

Exhibit No.: _____

Issues: Public Interest

Witness: Chad Sayre

Sponsoring Party: Lake Perry Lot Owners Association

Type of Exhibit: Rebuttal Testimony

Case Nos.: WA-2019-0299

Date Testimony Prepared: August 23, 2019

**BEFORE THE PUBLIC SERVICE COMMISSION
OF THE STATE OF MISSOURI**

In the Matter of the Application of Confluence)
Rivers Utility Operating Company, Inc.)
For Authority to Acquire Certain Water and)
Sewer Assets and for a Certificate of Convenience)
And Necessity)

Case No. WA-2019-0299

Case No. SA-2019-0300

**REBUTTAL TESTIMONY OF
CHAD SAYRE
ON BEHALF OF THE
LAKE PERRY LOT OWNERS ASSOCIATION
AUGUST 23, 2019**

LPLWA Exhibit No. 308
Date 10/17/19 Reporter JWB
File No. WA-2019-0299

1 Q. What is your name?

2 A. Chad Warren Sayre

3 Q. On behalf of what party in this case are you testifying?

4 A. Lake Perry Lot Owners Association

5 Q. What is your education and professional background?

6 A. I obtained a Bachelor of Science in Civil Engineering in 1991 and a Master of Science in Civil
7 Engineering in 1995. Professionally, I am a registered engineer in the State of Missouri and
8 Nebraska.

9 I am an owner-principal of Allstate Consultants LLC. My business address is 3312 LeMone
10 Industrial Blvd., Columbia, MO 65201. We have significant experience and success in the
11 assessment, planning, designs and funding development of water supply, treatment, distribution,
12 elevated storage, as well as wastewater, permitting, compliance, collections, operations, disposal
13 and treatment. I have attached a pictorial project portfolio of many of the projects Allstate
14 Consultants have undertaken as Schedule CWS-1 to my testimony.

15 Q. What is the purpose of your testimony?

16 A. The purpose of my testimony is to provide technical assistance to the Lake Perry Lot Owners
17 Association ("Association") and an engineering report that evaluates the current condition of the
18 Port Perry Service Company water and wastewater systems. The Association requested my
19 evaluation as part of a data set to evaluate the Application in this case, the proposed purchase of
20 the systems by Confluence Rivers Utility Operating Company, Inc. and an assessment and report
21 about current and potential future needs for improvements cost and the impact on water and sewer
22 rates for the short term, midterm, and long term. Based on this analysis, I provide my engineering

1 opinion that the Application is detrimental to the public interest based upon the public and
2 confidential data reviewed to date.

3 **Q. Please summarize the contents of your engineering report.**

4 A. I have attached a copy of my Preliminary Engineering Report dated January 7, 2019 for an
5 “Engineering Summary and Assessment of Lake Perry Water and Wastewater systems,” as
6 Schedule CWS-2 hereto. My report conclusions are best summarized in section 3.0 therein. For
7 ease of reference, I will reproduce those general conclusions as follows:

8 **3.0 Proposed System Improvements**

9 **3.1 Water System**

10 Following a cursory site review, meetings with Lake Perry HOA, and review of
11 public documents, we don’t see any immediate major items that need to be
12 completed for permit compliance. Well #2 needs to be evaluated for rehabilitation,
13 modernization, and improvement options or a new well needs constructed with
14 complete system integration to the elevated storage and Well #1. Both wells as
15 public water supplies need to be able to disinfect, and eventually will need pump
16 upgrades, but currently the system is in compliance with regulations and MDNR.
17 Prior to any final change of ownership an MDNR standard comprehensive
18 hydraulic analysis may be helpful to finalize if and what improvements are finally
19 needed, and also may yield data for final improvements recommendation. My
20 report includes several items that may or may not be required and how those
21 potentials would impact water and sewer consumer’s rates.

22 Well #2 may be able to be rehabilitated for less capital, but system waterlines would
23 need to be possibly upsized to allow better pumping hydraulics over time to the
24 existing storage tank, along with a new pump and VFD, SCADA, and system
25 integration. This could also solve future pressure concerns during peak demand
26 flows. Most of these improvements could be managed and/or performed by
27 existing HOA staff and local contractors over time as part of a 5 to 10 year owner
28 supervised plan.

29 If a new well is drilled, and replaces Well #2, it should be considered to be placed
30 at the existing storage tank site or near it, with system water lines being evaluated
31 by the hydraulic analysis mentioned above.

32 A complete hydraulic analysis should be completed prior to any work, decisions,
33 or improvements being made. This analysis and report of options and report of
34 options should be submitted to MDNR in the form of a complete PER to ensure
35 compliance and informed decisions are made. This could save capital investments
36 and increase benefits to cost. The buyer may want to consider this analysis as a
37 contract or agreement contingency following attorney review which will keep rates

1 for water and wastewater consumers at levels in the public interest and at or below
2 reasonable rates for this system.

3 Enhanced control valves, fencing for security and other minor items can be
4 completed with local staff once the system is acquired to save operations, costs and
5 to allow remote monitoring for the public interest and public health.

6 The current elevated storage tank is large enough for compliance.

7 **3.2 Wastewater System**

8 The wastewater system reportedly is in compliance with MDNR currently, but a
9 permit evaluation and/or renewal needs to be processed ASAP (see Appendix 7.10
10 and 7.12). Minor replacements and maintenance items are needed over time as in
11 any operating system. This system is a no discharge system and is in compliance.
12 These include brush clearing, gravel drive access improvements, gates and land
13 application sprinkler head replacements. Additional enhancements to monitor
14 security, and adding pressure activated valves to allow zone development in the
15 irrigation zones should be evaluated and planned to insure operation costs and to
16 benefit the public's interest by being efficient in labor costs. Improved warning
17 signs and potential fencing and some more access restrictions should be considered
18 over time.

19 **Q. Please briefly describe the steps you undertook in developing your engineering report for
20 Lake Perry Service Company.**

21 A. I requested several key documents from the Association to provide the engineering report and a
22 preliminary Rate Impact Assessment. These key documents were location maps, service territory
23 maps, general subdivision or customer maps, audits, and financials as available. I also requested
24 governing rules and regulations for customers and systems, operating permits and any recent
25 MDNR inspection documents. I took a site tour with Association personnel.

26 **Q. Did you follow commonly accepted processes in developing the engineering report?**

27 A. Yes. I have completed numerous engineer evaluations and reports on many projects for private,
28 public, quasi-public, municipal, and many types of political subdivisions. This was a standard and
29 straight forward engineering evaluation where there were no documented MDNR notice of
30 violations or immediate issues with environmental or public health risks. I performed a site visit
31 and tour, developed my draft report, and then published a signed and sealed engineering report as
32 part of the accepted engineering practice and minimum standard of care for these types of reports .

1 **Q. How would you distinguish your conclusions from the conclusions of Confluence Rivers in**
2 **their Application and their direct testimony?**

3 A. My report is signed and sealed and is being presented in this case. And I take full
4 responsibility for the content of that report rate impacts and impacts to the public interest, primarily
5 the Association and the systems rate payers. My report has not changed since it was published.
6 My report concludes that while the water and sewer systems are in compliance with basic
7 environmental and safety standards, some routine maintenance and evaluations are required.
8 Regarding the Confluence Rivers conclusions, first let me say that Confluence Rivers has published
9 numerous budgets, draft reports and only one signed sealed report to my knowledge. The results
10 have varied widely and this is confusing. In Confluence Rivers' testimony in this case and the prior
11 case Case No. WM-2018-0166, I see numerous what appears to be speculations in the Confluence
12 Rivers testimony. It is inappropriate to draw engineering conclusions based on such
13 unsubstantiated or widely varying claims, in my opinion. The first time I saw a signed and sealed
14 engineering report from Confluence Rivers was the week before this testimony was due to be filed.
15 I have seen conflicting and inconsistent evaluations of the systems in multiple versions of unsigned
16 and unsealed engineering studies from Confluence Rivers. Mr. Justis has included those conflicting
17 engineering studies in his testimony. This is confusing and a concern to me as a registered
18 professional engineer in the State of Missouri who is regularly employed by public bodies and
19 private entities. My engineering opinion is the same as it was when I first issued my engineering
20 study. But the Confluence Rivers various engineering studies published budgets, and scopes could
21 justify different conclusions and are very confusing to the public.

22 **Q. Do you have specific examples of how these various reports could cause diverse outcomes?**

23 Yes, I do. My report recommends normal maintenance items be completed but that before any new
24 enhancements or improvements are made that a complete hydraulic analysis be made of the water

1 system, and wells to meet a minimum standard of care. My recommendation does not require any
2 formal action from the Department of Natural Resources.

3 However, Confluence Rivers has entered into an Abatement Order on Consent (“AOC”), dated
4 April 2, 2019, signed by Chris Weiberg Director of MDNR’s Water Protection Program and Josiah
5 Cox. I have attached a copy of the AOC to my testimony as Schedule CWS-3. I checked with the
6 MDNR resources and confirmed that Port Perry has had no discharge violations to Nations Creek.
7 There is no reason on environmental precedent for Port Perry to enter into an AOC in my opinion.
8 Yet paragraphs 43-45 of the AOC proposes that Port Perry has at least “anticipated” violations of
9 such a kind as to have “caused pollution” to Nations Creek. I saw nothing at Port Perry that would
10 under a normal standard of care require or justify any abatement order. There has been no letter of
11 warning since 2012 nor notice of violation that would justify any legal action or technical
12 abatement. I can’t find where or how Confluence Rivers can agree to an abatement when nothing
13 needs abatement in my opinion. I also don’t agree with Item 28 where Mr. Wieberg and Mr. Cox
14 indicate the design flow is 740,000 gpd.

15 **Q. In light of your work on the engineering report and reviewing the Lake Perry Service**
16 **Company business plan, do you have any conclusions on whether the Confluence Rivers’**
17 **application is in the public interest?**

18 **A.** In my opinion, the public is best served by an existing compliant system (like Port Perry), when
19 such system is locally owned, locally operated, locally accountable and locally controlled. These
20 Port Perry systems are not out of compliance. The local control will be motivated to maintain
21 compliance at the lowest cost. This is the public’s interest. From my review of the testimony and
22 engineering reports and widely ranging claims of Confluence Rivers in this case and the prior Case
23 No. WM-2018-0116, I see a motivation to increase the cost. From my experience at Raccoon Creek
24 and the Villages at Whiteman and other related projects and clients, I see this family of connected
25 companies end up with sewer rates from \$90.00 to \$100.00 per month as a pattern when I believe

1 there are much more economic alternatives to the public and users. This range is approximately
2 double the state's average rate for similar sized systems. As a registered professional engineer, it
3 is my judgment that the circumstances leading to this situation are detrimental to the public interest.

4 **Q: Does this conclude your testimony?**

5 **A: Yes, it does.**

BEFORE THE PUBLIC SERVICE COMMISSION
OF THE STATE OF MISSOURI

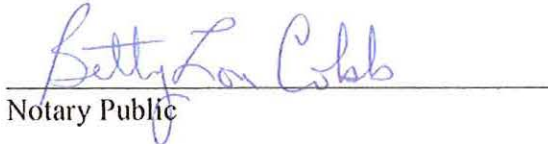
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Rivers Utility Operating Company, Inc., for)
Authority to Acquire Certain Water and Sewer) File No. WA-2019-0299
Assets and for a Certificate of Convenience) File No. SA-2019-0300
and Necessity)

AFFIDAVIT OF CHAD SAYRE

I, Chad Warren Sayre, state that I am an owner-principal of Allstate Consultants LLC, that the Rebuttal Testimony of Chad Sayre filed in the above referenced case and all schedules attached thereto were prepared by me or under my direct supervision, and that the answers to the questions posed therein are true and correct to the best of my information, knowledge and belief.


CHAD
W. SAYRE
REGISTERED PROFESSIONAL ENGINEER
NUMBER
E-27878

Subscribed and sworn to before me this 22nd of August, 2019


Notary Public

My commission expires:
BETTY LOU COBB
Notary Public - Notary Seal
State of Missouri
County of Boone
My Commission Expires December 6, 2019
Commission #15690689
(Seal)



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903 SW Oldham Pkwy #203, Lee's Summit, MO 64081



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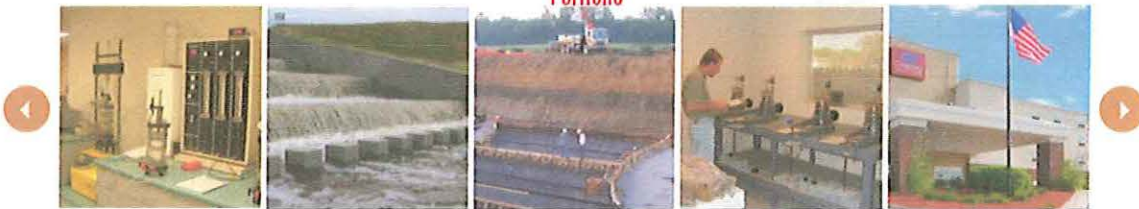
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WASTEWATER STORAGE
LAGOON**
Geotechnical Engineering

**CITY OF MARCELINE OLD
EAST RESERVOIR SPILLWAY
AND DAM REPAIRS**
Geotechnical Engineering

**CITY OF MILAN
WASTEWATER TREATMENT
PLANT**
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LANDFILL
ADMINISTRATION,
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FACILITIES**
Geotechnical Engineering

**COMFORT SUITES HOTEL —
COLUMBIA, MISSOURI**
Structural Engineering

PROJECT PORTFOLIO

Forensic and Investigative Engineering

Title



Chillicothe City Hall Moisture Infiltration
and Structural Evaluation



Roof Evaluation- Hail Damage



Commercial Roof-Wind Damage

SCHEDULE CWS 1



Residential Basement Wall Collapse



House Fire-Electrical Caused Fire



House Fire-Electrical Caused Fire

Geotechnical Engineering

Title



Missouri United Methodist Church Addition



Vandiver Drive Extension



City of Milan Wastewater Treatment Plant



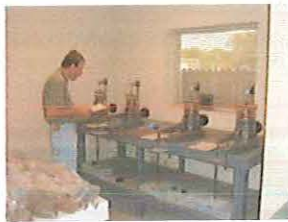
CITY OF MARCELINE OLD EAST RESERVOIR
SPILLWAY AND DAM REPAIRS



LENOIR WOODS RETIREMENT FACILITY



CITY OF HUNTSVILLE WASTEWATER
STORAGE LAGOON



COLUMBIA SANITARY LANDFILL
ADMINISTRATION, MAINTENANCE AND
VEHICLE STORAGE FACILITIES



BASS PRO SHOPS AND CENTERSTATE



ASHLEY FURNITURE STORE

Transportation Engineering

Title



City of Chillicothe, Brunswick Street Improvements



Vandiver Drive Extension



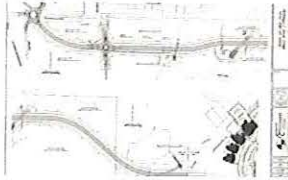
Route K/Scott Boulevard Intersection



Meyer Industrial Drive



US 50/Oak Grove Lane/West Main Street



Waco Road Extension

Structural Engineering

Title



Branson Recreation Center – Branson,
Missouri



Jefferson City Public School – Pioneer Trail
Elementary School – Jefferson City,
Missouri



Linn State Technical College Activity Center,
Includes FEMA Shelter – Linn, Missouri



Etta and Joseph Miller Performing Arts Center – Jefferson City, Missouri



Comfort Suites Hotel – Columbia, Missouri



Riley Toyota – Jefferson City, Missouri



Mexico YMCA Gym Building Addition & Renovation – Mexico, Missouri



Flat Branch Pedestrian Bridge – Columbia, Missouri

Civil Engineering

Title



Wardsville Water System Improvements



Auxvasse Drinking Water Supply
Distribution Improvements



New Franklin Wastewater Treatment
Facility Improvements



Brookfield Wastewater Treatment Facility –
under construction



1500 GPM Booster Pump Station



Aerotor and Carbon Feed Basin



Water Treatment Facility



City of Barnard Water Tank



Locust Creek Raw Water Pump Station



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Lee's Summit, MO 64081

PRELIMINARY ENGINEERING REPORT SUMMARY

Lake Perry Lot Owners' Association

Engineering Summary & Assessment of Lake
Perry Water and Wastewater Systems

January 7, 2019



SCHEDULE CWS 2

PRELIMINARY ENGINEERING REPORT SUMMARY

Lake Perry Lot Owners' Association

Engineering Summary & Assessment of Lake
Perry Water and Wastewater Systems

January 7, 2019



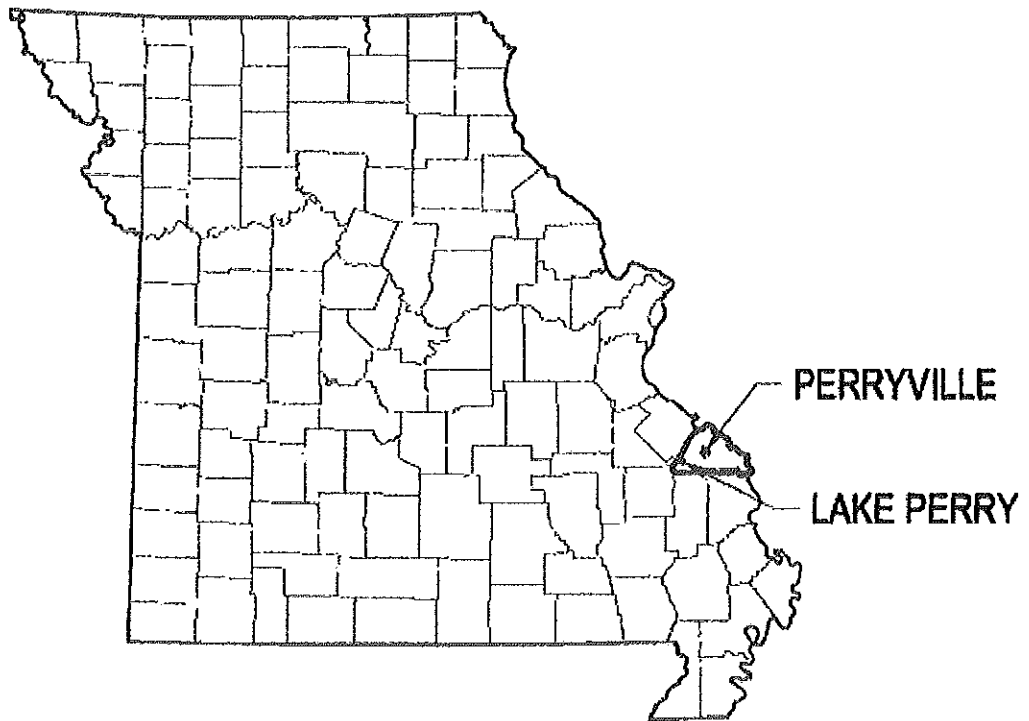
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 - 7.10 MDNR Finding of Compliance
 - 7.11 Perryville Water and Sewer Rate Sheets
 - 7.12 MDNR General Operating permit (issued October 22, 2018) and MDNR Email for Clarification

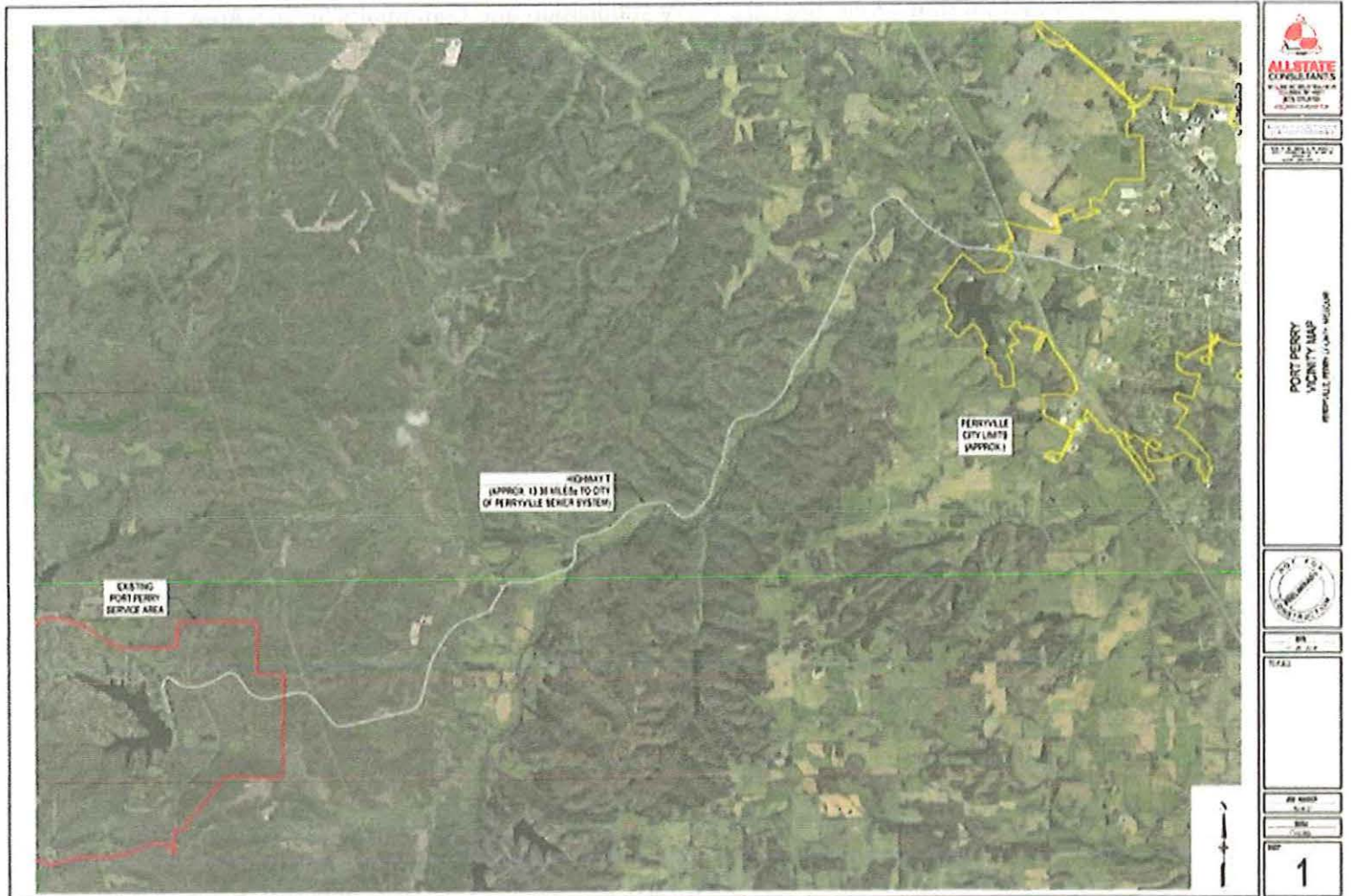
1.0 Background Summary and Introduction

The purpose of this report is to provide a cursory evaluation of the water system and sewer system that serves the Lake Perry Subdivision and Community Service Area. Lake Perry is located in Perry County, Missouri and 13 miles west of Perryville, Missouri. See general location map below:

GENERAL LOCATION MAP

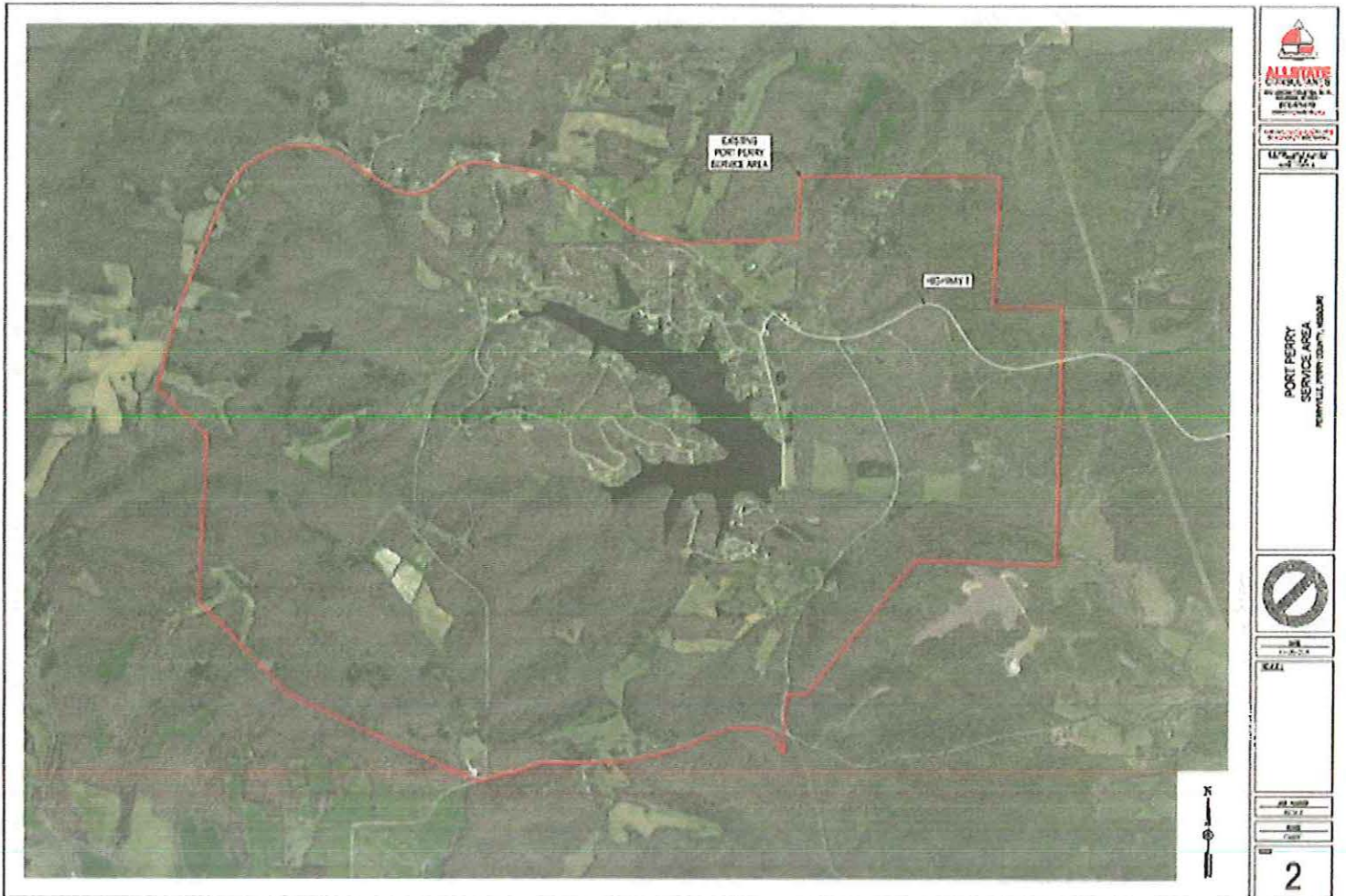


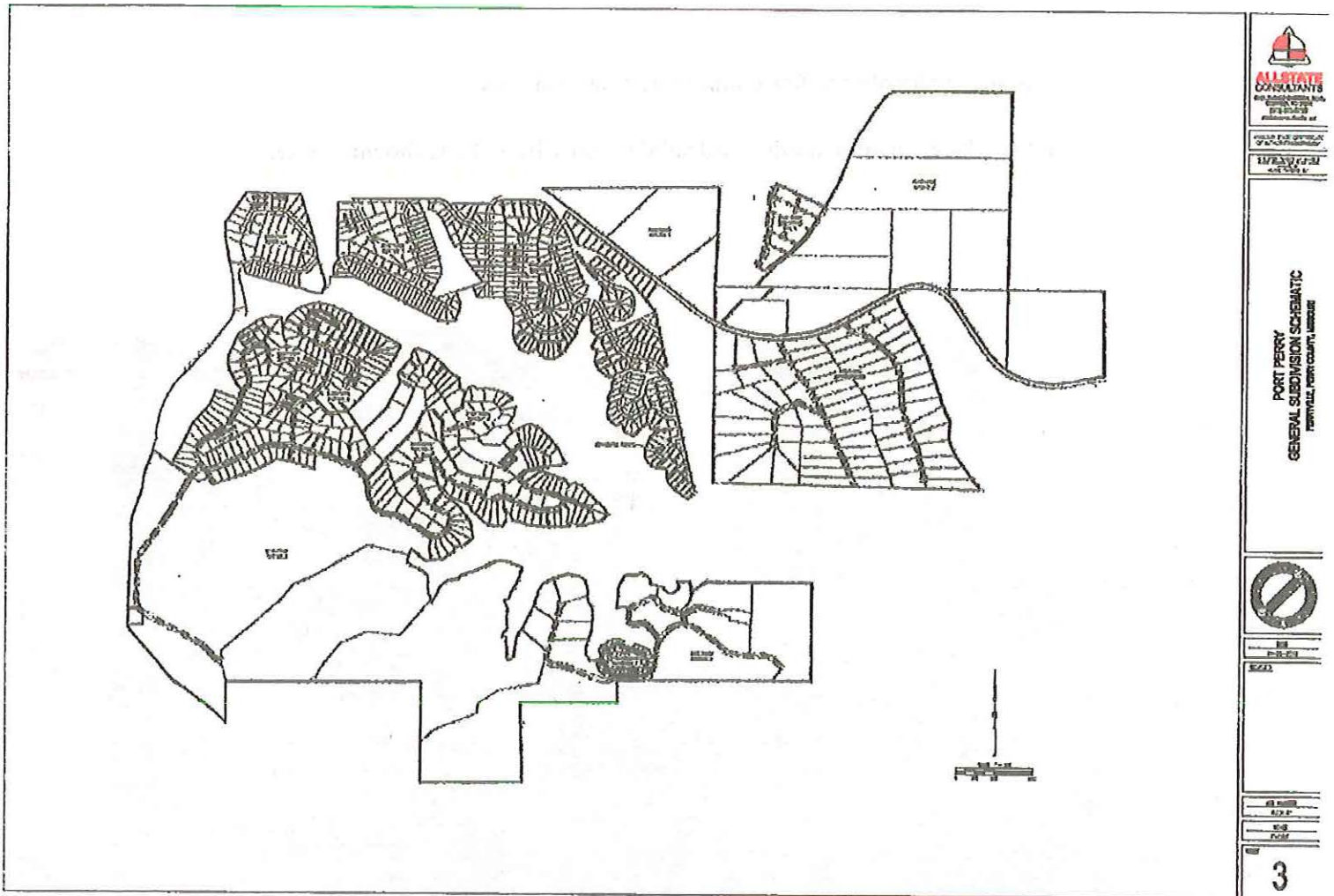
The location diagram below shows a more detailed view of the location.



These maps are located in Appendix 7.01, 7.02, and 7.03

A water and wastewater service and subdivision schematic is shown below:






ALLESTATE CONSULTANTS
 1000 S. HIGHWAY 100
 PERRYVILLE, MISSOURI 63775
 PHONE: 573-547-6574
 FAX: 573-547-6575

PORT PERRY
GENERAL SUBDIVISION SCHEMATIC
 PERRYVILLE, PERRY COUNTY, MISSOURI



SHEET NO. 3
 OF 3

3

This exhibit is in Appendix 7.04 along with a satellite version of the service territory in Appendix 7.03. The Lake Perry water and sewer system is currently owned and operated by Port Perry Service Company. The current owners address and public information is shown below:

Port Perry Service Company
 P.O. Box 43
 Perryville, MO 63775
 573-547-6574

Contacts: Michael Yamitz
 Brad Moll

In general, it is reported that the current owners (Port Perry) have interest in selling ownership of the water and sewer systems to a new owner. The current annual report for the water and sewer system is included as Appendix 7.5. This data was obtained from a public submission to the Public Service Commission (PSC) and includes a summary of all pertinent financial and user data, as well as system technical data. It appears the systems are operating in a solvent manner.

The Lake Perry homeowner's board and other lot owners are evaluating feasibility, options, and approaches to become the new owner/operator as part of an ongoing and current operations of the Lake Perry infrastructure. There could be a new entity to allow a "not for profit" type approach similar to the roadways, right of ways, home owners association owned beaches, parks, buildings, pool, parking entry and stormwater assets. The Lake Perry HOA currently employs competent operations staff and operates a significant amount of Lake Perry assets.

The Lake Perry staff and board are fully funded by lot owner's dues, and assessments. The HOA assets are well maintained and in good working order.

Both the existing drinking water and wastewater systems are permitted by the Missouri Department of Natural Resources (MDNR). Neither of the systems are out of compliance with MDNR currently from a cursory review.

We performed a non-invasive cursory field visit November 29, 2018. These general pictures are included in Appendix 7.6. The MDNR NPDES wastewater operating permit is in Appendix 7.09. An MDNR finding of compliance is in Appendix 7.10. Please note this permit expired November 30, 2018. A general operating permit was issued on October 22, 2018. This permit is included in Appendix 7.12. Please note this permit maybe reissued back into a form of an NPDES permit because of the 74,000 gpd need for capacity. See the MDNR email in 7.12.

2.0 Existing System General Overview and Assessment

2.01 Water Supply, Storage and Distribution

a. The water system is permitted by the MDNR. Its PWS permit number is MO-4036132.

b. Service Territory and Population

The water system territory size is approximately 4,000 acres and includes approximately 360 single family customers and use facilities. The service area is mostly seasonal in nature but approximately 30 permanent residents are year around. The system has reportedly grown steadily over the last 5-6 years. The territory is shown in Appendix 7.03.

c. General Demand Flow Data

It is reported that the average daily flow on a year around calculation is 33,000 gpd.

From June to October flows are average of monthly flows of 44,000 (+/-) gpd. Peak flows are in the range of 55,000 gpd for August/ September as normal peak months based upon public available data in Appendix 7.05.

d. Water Supply

The water is supplied by 2 deep wells. Well #1 is the primary supply. Well #2 is only for peak or emergency currently. The well #1 was drilled in 1973 to 740 feet in depth and is a 6" steel casing to 276 feet below surface. Records indicate a 20 hp submersible pump. 3-phase power serves the primary pump. MDNR records show the pump has a capacity of 110 gpm. Well #2 was drilled in 1986 and is not in modern working order but is reportedly operable manually. Well #1 can be disinfected by liquid chlorination and is modern with alarms, and integration to the storage tank on site. Well #2 is reported to be a larger casing and higher capacity but, also is in need of improvement or replacement according to local staff. Well #1 seemed to be in good operational condition. See pictures in Appendix 7.06. Public information indicates that Well #2 is a 10" casing with a capacity of 300 gpm. but records show up to 1,200 gpm. Well #2 is shown in Appendix 7.06 and does not have a well house, chlorination and water telemetry.

e. Elevated Storage

The documents (Appendix 7.05) available indicate a 223,000 gallon ground storage tank. The tank is approximately 32 feet in diameter and 40 foot tall. No plans were made available. The exterior of the tank appeared to be in good condition.

f. Water Distribution Lines

Local staff reported that waterlines did not have significant leaks or breaks. The lines or systems are not large enough to provide fire protection reportedly. There are approximately 37,920 linear ft. of pvc mains as indicated in Appendix 7.05. No detailed map was available.

g. Operations, Rules and Regulations

Rules, Regulations and Operations are detailed in Appendix 7.07. These were adopted by the Authority in 2002.

h. Water Rates and Revenues

Annual revenues are detailed in Appendix 7.05 in the annual report approved by the Public Service Commission. It appears the current systems operate in a solvent manner.

The current water rate per month for Lake Perry residential users is below:

Minimum monthly charge (water).....	\$13.23
(includes 2000 gallons)	
\$/1000 gallons (water).....	\$ 3.58
5000 gallon user rate/month (water)	\$23.97

A complete set of existing system rules and regulations with complete rate calculations is in Appendix 7.07.

The current wastewater rate per month for Lake Perry residential users is below:

Residential Sites (wastewater).....	\$18.94/month
(flat rate)	

A complete set of existing system rules and regulations with complete rate calculations is Appendix 7.08.

2.02 Wastewater Collection System and Treatment

a. The wastewater collection system consists of septic tank effluent pumps (STEP) and grinder pumps at each connection. There are currently 234 connections reported. The pumps at each connection pump through 1", 2", and 3" lines to the 4 cell lagoon.

The 4 cell lagoon system stabilizes and treats the sewage and stores the effluent. Following storage, the system pumps the effluent to spray irrigation heads that irrigate grass areas for vegetative uptake and dispersion into soils and plant use and stabilization.

The MDNR NPDES expired operating permit is in Appendix 7.09 and the new general permit is in Appendix 7.12. The MDNR's most recent compliance report is in Appendix 7.10.

Currently the system may need an operating permit transition back to a site specific permit. This can take up to 6 months to obtain. The system is in compliance, but there are many benefits to maintain a specific facility permit.

3.0 Proposed System Improvements

3.1 Water System

Following a cursory site review, meetings with Lake Perry HOA, and review of public documents, we don't see any immediate major items that need to be completed. Well #2 needs to be evaluated for rehabilitation, modernization, and improvement or a new well needs constructed with complete system integration to the tower and Well #1. Both wells as supplies need to be able to disinfect, and eventually will need pump upgrades, but currently the system is in compliance with MDNR. Prior to any final change of ownership a couple of hydraulic analysis may be required by MDNR, and also may yield data for final Improvements.

Well #2 may be able to be rehabilitated for less capital, but system waterlines would need to be possibly upsized to allow better pumping hydraulics to the existing storage tank, along with a new pump and VFD, SCADA, and system integration. This could also solve future pressure issues during peak flows. Most of these improvements could be managed and/or performed by existing HOA staff and local contractors.

If a new well is drilled, and replaces Well #2, it should be considered to be placed at the existing storage tank site or near it, with system water lines being evaluated by a hydraulic analysis.

A complete hydraulic analysis should be completed prior to any work, decisions, or improvements being made. This analysis should be submitted to MDNR in the form of a complete PER to ensure compliance and informed decisions are made. This could save capital investments and increase benefits to cost. The buyer may want to consider this analysis as a contract or agreement contingency following attorney review.

Control valves, fencing for security and other minor items can be completed with local staff once the system is acquired.

The current elevated storage tank is large enough for compliance.

3.2 Wastewater System

The wastewater system reportedly is in compliance with MDNR currently, but a permit evaluation and/or renewal needs to be processed ASAP (see Appendix 7.10 and 7.12). Minor replacements and maintenance items are needed. These include brush clearing, gravel drive access improvements, gates, and land application sprinkler head replacements. Additional enhancements to monitor pressures, security, and adding pressure activated valves to allow zone development in the irrigation zones should be planned. Warning signs and potential fencing and some more access restrictions should be considered.

4.0 Estimates of Probable Costs and Timing for Rate Impacts

4.1 Water System

“Phase 1” – Engineering Evaluation, Hydraulic Analysis, Access Fencing – Security Assessments

Engineering Evaluations, planning, hydraulics **\$30,000.00**

Completion date assuming acquisition occurs October 2019 and MDNR review occurs in 2020.

“Phase 2” – Water Supply Upgrade (Rehab Well #2/New Well)

- Well Improvements
- Access Roads
- Fence
- Disinfection
- Line Improvements
- Monitoring/Metering Zones etc.

\$450,000.00

Completion Date Projection 2023

“Phase 3” – Line Improvements, System Expansion with Technology Upgrades **\$100,000.00**

Completion Date Projection 2025 (+/-)

4.2 Wastewater System

The wastewater system improvements are not considered “major” but maintenance items are needed as well as an engineering review on site along with other master planning. Most, if not all items, can be performed by Lake Perry staff as long as proper equipment is made available, and after a full PER is completed.

Phase 1 – Brush clearing, seeding, fence repairs, signage, sprinkler head replacement and zone valving, assuming Lake Perry staff performs construction.....\$ 10,000.00

Expected Timeline 2019 (+/-)

Phase 2 – Dosing pump upgrades, with telemetry and automation.....30,000.00

Expected Timeline 2023 (+/-)

Phase 3 – Lagoon Cell Improvements, transfer piping, aeration.....\$50,000.00

Expected Timeline 2025 (+/-)

4.3 Operations Licensing/Owner Supervised 5-year Plan

The water system operations requirements are of a “minimum” threshold for a public water system in our opinion. A Class 1 license can be obtained with educational training in classes offered by the MDNR. The two local HOA staff and/or board members have past experiences and/or ongoing operational resumes that should allow them to obtain a Class I license. As a “back –up” or as needed option the HOA can also engage a private licensed operator to oversee the HOA staff on daily checks of equipment operations (wells, disinfection, tower levels, leaks) as is currently completed by a local employee of the owner.

The wastewater system requires a Class D license in the existing NPDES permit which is in Appendix 7.09 and Appendix 7.12. This license is also provided by the MDNR through training and exam. It is not normally difficult to get and the HOA has existing local folks who are interested in getting licensed.

The new owner should develop an owner supervised 5 year plan which can include a PER with a hydraulic analysis of the entire system and options to improve the system. This would allow a local approach with minimum on going permitting.

5.0 Cursory Rate Increase Impact Recommendations

5.01 Acquisition Cost Estimates

If acquisition costs are \$300,000 (estimated) and those costs are amortized over 20 years at 5%, the annual impact and need is \$2,400.00 (+/-) in debt service. It is assured that the existing rates fully fund all current costs of operation, labor and maintenance.

Annual Debt Service for Acquisition \$2,400.00/month. (+/-)

This is only an initial point for initial feasibility and final rate assessments should be made with the HOA/new buyers project advisor.

5.02 Water System Improvements

If total costs of projected improvements are \$580,000.00 and these costs are amortized over 20 years at 5%, the debt service would be estimated at \$3,900.00/month.

Annual debt service for water improvements \$3,900.00/month. (+/-)

This is only an initial point for initial feasibility.

This is only an initial point for initial feasibility and final rate assessments should be made with the HOA/new buyer's project advisor.

5.03 Wastewater System Improvements

If total costs of projected improvements are \$90,000.00 and these costs are amortized over 20 years @ 5% the debt service would be estimated at \$600.00/month.

This is only an initial point for initial feasibility.

This is only an initial point for initial feasibility and final rate assessments should be made with the HOA/new buyer's project advisor.

Please note the aforementioned and below evaluation points are only for sensitivity and to show potential impacts. These costs may be high, and the terms and structure might be totally different once the HOA, and new entity evaluate options, finalize analysis, and make final decisions. Interest rates will depend on final underwriting.

One scenario to assist in feasibility of system revenue is to program most of the revenues and costs in the following manner.

Total estimate increase manual costs over 5 years (+/-) =

$(\$2,400.00 + \$3,900.00 + \$600.00) = \$6,900.00/\text{monthly (+/-)}$

5 year water system cost per customer (scenario) = \$4,500.00/monthly

5 year wastewater system cost per customer (scenario) = \$2,400.00/monthly

Total new monthly cost for assessment = \$6,900.00 (=/-)

Estimate Rate Impact Scenario

• **Water**

Increase initial 2,000 gallon minimum =..... \$12.57/monthly
by \$4500.00/month/358 customers.

Impact: Existing monthly rate minimum =.....\$13.23
5 year increase estimate =\$12.57

Rate Impact Estimated for Water =\$25.80/month (+/-)
for initial 2,000 gallons

• **Wastewater**

Increase "flat rate" for sewer to a 2,000 gallon minimum = \$10.26/monthly
rate \$2400.00/month/234 customers, but change \$3.58/1,000
on all usage over 2,000 gallons.

Impact: Existing monthly rate minimum =.....\$18.94/monthly
5 year increase estimate =.....\$10.26/monthly

Rate Impact Estimated for Wastewater = \$29.20/monthly
For wastewater minimum per month plus \$3.50/1,000 on all usage over 2,000 gallons.

Scenario #1: Results of an estimated 5 year water and sewer rate.

5 year potential minimum monthly rate for water =.....\$25.80 (+/-)

5 year potential minimum monthly rate for sewer =.....\$29.20 (+/-)

Note: this assumes that current audit and rates cover all current costs and therefore additional labor costs to Lake Perry HOA. Project consultant will finalize recommendations.

Please note the aforementioned rates when compared to the City of Perryville water and sewer rates. See Appendix 7.11.

6.0 Conclusions and Recommendations

The Lake Perry water and sewer systems appear to be in general regulatory compliance. Following a cursory site review and discussions with local HOA staff and evaluating initial and long term improvements, the acquisitions, operations, and improvements appear to yield very competitive and financially feasible rates.

The current owner and the systems have in place adequate rules, and regulations for connection and disconnection control if acquisition occurs by the Lake Perry driven entity being considered.

We recommend continued consultation with the HOA Attorney and Financial Consultant to develop more detailed rate impacts.

We recommend that a formal hydraulic analysis of alternatives and options for well supply improvements be conducted ASAP and incorporated into a final PER and rate study. A 5 year owner supervised plan should be developed.

We recommend that the new entity and owner train local HOA staff and engage other operators to meet MDNR operator certifications for water and wastewater systems.

Upon an initial cursory assessment we conclude that the Lake Perry lot and homeowners and all those current and future customers would be greatly served to have a locally founded "not for profit" owner/operator of the water and wastewater systems.

General Water and Sewer User Rate Review

Lake Perry is mostly a seasonal facility currently. Minimum monthly rates should be increased as needed to fund acquisition costs, legal, engineering and improvements, replacements and extensions. Disconnection, and reconnection fees should be increased and coordinated with financial advisor to insure minimum revenues and debt services are covered.

Local residential rates at Perryville for comparison with a 5,000 gallon customer show the following:

Water (Perryville)	\$15.42 (1000)
	\$ 4.67 (1000)
	\$ 4.67 (1000)
	\$ 4.67 (1000)
	<u>\$ 4.67 (1000)</u>
	\$34.10
Water (Lake Perry)	\$13.23 (2000)
	\$ 3.58 (1000)
	\$ 3.58 (1000)
	<u>\$ 3.58 (1000)</u>
	\$23.97

The states average is approximately \$45.00 - \$50.00 for smaller systems, for 5,000 gallon customers.

The local wastewater rates at Perryville for comparison with a 5,000 gallon customer use show the following:

Wastewater (Perryville)	\$11.10 (1000)
	\$ 8.49 (1000)
	\$ 8.49 (1000)
	\$ 8.49 (1000)
	<u>\$ 8.49 (1000)</u>
	\$45.06

Wastewater (Lake Perry) \$18.94 (unlimited)

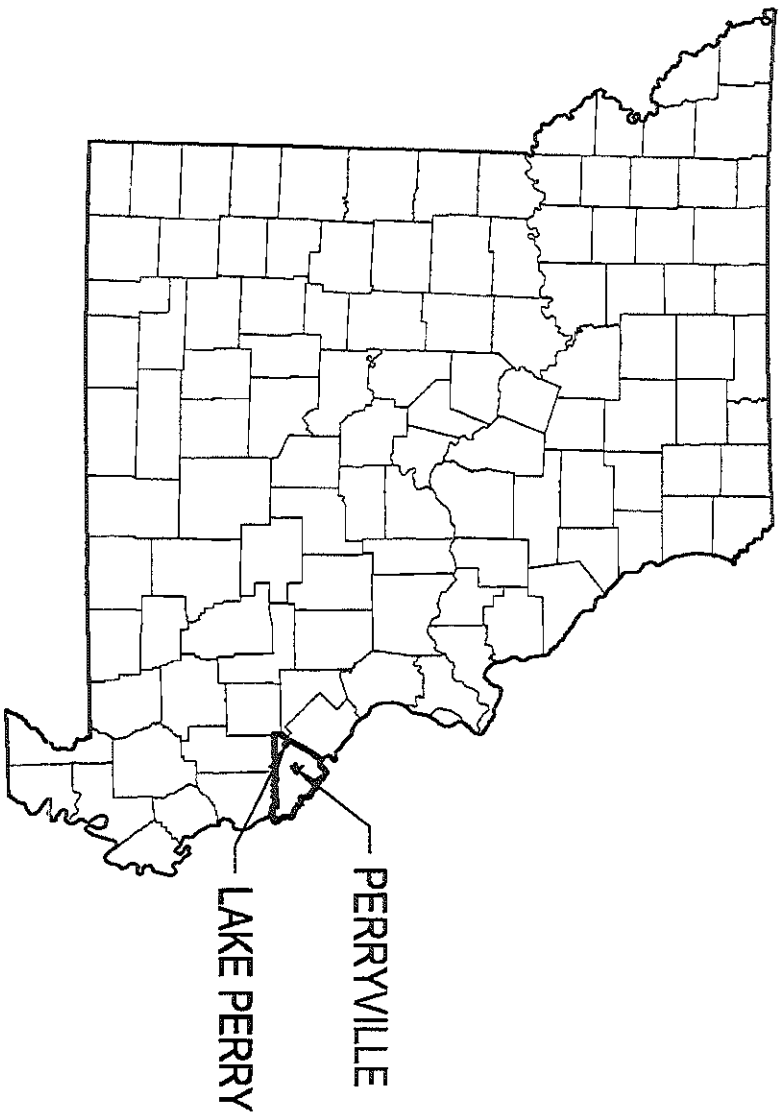
Please note this appears to be a flat rate. In the operation rules, this needs to be modernized for revenue management.

