influent TSS	40	mg/L
Influent NH3-N	26	mg/L
Influent TKN	13	mg/L
Design Influent TKN	13	mg/L
Influent pH	7	
Minimum MBBR Water Temperature	4	deg-C
Tank Sizing Summary		
No. of Tanks Proposed	2	
Length of Each	8.0	ft
Width of Each	8.0	ft

1351 Jefferson St., Suite 301 Washington, MO 63090

Scanning Batch Sheet



DAILY (NOV

20 2019 02:09 PMJ PM

MEMORANDUM

Michael B. Kroeger, Director Division of Enforcement TO:

THROUGH: Justin Schul, Civil Enforcement Branch Manager

Amber Hawkins, Enforcement Specialist FROM:

- DATE: October 9, 2019
- SUBJECT: Case Closure Memo: AI ID: 3955 AI Name: Persimmon Ridge Subd. Activity ID: ERF20170001 Case No.: DOW-170261 KPDES No.: KY0090956 Shelby County
- Persimmon Ridge Subdivision is a golf course community who owns and operates a small . package plant for the treatment of residential wastewater. An NOV was issued in 2011 from a DMR review (2009-2010); all of the violations were permit exceedances. A letter of sufficiency was sent to PR Wastewater Management from the Louisville Regional Office on March 30, 2011, for issues found in the 2011 NOV.
- DMRs were reviewed in January of 2016 and again in November of 2017. Due to the number . of numeric exceedances (77) and continued exceedances, Persimmon Ridge Subdivision was referred to DENF.
- Another DMR review was conducted on 05/09/2018, for the 4th guarter of 2017 and 1st quarter of 2018. A total of 24 numeric exceedances were found.
- · Representatives from the responsible party participated in an administrative conference on May 11, 2018. Persimmon Ridge agreed to enter into an Agreed Order with the Cabinet. The Agreed Order was executed on September 17, 2018, with a \$10,450 civil penalty. The CAP was accepted on October 31, 2019. The final penalty payment was paid on March 27, 2019.
- Bluegrass Water Utility Operating Company, LLC is a company that acquires failing WWTP in Kentucky to make the much needed repairs and upgrades to those systems for a profit. Bluegrass acquired the WWTP on or around September 15, 2019. An Agreed Order was tendered by the Cabinet to Bluegrass outlining the remedial measures Bluegrass was to complete to bring Persimmon Ridge back into compliance with their KPDES permit. The Agreed Order was executed on September 03, 2019.
- The Division of Water is aware of the facts surrounding this referral and agrees with the . closure of this case.
- With the above-stated facts in mind, and with your initials above, this case will be closed in the Division of Enforcement.



June 27, 2022

Nicholas Fields Kentucky Department of Environmental Protection Division of Enforcement 300 Sower Blvd., 3rd Floor Frankfort, KY 40601

RE: Bluegrass Water Utility Operating Company, LLC Darlington Creek WWTP KYPDES Permit No. KY0105325 Agency No. 44397

Corrective Action Plan

In light of the Darlington Creek WWTP's current status, Bluegrass Water submits the following corrective action plan.

BWUOC has recently purchased this treatment plant. With the change of ownership, operational modifications have been implemented and are ongoing. Due to the poor maintenance of the facility by the previous ownership, the current plant has some areas of concern, which could potential prevent it from meeting limits.

1. Causes of Effluent Violations

- Nitrogen, Ammonia (NH3-N)
- Total Residual Chlorine
- Total Suspended Solids (TSS)
- Carbonaceous Biological Oxygen Demand (CBOD)
- E. Coli

A review was performed of EPA's Echo compliance website which lists violations. The Darlington Creek WWTF has been in "Significant noncompliance" between October 1, 2019, thru September 30, 2021, with numerous failures to report DMR. The package plant portion of the facility has not been maintained by the previous ownership and shows signs of rust and structural concerns. Areas with dense vegetation along the southwest of the facility causing debris to fall into wastewater process lines, which could cause clogging and backup along the system. Duckweed present on one of the clarifiers and it can potentially cause issues with meeting TSS limits.

The existing system does not have a function flow meter and there are concerns with accuracy of flow data. Additionally, there is no remote monitoring available at this system. The fence shows signs of deterioration, and it will require rehabilitation and/or repairs along several sections. Air headers showing signs of age and it will need to be addressed to reevaluate the effectiveness of aeration piping and any associated components along the facility.

2. System Evaluation and Corrective Actions

The improvements will include rehabilitation to the aeration system to include increase the air piping size and the number of diffusers to improve treatment process. Vegetation control throughout the plant, in order to remove any trees can branches around the plant. In addition, the installation of remote monitoring system and properly installed flow meter will allow operations to continuously monitor flows and alarm conditions.



3. Project Milestones

- a. Continue monitoring performance of facility (October 2, 2022)
- b. Procure equipment (April 5, 2023)
- e. Complete construction (October 5, 2023)

Sincerely,

a Uld

Enrique Chavez Jr. Utility Project Manager Email: <u>echavez@cswrgroup.com</u> Office: (314) 380-8043 Mobile: (314) 437-5714





AUG 2 6 2019

August 15, 2019

Division of Enforcement Attention: Director 300 Sower Blvd. Frankfort, KY 40601

RE: Bluegrass Water Utility Operating Company Friendly Agreed Orders

Dear Sir or Ma'am,

Please find enclosed signed copies of nine (9) Friendly Agreed Orders for Case No. DOW 19-3-0148 through Case No. DOW 19-3-0156 pertaining to the Bluegrass Water UOC acquisition case.

If you have any questions or require additional information, please contact me at your earliest convenience. Thank you.

Sincerely,

Jacob O. Freeman, PE Director, Engineering

Enclosures: (9)

FACILITIES CONSTRUCTION BRANCH WASTEWATER FACILITIES REVIEW SECTION

REFERENCE:	Permission I	Ridge Golf Section 19	Sewer Extension	ID # AI#3955APE20200001
PURPOSE: SLE				
ASSIGNED TO (OR INITIATED	BY):			
<u>MM</u>				
INITIALS	DATE			
TO: Supervisor for Approval			COMMENTS:	
Approved				
		_	Permission Ridge	WWTP WWTP
Initials	Date		KY0090956	
то:			COMMENTS:	
Approved				
Initials	Date	_		
TO:	Duio		COMMENTS:	
Approved				
Initials	Date	_		
TO: Shafiq Amawi, Branch Man			COMMENTS:	
Approved				
Initials	Date	_		
Notice of Violation Attached		Yes	XNo	
Sanction List		Yes	N No	
Tap on Ban		Yes	X No	
Other enforcement action		Yes	XNo	
100 year floodplain		Yes	XNo	
Letter of approval from owner		X Yes	No	
Regionalization Possible		Yes	X No	
Additional Plant Loading Current Plant loading Plant Capacity		<u>0.0011</u> <u>0.11</u> <u>0.14</u>	MGD MGD MGD	
Date sewer sanction ex	emption gra			

LAST PERSON RETURN TO ______

BM/JHR 1/5/00

FACILITIES CONSTRUCTION BRANCH PLAN LOG-IN SHEET

AI#3955APE20200001

PROJ ID# AI#3955APE2 RECEIVED COUNTY Shelby **PROJECT NAME :** Permission Ridge Golf Section 19 Sewer Extension CODE: SUBMITTED BY : NON-SRF PE: MM PA:JRR ENTERED BY: DATE: NUMBER REC'D APPLICATION REC'D CHECK RECEIVED AMOUNT PLANS SPECS SLE KPDES NONE YES NO \$200 1 TO BE COMPLETED BY REVIEW ENGINEER : **REVIEW TYPE : SLE** Permission Ridge WWTP WWTP **KPDES#** KY0090956 APPLICATION COMPLETE: FACILITY # INCOMPLETE NOTICE: PERMANENT OWNER/CODE APPLICANT/CODE CONSULTANT/CODE Permission Ridge Development Kerry Magan Consulting Engineers, PLC PHONE # PHONE # 502-419-4797 PHONE # 502-633-4365 FEE REQUIRED : 200 FEE PAID : \$200 NOD (1) DATE: RESPONSE (1): NOD (2) DATE: RESPONSE (2) : NOD (3) DATE: RESPONSE (3) : NOD (4) DATE: RESPONSE (4) : **ACTION CODE/DATE:** A/ (A)PPROVED (D)ENIED (R)ETURNED (N)O ACTION REQUIRED AS-(B)UILT (C)ONCUR NO (O)CCUPANCY (E)NFORCEMENT EN(F)ORCEMENT ACTION (W)ITHDRAWN (X)DEAD (V)OID NO (IF RETURN, RETURN FEE YES **DISPOSITION CODE/DATE : M/** (M)AILED TO ENGINEER; (P)LUMBING (E)NFORCEMENT (K)PDES DRINKING (W)ATER WATER (R)ESOURCES ADD.PLANT LOAD: 0.001076 MGD LENGTH OF SLE : 1084.18 FT CAPACITY ADDED : NA COST : **NEW** FACILITIES **ONLY** : FLOW MGD CAPACITY MGD COMMENTS :

ENTERED BY:_____

DATE:

DATE PROJECT ID	AI#3955APE20200001				
COUNTY	Shelby				
PROJECT NAME	Permission Ridge Golf Section	19 Sewer Extension	on		
NO. PLANS	1				
NO. SPECS					
ON SANCT LIST	1	NO Y	ES	EXEMPT	
KPDES #	KY0090956				
TREATMENT PLANT	Permission Ridge WWTP				
PLANT CAPACITY	0.142				
CURRENT FLOW	0.1082				
ADD PLANT LOAD MGD	0.001076				
TEMPO Agency Interest ID:	3955				
Tempo ID: (APE2004000_)					
TYPE OF APP:	SLE	SLE	Const		
CHECK RECEIVED	Yes	yes	no	Sewer Sanction List	Exer
CHECK AMOUNT	\$200				
AMOUNT REQUIRED	\$200			Municipal MWPP Report 9-15-04	
APPLICANT	Permission Ridge Developmen	t			
APPLICANT PH #	502-419-4797	•			
CONSULTANT NAME	Kerry Magan Consulting Engir	neers PLC			
CONS. PH #	502-633-4365				
OWNER	302 033 1303				
OWNER PH #					
CITY LETTERS	Yes	yes	no		
REVIEWER	Mohammed Mohiuddin	yes	по	X: 85 26 28.05	۱۸/
REVIEWER INITIALS	MM			Y: 38 17 42.53	
REVIEWER PHONE	502-782-7020			1. 38 17 42.33	IN
REVIEWER FHOME	302-782-7020			Saarahahla Daatar	
Input number of houses for sul	bdivision other users below			Searchable Roster HUC12 ####################################	+#
houses	Jurvision, other users below				+#
property service connections					
other uses:					
other uses.					
APPROVAL DATE					
AFFROVAL DATE					
1st NOD					
Response					
Description:					
2nd NOD					
Response					
Description:					
Description.					
3rd NOD					
Response					
Description:					
Description.					
4th NOD					
Response					
Description:					

<u>mpt List</u>

This is a computer genera Notes Workshe	ted calculation and should be filed as <mark>et</mark>	NOT FOR PUBLIC INSPECTION ID: AI#3955APE20200001			
Project Name:	Permission Ridge Golf Section 19 Sewer Extension	County:	Shelby		
ID Number:	AI#3955APE20200001	Date:			
Consultant:	Kerry Magan Consulting Engineers, PLC				
Reviewed By:	Mohammed Mohiuddin	Plant Design Capacity:	0.14		
Treatment Plant:	Permission Ridge WWTP	Present Plant Loading:	0.11		
On Sanction List:					

I. SEWERS

Size: (inches)	8	
Length:	1084.18 gra	vity
Pipe Materials and Joints:	PVC	
Minimum Slope: (percent)	0.40	
Maximum Manhole Spacing:	400	
Drop Manhole Required:	no	
Cover: (inches)	ok	
Aerial Crossings (piers)	no	
Sewer in Fill Area (compaction)	no	
Tests:	standard	
Water Line Crossings:	no	
Stream Crossings:	no	
Additional Loading:	0.0011	

COMMENTS:

This is a computer generated calculation and should be filed as NOT FOR PUBLIC INSPECTION Worksheet for gravity sewers ID: 13955APE20200001

Reviewed by: Mohammed Mohiuddin Project information Permission Ridge Golf Section 19 Sewer Extension County Shelby Project ID Al#3955APE20200001 Engineer Kerry Magan Consulting Engineers, PLC

Manhole	e data							M	anhole St	oraę	ge Calcula	itions
Segme nt	Manhole #	Station number	Manhole elev.	Invert out	Invert in	Drop Manhole diameter	Pipe diamete r	Flood	Manhol e volume (gallons)	Flood	Pipe volume (gallons)	
Line Line Line Line	MH-3 MH-2 MH-1 EX MH	55.62 455.55 855.37 1139.80	0.00 0.00 0.00 0.00	631.18 629.08 626.98 625.46	631.28 629.18 627.08 625.56	4 4 4	8 8 8		0 0 0 0		0 0 0	
Line Line Line	5 6 7	0.00 0.00 0.00	0.00 0.00 0.00	0.00 0.00 0.00	0.00 0.00 0.00	4 4 4	8 8 8		0 0		0 0 0	
Line	8 9	0.00	0.00	0.00	0.00	4	8 8		0		0	
Line Line	10 11	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	4 4	8 8		0 0		0 0	
Line Line	12 13	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	4 4	8 8		0		0 0	
Line Line	14 15	0.00	0.00	0.00	0.00	4	8		0		0	
Line	16	0.00	0.00 0.00	0.00	0.00	4	8		0		0	
Line Line	17 18	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	4 4	8 8		0		0 0	
Line Line	19 20	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	4 4	8 8		0		0 0	
Line	21	0.00	0.00	0.00	0.00	4	8		0		0	
Line Line	22 23	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	4 4	8 8		0		0 0	
Line Line	24 25	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	4 4	8 8		0		0 0	
Line	26	0.00	0.00	0.00	0.00	4	8		0		0	
Line Line	27 28	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	4 4	8 8		0		0 0	
Line Line	29 30	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	4 4	8 8		0		0	
Line	31	0.00	0.00	0.00	0.00	4	8		0		0	
Line Line	32 33	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	4	8		0		0	
Line Line	34 35	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	4 4	8 8		0		0	
	nd length cal	Upslop		Slope	Minimu m	lope	Sums	ngth	0 Maximu minter-		0 Pipe	Double
Segme nt	Downslop e end manhole	Upslop e end manhol e	Slope	(percen t)	m Allowab le slope (%)	Flag slope	Length (feet)	Flag length	, Maximu m inter- manhol e length		Pipe diameter	Double Check
Segme nt Line Line Line	Downslop e end manhole MH-3 MH-2 MH-1	Upslop e end manhol e MH-2 MH-1 EX MH	-0.0055 -0.0055 -0.0057	(percen t) -0.55 -0.55 -0.57	m Allowab le slope (%) 0.40 0.40 0.40	Flag	Length (feet) 399.9 399.8 284.4	Flag length	Maximu m inter- manhol e length 400 400 400		Pipe diameter 8 8 8	
Segme nt Line Line	Downslop e end manhole MH-3 MH-2	Upslop e end manhol e MH-2 MH-1	-0.0055 -0.0055	(percen t) -0.55 -0.55	m Allowab le slope (%) 0.40 0.40	## Flag slope	Length (feet) 399.9 399.8	Flag length	Maximu m inter- manhol e length 400 400		Pipe diameter 8 8	
Segme nt Line Line Line Line Line Line	Downslop e end manhole MH-3 MH-2 MH-1 5	Upslop e end manhol e MH-2 MH-1 EX MH	-0.0055 -0.0055 -0.0057 #DIV/0! #DIV/0! #DIV/0!	(percen t) -0.55 -0.55 -0.57 #DIV/0! #DIV/0! #DIV/0!	m Allowab le slope (%) 0.40 0.40 0.40 0.40 0.40 0.40	Flag	Length (feet) 399.9 399.8 284.4 0.0 0.0 0.0	Flag length	Maximu m inter- manhol e length 400 400 400 400 400 400		Pipe diameter 8 8 8 8 8 8 8 8 8 8 8	
Segme nt Line Line Line Line Line Line Line Line	Downslop e end manhole MH-3 MH-2 MH-1 5 6 7 8 9	Upslop e end manhol e MH-2 MH-1 EX MH 6 7 8 9 10	-0.0055 -0.0055 -0.0057 #DIV/0! #DIV/0! #DIV/0! #DIV/0! #DIV/0!	(percen t) -0.55 -0.55 -0.57 #DIV/0! #DIV/0! #DIV/0! #DIV/0!	m Allowab le slope (%) 0.40 0.40 0.40 0.40 0.40 0.40 0.40 0.4	Flag	Length (feet) 399.9 399.8 284.4 0.0 0.0 0.0 0.0 0.0	Flag length	Maximu m inter- manhol e length 400 400 400 400 400 400 400 400		Pipe diameter 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	
Segme nt Line Line Line Line Line Line Line	Downslop e end manhole MH-3 MH-2 MH-1 5 6 7 8	Upslop e end manhol e MH-2 MH-1 EX MH 6 7 8 9	-0.0055 -0.0055 -0.0057 #DIV/0! #DIV/0! #DIV/0! #DIV/0! #DIV/0! #DIV/0!	(percen t) -0.55 -0.55 -0.57 #DIV/0! #DIV/0! #DIV/0! #DIV/0! #DIV/0!	m Allowab le slope (%) 0.40 0.40 0.40 0.40 0.40 0.40 0.40 0.4	Flag	Length (feet) 399.9 399.8 284.4 0.0 0.0 0.0 0.0	Flag length	Maximu m inter- manhol e length 400 400 400 400 400 400 400 400 400 40		Pipe diameter 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	
Segme nt Line Line Line Line Line Line Line Line	Downslop e end manhole MH-3 MH-2 MH-1 5 6 7 8 9 10	Upslop e end manhol e MH-2 MH-1 EX MH 6 7 8 9 10 11	-0.0055 -0.0055 -0.0057 #DIV/0! #DIV/0! #DIV/0! #DIV/0! #DIV/0! #DIV/0! #DIV/0!	(percen t) -0.55 -0.55 -0.57 #DIV/0! #DIV/0! #DIV/0! #DIV/0! #DIV/0! #DIV/0!	m Allowab le slope (%) 0.40 0.40 0.40 0.40 0.40 0.40 0.40 0.4	Flag	Length (feet) 399.9 399.8 284.4 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	Flag length	Maximu m inter- manhol e length 400 400 400 400 400 400 400 400 400 40		Pipe diameter 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	
Segme nt Line Line Line Line Line Line Line Line	Downslop e end manhole MH-3 MH-2 MH-1 5 6 7 8 9 10 11 12 13 14	Upslop e end manhol e MH-2 MH-1 EX MH 6 7 8 9 10 11 12 13 14 15	-0.0055 -0.0055 -0.0057 #DIV/0! #DIV/0! #DIV/0! #DIV/0! #DIV/0! #DIV/0! #DIV/0! #DIV/0!	(percen t) -0.55 -0.55 -0.57 #DIV/0! #DIV/0! #DIV/0! #DIV/0! #DIV/0! #DIV/0! #DIV/0! #DIV/0!	m Allowab le slope (%) 0.40 0.40 0.40 0.40 0.40 0.40 0.40 0.4	Flag ########	Length (feet) 399.9 399.8 284.4 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	Flag length	Maximu minter- manhol e length 400 400 400 400 400 400 400 400 400 40		Pipe diameter 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	
Segme nt Line Line Line Line Line Line Line Line	Downslop e end manhole MH-3 MH-2 MH-1 5 6 7 8 9 10 11 12 13 14 15 16	Upslop e end manhol e MH-2 MH-1 EX MH 6 7 8 9 10 11 12 13 14 15 16 17	-0.0055 -0.0055 -0.0057 #DIV/0! #DIV/0! #DIV/0! #DIV/0! #DIV/0! #DIV/0! #DIV/0! #DIV/0!	(percen t) -0.55 -0.57 #DIV/0! #DIV/0! #DIV/0! #DIV/0! #DIV/0! #DIV/0! #DIV/0! #DIV/0! #DIV/0! #DIV/0!	m Allowab le slope (%) 0.40 0.40 0.40 0.40 0.40 0.40 0.40 0.4	Flag	Length (feet) 399.9 399.8 284.4 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	Flag length	Maximu minter- manhol e length 400 400 400 400 400 400 400 400 400 40		Pipe diameter 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	
Segme nt Line Line Line Line Line Line Line Line	Downslop e end manhole MH-3 MH-2 MH-1 5 6 7 8 9 10 11 12 13 14 15 16 17	Upslop e end manhol e MH-2 MH-1 EX MH 6 7 8 9 10 11 12 13 14 15 16 17 18	-0.0055 -0.0057 #DIV/0! #DIV/0! #DIV/0! #DIV/0! #DIV/0! #DIV/0! #DIV/0! #DIV/0! #DIV/0! #DIV/0!	(percen t) -0.55 -0.55 -0.57 #DIV/0! #DIV/0! #DIV/0! #DIV/0! #DIV/0! #DIV/0! #DIV/0! #DIV/0! #DIV/0! #DIV/0!	m Allowab le slope (%) 0.40 0.40 0.40 0.40 0.40 0.40 0.40 0.4	Flag	Length (feet) 399.9 399.8 284.4 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	Flag length	Maximu m inter- manhol e length 400 400 400 400 400 400 400 400 400 40		Pipe diameter 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	
Segme nt Line Line Line Line Line Line Line Line	Downslop e end manhole MH-3 MH-2 MH-1 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	Upslop e end manhol e MH-1 EX MH 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	-0.0055 -0.0055 -0.0057 #DIV/0! #DIV/0! #DIV/0! #DIV/0! #DIV/0! #DIV/0! #DIV/0! #DIV/0! #DIV/0! #DIV/0! #DIV/0! #DIV/0!	(percen t) -0.55 -0.57 #DIV/0! #DIV/0! #DIV/0! #DIV/0! #DIV/0! #DIV/0! #DIV/0! #DIV/0! #DIV/0! #DIV/0! #DIV/0!	m Allowab le slope (%) 0.40 0.40 0.40 0.40 0.40 0.40 0.40 0.4	Lag	Length (feet) 399.9 399.8 284.4 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	Flag length	Maximu minter- manhol e length 400 400 400 400 400 400 400 400 400 40		Pipe diameter 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	
Segme nt Line Line Line Line Line Line Line Line	Downslop e end manhole MH-3 MH-2 MH-1 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	Upslop e end manhol e MH-1 EX MH 6 7 8 9 10 11 12 13 14 15 16 17 18 20 21 22	-0.0055 -0.0057 #DIV/0! #DIV/0! #DIV/0! #DIV/0! #DIV/0! #DIV/0! #DIV/0! #DIV/0! #DIV/0! #DIV/0! #DIV/0! #DIV/0! #DIV/0! #DIV/0!	(percen t) -0.55 -0.55 -0.57 #DIV/0! #DIV/0! #DIV/0! #DIV/0! #DIV/0! #DIV/0! #DIV/0! #DIV/0! #DIV/0! #DIV/0! #DIV/0! #DIV/0! #DIV/0!	m Allowab (%) 0.40 0.40 0.40 0.40 0.40 0.40 0.40 0.4	Lag	Length (feet) 399.9 399.8 284.4 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	Flag length	Maximu m inter- manhol e length 400 400 400 400 400 400 400 400 400 40		Pipe diameter 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	
Segme nt Line Line Line Line Line Line Line Line	Downslop e end manhole MH-3 MH-2 MH-1 5 6 7 8 9 0 11 12 13 14 15 16 17 18 19 20	Upslop e end manhol e MH-2 MH-1 EX MH 6 7 8 9 10 11 21 3 14 15 16 17 18 20 21 22 23 324	-0.0055 -0.0055 -0.0057 #DIV/0! #DIV/0! #DIV/0! #DIV/0! #DIV/0! #DIV/0! #DIV/0! #DIV/0! #DIV/0! #DIV/0! #DIV/0! #DIV/0!	(percen t) -0.55 -0.55 -0.57 #DIV/0! #DIV/0! #DIV/0! #DIV/0! #DIV/0! #DIV/0! #DIV/0! #DIV/0! #DIV/0! #DIV/0! #DIV/0! #DIV/0! #DIV/0! #DIV/0!	m Allowab le slope (%) 0.40 0.40 0.40 0.40 0.40 0.40 0.40 0.4	Lag	Length (feet) 399.9 399.8 284.4 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	Flag length	Maximu m inter- manhol e length 400 400 400 400 400 400 400 400 400 40		Pipe diameter 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	
Segme nt Line Line Line Line Line Line Line Line	Downslop e end manhole MH-3 MH-2 MH-1 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 324	Upslop e end manhol e MH-2 MH-1 EX MH 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25	-0.0055 -0.0057 #DIV/0! #DIV/0! #DIV/0! #DIV/0! #DIV/0! #DIV/0! #DIV/0! #DIV/0! #DIV/0! #DIV/0! #DIV/0! #DIV/0! #DIV/0! #DIV/0! #DIV/0!	(percen t) -0.55 -0.57 #DIV/0! #DIV/0! #DIV/0! #DIV/0! #DIV/0! #DIV/0! #DIV/0! #DIV/0! #DIV/0! #DIV/0! #DIV/0! #DIV/0! #DIV/0! #DIV/0! #DIV/0! #DIV/0!	m Allowab (%) 0.40 0.40 0.40 0.40 0.40 0.40 0.40 0.4	Lag	Length (feet) 399.9 284.4 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	Flag length	Maximu m inter- manhol e length 400 400 400 400 400 400 400 400 400 40		Pipe diameter 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	
Segme nt Line Line Line Line Line Line Line Line	Downslop e end manhole MH-3 MH-2 MH-1 5 6 7 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26	Upslop e end manhol e MH-2 MH-1 EX MH 6 7 8 9 10 11 12 13 14 15 16 7 18 19 20 21 22 23 24 25 26 26 27	-0.0055 -0.0057 #DIV/01 #DIV/01 #DIV/01 #DIV/01 #DIV/01 #DIV/01 #DIV/01 #DIV/01 #DIV/01 #DIV/01 #DIV/01 #DIV/01 #DIV/01 #DIV/01 #DIV/01 #DIV/01 #DIV/01	(percen t) -0.55 -0.55 #DI/V0! #DI/V0! #DI/V0! #DI/V0! #DI/V0! #DI/V0! #DI/V0! #DI/V0! #DI/V0! #DI/V0! #DI/V0! #DI/V0! #DI/V0! #DI/V0! #DI/V0! #DI/V0!	m Allowab le slope (%) 0.40 0.40 0.40 0.40 0.40 0.40 0.40 0.4	1991 ##################################	Length (teet) 399.9 284.4 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	Flag length	Maximu m inter- manhol e length 400 400 400 400 400 400 400 400 400 40		Pipe diameter 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	
Segme nt Line Line Line Line Line Line Line Line	Downslop e end manhole MH-3 MH-2 MH-1 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25	Upslop e end manhol e MH-2 MH-1 EX MH 6 7 8 9 10 11 21 3 14 15 16 6 7 8 9 10 11 22 23 24 25 26 27 28 29	-0.0055 -0.0057 -0.0057 #DIV/0! #DIV/0! #DIV/0! #DIV/0! #DIV/0! #DIV/0! #DIV/0! #DIV/0! #DIV/0! #DIV/0! #DIV/0! #DIV/0! #DIV/0! #DIV/0! #DIV/0!	(percen t) -0.55 -0.57 -0.57 #DIV/0! #DIV/0! #DIV/0! #DIV/0! #DIV/0! #DIV/0! #DIV/0! #DIV/0! #DIV/0! #DIV/0! #DIV/0! #DIV/0! #DIV/0! #DIV/0! #DIV/0! #DIV/0! #DIV/0! #DIV/0! #DIV/0!	m Allowab le slope (%) 0.40 0.40 0.40 0.40 0.40 0.40 0.40 0.4	198 ####################################	Length (feet) 399.9 399.8 284.4 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	Flag length	Maximu m inter- manhol e length 400 400 400 400 400 400 400 400 400 40		Pipe diameter 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	
Segme nt Line Line Line Line Line Line Line Line	Downslop e end manhole MH-3 MH-2 MH-1 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29	Upslop e end manbol e MH-2 MH-1 EX MH 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 3 24 25 26 27 28 29 30	-0.0055 -0.0057 -0.0057 #DIV/01 #DIV/01 #DIV/01 #DIV/01 #DIV/01 #DIV/01 #DIV/01 #DIV/01 #DIV/01 #DIV/01 #DIV/01 #DIV/01 #DIV/01 #DIV/01 #DIV/01 #DIV/01 #DIV/01 #DIV/01 #DIV/01	(percen 1) -0.55 -0.57 #DIV/0! #DI	m Allowab (%) (%) (%) (%) (%) (%) (%) (%) (%) (%)	1901 ###################################	Length (feet) 399.9 284.4 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	Flag length	Maximu m inter- manhol e length 400 400 400 400 400 400 400 400 400 40		Pipe diameter 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	
Segme nt Line Line Line Line Line Line Line Line	Downslop e end manhole MH-3 MH-2 MH-1 5 6 7 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31	Upslop e end manhol e MH-2 MH-1 EX MH 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 26 27 28 29 30 31 32	-0.0055 -0.0057 -0.0057 #DIV/01	(percen 1) -0.55 -0.57 #DIV/0! #DI	m Allowab le slope (%) 0.40 0.40 0.40 0.40 0.40 0.40 0.40 0.4	并并非非非非非非非非非非非非非非非非非非非非非非非非非非非非非非非非非非非	Length (teet) 399.9 284.4 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	Flag length	Maximu m inter- manhol e length 400 400 400 400 400 400 400 400 400 40		Pipe diameter 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	
Segme nt Line Line Line Line Line Line Line Line	Downslop e end manhole MH-3 MH-2 MH-1 5 6 7 8 9 10 11 12 13 14 15 6 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33	Upslop e end manhol e MH-2 MH-1 EX MH 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 20 30 31 32 33 34	-0.0055 -0.0057 #DIV/01	(percen 1) -0.55 -0.57 #DIV/01 #DI	m Allowab le slope (%) 0.40 0.40 0.40 0.40 0.40 0.40 0.40 0.4	并我并我带我我我我我我我我我我我我我我我我我我我我我我我我我我我我我我我我我	Length (feet) 399.9 284.4 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	Flag length	Maximu m inter- manhol e length 400 400 400 400 400 400 400 400 400 40		Pipe diameter 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	
Segme nt Line Line Line Line Line Line Line Line	Downslop e end manhole MH-3 MH-2 MH-1 5 6 7 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32	Upslop e end manbol e MH-2 MH-1 EX MH 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33	-0.0055 -0.0057 #DIV/0!	(percen 1) -0.55 -0.57 #DIV/01 #DI	m Allowab le slope (%) 0.40 0.40 0.40 0.40 0.40 0.40 0.40 0.4	指带指带指带指带指带指带指带指带指带指带指带指带指带	Length (feet) 399.9 399.8 284.4 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	Flag length	Maximu m inter- manhol e length 400 400 400 400 400 400 400 400 400 40		Pipe diameter 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	

1084.2

8 PVC 1084.2
NOT FOR PUBLIC INSPECTION

This is a computer generated calculation and should be filed as Worksheet for gravity sewers

D: 3955APE20200001

U	· · · · · · · · · · · · · · · · · · ·
Reviewed by:	Mohammed Mohiuddin
Project information Project Name County Project ID Engineer	Permission Ridge Golf Section 19 Sewer Extension Shelby Al#3955APE20200001 Kerry Magan Consulting Engineers, PLC

ounty	Shelby
oject ID	AI#3955APE20200001
igineer	Kerry Magan Consulting Engineers, PLC

Segment	Manhole #	Station number	Manhole elev.	Invert out	Invert in	Drop	Manhole diameter	Pipe diameter	Flood	Manhole volume (gallons)	Flood	Pipe volume (gallons)
Line	1	0.00	0.00	0.00	0.00		4			0		
Line	2	0.00	0.00	0.00	0.00		4	8		0		0
Line	3	0.00	0.00	0.00	0.00		4	8		0		0
Line	4	0.00	0.00	0.00	0.00		4	8		0		0
Line	5	0.00	0.00	0.00	0.00		4	8		0		0
Line	6	0.00	0.00	0.00	0.00		4	8		0		0
Line	7	0.00	0.00	0.00	0.00		4	8		0		0
Line	8	0.00	0.00	0.00	0.00		4	8		0		0
Line	9	0.00	0.00	0.00	0.00		4	8		0		0
Line	10	0.00	0.00	0.00	0.00		4	8		0		0
Line	11	0.00	0.00	0.00	0.00		4	8		0		0
Line	12	0.00	0.00	0.00	0.00		4	8		0		0
Line	13	0.00	0.00	0.00	0.00		4	8		0		0
Line	14	0.00	0.00	0.00	0.00		4	8		0		0
Line	15	0.00	0.00	0.00	0.00		4	8		0		0
Line	16	0.00	0.00	0.00	0.00		4	8		0		0
Line	17	0.00	0.00	0.00	0.00		4	8		0		0
Line	18	0.00	0.00	0.00	0.00		4	8		0		0
Line	19	0.00	0.00	0.00	0.00		4	8		0		0
Line	20	0.00	0.00	0.00	0.00		4	8		0		0
Line	21	0.00	0.00	0.00	0.00		4	8		0		0
Line	22	0.00	0.00	0.00	0.00		4	8		0		0
Line	23	0.00	0.00	0.00	0.00		4	8		0		0
Line	24	0.00	0.00	0.00	0.00		4	8		0		0
Line	25	0.00	0.00	0.00	0.00		4	8		0		0
Line	26	0.00	0.00	0.00	0.00		4	8		0		0
Line	27	0.00	0.00	0.00	0.00		4	8		0		0
Line	28	0.00	0.00	0.00	0.00		4 4	8		0		0
Line	29	0.00	0.00	0.00	0.00			8		0		0
Line Line	30 31	0.00	0.00	0.00	0.00		4	8 8		0		0
Line	31	0.00	0.00	0.00	0.00		4	8		0		
Line	32	0.00 0.00	0.00	0.00 0.00	0.00 0.00		4	8		0		0
Line	33 34	0.00	0.00	0.00	0.00		4	8		0		0
							4	8		0		0
Line	35	0.00	0.00	0.00	0.00		4	ö		U		U