An approximate average sewer bill for smaller systems is \$45.00 - \$55.00 per month for 5,000 gallon customers.

Appendix 7.01

State Local Map

GENERAL LOCATION MAP



Appendix 7.02

Local Area Map



ISSUANCE DATE: 08/20/2018
 BY: A. PERRYVILLE
 TITLE: PORT PERRY VICINITY MAP
 SCALE: 1" = 1 MILE

PORT PERRY VICINITY MAP
 PERRYVILLE, PERRY COUNTY, MISSOURI



DWG NO: 18-001-001

PROJECT: [Blank]

DATE: 08/20/2018
 SCALE: 1" = 1 MILE

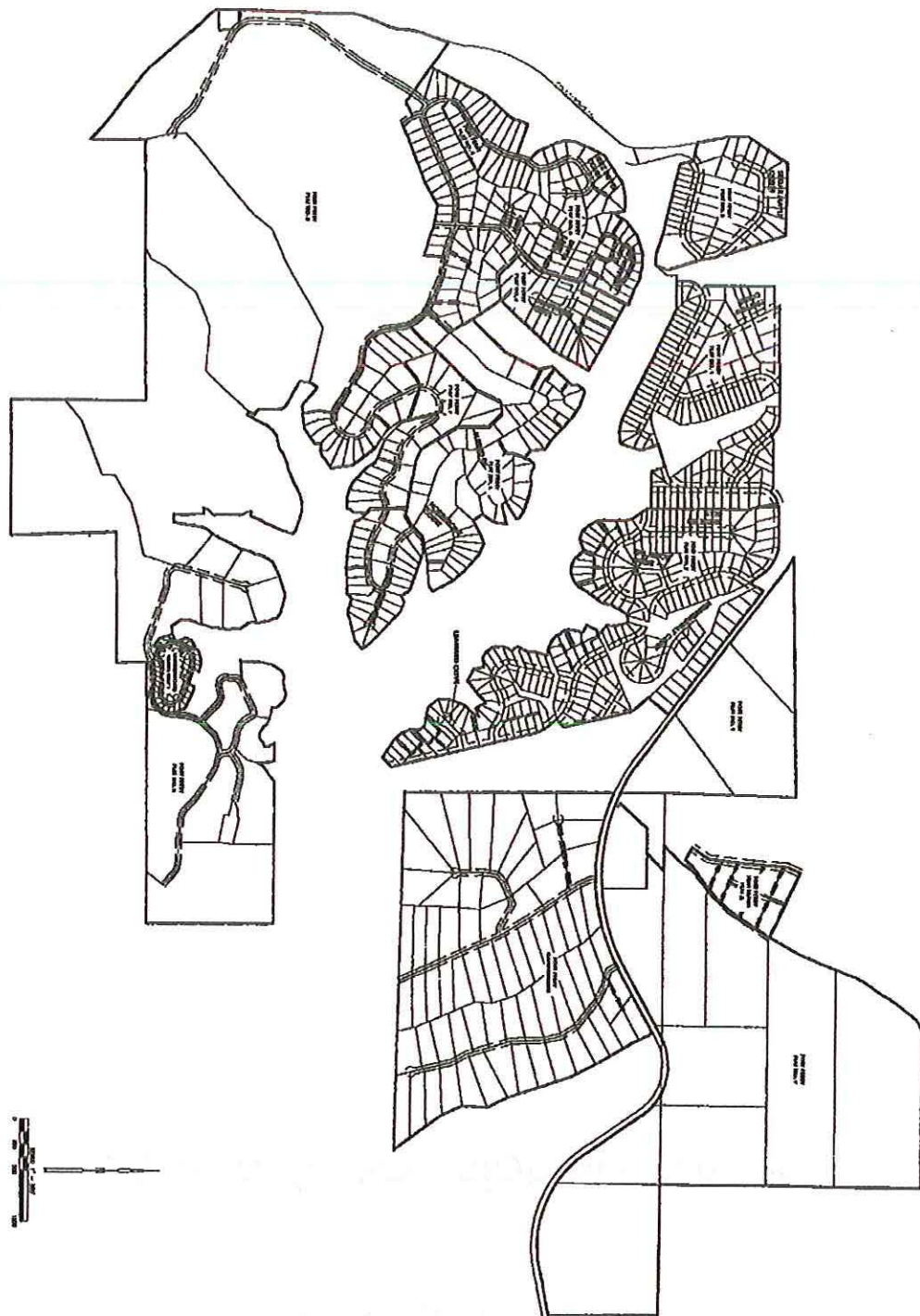
SHEET: **1**

Appendix 7.03

Service Territory Map

Appendix 7.04

General Subdivision Schematic



<p style="font-size: 24pt; font-weight: bold;">3</p>	<p style="font-size: 8pt;">DATE: _____</p> <p style="font-size: 8pt;">DRAWN BY: _____</p> <p style="font-size: 8pt;">CHECKED BY: _____</p> <p style="font-size: 8pt;">SCALE: _____</p> <p style="font-size: 8pt;">SHEET NO.: _____</p>		<p style="font-weight: bold;">PORT PERRY</p> <p style="font-weight: bold;">GENERAL SUBDIVISION SCHEMATIC</p> <p style="font-size: 8pt;">FERRYVILLE, FERRY COUNTY, MISSOURI</p>	<p style="font-weight: bold;">ALL STATES CONSULTANTS</p> <p>3001 LAMAR AVENUE, SUITE 200 COVINGTON, MISSOURI 64732 PHONE: (417) 251-1100 FAX: (417) 251-1101 WWW.ALLSTATESCONSULTANTS.COM</p>
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Appendix 7.05

Port Perry Service Company Annual Report to PSC

PORT PERRY SERVICE COMPANY

Company Full Certificated Name

*Do not abbreviate and include any Commission approved
AKA/DBA/Fictitious Name, if applicable.*

WATER and/or SEWER ANNUAL REPORT

SMALL COMPANY

(Fewer than 8,000 customers)

TO THE

MISSOURI PUBLIC SERVICE COMMISSION

January 1 - December 31, 2014

Please indicate which type of service the Company is certificated to provide by checking the appropriate box(es). *(Check all that apply.)*

Water Service Provider

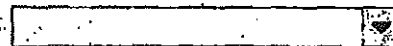
Sewer Service Provider

Please choose one of the following filing type options:

- Public Submission** *(NOT Highly Confidential)*
- Non-Public Submission** *(Highly Confidential / Filed Under Seal).*
For this filing to be considered Highly Confidential, additional submission of materials is required pursuant to Commission rule 4 CSR 240-3.335 and/or 4 CSR 240-3.640, Section 392.210, RSMo., and/or Section 393.140, RSMo.

Issue Date: 12/17 /2014

Revised: 2/5/15, 3/2/15, 3/11/15, 3/12/15, 3/16/15



(To be used when filing under seal.)

For the calendar year of January 1 - December 31, 2014

1
 2 **Company Name:** PORT PERRY SERVICE COMPANY
 2a **Parent Company Name:** _____
 (if applicable)
 3 **Company Street Address:** _____
 4 **Company Mailing Address:** PO BOX 43 PERRYVILLE MO 63775
 5 **Company Phone Number:** 573-547-6574
 6 **Company E-mail Address:** glibbaracct@outlook.com
 7 **Name, title, address, phone number, and e-mail of person(s) to contact concerning information contained in this report:**

7a	MICHAEL YAMNITZ	BRAD MOLL
7b	Name/Title 728 PCR 724	Name/Title 2101 MOLL AVENUE
7c	Mailing Address	Mailing Address
7d	Street Address PERRYVILLE MO 63775	Street Address PERRYVILLE MO 63775
7e	City State Zip Perryville MO 63775	City State Zip Perryville MO 63775
7f	Telephone Number 573-547-4132	Telephone Number 573-547-7286
7g	E-mail Address Perryville@MFAOil.com	E-mail Address meyerbus@sbcglobal.net

8 Provide the Total Company and gross Intrastate Operating Revenues (i.e., Missouri Jurisdictional) for Calendar Year 2014.



(BOTH COLUMNS MUST BE COMPLETED)

Water Revenues	MO Jurisdictional	Total Company
9 Total Operating Revenues (From Pg. W-2, Line 22)	\$ 51,790.00	\$ 51,790.00
10 Total Non-Tariffed Revenues (Pg. W-2, Line 25)	\$	
11 TOTAL REVENUES (From Pg. W-2, line 26)	\$ 51,790.00	\$ 51,790.00

(Total MO Jurisdictional Revenue (Line 11 above) should match Statement of Revenue (MOPSC Assessment).)

Sewer Revenues	MO Jurisdictional	Total Company
12 Total Operating Revenues (From Pg. S-2, Line 22)	\$ 40,247.00	\$ 40,247.00
13 Total Non-Tariffed Revenues (From Pg. S-2, Line 25)	\$	
14 TOTAL REVENUES (From Pg. S-2, Line 26)	\$ 40,247.00	\$ 40,247.00

(Total MO Jurisdictional Revenue (Line 14 above) should match Statement of Revenue (MOPSC Assessment).)

 Indicates a link to or from another worksheet within workbook
 Indicates formula cell(s)


 (To be used when filing under seal.)

For the calendar year of January 1 - December 31, 2014

1

2 Company Name: PORT PERRY SERVICE COMPANY

Describe **MAJOR** transactions occurring during the year which will have a effect on operations, such as rate changes, replacement of major equipment and other abnormal cash expenditures of \$250 or more. (Dollar amounts to be recorded on Page W-5 and/or Page S-4 columns d and/or e.)

3 NONE

4

5

6

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(To be used when filing under seal.)

Company Name: PORT PERRY SERVICE COMPANY

NOTE: Please do not try to type over formulas. Totals will calculate automatically in this spreadsheet.

BALANCE SHEET
WATER AND SEWER OPERATIONS
ASSETS

	Account Description (a)		Amount (b)	
3	Water Plant In Service (From Pg. W-5)		\$ 248,455	
4	LESS: Water Depreciation Reserve (From Pg. W-5)		\$ 226,015	
5	Net Water Plant in Service (Line 3 MINUS Line 4) (From Pg. W-5)		\$ 22,440	
6	Water Materials and Supplies			
7	Water Construction Work in Progress			
8	Water Plant Held for Future Use			
9	Water Plant Acquisition Adjustment			
10	Sewer Plant in Service (From Pg. S-4)		\$ 267,348	
11	LESS: Sewer Depreciation Reserve (From Pg. S-4)		\$ 136,931	
12	Net Sewer Plant in Service (Line 10 MINUS Line 11) (From Pg. S-4)		\$ 130,415	
13	Sewer Materials and Supplies			
14	Sewer Construction Work in Progress			
15	Sewer Plant Held for Future Use			
16	Sewer Plant Acquisition Adjustment			
17	Other Plant			
18	Cash		\$ 3,922	
19	Accounts Receivable (i.e., Amounts due from customers or other parties.)		\$ 4,027	
20	Other Assets			
21	Total Assets*		\$ 160,804	

* Total Assets should balance with Total Equity and Liabilities on Page 5 (see instructions).
Difference between Equity & Liabilities and Assets (from Pg. 5).

- Indicates a link to another worksheet within workbook
- Indicates formula cell(s)

(To be used when filing under seal.)



Company Name: PORT PERRY SERVICE COMPANY

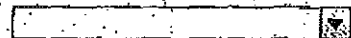
NOTE: Please do not try to type over formulas. Totals will calculate automatically in this spreadsheet.

BALANCE SHEET
WATER AND SEWER OPERATIONS
EQUITY AND LIABILITIES

	Account Description (a)	Amount (b)
3	Capital Stock (From Page 2)	\$ 167
4	Retained Earnings	\$ 34,548
5	Long-Term Debt (banks, etc.- over 1 year) (From Pg. 9)	\$ 7,839
6	Short-Term Debt (banks, etc.- less than 1 year) (From Pg. 9)	\$ 4,043
7	Water Customer Deposits	
8	Water Advances for Construction	
9	Water Contributions In Aid of Construction (From Pg. 8, Line 16)	\$ 159,637
10	LESS: Water Amortization of Contributions In Aid of Construction (From Page 8, line 23)	\$ 121,708
11	Net Water Contributions In Aid of Construction (i.e., Line 9 MINUS Line 10)	\$ 37,929
12	Sewer Customer Deposits	
13	Sewer Advances for Construction	
14	Sewer Contributions In Aid of Construction (From Pg. 8, Line 16)	\$ 160,396
15	LESS: Sewer Amortization of Contributions In Aid of Construction (From Page 8, line 23)	\$ 84,117
16	Net Sewer Contributions In Aid of Construction (i.e., Line 14 MINUS Line 15)	\$ 76,279
17	Deferred Taxes - ITC	
18	Deferred Taxes - Other	
19	Accounts Payable; (Amounts owed to other parties; other than debt listed above.)	
20	Other Liabilities	
21	Total Equity and Liabilities*	\$ 160,805

* Total Equity and Liabilities should balance with Total Assets on Pg. 4 (see Instructions).
 Difference between Equity & Liabilities and Assets (From Pg. 4).

-  Indicates a link to another worksheet within workbook
-  Indicates formula cell(s)



(To be used when filing under seal.)


EMPLOYEE PAYROLL INFORMATION

INSTRUCTIONS: Please provide names, titles and salaries for all officers and employees with W-2s. Show total compensation paid to each during the year. Include all amounts including bonuses and other allowances. Enter "0" or none where applicable. Provide explanations where necessary. Use additional sheets if necessary.

Contract Employees (i.e., 1099's or other outside parties) should not be listed on this page. (See page 7.)

	Name and Title (a)	Payroll Charged To:			
		Total Utility Compensation (b)	Water Expense (c)	Sewer Expense (d)	Capitalized Payroll (e)
3	NONE				
4					
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19	Total	\$	\$	\$	\$
			(Total to Pg. W-1)	(Total to Pg. S-1)	

Page 6

 Indicates formula cell(s)

 (To be used when filing under seal.)

PAYMENTS FOR SERVICES RENDERED BY OTHER THAN EMPLOYEES
(W-2 Employees should be listed on Page 6)


INSTRUCTIONS: Report below all information concerning rate, management, construction, engineering, research, financial, valuation, legal, accounting, purchasing, advertising, labor relations, public relations, contract operators and contract labor, or other similar professional services or outside services other than employees rendered the respondent under written or verbal arrangements, for which total payments during the year to any corporation, partnership, individual or organization of any kind whatsoever. Attach additional worksheet pages if necessary.

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2 Company Name: PORT PERRY SERVICE COMPANY

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Page 7

Name of Recipient and Description of Service (a)	Amount of Payments			
	Water		Sewer	
	Expensed (b)	Capitalized (c)	Expensed (d)	Capitalized (e)
PP4 HOLDING COMPANY				
LEGAL & ACCOUNTING	\$ 2,260		\$ 2,260	
MANAGEMENT FEES	\$ 9,980		\$ 9,980	
SUBCONTRACT LABOR	\$ 27,604		\$ 11,830	
PRIMACY FEES	\$ 953		\$ 953	
LICENSES (OPERATING PERMITS & LOC)	\$ 128		\$ 128	
PAYROLL TAXES	\$ 4,917		\$ 4,917	
Total	\$ 45,842	\$ -	\$ 30,968	\$ -
	(Total to Pg. W-1)		(Total to Pg. S-1)	

For the calendar year of January 1 - December 31, 2014.

 indicates formula cell(s)


 (To be used when filling under seal.)

Company Name: PORT PERRY SERVICE COMPANY

CONTRIBUTIONS IN AID OF CONSTRUCTION

INSTRUCTIONS: This account shall include donations or contributions in cash, services, or property for construction purposes. The records supporting the entries to this account shall be so kept that the utility can furnish information as to the purpose of each donation, the conditions, if any, upon which it was made, the amount of each donation, and the amount applicable to each utility department. The credits (deductions) to this account shall not be transferred to any other account without the approval of the Commission.

(a)	Water (b)	Sewer (c)
Balance at Beginning of Year (From last years report, Pg. 9)	\$ 152,625	\$ 155,144
PLUS: Additions During the Year (Please provide a detailed explanation.)	\$ 7,112	\$ 5,252
TAP FEES		
Total Additions	\$ 7,112	\$ 5,252
LESS: Deductions During the Year (Please provide a detailed explanation.)		
Retire and cap off service connection, but no connection fee money returned = no entry here		
Total Deductions	\$	\$
Balance at End of Year	\$ 159,637	\$ 160,396
	(Total to Pg. 5)	(Total to Pg. 5)

AMORTIZATION OF CONTRIBUTIONS IN AID OF CONSTRUCTION

(Please identify as Account Number 271A)

PLEASE CHOOSE FROM THE DROP DOWN BOX WHICH METHOD THE UTILITY UTILIZES FOR ITS RECORDS

Distribution Method

Distribution Method

(a)	Water (b)	Sewer (c)
Balance of Amortization at First of Year (not Total of CIAC line 3)	\$ 121,276	\$ 79,626
Total Contributions in Aid at End of Year (see above)	\$ 159,637	\$ 160,396
Total Plant in Service at End of Year (From Pg. W-5 or S-4)	\$ 248,455	\$ 267,348
Percentage Contributions to Plant	64.25%	60.00%
Total Depreciation Expense (From Pg. W-5 or S-4)	\$ 673	\$ 7,485
Total Amortization of Contributions (To Pg. W-1, S-1)	\$ 432	\$ 4,491
Balance at End of Year	\$ 121,709	\$ 84,117
	(Total to Pg. 5)	(Total to Pg. 5)

OR

Attached Method

(a)	Water (b)	Sewer (c)
Balance of Amortization at First of Year (not Total of CIAC Line 3)		
Total Amortization of Contributions (To Pg. W-1, S-1)		
Balance at End of Year		
	(Total to Pg. 5)	(Total to Pg. 5)

Indicates a link to another worksheet within workbook

Indicates formula cell(s)

INTEREST EXPENSE, NOTES PAYABLE, BONDS, BANK LOANS AND OTHER DEBTS

INSTRUCTIONS: Please report information for the current annual reporting year. List each separate item of debt. Please identify the named borrower for each debt, if different from the company. Show principal amount to which each interest rate applies. Include all items on which interest was paid during the year. Use additional worksheets if necessary.

Type of Debt (e.g., Note, Payable, Bonds, Bank Loans, Shareholder Loans, Affiliate Loans, etc.) (a)	Contact Information of Each Lender (Name, Address, Phone No., Email) (b)	Original Date (c)	Initial Loan Amount (d)	Interest Rate (e)	Type of Interest Rate (Fixed, Variable) (f)	Frequency of Payments (Semi-Monthly, Monthly, Quarterly, Annually, etc.) (g)	Balance of Loan at Year-End (i)		Date of Maturity (j)	Total Interest Paid During the Year (k)	Interest Paid Charged to	
							Long Term Debt (Over one year) (h)	Short Term Debt (Less than one year) (l)			Water Utility (m)	Sewer Utility (n)
3. SHARE HOLDER LOAN	MICHAEL YAMNITZ	VARIOUS	\$ 7,839	UNKN		DEMAND	\$ 7,839		UNKN	\$ -	\$ -	\$ -
4. REVOLVING LINE OF CREDIT	FIRST STATE COMMUNITY BANK	VARIOUS	\$ 10,000	VAR	VAR	MONTHLY DEMAND		\$ 4,043		\$ 41	\$ 21	\$ 21
5.												
6.												
7.												
8.												
9. Total							\$ 7,839	\$ 4,043		\$ 41	\$ 21	\$ 21

(Total to Page 9)

(Total to Pg. W-1)

(Total to Pg. S-1)

10 If the answer to column (f) is variable, please explain the method used for the interest rate calculation below with corresponding line number from above.

Page 9

 Indicates formula cell(s)

 (To be used when filing under seal.)

1
2 Company Name:



PORT PEAK SERVICE COMPANY


For the calendar year of January 1 - December 31 2014

2 Company Name: PORT PERRY SERVICE COMPANY

WATER OPERATING REVENUES, EXPENSES AND STATISTICS

	Description (a)	Amount (b)
3	Total Revenues (From Pg. W-2)	\$ 51,790
	<u>Operating Expenses</u>	
4	Salaries & Wages (From Pg. 6)	\$
6	Employee Pensions and Benefits	
6	Purchased Water	
7	Plant Operations Expenses (From Pg. W-3, Line 12)	\$ 7,853
8	Billing Expenses	\$ 1,203
9	Supplies and Expenses	\$ 2,605
10	Transportation Expenses	
11	Rent Expense	
12	Insurance Expense	\$ 1,756
13	Outside Services Employed (e.g. Legal, Accounting, etc.) (From Pg. 7)	\$ 45,842
14	Regulatory Commission Expenses	\$ 1,320
15	Uncollectible Expenses	
16	Depreciation Expense (From Pg. W-5, Line 49)	\$ 673
17	Amortization of Contributions in Aid of Construction (From Page 8)	\$ (432)
18	Amortization Expense	
19	Tax Expenses (e.g., Property, State, Federal, etc.) (From Pg. W-3, Lines 13-19)	\$ 206
20	Interest Expense (From Pg. 9)	\$ 21
21	Other Expenses	\$ 371
22	Total Operating Expenses	\$ 61,418
23	Net Income (Loss) - (A negative number indicated by (-) represents a loss.)	\$ (9,628)

-  Indicates a link to another worksheet within workbook
-  Indicates formula cell(s)


(To be used when filing under seal.)



2 Company Name: PORT PERRY SERVICE COMPANY

WATER OPERATING REVENUES, EXPENSES AND STATISTICS (Continued)

(Please indicate if metered amounts are in cubic feet measurements.)



Description (a)	No. of Customers		No. of Gallons Sold (000's Omitted) (d)	Revenue Amount (e)
	Beginning of Year (b)	End of Year (c)		
Unmetered Sales of Water				
3 Residential - Single Family			XXXX	
4 Residential - Apartments			XXXX	
5 Residential - Mobile Homes			XXXX	
6 Commercial			XXXX	
7 Other Sales to Public Authorities			XXXX	
8 Other			XXXX	
9 Total Unmetered Sales	0	0		\$
Metered Sales of Water				
10 5/8" Meter				
11 3/4" Meter	308	319	3,954,792	\$ 50,891
12 1" Meter				
13 1 1/2" Meter				
14 2" Meter				
15 Other				
16 Total Metered Sales	308	319	3,954,792	\$ 50,891
Tariffed Operating Revenues				
17 Late Payment Fees				
18 Returned Check Fees				
19 Inspection Fees				
20 Reconnect Fees				\$ 800
21 Other Revenue				\$ 99
22 Total Operating Revenues (From Tariffed Services) (To Pg. 1, Line 9)				\$ 61,790
Non Tariffed Revenues				
23 Rent Income				
24 Other Income, (e.g., from Merchandising, Jobbing & Contract Work, etc.)				
25 Total Non-Tariffed Revenues (To Pg. 1, Line 10)				\$
26 Total Revenues * (To Pg. 1, Line 11)				\$ 61,790
				(Total to Pg. W-1 and Pg. 1)

* Total Operating Revenues should match Statement of Revenue (MOPSC Assessment).

-  Indicates a link to another worksheet within workbook
-  Indicates formula cell(s)

WATER OPERATING REVENUES, EXPENSES AND STATISTICS (Continued)

Description of Expenses (a)	Amount (b)
<u>Plant Operations Expenses</u>	
3 Repairs of Water Plant - Pump Repair	
4 Repairs of Water Plant - Well Repair	\$ 2,935
5 Repairs of Water Plant - Water Line Repair	
6 Repairs of Water Plant - Equipment Repair	
7 Repairs of Water Plant - Other	
8 Fuel or Power Purchases for Pumping (i.e., Electric Bills, etc.)	\$ 4,918
9 Chemicals	
10 Water Testing Expenses	
11 Other Plant Operations Expenses	
12 Total Plant Operations Expenses	\$ 7,853
	(Total to Page W-1)
<u>Tax Expenses</u>	
13 Tax Expense - Property Taxes	\$ 206
14 Tax Expense - Payroll Taxes	
15 Tax Expense - Franchise Taxes	
16 Tax Expense - Other Taxes	
17 Tax Expense - Federal Income Taxes	
18 Tax Expense - State Income Taxes	
19 Tax Expense - Investment Tax Credits	
20 Total Tax Expenses	\$ 206
	(Total to Pg. W-1)

-  Indicates a link to another worksheet within workbook
-  Indicates formula cell(s)



(To be used when filing under seal.)

PUMPING AND PURCHASED WATER STATISTICS

(Omit 000's in reporting number of gallons or cubic feet of water. Use additional sheets if necessary.)

GALLONS PUMPED INTO SYSTEM					
Please indicate measurements given are in gallons or cubic feet by choosing from the dropdown box.					Gallons
SERVICE MONTHS (Number of gallons pumped per month) (a)	SOURCE OF SUPPLY (Please name each source below in columns b-e (i.e. Well #1, etc.))				TOTAL OF ALL METHODS (b+c+d+e=f) (f)
	WELL #1 (b)	(c)	(d)	(e)	
JANUARY	247,900				247,900
FEBRUARY	214,180				214,180
MARCH	198,380				198,380
APRIL	222,040				222,040
MAY	302,552				302,552
JUNE	286,050				286,050
JULY	419,330				419,330
AUGUST	349,510				349,510
SEPTEMBER	546,500				546,500
OCTOBER	590,490				590,490
NOVEMBER	295,050				295,050
DECEMBER	282,800				282,800
Totals for Year	3,954,792	0	0	0	3,954,792

18 Maximum Quantity Supplied to the System in Any One Day: Minimum:

19 Range of Pressure In the Mains as Measured at the Highest Point on System:

If Water is Sold to Other Utilities for Resale, List Names, Addresses, Phone Numbers and Quantities Below.

Name of Reseller	Address	Phone Number	Quantity

Page W-4

Indicates a link to another worksheet within workbook
 Indicates formula cell(s)

(To be used when filing under seal.)

2 Company Name: PORT PERRY SERVICE COMPANY
 1 For the calendar year of January 1 - December 31, 2014

2 Company Name:

PORT PERRY SERVICE COMPANY

WATER UTILITY PLANT IN SERVICE

DEPRECIATION EXPENSES AND RESERVE - WATER UTILITY PLANT

Account Description (A)	Account No. (B)	Plant Balance at Beginning of Year (C)	Additions During the Year (D)	Book Cost of Plant Retired* (E)	Cost of Removal* (F)	Salvage Credit* (G)	Plant Balance at End of Year (C+D-E) (H)	Reserve Balance at Beginning of Year (I)	Annual Depreciation Rate % (J)	Depreciation Expense** J*(C+H)/2 (K)	Reserve Balance at END of Year (I-E-F+G+K) (L)
<u>Intangible Plant</u>											
	Class B, C or D										
3 Organization	301						0				
4 Franchise and Consents	302						0				
5 Miscellaneous Intangible Plant	303						0				
<u>Source of Supply Plant</u>											
6 Land and Land Rights	310						0				
7 Structures and Improvements	311						0				
8 Collecting & Impounding Reservoirs	312						0				
9 Lake, River, and Other Intakes	313						0				
10 Wells and Springs	314						0				
11 Infiltration Galleries and Tunnels	315						0				
12 Supply Mains	316						0				
13 Other Water Source Plant	317						0				
<u>Pumping Plant</u>											
14 Land and Land Rights	320						0				0
15 Structures and Improvements	321	1,550	0	0	0	0	1,550	1,550	0.00%	0	1,550
16 Boiler Plant Equipment	322						0				0
17 Other Power Production Equipment	323						0				0
18 Submersible Electric Pumping	325.1	1,768	0	0	0	0	1,768	1,588	10.00%	176	1,764
19 High Service or Booster Pumps	325.2						0				0
20 Diesel Pumping Equipment	326						0				0
21 Hydraulic Pumping Equipment	327						0				0
22 Other Pumping Equipment	328						0				0

1

2 Company Name:

PORT PERRY SERVICE COMPANY

WATER UTILITY PLANT IN SERVICE

DEPRECIATION EXPENSES AND RESERVE - WATER UTILITY PLANT

Account Description (A)	Account No. (B)	Plant Balance at Beginning of Year (C)	Additions During the Year (D)	Book Cost of Plant Retired* (E)	Cost of Removal* (F)	Salvage Credit* (G)	Plant Balance at End of Year (C+D-E) (H)	Reserve Balance at Beginning of Year (I)	Annual Depreciation Rate % (J)	Depreciation Expense** (K) (C+H)/2	Reserve Balance at END of Year (I-E-F+G+K) (L)
<u>Water Treatment Plant</u>											
23 Land and Land Rights	330						0				0
24 Structures and Improvements	331						0				0
25 Water Treatment Equipment	332						0				0
<u>Transmission & Distribution Plant</u>											
26 Land and Land Rights	340						0				0
27 Structures and Improvements	341						0				0
28 Distribution Reservoirs & Standpipes	342						0				0
29 Transmission & Distribution Mains	343	219,294	0	0	0	0	219,294	219,293	2.00%	0	219,293
30 Fire Mains	344						0				0
31 Services	345	25,843	0	0	0	0	25,843	2,911	2.00%	497	3,408
32 Meters	346						0				0
33 Meter Installations	347						0				0
34 Hydrants	348						0				0
35 Other Transmission & Distribution Plant	349						0				0
<u>General Plant - (Class B&C are Same)</u>											
	B & C	D.									
36 Land and Land Rights	389	370					0				0
37 Structures and Improvements	390	371					0				0
38 Office Furniture and Equipment	391	372					0				0
39 Office Computer & Electronic Equipment	391.1	372.1					0				0
40 Transportation Equipment	392	373					0				0
41 Other General Equipment	none	379					0				0
42 Stores Equipment	393	none					0				0

1



2 Company Name:

PORT PERRY SERVICE COMPANY

WATER UTILITY PLANT IN SERVICE

DEPRECIATION EXPENSES AND RESERVE - WATER UTILITY PLANT

Account Description (A)	Account No. (B)		Plant Balance at Beginning of Year (C)	Additions During the Year (D)	Book Cost of Plant Retired* (E)	Cost of Removal** (F)	Salvage Credit** (G)	Plant Balance at End of Year (C+D-E) (H)	Reserve Balance at Beginning of Year (I)	Annual Depreciation Rate % (J)	Depreciation Expense** J*(C+H)/2 (K)	Reserve Balance at END of Year (I-E-F+G+K) (L)
43 Tools, Shop and Garage Equipment	394	none						0				0
44 Laboratory Equipment	395	none						0				0
45 Power-operated Equipment	396	none						0				0
46 Communication Equipment	397	none						0				0
47 Miscellaneous Equipment	398	none						0				0
48 Other Tangible Property	399	none						0				0
49 Total Water Utility Plant In Service	Totals		248,455	0	0	0	0	248,455	225,342		673	226,015
								(Total to Pages 4 & 9)		(Total to Pg.8)		(Total to Pg.4)

-  Indicates a link to another worksheet within workbook
-  Indicates formula cell(s)

(To be used when filing under seal.)

- * All entries included in Columns "E", "F" and "G" should be supported by records that identify the property retired and the cost of removal or salvage in detail.
- ** Annual Depreciation Expense should be calculated based upon actual in-service and retirement date(s) of new equipment and retirements during the period.
- ** The depreciation expense formula provided is only an approximation assuming all activity for the year occurred mid year.

NOTE: All entries should be supported by records that identify the property being added or retired, its location, and its original cost in as much detail as reasonably possible. If adjustments are included in Columns "E", "F" and/or "G" use additional sheets.

1
2 Company Name:

PORT PERRY SERVICE COMPANY

For the calendar year of January 1 - December 31, 2014

PUMP INFORMATION

Pump Manufacturer (a)	Type of Pump (i.e., High Service, Well, Standby, etc.) (b)	Capacity (c)	Date Installed (d)	Date of Last Motor Replacement (e)	Date of Last Pump Replacement (f)
3 WELL #1 56-T-902016 6" 20HP	HIGH SERVICE	90 GPM	6/3/11	6/3/11	6/3/11
4 WELL #2 G RENDIOUS #23053009	STANDBY	1230 GPM	5/19/06	5/19/06	5/19/06
5					
6					
7					
8					
9					
10					
11					
12					

Page W-6 (Pt. 1)

(To be used when filing under seal.)

1

For the calendar year of January 1 - December 31, 2014

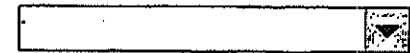
2 Company Name:

PORT PERRY SERVICE COMPANY

WELL INFORMATION

3 Description of Wells (a)	Well ID#/ Location	Well ID#/ Location	Well ID#/ Location	Well ID#/ Location
	#1	#2		
	DEEP	DEEP		
	(b)	(c)	(d)	(e)
4 Year Constructed	1973	1986		
5 Type of Construction	ROTARY	ROTARY		
6 Type and Depth of Casing	STEEL 740	STEEL 1050		
7 Depth and Diameter of Well	740' 6"	1050' 10"		
8 Yield of Well in Gallons per day	31500 AVG	NOT IN USE		
<u>Chemicals</u>				
9 Type -				
10 Annual Cost -				
11 Annual Quantity -				

Page W-6 (Pt 2)



(To be used when filing under seal.)

METERS AND METER SETTINGS

Customer Class (a)	Meter Size (b)	Total at Beginning of Year (c)	Total Number of Additions (d)	Total Number Removed or Disconnected (e)	Total at End of Year (f)
3 Residential:					
4	3/4"	308	11	0	319
5					0
6					0
7 Other Customers:					
8	1.5	2	0	0	2
9					0
10 Total in Use by Customers		310	11	0	321
11 Not in Use: (i.e., Inventory)					
12					0
13					0
14 Total Meters		310	11	0	321

STORAGE FACILITIES

Type of Storage (i.e., Pneumatic, Ground, Standpipes, Elevated Tanks, etc.) (a)	Construction Material (b)	Last Date Painted if Applicable (indicate interior or exterior) (c)	Capacity (d)
15 ELEVATED TANK	16 STEEL	17 01/01/04	18 223000 GAL
19			

☐ indicates formula cell(s)

☐
(To be used when filling under seal.)

	Kind of Pipe (i.e., Cast Iron, Galvanized Iron, PVC, etc.) (a)	Diameter of Pipe (b)	Total at Beginning of Year (c)	Total Additions During the Year (d)	Total Removed or Abandoned During the Year (e)	Total at End of Year (f)
3	PLASTIC PVC	4'	19,920		-	19,920
4	" " "	3'	4,060		-	4,060
5	" " "	2'	8,960		-	8,960
6	" " "	1'	2,720	1,100	-	3,820
7	" " "	6"	1,160		-	1,160
8						0
9						0
10						0
11						0
12						0
13						0
14						0
15						0
16	Total Mains		36,820	1,100	0	37,920

SERVICE CONNECTIONS AVAILABLE FOR USE (from Main to Property Line)

	Size and Type of Material (i.e., Iron, Copper, PVC, etc.) (a)	Total No. at Beginning of Year (b)	Total No. of Additions (c)	Total No. Retired or Abandoned (d)	Total No. at End of Year (e)
	In Use:				
15	PLASTIC PVC	310	11	0	321
16					0
17					0
18					0
	For Future Use:				
19	PLASTIC PVC	18		0	18
20					0
21					0
22					0
23	Total of All Services	328	11	0	339

Page W-8

Indicates formula cell(s)



(To be used when filing under seal.)

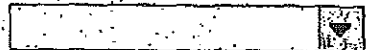
1

2 Company Name: PORT PERRY SERVICE COMPANY

SEWER OPERATING REVENUES, EXPENSES AND STATISTICS

	Description (a)	Amount (b)
3	Total Revenues (From Page S-2)	\$ 40,247
	Operating Expenses	
4	Salaries & Wages (From Pg. 6)	\$
5	Employee Pensions and Benefits	
6	Purchased Water	
7	Plant Operations Expenses (From Pg. S-3)	\$ 6,236
8	Billing Expenses	\$ 1,204
9	Supplies and Expenses	\$ 1,737
10	Transportation Expenses	
11	Rent Expense	
12	Insurance Expense	\$ 1,338
13	Outside Services Employed (e.g., Legal, Accounting, etc.) (From Pg. 7)	\$ 30,068
14	Regulatory Commission Expenses	\$ 1,320
15	Depreciation Expense (From Pg. S-4)	\$ 7,485
16	Amortization of Contributions in Aid of Construction (From Pg. 8)	\$ (4,491)
17	Amortization Expense	
18	Tax Expenses (From Pg. S-3)	\$ 206
19	Interest Expense (From Pg. 9)	\$ 21
20	Other Expenses	\$ 371
21	Total Operating Expenses	\$ 44,495
22	Net Income (Loss) - (A negative number indicated by () represents a loss.)	\$ (4,248)

 Indicates a link to another worksheet within workbook
 Indicates formula cell(s).

 (To be used when filing under seal.)



2 Company Name: PORT PERRY SERVICE COMPANY

SEWER OPERATING REVENUES, EXPENSES AND STATISTICS (Continued)

(Please indicate if metered amounts are in cubic feet measurements.)

Description of Revenues (a)	No. of Customers		No. of Gallons Sold (000's Omitted) (d)	Revenue Amount (e)
	Beginning of Year (b)	End of Year (c)		
<u>Flat Rate Sales</u>				
3 Residential - Single Family	130	135	XXXX	\$ 40,247
4 Residential - Apartments			XXXX	
5 Residential - Mobile Homes			XXXX	
6 Commercial			XXXX	
7 Other Sales to Public Authorities			XXXX	
8 Other			XXXX	
9 Total Unmetered Sales	130	135	XXXX	\$ 40,247
<u>Metered Sales Based on Gallon Usage</u>				
10 Residential - Single Family				
11 Residential - Apartments				
12 Residential - Mobile Homes				
13 Commercial				
14 Other Sales to Public Authorities				
15 Other				
16 Total Metered Sales	0	0	0	\$ -
<u>Tariffed Operating Revenues</u>				
17 Late Payment Fees				
18 Returned Check Fees				
19 Inspection Fees				
20 Reconnect Fees				
21 Other Revenue				
22 Total Operating Revenues (From Tariffed Services) (To Pg. 1, Line 12)				\$ 40,247
<u>Non-Tariffed Revenues</u>				
23 Rent Income				
24 Other Income (e.g., from Merchandising, Jobbing & Contract Work, etc.)				
25 Total Non-Tariffed Revenues (To Pg. 1, Line 13)				\$ -
26 Total Revenues * (To Pg. 1, Line 14)				\$ 40,247
				(Totals to Pg. 1, Pg. S-1)

* Total Revenues should match Statement of Revenue (MOPSC Assessment).

-  Indicates a link to another worksheet within workbook
-  Indicates formula cell(s)


(To be used when filing under seal.)

1

2 Company Name: PORT PERRY SERVICE COMPANY

SEWER OPERATING REVENUES, EXPENSES AND STATISTICS (Continued)

Description (a)	Amount (b)
<u>Plant Operations Expenses</u>	
3 Contracted Maintenance Expenses	
4 Repairs of Sewer Plant - Pump Repair	
5 Repairs of Sewer Plant - Treatment Repair	\$ 1,957
6 Repairs of Sewer Plant - Collecting Sewers and Manhole Repair	
7 Repairs of Sewer Plant - Equipment Repair	
8 Repairs of Sewer Plant - Other	
9 Utility Bills	\$ 3,279
10 Chemicals	
11 Sludge Hauling Expenses	
12 Effluent Testing Expenses	
13 Other Plant Operations Expenses	
14 Total Plant Operations Expenses	\$ 5,236
	(Total to Pg. S-1)
<u>Tax Expenses</u>	
15 Tax Expense - Property Taxes	
16 Tax Expense - Payroll Taxes	\$ 206
17 Tax Expense - Franchise Taxes	
18 Tax Expense - Other Taxes	
19 Tax Expense - Federal Income Taxes	
20 Tax Expense - State Income Taxes	
21 Tax Expense - Investment Tax Credits	
22 Total Tax Expenses	\$ 206
	(Total to Pg. S-1)

 Indicates formula cell(s)



(To be used when filing under seal.)

1

2 Company Name: PORT PERRY SERVICE COMPANY

SEWER UTILITY PLANT IN SERVICE

DEPRECIATION EXPENSES AND RESERVE - SEWER UTILITY PLANT

Account Description (A)	Acct No. (B)		Plant Balance at Beginning of Year (C)	Additions During the Year (D)	Book Cost of Plant Retired (E)	Cost of Removal (F)	Salvage Credit (G)	Plant Balance at End of Year (C+D-E) (H)	Reserve Balance at Beginning of Year (I)	Annual Depreciation Rate % (J)	Depreciation Expense** J*(C+H)/2 (K)	Reserve Balance at END of Year (I-E F+G+K) (L)
	Class B, C or D											
<u>Intangible Plant</u>												
3 Organization	301	301						0				
4 Franchise and Consents	302	302						0				
5 Miscellaneous Intangible Plant	303	303						0				
<u>Land & Structures</u>												
6 Land and Land Rights	none	310						0				
7 Structures and Improvements	none	311						0				
<u>Collection Plant</u>												
8 Land and Land Rights	350	none						0				
9 Structures and Improvements	351	none						0				
10 Collection Sewer - Force	352	352.1	156,770	0	0	0	156,770	83,039	2.66%	4,484	87,521	
11 Collection Sewer - Gravity	352	352.2					0					
12 Other Collection Plant Facilities	353	353					0					
13 Services to Customers	354	354	18,788	0	0	0	18,788	2,254	2.00%	376	2,632	
14 Flow Measuring Devices	355	355					0					
<u>Pumping Plant</u>												
15 Land and Land Rights	360	none					0					
16 Structures and Improvements	361	none					0					
17 Receiving Wells and Pump Pits	362	362					0					
18 Other Pumping Equipment	363	363					0					
<u>Treatment & Disposal</u>												
19 Land and Land Rights	370	none					0					
20 Structures and Improvements	371	none					0					
21 Oxidation Lagoon	none	372					0					
22 Treatment & Disposal Equipment	372	373					0					

1



2 Company Name:

PORT PERRY SERVICE COMPANY

SEWER UTILITY PLANT IN SERVICE

DEPRECIATION EXPENSES AND RESERVE - SEWER UTILITY PLANT

Account Description (A)	Abct. No. (B)	Plant Balance at Beginning of Year (C)	Additions During the Year (D)	Book Cost of Plant Retired* (E)	Cost of Removal** (F)	Salvage Credit** (G)	Plant Balance at End of Year (C+D-E) (H)	Reserve Balance at Beginning of Year (I)	Annual Depreciation Rate % (J)	Depreciation Expense** J*(C+H)/2 (K)	Reserve Balance at END of Year (I-E-F+G+K) (L)
	Class B-C or D										
23 Sewer Collection (Septic) Tanks	372	373.1					0				
24 Plant Sewer	373	374					0				
25 Outfall Sewer Lines	374	375					0				
26 Equipment	375	376	91,788	0	0	0	91,788	44,153	2.00%	2,625	46,771
General Plant											
27 Land and Land Rights	389	none					0				
28 Structures and Improvements	390	none					0				
29 Office Furniture and Equipment	391	391					0				
30 Office Computer & Electronic Equipment	391	391.1					0				
31 Transportation Equipment	392	392					0				
32 Other General Equipment	none	393					0				
33 Stores Equipment	393	none					0				
34 Tools, Shop and Garage Equipment	394	none					0				
35 Laboratory Equipment	395	none					0				
36 Power-operated Equipment	396	none					0				
37 Communication Equipment	397	none					0				
38 Miscellaneous Equipment	398	none					0				
39 Total Sewer Utility Plant in Service	Totals	267,346	0	0	0	0	267,346	44,153		7,485	136,931
							(Total to Pages 4 & 5)	(Total to Pg. 8)	(Total to Pg. 8 & Pg. S-1)		(Total to Pg. 4)

-  Indicates a link to another worksheet within work
-  Indicates formula cell(s)

(To be used when filling under seal.)

- * All entries included in Columns "E", "F" and "G" should be supported by records that identify the property retired and the cost of removal or salvage in detail.
- ** Annual Depreciation Expense should be calculated based upon actual in-service and retirement date(s) of new equipment and retirements during the period.
- *** The depreciation expense formula provided is only an approximation assuming all activity for the year occurred mid year.

NOTE: All entries should be supported by records that identify the property being added or retired, its location, and its original cost in as much detail as reasonably possible. If adjustments are included in Columns "E", "F" and/or "G", use additional sheets.

2 Company Name: PORT PERRY SERVICE COMPANY

GENERAL INFORMATION

3 Type of Treatment Facilities - Please describe (e.g., lagoon, mechanical or sand filter) and list all that apply.

LAGOON, EVAPORATION, AND LAND APPLICATION

4 What is the designed capacity of each treatment facility?

.074 MGD

6 What percent of designed capacity of each facility is currently being utilized?

.010 MGD

8 Did the company pump and haul the sludge? If no, provide the name of the third party providing service.

NO. IRRIGATING LAGOON (COMPANY IRRIGATES LAGOON)

7 What is the ultimate disposal of waste solids (e.g. land application, disposal at qualified facility, etc.)?

SOLID WASTE FACILITIES IN NEARBY PERRYVILLE MO; WILL CONTACT IF NEEDED

8 List any equipment failures occurring during the year. Please state when failure occurred and briefly describe the failure and corrective measures taken; major item(s) (problem(s) fixed was/were over \$250 as listed on page 3).

NONE

COLLECTING SEWERS (measurement in feet)

	Kind of Pipe (i.e. Cast Iron, VCP, PVC, etc.) (a)	Diameter of Pipe (b)	Total No. at Beginning of Year (c)	Total No. of Additions During the Year (d)	Total No. Removed or Abandoned During the Year (e)	Total No. at End of Year (f)
9	Force:					0
10	SCHEDULE 40	4"	20,500	0	0	20,500
11	Gravity:					0
12	"	2.5"	1,245	0	0	1,245
13	"	2.0"	15,045	0	0	15,045

LIFT STATIONS

	Pumps: Name, Size, Type	Location	H.P.	GPM	TDH
14	KOVARIK ANEROBE PUMPS	VARIOUS		67010	
15					
16					
17					
18					
19					

SLUDGE

(If you have more than five (5) hauls during the year, only list the total annual amount.)

	Date of Haul	Facility/Location	No. of Gallons Hauled	Rate Per Gallon	Total Cost of Removal (Include Extra Charges)
20		DOES NOT APPLY			
21					
22					
23					
24					
				Total Cost	\$

Indicates a formula cell

(To be used when filing under seal.)

VERIFICATION

The foregoing report must be verified by the oath of the President, Treasurer, General Manager or Receiver of the company. The oath required may be taken before any person authorized to administer an oath (Notary Public) by the laws of the State in which the same is taken.

OATH

State Of

Missouri

County Of

Ste Genevieve

ss:

Michael Yamnitz
Name of Affiant (Company Official/Representative)

makes oath and says that

s/he is

MICHAEL YAMNITZ
Official Title of the Affiant (Company Official/Representative)

of

PORT PERRY SERVICE COMPANY
Exact Legal Title or Name of the Respondent (Certificated Company Name)

and is located at

PO BOX 43 PERRYVILLE MO 63775 573-547-6574
Address and Telephone Number of the Affiant (Company Official/Representative)

that s/he has examined the foregoing report; that to the best of his or her knowledge, information, and belief, all statements of fact contained in the said report are true and the said report is a correct statement of the business and affairs of the above-named respondent.

from

January 1, 2014, to and including December 31, 2014
Month/Day Year Month/Day Year

[Signature]
Signature of Affiant (Company Official/Representative)
(If electronic signatures are used, you must use "/s/" before the name.)

Subscribed and sworn to before me, a Notary Public, in and for the State and County above named,

this 8th day of June, 2015

My Commission expires

January 5, 2007

JUDY A. RICHARDET

Notary Public - Notary Seal
STATE OF MISSOURI
St. Genevieve County
Commission #12486884

My Commission Expires: January 5, 2017

[Signature]

Signature of Notary Public
(If electronic signatures are used, you must use "/s/" before the name.)