								1 - 1	-	
Slope an	d length calc	ulations								
Segment	Downslope end manhole	Upslope end manhole	Slope	Slope (percent)	Minimum Allowable slope (%)	Flag slope	Length (feet)	Maximum Be for inter- E for manhole length	Pipe diameter	Double Check
Line	1	2	#DIV/0!	#DIV/0!	0.40	###	0.0	400	8	
Line	2	3	#DIV/0!	#DIV/0!	0.40	###	0.0	400	8	
Line	3	4	#DIV/0!	#DIV/0!	0.40	###	0.0	400	8	
Line	4	5	#DIV/0!	#DIV/0!	0.40	###	0.0	400	8	
Line	5	6	#DIV/0!	#DIV/0!	0.40	###	0.0	400	8	
Line	6	7	#DIV/0!	#DIV/0!	0.40	###	0.0	400	8	
Line	7	8	#DIV/0!	#DIV/0!	0.40	###	0.0	400	8	
Line	8	9	#DIV/0!	#DIV/0!	0.40	###	0.0	400	8	
Line	9	10	#DIV/0!	#DIV/0!	0.40	###	0.0	400	8	
Line	10	11	#DIV/0!	#DIV/0!	0.40	###	0.0	400	8	
Line	11	12	#DIV/0!	#DIV/0!	0.40	###	0.0	400	8	
Line	12	13	#DIV/0!	#DIV/0!	0.40	###	0.0	400	8	
Line	13	14	#DIV/0!	#DIV/0!	0.40	###	0.0	400	8	
Line	14	15	#DIV/0!	#DIV/0!	0.40	###	0.0	400	8	
Line	15	16	#DIV/0!	#DIV/0!	0.40	###	0.0	400	8	
Line	16	17	#DIV/0!	#DIV/0!	0.40	###	0.0	400	8	
Line	17	18	#DIV/0!	#DIV/0!	0.40	###	0.0	400	8	
Line	18	19	#DIV/0!	#DIV/0!	0.40	###	0.0	400	8	
Line	19	20	#DIV/0!	#DIV/0!	0.40	###	0.0	400	8	
Line	20	21	#DIV/0!	#DIV/0!	0.40	###	0.0	400	8	
Line	21	22	#DIV/0!	#DIV/0!	0.40	###	0.0	400	8	
Line	22	23	#DIV/0!	#DIV/0!	0.40	###	0.0	400	8	
Line	23	24	#DIV/0!	#DIV/0!	0.40	###	0.0	400	8	
Line	24	25	#DIV/0!	#DIV/0!	0.40	###	0.0	400	8	
Line	25	26	#DIV/0!	#DIV/0!	0.40	###	0.0	400	8	
Line	26	27	#DIV/0!	#DIV/0!	0.40	###	0.0	400	8	
Line	27	28	#DIV/0!	#DIV/0!	0.40	###	0.0	400	8	
Line	28	29	#DIV/0!	#DIV/0!	0.40	###	0.0	400	8	
Line	29	30	#DIV/0!	#DIV/0!	0.40	###	0.0	400	8	
Line	30	31	#DIV/0!	#DIV/0!	0.40	###	0.0	400	8	
Line	31	32	#DIV/0!	#DIV/0!	0.40	###	0.0	400	8	
Line	32	33	#DIV/0!	#DIV/0!	0.40	###	0.0	400	8	
Line	33	34	#DIV/0!	#DIV/0!	0.40	###	0.0	400	8	
Line	34	35	#DIV/0!	#DIV/0!	0.40	###	0.0	401	8	
							0.0	_		

	Department for Environmental Protection - Division of Water Facilities Construction Branch					
	14 Reilly Road	, Frankf	ort, Kentucky	40601		
FAX		No. Page	Date: es Incl. Cover Sheet:			
To: Name: Company:		From: Phone:	Mohammed Mohiudo 502-564-2225 ext. 50 Commonwealth of Ko Division of Water	02-782-7020		
Fax Phone:		Fax #:	Facilities Construction 502-564-2741	on Branch		
Remarks: Urgent	For review	X As requested	Please comment	Reply ASAP		
Permi	a copy of the app ssion Ridge Go et ID: AI#3955AI	If Section 19 S	r: ewer Extension			

Facilities Construction Branch						
NOTE: PLEASE CHECK YOUR NAME						
]	Manager's (Office		
			Bill	Gatewood		
			Deb	obie Pyles		
				-		
Project Administration Municipal Planning Wastewater Facilities Municipal Design & Construction						
Kelli Rice		Bill Chlebowy		Bennie McWain		Mike Tipton
Cathy Arnet	t 🗖	Shafiq Amawi		Ross Bishop		Paul Bridges
Jennifer Peter		Julie Anderson		Bob Robards		Hossein Mehdipour
Laura Thom	pson 🛛	Hamid Beykzadeh		David Phillips		Ron Ryker
		Don Wills		Jim Stanley		Larry Warren
		Ken Pidgeon	•	John Shupp		Paul Fitch
		Mortaza Tabayeh				
		Jill Bertelson				

INFORMATION FOR FIELD SPOT CHECK TO SEE IF FACILITY CONSTRUCTION HAS BEEN STARTED PRIOR TO PLAN APPROVAL.

Date requested:	
Project name:	Permission Ridge Golf Section 19 Sewer Extension
ID number:	AI#3955APE20200001
County:	Shelby
Торо Мар:	

Contact Person: Address:

Phone:

Engineer:

Treatment Plant:

Date received in Facilites Construct	ction
Expected date of approval:	1/7/1900
Water lines on plans?	
Review engineer	Mohammed Mohiuddin

Directions/sketch

SITE SURVEY REQUEST

_			
1	Ľ	0	٠
		U	
		~	

From:	Mohammed Moh Facilities Construction Branch	niuddin
Date requested: Subject: Project Description:	Permission Ridg	e Golf Section 19 Sewe ID number: AI#3955APE
Project County: Nearest Community: Applicant name: Address:	<u>Shelby</u>	Topo Map No. Receiving Stream: Phone:

Project Engineer or installer: Kerry Magan Consulting Engineers, PL(Phone: 502-633-436:

Nearby Existing Discharges in Drainage Area:

The intended use for this proposed sewage treatment plant is:

Comments or Special Requests:

cc: Sam Lester

* NOTE: When a positive site survey is received, notify the KPDES Branch Program Coordinator

20200001

<u>5</u>



Pump Performance Datasheet

Encompass 2.0 - 22.0.0

Item number Service Quantity Quote number	: Default : : 1 :	Size Stages Based on curve number Date last saved	: Hydromatic - HPGF/HPGFX-300 : 1 : SUB_G_O_AH_00001_B_4 Rev 2012-03-23 : 04 Apr 2022 1:35 PM
Operating Conditions Flow, rated Differential head / pressure, rated (reques Differential head / pressure, rated (actual Suction pressure, rated / max NPSH available, rated Site Supply Frequency Performance	,	Liquid Liquid type Additional liquid description Solids diameter, max Solids diameter limit Solids concentration, by volume Temperature, max Fluid density, rated / max	: Water : : 0.00 in : 0.00 in : 0.00 % : 68.00 deg F : 1.000 / 1.000 SG
Speed criteria Speed, rated Impeller diameter, rated Impeller diameter, maximum Impeller diameter, minimum	: Synchronous : 1750 rpm : 7.75 in : 8.00 in : 7.00 in	Viscosity, rated Vapor pressure, rated Material Material selected Pressure Data	: 1.00 cP : 0.34 psi.a : Standard
Efficiency NPSH required / margin required nq (imp. eye flow) / S (imp. eye flow) Minimum Continuous Stable Flow Head, maximum, rated diameter Head rise to shutoff Flow, best eff. point	flow) / S (imp. eye flow): 24 / - Metric unitsntinuous Stable Flow: 15.00 USgpmum, rated diameter: 46.25 ftshutoff: 28.22 %. point: -	Maximum working pressure Maximum allowable working press Maximum allowable suction press Hydrostatic test pressure Driver & Power Data (@Max der Driver sizing specification Margin over specification	ure : N/A : N/A
Flow ratio, rated / BEP Diameter ratio (rated / max) Head ratio (rated dia / max dia) Cq/Ch/Ce/Cn [ANSI/HI 9.6.7-2010] Selection status	: - : 96.88 % : 79.67 % : 1.00 / 1.00 / 1.00 / 1.00 : Acceptable	Service factor Power, hydraulic Power, rated Power, maximum, rated diameter Motor rating	: 1.00 : 0.50 hp : 2.95 hp : 2.96 hp : 3.00 hp / 2.24 kW (Fixed)







October 20, 2021

Nicholas Fields Kentucky Department of Environmental Protection Division of Enforcement 300 Sower Blvd., 3rd Floor Frankfort, KY 40601

Bluegrass Water Utility Operating Company, LLC Delaplain Disposal WWTP KYPDES Permit No. KY0079049 Agency No. 3901

Corrective Action Plan

In light of the Delaplain Disposal WWTP's failure to meet permitted limits, Bluegrass Water submits the following corrective action plan.

BWUOC has recently purchased this treatment plant. With the change of ownership, operational modifications have been implemented and are ongoing. Due to the poor maintenance of the facility by the previous ownership, the current plant Is not capable of consistently meeting limits.

- 1. Causes of Effluent Violations
 - Ammonia
 - Total Suspended Solids (TSS)
 - Carbonaceous Biological Oxygen Demand (CBOD)
 - E. Coli

A review was performed of EPA's Echo compliance website which lists violations. The Delaplain WWTF has been in "Significant noncompliance" for all of the last 12 quarters with numerous effluent exceedances as well as notices for improper maintenance and operations of the facility.

The facility is reaching capacity limitations, as the average daily flow and peak flows periodically exceed the rated capacity of the plant. The new operators have significantly improved the average performance of the facility, but the organic and hydraulic overloading conditions remain and during wet weather events, the facility is at risk of continued violations. The heavy organic loading also results in having minimal sludge storage capacity.

2. System Evaluation and Corrective Actions

The existing system will need to be expanded in the coming years. In an effort to make progress toward this goal as a part of the short term improvements, the improvements will be phased.

A Mission Monitoring system has already been installed and is being utilized to remotely monitor the facility. The existing flow meter has been calibrated, and the system flows and loadings are being monitored.

Ultimately, we believe that the system will require an increase in capacity from a rated average daily flow of 240,000 gpd to at least 300,000 gpd, and the peak flows received at the plant will need to be equalized to reduce peak flows sent into the plant. Ultimately, the improvements should include the addition of equalization and influent pumping facilities (to reduce peak flows conveyed into the plant), conversion from activated sludge to integrated fixed film activated



sludge (to reduce the solids loading to the clarifier, to increase the allowable flow rate into the clarifier, and to reduce sludge production), and the addition of tertiary filtration. The system may also ultimately require the addition of a second stage of clarification; however, the flows into the system are being monitored to see if this will ultimately be required.

Because the new operators have successfully turned around the system performance and met limits 5 of the 6 most recent months, we propose to make improvements in phases with the expectation that the first phase of improvements will allow the system to meet effluent limits in the short term. However, the Delaplain area is growing rapidly and the need for a second stage of improvements is anticipated.

The first phase of improvements will include the addition of moving bed biological reactor "cages" to be installed within the existing aeration tanks and for new blowers to supply air to the integral diffusers. It is anticipated that the new cages will allow the mixed liquor concentration to be utilized within the activated sludge system to drop from 4,000-5,000 mg/L down to 2,000-2,500 mg/L. (Future phases of improvements could allow the mixed liquor to be eliminated entirely, and this will be part of the plan). This reduction in biological solids in the system will have a significant benefit on the solids loading rate to the clarifier, it will reduce the depth of the sludge blanket in the clarifier, and it will reduce the overall waste activated sludge solids produced. The addition of a tertiary filtration system will also be included in the first phase of improvements. When the clarifier experiences hydraulic overloading conditions, the tertiary filter will be able to capture any solids leaving the clarifier system.

The existing system uses chlorine gas to disinfect and sodium bisulfate gas to dechlorinate. The existing chemical feed systems will remain in service. However, the effluent flow meter and dechlorination feed system will be relocated to downstream of the filter to increase the contact time and to allow the water level in chlorine contact tank and post aeration tank to be raised to allow the effluent to flow by gravity to the new filter. The first phase of improvements will also include the addition of a polymer feed system to be used during wet weather events to retain biomass in the secondary clarifier.

The second phase of improvements will include the addition of an equalization tank and an influent pumping system to minimize the peak flows sent to system. Between the first and second phases of construction, the reduction of infiltration and inflow will be targeted.

It is possible that a third phase of improvements to add a second stage clarifier may be required in the future. It is understood that the system area is growing rapidly.

3. Project Milestones

- a. Continue monitoring performance of facility (June 30, 2023)
- b. Submit construction permit application for major modifications (January 15, 2022)
- c. Procure equipment (May 15, 2022)
- d. Receive Construction Permit (August 30, 2022)
- e. Complete construction (June 30, 2023)



Sincerely,

haus.

ENRIQUE CHAVEZ JR. Utility Project Manager

(314) 380-8043 (314) 437-5714 (314) 736-4743 echavez@cswrgroup.com 1650 Des Peres Rd., Suite 303 Des Peres, MO 63131 centralstateswaterresources.com





March 17, 2022

Nicholas Fields Kentucky Department of Environmental Protection Division of Enforcement 300 Sower Blvd., 3rd Floor Frankfort, KY 40601

Bluegrass Water Utility Operating Company, LLC Delaplain Disposal WWTP KYPDES Permit No. KY0079049 Agency No. 3901

Corrective Action Plan

In light of the Delaplain Disposal WWTP's failure to meet permitted limits, Bluegrass Water submits the following corrective action plan.

BWUOC has recently purchased this treatment plant. With the change of ownership, operational modifications have been implemented and are ongoing. Due to the poor maintenance of the facility by the previous ownership, the current plant is not capable of consistently meeting limits.

- 1. Causes of Effluent Violations
 - Ammonia
 - Total Suspended Solids (TSS)
 - Carbonaceous Biological Oxygen Demand (CBOD)
 - E. Coli

A review was performed of EPA's Echo compliance website which lists violations. At the time of Bluegrass Water's acquisition of the Delaplain WWTF, it had been in a state of "Significant noncompliance" for the previous 12 quarters with numerous effluent exceedances as well as notices for improper maintenance and operations of the facility. Following acquisition by Bluegrass water, operational improvements, facility cleanup, and basic repairs have begun and while facility performance has improved the facility continues to exceed permitted limits for Ammonia, total residual chlorine, E.coli, Ammonia, Total suspended solids, and CBOD. The facility is reaching capacity limitations, as the average daily flow and peak flows periodically exceed the rated capacity of the plant. The new operators have significantly improved the average performance of the facility, but the organic and hydraulic overloading conditions remain and during wet weather events, the facility is at risk of continued violations. The heavy organic loading also results in having minimal sludge storage capacity.

2. System Evaluation and Corrective Actions

Improvements must be made to the facility, including process modifications in order for the plant to reliably meet permitted limits. Mission Monitoring system has already been installed and is being utilized to remotely monitor the facility. The existing flow meter has been calibrated, and the system flows, and loadings are being monitored. Ultimately, we believe that the system will require an increase in capacity from a rated average daily flow of 240,000 gpd to at least 300,000 gpd, and the peak flows received at the plant will need to be equalized to reduce peak flows sent

@ bluegrasswateruoc.com



into the plant. The improvements should include the addition of equalization and influent pumping facilities (to reduce peak flows conveyed into the plant), conversion from activated sludge to integrated fixed film activated sludge (to reduce the solids loading to the clarifier, to increase the allowable flow rate into the clarifier, and to reduce sludge production), the use of currently unused equalization tank for post-aeration, chlorine contact time, and effluent pumping/post-equalization, and the addition of tertiary filtration. The system may also require the addition of a second stage of clarification; however, the flows into the system are being monitored to see if this will be required.

Because the new operators have successfully turned around the system performance and met limits 5 of the 6 most recent months, we propose to make improvements in phases with the expectation that the first phase of improvements will allow the system to meet effluent limits in the short term. However, the Delaplain area is growing rapidly and the need for a second stage of improvements is anticipated.

The first phase of improvements will include the addition of moving bed biological reactor "cages" to be installed within the existing aeration tanks and for new blowers to supply air to the integral diffusers. It is anticipated that the new cages will allow the mixed liquor concentration to be utilized within the activated sludge system to drop from 4,000-5,000 mg/L down to 2,000-2,500 mg/L. (Future phases of improvements could allow the mixed liquor to be eliminated entirely, and this will be part of the plan). This reduction in biological solids in the system will have a significant benefit on the solids loading rate to the clarifier, it will reduce the depth of the sludge blanket in the clarifier, and it will reduce the overall waste activated sludge solids produced.

Effluent from the clarifier will be diverted into the existing package plant's equalization tank section where chlorine feed will be introduced, the dissolved oxygen level will be raised with post-aeration, and the contents of the equalization tank will be pumped to a new tertiary filtration system in the first phase of improvements. The existing chlorine contact chamber used is much smaller than this equalization tank, so the new system will have significantly more contact time as a result (reducing the required amount of chemical consumption). The use of the equalization tank and variable frequency drive controlled pumping system will also allow the filter to be installed above the flood plain elevation. Overall, this improvement will be useful in the treatment scheme in elevating effluent dissolved oxygen, improving chlorine contact time, and in attenuating the flow sent to downstream processes. When the clarifier experiences hydraulic overloading conditions, the equalization tank and tertiary filter will be able to capture any solids leaving the clarifier system.

The existing system uses chlorine gas to disinfect and sodium bisulfate gas to dechlorinate. The existing chemical feed systems will remain in service. However, the chlorine feed will enter the post-equalization tank, the effluent flow meter will be installed immediately upstream from the new filter, and dechlorination feed point will be relocated to feed the sulfur dioxide solution into the filter vessel, increasing the contact time for dechlorination chemical as well. Finally, the first phase of improvements will also include the addition of an aluminum sulfate feed system to be used to improve filter TSS removal performance (and can also help in meeting any future total phosphorus limits) if or when needed.

The second phase of improvements will include the addition of an equalization tank and an influent pumping system to minimize the peak flows sent to system. Between the first and second phases of construction, the reduction of infiltration and inflow will be targeted.

It is possible that a third phase of improvements to add a second stage clarifier may be required in the future. It is understood that the system area is growing rapidly.



3. Project Milestones

- a. Continue monitoring performance of facility (June 30, 2023)
- b. Submit construction permit application for major modifications (application submitted on February 28, 2022)
- c. Procure equipment (May 15, 2022)
- d. Receive Construction Permit (August 30, 2022)
- e. Complete construction (June 30, 2023)

Sincerely,

LUS

ENRIQUE CHAVEZ JR. Utility Project Manager (314) 380-8043 (314) 437-5714 (314) 736-4743 echavez@cswrgroup.com 1650 Des Peres Rd., Suite 303 Des Peres, MO 63131 centralstateswaterresources.com



DRAWING LEGEND

DESCRIPTION	EXISTING	PROPOSED
Easement		
Setbacks		
Property Lines		
Aerial Electric	AE AE	AE AE
Tree Line	·mmmmmm.	·uuuuuuuu.
Sanitary Manhole	S	S
Utility Pole		 Ф
Fire Hydrant	\$Y	*Y0
Telephone Box	Т	Т
Water Valve	\bowtie	\bowtie
Gas Valve	G	©
Sign		
Grated Inlet		
Catch Basin	0	0
Grated Curb Inlet		
Junction Box	\bigcirc	\bigcirc
Flared End Section		\square

PAVEMENT LEGEND

Existing Asphalt	
Existing Concrete	
New Concrete	
New Standard Duty Asphalt	
New Heavy Duty Asphalt	
New Standard Duty Concrete	
New Heavy Duty Concrete	

FILTER EFFLUENT TO BE TIED INTO EXISTING EFFLUENT (EXACT LOCATION OF EXISTING EFFLUENT TO BE FIELD LOCATED) — — MAS — — MAS — .

APPROXIMATE LOCATION-OF EXISTING EFFLUENT





DESIGN CRITERIA:





TEMPO Agency Interest ID: Graybar DATE RECEIVED COUNTY PROJECT NAME NO. PLANS NO. SPECS TREATMENT PLANT KPDES # ON SANCT LIST	3901 APE20220003 9/29/2022 Scott R and L Carriers Georg 1 1 Delaplain Disposal Co KY0079049 yes		owned	by Bluegra X	ss Water Utilit	ty Operating Co L DATE OF EXEMPT	LC
PLANT CAPACITY CURRENT FLOW ADD PLANT LOAD MGD TYPE APP RECD CHECK RECD CHECK AMOUNT AMOUNT REQUIRED APPLICANT	0.240 0.249 7600 sle yes \$200.00 \$200.00 R & L Investments LL	MGD MGD GPD X X	SLE YES		CONST NO		
APPL. PH # CONSULTANT CONS. PH # OWNER OWNER PH # Utility LETTERS REVIEWER REVIEWER INITIALS REVIEWER PHONE EXT.	937-603-3900 Joe Iovinelli , Manharo 630-925-1110 Bluegrass Water Utility 314-736-4672 yes Cassie Campbell CC 502-782-6909 livision, other users be	y Operat jcox@cs X	ting Co		CC, Josiah C NO	ox Manager HUC MAP	#051002 05 080 W84.550502 N38.270686
houses property service connections other uses: APPROVAL DATE 1st NOD Response	12/1/2022 3/3/2023						
Description: 2nd NOD Response Description: 3rd NOD Response Description 4th NOD Response Description	wetwell info and request exemption						SCOT

This is a computer genera Notes Workshee	ted calculation and should be filed as Ət	NOT FOR PUBLIC INSPECTION ID: APE20220003			
Project Name:	R and L Carriers Georgetown	County:	Scott		
ID Number:	APE20220003	Date:	9/29/2022		
Consultant:	Joe Iovinelli , Manhard Consulting	PE Seal:			
Reviewed By:	Cassie Campbell	Plant Design Capacity:	0.24		
Treatment Plant:	Delaplain Disposal Co	Present Plant Loading:	0.25		
On Sanction List:	yes				

I. SEWERS

Size: (inches)	6 & 8	3
Pipe Materials and Joints:	PVC	PVC
Minimum Slope: (percent)	40	n/a
Maximum Manhole Spacing:	400	n/a
Drop Manhole Required:	no	n/a
Cover: (inches)	ok	ok
Bedding/Backfill/Trench Width:	ok	ok
Aerial Crossings (piers)	no	no
Sewer in Fill Area (compaction)	no	no
Tests:	standard	standard
Water Line Crossings:	yes	yes
Stream Crossings:	no	no
Additional Loading:	7600	7600 GPD
Length:	784	860 force main

COMMENTS:

ArcMap does not show the existing sewer near the site. Right now the sewer populates "Georgetown WWTP #2"s lines on the other side of Cherry Blossom. need details for the wet well of the lift station, and for all pipes to be shown fully in profile views

Plans show that most of the gravity lines are 6 inches, and as long as they are not extended in the future then 6 inch diameter lines can be used.

Profile views show adequate 18 inches (or more) separation between proposed sewer line and existing or proposed water lines

Profile views show adequate cover of 30 inches or more over the gravity lines and force mains

Specifications were copied into the set of plans.

crosses water lines between

plans contain Specifications for:

- x testing forcemain, gravity lines, and manholes (smoke, leakage, vacuum, video)
- x locator tape/ tracer wire
- x manhole connections, joints, frame requirements

Details are provided in the plans for:

- x manholes, lids, frames
- x bedding and backfill laterals/connections and cleanouts
- x grease trap x encasement / crossings
- sewer vacuum/air release valve
- thrust blocking
- x valve vault
- x manhole invert slope

https://echo.epa.gov/trends/loading-tool/reports/dmr-pollutant-loading?year=2022&permit_id=KY007

S

Flow, in co Flow, in conduit or thru treatment plant

	Mon MGD	Mon MGD
Mon Pd End Date:	MO AVG	DAILY MX
11/30/2021	0.2297	0.4925
12/31/2021	0.2485	0.4835
1/31/2022	0.2733	0.5324
2/28/2022	0.3424	0.7337
3/31/2022	0.2419	0.5175
4/30/2022	0.259	0.479
5/31/2022	0.224	0.412
6/30/2022	0.2294	0.4155
7/31/2022	0.252	0.492
8/31/2022	0.236	0.445
9/30/2022	0.2313	0.4459
10/31/2022	0.2164	0.2586
avg	0.248658	0.475633
design	0.24	

There is a CAP in place for modifying the wwtp

The wwtp mod has been approved by WIB

This will address the effluent limit violations but not the flow, unless performance of modified plant allows for shorted treatment time meaning they can pass more water through faster.

<u>9049</u>

ielect Reporting Year: 2022 🗸 🔺

Top Pollutants

Top Pollutants	Top Pollutants by Tox	tic-Weighted Po		
Pollutant Name	Total Pounds (lb/yr)	Max Allowable Load (lb/yr) 🔺	Pollutant Name	Total TWPE (lb-
Solids, total suspended	4,736	19,011	Total Residual Chlorine	
Nitrogen	3,694		Ammonia as N	
BOD, carbonaceous, 05 day, 20 C	2,751	6,337		Download All Dat
Phosphorus	1,004			
Ammonia as N	374	2,102		
Total Residual Chlorine	5.38	11.62		
Dow	nload All Data			

- Indicates value contains loads that are calculated using data that has been flagged as potential outliers or data errors.

Indicates there was one or more exceedances of permit effluent limits for this pollutant sometime during the year. You can hover over over limit value.





| Facility Loading Calculations 🛈

unds (TWPE) (DMR, 2022)

eq/yr)	Max Allowable Load (lb-eq/yr) 🔺
2.69	5.81
0.4155	2.33
ta	

er the yellow flag to see the load

DIAMETER C FACTOR RADIUS PERIMETER AREA flow velocity	120 0.1250 0.7854 0.0491	Feet Feet Square Ft. gpm
starting elevation lowest final elevation difference low to final pump head flow	794 728 736.00 -8.0 37 55	ft ft ft ft ft gpm

	-	rated calculation and sh				County:	NOT FOR PUBLIC INSPECTION Scott	ID: APE202	220003
Project name: ID Number:	:	R and L Carriers APE20220003	Georgeto	wn R	eviewed By:	CC	Date:		
I: PUMP									
Pump Type:		grinder		Time period	24		Population Served 192		
Impeller Si	ze (in)	:		Q in (gpd)	7600		Peak Factor 4.0		
	HP	3		Q in (gpm)	5.28		Peak Flow 21.11 gpm		
	RPM	1750		Q out (gpm) TDH	55 37				
II: FORCE M	MAIN								
Туре		PVC			C-Factor	120	Design Value $C = 120$		
Size		3			Correction I	Factor f _c	= 0.73		
Length		860.00			Velocity In	Force Main	2.50 fps (Minimum = 2.0	fps)	
III: STATIC	HEA	D							
Pump O			865.86	@ Station	0.00		VI: WET WELL		
High Po				@ Station	860.00		Diameter:	5.0 feet	
Dischar	ge Ele	vation:	875.00	@ Station	860.00		Working Depth	0.75 feet	
							Working Volume	14.73 $cf \times 7.48 =$	110.15 gal
High Point	Hs =	18.30					Fill Time = Vol/Q _{in} =	20.9	
Discharge	Hs =	9.14					Pump Out Time = $Vol/(Q_{out} - Q_{in})$	= 2.2	
		_		,			Cycle Time = Fill Time + Pump O		
DIP len	gth(if mi	ixed pipe types)			ted Length =		= 20.9 +	2.2 minutes =	23.1 minutes
IV: DYNAM		EAD		Adjust	ted Length =	860	Recommended Cycle Tir	ne Is Less Than or Equal to 30 Minutes	
Fitting									
	Disch				High	Discharge	С	hecklist	
No.	No.	Fitting		Pipe size	K factor	K factor	Wet well		
1	1	90° @ 0.75		3	0.75	0.75	<u>x</u> D	uplex Pumps	
		90° @ 0.75		3	0.00	0.00		roper Access to Pumps	
		45° @ 0.3		3 3	0.00	$0.00 \\ 0.00$		ent on Pump Station udio/Visual Alarm	
1	1	$22^{1/2} @ 0.12$ TEE @ 1.8		3	0.00 1.80	1.80	-	uick Disconnect Attachment	
1	1	WYE @ 1.8		3	0.00	0.00		torage above alarm in pipes	
1	1	Check Valve @ 2	2.5	3	2.50	2.50		rout in corners	
-		Ball check @ 2.5		3	0.00	0.00	—	ocated in Floodplain	
1	1	Gate Valve @ 0.	19	3	0.19	0.19	Valve Pit		
		Plug valve @ .77		3	0.00	0.00	<u>x</u> Se	eparate Valve Pit	
			Size ratio				_	dequate Valving Arrangement	
1	1	Expansion	1.00	3	0.00	0.00		rain for pit	
1	1	Contraction Exit @ 1.0		3 3	$0.00 \\ 1.00$	0.00 1.00	<u>x</u> Q Force Main	uick connect	
1		LAIL @ 1.0		5	1.00	1.00	i oree main		
	Total	Losses (K)			6.24	6.24	V A	dequate Force Main Velocity	
	Total	Losses (K)			6.24	6.24		dequate Force Main Velocity	
		Losses (K)	sume gradual o	hange. If the chang		6.24	<u>X</u> A	dequate Force Main Velocity ir Release Valve dequate Force Main Cover	

0.04 to 0.5(1-(size ratio)^2)

 X
 1 nrust Blocks

 X
 10' Water Line Separation or concrete incased

This is a computer generated calculation and should be filed as Force Main Calculations

NAMER and L Carriers GeorgetownReviewer:CC

NOT FOR PUBLIC INSPECTION

Date: 9/29/2022

ID: APE20220003

Revision:

DIAMETER	3 Inches	Pump	grinder	
C FACTOR	120	Rpm	1750	
RADIUS	0.1250 Feet	Impeller	0	inches
PERIMETER	0.7854 Feet			
AREA	0.0491 Square Ft.			

Calculations to high spot

baildailait	terne te mgr	0000						
	STATIC	18.30	Feet					
	LENGTH	860	Feet					
	K VALUE	6.24						
PUMP								PUMP
FLOW	Q	VEL	HAZEN	STATIC	K LOSS	PIPE LOSS	TDH	HEAD
(gpm)	(cfs)	(ft/sec)						
0	0.000	0.000	0.000	18.3	0.000	0.000	18.3	45
10	0.022	0.454	0.000	18.3	0.020	0.425	18.7	43
20	0.045	0.908	0.002	18.3	0.080	1.534	19.9	40.5
30	0.067	1.362	0.004	18.3	0.180	3.251	21.7	39
40	0.089	1.816	0.006	18.3	0.319	5.539	24.2	37.5
50	0.111	2.270	0.010	18.3	0.499	8.374	27.2	35
60	0.134	2.724	0.014	18.3	0.719	11.737	30.8	33
70	0.156	3.177	0.018	18.3	0.978	15.616	34.9	31

Calculations to discharge

	STATIC	9.14	Feet					
	LENGTH	860	Feet					
	K VALUE	6.24						
FLOW	Q	VEL	HAZEN	STATIC	K LOSS	PIPE LOSS	TDH	PUMP
(gpm)	(cfs)	(ft/sec)						
0	0.000	0.000	0.000	9.1	0.000	0.000	9.1	45
10	0.022	0.454	0.000	9.1	0.020	0.425	9.6	43
20	0.045	0.908	0.002	9.1	0.080	1.534	10.8	40.5
30	0.067	1.362	0.004	9.1	0.180	3.251	12.6	39
40	0.089	1.816	0.006	9.1	0.319	5.539	15.0	37.5
50	0.111	2.270	0.010	9.1	0.499	8.374	18.0	35
60	0.134	2.724	0.014	9.1	0.719	11.737	21.6	33
70	0.156	3.177	0.018	9.1	0.978	15.616	25.7	31

This is a computer generated calculation and should be filed as Compute storage of pump station above alarm and below first overflow

Alarm Elevation:	867.61 ft.				
Overflow elevation:	867.61 ft.				
Determine the flooded volume Wetwell storage	0 gallons				
Manhole storage =	0 gallons				
Pipe storage=	1129 gallons				
Total storage =	1129 gallons				
Needed volume= (2 hours of Q _{in})	633 gallons				
Storage surplus =	496 gallons				

NOT FOR PUBLIC INS

ID:.

Reviewer: CC

SPECTION APE20210005



PUMP FLC	PUMP HE/TDH	-	TDH	A
0	45	18.3	9.1	
10	43	18.7	9.6	
20	40.5	19.9	10.8	
30	39	21.7	12.6	
40	37.5	24.2	15.0	
50	35	27.2	18.0	
60	33	30.8	21.6	
70	31	34.9	25.7	

APE20220003

This is a computer generated calculation and should be filed as Worksheet for gravity sewers

Reviewed by:

NOT FOR PUBLIC INSPECTION ID: APE20220003

or	gravity	sewers		

Date: 9/29/2022 revised:

total

150.9599 1129.18

Project information	
Project Name	R and L Carriers Georgetown
County	Scott
Project ID	APE20220003
Engineer	Joe lovinelli , Manhard Consulting

Cassie Campbell

Manhole data								nhole Stora			
Segment	Manhole #	Station number	Invert out	Invert in	Drop Manhole diameter	Pipe diameter	Flood	Manhole volume (gallons)	Flood	Pipe volume (gallons)	
Line SMH E Line SMH E Line SMH G Line SMH G Line SMH G Line SMH G	SMH F SMH B liftstation SMH G SMH D SMH C SMH F	298.00 505.00 651.00 0.00 23.00 123.00 167.50	870.67 868.22 867.56 874.59 874.31 872.52 870.09	870.77 868.32 867.66 874.59 874.41 872.62 870.19	4 4 4 4 4 4	8 8 6 6 6					870.72 868.27 867.61 874.36 872.57 870.14
						Sums		0		see below	

Slope and length calculations

Slope an	u length calcul	allons												
Segmen	Downslope end manhole	Upslope end manhole	Slope	Slope (percent)	Minimum Allowable slope (%)	Flag slope	Length (feet)	Maximum Berboninter- IIII 00 manhole Iength	Pipe diameter	Matches Plans?	area (sq ft)	storage (cf)	storage (gallons)	
Line SMH	E SMH F	SMH B	-0.0123	-1.23	0.40		203.0	400	8		0.349066	70.86031	530.0351	
Line SMH	E SMH B	liftstation	-0.0052	-0.52	0.40		142.0	400	8		0.349066	49.56731	370.7635	
Line SMH	G SMH G	SMH D	-0.0122	-1.22	0.40		19.0	400	6		0.196349	3.730638	27.90517	
Line SMH	G SMH D	SMH C	-0.0189	-1.89	0.40		96.0	400	6		0.196349	18.84954	140.9946	
Line SMH	G SMH C	SMH F	-0.0569	-5.69	0.40		40.5	400	6		0.196349	7.95215	59.48208	

500.5

ANDY BESHEAR GOVERNOR



REBECCA W. GOODMAN SECRETARY

ENERGY AND ENVIRONMENT CABINET DEPARTMENT FOR ENVIRONMENTAL PROTECTION

ANTHONY R. HATTON COMMISSIONER

300 Sower Boulevard Frankfort, Kentucky 40601 TELEPHONE: 502-564-2150 TELEFAX: 502-564-4245

September 28, 2022

Jacob Freeman 1650 Des Peres Rd Ste 303 Saint Louis, MO 63131

F

Re: Delaplain WWTF Improvements Scott County, Kentucky Delaplain Disposal Activity ID: 3901, APE20220001 Receiving Treatment Plant KPDES #: KY0079049

Dear Mr. Freeman:

We have reviewed the plans and specifications for the above referenced project. The plan improvements at the WWTP include 3 IFAS Cages (6'x6'x15') with blowers, a building with a 10-Disk Cloth Filter and backwash pump, Alum Feed System, and a Filter Feed Vault. This is to advise that plans and specifications for the above referenced project are APPROVED with respect to sanitary features of design, as of this date with the requirements contained in the attached construction permit.

If we can be of any further assistance or should you wish to discuss this correspondence, please do not hesitate to contact Michael Snyder at 502-782-1235.

Sincerely,

3

Terry Humphries, P.E. Supervisor, Engineering Section Water Infrastructure Branch Division of Water

TH / MS Enclosures

c: Scott County Health Department 21 Design Group Division of Plumbing River Bluffs WWTP Alica Alexander 1650 Des Peres Rd Ste 303

Saint Louis, MO 63131

COMMONWEALTH OF KENTUCKY ENERGY and ENVIRONMENT CABINET DEPARTMENT FOR ENVIRONMENTAL PROTECTION Division of Enforcement

NOTICE OF VIOLATION

To: River Bluffs WWTP Alica Alexander 1650 Des Peres Rd Ste 303

Saint Louis, MO 63131

AI Name: River Bluffs WWTP AI ID: 3367 Activity ID: ENV20210004 County: Oldham Enforcement Case ID: Date(s) Violation(s) Observed: 12/02/2021

This is to advise that you are in violation of the provisions cited below:

1 Violation Description for Subject Item AIOO000003367():

No person shall, directly or indirectly, throw, drain, run or otherwise discharge into any of the waters of the Commonwealth, or cause, permit or suffer to be thrown, drained, run or otherwise discharged into such waters any pollutant, or any substance that shall cause or contribute to the pollution of the waters of the Commonwealth in contravention of the standards adopted by the cabinet or in contravention of any of the rules, regulations, permits, or orders of the cabinet or in contravention of any of this chapter. [KRS 224.70-110]

Description of Non Compliance:

Failing to comply with 401 KAR 5:065, Section 2(1), which cites to 40 CFR 122.41(a), by failing to comply with the terms and conditions of KPDES Permit No. KY0043150, monitoring point 001-1, for Total Ammonia Nitrogen (as N). The permitted limit for Total Ammonia Nitrogen (as N) is concentration monthly avg., less than or equal to 4 mg/L; and concentration daily max., less than or equal to 6 mg/L. The facility reported the following: concentration monthly avg. 6.3 mg/L; and concentration daily max. 6.3 mg/L for August 2021.