Missouri Revised Statutes § 392.210 or §393.140

See the Instructions tab for more information to complete this page.

Appendix 7.06

Lake Perry Pictures of Site Inspection



Irrigation head for Wastewater Disposal (typical)



Cell 4 of Lagoon and Irrigation Intake



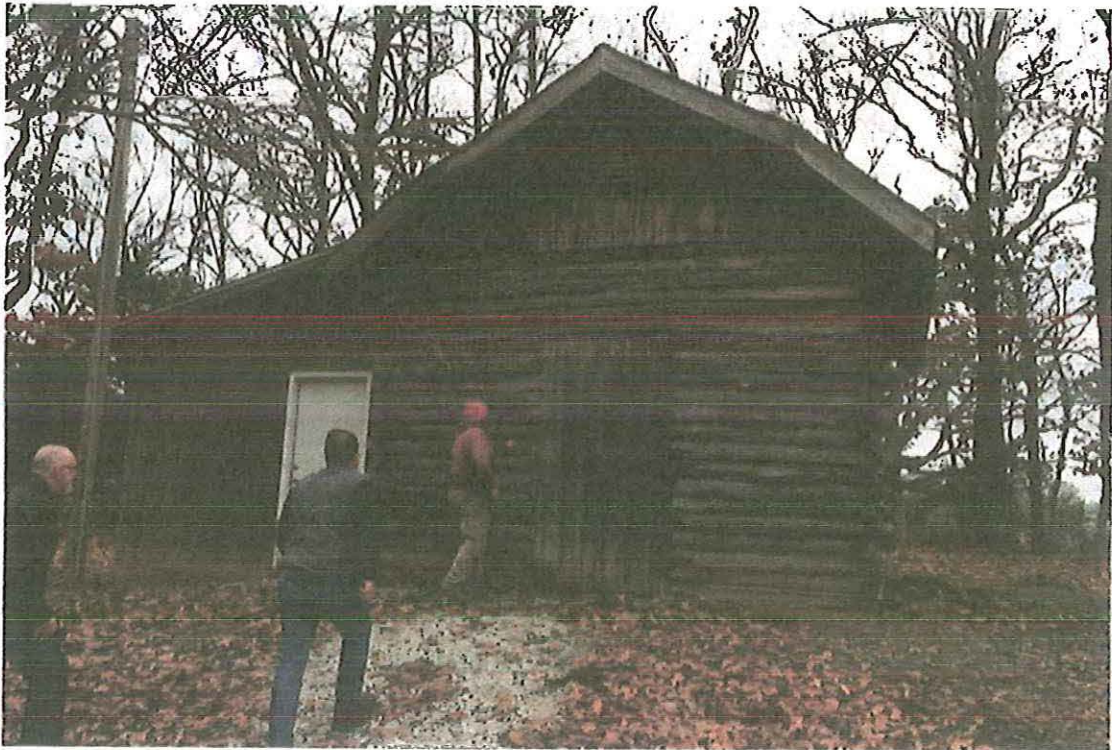
Lagoon trees that need removed/irrigation pump house



Lagoon Brush



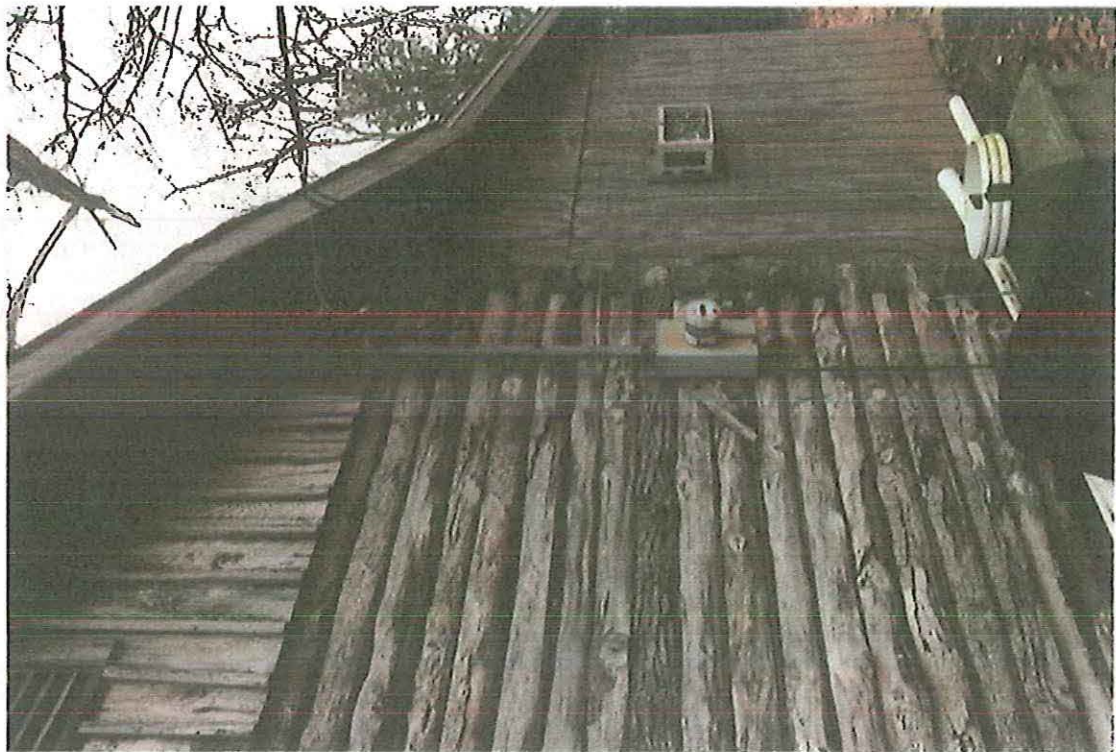
Well #2 open Well Head



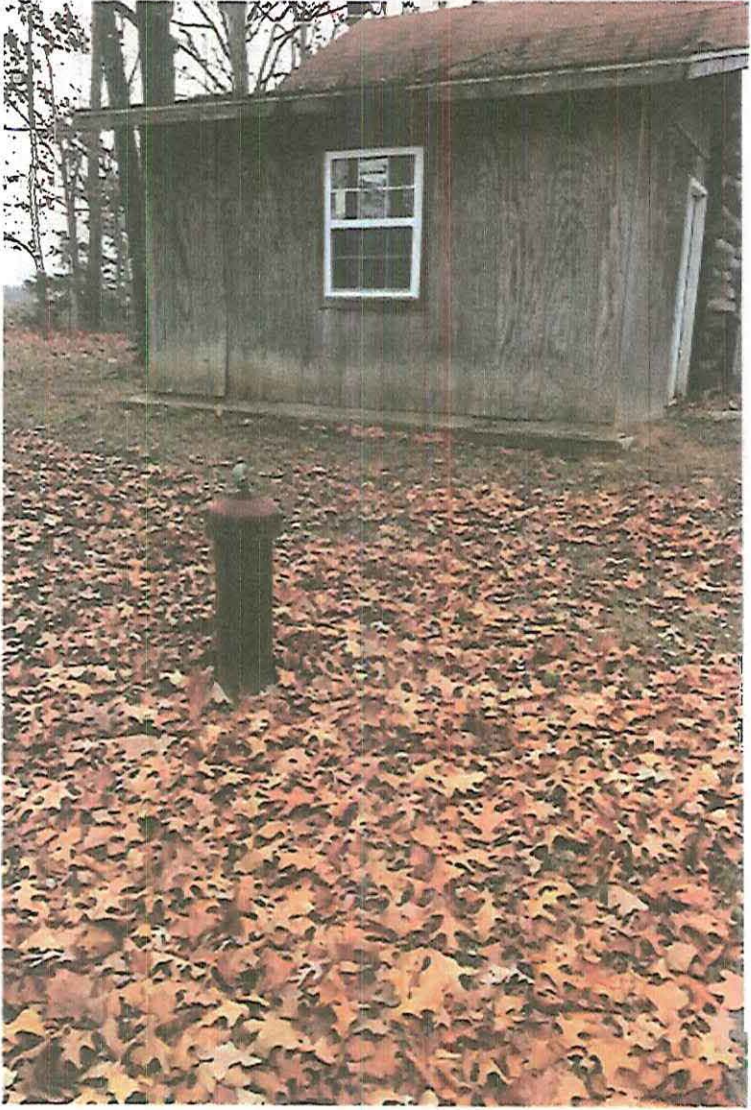
Well #1 Well House



The log cabin building



Log cabin



Well #1 Head

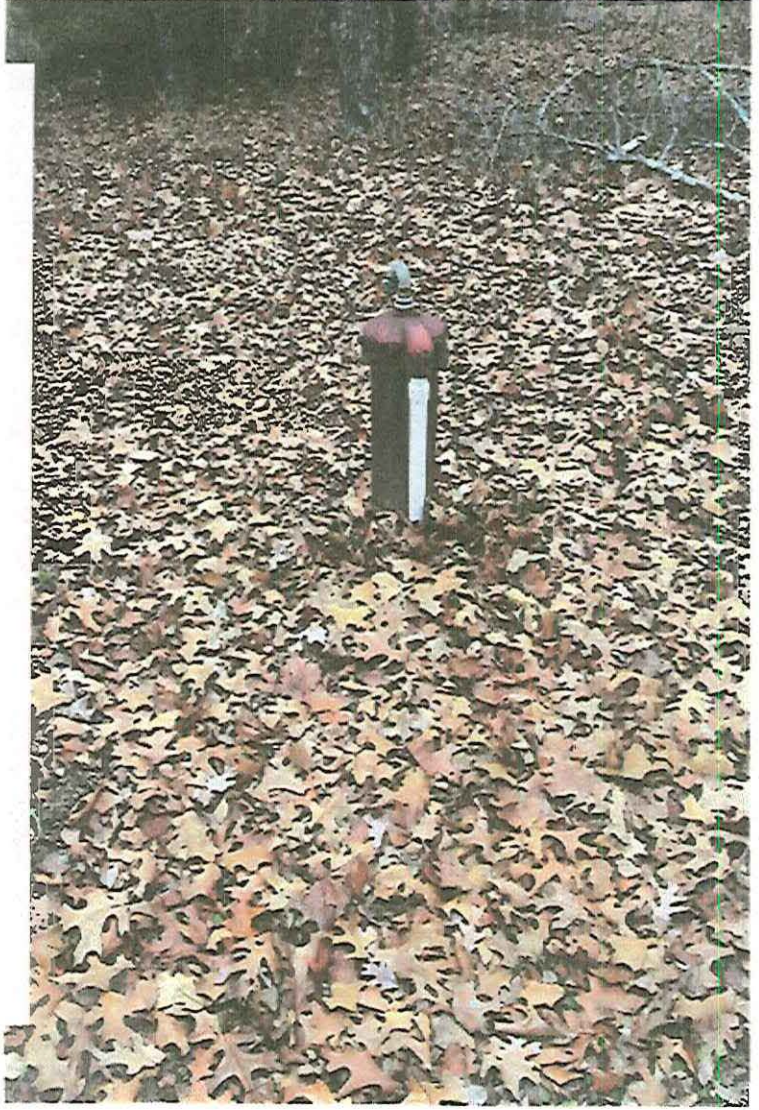




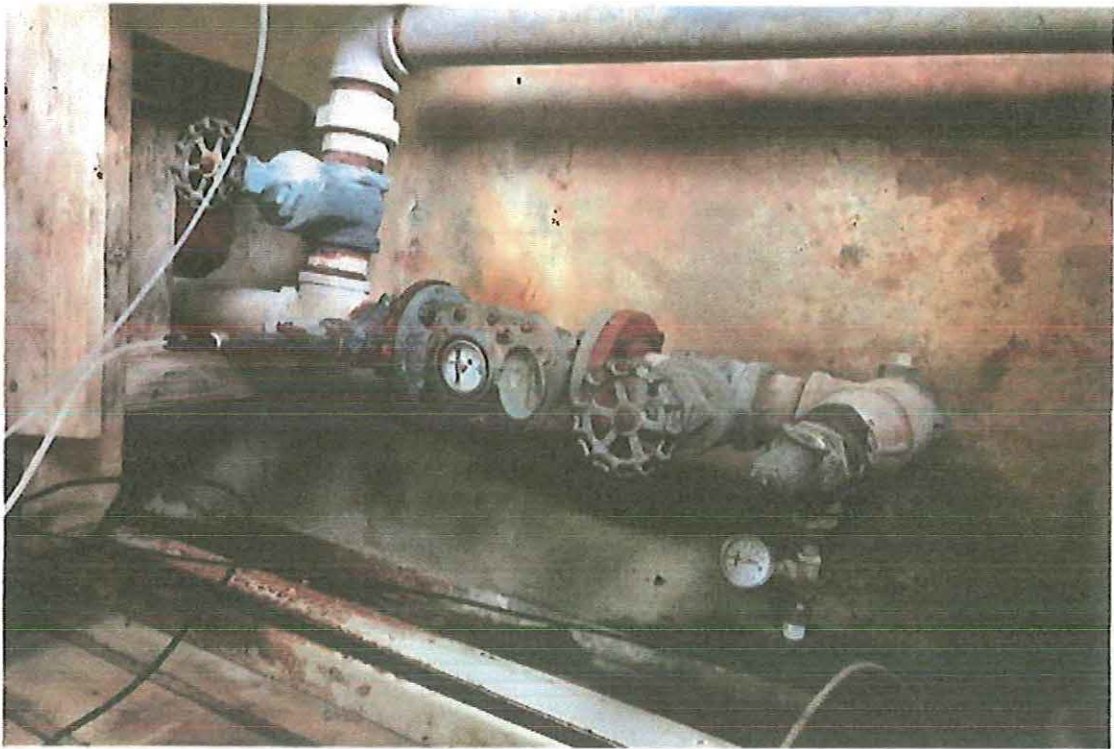
Photo 1 of 2



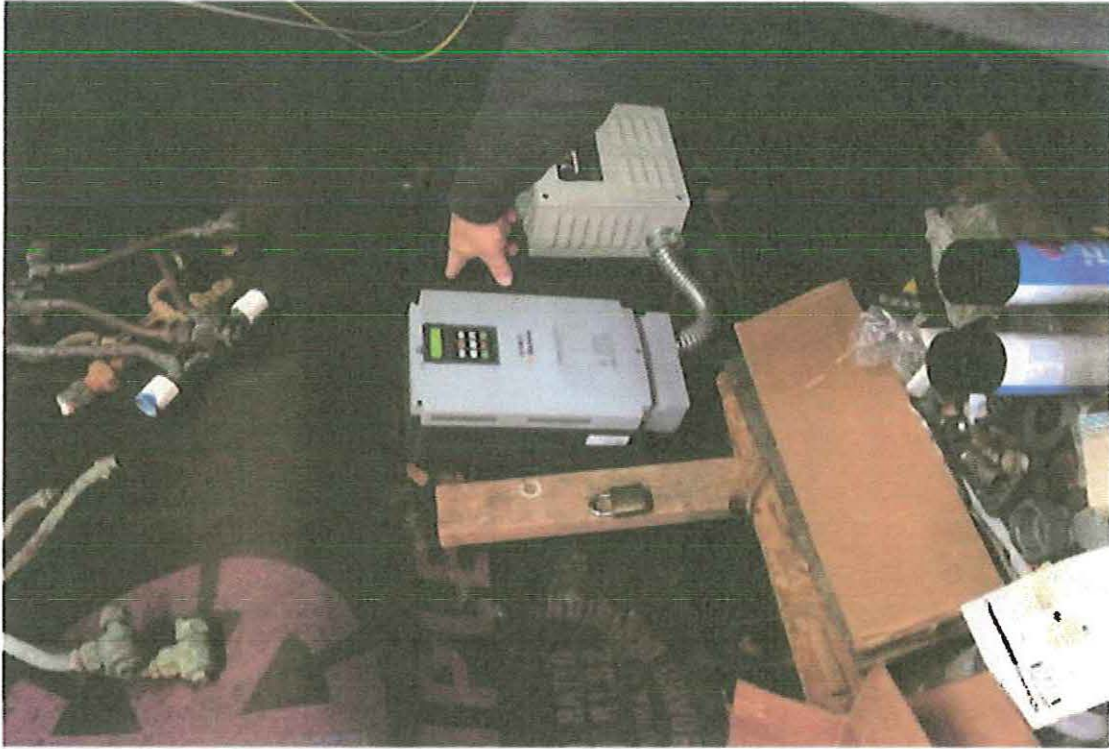
Well #1 Interior



Liquid Disinfection



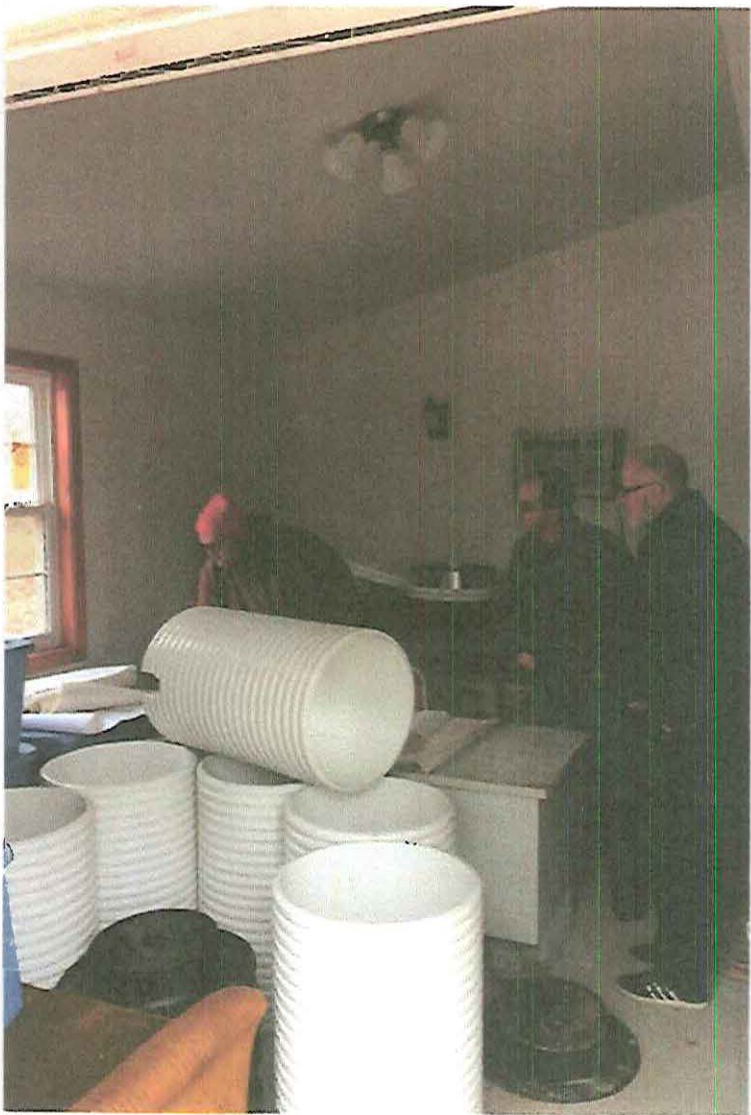
System meter at Well #1

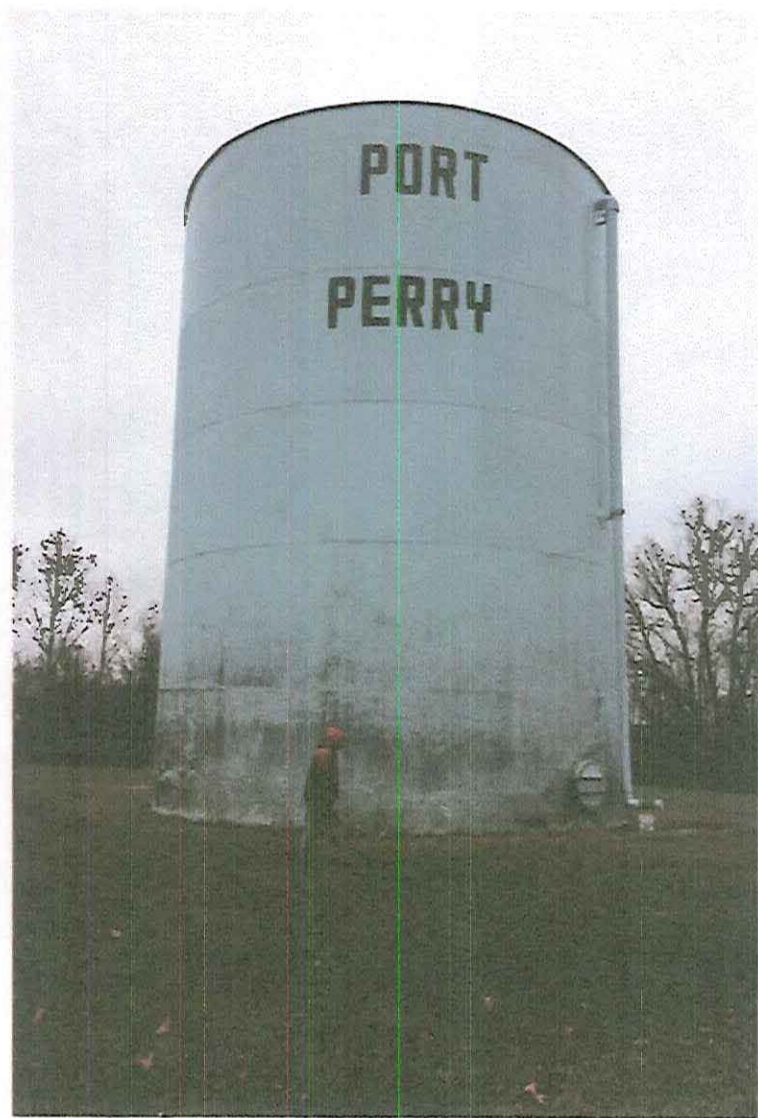


Well #1/Storage tank monitoring



Elevated Water Storage Tank





Appendix 7.07

Rules and Regulations for Water System

PORT PERRY SERVICE COMPANY
Name of Issuing Company

For: PORT PERRY, PERRY COUNTY, MO
Certificated Service Area

Rules and Regulations Governing Missouri Public
the Rendering of Water Service

REC'D APR 15 2002

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Service Commission

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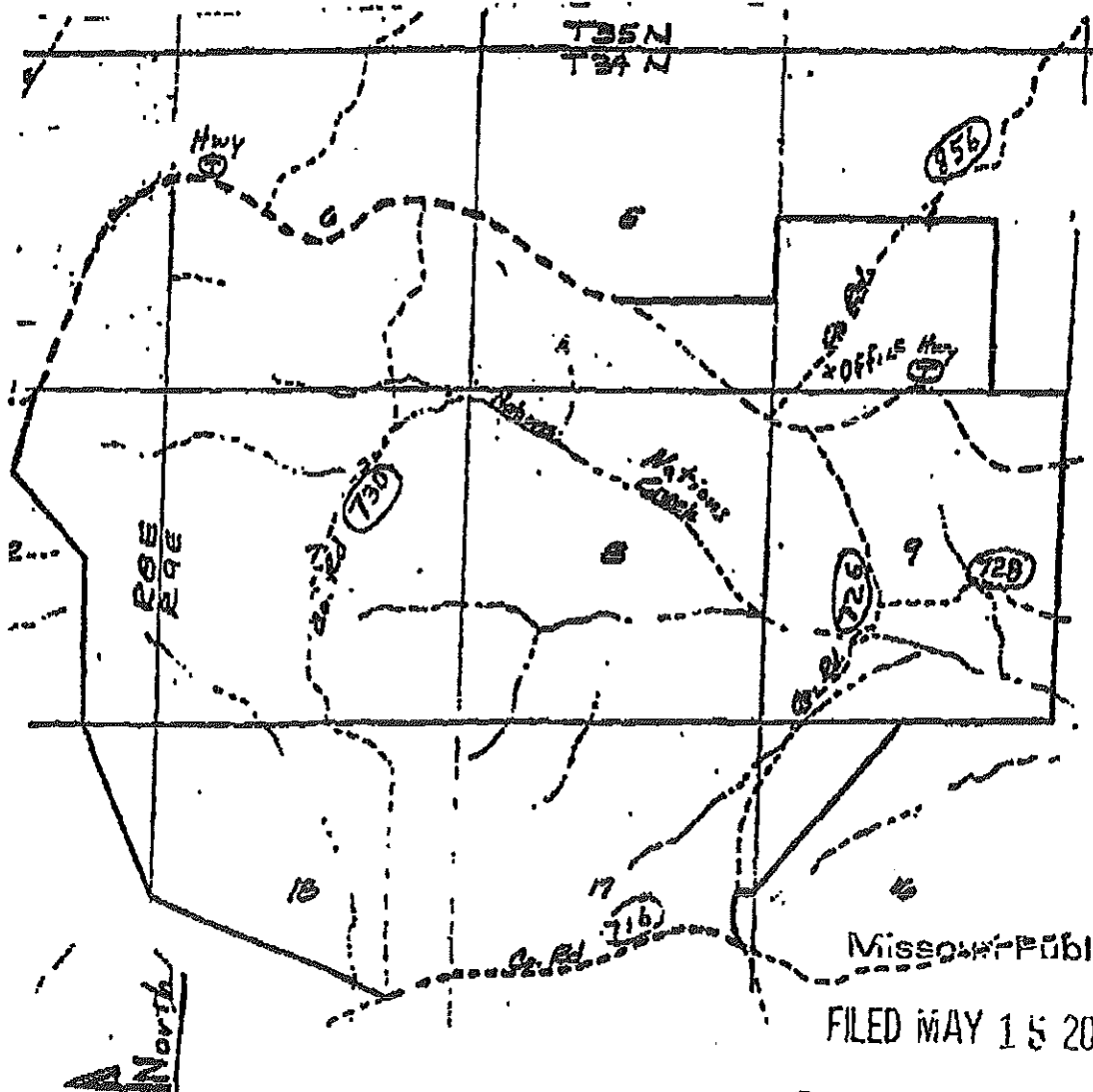
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Map of Service Area



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Legal Description of Service Area

Beginning at the point of intersection of the center line of Missouri Highway T with the east line of section 9, T34N, R9E, Perry County, Missouri;

Thence north along said east line to the northeast corner of said section;

Thence west along the north line of said section to the southeast corner of the southwest 1/4 of the southeast 1/4 of section 4;

Thence north along the east line of said 1/4 1/4 section and continuing to the northeast corner of the northwest 1/4 of said southeast 1/4;

Thence west along the east-west centerline of section 4 to the west line of said section;

Thence south along said west line to the northeast corner of the south-east 1/4 of the southeast 1/4 of section 5;

Thence west along the north line of said 1/4 1/4 section and its prolongation to the centerline of Missouri Highway T;

Thence along said centerline through sections 5, 6 and 7, T34N, R9E and section 1, T34N, R8E to the south line of said section 1;

Thence southwestwardly to the southwest corner of the northwest 1/4 of the northeast 1/4 of section 12;

Thence southeastwardly to the northwest corner of the northeast 1/4 of the southeast 1/4 of section 12, T34N, R8E;

Thence south along the west line of said 1/4 1/4 section and continuing to the northwest corner of the northeast 1/4 of the northeast 1/4 of section 13, T34N, R8E;

Thence southeastwardly to the northwest corner of the northwest 1/4 of the southwest 1/4 of section 18, T34N, R9E;

Thence southeastwardly to the intersection of county roads in the southeast 1/4 of the southeast 1/4 of said section;

Thence eastwardly along the county road to its intersection with a county road in the northeast 1/4 of the southeast 1/4 of section 17;

Thence northwardly along the county road to the north line of said 1/4 1/4 section;

Thence east along said north line to the northeast corner of said 1/4 1/4 section;

Thence northeastwardly to the southwest corner of the southwest 1/4 of the southeast 1/4 section 9;

Thence east along the south line of said 1/4 1/4 section and continuing to the southeast corner of section 9, T34N, R9E;

Thence north along the east line of said section to the point of beginning and containing 4.000 acres, more or less.

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For: **PORT PERRY, PERRY COUNTY, MO**
Certificated Service Area

<p>Rules and Regulations Governing the Rendering of Water Service</p>	<p>Missouri Public Service Commission</p> <p>REC'D APR 15 2002</p>	
<p>Schedule of Rates</p>		
<p>The following shall be the rates charged by the Company for the availability of water service or if supplied to the Customer's premises. Charges shall commence on the date of connection or per installation of a camping site or other related establishment and continue until discontinuance of service by written notice to the Company and the removal of the Camper Site, Mobile Home, House or Cabin, etc.</p>		
	<p><u>Meter Size</u></p>	
1. Monthly Minimum per Customer (includes 2,000 gallons)	5/8"	\$ 13.23
2. " "	3/4"	\$ 16.26
3. " "	1"	\$ 22.33
4. " "	1 1/2"	\$ 37.49
5. " "	2"	\$ 55.69
6. " "	3"	\$ 98.16
7. " "	4"	\$158.83
8. All usage over 2,000 gallons (per 1,000 gallons)		\$ 3.58
<p>All applicable Federal, State or Local taxes shall be added in addition to the above charges.</p>		
		<p>Missouri Public Service Commission</p> <p>FILED MAY 15 2002</p>
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Schedule of Service Charges

- | | |
|---|----------|
| 1. Connection Charge | \$508.00 |
| 2. Reconnection Charge (if existing service should be discontinued) | \$ 50.00 |

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Rule 1 DEFINITIONS

- (a) An "APPLICANT" is a person, firm, corporation, governmental body, or other entity that has applied for service; two or more APPLICANTS may make one application for a main extension.
- (b) The "COMPANY" is PORT PERRY SERVICE COMPANY, acting through its officers, managers, or other duly authorized employees or agents.
- (c) A "CUSTOMER" is any person, firm, corporation or governmental body which has contracted with the company for water service or is receiving service from company, or whose facilities are connected for utilizing such service.
- (d) The "DATE OF CONNECTION" shall be the date of the permit for installation and connection issued by the company. In the event no permit is taken and a connection is made, the date of connection may be the date of commencement of construction of the building upon the property.
- (e) A "DEVELOPER" is any person, firm, corporation, partnership or any entity that, directly or indirectly, holds title to, or sells or leases, or offers to sell or lease, or advertises for sale or lease, any lots in a subdivision.
- (f) "DISCONTINUANCE OF SERVICE" is the intentional cessation of service by the company not requested by the customer.
- (g) The "MAIN" is a pipeline that is owned and maintained by the company, located on public property or private easements, and used to transport water throughout the company's service area.
- (h) The "METER" is a device used to measure and record the quantity of water that flows through the service line, and is installed in the meter setting.

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- (i) The "METER SETTING" includes the meter box, meter yoke, lid, and appurtenances, all of which shall be owned and maintained by the company.
- (j) The "SERVICE CONNECTION" is the pipeline connecting the main to the customer's water service line, or outdoor meter setting including all necessary appurtenances. This service connection will be installed, owned, and maintained by the company. If the property line is in a street, the said service connection shall be deemed to end at the edge of the street abutting the customer's property.
- (k) A "SUBDIVISION" is any land in the state of Missouri which is divided or proposed to be divided into two or more lots or other divisions of land, whether contiguous or not, or uniform in size or not, for the purpose of sale or lease, and includes resubdivision thereof.
- (l) "TERMINATION OF SERVICE" is cessation of service requested by the customer.
- (m) The word "UNIT", or LIVING UNIT shall be used herein to define the premises or property of a single water consumer, whether or not that consumer is the customer. It shall pertain to any building whether multi-tenant or single occupancy, residential or commercial, or owned or leased. Each mobile home in a mobile home park, and each rental unit of a multi-tenant rental property are considered as separate units for each single family or firm occupying same as a residence or place of business.
- (n) The "WATER SERVICE LINE" is a pipe with appurtenances installed, owned and maintained by the customer, used to conduct water to the customer's unit from the property line or outdoor meter setting, including the connection to the meter setting. If the property line is in a street, then the water service line shall be deemed to begin at the edge of the street abutting the customer's property.

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Rule 2 GENERAL

- (a) Every applicant, upon signing an application for any water service rendered by the company, or any customer upon taking of water service, shall be considered to have expressed consent to be bound by these rates and rules.
- (b) The company's rules governing rendering of service are set forth in these numbered sheets. The rates applicable to appropriate water service or service in particular service areas are set forth in rate schedules and constitute a part of these rules.
- (c) The company reserves the right, subject to authority of the Missouri Public Service Commission, to prescribe additional rates, rules or regulations or to alter existing rates, rules or regulations as it may from time to time deem necessary and proper.
- (d) After the effective date of these rules and regulations, all new facilities, construction contracts, and written agreements shall conform to these rules and regulations in accordance with the statutes of the State of Missouri and of the Public Service Commission of Missouri. Pre-existing facilities that do not comply with applicable rules and regulations may remain, provided that their existence does not constitute a service problem or improper use, and reconstruction is not practical.

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Rule 3 COMPANY EMPLOYEES AND CUSTOMER RELATIONS

Service Commission

- (a) Employees or agents of the company are expressly forbidden to demand or accept any compensation for any services rendered to its customers except as covered in the company's rules and regulations.
- (b) No employee or agent of the company shall have the right or authority to bind it by any promise, agreement or representation contrary to the intent of these rules and regulations.

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Rule 4 APPLICATIONS FOR SERVICE

Service Commission

- (a) A written application for service, signed by the customer, stating the type of service required and accompanied by any other pertinent information, will be required from each customer before service is provided to any unit. Every customer, upon signing an application for any service rendered by the company, or upon taking of service, shall be considered to have expressed consent to the company's rates, rules and regulations.
- (b) If service is requested at a point not already served by a main of adequate capacity, a main of adequate size shall be extended as may be necessary according to the company's rule for extension of water mains.
- (c) When, in order to provide the service requested, a main extension or other unusual construction or equipment expense is required, the company shall require a written contract. Said contract may include, but not be limited to the obligations upon the company and the applicant, and shall specify a reasonable period of time necessary to provide such service.

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Rule 5 INSIDE PIPING AND WATER SERVICE LINES

- (a) The company will provide water service at the outdoor meter, or at the property line. Separate buildings shall be served through separate water service lines.
- (b) The service connection from the water main to the customer's property line, the meter installation and setting shall be constructed, owned and maintained by the company. Water service line construction and maintenance from the property line or meter setting, including the connection to the meter setting, to the building shall be the responsibility of the customer, and is subject to inspection by the company. Customers shall be responsible for the cost of repairing any damage to the company's mains, meters, and meter installations caused by the customer, his agent, or tenant.
- (c) Existing water service lines may be used in connecting with new buildings only when they are found by examination and testing not to constitute a hazard to the health and safety of any customer or the company's facilities.
- (d) The water service line shall be brought to the unit at a depth of not less than 36 inches and have a minimum inside diameter of 3/4 inch. The customer is responsible for the determination of whether or not a larger size is needed to provide adequate flow to the unit. A valve must be installed in the service line where it enters the unit. This valve must be kept in good repair in order to shut off the water supply and drain the inside plumbing, if necessary.
- (e) Water service lines and inside piping shall be of material conforming to recognized standards for potable water service and shall have a pressure rating of at least 160 psi working pressure.
- (f) The company is not obligated to install a service connection to a vacant lot.
- (g) Any change in the location of an existing service connection requested by the customer shall be made at his expense.

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- (h) The company shall have the right to enter the customer's premises for the purposes of inspection to ensure compliance to these rules. Company personnel shall identify themselves and make these inspections only at reasonable hours.
- (i) Neither water service lines nor service connections may be extended along public streets or roadways or through property of others in connecting with the company's mains. The service connection may, however, extend through the water main easement and roadway easement as necessary in order to be connected to a main located across and adjacent to a street in front of the customer's living unit. The service connection and service line must be laid in a straight line and at right angles to the main and the face of the structure or as nearly so as possible. Any deviation from this because of physical obstruction will be at the discretion of the company.
- (j) Any customer having a plumbing arrangement, or a water-using device that could allow backsiphonage of any chemical, petroleum, process water, water from a questionable supply, or other substance that could create a health hazard or damage to the water system; or, any customer's plumbing classified as an actual or potential backflow hazard in the regulations of the Missouri Department of Natural Resources, 10 CSR 60 - 11, shall be required to install and maintain a backflow prevention device. This rule may also apply to customers on whose premises it is impossible or impractical for the company to perform a cross connection survey. The device, installation, location and maintenance program shall be approved by the company.

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Rule 6 IMPROPER OR EXCESSIVE USE

- (a) No customer shall be wasteful of the water supplied to the unit by his willful action or inaction. It shall be the responsibility and duty of each customer to maintain all piping and fixtures at the unit in a good and efficient state of repair at all times.
- (b) No customer shall make or cause to be made a cross connection between the potable water supply and any source of chemical or bacterial contamination or any other water supply. The company shall deny or discontinue service where customer's water service line or inside piping may, in the opinion of the company, cause a cross-connection with non-potable water or otherwise jeopardize the health and safety of other customers or the company's facilities.
- (c) The customer shall not make or cause to be made a connection to a device that will result in excessive water demand or excessive shock, such as water-hammer, to the company's mains.
- (d) The customer shall not tamper with, remove, or willfully damage a water meter or attempt to operate the shutoff cock on the meter yoke, or allow any such action.
- (d) The customer shall not attempt to take unmetered water from the company mains either by an unauthorized tap or direct connection to service connection nor by connection to a fire hydrant
- (f) Customers will not be permitted to supply water in any way to premises other than the service address, nor to permit others to use their hose or attachments, nor leave them exposed to use by others without permission from the water company.

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Rule 7 DISCONTINUANCE OF SERVICE BY COMPANY

- (a) The company may discontinue service for any of the following reasons:
1. Nonpayment of a delinquent account not in dispute.
 2. Failure to post a security deposit or guarantee acceptable to the utility.
 3. Unauthorized interference, diversion or use of the utility service situated or delivered on or about the customer's premises.
 4. Failure to comply with the terms and conditions of a settlement agreement.
 5. Refusal to grant access at reasonable times to equipment installed upon the premises of the customer for the purpose of inspection, meter reading, maintenance or replacement.
 6. Violation of any of these rules on file with and approved by the Public Service Commission, or for any condition which adversely affects the safety of the customer or other persons, or the integrity of the utility's delivery system.
 7. Non-payment of a sewer bill issued by the company, or by a sewer utility requesting discontinuance of water service by an approved agreement between the company and such sewer utility. When water service is discontinued for this reason, any service charges for turn on/off or disconnection/reconnection within these rules shall not apply, and notice to the customer shall be provided by rules and procedure applicable to the customer's sewer service in lieu of notification required by these rules.

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- (b) The company may discontinue service after notice by first class mail is sent to the customer at least ten (10) days prior to the date of the proposed discontinuance. If written notice is hand delivered to the customer, it shall be done at least ninety-six (96) hours prior to discontinuance. If the company intends to discontinue service to a multi-tenant dwelling, a notice shall also be conspicuously posted in the building ten (10) days prior to the proposed discontinuance. Service of notice by mail is complete upon mailing. Discontinuance shall not occur more than eleven (11) business days after the date given as the discontinuance date.
- (c) The company shall make reasonable effort to communicate with the customer, at least twenty-four (24) hours prior to any discontinuance, regarding the reasons(s) for discontinuance of service, and the resolution. If discontinuance of service would affect an occupant who is not the company's customer, or is not responsible for payment of the bill, then the company shall make reasonable effort to inform such occupant(s).
- (d) The company shall postpone the discontinuance if personnel will not be available to restore service the same day, or if personnel will not be available to restore service the following day. The company also shall postpone discontinuance if a medical emergency exists on the premises, however the postponement may be limited to 21 days, and the company may require proof of a medical emergency.
- (e) Discontinuance of service will be made during reasonable hours. Company personnel shall identify themselves and announce the intention to disconnect service, or leave a conspicuous notice of the disconnect.
- (f) The provisions of paragraphs (c) and (e) above may be waived if safety of company personnel while at the premises is a consideration.
- (g) Discontinuance of service to a unit for any reason shall not prevent the company from pursuing any lawful remedy by action at law or otherwise for the collection of monies due from the customer.

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- (h) In case the company discontinues its service for any violation of these rules, then any monies due the company shall become immediately due and payable.
- (i) The company has the right to refuse or to discontinue service to any unit to protect itself against fraud or abuse.
- (j) The company shall deal with customers and handle customer accounts in accordance with the Public Service Commission's Utility Billing Practices, 4 CSR 240 - 13.

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Rule 8 TERMINATION OF SERVICE AT CUSTOMER'S REQUEST

- (a) Service will be terminated at the customer's request, by giving not less than twenty-four (24) hours notice to the company during its regular office hours. The company shall, on the requested day, read the customer's meter and charges for water service rendered up to and including the time of termination shall be computed and will become due and payable immediately.
- (b) A customer may request temporary termination of service for any length of time for his own convenience; however, the customer shall still be charged for service at the appropriate rate during the time the service is turned off. Turn-off and turn-on charges are specified in the schedule of service charges.

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Month Day Year

Issued By: E. Robert Horn, President
Name and Title of Issuing Officer

14644 Hwy T, Perryville, MO 63775
Company Address

PORT PERRY SERVICE COMPANY
Name of Issuing Company

For: PORT PERRY, PERRY COUNTY, MO
Certificated Service Area

<u>Rules and Regulations Governing the Rendering of Water Service</u>	Missouri Public DEC'D APR 15 2002 Service Commission
<p>Rule 9 <u>INTERRUPTIONS IN SERVICE</u></p> <p>(a) The company reserves the right to discontinue water in its mains at any time, without notice, for making emergency repairs to the water system.</p> <p>(b) Whenever service is interrupted for repairs, all customers affected by such interruptions will be notified in advance whenever it is possible to do so. Every effort will be made to minimize interruption of service.</p> <p>(c) No refunds of charges for water service will be made for interruptions of service unless due to willful misconduct of the company.</p> <p>(d) In order to avoid service problems when extraordinary conditions exist, the company reserves the right, at all times, to determine the limit of and regulate in a reasonable and non-discriminatory manner, and where practical, the maximum amounts of water drawn from the company mains.</p> <p>(e) Service may be discontinued without notice in the event of a threat to the welfare of the customers or the apparent likelihood of major property damage. Under these circumstances, prior notice is not required, but notice to the affected customers shall be provided at the earliest convenience or as soon as possible.</p>	
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Rules and Regulations Governing Missouri Public
the Rendering of Water Service

REC'D APR 15 2002

Rule 10 BILLS FOR SERVICE

Service Commission

- (a) The charges for water service shall be at the rates specified in the rate schedules on file with the Missouri Public Service Commission. Other service charges, such as for turn-off or turn-on, are set forth in the Schedule of Service Charges in these rules.
- (b) A customer who has made application for water service to a unit shall be responsible for payment for all water service provided to him at said unit from the date of connection until the date requested by the customer by proper notification to the company to terminate service.
- (c) Each customer is responsible for furnishing the company with the correct address. Failure to receive bills will not be considered an excuse for non-payment nor reason to permit an extension of the date when the account would be considered delinquent. Bills and notices relating to the company or its business will be mailed or delivered to the mailing address entered in the customer's application unless the company is notified in writing by the customer of a change of address.
- (d) Payments shall be made at the office of the company or at such other places conveniently located as may be designated by the company or by ordinary mail. However, payment must be received by the close of business on the date due.
- (e) Neither the company nor the customer will be bound by bills rendered under mistake of fact as to the quantity of service rendered or as a result of clerical error. Customers will be held responsible for charges based on service provided.
- (f) A separate bill shall be rendered for each customer with itemization of all water service charges. All bills for service shall state the due date. The company shall have the right to render bills monthly. In the event that a meter cannot be read due to conditions beyond the Company's control, the Company may estimate the amount of water used for billing purposes subject to adjustment at the time an actual reading is obtained.

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- (g) Bills shall be due twenty-one (21) calendar days from the date of rendition, unless

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such due date falls on a Sunday, a legal holiday, or other day when the office is closed, in which case the due date shall be extended to the next business day. Bills unpaid after the stated due date will be delinquent and the company shall have the right to discontinue service in accordance with Rule 7. The company shall not be required to restore or connect any new service for such delinquent customers until the unpaid account due the company under these Rules and Regulations has been paid in full or arrangements satisfactory to the company have been made to pay said account.

- (h) When bills are rendered for a period of less than a complete billing period due to the connection or termination of service, the billing shall be the monthly minimum plus an amount based on the water used at the commodity (water usage) rate or one-half (1/2) of the flat rate if applicable.
- (i) The company may require a security deposit or other guarantee as a condition of new service if the customer: still has an unpaid account with a utility providing the same type of service accrued within the last five years; or has diverted or interfered with the same type of service in an unauthorized manner within the last five (5) years; or is unable to establish a credit rating with the company. Adequate credit rating for a residential customer shall be established if the customer: owns or is purchasing a home; or is and has been regularly employed full time for at least one year; or has an adequate and regular source of income; or can provide credit references from a commercial credit source.
- (j) The company may require a security deposit or other guarantee of payment as a condition of continued service if: the water service of the customer has been discontinued for non-payment of a delinquent account not in dispute; or the utility service to the unit has been diverted or interfered with in an unauthorized manner; or the customer has failed to pay undisputed bills before the delinquency date for five (5) billing periods out of twelve (12) consecutive monthly billing periods, or two (2) out of four (4) consecutive quarterly billing periods.
- (k) The amount of a security deposit shall not exceed utility charges applicable to one (1) billing period plus thirty (30) days, computed on estimated or actual annual usage.

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- (l) Interest at the rate of 6% per annum compounded annually shall be payable on all deposits, but shall not accrue after the utility has made reasonable effort to return the deposit. Interest may be credited to the customer's account.
- (m) After a customer has paid proper and undisputed utility bills by the due dates, for a period not to exceed one year, credit shall be established or re-established, and the deposit and any interest due shall be refunded. The utility may withhold full refund of the deposit pending resolution of a disputed matter.
- (n) The utility shall give a receipt for deposits received, but shall also keep accurate records of deposits, including customer name, service address, amounts, interest, attempts to refund and dates of every activity regarding the deposit.
- (o) All billing matters shall be handled in accordance with the Public Service Commission's Utility Billing Practices, 4 CSR 240-13.

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Rule 11 METERS AND METER INSTALLATIONS

Service Commission

- (a) All permanent service connections shall be metered. The company's installed meter shall be the standard for measuring water used to determine the bill.
- (b) All meters and meter installations shall be furnished, installed, maintained and removed by the company and shall remain its property.
- (c) The company shall have the right to determine on the basis of the customer's flow requirements the type and size of meter to be installed and location of same. If flow requirements increase or decrease subsequent to installation and a larger or smaller meter is requested by the customer, the cost of installing such meter shall be paid by the customer.
- (d) Service to any one customer shall be furnished through a single metering installation. Where a building is occupied by more than one tenant, the building shall be served by one meter. Inside piping may be rearranged at the customer's own expense so as to separate the units and meter tenants, then divide the bill accordingly.
- (e) The meters and meter installations furnished by the company shall remain its property, and the owners of premises wherein they are located shall be held responsible for their safekeeping. For failure to protect same against damage, the company may refuse to supply water until the company is paid for such damage. The amount of the charge shall be the cost of the necessary replacement parts and the labor cost necessary to make the repair.
- (f) The meter will be installed at or near the customer's property line; it shall be placed in a meter box vault constructed by the company in accordance with its specifications. The company shall furnish and install suitable metering equipment for each customer except where installation in a special setting is necessary, in which case the excess cost of installation shall be paid by the customer.

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- (g) The customer shall promptly notify the company of any defect in, or damage to, the meter setting.
- (h) Any change in the location of any existing meter or meter setting at the request of the customer shall be made at the expense of the customer, and with the approval of the company.
- (i) If an existing basement meter location is determined inadequate or inaccessible by the company, the customer must provide for the installation of a meter to be located at or near the customer's property line. The customer shall obtain from the company, or furnish the necessary meter installation appurtenances conforming to the company's specifications, and said appurtenances and labor shall be paid by the customer.
- (j) Approved meter installation locations in dry basements, sufficiently heated to keep the meter from freezing, may remain provided the meter is readily accessible, at the company's and customer's convenience as determined by the company, for servicing and reading and the meter space provided is located where the service line enters the building. The company may, at its discretion, require the customer to install a remote reading device at an approved location, for the purpose of reading the meter. It is the responsibility of the customer and/or the owner of the premises to provide a location for the water meter, which, in the event of water discharge as a result of leakage from the meter or couplings, will not result in damage. The company's liability for damages to any and all property caused by such leakage shall in no event exceed the price of water service to the affected premises for one average billing period in the preceding year. Where damage is caused by the negligence of company personnel at the premises, this limitation will not apply. If a customer refuses to provide an accessible location for a meter as determined by the company, the company will notify the Executive Secretary of the Public Service Commission before ultimately refusing service or proceeding to discontinue service.

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<u>Rules and Regulations Governing the Rendering of Water Service</u>	Missouri Public RECD APR 15 2002
<p>Rule 12 <u>METER TESTS AND TEST FEES</u></p> <p>(a) Any customer may request the company to make a special test of the accuracy of the meter through which water is supplied to him. This test will be made in accordance with water industry test procedures, and to check for accuracy as required by regulations of the Public Service Commission.</p> <p>(b) The company reserves the right to remove and test a meter at any time and to substitute another in its place. In case of a dispute involving a question as to the accuracy of the meter, a test will be made by the company upon the request of the customer without charge if the meter has not been tested within twelve (12) months preceding the requested test; otherwise, an approved charge will be made if the test indicates meter accuracy within five percent (5%).</p> <p>(c) A meter test requested by the customer may be witnessed by the customer or his duly authorized representative, except for tests of meters larger than two (2) inch inlet, which will be conducted by the meter manufacturer. A copy of the test report will be provided to the customer.</p> <p>(d) If a test shall show an average error of more than five percent (5%), billings shall be adjusted as provided by these Rules.</p>	<p>Service Commission</p> <p>Missouri Public FILED MAY 15 2002 Service Commission</p>
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Rule 13 BILL ADJUSTMENTS BASED ON METER TESTS

- (a) Whenever any test by the company of a meter while in service or upon its removal from service shall show such meter to have an average error of more than five percent (5%) on the test streams prescribed by the Public Service Commission, the company shall adjust the customer's bills by the amount of the actual average error of the meter and not the difference between the allowable error and the error as found. The period of adjustment on account of the under-registration or over-registration shall be determined as follows:
 - (1) Where the period of error can be shown, the adjustment shall be made for such period.
 - (2) Where the period of error cannot be shown, the error found shall be considered to have existed for three (3) months preceding the test.
- (b) If the meter is found on any such test to under-register, the company may render a bill to the customer concerned for the estimated consumption not covered by bills previously rendered during the period of inaccuracy as above outlined. Such action shall be taken only when the company was not at fault for allowing the inaccurate meter to remain in service.
- (c) If the meter is found faster than allowable, the company shall refund to the customer concerned any overcharge caused thereby during the period of inaccuracy as above defined. Said refund may, at the company's option, be in the form of a credit to the customer's bill.

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Rule 14 EXTENSION OF WATER MAINS

- (a) This rule shall govern the extension of mains by the company within its certified area where there are no water mains.
- (b) Upon receipt of a written application for a main extension, the company will provide the applicant(s) an itemized estimate of the cost of the proposed extension. Said estimate shall include the cost of all labor and materials required, including valves, fire hydrants, booster stations, storage facilities, reconstruction of existing mains (if necessary), and the direct costs associated with supervision, engineering, permits, and bookkeeping.
- (c) Applicant(s) shall enter into a contract with the company for the installation of said extension and shall tender to the company a contribution in aid of construction equal to the amount determined in paragraph (b) above, plus any applicable customer connection fee. The contract may allow the customer to contract with an independent contractor for the installation and supply of material, except that mains of 12" or greater diameter must be installed by the company, and the reconstruction of existing facilities must be done by the company.
- (d) The cost to an applicant or applicants connecting to a main extension contributed by other applicant(s) shall be as follows:
 - (1) For single-family residential applicants that are applying for service in a platted subdivision, the company shall divide the actual cost of the extension (including income taxes) by the number of lots abutting said extension to determine the per lot extension cost. When counting lots, corner lots that abut existing mains shall be excluded.
 - (2) For single-family residential applicants that are applying for service in areas that are unplatted in subdivision lots, the applicants' cost shall be equal to the total cost of the main extension divided by the total length of the main extension in feet times 100 feet.
 - (3) For industrial, commercial, or multifamily residential applicants, the cost will be

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equal to the amount calculated for a single-family residence in paragraphs d(1) or d(2) above multiplied times the flow factors of the applicants' meter. The flow factors of the various sizes of meters are as follows:

<u>Meter Size</u>	<u>Flow Factor</u>
5/8	1
3/4	1.5
1	2.5
1 1/2	5
2	8
3	15
4	25

- (e) Refunds of contributions shall be made to applicant(s) as follows:
- (1) Should the actual cost of the extension be less than the estimated cost, the company shall refund the difference as soon as the actual cost has been ascertained.
 - (2) During the first ten years after the main extension is completed, the company will refund to the applicant(s) who paid for the extension moneys collected from applicant(s) in accordance with paragraph (d) above. The refund shall be paid within a reasonable time after the money is collected. At the expiration of said ten (10) year period, the refund account will be closed and no further refunds will be made.
 - (3) The sum of all refunds to any applicant shall not exceed the total contribution which the applicant(s) has paid.
 - (4) After the Company has closed its books for the year in which a contribution was made, it will determine its actual income tax cost associated with each extension and refund any excess income tax costs collected from each Applicant.

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- (f) Extensions made under this rule shall be and remain the property of the company.
- (g) The company reserves the right to further extend the main and to connect mains on intersecting streets and easements. Connecting new customers to such further extensions shall not entitle the applicant(s) paying for the original extension to a refund for the connection of such customers.
- (h) Extensions made under this rule shall be of company-approved pipe sized to meet water service requirements. If the company chooses to size the extension larger in order to meet the company's overall system requirements, the additional cost caused by the large size of pipe shall be borne by the company.
- (i) No interest will be paid by the company of payments for the extension made by the applicant(s).
- (j) If extensions are required on private roads, streets, through private property, or on private property adjacent to public right-of-way, a proper deed of easement must be furnished to the company without cost to the company, before the extension will be made.

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Appendix 7.08

Rules and Regulations for Wastewater System

PORT PERRY SERVICE COMPANY For:
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**Rules and Regulations Governing
the Rendering of Sewer Service**

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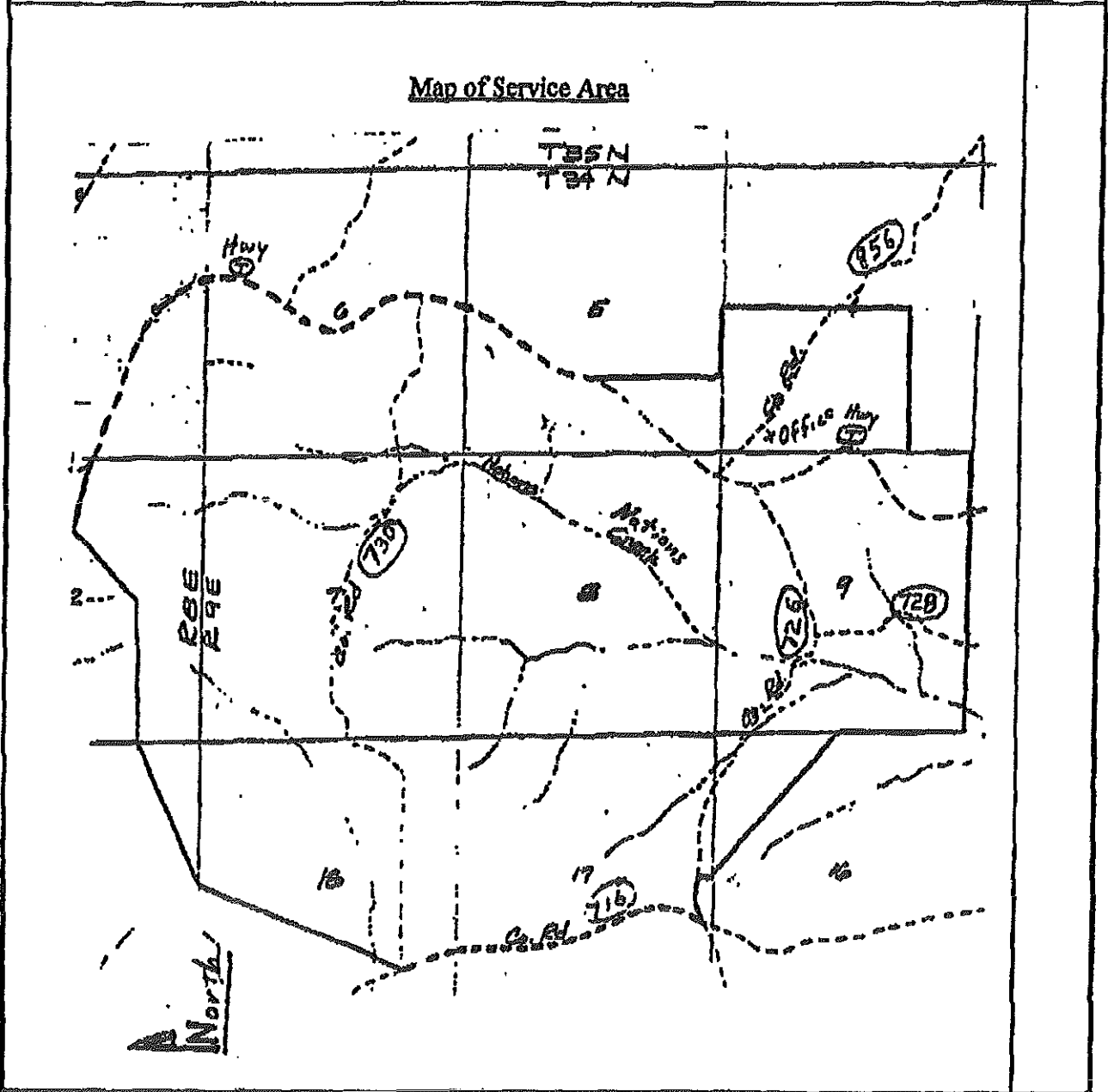
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Rules and Regulations Governing
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Map of Service Area



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PORT PERRY SERVICE COMPANY For:
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Legal Description of Service Area

Beginning at the point of intersection of the center line of Missouri Highway T with the east line of section 9, T34N, R9E, Perry County, Missouri;
Thence north along said east line to the northeast corner of said section;
Thence west along the north line of said section to the southeast corner of the southwest 1/4 of the southeast 1/4 of section 4;
Thence north along the east line of said 1/4 1/4 section and continuing to the northeast corner of the northwest 1/4 of said southeast 1/4;
Thence west along the east-west centerline of section 4 to the west line of said section;
Thence south along said west line to the northeast corner of the south-east 1/4 of the southeast 1/4 of section 5;
Thence west along the north line of said 1/4 1/4 section and its prolongation to the centerline of Missouri Highway T;
Thence along said centerline through sections 5, 6 and 7, T34N, R9E and section 1, T34N, R8E to the south line of said section 1;
Thence southwestwardly to the southwest corner of the northwest 1/4 of the northeast 1/4 of section 12;
Thence southeastwardly to the northwest corner of the northeast 1/4 of the southeast 1/4 of section 12, T34N, R8E;
Thence south along the west line of said 1/4 1/4 section and continuing to the northwest corner of the northeast 1/4 of the northeast 1/4 of section 13, T34N, R8E;
Thence southeastwardly to the northwest corner of the northwest 1/4 of the southwest 1/4 of section 18, T34N, R9E; Thence southeastwardly to the intersection of county roads in the southeast 1/4 of the southeast 1/4 of said section;
Thence eastwardly along the county road to its intersection with a county road in the northeast 1/4 of the southeast 1/4 of section 17; Thence northwardly along the county road to the north line of said 1/4 1/4 section;
Thence east along said north line to the northeast corner of said 1/4 1/4 section;
Thence northeastwardly to the southwest corner of the southwest 1/4 of the southeast 1/4 section 9;
Thence east along the south line of said 1/4 1/4 section and continuing to the southeast corner of section 9, T34N, R9E;
Thence north along the east line of said section to the point of beginning and containing 4,000 acres, more or less.

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**Rules and Regulations Governing
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Schedule of Rates

**RATE SCHEDULE "A"
SINGLE FAMILY DWELLING**

RULES AND REGULATIONS: The General Rules and Regulations set forth in this tariff shall govern the supply of service under these rates.

AVAILABILITY: This rate is available for single-family residences and membership or time-share resorts located on the Company's collection system, suitable for providing the service requested.

RATE TABLE:

SEWER RATE SCHEDULE

The following shall be the rates charged by the Company for the availability of sewer service or if supplied to the Customer's premises. Charges shall commence on the date of connection or per installation of a camping site or other related establishment and continue until discontinuance of service by written notice to the Company and the removal of the camper site, mobile home, house or cabin, etc. *7/11/02*

- | | |
|--|---------------|
| 1. Full-time Residential Sites | \$18.94/month |
| 2. Part-time Residential Sites | \$14.21/month |
| 3. Part-time Residential Trailer or Camper Site with sewer service | \$14.21/month |

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|--|---------------|
| 4. Bathhouse and swimming pool complex | \$37.37/month |
| 5. Camper dumping station (each) | \$37.37/month |

All applicable Federal, State and Local taxes shall be added in addition to the above charges.

**RATE SCHEDULE "C"
COMMERCIAL ESTABLISHMENTS**

RATE TABLE: The connection fee shall be as enumerated for the uses listed. If a facility is constructed which is not enumerated in the uses listed below, the connection fee shall be One Dollar (\$1.00) per gallon, multiplied by the daily design waste discharge.

The connection fee paid shall be based upon the ultimate waste discharge design capacity of a Customer's facility. If modifications are made or additional facilities are constructed beyond the original ultimate design, an additional connection fee shall be due based upon the amount of the increase in discharge capacity. In no event shall any connection fee be less than \$400.00.

CONNECTION FEE:

Boarding houses, person.....	\$ 50
Boarding schools, student.....	\$100
Country clubs, member.....	\$ 30
Day schools, student.....	\$ 20
Grocery store**, 1000 sq. ft. area.....	\$100
Hospitals, bed.....	\$200
Hotels*, room.....	\$ 75
Laundromats, machine.....	\$250
Motels*, room.....	\$ 75

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Nursing homes, resident	\$ 90
Restaurants – paper service	\$800
Restaurants – full service, seat	\$ 40
Service station.....	\$500
Swimming pools, per 15 sq. ft. of pool area	\$ 10
Taverns, bars, and cocktail lounges seating capacity.....	\$ 5

*Add estimates for public facilities associated therewith such as restaurants, stores, etc.

**Garbage grinders \$1500 additional.

The service charge shall be fifty cents (\$0.50) per one thousand gallons, with a minimum of ten dollars (\$10.00) per month.

All applicable Federal, State or local taxes shall be added as separate items in addition to the above charges.

**RATE SCHEDULE "D"
INDUSTRIAL WASTE**

AVAILABILITY: This rate is available in the service area for industrial users discharging effluent other than domestic sewage.

A special contract for service, mutually agreeable to the Customer and the company and approved by the Missouri Public Service Commission, will be entered into, which will set connection fees and rates for treatment which will take into consideration the special requirements for treatment of such effluent.

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Name and Title of Issuing Officer

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Schedule of Service Charges

1. Connection Charge	\$404.00
2. Reconnection Charge (if existing service should be discontinued)	\$200.00
3. Delinquent Late Charge (for bills delinquent over thirty (30) days)	10% of unpaid balance
4. Service Call Charge	\$15.00 plus parts
5. Tap Inspection Fee	\$10.00

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Rule 1 DEFINITIONS

- A. An "APPLICANT" is a person, firm, corporation, governmental body, or other entity which has applied for service or a sewer extension; two or more such entities may make one application for a sewer extension, and be considered one APPLICANT.
- B. "B.O.D" denotes biochemical oxygen demand. It is the quantity of oxygen utilized in the biochemical oxidation of organic matter under standard laboratory conditions expressed in milligrams per liter.
- C. A "COLLECTING SEWER" is a pipeline, including force lines, gravity sewers, interceptors, laterals, trunk sewers, manholes, lampholes, and necessary appurtenances, including service wyes, which is owned and maintained by the company, located on public property or on private easements, and used to transport sewage waste from the customer's service connection to the point of disposal.
- D. The "COMPANY" is **PORT PERRY SERVICE COMPANY**, acting through its officers, managers, or other duly authorized employees or agents.
- E. A "CUSTOMER" is any person, firm, corporation or governmental body which has contracted with the company for sewer service or is receiving service from company, or whose facilities are connected for utilizing such service.
- F. The "DATE OF CONNECTION" shall be the date the permit for a service connection is issued by the company. In the event no permit is taken and a service connection is made, the date of connection shall be determined based on available information, such as construction/occupancy permits, or water or electric service turn-on dates.
- G. A "DEVELOPER" is any person, firm, corporation, partnership or any entity that, directly or indirectly, holds title to, or sells or leases, or offers to sell or lease, or advertises for sale or lease, any lots in a subdivision.

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- H. "DISCONTINUANCE OF SERVICE" is intentional cessation of the use of sewer service by action of the company not at the request of the customer. Such DISCONTINUANCE OF SERVICE may be accomplished by methods including physical disconnection of the service sewer, or disconnection of water service by the water utility at the request of the company.
 - I. "DOMESTIC SEWAGE" is sewage, excluding storm and surface water, resulting from normal household activities; and, "NON-DOMESTIC SEWAGE" is all sewage other than DOMESTIC SEWAGE including, but not limited to, commercial or industrial wastes. (See Rule 6 pertaining to Improper Waste and Excessive Use.)
 - J. A "FOUNDATION DRAIN" is a pipe installed inside or outside the foundation of a structure for the purpose of draining ground or subsurface water away from the foundation.
 - K. A "HYBRID PUMP", for the purposes of this document, is an effluent pump unit belonging to a customer that was not furnished through the company.
 - L. "pH" is the relative degree of acidity or alkalinity of water as indicated by the hydrogen ion concentration. PH is indicated on a scale reading from 1-14, with 7 being neutral, below 7 acid, and above 7 alkaline; more technically defined as the logarithm of the reciprocal of the hydrogen ion concentration.
 - M. A "REPAIRABLE PART", for the purposes of this document, is limited to the liquid level control device(s), heater, alarm system and check valve components of an effluent pump furnished through the company.
 - N. A "SERVICE CONNECTION" is the connection of a service sewer to the company collecting sewer either at the bell of a wye branch or the bell of a saddle placed on the barrel of the collecting sewer.
 - O. A "SERVICE SEWER" is a pipe with appurtenances installed, owned and maintained by the customer, used to conduct sewage from the customer's premises to the collecting sewer, excluding service wyes or saddles.
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- P. A "SUBDIVISION" is any land in the state of Missouri which is divided or proposed to be divided into two or more lots or other divisions of land, whether contiguous or not, or uniform in size or not, for the purpose of sale or lease, and includes resubdivision thereof.
- Q. "SUSPENDED SOLIDS" are the insoluble materials suspended or dispersed in waste water, expressed in milligrams per liter on a dry weight basis, as determined by standard procedures.
- R. "TERMINATION OF SERVICE" is the cessation of the use of sewer service requested by the customer. Such TERMINATION OF SERVICE shall be accomplished by a method verified and recognized by the company, and may include physical disconnection of the service sewer, termination or disconnection of water service by the water utility, or the company's observation of non-occupancy of the unit served.
- S. The word "UNIT", or LIVING UNIT shall be used herein to define the premises or property of a single sewer user, whether or not that sewer user is the customer. It shall pertain to any building whether multi-tenant or single occupancy, residential or commercial, owned or leased. Each mobile home in a mobile home park, and each rental unit of a multi-tenant rental property are considered as separate UNITS for each single family or firm occupying same as a residence or place of business.

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Rule 2 GENERAL RULES AND REGULATIONS

- A. Every customer, upon signing an application for service or accepting service rendered by the company, shall be considered to have expressed consent to be bound by these rates and rules.
- B. The company's rules governing rendering of service are set forth in the numbered sheets of this tariff. The rates applicable to appropriate class of service are set forth in rate schedules and constitute a part of this tariff.
- C. The company reserves the right, subject to the authority from the Public Service Commission of Missouri, to prescribe additional rates or to alter existing rates or rules as it may deem necessary or proper.
- D. At the effective date of these rules, all new facilities, construction contracts and written agreements shall conform to these rules in accordance with the statutes of the State of Missouri and authority of the Public Service Commission of Missouri. Pre-existing facilities that do not conform with these rules may remain, if said facilities do not cause any service problems and reconstruction is impractical.
- E. The company shall have the right to enter upon the customer's premises for the purpose of inspecting for compliance with these rules. Company personnel shall identify themselves and such inspections shall be conducted during reasonable hours.
- F. Where water usage determines sewer charges and a meter fails to register, or if the Company is unable to gain access to a Customer's premises, the Customer's meter reading shall be estimated from the record of meter readings for a comparable prior period.

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Rule 3 LIMITED AUTHORITY OF COMPANY EMPLOYEES

- A. Employees or agents of the company are expressly forbidden to demand or accept any compensation for any service rendered to its customers except as covered in the company's rules.
- B. No employee or agent of the company shall have the right or authority to bind it by any promise, agreement or representation contrary to the letter or intent of these rules.

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Rule 4 APPLICATIONS FOR SEWER SERVICE

- A. A written application for service, signed by the customer, and accompanied by the appropriate fees as provided in the Schedule of Rates, Service Charges, or Rule 11 - Extension of Collecting Sewers, and other information required by these rules, must be received from each customer before service is provided to any unit. Said application must be filed in writing 48 hours in advance stating the street, house number, name of the applicant, name of the property owner, and the time, at which connection is to be made. The company shall have the right to refuse service for failure to comply with the rules herein, or if the customer owes a past due bill not in dispute for sewer service at any location within the company's service area. In any case where a sewer extension, or unusual construction or equipment expense is necessary to furnish the service, the company may require a contract for service specifying a reasonable period of time for the company to provide the service. If the customer is a tenant, the company shall notify the owner of the property that the owner may be responsible for payment of the sewer service bill.
- B. A prospective commercial or industrial customer shall, upon request of the company, present in writing to the company a list of devices that will discharge to the collecting sewers, the amount and specifications of any discharge, and the location of any buildings. The company will then advise the customer of the form and the character of the wastewater collection facilities available. If a sewer extension as provided for in Rule 11 - Extension of Collecting Sewers will be necessary, or if the customer will be required to own, operate, and maintain a pretreatment facility, the customer will also be so advised.
- C. When sewer charges are based on water usage, the company reserves the right to refuse sewer service to any applicant unless said applicant agrees to install a water meter accessible by the company, so that there will be a basis for sewer charges. The company and customer may agree to an estimated water use amount, on an interim basis for a period not to exceed six (6) months, to allow time to install suitable metering equipment.

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- D. The company will determine or approve the location of the service connection. Service sewers will not be extended along public streets or roadways or through property of others in connecting with collecting sewers. If a service connection is requested at a point not already served by a collecting sewer of adequate capacity, the collecting sewer shall be extended in accordance with Rule 11 - Extension of Collecting Sewers, unless, in the company's judgment such a collecting sewer would serve no other purpose and a service sewer may be constructed to serve the customer's premises in a reasonable manner.
- E. A new service connection shall be authorized when all conditions of Paragraphs A, B, C, and D, above, are met.
- F. When a service sewer is to be connected to the collecting sewer, the plumber employed by the customer shall obtain the connecting accessories from the company. The plumber shall advise the company 48 hours in advance of when he expects to make the connection so a representative of the company can inspect the installation. The company must inspect any connection made by the customer prior to trench backfilling.
- G. No substantial addition to the water using equipment or appliances connected to the sewer system shall be made by commercial or industrial customers except upon written notice to and with the written consent of the company.
- H. Any change in the location of an existing service connection and/or service sewer requested by the customer shall be made at the customer's expense.

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Rule 5 INSIDE PIPING AND CUSTOMER SERVICE SEWER

- A. The customer is obligated to construct, repair, and maintain the service sewer from the collecting sewer to the building, and make the connection to the collecting sewer. The customer shall notify the company prior to cleaning or repairing the service sewer.
- B. Construction of the service sewer, and connection to the collecting sewer shall be subject to the inspection and approval of the company. No backfill shall be placed until the work has been inspected by the company. In the event the customer or the customer's agent shall damage a wye branch or saddle, or cause damage to the collecting sewer, then the customer shall be responsible for the cost to repair any such damage, including replacement of pipe or appurtenances as necessary.
- C. Plumbing specifications of all governmental agencies having jurisdiction, and the company's rules, in effect at the time of connection must be met. The company may deny service or may discontinue service where foundation drains, downspouts, or other sources of surface or storm water are permitted to enter the sewer system through either the inside piping or through the building sewer.
- D. A separate and independent service sewer shall generally be required for every building. Exceptions are:
 - (1) When one building stands at the rear of another building on an interior lot where a proper service sewer cannot be constructed through an adjoining easement. In that situation, the service sewer from the front building may be extended to the rear building and it will be considered as one service sewer.
 - (2) When two or more buildings are a part of a complex that cannot be subdivided.

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- E. The service sewer shall be one of the following: ductile iron pipe, vitrified clay sewer pipe (VCP), or polyvinyl chloride pipe (PVC), ASTM specification or equal; or other suitable material approved by the company. Only those jointing materials and methods that are approved by the company may be used. Joints shall be tight and waterproof. Any part of the service sewer that is located within ten (10) feet of a water service pipe shall be constructed of ductile iron or PVC pressure pipe. The pipe shall be bedded according to the manufacturer's specifications, and on undisturbed earth or fill compacted to at least 95% proctor density. Fill may be non-organic soil or aggregate.
- F. The size and slope of the service sewer shall be subject to the approval of the company, but in no event shall the diameter be less than four (4) inches. The slope of such four (4) inch pipe shall not be less than one-eighth (1/8) inch per foot.
- G. Whenever possible the service sewer shall be brought to the building at an elevation below the basement floor. No building sewer shall be laid parallel to or within three (3) feet of any bearing wall. The depth shall be sufficient to afford protection from frost. The service sewer shall be laid at a uniform grade and in straight alignment insofar as possible. Changes in direction shall be made only with properly curved pipes and fittings.
- H. Existing service sewers may be used in connection with new buildings only when they are found on examination and test to meet all requirements of the company.
- I. In any building in which a building drain is too low to permit the required slope of the service sewer, sanitary sewage carried by such drain shall be lifted by approved artificial means and discharged to the service sewer. No water operated sewage ejector shall be used.
- J. All excavations required for the installation of a service sewer and connection to the collecting sewer shall be open trench work unless otherwise approved by the company. Pipe laying and backfill shall be performed in accordance with the latest published engineering specifications of the manufacturer of the materials used, and all applicable local plumbing codes.

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- K. The connection of the service sewer to the collecting sewer shall be made at the wye branch, if such branch is available at a suitable location. If the collecting sewer is vitrified clay pipe of 12" diameter or less and there is no properly located wye branch at a suitable location, a wye branch shall be installed at a location specified by the company. If the collecting sewer is greater than 12" in diameter, or is PVC of any size, a neat hole may be cut at a location specified by the company, and a saddle installed to which the service sewer will be connected. The invert of the service sewer at the point of connection shall be at the centerline or higher elevation of the collecting sewer. The connection shall be secure and watertight. A wye branch or a saddle may be obtained from the company at cost.
- L. Company personnel may not work on piping or facilities not owned by the company unless authorized by the customer.

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Rule 6 IMPROPER OR EXCESSIVE USE

- A. The following requirements for the use of sewer service provided by the company shall be observed. Violation of the requirements will result in the discontinuance of service to the customer or an additional charge where discharge limits are exceeded.
- B. The company may require a customer discharging non-domestic sewage to install a pretreatment facility, grease trap or other device on the premises, to prevent exceedence of discharge limits or other adverse impacts upon the company's system. The installation of any such facility or device as well as its operation and maintenance shall be the responsibility of the customer, and subject to approval and inspection by the company.
- C. No customer shall discharge or cause to be discharged any storm water, surface water, ground water, swimming pool water, roof runoff, sub-surface drainage, or cooling water into the collecting sewers.
- D. The customer shall be required to take any action necessary to meet the following described waste water limits before the wastewater is discharged into the collection sewer:
 - (1) Maximum temperature of 150 degrees Fahrenheit.
 - (2) Maximum strength of 400 parts per million Biological Oxygen Demand (B.O.D.).
 - (3) A maximum of 100 parts per million, by weight, any fat, oil or grease.
 - (4) A maximum of 25 parts per million, by weight, any soluble oils.
 - (5) No gasoline, benzene, naphtha, fuel oil, or other flammable or explosive liquid, solid or gas.

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- (6) No garbage that has not been properly shredded.
- (7) No ashes, cinders, sand, mud, straw, shavings, metal, glass, rags, feathers, tar, plastics, wood or any other solid or viscous substance capable of causing obstruction to the flow in sewers or other interference with the proper operation of the sewer system.
- (8) No waste water having a pH less than 5.0 or greater than 9.0, or having any other corrosive property, capable of causing damage or hazard to structures, equipment or personnel of the company.
- (9) No waste water containing heavy metals, toxic material, or Chemical Oxygen Demand (C.O.D.), in sufficient quantity to disrupt the operation of treatment facilities, or exceeding any limits which may be specified in a service contract for any such substance.

E. When required by the company, the customer service sewer carrying industrial wastes shall include a suitable control manhole in the customer service sewer to facilitate observation, sampling, and measurement of the wastes. Such manhole, when required, shall be accessibly and safely located, and shall be constructed in accordance with plans approved by the company. The manhole shall be installed by the customer at his expense, and shall be maintained by him so as to be safe and accessible at all times.

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Rule 7 DISCONTINUANCE OF SERVICE BY COMPANY

- A. The company reserves the right of discontinuance of service for any of the following reasons:
 - (1) For failure to comply with these rules.
 - (2) For nonpayment of the sewer utility bill (see Rule 9).
 - (3) For resale of sewer service.
 - (4) For an unauthorized service connection to the company's collecting sewer.
- B. For purposes of this rule, discontinuance of sewer service for non-payment of a sewer bill may be accomplished by discontinuance of water service by the customer's water utility at the request of the company. In such cases, customers will be notified by the terms of these rules, and not by those of any water utility.
- C. Discontinuance of service to a customer for violation of these Rules shall not prevent the company from pursuing any lawful remedy by action at law or otherwise for the collection of monies due from the customer.
- D. In the event of discontinuance of service by the company for any violation of these rules, then any monies due the company shall become immediately due and payable.
- E. The company reserves the right of discontinuance of service to a customer, or to refuse service to any applicant or for any unit to protect itself against fraud or abuse.
- F. At least thirty (30) days prior to discontinuance of service, the company will mail a written notice to the customer, and to the property owner if different than the customer, by certified mail, return receipt requested, with a copy of the notice sent to the Public Service Commission. Said notice shall state the nature of the violation,

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the amount of money owed if for a past due bill including the amount of any service charges owed, and that service may be discontinued at any time after the expiration of the notice period, provided satisfactory arrangements for continuance of the service have not been made by the customer. The thirty (30) day notice may be waived if there is any waste discharge that might be detrimental to the health and safety of the public, or cause damage to the sewer system. In the event of discontinuance of service without the thirty (30) day notice as above provided, the customer and the Public Service Commission shall be notified immediately with a statement of the reasons for such discontinuance of service. If service is provided to a multi-tenant building or complex, the company will make an effort to notify tenants by door hangars or other type of notice of the possibility of discontinuance of service.

- G. Reconnection of any customer after discontinuance of service by authority of this rule will be made subject to payment of the cost of reconnection.
- H. Where the owner of rental property is the customer and has been notified of the intent of disconnection, the tenants shall be given the opportunity in a reasonable and timely manner to pay delinquent bills in lieu of disconnection of service.
- I. Termination of service at the customer's request may be accomplished at the expense of the customer, as provided in Rule 9 B.

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Rule 8 INTERRUPTIONS IN SERVICE

- A. The company reserves the right to limit sewer service in its collecting sewers at any time, in a reasonable and non-discriminatory manner, for the purpose of making repairs to the sewer system.
- B. Whenever service is limited for repairs, all customers affected by such limitation will be notified in advance whenever it is possible to do so. Every effort will be made to minimize limitation of service.
- C. No refunds of charges for sewer service will be made for limitations of service unless due to willful misconduct of the company,

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Rule 9 BILLS FOR SERVICE

- A. The charges for sewer service shall be at the rates specified in this tariff, which is on file with the Missouri Public Service Commission and at the company's office. The point of assumption of sewer service shall be at the service connection. Service charges for connection or disconnection are set forth in the Schedule of Service Charges.
- B. A customer who is or has been taking sewer service at one or more units connected to the collecting sewer shall be held liable for payment of any applicable charges for service furnished to such units from the date of connection until the date requested by the customer in writing for service to be terminated, or until service is discontinued by the company. If termination of service must be accomplished by physical disconnection, the customer shall notify the company of the date and time of the disconnect in writing at least five days prior to the disconnection. If termination is accomplished by discontinuance or termination of water service, such notice shall be on or before the date of the water turnoff. Service may not be terminated for one unit of a multi-unit building if the building is served by one service sewer, unless accomplished by discontinuance or termination of water service. The method used for termination of service shall be determined by the company.
- C. Bills for sewer service will be mailed or delivered to the customer's last address as shown by the records of the company, but failure to receive the bill will not relieve the customer from the obligation to pay the same.
- D. Payments shall be made at the office of the company or at a convenient location designated by the company, or by mailing to the company's office.
- E. Separate bills shall be rendered for each location at which sewer service is provided, even though one entity may be the customer at such separate locations.

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- F. The company shall have the right to render bills monthly in advance. Bills shall have the due date indicated on the bill. The company shall have the right to charge customers on a monthly basis in arrears when the sewer charges are based on water usage.
- G. Neither the company nor the customer will be bound by bills rendered under mistake of fact as to the quantity of service rendered or as a result of clerical error. Customers will be held responsible for charges based on service provided.
- H. All bills for sewer service become delinquent after the due date stated on the bill. Service may be discontinued after thirty (30) days written notice by certified mail return receipt requested from the company as provided by Rule 7, Discontinuance of Service by Company.
- I. When bills are rendered for a period of less than a complete billing period due to the connection or termination of service, the billing shall be for the proportionate part of the monthly charge, or where water usage is the basis for the charge, at the appropriate rate for water used. Customers terminating after taking service for less than one month shall pay not less than the monthly minimum.
- J. The owner of the property served will be held responsible for ultimate payment of a bill. Copies of all notices of violations of the rules, or of disconnection of service shall also be sent to the owner of the property.

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14644 Hwy T, Perryville, MO 63775
Company Address

Filed
MO PSC

PORT PERRY SERVICE COMPANY For:
Name of Issuing Company

PORT PERRY
Certificated Service Area

**Rules and Regulations Governing
the Rendering of Sewer Service**

Rule 10 SPECIAL CONTRACT FOR EXCESSIVE CAPACITY

A. In the event that the customer to be served proposes to discharge into the company's system an abnormally high volume or strength of waste as to require an enlargement of the company's existing sewage treatment plant or the construction of a temporary sewage treatment plant, and/or the construction or reconstruction of sewer lines or pump facilities, service shall be provided to such customer under the terms and conditions of a mutually satisfactory contract, in a form approved by the Public Service Commission, pursuant to which the cost of such improvements will be financed in such a manner as to be fair and reasonable to both parties and so as not to constitute a burden upon the company or the existing customers of the company.

* Indicates new rate or text
+ Indicates change

Date of Issue April 15, 2002
Month Day Year

Date Effective May 15, 2002
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**Rules and Regulations Governing
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Rule 11 EXTENSION OF COLLECTING SEWERS

- A. Collecting sewers will be extended within the company's certificated service area, at the applicant's cost , if service is requested by the applicant at a location where facilities do not exist (the "applicant" is sometimes referred to in this rule as the "original applicant"). The applicant shall enter into a contract with the company. The applicant may choose to have the company perform all work under the terms and conditions of Paragraph C, following, or have a private contractor perform the work under the terms and conditions of Paragraph D, following. For purposes of this rule, an extension could include, in addition to a collecting sewer, one or more pump station or treatment plant facilities, as necessary to provide the service.
- B. The pipe used in making extensions shall be of a type and size that will be reasonably adequate for the area to be served. Such determination as to size and type of pipe shall be left solely to the judgment of the company. If the company desires a pipe size, lift station, treatment plant, or any other facility larger than reasonably required to provide service to the applicant, the additional cost due to larger size shall be borne by the company.
- C. The company will extend collecting sewers for the applicant under the following terms and conditions:
 - (1) Upon receipt of written application for service as provided in Rule 4, Applications for Service, the company will provide the applicant an itemized estimate of the cost of the proposed extension. Said estimate shall include the cost of all labor and materials required, including reconstruction of existing facilities if necessary, and the direct costs associated with supervision, engineering, permits, and bookkeeping. Applicable income tax cost calculated at the maximum rate will be added to this estimate.

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- (2) The applicant shall enter into a contract with the company for the installation of said extension and shall tender to the company a contribution-in-aid-of-construction equal to the amount determined in Paragraph C (1) above, plus any appropriate fees as provided in the Schedule of Rates or the Schedule of Service Charges.
- (3) If, as a result of reasonably unforeseen circumstances, the actual cost of the extension exceeds the estimated cost of the extension, the applicant shall pay the additional cost.

D. When the applicant elects to construct an extension, the company will connect said extension to its existing collecting sewers under the following terms and conditions:

- (1) Applicant shall enter into a contract with the company that provides that the applicant construct said collecting sewers and/or other facilities to meet the requirements of all governmental agencies and the company's rules. Plans for the extension shall be submitted to the company for approval prior to construction. Applicant's choice of construction contractor is subject to approval by the company. Applicant shall contribute said facilities to the company with a detailed accounting of the actual cost of construction, contribute to the company an amount equal to the company's estimated income tax cost calculated at the maximum rate, and contribute to the company the estimated cost of the company's inspection.
- (2) The company, or its representative, shall have the right to inspect and test the extension prior to connecting it to the existing collecting sewers and acceptance of ownership.
- (3) Connection of the extension to existing company collecting sewers shall be made only by representatives of the company.

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(4) The company shall have the right to refuse ownership and responsibility for the sewer extension until applicant has met the contractual obligations as provided in Paragraph D (1).

E. The cost to additional applicants connecting to the sewer contributed by the original applicant shall be as follows:

(1) For a single-family residential applicant applying for service in a platted subdivision, the company shall divide the actual cost of the extension, including income taxes, by the number of lots abutting said extension to determine the per lot extension cost. When counting lots, corner lots that abut existing sewers shall be excluded.

(2) For a single-family residential applicant requesting service to areas that are not platted in subdivision lots, the applicant's cost shall be equal to the total cost of the extension times 100 feet divided by the total length of the extension in feet.

(3) For an industrial, commercial, or multi-family residential applicant, the cost will be equal to the amount calculated for a single-family residence in E (1) above or E (2) above, as appropriate, multiplied by a water usage factor. The water usage factor shall be determined by dividing the average monthly usage in gallons by 7,000 gallons, but shall not be less than 1.

F. Refunds of contributions shall be made to the original applicant as follows:

(1) Should the actual cost of an extension constructed by the company under Paragraph C, or actual costs for inspection by the company under Paragraph D, above, be less than the estimated cost, the company shall refund the difference as soon as the actual cost has been ascertained.

(2) After the company has closed its books for the year, in which a contribution was made, it will determine its actual income tax cost associated with each extension and refund any excess income tax costs collected from the applicant.

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- (3) During the first ten years after the extension is completed, the company will refund to the original applicant who paid for the extension monies collected from additional applicants in accordance with Paragraph E above.
- (4) The sum of all refunds to the applicant shall not exceed the total contribution, including income tax and inspection costs associated with the extension, which the applicant has paid.
- (5) If two or more entities are considered an original applicant, the refund shall be distributed to each entity based upon the percentage of the actual extension cost contributed by each entity.

G. Any extension made under this rule shall be and remain the property of the company in consideration of its perpetual upkeep and maintenance.

H. The company reserves the right to connect additional extensions to a collecting sewer contributed by the applicant. The connection of new customers to such additional extensions shall not entitle the applicant to any refund.

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Rule 12 PRESSURE SEWERS

- (A) This rule applies to customers on a pressurized collection system and is not applicable to customers on a gravity collection system. All rules not specifically applicable to gravity flow sewers and service sewers are also applicable.
- (B) The Customer must furnish at his own expense, one effluent pump unit of suitable capacity which must either be furnished through or be approved by the Company prior to installation on the Customer's premises. Installation costs of the pump unit, electrical service and service sewers between the dwelling and the pump unit and Company's collecting sewers shall be the responsibility of the Customer. Electricity costs for pump operation shall be the responsibility of the Customer.
- (C) All components utilized in an effluent pump unit must be either purchased from the Company or meet its specifications which shall be on file at the Company's office. Emergency service and other repair work may not be available on effluent pumps not purchased through the company.
- (D) Any residential customer connected or to be connected to a sewer collection system designed to transport liquid sewage shall install within the lot, a collection tank and one effluent pump adequate for service to a single family residence, with access for inspection and pumping of residual solids. Smaller commercial customers requiring treatment of less than 1,200 gallons per day shall install a collection tank and effluent pump of adequate capacity for the maximum flow to be discharged from the unit or building. The service sewer from the unit or building shall drain into the tank, and the service sewer from the tank outlet shall be connected to the company's collecting sewer. Perforated drain field piping shall not be utilized for a service sewer. The tank, required parts and fittings, service sewer piping, and labor required for

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installation shall be furnished and installed by the customer, and meet the specifications of the company.

- (E) The Company will locate the point to which the service connection will be made and the Customer shall furnish materials for connection from the effluent pump unit to the Company's collecting sewers, which shall be located in a public street or easement. All taps are to be done by a licensed plumber. Application, accompanied by any authorized service line tap fee, must be filed in writing at the Company's business office during normal business hours, 48 hours in advance, stating the street, house number, name of applicant, name of property owner and time at which tap is to be made, and the Company shall not be required to supply sewer service unless these condition are met. One connection shall not service more than one property.
- (F) A stopcock shall be placed on the service connection. Said stopcock shall include a provision for locking. The stopcock will be furnished, owned and maintained by the Company.
- (G) In all cases of discontinuance of sewer service pursuant to the Company's approved rules, sewer service may be disconnected by the Company by locking the stopcock in the closed position. Service shall not be resumed again except upon payment of all delinquent charges, plus any applicable approved service charge to cover the costs of effectuating resumption of service.
- (H) The gravity service sewer from the building to the effluent pump unit, the tank, and the pressure service sewer from the pump unit to the collecting sewer shall be owned and maintained by the Customer. The Customer shall also install a check valve near the service connection.
- (I) The Company may perform two preventive maintenance calls per year on each

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effluent pump unit in service; however, preventive maintenance may not be performed on hybrid pumps. Preventive maintenance includes, but is not limited to, the following work:

1. Pull and clean liquid level control device.
2. Run controls, including alarm system, through one complete cycle.
3. Check the check valves for proper operation. Clean or replace as necessary.
4. Check, and if necessary, inform Customer of the need to remove solid waste from tank.

(K) The Company shall perform emergency repairs on repairable parts of any effluent pump furnished through the company. To the extent that it is able, the Company shall also perform emergency repairs on repairable parts of hybrid pumps.

(L) The Company shall not be liable for parts or labor necessary due to damage caused by misuse of the pump unit by the Customer.

(M) The Company shall present to the Customer, at the time of application for service, information regarding what services are available from the Company, and what will be provided free of charge.

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Appendix 7.09

MDNR NPDES Operating Permit

STATE OF MISSOURI

DEPARTMENT OF NATURAL RESOURCES

MISSOURI CLEAN WATER COMMISSION



MISSOURI STATE OPERATING PERMIT

In compliance with the Missouri Clean Water Law, (Chapter 644 R.S. Mo. as amended, hereinafter, the Law), and the Federal Water Pollution Control Act (Public Law 92-500, 92nd Congress) as amended,

Permit No. MO-0116998

Owner: Michael Yamnitz and Brad Moll
Address: PO Box 43, Perryville, MO, 63775

Continuing Authority: Same as above
Address: Same as above

Facility Name: Port Perry Service Company
Facility Address: 460 Lake Perry Lane, Perryville, MO, 63775

Legal Description: SE ¼, NE ¼, Sec. 08, T34N, R9E, Perry County
UTM Coordinates: X= 759731, Y= 4172557

Receiving Stream: Nations Creek (C)
First Classified Stream and ID: Nations Creek (C) (1780)
USGS Basin & Sub-watershed No.: (07140105-0108)

is authorized to discharge from the facility described herein, in accordance with the effluent limitations and monitoring requirements as set forth herein:

FACILITY DESCRIPTION

See Page 2

This permit authorizes only wastewater discharges under the Missouri Clean Water Law and the National Pollutant Discharge Elimination System; it does not apply to other regulated areas. This permit may be appealed in accordance with Section 644.051.6 of the Law.

December 1, 2013
Effective Date

Sara Parker Pauley, Director, Department of Natural Resources

November 30, 2018
Expiration Date

John Madras, Director, Water Protection Program

FACILITY DESCRIPTION (continued)

Outfall #001 –Commercial Property– SIC #1629

The use or operation of this facility shall be by or under the supervision of a Certified "D" Operator

Four cell storage lagoon/wastewater irrigation/sludge is retained in lagoon

Design population equivalent is 740.

Design flow is 74,000 gallons per day (1-in-10 year design including net rainfall minus evaporation).

Actual flow is 10,000 gallons per day.

Design sludge production is 11.1 dry tons per year.

Legal Description: SE ¼, NE ¼, Sec. 08, T34N, R9E, Perry County

UTM Coordinates: X= 759731, Y= 4172557

Receiving Stream: Nations Creek (C)

First Classified Stream and ID: Nations Creek (C) (1780)

USGS Basin & Sub-watershed No.: (07140105-0108)

Receiving Stream Watershed: a gaining stream setting that flows into Nations Creek.

Facility Type:

No-discharge Storage and Irrigation System for seasonal flows into gaining stream.

Land Application:

Irrigation Volume/year: 3,662,320 gallons at design loading (including 1-in-10 year flows)

Irrigation areas: 1 acre at design loading (3 acres total available)

Application rates: 0.12 inch/hour; 1.0 inch/day; 3.0 inches/week; 20 inches/year

Field slopes: less than _____ percent

Equipment type: sprinklers

Vegetation: grass hay

Application rate is based on: Hydraulic loading rate

PERMITTED FEATURE #001	TABLE A-1. IRRIGATION SYSTEM LIMITATIONS AND MONITORING REQUIREMENTS					
	EFFLUENT PARAMETER(S)	UNITS	FINAL LIMITATIONS			MONITORING REQUIREMENTS
DAILY MAXIMUM			WEEKLY AVERAGE	MONTHLY AVERAGE	MEASUREMENT FREQUENCY	SAMPLE TYPE
The permittee is authorized to conduct land application of wastewater as specified in the application for this permit. The final limitations shall become effective upon issuance and remain in effect until expiration of the permit. The land application of wastewater shall be controlled, limited and monitored by the permittee as specified below:						
Storage Basin Operational Monitoring (Notes 1 & 2)						
Storage Basin Freeboard (Note 3)	feet	*			once/month	measured
Precipitation	inches	*			daily	total
MONITORING REPORTS SHALL BE SUBMITTED <u>ANNUALLY</u> ; THE FIRST REPORT IS DUE <u>JANUARY 28, 2015</u> .						

PERMITTED FEATURE #001	TABLE A-2. IRRIGATION SYSTEM LIMITATIONS AND MONITORING REQUIREMENTS				PAGE NUMBER 3 of 6	
					PERMIT NUMBER MO-0116998	
The permittee is authorized to conduct land application of wastewater as specified in the application for this permit. The final limitations shall become effective upon issuance and remain in effect until expiration of the permit. The land application of wastewater shall be controlled, limited and monitored by the permittee as specified below:						
EFFLUENT PARAMETER(S)	UNITS	FINAL LIMITATIONS			MONITORING REQUIREMENTS	
		DAILY MAXIMUM	WEEKLY AVERAGE	MONTHLY AVERAGE	MEASUREMENT FREQUENCY	SAMPLE TYPE
Land Application Operational Monitoring (Note 2)						
Irrigation Period	hours	*			daily	total
Volume Irrigated	gallons	*			daily	total
Application Area	acres	*			daily	total
Application Rate	inches	*			daily	total
MONITORING REPORTS SHALL BE SUBMITTED <u>ANNUALLY</u> ; THE FIRST REPORT IS DUE <u>JANUARY 28, 2015</u> .						