The remedial measure(s), and date(s) to be completed by are as follows:

The permittee shall comply with the terms and conditions of the KPDES Permit. [KRS 224.70-110]

AI: River Bluffs WWTP -- 3367

Violations of the above cited statute(s) and/or regulation(s) are subject to a civil penalty per day per violation. Violations carry civil penalties of up to \$25,000 per day per violation depending on the statutes/regulations violated. In addition, violations may be concurrently enjoined. Compliance with remedial measures and their deadlines does not provide exemption from liability for violations during the period of remediation, nor prevent additional remedial measures from being required.

If you have questions or need further information, write or call the undersigned:

Department for Environmental Protection Division of Enforcement 300 Sower Blvd Frankfort, KY 40601 502-782-6859 (8:00 AM - 4:30 PM)

Issued By:

Matalle P. Bruner Natalie P. Bruner, Environmental Control Manager

Date: January 18, 2022
Persimmon Ridge Subd & WWTP Josiah Cox 500 Northwest Plaza Dr Ste 500

Saint Ann, MO 63074

NOTICE OF VIOLATION

To: Persimmon Ridge Subd & WWTP Josiah Cox 500 Northwest Plaza Dr Ste 500

Saint Ann, MO 63074

AI Name: Persimmon Ridge Subd & WWTP AI ID: 3955 Activity ID: ENV20200002 County: Shelby Enforcement Case ID: Date(s) Violation(s) Observed: 05/14/2020

This is to advise that you are in violation of the provisions cited below:

1 Violation Description for Subject Item AIOO000003955():

No person shall, directly or indirectly, throw, drain, run or otherwise discharge into any of the waters of the Commonwealth, or cause, permit or suffer to be thrown, drained, run or otherwise discharged into such waters any pollutant, or any substance that shall cause or contribute to the pollution of the waters of the Commonwealth in contravention of the standards adopted by the cabinet or in contravention of any of the rules, regulations, permits, or orders of the cabinet or in contravention of any of this chapter. [KRS 224.70-110]

Description of Non Compliance:

Failing to comply with 40 CFR 122.41(a), as adopted by 401 KAR 5:065, Section 2(1), by failing to comply with the terms and conditions of KPDES Permit No. KY0090956, monitoring point 002-1, for Total Ammonia Nitrogen (as N). The permitted limit for Total Ammonia Nitrogen (as N) is loading monthly avg., less than or equal to 5.9 lbs/day; and concentration monthly avg., less than or equal to 5 mg/L; and concentration daily max., less than or equal to 7.5 mg/L. The facility reported the following: loading monthly avg. 6.494 lbs/day; and concentration monthly avg. 9.7 mg/L; and concentration daily max. 11.2 mg/L for February 2020.

The remedial measure(s), and date(s) to be completed by are as follows:

The permittee shall comply with the terms and conditions of the KPDES Permit. [KRS 224.70-110]

2 Violation Description for Subject Item AIOO000003955():

No person shall, directly or indirectly, throw, drain, run or otherwise discharge into any of the waters of the Commonwealth, or cause, permit or suffer to be thrown, drained, run or otherwise discharged into such waters any pollutant, or any substance that shall cause or contribute to the pollution of the waters of the Commonwealth in contravention of the standards adopted by the cabinet or in contravention of any of the rules, regulations, permits, or orders of the cabinet or in contravention of any of this chapter. [KRS 224.70-110]

Description of Non Compliance:

Failing to comply with 40 CFR 122.41(a), as adopted by 401 KAR 5:065, Section 2(1), by failing to comply with the terms and conditions of KPDES Permit No. KY0090956, monitoring point 002-1, for Total Ammonia Nitrogen (as N). The permitted limit for Total Ammonia Nitrogen (as N) is loading monthly avg., less than or equal to 5.9 lbs/day; and loading max. weekly avg., less than or equal to 8.9 lbs/day; and concentration monthly avg., less than or equal to 5 mg/L; and concentration daily max., less than or equal to 7.5 mg/L. The facility reported the following: loading monthly avg. 9.477 lbs/day; and loading max. weekly avg. 11.04 lbs/day; and concentration monthly avg. 11.5 mg/L; and concentration daily max. 13.4 mg/L for March 2020.

The remedial measure(s), and date(s) to be completed by are as follows: The permittee shall comply with the terms and conditions of the KPDES Permit. [KRS 224.70-110]

If you have questions or need further information, write or call the undersigned:

Department for Environmental Protection Division of Enforcement 300 Sower Blvd Frankfort, KY 40601 502-782-6859 (8:00 AM – 4:30 PM)

Michael B. Kroeger, Assistant Director Date: May 27, 2020

River Bluffs WWTP Alica Alexander 1650 Des Peres Rd Ste 303

NOTICE OF VIOLATION

To: River Bluffs WWTP Alica Alexander 1650 Des Peres Rd Ste 303

Saint Louis, MO 63131

AI Name: River Bluffs WWTP AI ID: 3367 Activity ID: ENV20210003 County: Oldham Enforcement Case ID: Date(s) Violation(s) Observed: 09/01/2021

This is to advise that you are in violation of the provisions cited below:

1 Violation Description for Subject Item AIOO000003367():

No person shall, directly or indirectly, throw, drain, run or otherwise discharge into any of the waters of the Commonwealth, or cause, permit or suffer to be thrown, drained, run or otherwise discharged into such waters any pollutant, or any substance that shall cause or contribute to the pollution of the waters of the Commonwealth in contravention of the standards adopted by the cabinet or in contravention of any of the rules, regulations, permits, or orders of the cabinet or in contravention of any of this chapter. [KRS 224.70-110]

Description of Non Compliance:

Failing to comply with 401 KAR 5:065, Section 2(1), which cites to 40 CFR 122.41(a), by failing to comply with the terms and conditions of KPDES Permit No. KY0043150, monitoring point 001-1, for Total Ammonia Nitrogen (as N). The permitted limit for Total Ammonia Nitrogen (as N) is concentration monthly avg., less than or equal to 4 mg/L; and concentration daily max., less than or equal to 6 mg/L. The facility reported the following: concentration monthly avg. 6.6 mg/L; and concentration daily max. 6.6 mg/L for June 2021.

The remedial measure(s), and date(s) to be completed by are as follows:

The permittee shall comply with the terms and conditions of the KPDES Permit. [KRS 224.70-110]

2 Violation Description for Subject Item AIOO000003367():

No person shall, directly or indirectly, throw, drain, run or otherwise discharge into any of the waters of the Commonwealth, or cause, permit or suffer to be thrown, drained, run or otherwise discharged into such waters any pollutant, or any substance that shall cause or contribute to the pollution of the waters of the Commonwealth in contravention of the standards adopted by the cabinet or in contravention of any of the rules, regulations, permits, or orders of the cabinet or in contravention of any of this chapter. [KRS 224.70-110]

Description of Non Compliance:

Failing to comply with 401 KAR 5:065, Section 2(1), which cites to 40 CFR 122.41(a), by failing to comply with the terms and conditions of KPDES Permit No. KY0043150, monitoring point 001-1, for Total Suspended Solids. The permitted limit for Total Suspended Solids is concentration monthly avg., less than or equal to 30 mg/L. The facility reported the following: concentration monthly avg. 41 mg/L for May 2021.

The remedial measure(s), and date(s) to be completed by are as follows:

If you have questions or need further information, write or call the undersigned:

Department for Environmental Protection Division of Enforcement 300 Sower Blvd Frankfort, KY 40601 502-782-6859 (8:00 AM – 4:30 PM)

Michael B. Kroeger, Assistant Director Date: September 22, 2021

Persimmon Ridge Subd & WWTP Alica Alexander 1650 Des Peres Rd Ste 303

NOTICE OF VIOLATION

To: Persimmon Ridge Subd & WWTP Alica Alexander 1650 Des Peres Rd Ste 303

Saint Louis, MO 63131

AI Name: Persimmon Ridge Subd & WWTP AI ID: 3955 Activity ID: ENV20210002 County: Shelby Enforcement Case ID: Date(s) Violation(s) Observed: 09/01/2021

This is to advise that you are in violation of the provisions cited below:

1 Violation Description for Subject Item AIOO000003955():

No person shall, directly or indirectly, throw, drain, run or otherwise discharge into any of the waters of the Commonwealth, or cause, permit or suffer to be thrown, drained, run or otherwise discharged into such waters any pollutant, or any substance that shall cause or contribute to the pollution of the waters of the Commonwealth in contravention of the standards adopted by the cabinet or in contravention of any of the rules, regulations, permits, or orders of the cabinet or in contravention of any of this chapter. [KRS 224.70-110]

Description of Non Compliance:

Failing to comply with 401 KAR 5:065, Section 2(1), which cites to 40 CFR 122.41(a), by failing to comply with the terms and conditions of KPDES Permit No. KY0090956, monitoring point 002-1, for Total Ammonia Nitrogen (as N). The permitted limit for Total Ammonia Nitrogen (as N) is loading monthly avg., less than or equal to 2.4 lbs/day; and loading max. weekly avg., less than or equal to 3.6 lbs/day; and concentration monthly avg., less than or equal to 2 mg/L; and concentration daily max., less than or equal to 3 mg/L. The facility reported the following: loading monthly avg. 4.597 lbs/day; and loading max. weekly avg. 7.367 lbs/day; and concentration monthly avg. 7.6 mg/L; and concentration daily max. 12.1 mg/L for June 2021.

The remedial measure(s), and date(s) to be completed by are as follows:

The permittee shall comply with the terms and conditions of the KPDES Permit. [KRS 224.70-110]

2 Violation Description for Subject Item AIOO000003955():

No person shall, directly or indirectly, throw, drain, run or otherwise discharge into any of the waters of the Commonwealth, or cause, permit or suffer to be thrown, drained, run or otherwise discharged into such waters any pollutant, or any substance that shall cause or contribute to the pollution of the waters of the Commonwealth in contravention of the standards adopted by the cabinet or in contravention of any of the rules, regulations, permits, or orders of the cabinet or in contravention of any of this chapter. [KRS 224.70-110]

Description of Non Compliance:

Failing to comply with 401 KAR 5:065, Section 2(1), which cites to 40 CFR 122.41(a), by failing to comply with the terms and conditions of KPDES Permit No. KY0090956, monitoring point 002-1, for Total Ammonia Nitrogen (as N). The permitted limit for Total Ammonia Nitrogen (as N) is loading monthly avg., less than or equal to 2.4 lbs/day; and loading max. weekly avg., less than or equal to 3.6 lbs/day; and concentration monthly avg., less than or equal to 2 mg/L; and concentration daily max., less than or equal to 3 mg/L. The facility reported the following: loading monthly avg. 8.852 lbs/day; and loading max. weekly avg. 9.056 lbs/day; and concentration monthly avg. 17.4 mg/L; and concentration daily max. 17.8 mg/L for May 2021.

The remedial measure(s), and date(s) to be completed by are as follows:

The permittee shall comply with the terms and conditions of the KPDES Permit. [KRS 224.70-110]

3 Violation Description for Subject Item AIOO000003955():

No person shall, directly or indirectly, throw, drain, run or otherwise discharge into any of the waters of the Commonwealth, or cause, permit or suffer to be thrown, drained, run or otherwise discharged into such waters any pollutant, or any substance that shall cause or contribute to the pollution of the waters of the Commonwealth in contravention of the standards adopted by the cabinet or in contravention of any of the rules, regulations, permits, or orders of the cabinet or in contravention of any of this chapter. [KRS 224.70-110]

Description of Non Compliance:

Failing to comply with 401 KAR 5:065, Section 2(1), which cites to 40 CFR 122.41(a), by failing to comply with the terms and conditions of KPDES Permit No. KY0090956, monitoring point 002-1, for Total Ammonia Nitrogen (as N). The permitted limit for Total Ammonia Nitrogen (as N) is loading monthly avg., less than or equal to 5.9 lbs/day; and concentration monthly avg., less than or equal to 5 mg/L; and concentration daily max., less than or equal to 7.5 mg/L. The facility reported the following: loading monthly avg. 6.172 lbs/day; and concentration monthly avg. 14.8 mg/L; and concentration daily max. 17.6 mg/L for April 2021.

The remedial measure(s), and date(s) to be completed by are as follows:

If you have questions or need further information, write or call the undersigned:

Department for Environmental Protection Division of Enforcement 300 Sower Blvd Frankfort, KY 40601 502-782-6859 (8:00 AM – 4:30 PM)

Michael B. Kroeger, Assistant Director Date: September 24, 2021

Bluegrass Water Utility Operating Company LLC River Bluffs WWTP 1650 Des Peres Rd Ste 303

NOTICE OF VIOLATION

To: Bluegrass Water Utility Operating Company LLC River Bluffs WWTP 1650 Des Peres Rd Ste 303

Saint Louis, MO 63131

AI Name: River Bluffs WWTP AI ID: 3367 Activity ID: ENV20200002 County: Oldham Enforcement Case ID: Date(s) Violation(s) Observed: 11/10/2020

This is to advise that you are in violation of the provisions cited below:

1 Violation Description for Subject Item AIOO000003367():

No person shall, directly or indirectly, throw, drain, run or otherwise discharge into any of the waters of the Commonwealth, or cause, permit or suffer to be thrown, drained, run or otherwise discharged into such waters any pollutant, or any substance that shall cause or contribute to the pollution of the waters of the Commonwealth in contravention of the standards adopted by the cabinet or in contravention of any of the rules, regulations, permits, or orders of the cabinet or in contravention of any of this chapter. [KRS 224.70-110]

Description of Non Compliance:

Failing to comply with 40 CFR 122.41(a), as adopted by 401 KAR 5:065, Section 2(1), by failing to comply with the terms and conditions of KPDES Permit No. KY0043150, monitoring point 001-1, for Total Ammonia Nitrogen (as N). The permitted limit for Total Ammonia Nitrogen (as N) is concentration monthly avg., less than or equal to 4 mg/L; and concentration daily max., less than or equal to 6 mg/L. The facility reported the following: concentration monthly avg. 22.7 mg/L; and concentration daily max. 22.7 mg/L for September 2020.

The remedial measure(s), and date(s) to be completed by are as follows:

The permittee shall comply with the terms and conditions of the KPDES Permit. [KRS 224.70-110]

2 Violation Description for Subject Item AIOO000003367():

No person shall, directly or indirectly, throw, drain, run or otherwise discharge into any of the waters of the Commonwealth, or cause, permit or suffer to be thrown, drained, run or otherwise discharged into such waters any pollutant, or any substance that shall cause or contribute to the pollution of the waters of the Commonwealth in contravention of the standards adopted by the cabinet or in contravention of any of the rules, regulations, permits, or orders of the cabinet or in contravention of any of this chapter. [KRS 224.70-110]

Description of Non Compliance:

Failing to comply with 40 CFR 122.41(a), as adopted by 401 KAR 5:065, Section 2(1), by failing to comply with the terms and conditions of KPDES Permit No. KY0043150, monitoring point 001-1, for E. Coli. The permitted limit for E. Coli is concentration 30-day geometric avg., less than or equal to 130 MPN/100 mL. The facility reported the following: concentration 30-day geometric avg. 206 MPN/100 mL for September 2020.

The remedial measure(s), and date(s) to be completed by are as follows:

If you have questions or need further information, write or call the undersigned:

Department for Environmental Protection Division of Enforcement 300 Sower Blvd Frankfort, KY 40601 502-782-6859 (8:00 AM – 4:30 PM)

Michael B. Kroeger, Assistant Director Date: January 7, 2021

River Bluffs WWTP Betsy C Helm 5501 W KY 524

Westport, KY 40077

NOTICE OF VIOLATION

To: River Bluffs WWTP Betsy C Helm 5501 W KY 524

Westport, KY 40077

AI Name: River Bluffs WWTP AI ID: 3367 Activity ID: ENV20200002 County: Oldham Enforcement Case ID: Date(s) Violation(s) Observed: 11/10/2020

This is to advise that you are in violation of the provisions cited below:

1 Violation Description for Subject Item AIOO000003367():

No person shall, directly or indirectly, throw, drain, run or otherwise discharge into any of the waters of the Commonwealth, or cause, permit or suffer to be thrown, drained, run or otherwise discharged into such waters any pollutant, or any substance that shall cause or contribute to the pollution of the waters of the Commonwealth in contravention of the standards adopted by the cabinet or in contravention of any of the rules, regulations, permits, or orders of the cabinet or in contravention of any of this chapter. [KRS 224.70-110]

Description of Non Compliance:

Failing to comply with 40 CFR 122.41(a), as adopted by 401 KAR 5:065, Section 2(1), by failing to comply with the terms and conditions of KPDES Permit No. KY0043150, monitoring point 001-1, for Total Ammonia Nitrogen (as N). The permitted limit for Total Ammonia Nitrogen (as N) is concentration monthly avg., less than or equal to 4 mg/L; and concentration daily max., less than or equal to 6 mg/L. The facility reported the following: concentration monthly avg. 22.7 mg/L; and concentration daily max. 22.7 mg/L for September 2020.

The remedial measure(s), and date(s) to be completed by are as follows:

The permittee shall comply with the terms and conditions of the KPDES Permit. [KRS 224.70-110]

2 Violation Description for Subject Item AIOO000003367():

No person shall, directly or indirectly, throw, drain, run or otherwise discharge into any of the waters of the Commonwealth, or cause, permit or suffer to be thrown, drained, run or otherwise discharged into such waters any pollutant, or any substance that shall cause or contribute to the pollution of the waters of the Commonwealth in contravention of the standards adopted by the cabinet or in contravention of any of the rules, regulations, permits, or orders of the cabinet or in contravention of any of this chapter. [KRS 224.70-110]

Description of Non Compliance:

Failing to comply with 40 CFR 122.41(a), as adopted by 401 KAR 5:065, Section 2(1), by failing to comply with the terms and conditions of KPDES Permit No. KY0043150, monitoring point 001-1, for E. Coli. The permitted limit for E. Coli is concentration 30-day geometric avg., less than or equal to 130 MPN/100 mL. The facility reported the following: concentration 30-day geometric avg. 206 MPN/100 mL for September 2020.

The remedial measure(s), and date(s) to be completed by are as follows:

If you have questions or need further information, write or call the undersigned:

Department for Environmental Protection Division of Enforcement 300 Sower Blvd Frankfort, KY 40601 502-782-6859 (8:00 AM – 4:30 PM)

Michael B. Kroeger, Assistant Director Date: December 15, 2020

River Bluffs WWTP Mandy Sappington 1630 Des Peres Rd Ste 140

NOTICE OF VIOLATION

To: River Bluffs WWTP Mandy Sappington 1630 Des Peres Rd Ste 140

Saint Louis, MO 631311871

AI Name: River Bluffs WWTP AI ID: 3367 Activity ID: ENV20230001 County: Oldham Enforcement Case ID: Date(s) Violation(s) Observed: 02/16/2023

This is to advise that you are in violation of the provisions cited below:

1 Violation Description for Subject Item AIOO000003367():

No person shall, directly or indirectly, throw, drain, run or otherwise discharge into any of the waters of the Commonwealth, or cause, permit or suffer to be thrown, drained, run or otherwise discharged into such waters any pollutant, or any substance that shall cause or contribute to the pollution of the waters of the Commonwealth in contravention of the standards adopted by the cabinet or in contravention of any of the rules, regulations, permits, or orders of the cabinet or in contravention of any of this chapter. [KRS 224.70-110]

Description of Non Compliance:

Failing to comply with 401 KAR 5:065, Section 2(1), which cites to 40 CFR 122.41(a), by failing to comply with the terms and conditions of KPDES Permit No. KY0043150, monitoring point 001-1, for Total Ammonia Nitrogen (as N). The permitted limit for Total Ammonia Nitrogen (as N) is concentration monthly avg., less than or equal to 4 mg/L; and concentration daily max., less than or equal to 6 mg/L. The facility reported the following: concentration monthly avg. 13.2 mg/L; and concentration daily max. 13.2 mg/L for October 2022.

The remedial measure(s), and date(s) to be completed by are as follows:

The permittee shall comply with the terms and conditions of the KPDES Permit. [KRS 224.70-110]

2 Violation Description for Subject Item AIOO000003367():

No person shall, directly or indirectly, throw, drain, run or otherwise discharge into any of the waters of the Commonwealth, or cause, permit or suffer to be thrown, drained, run or otherwise discharged into such waters any pollutant, or any substance that shall cause or contribute to the pollution of the waters of the Commonwealth in contravention of the standards adopted by the cabinet or in contravention of any of the rules, regulations, permits, or orders of the cabinet or in contravention of any of this chapter. [KRS 224.70-110]

Description of Non Compliance:

Failing to comply with 401 KAR 5:065, Section 2(1), which cites to 40 CFR 122.41(a), by failing to comply with the terms and conditions of KPDES Permit No. KY0043150, monitoring point 001-1, for Total Residual Chlorine. The permitted limit for Total Residual Chlorine is concentration monthly avg., less than or equal to .011 mg/L; and concentration daily max., less than or equal to .019 mg/L. The facility reported the following: concentration monthly avg. .03 mg/L; and concentration daily max. .03 mg/L for November 2022.

The remedial measure(s), and date(s) to be completed by are as follows:

3 Violation Description for Subject Item AIOO000003367():

No person shall, directly or indirectly, throw, drain, run or otherwise discharge into any of the waters of the Commonwealth, or cause, permit or suffer to be thrown, drained, run or otherwise discharged into such waters any pollutant, or any substance that shall cause or contribute to the pollution of the waters of the Commonwealth in contravention of the standards adopted by the cabinet or in contravention of any of the rules, regulations, permits, or orders of the cabinet or in contravention of any of this chapter. [KRS 224.70-110]

Description of Non Compliance:

Failing to comply with 401 KAR 5:065, Section 2(1), which cites to 40 CFR 122.41(a), by failing to comply with the terms and conditions of KPDES Permit No. KY0043150, monitoring point 001-1, for Total Residual Chlorine. The permitted limit for Total Residual Chlorine is concentration monthly avg., less than or equal to .011 mg/L; and concentration daily max., less than or equal to .019 mg/L. The facility reported the following: concentration monthly avg. 2.2 mg/L; and concentration daily max. 2.2 mg/L for October 2022.

The remedial measure(s), and date(s) to be completed by are as follows:

The permittee shall comply with the terms and conditions of the KPDES Permit. [KRS 224.70-110]

4 Violation Description for Subject Item AIOO000003367():

No person shall, directly or indirectly, throw, drain, run or otherwise discharge into any of the waters of the Commonwealth, or cause, permit or suffer to be thrown, drained, run or otherwise discharged into such waters any pollutant, or any substance that shall cause or contribute to the pollution of the waters of the Commonwealth in contravention of the standards adopted by the cabinet or in contravention of any of the rules, regulations, permits, or orders of the cabinet or in contravention of any of this chapter. [KRS 224.70-110]

Description of Non Compliance:

Failing to comply with 401 KAR 5:065, Section 2(1), which cites to 40 CFR 122.41(a), by failing to comply with the terms and conditions of KPDES Permit No. KY0043150, monitoring point 001-1, for Total Suspended Solids. The permitted limit for Total Suspended Solids is concentration monthly avg., less than or equal to 30 mg/L; and concentration max. weekly avg., less than or equal to 45 mg/L. The facility reported the following: concentration monthly avg. 66 mg/L; and concentration max. weekly avg. 66 mg/L; and concentration max.

The remedial measure(s), and date(s) to be completed by are as follows:

The permittee shall comply with the terms and conditions of the KPDES Permit. [KRS 224.70-110]

5 Violation Description for Subject Item AIOO000003367():

No person shall, directly or indirectly, throw, drain, run or otherwise discharge into any of the waters of the Commonwealth, or cause, permit or suffer to be thrown, drained, run or otherwise discharged into such waters any pollutant, or any substance that shall cause or contribute to the pollution of the waters of the Commonwealth in contravention of the standards adopted by the cabinet or in contravention of any of the rules, regulations, permits, or orders of the cabinet or in contravention of any of this chapter. [KRS 224.70-110]

Description of Non Compliance:

Failing to comply with 401 KAR 5:065, Section 2(1), which cites to 40 CFR 122.41(a), by failing to comply with the terms and conditions of KPDES Permit No. KY0043150, monitoring point 001-1, for Dissolved Oxygen. The permitted limit for Dissolved Oxygen is concentration instantaneous min., greater than or equal to 7 mg/L. The facility reported the following: concentration instantaneous min. 4.9 mg/L for November 2022.

The remedial measure(s), and date(s) to be completed by are as follows:

If you have questions or need further information, write or call the undersigned:

Department for Environmental Protection Division of Enforcement 300 Sower Blvd Frankfort, KY 40601 502-782-6859 (8:00 AM – 4:30 PM)

Issued By:

Marton A. Bascombe

Marlon Bascombe, Environmental Control Manager Date: March 16, 2023 Persimmon Ridge Subd & WWTP Mandy Sappington 1630 Des Peres Rd Ste 140

NOTICE OF VIOLATION

To: Persimmon Ridge Subd & WWTP Mandy Sappington 1630 Des Peres Rd Ste 140

Saint Louis, MO 631311871

AI Name: Persimmon Ridge Subd & WWTP AI ID: 3955 Activity ID: ENV20230001 County: Shelby Enforcement Case ID: Date(s) Violation(s) Observed: 02/16/2023

This is to advise that you are in violation of the provisions cited below:

1 Violation Description for Subject Item AIOO000003955():

No person shall, directly or indirectly, throw, drain, run or otherwise discharge into any of the waters of the Commonwealth, or cause, permit or suffer to be thrown, drained, run or otherwise discharged into such waters any pollutant, or any substance that shall cause or contribute to the pollution of the waters of the Commonwealth in contravention of the standards adopted by the cabinet or in contravention of any of the rules, regulations, permits, or orders of the cabinet or in contravention of any of this chapter. [KRS 224.70-110]

Description of Non Compliance:

Failing to comply with 401 KAR 5:065, Section 2(1), which cites to 40 CFR 122.41(a), by failing to comply with the terms and conditions of KPDES Permit No. KY0090956, monitoring point 002-1, for Total Ammonia Nitrogen (as N). The permitted limit for Total Ammonia Nitrogen (as N) is loading monthly avg., less than or equal to 5.9 lbs/day; and loading max. weekly avg., less than or equal to 8.9 lbs/day; and concentration monthly avg., less than or equal to 5 mg/L; and concentration daily max., less than or equal to 7.5 mg/L. The facility reported the following: loading monthly avg. 8.118 lbs/day; and loading max. weekly avg. 12.8 lbs/day; and concentration monthly avg. 7.546 mg/L; and concentration daily max. 11.9 mg/L for December 2022.

The remedial measure(s), and date(s) to be completed by are as follows:

If you have questions or need further information, write or call the undersigned:

Department for Environmental Protection Division of Enforcement 300 Sower Blvd Frankfort, KY 40601 502-782-6859 (8:00 AM – 4:30 PM)

Issued By:

Marton A. Bascombe

Marlon Bascombe, Environmental Control Manager Date: March 21, 2023 River Bluffs WWTP Alica Alexander 1650 Des Peres Rd Ste 303
NOTICE OF VIOLATION

To: River Bluffs WWTP Alica Alexander 1650 Des Peres Rd Ste 303

Saint Louis, MO 63131

AI Name: River Bluffs WWTP AI ID: 3367 Activity ID: ENV20210001 County: Oldham Enforcement Case ID: Date(s) Violation(s) Observed: 02/19/2021

This is to advise that you are in violation of the provisions cited below:

1 Violation Description for Subject Item AIOO000003367():

No person shall, directly or indirectly, throw, drain, run or otherwise discharge into any of the waters of the Commonwealth, or cause, permit or suffer to be thrown, drained, run or otherwise discharged into such waters any pollutant, or any substance that shall cause or contribute to the pollution of the waters of the Commonwealth in contravention of the standards adopted by the cabinet or in contravention of any of the rules, regulations, permits, or orders of the cabinet or in contravention of any of this chapter. [KRS 224.70-110]

Description of Non Compliance:

Failing to comply with 40 CFR 122.41(a), as adopted by 401 KAR 5:065, Section 2(1), by failing to comply with the terms and conditions of KPDES Permit No. KY0043150, monitoring point 001-1, for Total Ammonia Nitrogen (as N). The permitted limit for Total Ammonia Nitrogen (as N) is concentration monthly avg., less than or equal to 4 mg/L; and concentration daily max., less than or equal to 6 mg/L. The facility reported the following: concentration monthly avg. 8 mg/L; and concentration daily max. 8 mg/L for October 2020.

The remedial measure(s), and date(s) to be completed by are as follows:

Violations of the above cited statute(s) and/or regulation(s) are subject to a civil penalty per day per violation. Violations carry civil penalties of up to \$25,000 per day per violation depending on the statutes/regulations violated. In addition, violations may be concurrently enjoined. Compliance with remedial measures and their deadlines does not provide exemption from liability for violations during the period of remediation, nor prevent additional remedial measures from being required.

If you have questions or need further information, write or call the undersigned:

Department for Environmental Protection Division of Enforcement 300 Sower Blvd Frankfort, KY 40601 502-782-6859 (8:00 AM – 4:30 PM)

Issued By:

Michael B. Kroeger, Assistant Director Date: April 7, 2021

River Bluffs WWTP Alica Alexander 1650 Des Peres Rd Ste 303

NOTICE OF VIOLATION

To: River Bluffs WWTP Alica Alexander 1650 Des Peres Rd Ste 303

Saint Louis, MO 63131

AI Name: River Bluffs WWTP AI ID: 3367 Activity ID: ENV20210001 County: Oldham Enforcement Case ID: Date(s) Violation(s) Observed: 02/19/2021

This is to advise that you are in violation of the provisions cited below:

1 Violation Description for Subject Item AIOO000003367():

No person shall, directly or indirectly, throw, drain, run or otherwise discharge into any of the waters of the Commonwealth, or cause, permit or suffer to be thrown, drained, run or otherwise discharged into such waters any pollutant, or any substance that shall cause or contribute to the pollution of the waters of the Commonwealth in contravention of the standards adopted by the cabinet or in contravention of any of the rules, regulations, permits, or orders of the cabinet or in contravention of any of this chapter. [KRS 224.70-110]

Description of Non Compliance:

Failing to comply with 40 CFR 122.41(a), as adopted by 401 KAR 5:065, Section 2(1), by failing to comply with the terms and conditions of KPDES Permit No. KY0043150, monitoring point 001-1, for Total Ammonia Nitrogen (as N). The permitted limit for Total Ammonia Nitrogen (as N) is concentration monthly avg., less than or equal to 4 mg/L; and concentration daily max., less than or equal to 6 mg/L. The facility reported the following: concentration monthly avg. 8 mg/L; and concentration daily max. 8 mg/L for October 2020.

The remedial measure(s), and date(s) to be completed by are as follows:

Violations of the above cited statute(s) and/or regulation(s) are subject to a civil penalty per day per violation. Violations carry civil penalties of up to \$25,000 per day per violation depending on the statutes/regulations violated. In addition, violations may be concurrently enjoined. Compliance with remedial measures and their deadlines does not provide exemption from liability for violations during the period of remediation, nor prevent additional remedial measures from being required.

If you have questions or need further information, write or call the undersigned:

Department for Environmental Protection Division of Enforcement 300 Sower Blvd Frankfort, KY 40601 502-782-6859 (8:00 AM – 4:30 PM)

Issued By:

Michael B. Kroeger, Assistant Director Date: April 7, 2021

River Bluffs WWTP Alica Alexander 1650 Des Peres Rd Ste 303

NOTICE OF VIOLATION

To: River Bluffs WWTP Alica Alexander 1650 Des Peres Rd Ste 303

Saint Louis, MO 63131

AI Name: River Bluffs WWTP AI ID: 3367 Activity ID: ENV20220002 County: Oldham Enforcement Case ID: Date(s) Violation(s) Observed: 05/09/2022

This is to advise that you are in violation of the provisions cited below:

1 Violation Description for Subject Item AIOO000003367():

No person shall, directly or indirectly, throw, drain, run or otherwise discharge into any of the waters of the Commonwealth, or cause, permit or suffer to be thrown, drained, run or otherwise discharged into such waters any pollutant, or any substance that shall cause or contribute to the pollution of the waters of the Commonwealth in contravention of the standards adopted by the cabinet or in contravention of any of the rules, regulations, permits, or orders of the cabinet or in contravention of any of this chapter. [KRS 224.70-110]

Description of Non Compliance:

Failing to comply with 401 KAR 5:065, Section 2(1), which cites to 40 CFR 122.41(a), by failing to comply with the terms and conditions of KPDES Permit No. KY0043150, monitoring point 001-1, for E. Coli. The permitted limit for E. Coli is concentration 30-day geometric avg., less than or equal to 130 MPN/100 mL; and concentration 7-day geometric, less than or equal to 240 MPN/100 mL. The facility reported the following: concentration 30-day geometric avg. 1414 MPN/100 mL; and concentration 7-day geometric 1414 MPN/100 mL for February 2022.

The remedial measure(s), and date(s) to be completed by are as follows:

The permittee shall comply with the terms and conditions of the KPDES Permit. [KRS 224.70-110]

2 Violation Description for Subject Item AIOO000003367():

No person shall, directly or indirectly, throw, drain, run or otherwise discharge into any of the waters of the Commonwealth, or cause, permit or suffer to be thrown, drained, run or otherwise discharged into such waters any pollutant, or any substance that shall cause or contribute to the pollution of the waters of the Commonwealth in contravention of the standards adopted by the cabinet or in contravention of any of the rules, regulations, permits, or orders of the cabinet or in contravention of any of this chapter. [KRS 224.70-110]

Description of Non Compliance:

Failing to comply with 401 KAR 5:065, Section 2(1), which cites to 40 CFR 122.41(a), by failing to comply with the terms and conditions of KPDES Permit No. KY0043150, monitoring point 001-1, for E. Coli. The permitted limit for E. Coli is concentration 30-day geometric avg., less than or equal to 130 MPN/100 mL; and concentration 7-day geometric, less than or equal to 240 MPN/100 mL. The facility reported the following: concentration 30-day geometric avg. 2420 MPN/100 mL; and concentration 7-day geometric 2420 MPN/100 mL for January 2022.

The remedial measure(s), and date(s) to be completed by are as follows:

Violations of the above cited statute(s) and/or regulation(s) are subject to a civil penalty per day per violation. Violations carry civil penalties of up to \$25,000 per day per violation depending on the statutes/regulations violated. In addition, violations may be concurrently enjoined. Compliance with remedial measures and their deadlines does not provide exemption from liability for violations during the period of remediation, nor prevent additional remedial measures from being required.

If you have questions or need further information, write or call the undersigned:

Department for Environmental Protection Division of Enforcement 300 Sower Blvd Frankfort, KY 40601 502-782-6859 (8:00 AM - 4:30 PM)

Issued By:

Matalle P. Bruner Natalie P. Bruner, Director

Date: June 13, 2022

River Bluffs WWTP Alica Alexander 1650 Des Peres Rd Ste 303

NOTICE OF VIOLATION

To: River Bluffs WWTP Alica Alexander 1650 Des Peres Rd Ste 303

Saint Louis, MO 63131

AI Name: River Bluffs WWTP AI ID: 3367 Activity ID: ENV20210002 County: Oldham Enforcement Case ID: Date(s) Violation(s) Observed: 05/10/2021

This is to advise that you are in violation of the provisions cited below:

1 Violation Description for Subject Item AIOO000003367():

No person shall, directly or indirectly, throw, drain, run or otherwise discharge into any of the waters of the Commonwealth, or cause, permit or suffer to be thrown, drained, run or otherwise discharged into such waters any pollutant, or any substance that shall cause or contribute to the pollution of the waters of the Commonwealth in contravention of the standards adopted by the cabinet or in contravention of any of the rules, regulations, permits, or orders of the cabinet or in contravention of any of this chapter. [KRS 224.70-110]

Description of Non Compliance:

Failing to comply with 40 CFR 122.41(a), as adopted by 401 KAR 5:065, Section 2(1), by failing to comply with the terms and conditions of KPDES Permit No. KY0043150, monitoring point 001-1, for E. Coli. The permitted limit for E. Coli is concentration 30-day geometric avg., less than or equal to 130 MPN/100 mL; and concentration 7-day geometric, less than or equal to 240 MPN/100 mL. The facility reported the following: concentration 30-day geometric avg. 715 MPN/100 mL; and concentration 7-day geometric 715 MPN/100 mL for February 2021.