* Monitoring requirement only.

** See table below for quarterly sampling

Minimum Sampling Requirements			
Quarter	Months	Parameters	Report is Due
First	January, February, March	Sample at least once during any month of the quarter	April 28 th
Second	April, May, June	Sample at least once during any month of the quarter	July 28 th
Third	July, August, September	Sample at least once during any month of the quarter	October 28 th
Fourth	October, November, December	Sample at least once during any month of the quarter	January 28 th

Note 1 - **No-discharge facility requirements.** Wastewater shall be stored and land applied during suitable conditions so that there is no discharge from the storage basin(s) or irrigation site. An emergency discharge may occur when excess wastewater has accumulated above feasible irrigation rates due to precipitation exceeding the 1-in-10-year, 365-day rainfall or the 25-year, 24-hour storm event.

Note 2 - Records shall be maintained and summarized into an annual operating report, which shall be submitted by January 28th of each year for the previous calendar year period using report forms approved by the Department. The summarized annual report is in addition to the reporting requirements listed in Table A. The summarized annual report shall include the following:

- Record of maintenance and repairs performed during the year, average number of times per month the facility is checked to see if it is operating properly, and description of any unusual operating conditions encountered during the year;
- The number of days the storage basin(s) has discharged during the year, the discharge flow, the reasons discharge occurred and effluent analysis performed; and
- A summary of the irrigation operations including freeboard at the start and end of the irrigation season, the number of days of irrigation for each month, the total gallons irrigated, the total acres used, crops grown, crop yields per acre, the application rate in inches/acre per day and for the year, the monthly and annual precipitation received at the facility, a summary of testing results for wastewater and soils, and calculations for nitrogen applied and crop removal of nitrogen.

Note 3 - Storage Basin freeboard shall be reported as Storage Basin water level in feet below the overflow level. See Special Conditions for Wastewater Irrigation System requirements.

C. STANDARD CONDITIONS

In addition to specified conditions stated herein, this permit is subject to the attached Parts I & III standard conditions dated November 1, 2013, and August 15, 1994, and hereby incorporated as though fully set forth herein.

D. SPECIAL CONDITIONS

1. **Emergency Discharge.** An emergency discharge from wastewater storage structures may only occur if rainfall exceeds the 1 in 10 year (Data taken from the Missouri Climate Atlas) or the 24 hour, 25 year (Data taken from NRCS Urban Hydrology for Small Watersheds) rainfall events. **Discharge for any other reason shall constitute a permit violation and shall be reported in accordance with Standard Conditions, Part 1, Section B.2.b.** Monitoring shall take place once per day while discharging. Test results are due on the 28th day of the month after the cessation of the discharge. Permittee shall monitor for the following constituents:

Constituent	Units
Flow	MGD
Biochemical Oxygen Demand ₅	mg/L
Total Suspended Solids	mg/l
Ammonia as N	mg/L
pH – Units	SU
Oil & Grease	mg/L
E. coli	#/100mL

2. This permit may be reopened and modified, or alternatively revoked and reissued, to:
- Comply with any applicable effluent standard or limitation issued or approved under Sections 301(b)(2)(C) and (D), 304(b)(2), and 307(a) (2) of the Clean Water Act, if the effluent standard or limitation so issued or approved:
 - contains different conditions or is otherwise more stringent than any effluent limitation in the permit; or
 - controls any pollutant not limited in the permit.
 - Incorporate new or modified effluent limitations or other conditions, if the result of a waste load allocation study, toxicity test or other information indicates changes are necessary to assure compliance with Missouri's Water Quality Standards.
 - Incorporate new or modified effluent limitations or other conditions if, as the result of a watershed analysis, a Total Maximum Daily Load (TMDL) limitation is developed for the receiving waters which are currently included in Missouri's list of waters of the state not fully achieving the state's water quality standards, also called the 303(d) list.

The permit as modified or reissued under this paragraph shall also contain any other requirements of the Clean Water Act then applicable.

3. All permitted features s must be clearly marked in the field. The permitted features and land application fields shall also be marked on the aerial or topographic site map included with the Operation and Maintenance manual.
4. Permittee will cease discharge by connection to a facility with an area-wide management plan per 10 CSR 20-6.010(3)(B) within 90 days of notice of its availability.
5. **Water Quality Standards**
- To the extent required by law, discharges to waters of the state shall not cause a violation of water quality standards rule under 10 CSR 20-7.031, including both specific and general criteria.
 - General Criteria. The following general water quality criteria shall be applicable to all waters of the state at all times including mixing zones. No water contaminant, by itself or in combination with other substances, shall prevent the waters of the state from meeting the following conditions:
 - Waters shall be free from substances in sufficient amounts to cause the formation of putrescent, unsightly or harmful bottom deposits or prevent full maintenance of beneficial uses;
 - Waters shall be free from oil, scum and floating debris in sufficient amounts to be unsightly or prevent full maintenance of beneficial uses;
 - Waters shall be free from substances in sufficient amounts to cause unsightly color or turbidity, offensive odor or prevent full maintenance of beneficial uses;
 - Waters shall be free from substances or conditions in sufficient amounts to result in toxicity to human, animal or aquatic life;
 - There shall be no significant human health hazard from incidental contact with the water;
 - There shall be no acute toxicity to livestock or wildlife watering;

D. SPECIAL CONDITIONS (continued)

- (7) Waters shall be free from physical, chemical or hydrologic changes that would impair the natural biological community;
- (8) Waters shall be free from used tires, car bodies, appliances, demolition debris, used vehicles or equipment and solid waste as defined in Missouri's Solid Waste Law, section 260.200, RSMo, except as the use of such materials is specifically permitted pursuant to section 260.200-260.247.

6. Changes in Discharges of Toxic Substances

The permittee shall notify the Director as soon as it knows or has reason to believe:

- (a) That any activity has occurred or will occur which would result in the discharge of any toxic pollutant which is not limited in the permit, if that discharge will exceed the highest of the following "notification levels:"
 - (1) One hundred micrograms per liter (100 µg/L);
 - (2) Two hundred micrograms per liter (200 µg/L) for acrolein and acrylonitrile; five hundred micrograms per liter (500 µg/L) for 2,5 dinitrophenol and for 2-methyl-4, 6-dinitrophenol; and one milligram per liter (1 mg/L) for antimony;
 - (3) Five (5) times the maximum concentration value reported for the pollutant in the permit application;
 - (4) The level established by the Director in accordance with 40 CFR 122.44(f).
- (b) That they have begun or expect to begin to use or manufacture as an intermediate or final product or byproduct any toxic pollutant, which was not reported in the permit application.

7. Report as no-discharge when a discharge does not occur during the report period.
8. It is a violation of the Missouri Clean Water Law to fail to pay fees associated with this permit (644.055 RSMo).
9. Bypasses are not authorized at this facility and are subject to 40 CFR 122.41(m). If a bypass occurs, the permittee shall report in accordance to 40 CFR 122.41(m)(3)(i), and with Standard Condition Part I, Section B, subsection 2.b. Bypasses are to be reported to the St. Louis Regional Office.
10. The facility must be sufficiently secured to restrict entry by children, livestock and unauthorized persons as well as to protect the facility from vandalism.
11. A least one gate must be provided to access the wastewater treatment facility and provide for maintenance and mowing. The gate shall remain locked except when opened by the permittee to perform operational monitoring, sampling, maintenance, mowing, or for inspections by the Department.
12. At least one (1) warning sign shall be placed on each side of the facility enclosure in such positions as to be clearly visible from all directions of approach. There shall also be one (1) sign placed for every five hundred feet (500') (150 m) of the perimeter fence. A sign shall also be placed on each gate. Minimum wording shall be SEWAGE TREATMENT FACILITY—KEEP OUT. Signs shall be made of durable materials with characters at least two inches (2") high and shall be securely fastened to the fence, equipment or other suitable locations.
13. The permittee shall develop, maintain and implement an Operation and Maintenance (O&M) Manual that includes all necessary items to ensure the operation and integrity of the waste handling and land application systems, including key operating procedures, an aerial or topographic site map with the permitted features, land application fields, and irrigation buffer zones marked, and a brief summary of the operation of the facility. The O & M manual shall be made available to the operator. A copy of the O&M Manual shall be submitted to the Southeast Regional Office for review and approval by (February 1, 2014). Copies of subsequent revisions shall be submitted to the Southeast Regional Office within 30 days of revision. The O&M Manual shall be reviewed and updated at least every five years.
14. An all-weather access road shall be provided to the treatment facility.
15. The berms of the storage basin(s) shall be mowed and kept free of any deep-rooted vegetation, animal dens, or other potential sources of damage to the berms.
16. The facility shall ensure that adequate provisions are provided to prevent surface water intrusion into the storage basin(s) and to divert stormwater runoff around the storage basin(s) and protect embankments from erosion.

C. SPECIAL CONDITIONS (continued)

17. Wastewater Irrigation System.

- (a) Discharge Reporting. Any unauthorized discharge from the storage basin(s) or irrigation system shall be reported to the department as soon as possible but always within 24 hours. Discharge is allowed only as described in the Facility Description and Effluent Limitations sections of this permit.
- (b) Storage Basin Operating Levels - No-discharge Systems. The minimum and maximum operating water levels for the storage basin(s) shall be clearly marked. Each storage basin shall be operated so that the maximum water elevation does not exceed one foot below the Emergency Spillway except due to exceedances of the 1-in-10 year, 365-day or 25-year, 24-hour storm events according to National Weather Service data. Wastewater shall be land applied whenever feasible based on soil and weather conditions and permit requirements. Storage basin(s) shall be lowered to the minimum operating level prior to each winter by November 30.
- (c) Emergency Spillway. Lagoons and earthen storage basins should have an emergency spillway to protect the structural integrity of earthen structures during operation at near full water levels and in the event of overflow conditions. The spillway shall be at least one foot below top of berm.
- (d) General Irrigation Requirements. The wastewater irrigation system shall be operated so as to provide uniform distribution of irrigated wastewater over the entire irrigation site. A complete ground cover of vegetation shall be maintained on the irrigation site unless the system is approved for row crop irrigation. **Wastewater shall be land applied only during daylight hours.** The wastewater irrigation system shall be capable of irrigating the annual design flow during an application period of less than 100 days or 800 hours per year.
- (e) Saturated/Frozen Conditions. There shall be no irrigation during ground frost, frozen, snow covered, or saturated soil conditions, or when precipitation is imminent or occurring.
- (f) Buffer Zones. There shall be no irrigation within 300 feet of any down gradient pond, lake, sinkhole, losing stream or water supply withdrawal; 100 feet of gaining streams or tributaries; 150 feet of dwelling or public use areas; or 50 feet of the property line.
- (g) Public Access Restrictions. Public access shall not be allowed to public use area irrigation sites when application is occurring.
- (h) Irrigated Wastewater Disinfection. Wastewater shall be disinfected prior to land application (not storage) to public use areas. This permit does not authorize land application to a public use area at this time.
- (k) Equipment Checks during Irrigation. The irrigation system and application site shall be visually inspected at least once/day during wastewater irrigation to check for equipment malfunctions and runoff from the irrigation site.

18. Land Application Sites. To add additional land application sites or convert any of the land to public use areas, a construction permit and permit modification may be required. The facility shall contact the Department for a written determination. Additionally, the O&M Manual shall be updated to include the additional land application site(s) and a copy of the updated sections of the O&M Manual shall be submitted to the Southeast Regional Office in accordance with Special Condition #13.

MISSOURI DEPARTMENT OF NATURAL RESOURCES
FACT SHEET
FOR THE PURPOSE OF RENEWAL
OF
MO-0116998
PORT PERRY SERVICE COMPANY

The Federal Water Pollution Control Act ("Clean Water Act" Section 402 Public Law 92-500 as amended) established the National Pollution Discharge Elimination System (NPDES) permit program. This program regulates the discharge of pollutants from point sources into the waters of the United States, and the release of storm water from certain point sources. All such discharges are unlawful without a permit (Section 301 of the "Clean Water Act"). After a permit is obtained, a discharge not in compliance with all permit terms and conditions is unlawful. Missouri State Operating Permits (MSOPs) are issued by the Director of the Missouri Department of Natural Resources (Department) under an approved program, operating in accordance with federal and state laws (Federal "Clean Water Act" and "Missouri Clean Water Law" Section 644 as amended). MSOPs are issued for a period of five (5) years unless otherwise specified.

As per [40 CFR Part 124.8(a)] and [10 CSR 20-6.020(1)2.] a Factsheet shall be prepared to give pertinent information regarding the applicable regulations, rationale for the development of effluent limitations and conditions, and the public participation process for the Missouri State Operating Permit (operating permit) listed below.

A Factsheet is not an enforceable part of an operating permit.

This Factsheet is for a Minor

Part I – Facility Information

Outfall #001 –Commercial Property– SIC #1629

The use or operation of this facility shall be by or under the supervision of a Certified "D" Operator

Four cell storage lagoon / wastewater irrigation / sludge is retained in lagoon

Design population equivalent is 740.

Design flow is 74,000 gallons per day (1-in-10 year design including net rainfall minus evaporation).

Actual flow is 10,000 gallons per day.

Design sludge production is 11.1 dry tons per year.

Legal Description: SE ¼, NE ¼, Sec. 08, T34N, R9E, Perry County

UTM Coordinates: X= 759731, Y= 4172557

Receiving Stream: Nations Creek (C)

First Classified Stream and ID: Nations Creek (C) (1780)

USGS Basin & Sub-watershed No.: (07140105-0108)

Receiving Stream Watershed: a gaining stream setting that flows into Nations Creek.

Facility Type:

No-discharge Storage and Irrigation System for seasonal flows into gaining stream.

Land Application:

Irrigation Volume/year: 3,662,320 gallons at design loading (including 1-in-10 year flows)

Irrigation areas: 1 acre at design loading (3 acres total available)

Application rates: 0.12 inch/hour; 1.0 inch/day; 3.0 inches/week; 20 inches/year

Equipment type: sprinklers

Vegetation: grass hay

Application rate is based on: Hydraulic loading rate

Have any changes occurred at this facility or in the receiving water body that effects effluent limit derivation?

- No.

Application Date: 11/14/12

Expiration Date: 12/05/12

PERMITTED FEATURES TABLE:

OUTFALL	DESIGN FLOW (CFS)	TREATMENT LEVEL	EFFLUENT TYPE
#001	0.11	Equivalent to Secondary	Domestic

Facility Performance History:

This facility was last inspected on March 01, 2011. The inspection showed the following unsatisfactory features; woody material (brush) was observed growing near the water's edge in many locations. Heavy brush was observed in one corner of cell 4 and small trees were growing in the center of cell 2.

Part II – Operator Certification Requirements

Applicable ; This facility is required to have a certified operator.

As per [10 CSR 20-6.010(8) Terms and Conditions of a Permit], permittees shall operate and maintain facilities to comply with the Missouri Clean Water Law and applicable permit conditions and regulations. Operators or supervisors of operations at regulated wastewater treatment facilities shall be certified in accordance with [10 CSR 20-9.020(2)] and any other applicable state law or regulation. As per [10 CSR 20-9.020(2)(A)], requirements for operation by certified personnel shall apply to all wastewater treatment systems, if applicable, as listed below:

Check boxes below that are applicable to the facility;

- Owned or operated by or for:
 - Municipalities
 - Public Sewer District:
 - County
 - Public Water Supply Districts:
 - Private sewer company regulated by the Public Service Commission:
 - State or Federal agencies:

Each of the above entities are only applicable if they have a Population Equivalent greater than two hundred (200) and/or fifty (50) or more service connections.

This facility currently requires an operator with a (D) Certification Level. Please see Appendix - Classification Modifications made to the wastewater treatment facility may cause the classification to be modified.

Operator's Name: Jeremy Meyer
 Certification Number: 3665
 Certification Level: A

The listing of the operator above only signifies that staff drafting this operating permit have reviewed appropriate Department records and determined that the name listed on the operating permit application has the correct and applicable Certification Level.

Part III– Operational Monitoring

As per [10 CSR 20-9.010(4)], the facility is required to conduct operational monitoring.

Part IV – Receiving Stream Information

10 CSR 20-7.031 Missouri Water Quality Standards, the Department defines the Clean Water Commission water quality objectives in terms of "water uses to be maintained and the criteria to protect those uses." The receiving stream and/or 1st classified receiving stream's beneficial water uses to be maintained are located in the Receiving Stream Table located below in accordance with [10 CSR 20-7.031(3)].

RECEIVING STREAM(S) TABLE: OUTFALL #001

WATER-BODY NAME	CLASS	WBID	DESIGNATED USES*	12-DIGIT HUC	DISTANCE TO CLASSIFIED SEGMENT (MI)
Nations Creek	C	1780	LWW, AQL, WBC (B)	07140105-0108	0.0

* - Irrigation (IRR), Livestock & Wildlife Watering (LWW), Protection of Warm Water Aquatic Life and Human Health-Fish Consumption (AQL), Cool Water Fishery (CLF), Cold Water Fishery (CDF), Whole Body Contact Recreation (WBC), Secondary Contact Recreation (SCR), Drinking Water Supply (DWS), Industrial (IND), Groundwater (GRW).
 ** - Ecological Drainage Unit

Receiving Water Body's Water Quality

Nations Creek is not currently on the 2012 EPA approved 303(d) list. No stream survey was found in the data base.

Part V – Rationale and Derivation of Effluent Limitations & Permit Conditions

ALTERNATIVE EVALUATIONS FOR NEW FACILITIES:

As per [10 CSR 20-7.015(4)(A)], discharges to losing streams shall be permitted only after other alternatives including land application, discharges to a gaining stream and connection to a regional wastewater treatment facility have been evaluated and determined to be unacceptable for environmental and/or economic reasons.

Not Applicable ; The facility does not discharge to a Losing Stream as defined by [10 CSR 20-2.010(36)] & [10 CSR 20-7.031(1)(N)], or is an existing facility.

ANTI-BACKSLIDING:

A provision in the Federal Regulations [CWA §303(d)(4); CWA §402(c); 40 CFR Part 122.44(I)] that requires a reissued permit to be as stringent as the previous permit with some exceptions.

- All limits in this operating permit are at least as protective as those previously established; therefore, backsliding does not apply.

ANTIDEGRADATION:

In accordance with Missouri's Water Quality Standard [10 CSR 20-7.031(2)], the Department is to document by means of Antidegradation Review that the use of a water body's available assimilative capacity is justified. Degradation is justified by documenting the socio-economic importance of a discharging activity after determining the necessity of the discharge.

- No degradation proposed and no further review necessary. Facility did not apply for authorization to increase pollutant loading or to add additional pollutants to their discharge.

AREA-WIDE WASTE TREATMENT MANAGEMENT & CONTINUING AUTHORITY:

As per [10 CSR 20-6.010(3)(B)], ...An applicant may utilize a lower preference continuing authority by submitting, as part of the application, a statement waiving preferential status from each existing higher preference authority, providing the waiver does not conflict with any area-wide management plan approved under section 208 of the Federal Clean Water Act or any other regional sewage service and treatment plan approved for higher preference authority by the Department.

BIOSOLIDS & SEWAGE SLUDGE:

Biosolids are solid materials resulting from domestic wastewater treatment that meet federal and state criteria for beneficial uses (i.e. fertilizer). Sewage sludge is solids, semi-solids, or liquid residue generated during the treatment of domestic sewage in a treatment works; including but not limited to, domestic septage; scum or solids removed in primary, secondary, or advanced wastewater treatment process; and a material derived from sewage sludge. Sewage sludge does not include ash generated during the firing of sewage sludge in a sewage sludge incinerator or grit and screening generated during preliminary treatment of domestic sewage in a treatment works. Additional information regarding biosolids and sludge is located at the following web address: <http://dnr.mo.gov/env/wpp/pub/index.html>, items WQ422 through WQ449.

- Permittee is not authorized to land apply biosolids. Sludge/biosolids are removed by contract hauler, incinerated, stored in the lagoon, etc.

COMPLIANCE AND ENFORCEMENT:

Enforcement is the action taken by the Water Protection Program (WPP) to bring an entity into compliance with the Missouri Clean Water Law, its implementing regulations, and/or any terms and conditions of an operating permit. The primary purpose of the enforcement activity in the WPP is to resolve violations and return the entity to compliance.

Not Applicable ; The permittee/facility is not currently under Water Protection Program enforcement action.

PRETREATMENT PROGRAM:

The reduction of the amount of pollutants, the elimination of pollutants, or the alteration of the nature of pollutant properties in wastewater prior to or in lieu of discharging or otherwise introducing such pollutants into a Publicly Owned Treatment Works [40 CFR Part 403.3(q)].

Not Applicable ; The permittee, at this time, is not required to have a Pretreatment Program or does not have an approved pretreatment program.

REASONABLE POTENTIAL ANALYSIS (RPA):

Federal regulation [40 CFR Part 122.44(d)(1)(i)] requires effluent limitations for all pollutants that are or may be discharged at a level that will cause or have the reasonable potential to cause or contribute to an in-stream excursion above narrative or numeric water quality standard.

Not Applicable ; A RPA was not conducted for this facility.

REMOVAL EFFICIENCY:

Removal efficiency is a method by which the Federal Regulations define Secondary Treatment and Equivalent to Secondary Treatment, which applies to Biochemical Oxygen Demand 5-day (BOD₅) and Total Suspended Solids (TSS) for Publicly Owned Treatment Works (POTWs)/municipals.

Not Applicable ; Influent monitoring is not required. Also facility has no discharge, therefore percent removal is not applicable.

SANITARY SEWER OVERFLOWS (SSO) AND INFLOW AND INFILTRATION (I&I):

Sanitary Sewer Overflows (SSOs) are defined as an untreated or partially treated sewage release are considered bypassing under state regulation [10 CSR 20-2.010(11)] and should not be confused with the federal definition of bypass. SSO's have a variety of causes including blockages, line breaks, and sewer defects that allow excess storm water and ground water to (1) enter and overload the collection system, and (2) overload the treatment facility. Additionally, SSO's can be also be caused by lapses in sewer system operation and maintenance, inadequate sewer design and construction, power failures, and vandalism. SSOs also include overflows out of manholes and onto city streets, sidewalks, and other terrestrial locations.

Additionally, Missouri RSMo §644.026.1 mandates that the Department require proper maintenance and operation of treatment facilities and sewer systems and proper disposal of residual waste from all such facilities.

- Not applicable. This facility is not required to develop or implement a program for maintenance and repair of the collection system; however, it is a violation of Missouri State Environmental Laws and Regulations to allow untreated wastewater to discharge to waters of the state.

SCHEDULE OF COMPLIANCE (SOC):

A schedule of remedial measures included in a permit, including an enforceable sequence of interim requirements (actions, operations, or milestone events) leading to compliance with the Missouri Clean Water Law, its implementing regulations, and/or the terms and conditions of an operating permit.

Not Applicable ; This permit does not contain a SOC.

STORM WATER POLLUTION PREVENTION PLAN (SWPPP):

In accordance with 40 CFR 122.44(k) *Best Management Practices (BMPs)* to control or abate the discharge of pollutants when:

(1) Authorized under section 304(e) of the Clean Water Act (CWA) for the control of toxic pollutants and hazardous substances from ancillary industrial activities; (2) Authorized under section 402(p) of the CWA for the control of storm water discharges; (3) Numeric effluent limitations are infeasible; or (4) the practices are reasonably necessary to achieve effluent limitations and standards or to carry out the purposes and intent of the CWA.

In accordance with the EPA's *Developing Your Stormwater Pollution Prevention Plan. A Guide for Industrial Operators*, (Document number EPA 833-B-09-002) [published by the United States Environmental Protection Agency (USEPA) in February 2009], BMPs are measures or practices used to reduce the amount of pollution entering (regarding this operating permit) waters of the state. BMPs may take the form of a process, activity, or physical structure.

Additionally in accordance with the Storm Water Management, a SWPPP is a series of steps and activities to (1) identify sources of pollution or contamination, and (2) select and carry out actions which prevent or control the pollution of storm water discharges.

Not Applicable ; At this time, the permittee is not required to develop and implement a SWPPP.

VARIANCE:

As per the Missouri Clean Water Law § 644.061.4, variances shall be granted for such period of time and under such terms and conditions as shall be specified by the commission in its order. The variance may be extended by affirmative action of the commission. In no event shall the variance be granted for a period of time greater than is reasonably necessary for complying with the Missouri Clean Water Law §§644.006 to 644.141 or any standard, rule or regulation promulgated pursuant to Missouri Clean Water Law §§644.006 to 644.141.

Not Applicable ; This operating permit is not drafted under premises of a petition for variance.

WASTELOAD ALLOCATIONS (WLA) FOR LIMITS:

As per [10 CSR 20-2.010(78)], the amount of pollutant each discharger is allowed by the Department to release into a given stream after the Department has determined total amount of pollutant that may be discharged into that stream without endangering its water quality.

Not Applicable ; Wasteload allocations were not calculated.

WLA MODELING:

There are two general types of effluent limitations, technology-based effluent limits (TBELs) and water quality based effluent limits (WQBELs). If TBELs do not provide adequate protection for the receiving waters, then WQBEL must be used.

Not Applicable ; A WLA study was either not submitted or determined not applicable by Department staff.

WATER QUALITY STANDARDS:

Per [10 CSR 20-7.031(3)], General Criteria shall be applicable to all waters of the state at all times including mixing zones. Additionally, [40 CFR 122.44(d)(1)] directs the Department to establish in each NPDES permit to include conditions to achieve water quality established under Section 303 of the Clean Water Act, including State narrative criteria for water quality.

WHOLE EFFLUENT TOXICITY (WET) TEST:

A WET test is a quantifiable method of determining if a discharge from a facility may be causing toxicity to aquatic life by itself, in combination with or through synergistic responses when mixed with receiving stream water.

Not Applicable ; At this time, the permittee is not required to conduct WET test for this facility.

40 CFR 122.41(m) - BYPASSES:

The federal Clean Water Act (CWA), Section 402 prohibits wastewater dischargers from “bypassing” untreated or partially treated sewage (wastewater) beyond the headworks. A bypass is defined as an intentional diversion of waste streams from any portion of a treatment facility, [40 CFR 122.41(m)(1)(i)]. Additionally, Missouri regulation 10 CSR 20-2.010(11) defines a bypass as the diversion of wastewater from any portion of wastewater treatment facility or sewer system to waters of the state. Only under exceptional and specified limitations do the federal regulations allow for a facility to bypass some or all of the flow from its treatment process. Bypasses are prohibited by the CWA unless a permittee can meet all of the criteria listed in 40 CFR 122.41(m)(4)(i)(A), (B), & (C). Any bypasses from this facility are subject to the reporting required in 40 CFR 122.41(l)(6) and per Missouri’s Standard Conditions I, Section B, part 2.b. Additionally, Anticipated Bypasses include bypasses from peak flow basins or similar devices designed for peak wet weather flows.

Not Applicable ; This facility does not anticipate bypassing.

303(d) LIST & TOTAL MAXIMUM DAILY LOAD (TMDL):

Section 303(d) of the federal Clean Water Act requires that each state identify waters that are not meeting water quality standards and for which adequate water pollution controls have not been required. Water quality standards protect such beneficial uses of water as whole body contact (such as swimming), maintaining fish and other aquatic life, and providing drinking water for people, livestock and wildlife. The 303(d) list helps state and federal agencies keep track of waters that are impaired but not addressed by normal water pollution control programs.

A TMDL is a calculation of the maximum amount of a given pollutant that a body of water can absorb before its water quality is affected. If a water body is determined to be impaired as listed on the 303(d) list, then a watershed management plan will be developed that shall include the TMDL calculation

Not Applicable ; This facility does not discharge to a 303(d) listed stream.

Part VI – Permit Limits Determination

APPLICABLE DESIGNATIONS OF WATERS OF THE STATE:

As per Missouri’s Effluent Regulations [10 CSR 20-7.015], the waters of the state are divided into the below listed seven (7) categories. Each category lists effluent limitations for specific parameters, which are presented in each permitted feature’s Effluent Limitation Table and further discussed in the Derivation & Discussion of Limits section.

- Missouri or Mississippi River [10 CSR 20-7.015(2)]:
- Lake or Reservoir [10 CSR 20-7.015(3)]:
- Losing [10 CSR 20-7.015(4)]:
- Metropolitan No-Discharge [10 CSR 20-7.015(5)]:
- Special Stream [10 CSR 20-7.015(6)]:
- Subsurface Water [10 CSR 20-7.015(7)]:
- All Other Waters [10 CSR 20-7.015(8)]:

Permitted Feature #001 – Emergency Discharge

There are no effluent limits associated with Permitted Feature #001 for the no-discharge facility. However, the following is required for an emergency discharge.

EMERGENCY DISCHARGE TABLE:

PARAMETER	UNIT	BASIS FOR LIMITS	DAILY MAXIMUM	WEEKLY AVERAGE	MONTHLY AVERAGE	MODIFIED	PREVIOUS PERMIT LIMITATIONS
Flow	MGD	9	*			NO	*
Biochemical Oxygen Demand ₅	mg/L	9	*			YES	45/30
Total Suspended Solids	mg/L	9	*			YES	45/30
Ammonia as N	mg/L	9	*			NO	*
pH	SU	9	*			YES	≥ 6
E.coli	**	9	*			YES	***
Nitrate	mg/L	9	*			NO	***
Monitoring Frequency	Please see Minimum Sampling and Reporting Frequency Requirements in the Derivation and Discussion Section below.						

- * - Monitoring requirement only
- ** - # of colonies/100mL; the Monthly Average for Fecal Coliform is a geometric mean.
- *** - Parameter not previously established in previous state operating permit.

Basis for Limitations Codes:

- | | |
|--|------------------------------------|
| 1. State or Federal Regulation/Law | 7. Antidegradation Policy |
| 2. Water Quality Standard (includes RPA) | 8. Water Quality Model |
| 3. Water Quality Based Effluent Limits | 9. Best Professional Judgment |
| 4. Lagoon Policy | 10. TMDL or Permit in lieu of TMDL |
| 5. Ammonia Policy | 11. WET test Policy |
| 6. Dissolved Oxygen Policy | |

Effluent limitations for emergency discharge removed per EPA recommendation on this type of facility. Despite the listed effluent limits, discharges were not authorized by the previous permit. Therefore backsliding does not apply.

• **Minimum Sampling and Reporting Frequency Requirements.**

PARAMETER	SAMPLING FREQUENCY	REPORTING FREQUENCY
Flow	once/day while discharging	Test results are due on the 28 th day of the month after the cessation of the discharge
Biochemical Oxygen Demand ₅	once/day while discharging	
Total Suspended Solids	once/day while discharging	
Ammonia as N	once/day while discharging	
pH	once/day while discharging	
E.coli	once/day while discharging	
Nitrate	once/day while discharging	

PERMITTED FEATURE #001 – STORAGE BASIN

Irrigation limitations derived and established in the below Irrigation Limitations Table are based on current operations of the facility. Future permit action due to facility modification may contain new operating permit terms and conditions that supersede the terms and conditions, including effluent limitations, of this operating permit.

IRRIGATION LIMITATIONS TABLE:

PARAMETER	UNIT	BASIS FOR LIMITS	DAILY MAXIMUM	WEEKLY AVERAGE	MONTHLY AVERAGE	MODIFIED	PREVIOUS PERMIT LIMITATIONS
Freeboard	feet	1	*			NO	*
Precipitation	inches	1	*			NO	*
Monitoring Frequency	Please see Minimum Sampling and Reporting Frequency Requirements in the Derivation and Discussion Section below.						

- * - Monitoring requirement only.
- ** - Parameter not previously established in previous state operating permit.

Basis for Limitations Codes:

- | | |
|--|------------------------------------|
| 1. State or Federal Regulation/Law | 7. Antidegradation Policy |
| 2. Water Quality Standard (includes RPA) | 8. Water Quality Model |
| 3. Water Quality Based Effluent Limits | 9. Best Professional Judgment |
| 4. Lagoon Policy | 10. TMDL or Permit in lieu of TMDL |
| 5. Ammonia Policy | 11. WET Test Policy |
| 6. Antidegradation Review | |

PERMITTED FEATURE #001 -- DERIVATION AND DISCUSSION OF LIMITS:

- **Freeboard.** Monitoring requirement only.
- **Precipitation.** Monitoring requirement only.

Minimum Sampling and Reporting Frequency Requirements.

PARAMETER	SAMPLING FREQUENCY	REPORTING FREQUENCY
Freeboard	once/month	once/year
Precipitation	once/day	once/year

PERMITTED FEATURE #002 -- IRRIGATION FIELD

PARAMETER	UNIT	BASIS FOR LIMITS	DAILY MAXIMUM	WEEKLY AVERAGE	MONTHLY AVERAGE	MODIFIED	PREVIOUS PERMIT LIMITATIONS
Irrigation Period	hours	1	*			NO	*
Volume Irrigated	gallons	1	*			NO	*
Application Area	acres	1	*			NO	*
Application Rate	inches	1	*			NO	*
Monitoring Frequency	Please see Minimum Sampling and Reporting Frequency Requirements in the Derivation and Discussion Section below.						

- * - Monitoring requirement only.
- ** - Parameter not previously established in previous state operating permit.
- *** - # of colonies/100mL; the Monthly Average for Fecal Coliform is a geometric mean.

Basis for Limitations Codes:

- | | |
|--|------------------------------------|
| 1. State or Federal Regulation/Law | 7. Antidegradation Policy |
| 2. Water Quality Standard (includes RPA) | 8. Water Quality Model |
| 3. Water Quality Based Effluent Limits | 9. Best Professional Judgment |
| 4. Lagoon Policy | 10. TMDL or Permit in lieu of TMDL |
| 5. Ammonia Policy | 11. WET Test Policy |
| 6. Antidegradation Review | |

- **Irrigation Period.** Monitoring requirement only. Monitoring for the Irrigation Period is included to determine if proper application is occurring on the land application fields.
- **Volume Irrigated.** Monitoring requirement only. Monitoring for the Volume Irrigated is included to determine if proper application is occurring on the land application fields.
- **Application Area.** Monitoring requirement only. Monitoring for the Application Area is included to determine if proper application is occurring on the land application fields.
- **Application Rate.** Monitoring requirement only. Monitoring for the Application Rate is included to determine if proper application is occurring on the land application fields.

Minimum Sampling and Reporting Frequency Requirements.

PARAMETER	SAMPLING FREQUENCY	REPORTING FREQUENCY
Irrigation Period	once/day	once/year
Volume Irrigated	once/day	once/year
Application Area	once/day	once/year
Application Rate	once/day	once/year

Sampling Frequency Justification:

The sampling frequency has been retained from the previous permit.

Sampling Type Justification

Due to a discharge only to occur during an emergency event, grab sample is more appropriate.

Part VII – Finding of Affordability

Pursuant to Section 644.145, RSMo., the Department is required to determine whether a permit or decision is affordable and makes a finding of affordability for certain permitting and enforcement decisions. This requirement applies to discharges from combined or separate sanitary sewer systems or publically-owned treatment works.

Not Applicable; The Department is not required to determine findings of affordability because the permit contains no new conditions or requirements that convey a new cost to the facility.

Part VIII – Administrative Requirements

On the basis of preliminary staff review and the application of applicable standards and regulations, the Department, as administrative agent for the Missouri Clean Water Commission, proposes to issue a permit(s) subject to certain effluent limitations, schedules, and special conditions contained herein and within the operating permit. The proposed determinations are tentative pending public comment.

PERMIT SYNCHRONIZATION:

The Department of Natural Resources is currently undergoing a synchronization process for operating permits. Permits are normally issued on a five-year term, but to achieve synchronization many permits will need to be issued for less than the full five years allowed by regulation. The intent is that all permits within a watershed will move through the Watershed Based Management (WBM) cycle together will all expire in the same fiscal year. This will allow further streamlining by placing multiple permits within a smaller geographic area on public notice simultaneously, thereby reducing repeated administrative efforts. This will also allow the department to explore a watershed based permitting effort at some point in the future.

PUBLIC NOTICE:

The Department shall give public notice that a draft permit has been prepared and its issuance is pending. Additionally, public notice will be issued if a public hearing is to be held because of a significant degree of interest in and water quality concerns related to a draft permit. No public notice is required when a request for a permit modification or termination is denied; however, the requester and permittee must be notified of the denial in writing.

The Department must issue public notice of a pending operating permit or of a new or reissued statewide general permit. The public comment period is the length of time not less than 30 days following the date of the public notice which interested persons may submit written comments about the proposed permit.

For persons wanting to submit comments regarding this proposed operating permit, then please refer to the Public Notice page located at the front of this draft operating permit. The Public Notice page gives direction on how and where to submit appropriate comments.

- The Public Notice period for this operating permit was from April 26, 2013 to May 28, 2013. No comments received.

DATE OF FACT SHEET: 3/14/2013

COMPLETED BY:

**LACEY HIRSCHVOGEL, ENVIRONMENTAL SPECIALIST
MISSOURI DEPARTMENT OF NATURAL RESOURCES
WATER PROTECTION PROGRAM
OPERATING PERMITS SECTION - DOMESTIC WASTEWATER UNIT
(573)751-9391
lacey.hirschvogel@dnr.mo.gov**

Appendices

APPENDIX - CLASSIFICATION WORKSHEET:

ITEM	POINTS POSSIBLE	POINTS ASSIGNED
Maximum Population Equivalent (P.E.) served (Max 10 pts.)	1 pt./10,000 PE or major fraction thereof.	
Maximum: 10 pt Design Flow (avg. day) or peak month; use greater (Max 10 pts.)	1 pt. / MGD or major fraction thereof.	
EFFLUENT DISCHARGE RECEIVING WATER SENSITIVITY		
Missouri or Mississippi River	0	
All other stream discharges except to losing streams and stream reaches supporting whole body contact	1	
Discharge to lake or reservoir outside of designated whole body contact recreational area	2	
Discharge to losing stream, or stream, lake or reservoir area supporting whole body contact recreation	3	3
PRELIMINARY TREATMENT - Headworks		
Screening and/or comminution	3	
Grit removal	3	
Plant pumping of main flow (lift station at the headworks)	3	
PRIMARY TREATMENT		
Primary clarifiers	5	
Combined sedimentation/digestion	5	
Chemical addition (except chlorine, enzymes)	4	
REQUIRED LABORATORY CONTROL -- performed by plant personnel (highest level only)		
Push -- button or visual methods for simple test such as pH, Settleable solids	3	3
Additional procedures such as DO, COD, BOD, titrations, solids, volatile content	5	
More advanced determinations such as BOD seeding procedures, fecal coliform, nutrients, total oils, phenols, etc.	7	
Highly sophisticated instrumentation, such as atomic absorption and gas chromatograph	10	
ALTERNATIVE FATE OF EFFLUENT		
Direct reuse or recycle of effluent	6	
Land Disposal -- low rate	3	3
High rate	5	
Overland flow	4	
Total from page ONE (1)	----	9

APPENDIX - CLASSIFICATION WORKSHEET (CONTINUED):

ITEM	POINTS POSSIBLE	POINTS ASSIGNED
VARIATION IN RAW WASTE (highest level only) (DMR exceedances and Design Flow exceedances)		
Variation do not exceed those normally or typically expected	0	
Recurring deviations or excessive variations of 100 to 200 % in strength and/or flow	2	
Recurring deviations or excessive variations of more than 200 % in strength and/or flow	4	
Raw wastes subject to toxic waste discharge	6	
SECONDARY TREATMENT		
Trickling filter and other fixed film media with secondary clarifiers	10	
Activated sludge with secondary clarifiers (including extended aeration and oxidation ditches)	15	
Stabilization ponds without aeration	5	5
Aerated lagoon	8	
Advanced Waste Treatment Polishing Pond	2	
Chemical/physical – without secondary	15	
Chemical/physical – following secondary	10	
Biological or chemical/biological	12	
Carbon regeneration	4	
DISINFECTION		
Chlorination or comparable	5	
Dechlorination	2	
On-site generation of disinfectant (except UV light)	5	
UV light	4	
SOLIDS HANDLING - SLUDGE		
Solids Handling Thickening	5	
Anaerobic digestion	10	
Aerobic digestion	6	
Evaporative sludge drying	2	
Mechanical dewatering	8	
Solids reduction (incineration, wet oxidation)	12	
Land application	6	
Total from page TWO (2)	---	5
Total from page ONE (1)	---	9
Grand Total	---	14

- A: 71 points and greater
- B: 51 points – 70 points
- C: 26 points – 50 points
- D: 0 points – 25 points



STANDARD CONDITIONS FOR NPDES PERMITS
ISSUED BY
THE MISSOURI DEPARTMENT OF NATURAL RESOURCES
MISSOURI CLEAN WATER COMMISSION
REVISED
NOVEMBER 1, 2013

These Standard Conditions incorporate permit conditions as required by 40 CFR 122.41 or other applicable state statutes or regulations. These minimum conditions apply unless superseded by requirements specified in the permit.

Part I – General Conditions

Section A – Sampling, Monitoring, and Recording

1. **Sampling Requirements.**
 - a. Samples and measurements taken for the purpose of monitoring shall be representative of the monitored activity.
 - b. All samples shall be taken at the outfall(s) or Missouri Department of Natural Resources (Department) approved sampling location(s), and unless specified, before the effluent joins or is diluted by any other body of water or substance.
2. **Monitoring Requirements.**
 - a. Records of monitoring information shall include:
 - i. The date, exact place, and time of sampling or measurements;
 - ii. The individual(s) who performed the sampling or measurements;
 - iii. The date(s) analyses were performed;
 - iv. The individual(s) who performed the analyses;
 - v. The analytical techniques or methods used; and
 - vi. The results of such analyses.
 - b. If the permittee monitors any pollutant more frequently than required by the permit at the location specified in the permit using test procedures approved under 40 CFR Part 136, or another method required for an industry-specific waste stream under 40 CFR subchapters N or O, the results of such monitoring shall be included in the calculation and reported to the Department with the discharge monitoring report data (DMR) submitted to the Department pursuant to Section B, paragraph 7.
3. **Sample and Monitoring Calculations.** Calculations for all sample and monitoring results which require averaging of measurements shall utilize an arithmetic mean unless otherwise specified in the permit.
4. **Test Procedures.** The analytical and sampling methods used shall conform to the reference methods listed in 10 CSR 20-7.015 unless alternates are approved by the Department. The facility shall use sufficiently sensitive analytical methods for detecting, identifying, and measuring the concentrations of pollutants. The facility shall ensure that the selected methods are able to quantify the presence of pollutants in a given discharge at concentrations that are low enough to determine compliance with Water Quality Standards in 10 CSR 20-7.031 or effluent limitations unless provisions in the permit allow for other alternatives. A method is "sufficiently sensitive" when: 1) the method minimum level is at or below the level of the applicable water quality criterion for the pollutant or, 2) the method minimum level is above the applicable water quality criterion, but the amount of pollutant in a facility's discharge is high enough that the method detects and quantifies the level of pollutant in the discharge, or 3) the method has the lowest minimum level of the analytical methods approved under 10 CSR 20-7.015. These methods are also required for parameters that are listed as monitoring only, as the data collected may be used to determine if limitations need to be established. A permittee is responsible for working with their contractors to ensure that the analysis performed is sufficiently sensitive.
5. **Record Retention.** Except for records of monitoring information required by the permit related to the permittee's sewage sludge use and disposal activities, which shall be retained for a period of at least five (5) years (or longer as required by 40 CFR part 503), the permittee shall retain records of all monitoring information, including all calibration and maintenance records and all original strip chart recordings for continuous monitoring instrumentation, copies of all reports required by the permit, and records of all data used to complete the application for the permit, for a period of at least three (3) years from the date of the sample, measurement, report or application. This period may be extended by request of the Department at any time.

6. **Illegal Activities.**
 - a. The Federal Clean Water Act provides that any person who falsifies, tampers with, or knowingly renders inaccurate any monitoring device or method required to be maintained under the permit shall, upon conviction, be punished by a fine of not more than \$10,000, or by imprisonment for not more than two (2) years, or both. If a conviction of a person is for a violation committed after a first conviction of such person under this paragraph, punishment is a fine of not more than \$20,000 per day of violation, or by imprisonment of not more than four (4) years, or both.
 - b. The Missouri Clean Water Law provides that any person who falsifies, tampers with, or knowingly renders inaccurate any monitoring device or method required to be maintained pursuant to sections 644.006 to 644.141 shall, upon conviction, be punished by a fine of not more than \$10,000, or by imprisonment for not more than six (6) months, or by both. Second and successive convictions for violation under this paragraph by any person shall be punished by a fine of not more than \$50,000 per day of violation, or by imprisonment for not more than two (2) years, or both.

Section B – Reporting Requirements

1. **Planned Changes.**
 - a. The permittee shall give notice to the Department as soon as possible of any planned physical alterations or additions to the permitted facility when:
 - i. The alteration or addition to a permitted facility may meet one of the criteria for determining whether a facility is a new source in 40 CFR 122.29(b); or
 - ii. The alteration or addition could significantly change the nature or increase the quantity of pollutants discharged. This notification applies to pollutants which are subject neither to effluent limitations in the permit, nor to notification requirements under 40 CFR 122.42(a)(1);
 - iii. The alteration or addition results in a significant change in the permittee's sludge use or disposal practices, and such alteration, addition, or change may justify the application of permit conditions that are different from or absent in the existing permit, including notification of additional use or disposal sites not reported during the permit application process or not reported pursuant to an approved land application plan;
 - iv. Any facility expansions, production increases, or process modifications which will result in a new or substantially different discharge or sludge characteristics must be reported to the Department 60 days before the facility or process modification begins. Notification may be accomplished by application for a new permit. If the discharge does not violate effluent limitations specified in the permit, the facility is to submit a notice to the Department of the changed discharge at least 30 days before such changes. The Department may require a construction permit and/or permit modification as a result of the proposed changes at the facility.
2. **Twenty-Four Hour Reporting.**
 - a. The permittee shall report any noncompliance which may endanger health or the environment. Relevant information shall be provided orally or via the current electronic method approved by the Department, within 24 hours from the time the permittee becomes aware of the circumstances, and shall be reported to the appropriate Regional Office during normal business hours or the Environmental Emergency Response hotline at 573-634-2436 outside of normal business hours. A written submission shall also be provided within five (5) business days of the time the permittee becomes aware of the circumstances. The written submission shall contain a description of the noncompliance and its cause; the period of noncompliance, including exact dates and times, and if the noncompliance has not been corrected, the anticipated time it is expected to continue; and steps taken or planned to reduce, eliminate, and prevent reoccurrence of the noncompliance.



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- b. The following shall be included as information which must be reported within 24 hours under this paragraph.
 - i. Any unanticipated bypass which exceeds any effluent limitation in the permit.
 - ii. Any upset which exceeds any effluent limitation in the permit.
 - iii. Violation of a maximum daily discharge limitation for any of the pollutants listed by the Department in the permit required to be reported within 24 hours.
 - c. The Department may waive the written report on a case-by-case basis for reports under paragraph 2. b. of this section if the oral report has been received within 24 hours.
3. **Sanitary Sewer Overflow Reporting.** The following requirements solely reflect reporting obligations, and reporting does not necessarily reflect noncompliance, which may depend on the circumstances of the incident reported.
 - a. **Twenty-Four Hour (24-Hour) Reporting.** The permittee or owner shall report any incident in which wastewater escapes the collection system such that it reaches waters of the state or it may pose an imminent or substantial endangerment to the health or welfare of persons. Relevant information shall be provided orally or via the current electronic method approved by the Department within 24 hours from the time the permittee becomes aware of the incident. A written submission shall also be provided within five (5) business days of the time the permittee or owner becomes aware of the incident. The Department may waive the written report on a case-by-case basis if the oral report has been received within 24 hours. The five (5) day reports may be provided via the current electronic method approved by the Department.
 - b. **Incidents Reported via Discharge Monitoring Reports (DMRs).** The permittee or owner shall report any event in which wastewater escapes the collection system, which does not enter waters of the state and is not expected to pose an imminent or substantial endangerment to the health or welfare of persons, which occur typically during wet weather events. Relevant information shall be provided with the permittee's or owner's DMRs.
 4. **Anticipated Noncompliance.** The permittee shall give advance notice to the Department of any planned changes in the permitted facility or activity which may result in noncompliance with permit requirements. The notice shall be submitted to the Department 60 days prior to such changes or activity.
 5. **Compliance Schedules.** Reports of compliance or noncompliance with, or any progress reports on, interim and final requirements contained in any compliance schedule of the permit shall be submitted no later than 14 days following each schedule date. The report shall provide an explanation for the instance of noncompliance and a proposed schedule or anticipated date, for achieving compliance with the compliance schedule requirement.
 6. **Other Noncompliance.** The permittee shall report all instances of noncompliance not reported under paragraphs 2, 3, 4, and 7 of this section, at the time monitoring reports are submitted. The reports shall contain the information listed in paragraph 2. a. of this section.
 7. **Other Information.** Where the permittee becomes aware that it failed to submit any relevant facts in a permit application, or submitted incorrect information in a permit application or in any report to the Department, it shall promptly submit such facts or information.
 8. **Discharge Monitoring Reports.**
 - a. Monitoring results shall be reported at the intervals specified in the permit.
 - b. Monitoring results must be reported to the Department via the current method approved by the Department, unless the permittee has been granted a waiver from using the method. If the permittee has been granted a waiver, the permittee must use forms provided by the Department.
 - c. Monitoring results shall be reported to the Department no later than the 28th day of the month following the end of the reporting period.