The remedial measure(s), and date(s) to be completed by are as follows:

The permittee shall comply with the terms and conditions of the KPDES Permit. [KRS 224.70-110]

2 Violation Description for Subject Item AIOO000003367():

No person shall, directly or indirectly, throw, drain, run or otherwise discharge into any of the waters of the Commonwealth, or cause, permit or suffer to be thrown, drained, run or otherwise discharged into such waters any pollutant, or any substance that shall cause or contribute to the pollution of the waters of the Commonwealth in contravention of the standards adopted by the cabinet or in contravention of any of the rules, regulations, permits, or orders of the cabinet or in contravention of any of this chapter. [KRS 224.70-110]

Description of Non Compliance:

Failing to comply with 40 CFR 122.41(a), as adopted by 401 KAR 5:065, Section 2(1), by failing to comply with the terms and conditions of KPDES Permit No. KY0043150, monitoring point 001-1, for E. Coli. The permitted limit for E. Coli is concentration 30-day geometric avg., less than or equal to 130 MPN/100 mL; and concentration 7-day geometric, less than or equal to 240 MPN/100 mL. The facility reported the following: concentration 30-day geometric avg. 5579 MPN/100 mL; and concentration 7-day geometric 5579 MPN/100 mL for March 2021.

The remedial measure(s), and date(s) to be completed by are as follows:

Violations of the above cited statute(s) and/or regulation(s) are subject to a civil penalty per day per violation. Violations carry civil penalties of up to \$25,000 per day per violation depending on the statutes/regulations violated. In addition, violations may be concurrently enjoined. Compliance with remedial measures and their deadlines does not provide exemption from liability for violations during the period of remediation, nor prevent additional remedial measures from being required.

If you have questions or need further information, write or call the undersigned:

Department for Environmental Protection Division of Enforcement 300 Sower Blvd Frankfort, KY 40601 502-782-6859 (8:00 AM – 4:30 PM)

Issued By:

Michael B. Kroeger, Assistant Director Date: July 21, 2021

River Bluffs WWTP Mandy Sappington 1630 Des Peres Rd Ste 140

NOTICE OF VIOLATION

To: River Bluffs WWTP Mandy Sappington 1630 Des Peres Rd Ste 140

Saint Louis, MO 631311871

AI Name: River Bluffs WWTP AI ID: 3367 Activity ID: ENV20220003 County: Oldham Enforcement Case ID: Date(s) Violation(s) Observed: 08/11/2022

This is to advise that you are in violation of the provisions cited below:

1 Violation Description for Subject Item AIOO000003367():

No person shall, directly or indirectly, throw, drain, run or otherwise discharge into any of the waters of the Commonwealth, or cause, permit or suffer to be thrown, drained, run or otherwise discharged into such waters any pollutant, or any substance that shall cause or contribute to the pollution of the waters of the Commonwealth in contravention of the standards adopted by the cabinet or in contravention of any of the rules, regulations, permits, or orders of the cabinet or in contravention of any of this chapter. [KRS 224.70-110]

Description of Non Compliance:

Failing to comply with 401 KAR 5:065, Section 2(1), which cites to 40 CFR 122.41(a), by failing to comply with the terms and conditions of KPDES Permit No. KY0043150, monitoring point 001-1, for Total Residual Chlorine. The permitted limit for Total Residual Chlorine is concentration monthly avg., less than or equal to .011 mg/L; and concentration daily max., less than or equal to .019 mg/L. The facility reported the following: concentration monthly avg. .38 mg/L; and concentration daily max. .38 mg/L for June 2022.

The remedial measure(s), and date(s) to be completed by are as follows:

Violations of the above cited statute(s) and/or regulation(s) are subject to a civil penalty per day per violation. Violations carry civil penalties of up to \$25,000 per day per violation depending on the statutes/regulations violated. In addition, violations may be concurrently enjoined. Compliance with remedial measures and their deadlines does not provide exemption from liability for violations during the period of remediation, nor prevent additional remedial measures from being required.

If you have questions or need further information, write or call the undersigned:

Department for Environmental Protection Division of Enforcement 300 Sower Blvd Frankfort, KY 40601 502-782-6859 (8:00 AM – 4:30 PM)

Issued By:

Marton A. Bascombe

Marlon Bascombe, Environmental Control Manager Date: September 9, 2022 LH WWTP Alica Alexander 1650 Des Peres Rd Ste 303

NOTICE OF VIOLATION

To: LH WWTP Alica Alexander 1650 Des Peres Rd Ste 303

Saint Louis, MO 63131

AI Name: LH WWTP AI ID: 163895 Activity ID: ENV20210003 County: Scott Enforcement Case ID: Date(s) Violation(s) Observed: 09/01/2021

This is to advise that you are in violation of the provisions cited below:

1 Violation Description for Subject Item AIOO0000163895():

No person shall, directly or indirectly, throw, drain, run or otherwise discharge into any of the waters of the Commonwealth, or cause, permit or suffer to be thrown, drained, run or otherwise discharged into such waters any pollutant, or any substance that shall cause or contribute to the pollution of the waters of the Commonwealth in contravention of the standards adopted by the cabinet or in contravention of any of the rules, regulations, permits, or orders of the cabinet or in contravention of any of this chapter. [KRS 224.70-110]

Description of Non Compliance:

Failing to comply with 401 KAR 5:065, Section 2(1), which cites to 40 CFR 122.41(a), by failing to comply with the terms and conditions of KPDES Permit No. KY0081591, monitoring point 001-1, for E. Coli. The permitted limit for E. Coli is concentration 30-day geometric avg., less than or equal to 130 MPN/100 mL. The facility reported the following: concentration 30-day geometric avg. 166 MPN/100 mL for April 2021.

The remedial measure(s), and date(s) to be completed by are as follows:

AI: LH WWTP -- 163895

Violations of the above cited statute(s) and/or regulation(s) are subject to a civil penalty per day per violation. Violations carry civil penalties of up to \$25,000 per day per violation depending on the statutes/regulations violated. In addition, violations may be concurrently enjoined. Compliance with remedial measures and their deadlines does not provide exemption from liability for violations during the period of remediation, nor prevent additional remedial measures from being required.

If you have questions or need further information, write or call the undersigned:

Department for Environmental Protection Division of Enforcement 300 Sower Blvd Frankfort, KY 40601 502-782-6859 (8:00 AM - 4:30 PM)

Issued By:

Matalle P. Bruner Natalie P. Bruner, Environmental Control Manager

Date: September 29, 2021

LH WWTP Mandy Sappington 1630 Des Peres Rd Ste 140

NOTICE OF VIOLATION

To: LH WWTP Mandy Sappington 1630 Des Peres Rd Ste 140

Saint Louis, MO 631311871

AI Name: LH WWTP AI ID: 163895 Activity ID: ENV20220001 County: Scott Enforcement Case ID: Date(s) Violation(s) Observed: 11/17/2022

This is to advise that you are in violation of the provisions cited below:

1 Violation Description for Subject Item AIOO0000163895():

No person shall, directly or indirectly, throw, drain, run or otherwise discharge into any of the waters of the Commonwealth, or cause, permit or suffer to be thrown, drained, run or otherwise discharged into such waters any pollutant, or any substance that shall cause or contribute to the pollution of the waters of the Commonwealth in contravention of the standards adopted by the cabinet or in contravention of any of the rules, regulations, permits, or orders of the cabinet or in contravention of any of this chapter. [KRS 224.70-110]

Description of Non Compliance:

Failing to comply with 401 KAR 5:065, Section 2(1), which cites to 40 CFR 122.41(a), by failing to comply with the terms and conditions of KPDES Permit No. KY0081591, monitoring point 001-1, for Total Residual Chlorine. The permitted limit for Total Residual Chlorine is concentration monthly avg., less than or equal to .011 mg/L; and concentration daily max., less than or equal to .019 mg/L. The facility reported the following: concentration monthly avg. .11 mg/L; and concentration daily max. .11 mg/L for August 2022.

The remedial measure(s), and date(s) to be completed by are as follows:

AI: LH WWTP -- 163895

Violations of the above cited statute(s) and/or regulation(s) are subject to a civil penalty per day per violation. Violations carry civil penalties of up to \$25,000 per day per violation depending on the statutes/regulations violated. In addition, violations may be concurrently enjoined. Compliance with remedial measures and their deadlines does not provide exemption from liability for violations during the period of remediation, nor prevent additional remedial measures from being required.

If you have questions or need further information, write or call the undersigned:

Department for Environmental Protection Division of Enforcement 300 Sower Blvd Frankfort, KY 40601 502-782-6859 (8:00 AM – 4:30 PM)

Issued By:

Marton A. Bascombe

Marlon Bascombe, Environmental Control Manager Date: January 11, 2023 River Bluffs Inc Subd Betsy C Helm 5501 W KY 524

Westport, KY 40077

NOTICE OF VIOLATION

To: River Bluffs Inc Subd Betsy C Helm 5501 W KY 524

Westport, KY 40077

AI Name: River Bluffs Inc Subd AI ID: 3367 Activity ID: ENV20190001 County: Oldham Enforcement Case ID: Date(s) Violation(s) Observed: 09/27/2019, 12/04/2019

This is to advise that you are in violation of the provisions cited below:

1 Violation Description for Subject Item AIOO000003367():

No person shall, directly or indirectly, throw, drain, run or otherwise discharge into any of the waters of the Commonwealth, or cause, permit or suffer to be thrown, drained, run or otherwise discharged into such waters any pollutant, or any substance that shall cause or contribute to the pollution of the waters of the Commonwealth in contravention of the standards adopted by the cabinet or in contravention of any of the rules, regulations, permits, or orders of the cabinet or in contravention of any of this chapter. [KRS 224.70-110]

Description of Non Compliance:

Failing to comply with 40 CFR 122.41(a), as adopted by 401 KAR 5:065, Section 2(1), by failing to comply with the terms and conditions of KPDES Permit No. KY0043150, monitoring point 001-1, for Total Ammonia Nitrogen (as N). The permitted limit for Total Ammonia Nitrogen (as N) is loading weekly avg., less than or equal to 8.26 lbs/day; and concentration weekly avg., less than or equal to 15 mg/L. The facility reported the following: loading weekly avg. 8.302 lbs/day; and concentration weekly avg. 15.8 mg/L for December 2018.

The remedial measure(s), and date(s) to be completed by are as follows:

The permittee shall comply with the terms and conditions of the KPDES Permit. [KRS 224.70-110]

2 Violation Description for Subject Item AIOO000003367():

No person shall, directly or indirectly, throw, drain, run or otherwise discharge into any of the waters of the Commonwealth, or cause, permit or suffer to be thrown, drained, run or otherwise discharged into such waters any pollutant, or any substance that shall cause or contribute to the pollution of the waters of the Commonwealth in contravention of the standards adopted by the cabinet or in contravention of any of the rules, regulations, permits, or orders of the cabinet or in contravention of any of this chapter. [KRS 224.70-110]

Description of Non Compliance:

Failing to comply with 40 CFR 122.41(a), as adopted by 401 KAR 5:065, Section 2(1), by failing to comply with the terms and conditions of KPDES Permit No. KY0043150, monitoring point 001-1, for Total Ammonia Nitrogen (as N). The permitted limit for Total Ammonia Nitrogen (as N) is loading weekly avg., less than or equal to 8.26 lbs/day. The facility reported the following: loading weekly avg. 11.56 lbs/day for January 2019.

The remedial measure(s), and date(s) to be completed by are as follows:

3 Violation Description for Subject Item AIOO000003367():

No person shall, directly or indirectly, throw, drain, run or otherwise discharge into any of the waters of the Commonwealth, or cause, permit or suffer to be thrown, drained, run or otherwise discharged into such waters any pollutant, or any substance that shall cause or contribute to the pollution of the waters of the Commonwealth in contravention of the standards adopted by the cabinet or in contravention of any of the rules, regulations, permits, or orders of the cabinet or in contravention of any of this chapter. [KRS 224.70-110]

Description of Non Compliance:

Failing to comply with 40 CFR 122.41(a), as adopted by 401 KAR 5:065, Section 2(1), by failing to comply with the terms and conditions of KPDES Permit No. KY0043150, monitoring point 001-1, for Total Ammonia Nitrogen (as N). The permitted limit for Total Ammonia Nitrogen (as N) is loading weekly avg., less than or equal to 8.26 lbs/day. The facility reported the following: loading weekly avg. 9.381 lbs/day for November 2018.

The remedial measure(s), and date(s) to be completed by are as follows:

The permittee shall comply with the terms and conditions of the KPDES Permit. [KRS 224.70-110]

4 Violation Description for Subject Item AIOO000003367():

No person shall, directly or indirectly, throw, drain, run or otherwise discharge into any of the waters of the Commonwealth, or cause, permit or suffer to be thrown, drained, run or otherwise discharged into such waters any pollutant, or any substance that shall cause or contribute to the pollution of the waters of the Commonwealth in contravention of the standards adopted by the cabinet or in contravention of any of the rules, regulations, permits, or orders of the cabinet or in contravention of any of this chapter. [KRS 224.70-110]

Description of Non Compliance:

Failing to comply with 40 CFR 122.41(a), as adopted by 401 KAR 5:065, Section 2(1), by failing to comply with the terms and conditions of KPDES Permit No. KY0043150, monitoring point 001-1, for Total Ammonia Nitrogen (as N). The permitted limit for Total Ammonia Nitrogen (as N) is loading weekly avg., less than or equal to 8.26 lbs/day; and concentration weekly avg., less than or equal to 15 mg/L. The facility reported the following: loading weekly avg. 9.244 lbs/day; and concentration weekly avg. 16.3 mg/L for March 2019.

The remedial measure(s), and date(s) to be completed by are as follows:

The permittee shall comply with the terms and conditions of the KPDES Permit. [KRS 224.70-110]

5 Violation Description for Subject Item AIOO000003367():

No person shall, directly or indirectly, throw, drain, run or otherwise discharge into any of the waters of the Commonwealth, or cause, permit or suffer to be thrown, drained, run or otherwise discharged into such waters any pollutant, or any substance that shall cause or contribute to the pollution of the waters of the Commonwealth in contravention of the standards adopted by the cabinet or in contravention of any of the rules, regulations, permits, or orders of the cabinet or in contravention of any of this chapter. [KRS 224.70-110]

Description of Non Compliance:

Failing to comply with 40 CFR 122.41(a), as adopted by 401 KAR 5:065, Section 2(1), by failing to comply with the terms and conditions of KPDES Permit No. KY0043150, monitoring point 001-1, for Total Ammonia Nitrogen (as N). The permitted limit for Total Ammonia Nitrogen (as N) is loading weekly avg., less than or equal to 3.3 lbs/day; and concentration monthly avg., less than or equal to 4 mg/L; and concentration weekly avg., less than or equal to 6 mg/L. The facility reported the following: loading weekly avg. 5.137 lbs/day; and concentration monthly avg. 4.1 mg/L; and concentration weekly avg. 11 mg/L for August 2019.

The remedial measure(s), and date(s) to be completed by are as follows:

Violations of the above cited statute(s) and/or regulation(s) are subject to a civil penalty per day per violation. Violations carry civil penalties of up to \$25,000 per day per violation depending on the statutes/regulations violated. In addition, violations may be concurrently enjoined. Compliance with remedial measures and their deadlines does not provide exemption from liability for violations during the period of remediation, nor prevent additional remedial measures from being required.

If you have questions or need further information, write or call the undersigned:

Department for Environmental Protection Division of Enforcement 300 Sower Blvd Frankfort, KY 40601 502-782-6859 (8:00 AM – 4:30 PM)

Issued By:

Michael B. Kroeger, Director Date: January 23, 2020

River Bluffs WWTP Mandy Sappington 1630 Des Peres Rd Ste 140

NOTICE OF VIOLATION

To: River Bluffs WWTP Mandy Sappington 1630 Des Peres Rd Ste 140

Saint Louis, MO 631311871

AI Name: River Bluffs WWTP AI ID: 3367 Activity ID: ENV20220004 County: Oldham Enforcement Case ID: Date(s) Violation(s) Observed: 11/17/2022

This is to advise that you are in violation of the provisions cited below:

1 Violation Description for Subject Item AIOO000003367():

No person shall, directly or indirectly, throw, drain, run or otherwise discharge into any of the waters of the Commonwealth, or cause, permit or suffer to be thrown, drained, run or otherwise discharged into such waters any pollutant, or any substance that shall cause or contribute to the pollution of the waters of the Commonwealth in contravention of the standards adopted by the cabinet or in contravention of any of the rules, regulations, permits, or orders of the cabinet or in contravention of any of this chapter. [KRS 224.70-110]

Description of Non Compliance:

Failing to comply with 401 KAR 5:065, Section 2(1), which cites to 40 CFR 122.41(a), by failing to comply with the terms and conditions of KPDES Permit No. KY0043150, monitoring point 001-1, for Total Residual Chlorine. The permitted limit for Total Residual Chlorine is concentration monthly avg., less than or equal to .011 mg/L; and concentration daily max., less than or equal to .019 mg/L. The facility reported the following: concentration monthly avg. .73 mg/L; and concentration daily max. .73 mg/L for September 2022.