Section C – Bypass/Upset Requirements

1. **Definitions.**
 - a. **Bypass:** the intentional diversion of waste streams from any portion of a treatment facility.
 - b. **Severe Property Damage:** substantial physical damage to property, damage to the treatment facilities which causes them to become inoperable, or substantial and permanent loss of natural resources which can reasonably be expected to occur in the absence of a bypass. Severe property damage does not mean economic loss caused by delays in production.
 - c. **Upset:** an exceptional incident in which there is unintentional and temporary noncompliance with technology based permit effluent limitations because of factors beyond the reasonable control of the permittee. An upset does not include noncompliance to the extent caused by operational error, improperly designed treatment facilities, inadequate treatment facilities, lack of preventive maintenance, or careless or improper operation.
2. **Bypass Requirements.**
 - a. **Bypass not exceeding limitations.** The permittee may allow any bypass to occur which does not cause effluent limitations to be exceeded, but only if it also is for essential maintenance to assure efficient operation. These bypasses are not subject to the provisions of paragraphs 2. b. and 2. c. of this section.
 - b. **Notice.**
 - i. **Anticipated bypass.** If the permittee knows in advance of the need for a bypass, it shall submit prior notice, if possible at least 10 days before the date of the bypass.
 - ii. **Unanticipated bypass.** The permittee shall submit notice of an unanticipated bypass as required in Section B – Reporting Requirements, paragraph 5 (24-hour notice).
 - c. **Prohibition of bypass.**
 - i. Bypass is prohibited, and the Department may take enforcement action against a permittee for bypass, unless:
 1. Bypass was unavoidable to prevent loss of life, personal injury, or severe property damage;
 2. There were no feasible alternatives to the bypass, such as the use of auxiliary treatment facilities, retention of untreated wastes, or maintenance during normal periods of equipment downtime. This condition is not satisfied if adequate back-up equipment should have been installed in the exercise of reasonable engineering judgment to prevent a bypass which occurred during normal periods of equipment downtime or preventive maintenance; and
 3. The permittee submitted notices as required under paragraph 2. b. of this section.
 - ii. The Department may approve an anticipated bypass, after considering its adverse effects, if the Department determines that it will meet the three (3) conditions listed above in paragraph 2. c. i. of this section.
3. **Upset Requirements.**
 - a. **Effect of an upset.** An upset constitutes an affirmative defense to an action brought for noncompliance with such technology based permit effluent limitations if the requirements of paragraph 3. b. of this section are met. No determination made during administrative review of claims that noncompliance was caused by upset, and before an action for noncompliance, is final administrative action subject to judicial review.
 - b. **Conditions necessary for a demonstration of upset.** A permittee who wishes to establish the affirmative defense of upset shall demonstrate, through properly signed, contemporaneous operating logs, or other relevant evidence that:
 - i. An upset occurred and that the permittee can identify the cause(s) of the upset;
 - ii. The permitted facility was at the time being properly operated; and
 - iii. The permittee submitted notice of the upset as required in Section B – Reporting Requirements, paragraph 2. b. ii. (24-hour notice).
 - iv. The permittee complied with any remedial measures required under Section D – Administrative Requirements, paragraph 4.
- c. **Burden of proof.** In any enforcement proceeding, the permittee seeking to establish the occurrence of an upset has the burden of proof.



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Section D – Administrative Requirements

1. **Duty to Comply.** The permittee must comply with all conditions of this permit. Any permit noncompliance constitutes a violation of the Missouri Clean Water Law and Federal Clean Water Act and is grounds for enforcement action; for permit termination, revocation and reissuance, or modification; or denial of a permit renewal application.
 - a. The permittee shall comply with effluent standards or prohibitions established under section 307(a) of the Federal Clean Water Act for toxic pollutants and with standards for sewage sludge use or disposal established under section 405(d) of the CWA within the time provided in the regulations that establish these standards or prohibitions or standards for sewage sludge use or disposal, even if the permit has not yet been modified to incorporate the requirement.
 - b. The Federal Clean Water Act provides that any person who violates section 301, 302, 306, 307, 308, 318 or 405 of the Act, or any permit condition or limitation implementing any such sections in a permit issued under section 402, or any requirement imposed in a pretreatment program approved under sections 402(a)(3) or 402(b)(8) of the Act, is subject to a civil penalty not to exceed \$25,000 per day for each violation. The Federal Clean Water Act provides that any person who negligently violates sections 301, 302, 306, 307, 308, 318, or 405 of the Act, or any condition or limitation implementing any of such sections in a permit issued under section 402 of the Act, or any requirement imposed in a pretreatment program approved under section 402(a)(3) or 402(b)(8) of the Act, is subject to criminal penalties of \$2,500 to \$25,000 per day of violation, or imprisonment of not more than one (1) year, or both. In the case of a second or subsequent conviction for a negligent violation, a person shall be subject to criminal penalties of not more than \$50,000 per day of violation, or by imprisonment of not more than two (2) years, or both. Any person who knowingly violates such sections, or such conditions or limitations is subject to criminal penalties of \$5,000 to \$50,000 per day of violation, or imprisonment for not more than three (3) years, or both. In the case of a second or subsequent conviction for a knowing violation, a person shall be subject to criminal penalties of not more than \$100,000 per day of violation, or imprisonment of not more than six (6) years, or both. Any person who knowingly violates section 301, 302, 303, 306, 307, 308, 318 or 405 of the Act, or any permit condition or limitation implementing any of such sections in a permit issued under section 402 of the Act, and who knows at that time that he thereby places another person in imminent danger of death or serious bodily injury, shall, upon conviction, be subject to a fine of not more than \$250,000 or imprisonment of not more than 15 years, or both. In the case of a second or subsequent conviction for a knowing endangerment violation, a person shall be subject to a fine of not more than \$500,000 or by imprisonment of not more than 30 years, or both. An organization, as defined in section 309(c)(3)(B)(iii) of the CWA, shall, upon conviction of violating the imminent danger provision, be subject to a fine of not more than \$1,000,000 and can be fined up to \$2,000,000 for second or subsequent convictions.
 - c. Any person may be assessed an administrative penalty by the EPA Director for violating section 301, 302, 306, 307, 308, 318 or 405 of this Act, or any permit condition or limitation implementing any of such sections in a permit issued under section 402 of this Act. Administrative penalties for Class I violations are not to exceed \$10,000 per violation, with the maximum amount of any Class I penalty assessed not to exceed \$25,000. Penalties for Class II violations are not to exceed \$10,000 per day for each day during which the violation continues, with the maximum amount of any Class II penalty not to exceed \$125,000.
 - d. It is unlawful for any person to cause or permit any discharge of water contaminants from any water contaminant or point source located in Missouri in violation of sections 644.006 to 644.141 of the Missouri Clean Water Law, or any standard, rule or regulation promulgated by the commission. In the event the commission or the director determines that any provision of sections 644.006 to 644.141 of the Missouri Clean Water Law or standard, rules, limitations or regulations promulgated pursuant thereto, or permits issued by, or any final abatement order, other order, or determination made by the commission or the director, or any filing requirement pursuant to sections 644.006 to 644.141 of the Missouri Clean Water Law or any other provision which this state is required to enforce pursuant to any federal water pollution control act, is being, was, or is in imminent danger of being violated, the commission or director may cause to have instituted a civil action in any court of competent jurisdiction for the injunctive relief to prevent any such violation or further violation or for the assessment of a penalty not to exceed \$10,000 per day for each day, or part thereof, the violation occurred and continues to occur, or both, as the court deems proper. Any person who willfully or negligently commits any violation in this paragraph shall, upon conviction, be punished by a fine of not less than \$2,500 nor more than \$25,000 per day of violation, or by imprisonment for not more than one year, or both. Second and successive convictions for violation of the same provision of this paragraph by any person shall be punished by a fine of not more than \$50,000 per day of violation, or by imprisonment for not more than two (2) years, or both.
2. **Duty to Reapply.**
 - a. If the permittee wishes to continue an activity regulated by this permit after the expiration date of this permit, the permittee must apply for and obtain a new permit.
 - b. A permittee with a currently effective site-specific permit shall submit an application for renewal at least 180 days before the expiration date of the existing permit, unless permission for a later date has been granted by the Department. (The Department shall not grant permission for applications to be submitted later than the expiration date of the existing permit.)
 - c. A permittees with currently effective general permit shall submit an application for renewal at least 30 days before the existing permit expires, unless the permittee has been notified by the Department that an earlier application must be made. The Department may grant permission for a later submission date. (The Department shall not grant permission for applications to be submitted later than the expiration date of the existing permit.)
3. **Need to Halt or Reduce Activity Not a Defense.** It shall not be a defense for a permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit.
4. **Duty to Mitigate.** The permittee shall take all reasonable steps to minimize or prevent any discharge or sludge use or disposal in violation of this permit which has a reasonable likelihood of adversely affecting human health or the environment.
5. **Proper Operation and Maintenance.** The permittee shall at all times properly operate and maintain all facilities and systems of treatment and control (and related appurtenances) which are installed or used by the permittee to achieve compliance with the conditions of this permit. Proper operation and maintenance also includes adequate laboratory controls and appropriate quality assurance procedures. This provision requires the operation of back-up or auxiliary facilities or similar systems which are installed by a permittee only when the operation is necessary to achieve compliance with the conditions of the permit.
6. **Permit Actions.**
 - a. Subject to compliance with statutory requirements of the Law and Regulations and applicable Court Order, this permit may be modified, suspended, or revoked in whole or in part during its term for cause including, but not limited to, the following:
 - i. Violations of any terms or conditions of this permit or the law;
 - ii. Having obtained this permit by misrepresentation or failure to disclose fully any relevant facts;
 - iii. A change in any circumstances or conditions that requires either a temporary or permanent reduction or elimination of the authorized discharge; or
 - iv. Any reason set forth in the Law or Regulations.
 - b. The filing of a request by the permittee for a permit modification, revocation and reissuance, or termination, or a notification of planned changes or anticipated noncompliance does not stay any permit condition.



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7. **Permit Transfer.**
- Subject to 10 CSR 20-6.010, an operating permit may be transferred upon submission to the Department of an application to transfer signed by the existing owner and the new owner, unless prohibited by the terms of the permit. Until such time the permit is officially transferred, the original permittee remains responsible for complying with the terms and conditions of the existing permit.
 - The Department may require modification or revocation and reissuance of the permit to change the name of the permittee and incorporate such other requirements as may be necessary under the Missouri Clean Water Law or the Federal Clean Water Act.
 - The Department, within 30 days of receipt of the application, shall notify the new permittee of its intent to revoke or reissue or transfer the permit.
8. **Toxic Pollutants.** The permittee shall comply with effluent standards or prohibitions established under section 307(a) of the Federal Clean Water Act for toxic pollutants and with standards for sewage sludge use or disposal established under section 405(d) of the Federal Clean Water Act within the time provided in the regulations that establish these standards or prohibitions or standards for sewage sludge use or disposal, even if the permit has not yet been modified to incorporate the requirement.
9. **Property Rights.** This permit does not convey any property rights of any sort, or any exclusive privilege.
10. **Duty to Provide Information.** The permittee shall furnish to the Department, within a reasonable time, any information which the Department may request to determine whether cause exists for modifying, revoking and reissuing, or terminating this permit or to determine compliance with this permit. The permittee shall also furnish to the Department upon request, copies of records required to be kept by this permit.
11. **Inspection and Entry.** The permittee shall allow the Department, or an authorized representative (including an authorized contractor acting as a representative of the Department), upon presentation of credentials and other documents as may be required by law, to:
- Enter upon the permittee's premises where a regulated facility or activity is located or conducted, or where records must be kept under the conditions of the permit;
 - Have access to and copy, at reasonable times, any records that must be kept under the conditions of this permit;
 - Inspect at reasonable times any facilities, equipment (including monitoring and control equipment), practices, or operations regulated or required under this permit; and
 - Sample or monitor at reasonable times, for the purposes of assuring permit compliance or as otherwise authorized by the Federal Clean Water Act or Missouri Clean Water Law, any substances or parameters at any location.
12. **Closure of Treatment Facilities.**
- Persons who cease operation or plan to cease operation of waste, wastewater, and sludge handling and treatment facilities shall close the facilities in accordance with a closure plan approved by the Department.
 - Operating Permits under 10 CSR 20-6.010 or under 10 CSR 20-6.015 are required until all waste, wastewater, and sludges have been disposed of in accordance with the closure plan approved by the Department and any disturbed areas have been properly stabilized. Disturbed areas will be considered stabilized when perennial vegetation, pavement, or structures using permanent materials cover all areas that have been disturbed. Vegetative cover, if used, shall be at least 70% plant density over 100% of the disturbed area.
13. **Signatory Requirement.**
- All permit applications, reports required by the permit, or information requested by the Department shall be signed and certified. (See 40 CFR 122.22 and 10 CSR 20-6.010)
 - The Federal Clean Water Act provides that any person who knowingly makes any false statement, representation, or certification in any record or other document submitted or required to be maintained under this permit, including monitoring reports or reports of compliance or non-compliance shall, upon conviction, be punished by a fine of not more than \$10,000 per violation, or by imprisonment for not more than six (6) months per violation, or by both.
14. **Severability.** The provisions of the permit are severable, and if any provision of the permit, or the application of any provision of the permit to any circumstance, is held invalid, the application of such provision to other circumstances, and the remainder of the permit, shall not be affected thereby.

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AUGUST 15, 1994**

PART III – SLUDGE & BIOSOLIDS FROM DOMESTIC WASTEWATER TREATMENT FACILITIES

SECTION A – GENERAL REQUIREMENTS

1. This permit pertains to sludge requirements under the Missouri Clean Water Law and regulation and incorporates applicable federal sludge disposal requirements under 40 CFR 503. The Environmental Protection Agency (EPA) has principal authority for permitting and enforcement of the federal sludge regulations under 40 CFS 503 until such time as Missouri is delegated the new EPA sludge program. EPA has reviewed and accepted these standard sludge conditions. EPA may choose to issue a separate sludge addendum to this permit or a separate federal sludge permit at their discretion to further address federal requirements.
2. These PART III Standard Conditions apply only to sludge and biosolids generated at domestic wastewater treatment facilities, including public owned treatment works (POTW) and privately owned facilities.
3. Sludge and Biosolids Use and Disposal Practices.
 - a. Permittee is authorized to operate the sludge and biosolids treatment, storage, use, and disposal facilities listed in the facility description of this permit.
 - b. Permittee shall not exceed the design sludge volume listed in the facility description and shall not use sludge disposal methods that are not listed in the facility description, without prior approval of the permitting authority.
 - c. Permittee is authorized to operate the storage, treatment or generating sites listed in the Facility Description section of this permit.
 - d. A separate operating permit is required for each operating location where sludge or biosolids are generated, stored, treated, or disposed, unless specifically exempted in this permit or in 10 CSR 20, Chapter 6 regulations. For land application, see section H, subsection 3 of these standard conditions.
4. Sludge Received From Other Facilities
 - a. Permittees may accept domestic wastewater sludge from other facilities including septic tank pumpings from residential sources as long as the design sludge volume is not exceeded and the treatment facility performance is not impaired.
 - b. The permittee shall obtain a signed statement from the sludge generator or hauler that certifies the type and source of the sludge.
 - c. Sludge received from out-of-state generators shall receive prior approval of the permitting authority and shall be listed in the facility description or special conditions section of the permit.
5. These permit requirements do not supersede nor remove liability for compliance with county and other local ordinances.
6. These permit requirements do not supersede nor remove liability for compliance with other environmental regulations such as odor emissions under the Missouri Air Pollution Control Law and regulations.
7. This permit may (after due process) be modified, or alternatively revoked and reissued, to comply with any applicable sludge disposal standard or limitation issued or approved under Section 405(d) of the Clean Water Act or under Chapter 644 RSMo.
8. In addition to the STANDARD CONDITIONS, the department may include sludge limitations in the special conditions portion or other sections of this permit.
9. Alternate Limits in Site Specific Permit.

Where deemed appropriate, the department may require an individual site specific permit in order to authorize alternate limitations:

 - a. An individual permit must be obtained for each operating location, including application sites.
 - b. To request a site specific permit, an individual permit application, permit fees, and supporting documents shall be submitted for each operating location. This shall include a detailed sludge/biosolids management plan or engineering report.
10. Exceptions to these Standard Conditions may be authorized on a case-by-case basis by the department, as follows:
 - a. The department will prepare a permit modification and follow permit public notice provisions as applicable under 10 CSR 20-6.020, 40 CFR 124.10, and 40 CFR 501.15(a)(2)(ix)(E). This includes notification of the owners of property located adjacent to each land application site, where appropriate.
 - b. Exceptions cannot be granted where prohibited by the federal sludge regulations under 40 CFR 503.
11. Compliance Period
Compliance shall be achieved as expeditiously as possible but no later than the compliance dates under 40 CFR 503.2.

SECTION B – DEFINITIONS

1. Biosolids means an organic fertilizer or soil amendment produced by the treatment of domestic wastewater sludge. Untreated sludge or sludge that does not conform to the pollutants and pathogen treatment requirements in this permit is not considered biosolids.
2. Biosolids land application facility is a facility where biosolids are spread onto the land at agronomic rates for production of food or fiber. The facility includes any structures necessary to store the biosolids until soil, weather, and crop conditions are favorable for land application.
3. Class A biosolids means a material that has met the Class A pathogen reduction requirements or equivalent treatment by a Process to Further Reduce Pathogens (PFRP) in accordance with 40 CFR 503.
4. Class B biosolids means a material that has met the Class B pathogen reduction requirements or equivalent treatment by a Process to Significantly Reduce Pathogens (PFRP) in accordance with 40 CFR 503.
5. Domestic wastewater means wastewater originating from the sanitary conveniences of residences, commercial buildings, factories and institutions; or co-mingled sanitary and industrial wastewater processed by a public owned treatment works (POTW) or privately owned facility.
6. Mechanical treatment plants are wastewater treatment facilities that use mechanical devices to treat wastewater, including septic tanks, extended aeration, activated sludge, contact stabilization, trickling filters, rotating biological discs, and other similar facilities. It does not include unaerated wastewater treatment lagoons and constructed wetlands for wastewater treatment.
7. Operating location as defined in 10 CSR 20-2.010 is all contiguous lands owned, operated or controlled by one (1) person or by two (2) or more persons jointly or as tenants in common.
8. Plant Available Nitrogen (PAN) is the nitrogen that will be available to plants during the next growing season after biosolids application.
9. Sinkhole is a depression in the land surface into which surface water flows to join an underground drainage system.
10. Site Specific Permit is a permit that has alternate limits developed to address specific site conditions for each land application site or storage site.
11. Sludge is the solid, semisolid, or liquid residue removed during the treatment of wastewater. Sludge includes septage removed from septic tanks.
12. Sludge lagoon is an earthen basin that receives sludge that has been removed from a wastewater treatment facility. It does not include a wastewater treatment lagoon or sludge treatment units that are not a part of a mechanical wastewater treatment facility.
13. Wetlands are those areas that are inundated or saturated by surface or groundwater at a frequency and duration sufficient to support, and that under normal circumstances do support, a prevalence of vegetation typically adapted for life in saturated soil conditions. Wetlands generally include swamp, marshes, bogs, and similar areas. Wetlands do not include constructed wetlands used for wastewater treatment.

SECTION C – MECHANICAL WASTEWATER TREATMENT FACILITIES

1. Sludge shall be routinely removed from the wastewater treatment facilities and handled according to the permit facility description and sludge conditions in this permit.
2. The permittee shall operate the facility so that there is no sludge loss into the discharged effluent in excess of permit limits, no sludge bypassing, and no discharge of sludge to waters of the state.
3. Mechanical treatment plants shall have separate sludge storage compartments in accordance with 10 CSR 20, Chapter 8. Failure to remove sludge from these storage compartments on the required design schedule is a violation of this permit.

SECTION D – SLUDGE DISPOSED AT OTHER TREATMENT FACILITY OR CONTRACT HAULER

1. This section applies to permittees that haul sludge to another treatment facility for disposal or use contract haulers to remove and dispose of sludge.
2. Permittees that use contract haulers are responsible for compliance with all the terms of this permit including final disposal, unless the hauler has a separate permit for sludge or biosolids disposal issued by the department; or the hauler transports the sludge to another permitted treatment facility.
3. The permittee shall require documentation from the contractor of the disposal methods used and permits obtained by the contractor.
4. Testing of sludge, other than total solids content, is not required if sludge is hauled to a municipal wastewater treatment facility or other permitted wastewater treatment facility.

SECTION E – WASTEWATER TREATMENT LAGOONS AND STORMWATER RETENTION BASINS

1. Sludge that is retained within a wastewater treatment lagoon is subject to sludge disposal requirements when the sludge is removed from the lagoon or when the lagoon ceases to receive and treat wastewater.
2. If sludge is removed during the year, an annual sludge report must be submitted.
3. Storm water retention basins or other earthen basins, which have been used as sludge storage for a mechanical treatment system is considered a sludge lagoon and must comply with Section G of this permit.

SECTION F – INCINERATION OF SLUDGE

1. Sludge incineration facilities shall comply with the requirements of 40 CFR 503 Subpart E; air pollution control regulations under 10 CSR 10; and solid waste management regulations under 10 CSR 80.
2. Permittee may be authorized under the facility description of this permit to store incineration ash in lagoons or ash ponds. This permit does not authorize the disposal of incineration ash. Incineration ash shall be disposed in accordance with 10 CSR 80; or if the ash is determined to be hazardous waste, shall be disposed in accordance with 10 CSR 25.
3. In addition to normal sludge monitoring, incineration facilities shall report the following as part of the annual report, quantity of sludge incinerated, quantity of ash generated, quantity of ash stored; and ash use or disposal method, quantity, and location. Permittee shall also provide the name of the disposal facility and the applicable permit number.
4. Additional limitations, monitoring, and reporting requirements may be addressed in the Special Conditions sections of this permit.

SECTION G – SURFACE DISPOSAL SITES AND SLUDGE LAGOONS

1. Surface disposal sites shall comply with the requirements in 40 CFR 503 Subpart C, and solid waste disposal regulations under 10 CSR 80.
2. Additional limitations, monitoring, and reporting requirements may be addressed in the Special Conditions section of this permit.
3. Effective February 19, 1995, a sludge lagoon that has been in use for more than two years without removal of accumulated sludge, or that has not been properly closed shall comply with one of the following options:
 - a. Permittee shall obtain a site specific permit to address surface disposal requirements under 40 CFR 503, ground water quality regulations under 10 CSR 20, Chapter 7 and 8, and solid waste management regulations under 10 CSR 80;
 - b. Permittee shall clean out the sludge lagoon to remove any sludge over two years old and shall continue to remove accumulated sludge at least every two years or an alternate schedule approved under 40 CFR 503.20(b). In order to avoid damage to the lagoon seal during cleaning, the permittee may leave a layer of sludge on the bottom of the lagoon, upon prior approval of the department; or
 - c. Permittee shall close the lagoon in accordance with Section 1.

SECTION H – LAND APPLICATION

1. The permittee shall not land apply sludge or biosolids unless land application is authorized in the Facility Description or special conditions section of the permit.
2. This permit replaces and terminates all previous sludge management plan approvals by the department for land application of sludge or biosolids.
3. Land application sites within a 20 mile radius of the wastewater treatment facility are authorized under this permit when biosolids are applied for beneficial use in accordance with these standard conditions unless a site specific permit is required under Section A, Subsection 9.
4. Biosolids shall not be applied unless authorized in this permit or exempted under 10 CSR 20, Chapter 6.
 - a. This permit does not authorize the land application of sludge except when sludge meets the definition of biosolids.
 - b. This permit authorizes "Class A or B" biosolids derived from domestic wastewater sludges to be land applied onto grass land, crop land, timber land or other similar agricultural or silviculture lands at rates suitable for beneficial use as organic fertilizer and soil conditioner.
5. Public Contact Sites.
Permittees who wish to apply Class A biosolids to public contact sites must obtain approval from the department. Applications for approval shall be in the form of an engineering report and shall address priority pollutants and dioxin concentrations. Authorization for land applications must be provided in the special conditions section of this permit or in a separate site-specific permit.

6. Agricultural and Silvicultural Sites.

In addition to specified conditions herein, this permit is subject to the attached Water Quality Guides numbers WQ 422 through 426 published by the University of Missouri, and hereby incorporated as though fully set forth herein. The guide topics are as follows:

WQ 422	Land Application of Septage
WQ 423	Monitoring Requirements for Biosolids Land Application
WQ 424	Biosolids Standards for Pathogens and Vectors
WQ 425	Biosolids Standards for Metals and Other Trace Substances
WQ 426	Best Management Practices for Biosolids Land Applications

SECTION I – CLOSURE REQUIREMENTS

1. This section applies to all wastewater treatment facilities (mechanical and lagoons) and sludge or biosolids storage and treatment facilities and incineration ash ponds. It does not apply to land application sites.
2. Permittees who plan to cease operation must obtain department approval of a closure plan which addresses proper removal and disposal of all residues, including sludge, biosolids, and ash. Permittee must maintain this permit until the facility is properly closed per 10 CSR 20-6.010 and 10 CSR 20-6.015.
3. Residuals that are left in place during closure of a lagoon or earthen structure shall not exceed the agricultural loading rates as follows:
 - a. Residuals shall meet the monitoring and land application limits for agricultural rates as referenced in Section H of these standard conditions.
 - b. If a wastewater treatment lagoon has been in operation for 15 years or more, the sludge in the lagoon qualifies for Class B with respect to pathogens (see WQ 424, Table 3), and testing for fecal coliform is not required. For other lagoons, testing for fecal coliform is required to show compliance with Class B limitations. See WQ 423 and 424.
 - c. The allowable nitrogen loading that may be left in the lagoon shall be based on the plant available nitrogen (PAN) loading. See WQ 426 for calculation procedures. For a grass cover crop, the allowable PAN is 300 pounds/acre.
4. When closing a wastewater treatment lagoon with a design treatment capacity equal or less than 150 persons, the residuals are considered "septage" under the similar treatment works" definition. See WQ 422. Under the septage category, residuals may be left in place as follows:
 - a. Testing for metals or fecal coliform is not required.
 - b. If the wastewater treatment lagoon has been in use for less than 15 years, mix lime with the sludge at the rate of 50 pounds of hydrated lime per 1000 gallons (134 cubic feet) of sludge.
 - c. The amount of sludge that may be left in the lagoon shall be based on the plant available nitrogen (PAN) loading. 100 dry tons/acre of sludge may be left in the basin without testing for nitrogen. If more than 100 dry tons/acre will be left in the lagoon, test for nitrogen and determine the PAN in accordance with WQ 426. Allowable PAN loading is 300 pounds/acre.
5. Residuals left within the lagoon shall be mixed with soil on at least a 1 to 1 ratio, the lagoon berms shall be demolished, and the site shall be graded and vegetated so as to avoid ponding of storm water and provide adequate surface water drainage without creating erosion.
6. Lagoon closure activities shall obtain a storm water permit for land disturbance activities that equal or exceed five acres in accordance with 10 CSR 20-6.200.
7. If sludge exceeds agricultural loading rates under Section H or I, a landfill permit or solid waste disposal permit shall be obtained to authorize on-site sludge disposal under the Missouri Solid Waste Management Law and regulations per 10 CSR 80, and the permittee must comply with the surface disposal requirements under 40 CFR 503, Subpart C.

SECTION J – MONITORING FREQUENCY

1. At a minimum, sludge or biosolids shall be tested for volume and percent total solids on a frequency that will accurately represent sludge quantities produced and disposed.
2. Testing for land application is listed under Section H, Subsection 6 of these standard conditions (see WQ 423). Once per year is the minimum test frequency. Additional testing shall be performed for each 100 dry tons of sludge generated or stored during the year.
3. Additional testing may be required in the special conditions or other sections of the permit. Permittees receiving industrial wastewater may be required to conduct additional testing upon request from the department.
4. Monitoring requirements shall be performed in accordance with, "POTW Sludge Sampling and Analysis Guidance Document", United States Environmental Protection Agency, August 1989, and subsequent revisions.

SECTION K – RECORD KEEPING AND REPORTING REQUIREMENTS

1. The permittee shall maintain records on file at the facility for at least five years for the items listed in these Standard Conditions and any additional items in the Special Conditions section of this permit. This shall include dates when the sludge facility is checked for proper operation, records of maintenance and repairs and other relevant information.
2. Reporting Period
 - a. By January 28th of each year, an annual report shall be submitted for the previous calendar year period for all mechanical wastewater treatment facilities, sludge lagoons, and sludge or biosolids disposal facilities.
 - b. Permittees with wastewater treatment lagoons shall submit the above annual report only when sludge or biosolids are removed from the lagoon during the report period or when the lagoon is closed.
3. Report Forms. The annual report shall be submitted on report forms provided by the department or equivalent forms approved by the department.
4. Report shall be submitted as follows:
Major facilities (those serving 10,000 persons or 1 million gallons per day) shall report to both the department and EPA. Other facilities need to report only to the department. Reports shall be submitted to the addresses listed as follows:

DNR regional office listed in your permit
(See cover letter of permit)

EPA Region VII
Water Compliance Branch (WACM)
Sludge Coordinator
901 N 5th Street
Kansas City, KS 66101

5. Annual Report Contents. The annual report shall include the following:
 - a. Sludge/biosolids testing performed. Include a copy or summary of all test results, even if not required by this permit.
 - b. Sludge or Biosolids quantity shall be reported as dry tons for quantity generated by the wastewater treatment facility, the quantity stored on site at end of year, and the quantity used or disposed.
 - c. Gallons and % solids data used to calculate the dry ton amounts.
 - d. Description of any unusual operating conditions.
 - e. Final disposal method, dates, and location, and person responsible for hauling and disposal.
 - (1) This must include the name, address and permit number for the hauler and the sludge facility. If hauled to a municipal wastewater treatment facility, sanitary landfill, or other approved treatment facility, give the name and permit number of that facility.
 - (2) Include a description of the type of hauling equipment used and the capacity in tons, gallons, or cubic feet.
 - f. Contract Hauler Activities.
If contract hauler, provide a copy of a signed contract or billing receipts from the contractor. Permittee shall require the contractor to supply information required under this permit for which the contractor is responsible. The permittee shall submit a signed statement from the contractor that he has complied with the standards contained in this permit, unless the contract hauler has a separate sludge disposal or biosolids use permit.
 - g. Land Application Sites.
 - (1) Report the location of each application site, the annual and cumulative dry tons/acre for each site, and the landowners name and address. The location for each spreading site shall be given as legal description for nearest ¼, ¼, Section, Township, Range, and County, or as latitude and longitude.
 - (2) If biosolids application exceeds 2 dry tons/acre/year, report biosolids nitrogen results. Plant Available Nitrogen (PAN) in pounds/acre, crop nitrogen requirement, available nitrogen in the soil prior to biosolids application, and PAN calculations for each site.
 - (3) If the "Low Metals" criteria is exceeded, report the annual and cumulative pollutant loading rates in pounds per acre for each applicable pollutant, and report the percent of cumulative loading which has been reached at each site.
 - (4) Report the method used for compliance with pathogen and vector attraction requirements.
 - (5) Report soil test results for pH, CEC, and phosphorus. If none was tested during the year, report the last date when tested and results.



MISSOURI DEPARTMENT OF NATURAL RESOURCES
 WATER PROTECTION PROGRAM, WATER POLLUTION BRANCH
FORM B - APPLICATION FOR CONSTRUCTION OR OPERATING PERMIT FOR FACILITIES WHICH RECEIVE PRIMARILY DOMESTIC WASTE (≤100,000 gallons per day) UNDER MISSOURI CLEAN WATER LAW

FOR AGENCY USE ONLY
 CHECK NUMBER
 NO check received
 DATE RECEIVED 11-14-12
 FEE SUBMITTED 0

AP 14015 110473
 BB

NOTE: PLEASE READ THE APPLICATION INSTRUCTIONS BEFORE SUBMITTING THIS FORM.

1. This application is for:
 An operating permit and antidegradation review public notice.
 A construction permit following an appropriate operating permit and antidegradation review public notice.
 A construction permit and a concurrent operating permit and antidegradation review public notice.
 A construction permit (submitted before Aug. 30, 2008 or antidegradation review is not required).
 An operating permit for a new or unpermitted facility. Construction Permit # _____
 An operating permit renewal: Permit #MO- 0116988 Expiration Date 04/30/2012
 An operating permit modification: Permit #MO- Reason: _____

1.1 Is this a Federal/State Funded Project? YES NO Funding Agency/Project #: _____
1.2 Is the appropriate fee included with the application (See instructions for appropriate fee)? YES NO

2. FACILITY (Outfall) (if applicable)
NAME PORT PERRY SERVICE COMPANY **TELEPHONE WITH AREA CODE** (573) 547-6574
ADDRESS (PHYSICAL) 480 LAKE PERRY LANE **CITY** PERRYVILLE **STATE** MO **ZIP CODE** 63775

2.1 LEGAL DESCRIPTION: SE ¼, NE ¼, ¼, Sec. 8 T 34 R 9E County _____
2.2 UTM Coordinates Easting (X): _____ **Northing (Y):** _____
 For Universal Transverse Mercator (UTM), Zone 18 North referenced to North American Datum 1983 (NAD83)
2.3 Name of receiving stream: _____

3. OWNER
NAME MICHAEL YAMNITZ (PRESIDENT) BRAD MOLL (SEC/TREASURE) **E-MAIL ADDRESS** _____ **TELEPHONE WITH AREA CODE** (573) 547-6574
ADDRESS PO BOX 43 **CITY** PERRYVILLE **STATE** MO **ZIP CODE** 63775

3.1 Request review of draft permit prior to Public Notice? YES NO

4. CONTINUING AUTHORITY: Permanent or an add-on which will serve as the continuing authority for the operation, maintenance and modernization of the facility.

NAME PORT PERRY SERVICE COMPANY MIKE YAMNITZ-PRESIDENT BRAD MOLL-SEC/TREASURE **TELEPHONE WITH AREA CODE** (573) 547-6574
ADDRESS PO BOX 43 **CITY** PERRYVILLE **STATE** MO **ZIP CODE** 63775

5. OPERATOR
NAME JEREMY MEYER **CERTIFICATE NUMBER** 3665 **TELEPHONE WITH AREA CODE** (573) 547-9025

6. FACILITY CONTACT
NAME JEREMY MEYER **TITLE** OPERATOR **TELEPHONE WITH AREA CODE** (573) 547-9025

7.0. ADDITIONAL FACILITY INFORMATION:

7.1 Description of facilities (Attach additional sheet if required). Attach a 1" = 2,000' scale U.S. Geological Survey topographic map showing location of all outfalls and downstream landowners. (See item 9.)
7.2 Facility SIC code: 4952; Discharge SIC code: _____; Facility NAICS code: _____; Discharge NAICS code: _____
7.3 Number of people presently connected or population equivalent (P.E.) _____ Design P.E. 740
 Number of units presently connected: Homes 63 Trailers 43 Apartments _____ Other 91
 Design flow for this outfall: 74000 Total design flow for the facility: _____ Actual flow for this outfall: 12000
 Commercial Establishment: Daily number of employees working _____ Daily number of customers/guests _____
7.4 Length of pipe in the sewer collection system? _____ feet/miles (Please denote which unit is appropriate.)
7.5 Does any bypassing occur in the collection system or at the treatment facility? Yes No (if yes, attach explanation.)
7.6 Does significant infiltration occur in the collection system? Yes No (if yes, attach explanation and proposed repair.)
7.7 Is industrial waste discharged to the facility identified in item 2? Yes No (if yes, see instructions.)
7.8 Will the discharge be continuous through the year? Yes No
 a. Discharge will occur during the following months: NONE
 b. How many days of the week will the discharge occur? NONE
7.9 Is wastewater land applied? Yes No (if yes, attach Form I.)
7.10 Will chlorine be added to the effluent? Yes No
 a. If chlorine is added, what is the resulting residual? _____ µg/l (micrograms per liter)
7.11 Does this facility discharge to a losing stream or sinkhole? Yes No
7.12 Attach a flow chart showing all influents, treatment facilities and outfalls.
7.13 Has a waste load allocation study been completed for this facility? Yes No
7.14 List all permit violations, including effluent limit exceedances in the last five years. Attach a separate sheet if necessary.
 If none, write none. NONE

RECEIVED

NOV 21 2012

WATER PROTECTION PROGRAM
 RECEIVED
 NOV 24 2012
 By _____

SLUDGE HANDLING USE AND DISPOSITION

- 8.1 Is the sludge a hazardous waste as defined by 10 CSR 25? Yes No
- 8.2 Sludge Production, including sludge received from others: 11.1 Design Dry Tons/Year 0 Actual Dry Tons/Year
- 8.3 Capacity of sludge holding structures:
 Sludge storage provided: _____ cubic feet; _____ days of storage; _____ average percent solids of sludge;
 No sludge storage is provided.
- 8.4 Type of Storage: Holding tank Building Basin Other (Please describe) LAGOONS
 Concrete Pad
- 8.5 Sludge Treatment:
 Anaerobic Digester Lagoon Composting
 Storage Tank Aerobic Digester Other (Attach description)
 Lime Stabilization Air or Heat Drying
- 8.6 Sludge Use or Disposal:
 Land Application Surface Disposal (Sludge Disposal Lagoon, Sludge held for more than two years)
 Contract Hauler Incineration
 Hauled to Another Treatment Facility Sludge Retained in Wastewater treatment lagoon
 Solid Waste Landfill Other _____ Attach explanation sheet.
- 8.7 PERSON RESPONSIBLE FOR HAULING SLUDGE TO DISPOSAL FACILITY
 By Applicant By Others (complete below)

NAME _____

ADDRESS _____ CITY _____ STATE _____ ZIP CODE _____

CONTACT PERSON _____ TELEPHONE WITH AREA CODE _____ PERMIT NO. MO- _____

- 8.8 SLUDGE USE OR DISPOSAL FACILITY
 By Applicant By Others (Please complete below.)

NAME _____

ADDRESS _____ CITY _____ STATE _____ ZIP CODE _____

CONTACT PERSON _____ TELEPHONE WITH AREA CODE _____ PERMIT NO. MO- _____

- 8.9 Does the sludge or biosolids disposal comply with federal sludge regulations under 40 CFR 503?
 Yes No (Please attach explanation)

DRINKING WATER SUPPLY INFORMATION

NAME **VESTER NATIONS**

ADDRESS **920 PCR 728** CITY **PERRYVILLE** STATE **MO** ZIP CODE **63776**

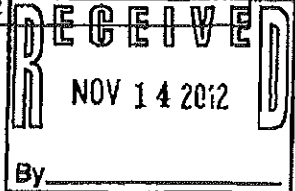
DRINKING WATER SUPPLY INFORMATION

- 10.1 WHAT IS THE SOURCE OF YOUR DRINKING WATER SUPPLY:
 A. Public supply (municipal or water district water) PUBLIC
 If public, please give name of the public supply PORT PER
 B. Private well _____
 C. Surface water (lake, pond or stream) _____
- 10.2 Does your drinking water source serve at least 25 people at least 60 days per year (not necessarily consecutive days)?
 Yes No
- 10.3 Does your supply serve housing which is occupied year round by the same people? This does not include housing which is occupied seasonally? Yes No
11. I certify that I am familiar with the information contained in the application, that to the best of my knowledge and belief such information is true, complete and accurate, and if granted this permit, I agree to abide by the Missouri Clean Water Law and all rules, regulations, orders and decisions, subject to any legitimate appeal available to applicant under the Missouri Clean Water Law.

NAME AND OFFICIAL TITLE (TYPE OR PRINT) Michael Yamnitz President TELEPHONE WITH AREA CODE (673) 547-6574

SIGNATURE Michael Yamnitz DATE SIGNED 11/01/2012

MO 760-1512 (09-08)



Appendix 7.10

MDNR Finding of Compliance



DEPARTMENT OF NATURAL RESOURCES

dnr.mo.gov

December 16, 2016

Mr. Michael Yamnitz, Co-owner
Port Perry Service Company
728 PCR 724
Perryville, MO 63775

FINDING OF COMPLIANCE

An inspection was conducted by Missouri Department of Natural Resources staff pursuant to the Missouri Clean Water Law on December 14, 2016. The Port Perry Service Company Wastewater Treatment Facility (WWTF) was found to be **in compliance** based upon the observations made at the time of the inspection.

The inspection report describes the findings and may list important recommendations that should be considered to ensure continued compliance. Your cooperation implementing those recommendations will be appreciated.

If you have any questions or would like to schedule a time to meet with department staff to discuss compliance requirements, please contact, Tim Mattingly at (573) 429-6100 or in writing at the Southeast Regional Office, 2155 N. Westwood Blvd., Poplar Bluff, MO 63901.

Sincerely,

SOUTHEAST REGIONAL OFFICE



Arthur Goodin, CHMM
Chief, Water Pollution Control Unit

Enclosures: Report of Inspection

Missouri Department of Natural Resources
Southeast Regional Office/Water Protection Program
Report of Inspection
Port Perry Service Company Wastewater Treatment Facility (WWTF)
460 Lake Perry Lane/Perryville/Perry County
MO-0116998
December 16, 2016

Introduction

Pursuant to Section 644.026.1 RSMo of the Missouri Clean Water Law, I conducted a routine compliance inspection of the Port Perry Service Company Wastewater Treatment Facility (Port Perry WWTF) in Perry County, Missouri, on December 14, 2016. Participants in the inspection were:

Port Perry WWTF
Michael Yamnitz, Co-owner (573) 768-1089 mike@mfaoil.com

MDNR
Tim Mattingly, Environmental Specialist III

This inspection was conducted to determine the facility's compliance with Missouri State Operating Permit MO-0116998, the Missouri Clean Water Commission Regulations, and the Missouri Clean Water Law. This report presents the findings and observations made during the compliance inspection.

Facility Description and History

Missouri State Operating Permit MO-0116998 was issued on December 1, 2013, and expires on November 30, 2018. This permit sets forth benchmarks, monitoring requirements, and permit conditions, both standard and specific, that the permittee is to follow.

Permitted feature #001 is a four-cell storage lagoon with wastewater irrigation. It has a design population equivalent of 740 and a design flow of 740,000 gallons per day (1-in-10 year design including net rainfall minus evaporation). It has an actual flow of 10,000 gallons per day. Design sludge production is 11.1 dry tons per year, with the sludge stored in the lagoon. The irrigation volume per year is 3,662,320 gallons at design loading (including 1-in-10 year flow) with an irrigated area of 1 acre with 3 acres available. The legal description of the Port Perry WWTF is listed on the permit as SE ¼, NE ¼, Section 8, Township 34 North, Range 9 East, Perry County. The UTM coordinates for permitted feature #001 are x=759731, y=4172557. The receiving stream for this outfall is a tributary to Nations Creek, watershed number 07140105-0108.

A review of the compliance history was reviewed from September 1, 2014 through September 30, 2016, with no violations found.

Discussion of Inspection and Observations

The inspection was conducted during normal business hours, and was announced to ensure access to the site. Upon arrival at Port Perry, I met with Mr. Michael Yamnitz, co-owner, and the purpose and scope of the inspection were outlined. Mr. Yamnitz granted permission to access the site and he accompanied me throughout the tour of the facility.

We proceeded to the lagoon where we discussed how the storage lagoon had been operating, its condition, and land application. Since the fall has been relatively dry, the lagoon's water level appeared to have been drawn down to provide adequate storage for the coming winter months. The control valves that control the water level in the lagoon cells had all been recently replaced. The water level was approximately three feet below the emergency overflow on all cells. There did not appear to have been any discharges from the emergency overflow. The lagoon appeared to be clear and had no offensive odor. There was quite a bit of brush surrounding the lagoon cells however, there were several piles of brush that had been removed and piled. Mr. Yamnitz informed me that some of the men had been helping to clear the brush.

We drove through the land irrigation area and looked at the sprinkler heads. All the sprinkler heads had been serviced but three of the sprinkler heads still needed maintenance or replacement. The irrigated area is between the entrance road and the lagoon property and is posted. The fencing needs a little repair in different areas and, according to Mr. Yamnitz, will be taken care of when the brush is removed.

We proceeded to the pump house to examine the pumping equipment. Mr. Yamnitz indicated that a carpenter has been hired to rehab the pump house. A new service entrance has already been installed. The pumping equipment appeared to be in good condition with the exception of a bearing between the motor and pump. The bearing occasionally fails, likely due to a slight misalignment. The facility does keep a spare bearing in stock. The Port Perry WWTF also chlorinates the irrigation water as it is sent to the sprinklers in the interest of public safety.

The receiving stream was clear with a low flow, both upstream and downstream. There was no trash, bottom deposits, or objectionable odors at any of these streams.

Sampling and Monitoring

The appropriate sampling materials were taken on the inspection, including a copy of the Missouri Department of Natural Resources' Standard Operating Procedures for Sampling. Instruments for field monitoring were taken on the inspection that are capable of testing pH, temperature, conductivity, and dissolved oxygen.

Water quality field monitoring was not conducted at the location, nor was routine sampling, because this facility was not discharging on the day of inspection.

Compliance Determination and Required Actions

Based upon observations made at the time of the inspection and a review of Discharge Monitoring Reports, the facility was found to be in compliance with the Missouri Clean Water Law, the Clean Water Commission Regulations, and Missouri State Operating Permit MO-0116998.

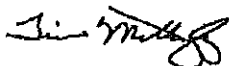
Recommendations

I recommend that the brush removal continue and that the minor fence repair be accomplished as soon as practicable.

Comments

The Port Perry WWTF appears to be operating in an acceptable manner. We encourage the operator to continue to operate the facility in this manner. I would like to thank Mr. Yamnitz for his time and assistance during this inspection.

SUBMITTED BY:



Tim Mattingly
Environmental Specialist III
Southeast Regional Office

REVIEWED BY:



Arthur Goodin, CHMM
Chief, Water Pollution Control Unit
Southeast Regional Office

Attachment #1-Photos 1 through 3



Photo #: 001
By: Tim Mattingly
Facility: Port Perry WWTF
Permit: MO-0116998
Location: Perry County

Description: This is the primary cell of the four cell system at Port Perry. The trees in the cell are cypress and are part of the original design.

Date Taken: 12/14/2016
Program: WPC Unit

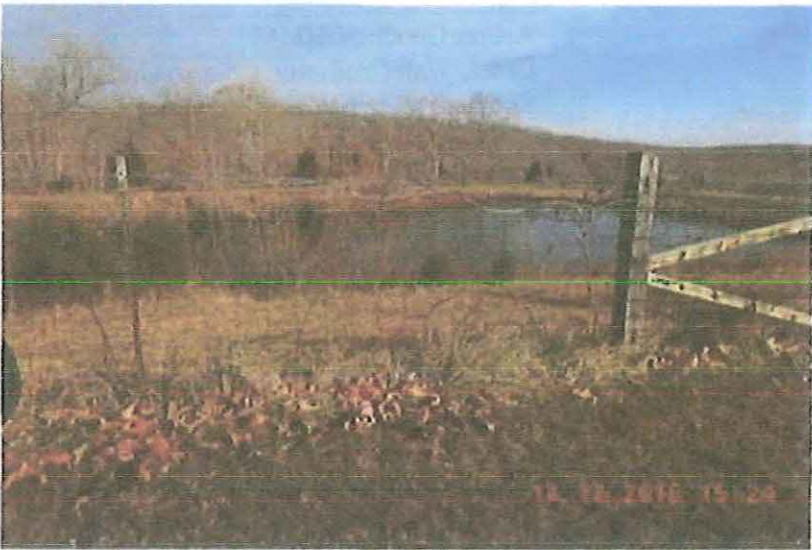


Photo #: 002
By: Tim Mattingly
Facility: Port Perry WWTF
Permit: MO-0116998
Location: Perry County

Description: A picture of cell three of the four cell lagoon. Cell two was obscured by brush in the fence row.

Date: 12/14/2016
Program: WPC Unit



Photo #: 003
By: Tim Mattingly
Facility: Port Perry WWTF
Permit: MO-0116998
Location: Perry County

Description: A photo of cell four of the lagoon system at Port Perry.

Date Taken: 12/14/2016
Program: WPC Unit

Attachment #2-Photos 4 through 6



Photo #: 004
By: Tim Mattingly
Facility: Port Perry WWTF
Permit: MO-0116998
Location: Perry County

Description: This is a view of part of the irrigation area at Port Perry.

Date Taken: 12/14/2016
Program: WPC Unit



Photo #: 005
By: Tim Mattingly
Facility: Port Perry WWTF
Permit: MO-0116998
Location: Perry County

Description: Another view of the irrigation area at Port Perry. This area is posted with signs to stay out of the area.

Date: 12/14/2016
Program: WPC Unit

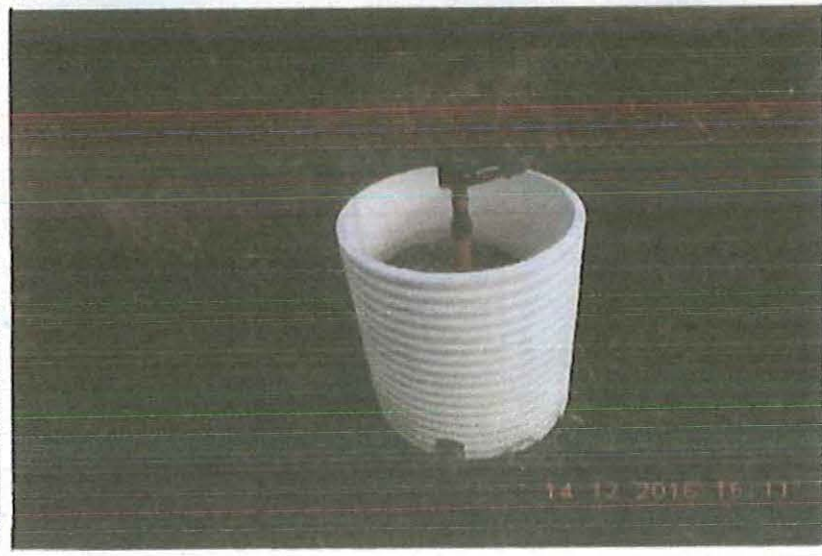


Photo #: 006
By: Tim Mattingly
Facility: Port Perry WWTF
Permit: MO-0116998
Location: Perry County

Description: A close up view of the irrigation sprinklers at Port Perry.

Date Taken: 12/14/2016
Program: WPC Unit

Attachment #3-Photos 7 through 9



Photo #: 007
By: Tim Mattingly
Facility: Port Perry WWTF
Permit: MO-0116998
Location: Perry County

Description: This photo shows the piles of brush that have been cut and the new electrical service going to the pump house.

Date Taken: 12/14/2016
Program: WPC Unit

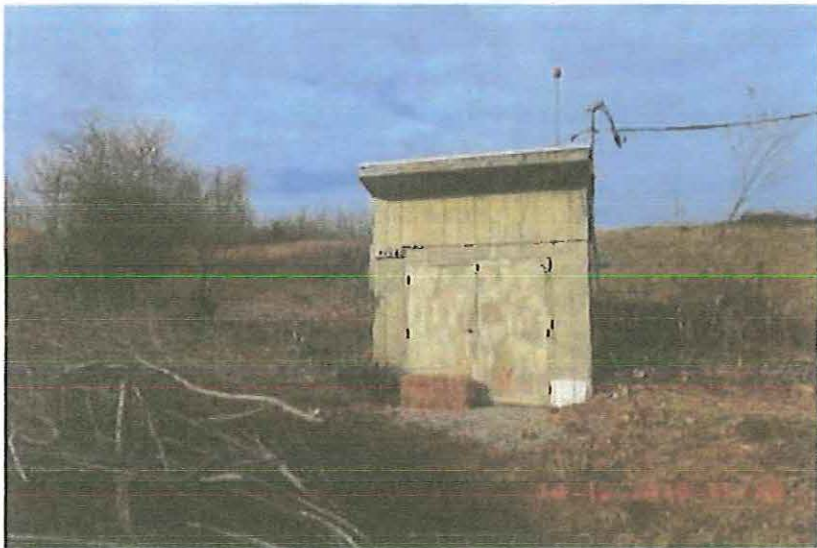


Photo #: 008
By: Tim Mattingly
Facility: Port Perry WWTF
Permit: MO-0116998
Location: Perry County

Description: This is the pump house. Plans are to rehab the pump house.

Date: 12/14/2016
Program: WPC Unit

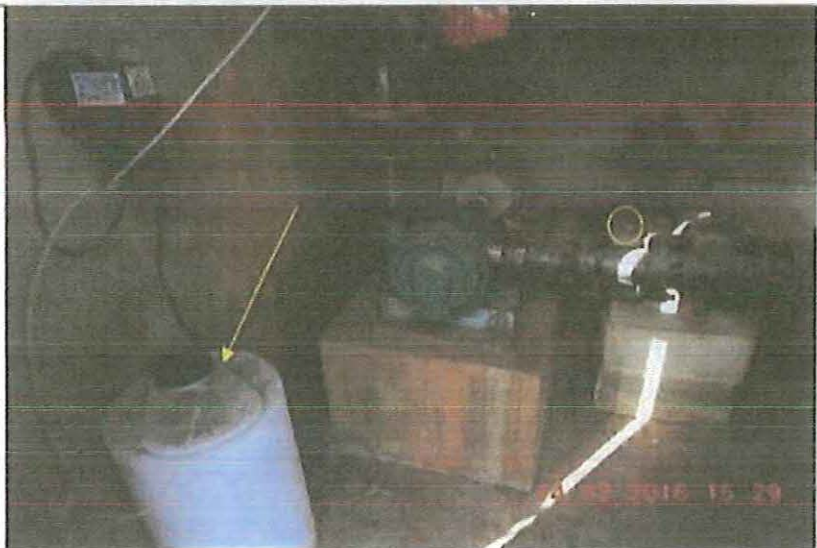


Photo #: 009
By: Tim Mattingly
Facility: Port Perry WWTF
Permit: MO-0116998
Location: Perry County

Description: A picture of the pumping equipment. The old bearing is within the yellow circle. The facility keeps a spare bearing on hand. The chlorination unit is sitting on the left under the yellow arrow.

Date Taken: 12/14/2016
Program: WPC Unit

Appendix 7.11

City of Perryville Water and Sewer Rates Sheets

WATER RATE SCHEDULE

EFFECTIVE DATE – April 1, 2018

Rate Schedules

The following rates shall be and are hereby established for the use of the waterworks system and for water supplied by the waterworks system in the City of Perryville effective April 1, 2018, for billing to be received by the customer in June, 2018.

(a) **Rates (Volume Charge):**

For the first 1,000 gallons or less used per month	See Fixed Charge by Meter Size
For the next 14,000 gallons used per month, per 1,000 gallons	4.67
For the next 185,000 gallons used per month, per 1,000 gallons	3.75
All over 200,000 gallons used per month, per 1,000 gallons	2.80

(b) **Fixed Monthly Charge by Meter Size:**

	<u>City</u>	<u>Non-City</u>
For each service requiring a 5/8" or 3/4" meter	\$ 15.42	\$ 19.27
For each service requiring a 1" meter	\$ 35.80	\$ 44.74
For each service requiring a 1 1/2" meter	\$ 69.78	\$ 87.22
For each service requiring a 2" meter	\$ 110.55	\$ 138.19
For each service requiring a 3" meter	\$ 205.69	\$ 257.10
For each service requiring a 4" meter	\$ 341.58	\$ 426.97
For each service requiring a 6" meter	\$ 681.35	\$ 851.69
For each service requiring a 8" meter	\$1,089.05	\$1,361.32

(c) **Mobile home courts and multiple-dwelling units:** Mobile home courts and multiple-dwelling units shall be charged on a monthly basis at the following rates:

- (1) Inside the city limits: \$7.02 minimum per living unit; then regular rates over the minimum rate. (Example: If four units, over 4,000 gallons)
- (2) Outside the city limits: \$8.77 per living unit; then regular rates over the minimum rate.

WATER RATE SCHEDULE

EFFECTIVE DATE – April 1, 2018

Rate Schedules

The following rates shall be and are hereby established for the use of the waterworks system and for water supplied by the waterworks system in the City of Perryville effective April 1, 2018, for billing to be received by the customer in June, 2018.

(a) **Rates (Volume Charge):**

For the first 1,000 gallons or less used per month	See Fixed Charge by Meter Size
For the next 14,000 gallons used per month, per 1,000 gallons	4.67
For the next 185,000 gallons used per month, per 1,000 gallons	3.75
All over 200,000 gallons used per month, per 1,000 gallons	2.80

(b) **Fixed Monthly Charge by Meter Size:**

	<u>City</u>	<u>Non-City</u>
For each service requiring a 5/8" or 3/4" meter	\$ 15.42	\$ 19.27
For each service requiring a 1" meter	\$ 35.80	\$ 44.74
For each service requiring a 1 1/2" meter	\$ 69.78	\$ 87.22
For each service requiring a 2" meter	\$ 110.55	\$ 138.19
For each service requiring a 3" meter	\$ 205.69	\$ 257.10
For each service requiring a 4" meter	\$ 341.58	\$ 426.97
For each service requiring a 6" meter	\$ 681.35	\$ 851.69
For each service requiring a 8" meter	\$1,089.05	\$1,361.32

(c) **Mobile home courts and multiple-dwelling units:** Mobile home courts and multiple-dwelling units shall be charged on a monthly basis at the following rates:

- (1) Inside the city limits: \$7.02 minimum per living unit; then regular rates over the minimum rate. (Example: If four units, over 4,000 gallons)
- (2) Outside the city limits: \$8.77 per living unit; then regular rates over the minimum rate.

- (3) In mobile home courts, one (1) master meter is required, but, in the interim, if mobile homes have separate meters, then the rates shall be the same as for residences, inside or outside the city limits.
- (4) Where water is to be supplied to several persons in apartments, offices, mobile homes, or stores, jointly located and supplied through one service, the city shall contract with only one person for the supply of water and said person shall be responsible to the city for the payment of water bills. Apartments, offices, mobile homes, or stores jointly located and hereafter constructed or converted must be master metered. Master meter is defined as a single meter serving multiple tenant spaces. (Ord. No. 4805)

SEWER RATE SCHEDULE

EFFECTIVE DATE: April 1, 2018

The following rates shall be and are hereby established for the use of the sewer system in the City of Perryville effective April 1, 2018, for billing to be received by the customer in June 2018.

(a) **Rates (Volume Charge):**

For the first 1,000 gallons or less used per month See Fixed Charge by Meter Size
All usage above 1,000 gallons, per 1,000 gallons \$ 8.49

(b) **Fixed Monthly Charge by Meter Size:**

	<u>City</u>
For each service requiring a 5/8" or 3/4" meter	\$ 11.10
For each service requiring a 1" meter	\$ 26.50
For each service requiring a 1 1/2" meter	\$ 52.19
For each service requiring a 2" meter	\$ 83.00
For each service requiring a 3" meter	\$ 154.90
For each service requiring a 4" meter	\$ 257.62
For each service requiring a 6" meter	\$ 514.41
For each service requiring a 8" meter	\$ 822.55

April 2018 Update
Adopted June 6, 2017
Sewer Rate Schedule

SEWER RATE SCHEDULE

EFFECTIVE DATE: April 1, 2018

The following rates shall be and are hereby established for the use of the sewer system in the City of Perryville effective April 1, 2018, for billing to be received by the customer in June 2018.

(a) **Rates (Volume Charge):**

For the first 1,000 gallons or less used per month **See Fixed Charge by Meter Size**
All usage above 1,000 gallons, per 1,000 gallons **\$ 8.49**

(b) **Fixed Monthly Charge by Meter Size:**

	<u>City</u>
For each service requiring a 5/8" or 3/4" meter	\$ 11.10
For each service requiring a 1" meter	\$ 26.50
For each service requiring a 1 1/2" meter	\$ 52.19
For each service requiring a 2" meter	\$ 83.00
For each service requiring a 3" meter	\$ 154.90
For each service requiring a 4" meter	\$ 257.62
For each service requiring a 6" meter	\$ 514.41
For each service requiring a 8" meter	\$ 822.55

April 2018 Update
Adopted June 6, 2017
Sewer Rate Schedule

Appendix 7.12
MDNR General Operating Permit (issued
October 22, 2018) and MDNR Email for
Clarification

Chad Sayre

From: Chad Sayre
Sent: Monday, January 07, 2019 1:13 PM
To: Chad Sayre
Subject: Port Perry Service Company WWTF

----- Original message -----

From: "Mackey, Collin" <Collin.Mackey@dnr.mo.gov>
Date: 1/3/19 11:56 AM (GMT-06:00)
To: Stephen Lin <SLin@allstateconsultants.net>
Subject: Port Perry Service Company WWTF

Hi Steven,

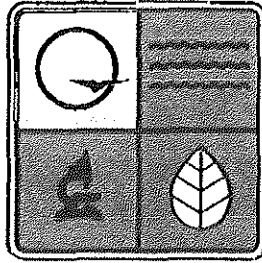
Thank you for your question regarding the conversion of Port Perry Service Company WWTF from site-specific permit MO0116998 to general permit MOG823126. After looking into this permit, it appears that this was indeed an oversight. Since the design flow of this facility is 74,000 gpd, and the MOG823 limitation is a design flow of 50,000 gpd, it was an error to convert this facility to a general permit. We will be converting your permit back to a site-specific permit. This will not have any changes on your fees, sampling, etc. Thank you again for bringing this to my attention.

Collin Mackey

Water Quality Standards Unit
Watershed Protection Section
Water Protection Program
Missouri Department of Natural Resources
PO Box 176; Jefferson City, MO 65102-0176
Phone: (573)526-6929 Fax: (573) 526-6802

We'd like your feedback on the service you received from the Missouri Department of Natural Resources. Please consider taking a few minutes to complete the department's Customer Satisfaction Survey at <https://www.surveymonkey.com/r/MoDNRsurvey>. Thank you.

Missouri Department of Natural Resources



NOTIFICATION OF PERMIT REMOVAL

Date removed:

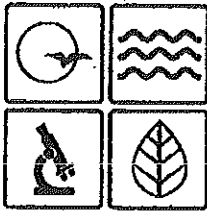
Facility Name: Port Perry Service Company

Permit Number: MO-0116998

County: Perry

Reason for removal: The Department has terminated Permit # MO-0116998. This facility is now operating under Missouri State Operating Permit # MOG823126. The Master General Permit template can be found on the Department's website at: <https://dnr.mo.gov/env/wpp/permits/issued/docs/G823000.pdf>. Requirements applicable to this facility are outlined in the template.

If you have any questions about this permit please contact Collin Mackey at 573-526-6929 or by email at collin.mackey@dnr.mo.gov.



Missouri Department of dnr.mo.gov

NATURAL RESOURCES

Michael L. Parson, Governor

Carol S. Comer, Director

OCT 22 2018

Mr. Mike Yamnitz
P.O. Box 43
Perryville, MO 63775

Dear Mr. Yamnitz:

As part of the Missouri Department of Natural Resources' continuing efforts to find more efficient methods of protecting our state's natural resources, a state-wide general permit has been developed to cover treatment facilities like yours. This letter is to advise you that Port Perry Service Company meets applicability requirements for general permit "MOG823 – Land Application of Domestic Wastewater." General permits are issued to multiple locations where activities are similar enough to be covered by a single set of requirements. In an effort to cover the most eligible facilities, multiple sets of effluent limitations were included in the general permit. Please be sure to relay this information to any applicable operators or sampling contractors that may be affected by the change. The site-specific permit MO-0116998 is terminated in accordance with Subsection (10)(B) of the Missouri Clean Water Commission regulation 10 CSR 20-6.010 and is replaced with general permit MO-G823126.

This permit is both your Federal National Pollutant Discharge Elimination System Permit and your new Missouri State Operating Permit and replaces all previous State Operating Permits issued for this facility under this permit number. In all future correspondence regarding this facility, please refer to your State Operating Permit number and facility name as shown on page one of the permit.

If you were adversely affected by this decision, you may be entitled to an appeal before the Administrative Hearing Commission (AHC) pursuant to 10 CSR 20-1.020 and Section 621.250, RSMo. To appeal, you must file a petition with the AHC within 30 days after the date this decision was mailed or the date it was delivered, whichever date was earlier. If any such petition is sent by registered mail or certified mail, it will be deemed filed on the date it is mailed; if it is sent by any method other than registered mail or certified mail, it will be deemed filed on the date it is received by the AHC. Contact information for the AHC is: Administrative Hearing Commission, United States Post Office Building, Third Floor, 131 West High Street, P.O. Box 1557, Jefferson City, MO 65102, Phone: 573-751-2422, Fax: 573-751-5018, and website: www.oa.mo.gov/ahc.



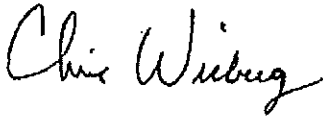
Recycled paper

Port Perry Service Company
Page Two

If you have any questions or comments, please contact Collin Mackey via email at collin.mackey@dnr.mo.gov, by phone at 573-526-6929, by fax at 573-522-9920, or by mail at Department of Natural Resources, P.O. Box 176, Jefferson City, MO 65102. Thank you.

Sincerely,

WATER PROTECTION PROGRAM

A handwritten signature in cursive script that reads "Chris Wieberg".

Chris Wieberg
Director

CW/sm

Enclosure

c: Ms. Sherry Bell, Water Protection Program
Ms. Sherri Rowlett, Data Management Unit

STATE OF MISSOURI
DEPARTMENT OF NATURAL RESOURCES
MISSOURI CLEAN WATER COMMISSION



MISSOURI STATE OPERATING PERMIT

General Operating Permit

In compliance with the Missouri Clean Water Law, (Chapter 644 R.S. Mo as amended, hereinafter, the Law), and the Federal Water Pollution Control Act (Public Law 92-500, 92nd Congress) as amended,

Permit No: MOG823126
Owner: Michael Yamnitz and Brad Moll
Address: PO Box 43
Perryville, MO 63775
Continuing Authority: Michael Yamnitz and Brad Moll
PO Box 43
Perryville, MO 63775
Facility Name: Port Perry Service Company WWTF
Facility Address: 460 Lake Perry Lane
PERRYVILLE, MO 63775
Legal Description: See Page 2
UTM Coordinates: See Page 2
Receiving Stream: See Page 2
First Classified Stream - ID#: See Page 2
USGS# and Sub Watershed#: See Page 2

is authorized to discharge from the facility described herein, in accordance with the effluent limitations and monitoring requirements as set forth herein.

FACILITY DESCRIPTION All Outfalls SIC #4952
All Outfalls - SIC 4952, 6515, 8641

No discharge, private domestic wastewater treatment facilities with design flows of less than 50,000 gallons per day and/or pumping and hauling of domestic wastewater.

This permit authorizes only wastewater, including storm water, discharges under the Missouri Clean Water Law and the National Pollutant Discharge Elimination System, it does not apply to other regulated areas. This permit may be appealed in accordance with RSMo Section 644.051.6 and 621.250, 10 CSR 20-6.020, and 10 CSR 20-1.020.

November 01, 2018
Issue Date

Edward B. Galbraith
Edward B. Galbraith, Director
Division of Environmental Quality

August 24, 2022
Expiration Date

Chris Wieberg
Chris Wieberg, Director
Water Protection Program

Outfall Number: 001
Legal Description: Sec. 08, T34N, R09E, Perry County
UTM Coordinates: 759731.392/4172557.144
Receiving Stream: Tributary to Nations Cr.(U)
First Classified Stream - ID#: Nations Cr. (C) 1780.00
USGS# and Sub Watershed#: 07140105 - 0108

Outfall Number: 002
Legal Description: Sec. 08, T34N, R09E, Perry County
UTM Coordinates: 759644.503/4172785.532
Receiving Stream: Tributary to Nations Cr.(U)
First Classified Stream - ID#: Nations Cr. (C) 1780.00
USGS# and Sub Watershed#: 07140105 - 0108

APPLICABILITY

1. This permit authorizes the operation of no-discharge domestic wastewater treatment facilities, with no industrial contributions. Domestic wastewater originates from sanitary conveniences of residences, commercial buildings, factories and institutions, including any stormwater which may have infiltrated into the sewers. This includes permittees (facilities) with the following primary Standard Industrial Classification (SIC) codes:

<u>SIC Code</u>	<u>Activity</u>
4952	Sewerage systems
6515	Residential Mobile Home Parks
8641	Home Owners Associations

or facilities that the Missouri Department of Natural Resources (department) determines are fundamentally the same as facilities that are under the above SIC codes.

2. This permit does not cover land disturbance activities. A land disturbance general permit must be obtained for coverage of land disturbance activities and may be obtained through electronic permitting (ePermitting) at <http://dnr.mo.gov/env/wpp/epermit/help.htm>.
3. For the purposes of this permit, *wastewater irrigation* shall mean any surface application of wastewater, including materials that are incorporated into the soil or 'knifed in.' *Subsurface absorption or dispersal* shall mean systems with primary treatment prior to wastewater entering stationary subsurface distribution lines in the soil. The distribution lines may be pressurized or non-pressurized.
4. For the purpose of this permit, a *wastewater irrigation facility* is a facility where domestic wastewater is irrigated or stored for subsequent irrigation, including earthen basins. The term *wastewater irrigation facility* also applies to haulers who irrigate wastewater. Such haulers must obtain a permit per Standard Conditions III, Section D.
5. For the purpose of this permit, *permitted wastewater irrigation sites* shall be defined as those owned, rented or leased by the permittee. These sites must be listed in the facility description. Wastewater irrigation by permitted contract haulers to sites with a spreading agreement that are not owned, rented or leased by the facility producing or spreading the wastewater are not required to be listed in this permit for the originating facility; however, the contract hauler shall maintain a list of addresses, county plat numbers, or a marked map of these sites as part of their record keeping for the Operation and Maintenance Manual described under permit requirements.
6. All owners of new (since January 12, 2015) no-discharge facilities that receive more than 3,000 gallons per day of domestic wastewater and have their waste pumped and hauled by a contract hauler are required to obtain construction and operating permits from the department.
7. Domestic wastewater shall have undergone at least primary treatment before surface wastewater irrigation or subsurface dispersal. Secondary treatment is recommended for subsurface dispersal systems to extend the functional life span of the system. The following facilities are excluded from this permit:
- Municipal wastewater treatment facilities or other publicly owned treatment works (POTWs) per 10 CSR 20-2.010(59) (these facilities must obtain a site-specific permit); or
 - Facilities with industrial wastewater contributions. Industrial wastewater includes any water that comes into direct contact with or results from the production or use of any raw material, intermediate product, finished product, by-product or waste product. This includes effluent from car washes and similar industrial wastewater as well as both contact and non-contact cooling water. Any water that would otherwise have been considered domestic wastewater, but is contaminated with industrial materials, becomes industrial wastewater.
8. This permit authorizes sludge handling according to the methods contained in the attached Standard Conditions Part III, dated March 1, 2015. If assistance is needed regarding the handling of sludge, facilities are directed to contact the department's appropriate regional office.
9. This permit is not applicable to facilities that surface irrigate wastewater to a public use area, such as a golf course. A subsurface system that is used at a public use area may be authorized by this permit, if all the applicable requirements of this permit are met. Facilities that apply wastewater to a public use area by any method other than a subsurface system must obtain a site-specific permit and are subject to additional requirements, including, but not limited to, disinfection.

10. This permit does not authorize construction of a wastewater treatment facility including surface wastewater irrigation and subsurface dispersal systems. Prior to construction or modification of any domestic wastewater treatment system, the facility must first obtain a construction permit in accordance with 10 CSR 20-6.010(4). Facilities must be designed according to 10 CSR 20-8.
11. Surface wastewater irrigation and subsurface dispersal authorized by this permit shall not occur within:
- 300 feet upstream of streams, lakes, or reservoirs with the designated use of drinking water supply, any public or privately owned well or other drinking water supply;
 - 300 feet of a Class W¹ or mitigated wetland;
 - 300 feet of sinkholes or other direct conduit to groundwater;
 - 150 feet of an occupied residence, public building or public use area;
 - 50 feet of the permitted facility's property line, public road, or drainage ditch;
 - 500 feet of an Outstanding State Resource Water¹ (OSRW) or Outstanding National Resource Water¹ (ONRW);
 - 100 feet of any perennial or intermittent streams or tributaries, public or privately owned ponds or lakes (as a compliance alternative, a thirty-five (35) foot vegetative buffer that is permanently covered with perennial vegetation may be substituted for the 100 foot set-back requirement);
 - 1,000 feet upstream of streams, lakes, or reservoirs identified as critical habitat for endangered species; or
 - 1,000 feet upstream of biocriteria reference locations¹.
12. Setback distances determined by regulation in 10 CSR 20-8.020(15)(B) are mandatory for all facilities unless the distance was waived or a different setback distance was approved by the department during the construction permitting process.
13. For facilities operating within the watershed of Outstanding National Resource Waters¹ (ONRW), which includes the Ozark National Riverways and the National Wild and Scenic Rivers System, this permit authorizes no-discharge facilities as defined in 10 CSR 20-6.015(1)(B) to operate.
14. This permit does not apply to facilities employing direct reuse of treated wastewater. Such facilities must disinfect year-round, and may be required by the department to obtain the services of a certified operator in order to ensure protection of public health.
15. Holders of current individual, site-specific permits who desire to apply for inclusion under this general permit should contact the department for application requirements and procedures.
16. If at any time, the owner of the permitted facility should desire to apply for a site-specific permit, the owner may do so.
17. This permit does not apply to rapid infiltration wastewater irrigation systems where groundwater monitoring may be required.
18. The department may require any facility authorized by a general permit to apply for a site-specific permit [10 CSR 20-6.010(13)(C)]. Cases where a site-specific permit may be required include, but are not limited to, the following:
- The department determines that the quality of waters of the state may be better protected by requiring the owner/operator of a permitted site to apply for a site-specific permit;
 - The discharger is not in compliance with the conditions of the general permit;
 - A Total Maximum Daily Load (TMDL) containing requirements applicable to the permit is approved.
19. A single-family lagoon serving an individual residence on an individual lot is the jurisdictional responsibility of the Missouri Department of Health and Senior Services, Onsite Wastewater Treatment Program or the local onsite wastewater authority and does not qualify for the no-discharge lagoon exemption or this operating permit.

EXEMPTIONS FROM PERMIT REQUIREMENTS

- All 3,000 gallons per day or less no-discharge domestic wastewater facilities that land apply may be considered exempt, unless it is determined by the department that the operating practices are not adequate and that an operating permit is necessary to protect public health and the environment.

¹ Identified or described in 10 CSR 20-7. These regulations are available at many libraries and online at www.sos.mo.gov/adrules/csr/current/10csr/10csr.asp, or may be purchased from the department by calling the department's Water Protection Program.

2. One time or short-term wastewater irrigation events during clean-up of spills or environmental emergencies are exempted with prior approval from the department.
3. The exemptions listed above from no-discharge permit requirements are allowed unless required under 10 CSR 20-6.015(2)(B). Permits may be required from otherwise exempt facilities where necessary to protect the environment, including:
 - (a) To correct noncompliance;
 - (b) To ensure when the department has determined that construction or operating practices are not adequate, that the facility will be operated in a no-discharge manner;
 - (c) To require, by departmental determination from an on-site visit, that construction and operating permits are necessary for special operating controls or monitoring and reporting of site-specific conditions such as groundwater effects, surface runoff, waste or wastewater characteristics, topography, geology, watershed factors or wastewater irrigation loading rates;
 - (d) When an unauthorized discharge has occurred or has the potential to occur;
 - (e) When a discharge results in violation of water quality standards under 10 CSR 20-7.031; or
 - (f) Other relevant factors.

PERMIT REQUIREMENTS (Applicable to all facilities)

1. **Electronic Discharge Monitoring Report (eDMR) Submission System.**
Per 40 CFR Part 127 National Pollutant Discharge Elimination System (NPDES) Electronic Reporting Rule, reporting of effluent limits and monitoring shall be submitted by the permittee via an electronic system to ensure timely, complete, accurate, and nationally-consistent set of data about the NPDES program. All general permit covered facilities under this master general permit shall comply with the department's requirements for electronic reporting.
 - (a) **Discharge Monitoring Reporting Requirements.**
 - 1) Application to participate in the department's eDMR system is required as part of the application for general permit coverage in order to constitute a complete permit application. General information may be accessed at dnr.mo.gov/env/wpp/edmr.htm and the [eDMR Permit Holder and Certifier Registration form \(Form MO 780-2204\)](http://dnr.mo.gov/forms/780-2204-f.pdf) at <http://dnr.mo.gov/forms/780-2204-f.pdf>.
 - 2) The permittee must electronically submit compliance monitoring data via the eDMR system. In regards to Standard Conditions Part I, Section B, #7, the eDMR system is currently the only department approved reporting method for this permit.
 - 3) If a subcategory of this permit requires no discharge monitoring report or annual operational report to be submitted and that subcategory is the only applicable requirement, participation in eDMR is not required (e.g., subsurface dispersal). A waiver is not required if reporting is not required per the permit.
 - (b) **Other actions.** The following shall be submitted electronically after such a system has been made available by the department:
 - 1) General Permit Applications/Notices of Intent to discharge (NOIs);
 - 2) Notices of Termination (NOTs);
 - 3) No Exposure Certifications (NOEs); and
 - 4) Low Erosivity Waivers (LEWs) and Other Waivers from Stormwater Controls.
 - (c) **Electronic Submissions.** To access the eDMR system, use the following link in your web browser: <https://edmr.dnr.mo.gov/edmr/E2/Shared/Pages/Main/Login.aspx>.
 - (d) **Waivers from Electronic Reporting.**
 - 1) The permittee must electronically submit compliance monitoring data and reports unless a waiver is granted by the department in compliance with 40 CFR Part 127.
 - 2) The permittee may obtain a temporary or permanent electronic reporting waiver by first submitting an eDMR Waiver Request Form (Form 780-2692): <http://dnr.mo.gov/forms/780-2692-f.pdf>, by contacting the appropriate permitting office or emailing edmr@dnr.mo.gov. The department will either approve or deny this electronic reporting waiver request within 120 calendar days of receipt.
 - 3) Only permittees with an approved waiver request may submit monitoring data and reports on paper to the department for the period that the approved electronic reporting waiver is effective.
2. Wastewater treatment systems owned or operated by a private sewer company regulated by the Public Service Commission shall comply with any applicable requirements listed in 10 CSR 20-9, including the requirement to obtain a certified operator, unless the facility has received written notification that the department has approved a modification to the requirements. The conditions contained in this permit shall not be construed by the facility as a modification of the requirements listed in 10 CSR 20-9.

3. All surface wastewater irrigation and subsurface dispersal locations must be displayed on a map and made available to the department upon request. Access to the storage basin(s), tank(s), and any associated wastewater irrigation equipment must be sufficiently restricted or secured to prevent entry by children, livestock and unauthorized persons. Subsurface dispersion field should have controlled access to prevent damage to the system. Any applicable access hatches and alarm control panels shall remain locked at all times unless undergoing maintenance or pumping activities.
4. If fenced, at least one gate must be provided to access the wastewater treatment facility and provide for maintenance and mowing. The gate shall remain locked except when opened by the permittee to perform operational monitoring, sampling, maintenance, mowing, or for inspections by the department.
5. At least one (1) warning sign shall be placed on each side of the facility (does not pertain to irrigation fields) in such positions as to be clearly visible from all directions of approach. There shall also be one (1) sign placed for every five hundred feet (500') (150 m) of the perimeter fence, if area is fenced. A sign shall also be placed on each gate, if applicable. Minimum wording shall be WASTEWATER TREATMENT FACILITY—KEEP OUT. Signs shall be made of durable materials with characters at least two inches (2") high and shall be securely fastened to the fence, equipment or other suitable locations.
6. An all-weather access road shall be provided and maintained for access to the treatment facility.
7. The permittee will cease operation/pumping and hauling by connection to a facility with an area-wide management plan per 10 CSR 20-6.010(3) within 90 days of notice of its availability unless such facility does not have sufficient capacity, jurisdiction, or is forbidden by statute or ordinance from providing service and has provided a written waiver of preferential status.
8. There shall be no discharge of any material from this facility to waters of the state. Wastewater shall be stored and irrigated during suitable conditions or pumped and hauled so that there is no discharge from the storage basins/holding tanks or irrigation sites. The permittee shall take necessary steps to ensure wastewater is either irrigated in accordance with the requirements of this permit or collected and properly disposed of at a permitted treatment facility. Any discharge to waters of the state is to be reported to the department during normal business hours or to the Environmental Emergency Response hotline at 573-634-2435 outside of business hours, but always within 24 hours of the discharge. Any discharge shall be monitored according to Table C of this permit.
9. Any discharge from a no-discharge facility will be considered a violation of this permit unless a catastrophic or chronic storm event as defined in 10 CSR 20-6.015(1)(B) occurs. During a catastrophic or chronic storm event, the no-discharge facility is authorized to release only the amount of stormwater required to prevent damage to the facility or established Best Management Practices (BMPs).
10. It is a violation of the Missouri Clean Water Law to fail to pay fees associated with this permit, which can be found at 10 CSR 20-6.011 (644.055, RSMo.).
11. Facilities desiring coverage under this permit shall be constructed and operated in accordance with 10 CSR 20-8. Exceptions or deviations may be considered by the department when appropriate, and authorized in writing (such as in a construction permit). Facilities not constructed in accordance with current design standards may be required to obtain a site-specific permit, or must upgrade to meet current design standards, when determined necessary to protect waters of the state.
12. The permittee shall develop, maintain and implement an Operation and Maintenance (O&M) Manual that includes all necessary items to ensure the operation and integrity of the waste handling and wastewater systems, including key operating procedures, an aerial or topographic site map with the permitted features, irrigation/dispersal fields, and set back/buffer zones marked, and a brief summary of the operation of the facility. The O&M manual shall be made available to the operator and to department personnel on request and shall be reviewed and updated at least every five (5) years or whenever there is a change in equipment or irrigation sites. The department has published a *No Discharge Operation and Maintenance Manual Checklist* (PUB02704) fact sheet available at <http://dnr.mo.gov/pubs/pub2704.htm> that may be used as a guide.
13. Surface systems and land application sites shall be visually inspected at least once/day when wastewater irrigation or dispersal occurs to check for equipment malfunctions and runoff from the sites.
14. Subsurface systems and application sites shall be visually inspected at least once/month to check for equipment malfunctions and runoff from the sites.

SURFACE WASTEWATER IRRIGATION OPERATIONAL REQUIREMENTS

TABLE A		WASTEWATER IRRIGATION FACILITY MONITORING REQUIREMENTS				
The facility is authorized to conduct wastewater irrigation of domestic wastewater as specified in this permit. The irrigation of domestic wastewater shall be controlled, limited, and monitored by the facility as specified below:						
Surface Wastewater Irrigation Operational Monitoring (Note 1)						
Limit Set: LA						
PARAMETER(S)	UNITS	FINAL LIMITATIONS			MONITORING	
		DAILY MAXIMUM	WEEKLY AVERAGE	MONTHLY TOTAL	SAMPLING FREQUENCY	SAMPLE TYPE
Irrigation Period	hours	*		*	daily	total
Volume Irrigated	gallons	*		*	daily	total
Application Area	acres	*		*	daily	total
Application Rate	inches	*		*	daily	total
WASTEWATER IRRIGATION MONITORING REPORTS SHALL BE SUBMITTED <u>MONTHLY</u> VIA THE DEPARTMENT'S eDMR SYSTEM. SHOULD A WAIVER TO eDMR BE GRANTED BY THE DEPARTMENT, PAPER REPORTS SHALL BE SUBMITTED TO THE APPROPRIATE REGIONAL OFFICE. REPORTS ARE DUE <u>DECEMBER 28, 2018</u> , FOR THE PREVIOUS MONTH. IT IS A VIOLATION OF THIS PERMIT TO FAIL TO REPORT AS REQUIRED.						

* Monitoring requirement only. Monitor as required in this table and report resulting value monthly.

Note 1 – Facilities shall monitor required parameters when wastewater irrigation occurs during the reporting period. Daily monitoring is required only when wastewater irrigation occurs. If irrigation does not occur during the reporting period, no reporting for limit set LA is required for that reporting period.

1. This general permit authorizes the surface wastewater irrigation of only domestic wastewater. There shall be no surface wastewater irrigation of any pollutant in sufficient amounts to cause harm to the soil structure or productivity, or cause stress or toxicity to plant life.
2. Treatment of wastewater prior to application shall be adequate to prevent nuisance conditions from occurring in the treatment facility, storage basins or on the application site per 10 CSR 20-8.220(5)(A).
3. Surface wastewater irrigation of domestic wastewater:
 - (a) Shall not result in a surface ponding or runoff of wastewater from wastewater irrigation fields;
 - (b) Shall not occur during ground frost, frozen, snow covered, or saturated soil conditions, or when precipitation is imminent or occurring;
 - (c) Shall occur during daylight hours;
 - (d) Shall not occur on slopes exceeding 20 percent (%);
 - (e) Shall occur at one-half the hourly application rate on slopes over 10 percent (%) and up to 20%.
4. Per 10 CSR 20-8.020(15)(F)6., hourly application rates shall not exceed one-half (1/2) inch per hour.
5. Wastewater may be surface irrigated to hay, row crop or timber. Surface application rates shall not exceed 1.0 inch per day, 3.0 inches per week or 24 inches per year.
6. Due to the lack of disinfection requirements in this permit, public access to surface wastewater irrigation area must not be allowed by the permittee.
7. Wastes shall be surface irrigated using a system that shall be operated so as to provide uniform distribution of waste materials over the entire application site. Dumping in batches or piles, or spreading of a pile using a blade, disc, or similar equipment is not acceptable.
8. Surface wastewater irrigation sites shall be well vegetated during the application periods or vegetation should be established as soon as practicable after waste incorporation within the normal crop planting and harvesting season. The use of cover crops may be utilized in keeping wastewater irrigation sites vegetated.
9. Grazing and harvesting deferment [10 CSR 20-8.020(15)(F)10]. Grazing of animals or harvesting of forage crops should be deferred for up to thirty (30) days following wastewater irrigation depending upon ambient air temperature and sunlight conditions. The following deferments shall be considered:
 - (a) During the period from May 1 to October 31 of each year, the minimum deferment from grazing or forage harvesting shall be fourteen (14) days;

- (b) During the period from November 1 to April 30 of each year, the minimum deferment from grazing or forage harvesting shall be thirty (30) days;
 - (c) Grazing of wastewater irrigated land is generally not recommended for gestating or lactating dairy animals unless there has been a much longer deferment period. The recommendations of the State Milk Board shall be followed; and
 - (d) Deferment may not be required for irrigated disinfected wastewater. Disinfected wastewater needs to meet the public access requirement of one hundred twenty six per one hundred milliliters (126 colonies/100 mL).
10. When surface wastewater irrigation occurs on food crops, feed crops, fiber crops and/or turf crops, harvesting said crops will be carried out in strict adherence to the restrictions set forth in 10 CSR 20-8.220.

EARTHEN STORAGE BASIN OPERATIONAL REQUIREMENTS

TABLE B		EARTHEN STORAGE BASIN MONITORING REQUIREMENTS				
The facility is authorized to conduct storage of domestic wastewater as specified in this permit. The storage of domestic wastewater shall be controlled, limited, and monitored by the facility as specified below:						
Storage Basin Operational Monitoring Limit Set: SB						
PARAMETER(S)	UNITS	FINAL LIMITATIONS			MONITORING	
		DAILY MINIMUM	WEEKLY AVERAGE	MONTHLY AVERAGE	SAMPLING FREQUENCY	SAMPLE TYPE
Storage Basin Freeboard (Note 1)	feet	*			once/month	measured
Precipitation	UNITS	DAILY MAXIMUM	WEEKLY AVERAGE	MONTHLY AVERAGE	SAMPLING FREQUENCY	SAMPLE TYPE
	inches	*			daily	24 hour estimate
STORAGE BASIN MONITORING REPORTS SHALL BE SUBMITTED <u>MONTHLY</u> VIA THE DEPARTMENT'S eDMR SYSTEM. SHOULD A WAIVER TO eDMR BE GRANTED BY THE DEPARTMENT, PAPER REPORTS SHALL BE SUBMITTED TO THE APPROPRIATE REGIONAL OFFICE. REPORTS ARE DUE <u>DECEMBER 28, 2018</u> , FOR THE PREVIOUS MONTH. IT IS A VIOLATION OF THIS PERMIT TO FAIL TO REPORT AS REQUIRED.						

* Monitoring requirement only. Monitor as required in this table and report resulting value monthly.

Note 1 – Storage basin freeboard shall be reported as storage basin water level in feet below the overflow level and shall be reported as a daily minimum. If the facility does not have a storage basin the facility shall not be assigned this permitted feature and storage basin operational monitoring and reporting is not required.

1. In order to ensure proper operation, maintenance and maximum storage capacity for the winter months when soil conditions may not be suitable for wastewater irrigation, the storage basin(s) shall be:
 - (a) Lowered to the minimum operating level during the months of September through November unless the department approves a specific deviation from this requirement; or
 - (b) The basin's design provides sufficient capacity to prevent discharge as approved by the department per 10 CSR 20-8.
2. Storage basins shall be inspected monthly for structural integrity and leaks.
3. The minimum and maximum operating water levels for each storage basin shall be clearly marked. Each basin shall be operated so that freeboard is more than two (2) feet below the overflow point except during a catastrophic or chronic storm event as defined in 10 CSR 20-6.015(1)(B). See Emergency Bypass conditions below.
4. Earthen storage basins shall have an emergency spillway to protect the structural integrity of earthen structures during operation at near full water levels and in the event of overflow conditions. The spillway shall be at least one foot below top of berm. It is a violation of this permit to place material in the emergency spillway or otherwise cause it to cease to function properly, as this may result in a catastrophic failure of the storage basin.
5. The facility shall ensure that adequate provisions are made to prevent surface water intrusion into the storage basin(s) and to divert stormwater runoff around the storage basin(s) to protect embankments from erosion.
6. The inner and outer berm slopes of the storage basin (if applicable) shall be maintained in such a way as to remain consistent with design standards. Special consideration shall be given to methods of access to prevent damage to the berm. The berms of storage basins shall be mowed and kept free of deep-rooted vegetation, animal dens or other potential sources of damage to the structural integrity of the berms.

7. Bypasses are not authorized at this facility and are subject to 40 CFR 122.41(m). If a bypass occurs, the permittee shall report in accordance to 40 CFR 122.41(m)(3)(i), and with Standard Condition Part I, Section B, subsection 2. Bypasses are to be reported to the appropriate department regional office. Any discharge from storage basins shall be reported to the department as a bypass as soon as possible, but always within 24 hours of the facility becoming aware of the discharge, whether or not the permittee believes such discharges reach waters of the state.
8. **Emergency Bypass:**
- An emergency discharge from wastewater storage structures may only occur if rainfall exceeds the 10-year 365-day rainfall event (chronic) or the 25-year 24-hour rainfall event (catastrophic) according to National Weather Service data. Design Storm Maps and Tables can be found at http://ag3.agedb.missouri.edu/design_storm/ or http://hdsc.nws.noaa.gov/hdsc/pfds/pfds_map_cont.html?bkmrk=mo.
 - The facility shall make all reasonable attempts to return the water level in the basin to below the maximum operating level.
 - Monitoring:** Any emergency discharge shall be monitored daily for five consecutive days beginning within six (6) hours of discovery. Sampling shall then occur once per week until the discharge ceases. The facility shall submit test results, along with the number of days the storage basin(s) has discharged during the month, to the appropriate regional office or via the Electronic Discharge Monitoring Report (eDMR) Submission System by the 28th day of the month after the discharge ceases. Permittee shall monitor for the following constituents:

Constituent (Limit Set: EB)	Units	Sample Type
Flow	mgd	measured
Biochemical Oxygen Demands	mg/L	grab
Total Suspended Solids	mg/L	grab
Total Ammonia Nitrogen	mg/L	grab
pH	Standard Units	grab
<i>E. coli</i> *	#/100 mL	grab

* Sampling for *E. coli* is only required during the recreational months of April – October and reported as a daily maximum and monthly geometric mean.

9. The permittee is required to record and maintain precipitation data as part of this permit. If the permittee fails to collect and record precipitation data, the department will rely upon data from the nearest reliable weather data collection station when determining compliance with this permit.

SUBSURFACE DISPERSAL OPERATIONAL REQUIREMENTS

- Subsurface dispersion is authorized during snow covered conditions, but subsurface systems shall not operate when soil is frozen at the depth of dispersion.
- Subsurface application rates shall be determined through the construction permit process, and shall not exceed the soil permeability and loading rate at the time of application. Subsurface application shall not cause surfacing of wastewater.
- For subsurface systems, vegetation such as grasses or other non-food crops must be grown over the system.
 - The only equipment allowed on the area with the subsurface system is equipment used to maintain the vegetation.
 - Barriers may be required to protect the soil treatment area of the subsurface system.
 - No livestock shall be allowed to use the area where the subsurface system is installed.
- Records of maintenance for subsurface systems must be maintained for at least five (5) years. Examples include filter replacement, pumping (removal) of sludge from tanks, etc. These records shall be made available during inspection, or upon request to the department.
- Participation in the department's eDMR system is required for Form S reporting, as an attachment when reporting a limit set requirement or if no other limit sets are required, once Form S becomes available for online entry. For facilities that have no other reporting, eDMR is not required until Form S becomes available for online entry,

6. Subsurface dispersal systems are considered to be Class V wells if they have the capacity to serve twenty (20) or more people and shall comply with the reporting requirements of 40 CFR 144.26. For each active, new or modified Class V Well, submit a Class V Well Inventory Form to the Missouri Department of Natural Resources, Geological Survey Program, P. O. Box 250, Rolla, Missouri 65402. This form can be requested from the Geological Survey Program or can be found at the following website: <http://dnr.mo.gov/forms/780-1774-f.pdf>.
7. All subsurface dischargers must comply with 40 CFR 144.82, which prohibits the movement of fluids containing any contaminant into underground sources of drinking water (USDWs) during the construction, maintenance, conversion, and plugging or closure of injection wells.
8. Per 40 CFR 144.12(c) and 40 CFR 144.82(a)(2), if at any time the department learns that a Class V well may cause a violation of primary drinking water regulations under 40 CFR 142, the permittee shall complete one of the following actions upon instruction by the department:
 - (a) Obtain an individual site-specific permit;
 - (b) Take such actions as may be necessary to prevent the violation; or
 - (c) Comply with conditions imposed by the department during enforcement action.

PUMP AND HAUL OPERATIONAL REQUIREMENTS

Table D PUMP AND HAUL SYSTEM LIMITATIONS AND MONITORING REQUIREMENTS						
The permittee is authorized to store domestic wastewater for pump and haul as specified in the application for this permit. The storage and disposal of domestic wastewater shall be controlled, limited and monitored by the permittee as specified below:						
Holding Tank Operational Monitoring (Note 1)						
Limit Set: PH						
EFFLUENT PARAMETER(S)	UNITS	FINAL LIMITATIONS			MONITORING REQUIREMENTS	
		DAILY MINIMUM		DAILY MAXIMUM	MEASUREMENT FREQUENCY	SAMPLE TYPE
Volume Pumped	gallons			*	daily	total
Freeboard in Tank (Note 2)	feet	*			daily	total
MONITORING REPORTS SHALL BE SUBMITTED MONTHLY VIA THE DEPARTMENT'S EDMR SYSTEM. SHOULD A WAIVER TO EDMR BE GRANTED BY THE DEPARTMENT, PAPER REPORTS SHALL BE SUBMITTED TO THE APPROPRIATE REGIONAL OFFICE. REPORTS ARE DUE <u>N/A</u> FOR THE PREVIOUS MONTH. IT IS A VIOLATION OF THIS PERMIT TO FAIL TO REPORT AS REQUIRED.						