The remedial measure(s), and date(s) to be completed by are as follows:
Violations of the above cited statute(s) and/or regulation(s) are subject to a civil penalty per day per violation. Violations carry civil penalties of up to \$25,000 per day per violation depending on the statutes/regulations violated. In addition, violations may be concurrently enjoined. Compliance with remedial measures and their deadlines does not provide exemption from liability for violations during the period of remediation, nor prevent additional remedial measures from being required.

If you have questions or need further information, write or call the undersigned:

Department for Environmental Protection Division of Enforcement 300 Sower Blvd Frankfort, KY 40601 502-782-6859 (8:00 AM – 4:30 PM)

Issued By:

Marton A. Bascombe

Marlon Bascombe, Environmental Control Manager Date: January 25, 2023 Delaplain Disposal Mandy Sappington 1630 Des Peres Rd Ste 140

Saint Louis, MO 631311871

NOTICE OF VIOLATION

To: Delaplain Disposal Mandy Sappington 1630 Des Peres Rd Ste 140

Saint Louis, MO 631311871

AI Name: Delaplain Disposal AI ID: 3901 Activity ID: ENV20230001 County: Scott Enforcement Case ID: Date(s) Violation(s) Observed: 02/16/2023

This is to advise that you are in violation of the provisions cited below:

1 Violation Description for Subject Item AIOO000003901():

No person shall, directly or indirectly, throw, drain, run or otherwise discharge into any of the waters of the Commonwealth, or cause, permit or suffer to be thrown, drained, run or otherwise discharged into such waters any pollutant, or any substance that shall cause or contribute to the pollution of the waters of the Commonwealth in contravention of the standards adopted by the cabinet or in contravention of any of the rules, regulations, permits, or orders of the cabinet or in contravention of any of this chapter. [KRS 224.70-110]

Description of Non Compliance:

Failing to comply with 401 KAR 5:065, Section 2(1), which cites to 40 CFR 122.41(a), by failing to comply with the terms and conditions of KPDES Permit No. KY0079049, monitoring point 001-1, for pH. The permitted limit for pH is concentration min., greater than or equal to 6 su. The facility reported the following: concentration min. 5.42 su for November 2022.

The remedial measure(s), and date(s) to be completed by are as follows:

The permittee shall comply with the terms and conditions of the KPDES Permit. [KRS 224.70-110]

2 Violation Description for Subject Item AIOO000003901():

No person shall, directly or indirectly, throw, drain, run or otherwise discharge into any of the waters of the Commonwealth, or cause, permit or suffer to be thrown, drained, run or otherwise discharged into such waters any pollutant, or any substance that shall cause or contribute to the pollution of the waters of the Commonwealth in contravention of the standards adopted by the cabinet or in contravention of any of the rules, regulations, permits, or orders of the cabinet or in contravention of any of this chapter. [KRS 224.70-110]

Description of Non Compliance:

Failing to comply with 401 KAR 5:065, Section 2(1), which cites to 40 CFR 122.41(a), by failing to comply with the terms and conditions of KPDES Permit No. KY0079049, monitoring point 001-1, for E. Coli. The permitted limit for E. Coli is concentration 30-day geometric avg., less than or equal to 130 MPN/100 mL; and concentration 7-day geometric, less than or equal to 240 MPN/100 mL. The facility reported the following: concentration 30-day geometric avg. 1544 MPN/100 mL; and concentration 7-day geometric 2420 MPN/100 mL for December 2022.

The remedial measure(s), and date(s) to be completed by are as follows:

The permittee shall comply with the terms and conditions of the KPDES Permit. [KRS 224.70-110]

3 Violation Description for Subject Item AIOO000003901():

No person shall, directly or indirectly, throw, drain, run or otherwise discharge into any of the waters of the Commonwealth, or cause, permit or suffer to be thrown, drained, run or otherwise discharged into such waters any pollutant, or any substance that shall cause or contribute to the pollution of the waters of the Commonwealth in contravention of the standards adopted by the cabinet or in contravention of any of the rules, regulations, permits, or orders of the cabinet or in contravention of any of this chapter. [KRS 224.70-110]

Description of Non Compliance:

Failing to comply with 401 KAR 5:065, Section 2(1), which cites to 40 CFR 122.41(a), by failing to comply with the terms and conditions of KPDES Permit No. KY0079049, monitoring point 001-1, for Total Suspended Solids. The permitted limit for Total Suspended Solids is concentration max. weekly avg., less than or equal to 45 mg/L. The facility reported the following: concentration max. weekly avg. 80 mg/L for December 2022.

The remedial measure(s), and date(s) to be completed by are as follows:

The permittee shall comply with the terms and conditions of the KPDES Permit. [KRS 224.70-110]

4 Violation Description for Subject Item AIOO000003901():

No person shall, directly or indirectly, throw, drain, run or otherwise discharge into any of the waters of the Commonwealth, or cause, permit or suffer to be thrown, drained, run or otherwise discharged into such waters any pollutant, or any substance that shall cause or contribute to the pollution of the waters of the Commonwealth in contravention of the standards adopted by the cabinet or in contravention of any of the rules, regulations, permits, or orders of the cabinet or in contravention of any of this chapter. [KRS 224.70-110]

Description of Non Compliance:

Failing to comply with 401 KAR 5:065, Section 2(1), which cites to 40 CFR 122.41(a), by failing to comply with the terms and conditions of KPDES Permit No. KY0079049, monitoring point 001-1, for Total Suspended Solids. The permitted limit for Total Suspended Solids is concentration max. weekly avg., less than or equal to 45 mg/L. The facility reported the following: concentration max. weekly avg. 88 mg/L for November 2022.

The remedial measure(s), and date(s) to be completed by are as follows:

Violations of the above cited statute(s) and/or regulation(s) are subject to a civil penalty per day per violation. Violations carry civil penalties of up to \$25,000 per day per violation depending on the statutes/regulations violated. In addition, violations may be concurrently enjoined. Compliance with remedial measures and their deadlines does not provide exemption from liability for violations during the period of remediation, nor prevent additional remedial measures from being required.

If you have questions or need further information, write or call the undersigned:

Department for Environmental Protection Division of Enforcement 300 Sower Blvd Frankfort, KY 40601 502-782-6859 (8:00 AM – 4:30 PM)

Issued By:

Marton A. Bascombe

Marlon Bascombe, Environmental Control Manager Date: March 3, 2023 LH WWTP Ali Alexander 1650 Des Peres Rd Suite 303 Des Peres, MO 63131

NOTICE OF VIOLATION

To: LH WWTP Ali Alexander 1650 Des Peres Rd Suite 303 Des Peres, MO 63131

AI Name: LH WWTP AI ID: 163895 Activity ID: ENV20210001 County: Scott Enforcement Case ID: Date(s) Violation(s) Observed: 02/19/2021

This is to advise that you are in violation of the provisions cited below:

1 Violation Description for Subject Item AIOO0000163895():

No person shall, directly or indirectly, throw, drain, run or otherwise discharge into any of the waters of the Commonwealth, or cause, permit or suffer to be thrown, drained, run or otherwise discharged into such waters any pollutant, or any substance that shall cause or contribute to the pollution of the waters of the Commonwealth in contravention of the standards adopted by the cabinet or in contravention of any of the rules, regulations, permits, or orders of the cabinet or in contravention of any of this chapter. [KRS 224.70-110]

Description of Non Compliance:

Failing to comply with 40 CFR 122.41(a), as adopted by 401 KAR 5:065, Section 2(1), by failing to comply with the terms and conditions of KPDES Permit No. KY0081591, monitoring point 001-1, for E. Coli. The permitted limit for E. Coli is concentration 30-day geometric avg., less than or equal to 130 MPN/100 mL. The facility reported the following: concentration 30-day geometric avg. 133 MPN/100 mL for December 2020.

The remedial measure(s), and date(s) to be completed by are as follows:

AI: LH WWTP -- 163895

Violations of the above cited statute(s) and/or regulation(s) are subject to a civil penalty per day per violation. Violations carry civil penalties of up to \$25,000 per day per violation depending on the statutes/regulations violated. In addition, violations may be concurrently enjoined. Compliance with remedial measures and their deadlines does not provide exemption from liability for violations during the period of remediation, nor prevent additional remedial measures from being required.

If you have questions or need further information, write or call the undersigned:

Department for Environmental Protection Division of Enforcement 300 Sower Blvd Frankfort, KY 40601 502-782-6859 (8:00 AM – 4:30 PM)

Issued By:

Michael B. Kroeger, Assistant Director Date: May 28, 2021

LH WWTP Josiah Cox 500 Northwest Plaza Dr Ste 500

Saint Ann, MO 63074

NOTICE OF VIOLATION

To: LH WWTP Josiah Cox 500 Northwest Plaza Dr Ste 500

Saint Ann, MO 63074

AI Name: LH WWTP AI ID: 163895 Activity ID: ENV20210001 County: Scott Enforcement Case ID: Date(s) Violation(s) Observed: 02/19/2021

This is to advise that you are in violation of the provisions cited below:

1 Violation Description for Subject Item AIOO0000163895():

No person shall, directly or indirectly, throw, drain, run or otherwise discharge into any of the waters of the Commonwealth, or cause, permit or suffer to be thrown, drained, run or otherwise discharged into such waters any pollutant, or any substance that shall cause or contribute to the pollution of the waters of the Commonwealth in contravention of the standards adopted by the cabinet or in contravention of any of the rules, regulations, permits, or orders of the cabinet or in contravention of any of this chapter. [KRS 224.70-110]

Description of Non Compliance:

Failing to comply with 40 CFR 122.41(a), as adopted by 401 KAR 5:065, Section 2(1), by failing to comply with the terms and conditions of KPDES Permit No. KY0081591, monitoring point 001-1, for E. Coli. The permitted limit for E. Coli is concentration 30-day geometric avg., less than or equal to 130 MPN/100 mL. The facility reported the following: concentration 30-day geometric avg. 133 MPN/100 mL for December 2020.

The remedial measure(s), and date(s) to be completed by are as follows:

AI: LH WWTP -- 163895

Violations of the above cited statute(s) and/or regulation(s) are subject to a civil penalty per day per violation. Violations carry civil penalties of up to \$25,000 per day per violation depending on the statutes/regulations violated. In addition, violations may be concurrently enjoined. Compliance with remedial measures and their deadlines does not provide exemption from liability for violations during the period of remediation, nor prevent additional remedial measures from being required.

If you have questions or need further information, write or call the undersigned:

Department for Environmental Protection Division of Enforcement 300 Sower Blvd Frankfort, KY 40601 502-782-6859 (8:00 AM – 4:30 PM)

Issued By:

Michael B. Kroeger, Assistant Director Date: March 24, 2021

Delaplain Disposal Ms. Marie Jacobs PO Box 4382

Lexington, KY 405444382

NOTICE OF VIOLATION

To: Delaplain Disposal Ms. Marie Jacobs PO Box 4382

Lexington, KY 405444382

AI Name: Delaplain Disposal AI ID: 3901 Activity ID: ENV20220001 County: Scott Enforcement Case ID: Date(s) Violation(s) Observed: 03/21/2022

This is to advise that you are in violation of the provisions cited below:

1 Violation Description for Subject Item AIOO000003901():

No person shall, directly or indirectly, throw, drain, run or otherwise discharge into any of the waters of the Commonwealth, or cause, permit or suffer to be thrown, drained, run or otherwise discharged into such waters any pollutant, or any substance that shall cause or contribute to the pollution of the waters of the Commonwealth in contravention of the standards adopted by the cabinet or in contravention of any of the rules, regulations, permits, or orders of the cabinet or in contravention of any of this chapter. [KRS 224.70-110]

Description of Non Compliance:

Failing to comply with 401 KAR 5:065, Section 2(1), which cites to 40 CFR 122.41(a), by failing to comply with the terms and conditions of KPDES Permit No. KY0079049, monitoring point 001-1, for E. Coli. The permitted limit for E. Coli is concentration 7-day geometric, less than or equal to 240 MPN/100 mL. The facility reported the following: concentration 7-day geometric 1300 MPN/100 mL for November 2021.

The remedial measure(s), and date(s) to be completed by are as follows:

The permittee shall comply with the terms and conditions of the KPDES Permit. [KRS 224.70-110]

2 Violation Description for Subject Item AIOO000003901():

No person shall, directly or indirectly, throw, drain, run or otherwise discharge into any of the waters of the Commonwealth, or cause, permit or suffer to be thrown, drained, run or otherwise discharged into such waters any pollutant, or any substance that shall cause or contribute to the pollution of the waters of the Commonwealth in contravention of the standards adopted by the cabinet or in contravention of any of the rules, regulations, permits, or orders of the cabinet or in contravention of any of this chapter. [KRS 224.70-110]

Description of Non Compliance:

Failing to comply with 401 KAR 5:065, Section 2(1), which cites to 40 CFR 122.41(a), by failing to comply with the terms and conditions of KPDES Permit No. KY0079049, monitoring point 001-1, for E. Coli. The permitted limit for E. Coli is concentration 7-day geometric, less than or equal to 240 MPN/100 mL. The facility reported the following: concentration 7-day geometric 980 MPN/100 mL for October 2021.

The remedial measure(s), and date(s) to be completed by are as follows:

Violations of the above cited statute(s) and/or regulation(s) are subject to a civil penalty per day per violation. Violations carry civil penalties of up to \$25,000 per day per violation depending on the statutes/regulations violated. In addition, violations may be concurrently enjoined. Compliance with remedial measures and their deadlines does not provide exemption from liability for violations during the period of remediation, nor prevent additional remedial measures from being required.

If you have questions or need further information, write or call the undersigned:

Department for Environmental Protection Division of Enforcement 300 Sower Blvd Frankfort, KY 40601 502-782-6859 (8:00 AM - 4:30 PM)

Issued By:

Matalle P. Bruner Natalie P. Bruner, Director

Date: April 7, 2022

River Bluffs WWTP Mandy Sappington 1630 Des Peres Rd Ste 140 Des Peres, MO 63131

NOTICE OF VIOLATION

To: River Bluffs WWTP Mandy Sappington 1630 Des Peres Rd Ste 140 Des Peres, MO 63131

AI Name: River Bluffs WWTP AI ID: 3367 Activity ID: ENV20220001 County: Oldham Enforcement Case ID: Date(s) Violation(s) Observed: 03/21/2022

This is to advise that you are in violation of the provisions cited below:

1 Violation Description for Subject Item AIOO000003367():

No person shall, directly or indirectly, throw, drain, run or otherwise discharge into any of the waters of the Commonwealth, or cause, permit or suffer to be thrown, drained, run or otherwise discharged into such waters any pollutant, or any substance that shall cause or contribute to the pollution of the waters of the Commonwealth in contravention of the standards adopted by the cabinet or in contravention of any of the rules, regulations, permits, or orders of the cabinet or in contravention of any of this chapter. [KRS 224.70-110]

Description of Non Compliance:

Failing to comply with 401 KAR 5:065, Section 2(1), which cites to 40 CFR 122.41(a), by failing to comply with the terms and conditions of KPDES Permit No. KY0043150, monitoring point 001-1, for E. Coli. The permitted limit for E. Coli is concentration 30-day geometric avg., less than or equal to 130 MPN/100 mL; and concentration 7-day geometric, less than or equal to 240 MPN/100 mL. The facility reported the following: concentration 30-day geometric avg. 248 MPN/100 mL; and concentration 7-day geometric 248 MPN/100 mL for November 2021.

The remedial measure(s), and date(s) to be completed by are as follows:

The permittee shall comply with the terms and conditions of the KPDES Permit. [KRS 224.70-110]

2 Violation Description for Subject Item AIOO000003367():

No person shall, directly or indirectly, throw, drain, run or otherwise discharge into any of the waters of the Commonwealth, or cause, permit or suffer to be thrown, drained, run or otherwise discharged into such waters any pollutant, or any substance that shall cause or contribute to the pollution of the waters of the Commonwealth in contravention of the standards adopted by the cabinet or in contravention of any of the rules, regulations, permits, or orders of the cabinet or in contravention of any of this chapter. [KRS 224.70-110]

Description of Non Compliance:

Failing to comply with 401 KAR 5:065, Section 2(1), which cites to 40 CFR 122.41(a), by failing to comply with the terms and conditions of KPDES Permit No. KY0043150, monitoring point 001-1, for Total Ammonia Nitrogen (as N). The permitted limit for Total Ammonia Nitrogen (as N) is concentration monthly avg., less than or equal to 4 mg/L; and concentration daily max., less than or equal to 6 mg/L. The facility reported the following: concentration monthly avg. 6.84 mg/L; and concentration daily max. 6.84 mg/L for October 2021.

The remedial measure(s), and date(s) to be completed by are as follows:

No person shall, directly or indirectly, throw, drain, run or otherwise discharge into any of the waters of the Commonwealth, or cause, permit or suffer to be thrown, drained, run or otherwise discharged into such waters any pollutant, or any substance that shall cause or contribute to the pollution of the waters of the Commonwealth in contravention of the standards adopted by the cabinet or in contravention of any of the rules, regulations, permits, or orders of the cabinet or in contravention of any of this chapter. [KRS 224.70-110]

Description of Non Compliance:

Failing to comply with 401 KAR 5:065, Section 2(1), which cites to 40 CFR 122.41(a), by failing to comply with the terms and conditions of KPDES Permit No. KY0043150, monitoring point 001-1, for E. Coli. The permitted limit for E. Coli is concentration 30-day geometric avg., less than or equal to 130 MPN/100 mL. The facility reported the following: concentration 30-day geometric avg. 222 MPN/100 mL for December 2021.

The remedial measure(s), and date(s) to be completed by are as follows:

Violations of the above cited statute(s) and/or regulation(s) are subject to a civil penalty per day per violation. Violations carry civil penalties of up to \$25,000 per day per violation depending on the statutes/regulations violated. In addition, violations may be concurrently enjoined. Compliance with remedial measures and their deadlines does not provide exemption from liability for violations during the period of remediation, nor prevent additional remedial measures from being required.

If you have questions or need further information, write or call the undersigned:

Department for Environmental Protection Division of Enforcement 300 Sower Blvd Frankfort, KY 40601 502-782-6859 (8:00 AM - 4:30 PM)

Issued By:

Matalle P. Bruner Natalie P. Bruner, Director

Date: May 11, 2022