* Monitoring requirement only. Monitor as required in this table and report the resulting value monthly.

Note 1 – If pumping did not occur during the report period, report as zero (0) gallons. By reporting zero gallons, the permittee is certifying that pumping did not occur.

Note 2 – Freeboard is the difference in elevation between the static liquid level and the level where accumulated liquid would discharge from the holding tank.

1. If the facility does not have an earthen storage basin, existing storage tanks possessing an effluent discharge port shall be permanently plugged at the tank within 30 days of the effective date of this permit.
2. At least one facility staff member familiar with the O&M manual shall be present on site when the facility is being pumped.
3. High-level alarms and associated telemetry equipment on wastewater storage structures shall be installed within 180 days of the effective date of this permit and must be maintained in good working order. High-level alarms shall be positioned in a location to allow adequate time for the operator of the facility to have the accumulated liquid removed before an unpermitted discharge would occur. The alarms and telemetry system shall be manually tested at least once per quarter.
4. Annual Operating Report: Records shall be maintained and summarized into an annual operating report, which shall be submitted by January 28th of each year for the previous calendar year period using report forms provided by or approved by the department. The summarized annual operating report is in addition to the reporting requirements listed in Table D. The summarized annual operating report shall include the following:
 - (a) Record of maintenance and repairs performed during the year, average number of times per month the facility is checked to see if it is operating properly, and description of any unusual operating conditions encountered during the year;

- (b) If illegal discharges from the holding tank/storage basin occurred during the year, provide how many days the discharges occurred, the discharge flows, the reasons discharges occurred; and cleanup activities related to the discharges;
- (c) A summary of the operations including number of times pumped, dates pumped, and total volume pumped;
- (d) Name, business address, and phone number of the contract hauler; and
- (e) Documentation that high-level alarms and telemetry system have been tested.

STANDARD CONDITIONS

1. In addition to specified conditions stated herein, this permit is subject to the attached Standard Conditions Parts I and III, dated August 01, 2014 and March 1, 2015, respectively; and hereby incorporated as though fully set forth herein.
2. The full implementation of this operating permit, which includes implementation of any applicable schedules of compliance, shall constitute compliance with all applicable federal and state statutes and regulations in accordance with §644.051.16, RSMo, and the CWA section 402(k); however, this permit may be reopened and modified, or alternatively revoked and reissued to comply with any applicable effluent standard or limitation issued or approved under Sections 301(b)(2)(C) and (D), 304(b)(2), and 307(a) (2) of the Clean Water Act, if the effluent standard or limitation so issued or approved:
 - (a) Contains different conditions or is otherwise more stringent than any effluent limitation in the permit; or
 - (b) Controls any pollutant not limited in the permit.

PERMIT RENEWAL

Unless terminated, the permittee shall submit an application for the renewal of this permit by submitting *Form B – Application for Operating Permit for Domestic Wastewater* (Form MO-780-1512) <http://dnr.mo.gov/forms/780-1512-f.pdf> no later than thirty (30) days prior to the permit's expiration date. If a facility submits a timely and complete application in accordance with 10 CSR 20-6.010(5)(B), (5)(C), and (10)(E)1, as well as § 644.051.10, RSMo 2015, if the department is unable, through no fault of the permittee, to issue a renewal prior to expiration of the previous permit, the terms and conditions of the expired permit are administratively continued and will remain fully effective and enforceable until such time when a permit action is taken. Failure to submit a renewal application for a facility that is still in operation is a violation of the Missouri Clean Water Law.

As part of the complete application and as required by the federal NPDES eReporting rule, participation in the department's Electronic Discharge Monitoring Report Submission System (eDMR) will be required, as applicable. Facilities already participating in eDMR need not re-apply upon renewal. Facilities required to participate that are not yet active shall submit the eDMR Permit Holder and Certifier Registration form (Form MO-780-2204) at <http://dnr.mo.gov/forms/780-2204-f.pdf>, unless an alternative is available such as CROMERR services. If qualified, facilities may obtain a temporary or permanent electronic reporting waiver by submitting an eDMR Waiver Request Form (Form MO-780-2692): <http://dnr.mo.gov/forms/780-2692-f.pdf>. More information can be found at: <http://dnr.mo.gov/env/vpp/edmr.htm>.

Failure to apply for renewal of a permit may result in termination of this permit and enforcement action to compel compliance with this condition and the Missouri Clean Water Law.

PERMIT TRANSFER

This permit may not be transferred to a new owner in any fashion except by submitting an *Application for Transfer of Operating Permit* (Form MO-780-1517) <http://dnr.mo.gov/forms/780-1517-f.pdf> signed by the seller and buyer of the facility along with the appropriate modification fee. In some cases, revocation and reissuance may be necessary. Facilities with transfers carried out without proper notice to the department will be considered to be operating without a permit and may be assessed an administrative penalty.

PERMIT TERMINATION

The permittee shall apply for permit termination when activities covered by this permit have ceased and no significant materials [as defined by 10 CSR 20-6.200(1)(C)27.] remain on the property or if on the property, are stored in such a way as to have no potential for pollution. Proper closure of any storage structure is required prior to permit termination. In order to terminate this permit, the permittee shall notify the department's appropriate regional office by completing and submitting *Form H – Request for Termination of a General Permit* (Form MO-780-1409) <http://dnr.mo.gov/forms/780-1409-f.pdf>. The regional office may require inspection of the premises prior to granting termination of a permit.

**MISSOURI DEPARTMENT OF NATURAL RESOURCES
FACT SHEET**

**MASTER GENERAL PERMIT FOR NO-DISCHARGE DOMESTIC WASTEWATER TREATMENT FACILITIES
UNDER 50,000 GALLONS PER DAY DESIGN FLOW
MO-G823000**

The Federal Water Pollution Control Act ("Clean Water Act" Section 402 Public Law 92-500 as amended) established the National Pollution Discharge Elimination System (NPDES) permit program. This program regulates the discharge of pollutants from point sources into the waters of the United States, and the release of storm water from certain point sources. All such discharges are unlawful without a permit (Section 301 of the "Clean Water Act"). After a permit is obtained, a discharge not in compliance with all permit terms and conditions is unlawful. Missouri State Operating Permits (MSOPs) are issued by the Director of the Missouri Department of Natural Resources (department) under an approved program, operating in accordance with federal and state laws (Federal "Clean Water Act" and "Missouri Clean Water Law" Section 644 as amended). MSOPs are issued for a period of five (5) years unless otherwise specified.

As per 40 CFR Part 124.8(a) and 10 CSR 20-6.020(1)2., a Factsheet shall be prepared to give pertinent information regarding the applicable regulations, rationale for the development of effluent limitations and conditions, and the public participation process for the Missouri State Operating Permit (operating permit) listed below.

A Factsheet is not an enforceable part of an operating permit.

This Factsheet is for a:

Master General Permit

Part I – Facility Information

Facility Type: Non-POTW, wastewater irrigation, subsurface dispersal, storage and hauling of domestic wastewater
Facility SIC Code(s): SIC 4952- Sewerage Systems, 6515- Residential Mobile Home Parks, 8641- Home Owners Associations and any other SIC code so long as the discharge is limited to the facility type listed in applicability.

Facility Description:

No-discharge domestic wastewater treatment facilities under 50,000 gallons per day of design flow. Separate general permits may be made available for discharging facilities. This permit does not apply to:

- (a) Municipal wastewater treatment facilities;
- (b) Any other facility required by the department to obtain the services of a certified operator per 10 CSR 20-9.020(2)(A);
- (c) Facilities which apply more than 24 inches of wastewater per year; or
- (d) Facilities with industrial wastewater contributions.

Domestic wastewater means wastewater originating from the sanitary conveniences of residences, commercial buildings, restaurants, factories, institutions, etc. including food preparation areas. It does not include industrial process wastewater, industrial stormwater, or other non-domestic flows. Wastewater that would normally be considered as domestic wastewater but becomes commingled with industrial process wastewater is considered to be all process wastewater.

CHANGES AND CLARIFICATION

- Changes to this permit include the added requirement for electronic reporting per 40 CFR Part 127 National Pollutant Discharge Elimination System (NPDES) Electronic Reporting Rule. Reporting of effluent limits and monitoring shall be submitted by the permittee via an electronic system to ensure timely, complete, accurate, and nationally-consistent set of data about the NPDES program. eDMR reporting has been added to this permit. All general covered permitted facilities under this master general permit shall comply with the department's requirements for electronic permitting if they have reporting requirements. Application to participate in the eDMR system is required as part of the application for general permit coverage in order to constitute a complete permit application. More information may be found at <http://dnr.mo.gov/env/wpp/edmr.htm> with the registration form at <http://dnr.mo.gov/forms/780-2204-f.pdf>. Facilities with only subsurface dispersal have no reporting requirements and thus have no need to apply for participation in the eDMR system. The facility may, under certain circumstances, apply for a temporary or permanent waiver from electronic reporting by submitting eDMR Waiver

Request form (Form 780-2692, <http://dnr.mo.gov/forms/780-2692-f.pdf>) to the appropriate permitting office. You may access the eDMR system using the following link:
<https://edmr.dnr.mo.gov/edmr/E2/Shared/Pages/Main/Login.aspx>.

- Other changes include the general restructuring of the permit to match current departmental templates and the use of the most up-to-date language available for use by the department.
- Provisions have been added to the permit to allow for Pump and Haul of domestic wastewater.
- Private facilities regulated by the Public Service Commission are now allowed coverage under this permit so long as they meet all requirements in 10 CSR 9.020.
- Some domestic wastewater treatment facilities have been excluded from this permit in order to avoid additional burden on the remaining facilities. For example, municipal facilities must sample influent and report removal efficiency (as well as several other conditions and requirements). Inclusion of municipal facilities would require all permittees to sample influent, at significant expense. Municipal facilities will continue to be covered by site-specific permits.
- Some water that may otherwise have been considered domestic wastewater can become regulated as industrial wastewater if it has become contaminated with industrial materials. For example, an employee shower facility, where dust from manufacturing laden with heavy metals is washed into the sewer system, will result in a wastewater that has a significant concentration of that heavy metal. This permit is protective of the environment with typical domestic wastewater, which includes the pollutants Biochemical Oxygen Demand, Total Suspended Solids, Ammonia, and small amounts of Oil & Grease. Domestic wastewater will contain traces of other pollutants, but not significant concentrations of other pollutants that are typical of industrial processes, such as chlorides, heavy metals, solvents, etc. These other pollutants, if present in significant concentrations, can cause harm to the soil or to groundwater.
- Outstanding National Resource Waters (ONRW) or Outstanding State Resource Waters (OSRW): At permit renewal, the department will examine monitoring reports submitted by a facility located within the watershed of an ONRW or an OSRW to determine if this permit is still appropriate for the facility. If degradation of water quality has occurred, the department may require the facility to apply for a site-specific permit

Part II – Receiving Stream Information

APPLICABLE DESIGNATIONS OF WATERS OF THE STATE:

Per Missouri Effluent Regulations (10 CSR 20-7.015), the waters of the state are divided into seven (7) categories. This permit applies to facilities discharging to the following water body categories:

- Missouri or Mississippi River [10 CSR 20-7.015(2)]
- Lakes or Reservoirs [10 CSR 20-7.015(3)]
- Losing Streams [10 CSR 20-7.015(4)]
- Metropolitan No-Discharge Streams [10 CSR 20-7.015(5)]
- Special Streams [10 CSR 20-7.015(6)]
- Subsurface Waters [10 CSR 20-7.015(7)]
- All Other Waters [10 CSR 20-7.015(8)]

Missouri Water Quality Standards (10 CSR 20-7.031) defines the Clean Water Commission water quality objectives in terms of "water uses to be maintained and the criteria to protect those uses." The receiving stream and/or 1st classified receiving stream's beneficial water uses shall be maintained in accordance with 10 CSR 20-7.031(4). A general permit does not take into consideration site-specific conditions.

MIXING CONSIDERATIONS:

This permit applies to receiving streams of varying low flow conditions. Therefore, the effluent limitations must be based on the smallest low flow streams considered, which includes waters without designated uses. As such, no mixing is allowed.

- Not Applicable: Mixing Zone [10 CSR 20-7.031(5)(A)4.B.(1)(a)]
- Not Applicable: Zone of Initial Dilution [10 CSR 20-7.031(5)(A)4.B.(1)(b)]

RECEIVING STREAM(S):

Not Applicable: Because this permit is for no-discharge systems, this permit is applicable to all settings except those excluded by the setback requirements.

RECEIVING STREAM MONITORING REQUIREMENTS:

Not Applicable: No receiving water monitoring requirements recommended at this time. Low rate wastewater irrigation and subsurface dispersal systems have no reasonable potential to impact waters of the state when properly conducted.

Part III – Rationale and Derivation of Effluent Limitations & Permit Conditions

ALTERNATIVE EVALUATIONS FOR NEW FACILITIES:

As per 10 CSR 20-7.015(4)(A), discharges to losing streams shall be permitted only after other alternatives including wastewater irrigation, discharges to a gaining stream and connection to a regional wastewater treatment facility have been evaluated and determined to be unacceptable for environmental and/or economic reasons.

Not Applicable: The facility does not discharge to a Losing Stream as defined by 10 CSR 20-2.010(36) & 10 CSR 20-7.031(1)(N), or is an existing facility.

ANTI-BACKSLIDING:

A provision in the Federal Law and Regulations [CWA §303(d)(4); CWA §402(c); 40 CFR Part 122.44(l)] that requires a reissued permit to be as stringent as the previous permit with some exceptions.

The Department has determined that technical mistakes or mistaken interpretations of law were made in issuing the permit under section 402(a)(1)(b).

- **General Criteria.** The previous permit contained a special condition which described a specific set of prohibitions related to general criteria found in 10 CSR 20-7.031(4). In order to comply with 40 CFR 122.44(d)(1), the permit writer has conducted reasonable potential determinations for each general criterion and established numeric effluent limitations where reasonable potential exists. While the removal of the previous permit special condition creates the appearance of backsliding, since this permit establishes numeric limitations where reasonable potential to cause or contribute to an excursion of the general criteria exists the permit maintains sufficient effluent limitations and monitoring requirements in order to protect water quality, this permit is equally protective as compared to the previous permit. Therefore, given this new information, and the fact that the previous permit special condition was not consistent with 40 CFR 122.44(d)(1), an error occurred in the establishment of the general criteria as a special condition of the previous permit. Please see Part IV – Monitoring and Reporting for more information regarding the reasonable potential determinations for each general criterion related to this facility.

ANTIDegradation:

Antidegradation policies ensure protection of water quality for a particular water body on a pollutant by pollutant basis to ensure Water Quality Standards are maintained to support beneficial uses such as fish and wildlife propagation and recreation on and in the water. This also includes special protection of waters designated as an Outstanding National Resource Water or Outstanding State Resource Water [10 CSR 20-7.031(3)(C)]. Antidegradation policies are adopted to minimize adverse effects on water. The facility must identify all Best Management Practices (BMPs) that are reasonable and effective, taking into account environmental impacts and costs. This permit covers no-discharge facilities. The prescriptive BMPs within the permit will serve as the analysis of alternatives and fulfill the requirements of the Antidegradation Rule and Implementation Procedure 10 CSR 20-7.031(3) and 10 CSR 20-7.015(9)(A)5. Degradation is justified by documenting the socio-economic importance of a discharging activity after determining the necessity of the discharge.

Not Applicable: Because this permit is for no-discharge wastewater irrigation systems, the only discharges allowed under this permit are short-term and intermittent and are expected to be non-degrading or minimally degrading. Compliance with the requirements of this permit meets the requirements of Missouri's Antidegradation Review [10 CSR 20-7.031(3), 10 CSR 20-7.031 Table A, and 10 CSR 20-7.015(9)(A)5].

AREA-WIDE WASTE TREATMENT MANAGEMENT & CONTINUING AUTHORITY:

As per 10 CSR 20-6.010(3)(B), an applicant may utilize a lower preference continuing authority by submitting, as part of the application, a statement waiving preferential status from each existing higher preference authority, providing the waiver does not conflict with any area-wide management plan approved under section 208 of the Federal Clean Water Act or any other regional sewage service and treatment plan approved for higher preference authority by the department.

BIOSOLIDS & SEWAGE SLUDGE:

Biosolids are solid materials resulting from domestic wastewater treatment that meet federal and state criteria for beneficial uses (i.e. fertilizer). Sewage sludge is solids, semi-solids, or liquid residue generated during the treatment of domestic sewage in a treatment works; including but not limited to; domestic septage; scum or solids removed in primary, secondary, or advanced wastewater treatment process; and a material derived from sewage sludge. Sewage sludge does not include ash generated during the firing of sewage sludge in a sewage sludge incinerator or grit and screening generated during preliminary treatment of domestic sewage in a treatment works. Additional information regarding biosolids and sludge is located at the following web address: <http://extension.missouri.edu/main/DisplayCategory.aspx?C=74>, items WQ422 through WQ449.

With prior approval from the department, permittees are authorized to land apply biosolids, or utilize other methods of sludge disposal contained in Standard Conditions Part III.

SET-BACKS

Set-backs are common elements of general permits, and are established to provide a margin of safety in order to protect the receiving stream from accidents, spills, unusual events, etc. They are also established to show what receiving streams the permit writer considered in drafting the permit. For this general permit, the setbacks are for the wastewater irrigation or subsurface dispersal area, and are designed to provide a margin of safety from sensitive features or to protect public health. Setbacks that are required by regulation in 10 CSR 20-8.020(15)(B) may be waived or changed during the construction permitting process by the department.

STORM WATER POLLUTION PREVENTION PLAN (SWPPP):

In accordance with 40 CFR 122.44(k) *Best Management Practices (BMPs)* are implemented to control or abate the discharge of pollutants when: (1) Authorized under section 304(e) of the Clean Water Act (CWA) for the control of toxic pollutants and hazardous substances from ancillary industrial activities; (2) Authorized under section 402(p) of the CWA for the control of storm water discharges; (3) Numeric effluent limitations are infeasible; or (4) the practices are reasonably necessary to achieve effluent limitations and standards or to carry out the purposes and intent of the CWA.

In accordance with the EPA's *Developing Your Stormwater Pollution Prevention Plan. A Guide for Industrial Operators*, (Document number EPA 833-B-09-002) [published by the United States Environmental Protection Agency (USEPA) in February 2009], BMPs are measures or practices used to reduce the amount of pollution entering (regarding this operating permit) waters of the state. BMPs may take the form of a process, activity, or physical structure.

Additionally in accordance with the Storm Water Management, a SWPPP is a series of steps and activities to (1) identify sources of pollution or contamination, and (2) select and carry out actions which prevent or control the pollution of storm water discharges.

Not Applicable: At this time, the permittee is not required to develop and implement a SWPPP. There are no stormwater concerns associated with the facilities authorized by this permit.

VARIANCE:

As per the Missouri Clean Water Law §644.061.4, variances shall be granted for such period of time and under such terms and conditions as shall be specified by the commission in its order. The variance may be extended by affirmative action of the commission. In no event shall the variance be granted for a period of time greater than is reasonably necessary for complying with the Missouri Clean Water Law §§644.006 to 644.141 or any standard, rule or regulation promulgated pursuant to Missouri Clean Water Law §§644.006 to 644.141.

Not Applicable: This operating permit is not drafted under premises of a petition for variance.

WASTELOAD ALLOCATIONS (WLA) FOR LIMITS:

As per 10 CSR 20-2.010(78), the amount of pollutant each discharger is allowed by the department to release into a given stream after the department has determined total amount of pollutant that may be discharged into that stream without endangering its water quality.

Not Applicable: Wasteload allocations were not calculated.

WATER QUALITY STANDARDS:

Per 10 CSR 20-7.031(3), General Criteria shall be applicable to all waters of the state at all times including mixing zones. Additionally, 40 CFR 122.44(d)(1) directs the department to establish in each NPDES permit conditions to achieve water quality established under Section 303 of the Clean Water Act, including state narrative criteria for water quality.

WHOLE EFFLUENT TOXICITY (WET) TEST:

A WET test is a quantifiable method of determining if a discharge from a facility may be causing toxicity to aquatic life by itself, in combination with or through synergistic responses when mixed with receiving stream water.

Not Applicable: At this time, the permittee is not required to conduct WET test for this facility.

40 CFR 122.41(M) -- BYPASSES:

The federal Clean Water Act (CWA), Section 402 prohibits wastewater dischargers from "bypassing" untreated or partially treated sewage (wastewater) beyond the headworks. A bypass is defined as an intentional diversion of waste streams from any portion of a treatment facility [40 CFR 122.41(m)(1)(i)]. Additionally, Missouri regulation 10 CSR 20-2.010(11) defines a bypass as the diversion of wastewater from any portion of wastewater treatment facility or sewer system to waters of the state. Only under exceptional and specified limitations do the federal regulations allow for a facility to bypass some or all of the flow from its treatment process. Bypasses are prohibited by the CWA unless a permittee can meet all of the criteria listed in 40 CFR 122.41(m)(4)(i)(A), (B), & (C). Any bypasses from this facility are subject to the reporting required in 40 CFR 122.41(j)(6) and per Missouri's Standard Conditions I, Section B, part 2. Additionally, Anticipated Bypasses include bypasses from peak flow basins or similar devices designed for peak wet weather flows.

Not Applicable: This facility does not anticipate bypassing. It is a violation of Missouri State Environmental Laws and Regulations to allow untreated wastewater to discharge to waters of the state

OPERATOR CERTIFICATION REQUIREMENTS

Per 10 CSR 9.020, requirements for operation by certified personnel shall apply to all wastewater treatment systems serving population equivalents greater than two hundred (200) or with fifty (50) or more service connections and owned or operated by private sewer companies regulated by the Public Service Commission. Minimum certification requirements can be found at 10 CSR 9.020.

Per 10 CSR 20-6.010(8), facilities shall operate and maintain facilities to comply with the Missouri Clean Water Law and applicable permit conditions and regulations. Operators or supervisors of operations at regulated wastewater treatment facilities shall be certified in accordance with 10 CSR 20-9.020(2) and any other applicable state law or regulation.

Applicable: Facilities regulated by the Public Service Commission shall comply with requirements for a certified operator as provided in 10 CSR 9.020.

Not Applicable: All other facilities not regulated by the Public Service Commission are not required to have a certified operator.

303(d) LIST & TOTAL MAXIMUM DAILY LOAD (TMDL):

Section 303(d) of the federal Clean Water Act requires that each state identify waters that are not meeting water quality standards and for which adequate water pollution controls have not been required. Water quality standards protect such beneficial uses of water as whole body contact (such as swimming), maintaining fish and other aquatic life, and providing drinking water for people, livestock and wildlife. The 303(d) list helps state and federal agencies keep track of waters that are impaired but not addressed by normal water pollution control programs.

A TMDL is a calculation of the maximum amount of a given pollutant that a body of water can absorb before its water quality is affected. If a water body is determined to be impaired as listed on the 303(d) list, then a watershed management plan will be developed that shall include the TMDL calculation. Facilities with a wasteload allocation in a TMDL are required to obtain a site-specific permit.

Not Applicable: This is a no-discharge permit.

Part IV – Monitoring and Reporting

Monitoring is included to demonstrate the proper operation of the facility. Low-rate wastewater irrigation or subsurface dispersal does not have the potential to cause violations of water quality standards in surface or groundwater. However, daily visual inspection while in operation is required to assure that there are no malfunctions that would cause wastewater to be discharged to waters of the state.

OPERATIONAL MONITORING

Per 10 CSR 9.010, operational monitoring requirements shall apply to all wastewater treatment systems owned or operated by private sewer companies regulated by the Public Service Commission, servicing population equivalents greater than two hundred (200) or with twenty-five (25) or more service connections. Minimum monitoring requirements can be found at 10 CSR 9.010.

WASTEWATER IRRIGATION

Operational monitoring is necessary to demonstrate compliance with permit requirements.

Application Rate: Per 10 CSR 20-8.020(15)(F)6., hourly application rates shall not exceed one half (1/2) inch per hour. Surface application rates shall not exceed 1.0 inch per day, 3.0 inches per week, or 24 inches per year

Application Area: Monitoring requirement only. Area in acres is included to determine if proper irrigation is occurring on irrigation fields.

Volume Irrigated: Monitoring requirement only. The number of gallons of wastewater irrigated is included to determine if proper irrigation is occurring on irrigated fields. Wastewater shall be irrigated during suitable conditions so that there is no discharge from the storage basin, holding tanks, or irrigation site. The permittee is expected to take all necessary steps to ensure wastewater is applied in accordance with the requirements of this permit.

Irrigation Period: Monitoring requirement only. Monitoring of the irrigation period is included to determine if proper irrigation is occurring on the irrigation fields.

STORAGE BASINS

Freeboard is measured as a margin of safety expressed in number of feet the wastewater surface is below the emergency spillway. A proper amount of freeboard may compensate for unanticipated factors that would otherwise lead to an emergency bypass.

Precipitation monitoring is required to ensure appropriate irrigation is conducted to account for accumulated water in the storage basin.

Sampling Type Justification:

Due to the discharge being from irrigation from a storage basin, a grab sample is a representative and appropriate sample type. Variation in nutrient concentration is not expected over a 24 hour period. Sampling type has been determined to be appropriate so it has been retained from the previous state operating permit.

GENERAL CRITERIA CONSIDERATIONS:

In accordance with 40 CFR 122.44(d)(1), effluent limitations shall be placed into the permit for those pollutants which have been determined to cause, have the reasonable potential to cause, or contribute to an excursion above any State water quality standard, including State narrative criteria for water quality. The rule further states that pollutants which have been determined to cause, have the reasonable potential to cause, or contribute to an excursion above a narrative criterion within an applicable State water quality standard, the permit shall contain a numeric effluent limitation to protect that narrative criterion. In order to comply with this regulation, the permit writer will complete reasonable potential determinations on whether the discharge will violate any of the general criteria listed in 10 CSR 20-7.031(4). These specific requirements are listed below followed by derivation and discussion (the lettering matches that of the rule itself, under 10 CSR 20-7.031(4)). It should also be noted that Section 644.076.1, RSMo as well as Section D – Administrative Requirements of Standard Conditions Part I of this permit states that it shall be unlawful for any person to cause or permit any discharge of water contaminants from any water contaminant or point source located in Missouri that is in violation of sections 644.006 to 644.141 of the Missouri Clean Water Law or any standard, rule or regulation promulgated by the commission.

- (a) Waters shall be free from substances in sufficient amounts to cause the formation of putrescent, unsightly or harmful bottom deposits or prevent full maintenance of beneficial uses. This facility utilizes irrigation of domestic wastewater to the land surface and therefore does not discharge. No evidence of an excursion of this criterion has been observed by the department in the past and the facility has not disclosed any other information their permit application which has the potential to cause or contribute to an excursion of this narrative criterion. Additionally, there had been no indication to the department that the stream has had issued maintaining beneficial uses as a result of the wastewater irrigation. Therefore, based on the information reviewed during the drafting of this permit, and the fact that the facility does not discharge, no reasonable potential to cause or contribute to an excursion of this criterion exists.
- (b) Waters shall be free from oil, scum and floating debris in sufficient amounts to be unsightly or prevent full maintenance of beneficial uses. Please see (a) above as justification is the same.
- (c) Waters shall be free from substances in sufficient amounts to cause unsightly color or turbidity, offensive odor or prevent full maintenance of beneficial uses. Please see (a) above as justification is the same.
- (d) Waters shall be free from substances or conditions in sufficient amounts to result in toxicity to human, animal or aquatic life. Please see (a) above as justification is the same.
- (e) There shall be no significant human health hazard from incidental contact with the water. Please see (a) above as justification is the same.

- (f) There shall be no acute toxicity to livestock or wildlife watering. Please see (a) above as justification is the same.
- (g) Waters shall be free from physical, chemical or hydrologic changes that would impair the natural biological community. Please see (a) above as justification is the same.
- (h) Waters shall be free from used tires, car bodies, appliances, demolition debris, used vehicles or equipment and solid waste as defined in Missouri's Solid Waste Law, section 260.200, RSMo, except as the use of such materials is specifically permitted pursuant to section 260.200-260.247. The discharge from this facility is made up of treated domestic wastewater. No evidence of an excursion of this criterion has been observed by the Department in the past and the facility has not disclosed any other information related to the characteristics of the discharge on their permit application which has the potential to cause or contribute to an excursion of this narrative criterion. Additionally, any solid wastes received or produced at this facility are wholly contained in appropriate storage facilities, are not discharged, and are disposed of offsite. This discharge is subject to Standard Conditions Part III, which contains requirements for the management and disposal of sludge to prevent its discharge. Therefore, this discharge does not have reasonable potential to cause or contribute to an excursion of this criterion.

EMERGENCY BYPASS

Emergency bypass monitoring is required daily when a facility has a bypass for the amount of flow, Biochemical Oxygen Demands, Total Suspended Solids, Total Ammonia Nitrogen; *E. coli* and pH. These parameters shall be monitored daily for five consecutive days beginning within six (6) hours of discovery. Sampling shall then occur once per week until the discharge ceases. All samples shall be collected as grab samples. pH samples cannot be preserved and must be sampled in the field. Monitoring shall be reported using the eDMR system where applicable and results are due on the 28th day of the month after the cessation of the discharge.

Any unanticipated bypass may endanger public health or the environment. If a bypass occurs, the permittee shall report to the appropriate department regional office in accordance with 40 CFR 122.41 (m)(3) and Standard Conditions Part I as soon as possible but always within 24 hours of the bypass commencement. An emergency bypass may occur only when ambient rainfall exceeds the 10-year, 365-day rainfall event or the 25-year 24-hour rainfall event according to National Weather Service data. Design Storm Maps and Tables can be found at http://ag3.agebb.missouri.edu/design_storm/ or http://hdsc.nws.noaa.gov/hdsc/pfds/pfds_map_cont.html?bkmrk=mo. Facilities are expected to make all reasonable attempts to return the water level in the basin to below the maximum capacity to halt or avoid a bypass.

SUBSURFACE DISPERSAL

No monitoring is required for Subsurface Dispersal Systems due to the nature of the system operation. Therefore, if the only part of this permit that applies to a facility is the subsurface dispersion, the facility is not required to register for eDMR

PUMP AND HAUL

For pump and haul facilities operational monitoring is required for volume pumped and amount of freeboard available in the holding tank(s). Wastewater hauling records may be requested upon inspection. This permit requires all holding tanks to have proper alarms, telemetry and freeboard monitoring to prevent overflow of holding tanks.

Part V – Administrative Requirements

On the basis of preliminary staff review and the application of applicable standards and regulations, the department, as administrative agent for the Missouri Clean Water Commission, proposes to issue a permit(s) subject to certain effluent limitations, schedules, and special conditions contained herein and within the operating permit. The proposed determinations are tentative pending public comment.

PUBLIC NOTICE:

The department shall give public notice that a draft permit has been prepared and its issuance is pending. Additionally, public notice will be issued if a public hearing is to be held because of a significant degree of interest in and water quality concerns related to a draft permit. No public notice is required when a request for a permit modification or termination is denied; however, the requester and permittee must be notified of the denial in writing.

The department must issue public notice of a pending operating permit or of a new or reissued statewide general permit. The public comment period is the length of time not less than 30 days following the date of the public notice which interested persons may submit written comments about the proposed permit.

For persons wanting to submit comments regarding this proposed operating permit, please refer to the Public Notice page located at the front of this draft operating permit. The Public Notice page gives direction on how and where to submit appropriate comments.

-The Public Notice period for this Master General Permit is anticipated to take place May 12, 2017, through June 12, 2017. No comments were received.

DATE OF FACT SHEET: MAY 10, 2017

COMPLETED BY:

**SUSAN J HIGGINS
ENVIRONMENTAL SPECIALIST III
OPERATING PERMITS SECTION
WATER PROTECTION PROGRAM
573-526-1002
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BEFORE THE MISSOURI DEPARTMENT OF NATURAL RESOURCES

In the Matter of:)
)
 Confluence Rivers Utility)
 Operating Company, Inc.) **Order No. 2019-WPCB-1582**
)
 Proceeding under the)
 Missouri Clean Water Law and)
 Sections 640.100 to 640.140, RSMo)

ABATEMENT ORDER ON CONSENT

NOTICE TO RECIPIENTS OF ABATEMENT ORDERS ON CONSENT

The issuing of this Abatement Order on Consent (AOC) No. 2019-WPCB-1582, by the Missouri Department of Natural Resources (Department), is a formal administrative action by the State of Missouri and is being issued because the Department anticipates that Confluence Rivers Utility Operating Company, Inc. (Respondent) will be in violation of the Missouri Clean Water Law (MCWL) and the Missouri Safe Drinking Water Law and Regulations (MSDWL&R) upon the Respondent's acquisition of the wastewater treatment facilities (WWTFs) and public water systems (PWSs) known as or currently serving Auburn Lake, Calvey Brook Estates, Castlereagh Estates Subdivision, Gladlo Water and Sewer, Lake Virginia Subdivision East, Villa Ridge Estates, The Willows Utility Company, Roy-L Utilities, Kuhle H2O, Evergreen Lakes, Eugene, and Port Perry Service Company. This AOC is issued under the authorities of Sections 644.056, and 644.079, 640.130.3, and 640.131, Revised Statutes of Missouri (RSMo). Failure to comply with this AOC is, by itself, a violation of Section 644.076.1, RSMo or Section 640.131, RSMo, which may trigger penalties and other forms of relief. Litigation may occur without further notice if there is not compliance with the requirements of this AOC. This AOC does not

SCHEDULE CWS 3

constitute a waiver or a modification of any requirements for the MCWL and its implementing regulations, or the MSDWL&R, all of which remain in full force and effect. Compliance with the terms of this AOC shall not relieve the Respondent of liability for, or preclude the Department from, initiating an administrative or judicial enforcement action to recover civil or administrative penalties for any future violations of the MCWL or MSDWL&R, or to seek injunctive relief, pursuant to Chapters 640 and 644, RSMo.

FINDINGS OF FACT

1. The Respondent received approval from the Public Service Commission to begin acquiring the WWTFs and PWSs on February 24, 2019.
2. The Respondent, originally formed on August 11, 2016, is a domestic, for-profit business in good standing with the Missouri Secretary of State, and anticipates purchasing the WWTFs and PWSs set forth below pending execution of this AOC.
3. The Auburn Lake WWTF consists of an extended aeration sludge plant along with chlorine disinfection followed by dechlorination. The WWTF has a design population equivalent of 900, and a design flow of 90,280 gallons per day (gpd), and is located in Lincoln County, Missouri. Effluent from the WWTF discharges to a tributary to Big Creek, subject to the conditions and requirements of Missouri State Operating Permit No. MO-0129356, which became effective on August 1, 2017, and expires on July 31, 2022.
4. The Calvey Brook Estates WWTF consists of a recirculating AdvanTex filter with no disinfection. The collection system consists of a low pressure collection system with homeowner-maintained septic tanks and pumps. The WWTF has a design population equivalent of 133, a design flow of 10,000 gpd, an actual flow of 1,900 gpd, and is located in Franklin County, Missouri. Effluent from the WWTF discharges to a tributary to Little Calvey Creek,

subject to the conditions and requirements of Missouri State Operating Permit No.

MO-0130095 (Calvey Brook Estates Permit), which was issued on July 10, 2018, and expires on June 30, 2023.

5. On September 25, 2017, Department staff inspected the Calvey Brook Estates WWTF and found the fencing inadequate to restrict entry to the facility by children, livestock, and unauthorized persons as well as to protect the facility from vandalism.

6. Discharge Monitoring Reports (DMRs) submitted by the previous owner of the Calvey Brook Estates WWTF indicate that effluent produced by the WWTF violated the permitted effluent limitations. See Exhibit A of this AOC for a list of effluent violations.

7. On February 19, 2019, the Department received an application for a construction permit for construction of improvements to achieve compliance with final permitted effluent limitations for the Calvey Brook Estates WWTF.

8. The Gladlo Water and Sewer WWTF consists of a three-cell lagoon with chlorine disinfection with a design population equivalent of 237, a design flow of 23,680 gpd, and is located in Phelps County, Missouri. Effluent from the WWTF discharges to a tributary to Little Prairie Community Lake, subject to the conditions and requirements of Missouri State Operating Permit No. MO-0084191 (Gladlo Permit), which was effective on January 1, 2016, and expires on December 31, 2020.

9. On September 26, 2013, staff conducted an inspection of the Gladlo Water and Sewer WWTF and found the facility out of compliance due to permitted effluent limitation violations, the security fence and gate not being adequately installed to restrict entrance to the facility by unauthorized personnel, and warning signs not visible from all directions.

10. DMRs submitted by the previous owner indicate that effluent produced by the Gladlo Water and Sewer WWTF violated the permitted effluent limitations. See Exhibit A of this AOC for a list of effluent violations.

11. On August 10, 2018, the Department issued Construction Permit No. CP0001981 for construction of improvements at the Gladlo Water and Sewer WWTF to achieve compliance with final permitted effluent limitations.

12. The Willows Utility Company WWTF consists of an extended air plant, with sand filters, chlorination, and dechlorination, a design population equivalent of 926, a design flow of 100,000 gpd, an actual flow of 52,000 gpd, and is located in Greene County, Missouri. Effluent from the WWTF discharges to a tributary to Pond Creek, subject to the conditions and requirements of Missouri State Operating Permit No. MO-0052281 (Willows Permit), which was effective on June 1, 2017, and expires on June 30, 2021.

13. DMRs submitted by the previous owner indicate that effluent produced by the Willows Utility Company WWTF violated the permitted effluent limitations. See Exhibit A of this AOC for a list of effluent violations.

14. The Castlereagh Estates Subdivision WWTF is an extended air plant with a design population equivalent of 277, a design flow of 27,700 gpd, an actual flow of 14,000 gpd, and is located in St. Louis County, Missouri. Effluent from the WWTF discharges to a tributary to Mill Creek, subject to the conditions and requirements of Missouri State Operating Permit No. MO-0084484 (Castlereagh Estates Subdivision Permit), which was effective on November 1, 2012, and expired on October 31, 2017. To date the Department has not received an application to renew the Castlereagh Estates Subdivision Permit.

15. On August 11 and 12, 2015, Department staff inspected the Castlereagh Estates Subdivision WWTF and found the facility out of compliance with permitted effluent limits. Department staff documented additional violations of the MCWL at Castlereagh Estates Subdivision, including failure to submit progress reports and make appropriate upgrades, failure to operate and maintain facilities to comply with the MCWL and applicable permit conditions, failure to submit annual permit fees, and failure to clearly mark the outfall.

16. DMRs submitted by the previous owner indicate that effluent produced by the Castlereagh Estates Subdivision WWTF violated the permitted effluent limitations. See Exhibit A of this AOC for a list of effluent violations.

17. On August 7, 2018, the Department issued Construction Permit No. CP0001974 for construction of improvements at the Castlereagh Estates Subdivision WWTF to achieve compliance with final permitted effluent limitations.

18. The Lake Virginia Subdivision East WWTF consists of a two-cell lagoon with a design population equivalent of 96, a design flow of 9,600 gpd, an actual flow of 1,150 gpd, and is located in Jefferson County, Missouri. Effluent from the WWTF discharges to a tributary to Joachim Creek, subject to the conditions and requirements of Missouri State Operating Permit No. MO-0101672, which was effective on June 1, 2018, and expires on September 30, 2021.

19. On March 8, 2017, Department staff inspected the Lake Virginia Subdivision East WWTF and observed that the WWTF did not have dechlorination equipment, failed to provide a lockable gate and adequate fence to restrict unauthorized access, and failed to maintain the inner berm slopes of the lagoon to be less than a three to one.

20. On January 17, 2019, the Department issued Construction Permit No. CP0002005 for construction of improvements at the Lake Virginia Subdivision East WWTF to achieve compliance with final permitted effluent limitations.

21. The Villa Ridge Estates WWTF consists of an extended air plant and chlorine disinfection with a design population equivalent of 666, a design flow of 66,600 gpd, an actual flow of 24,900 gpd, and is located in Franklin County, Missouri. Effluent from the WWTF discharges to a tributary to Pin Oak Creek, subject to the conditions and requirements of Missouri State Operating Permit No. MO-0038237 (Villa Ridge Estates Permit), which was effective on August 1, 2018, and expires on June 30, 2020.

22. On June 2 and 6, 2017, Department staff inspected the Villa Ridge Estates WWTF and found the facility out of compliance because they caused pollution to waters of the state, discharged water contaminants and wastewater sludge into waters of the state, operated a WWTF which discharged into waters of the state, and failed to meet design requirements for aerial stream crossings.

23. DMRs submitted by the previous owner indicate that effluent produced by the Villa Ridge Estates WWTF violated the permitted effluent limitations. See Exhibit A of this AOC for a list of effluent violations.

24. On December 21, 2018, the Department issued Construction Permit No. CP0001985 for construction of improvements at the Villa Ridge Estates WWTF to achieve compliance with final permitted effluent limitations.

25. The Roy-L Utilities WWTF consists of a single-cell lagoon with chlorination and dechlorination disinfection system on the outfall. The WWTF has a design population equivalent of 200, a design flow of 19,999 gpd, an actual flow of 3,300 gpd, and is located in Montgomery

County, Missouri. Effluent from the WWTF discharges to a tributary to Bear Creek, subject to the conditions and requirements of Missouri State Operating Permit No. MO-0087211 (Roy-L Permit), which was effective on August 1, 2016, and expires on June 30, 2019.

26. DMRs submitted by the previous owner indicate that effluent produced by the Roy-L Utilities WWTF violated the permitted effluent limitations. See Exhibit A of this AOC for a list of effluent violations.

27. On August 1, 2018, the Department issued Construction Permit No. CP0001977 for construction of improvements at the Roy-L Utilities WWTF to achieve compliance with final permitted effluent limitations.

28. The Port Perry Service Company WWTF consists of a four-cell, no-discharge lagoon that uses land application with a design population equivalent of 740, a design flow of 740,000 gpd, an actual flow of 10,000 gpd, and is located in Perry County, Missouri. The lagoon contains an emergency discharge outfall that discharges to a tributary to Nations Creek, subject to the conditions and requirements of Missouri State Operating Permit No. MO-G823126, which was issued on November 1, 2018, and expires on August 24, 2022.

29. The PWS known as Kuhle H2O, identification number MO3036153, is located in Boone County. The system serves groundwater year-round to an estimated 450 customers through 100 connections.

30. The PWS known as Evergreen Lakes, identification number MO6036134, is located in Franklin County. The system serves groundwater year-round to an estimated 150 customers through 53 connections.

31. The PWS known as The Willows Utility Company, identification number MO5048099, is located in Greene County. The system serves groundwater year-round to an estimated 275 customers through 210 connections.

32. The PWS known as Gladlo, identification number MO3036151, is located in Phelps County. The system serves groundwater year-round to an estimated 150 customers through 71 connections.

33. The PWS known as Auburn Lake, identification number MO6031409, is located in Lincoln County. The system serves groundwater year-round to an estimated 0 customers through 1 connection. The Auburn Lake PWS is not currently activated as a PWS.

34. The PWS known as Calvey Brook Estates, identification number MO6031385, is located in Franklin County. The system serves groundwater year-round to an estimated 25 customers through 1 connection. The Calvey Brook Estates PWS is not currently activated as a PWS.

35. The PWS known as Eugene, identification number MO3010257, is located in Cole County. The system serves groundwater year-round to an estimated 220 customers through 45 connections. There was one routine monitoring violation in March 2018 and returned to compliance in April 2018.

36. The PWS known as Roy-L Utilities, identification number MO6251710, is located in Montgomery County. The system serves groundwater year-round to an estimated 30 customers through 1 connection. There was one Boil Water Order issued September 25, 2018, lifted September 27, 2018, and returned to compliance.

37. The PWS known as Port Perry Service Company, identification number MO4036132, is located in Perry County. The system serves groundwater year-round to an estimated 793 customers through 356 connections.

38. Big Creek, Little Calvey Creek, Mill Creek, Little Prairie Community Lake, Joachim Creek, Pin Oak Creek, Pond Creek, Bear Creek, Nations Creek, and their tributaries are waters of the state as the term is defined by Section 644.016(27), RSMo.

39. Domestic wastewater is a water contaminant as the term is defined by Section 644.016(24), RSMo.

40. Sections 644.051.2 and 644.076.1, RSMo, and 10 CSR 20-6.010(1)(A) and (5)(A), make it unlawful to operate, use, construct, or maintain a water contaminant source that discharges to a waters of the state without an operating permit.

41. Sections 644.051.1(3) and 644.076.1, RSMo, make it unlawful to violate permitted effluent limitations as contained in Part "A" of the Permit, or any other condition listed in the Permit.

42. On February 14, 2019, the Public Service Commission issued Order No. WM-2018-0116, Approving Stipulation And Agreement And Granting Certificates Of Convenience And Necessity with an effective date of February 24, 2019.

STATEMENT OF ANTICIPATED VIOLATIONS

43. The Department and the Respondent acknowledge that the Respondent is acquiring nine WWTFs with histories of MCWL violations or that require improvements, and nine PWSs with histories of MSDWL&R violations or that require improvements. The Department and the Respondent anticipate that after the Respondent's acquisition of these WWTFs and PWSs, the WWTFs and PWSs will continue to accrue violations of the MCWL and

MSDWL&R of the same kind as the violations listed below, or violations that are a consequence of the existing conditions of the WWTFs and PWSs, until the Respondent completes upgrades to the WWTFs and PWSs as set forth in the compliance schedule and plan described in Paragraphs 51 through 72 below. Anticipated violations of the MCWL and its implementing regulations are as follows:

44. Failed to comply with the effluent limits contained in Table A of the Villa Ridge Estates Permit, Willows Permit, Gladlo Permit, Castlereagh Estates Subdivision Permit, Roy-L Permit, and Calvey Brook Estates Permit, in violation of Sections 644.051.1(3) and 644.076.1, RSMo;

45. Caused pollution of tributaries to Big Creek, Little Calvey Creek, Mill Creek, Little Prairie Community Lake, Joachim Creek, Pin Oak Creek, Pond Creek, Nations Creek, and Bear Creek or other waters of the state, or placed or caused or permitted to be placed water contaminants in a location where it is reasonably certain to cause pollution of waters of the state, in violation of Sections 644.051.1(1) and 644.076.1, RSMo; and

46. Since November 1, 2017, operated, used or maintained the wastewater contaminant source at Castlereagh Estates Subdivision without a Missouri State Operating Permit, in violations of Sections 644.051.2 and 644.076.1, RSMo and 10 CSR 20-6010(1)(A).

AGREEMENT

47. The Department and the Respondent desire to amicably resolve all disputes or claims that could arise against the Respondent after acquiring the WWTFs and PWSs for any and all past violations of the MCWL and MSDWL&R, including but not limited to penalties proposed in or arising from violations of the MCWL, its implementing regulations, and the

MSDWL&R, as well as future anticipated violations that may occur during the time period from Respondent's acquisition of the WWTF and PWS set forth above until this AOC expires.

48. The provisions of this AOC shall apply to and be binding upon the parties executing this AOC, their agents, subsidiaries, affiliates, and lessees, including officers, agents, servants, corporations and any persons acting under, through, or for the parties agreeing hereto. Any changes in ownership or corporate status, including but not limited to, any transfer of assets, or real estate, or personal property, shall not affect the responsibilities of the Respondent under this AOC.

49. The Department and the Respondent agree that by entering into this AOC, the Respondent is not admitting liability. This AOC shall not be deemed to be an admission of liability for any purpose whatsoever.

50. Immediately upon assuming responsibility to operate the WWTFs and PWSs, the Respondent agrees to make all efforts in good faith to operate the WWTFs and PWSs in compliance with applicable permits, the MCWL, its implementing regulations, and the MSDWL&R.

51. Within 15 days of the purchase date for each WWTF or PWS, the Respondent is ordered and agrees to submit an application to transfer all effective permits to the Respondent.

52. Within 15 days of the purchase date for each WWTF or PWS that has an active construction permit, the Respondent is ordered and agrees to submit an Application For Transfer Of Construction Permit (Department Form No.780-2156).

53. Within 15 days of the purchase date of the Castlereagh Estates Subdivision WWTF, the Respondent is ordered and agrees to submit to the Department an application for renewal of the Castlereagh Estates Subdivision Permit.

54. Within 30 days of acquisition for each PWS, Respondent is ordered and agrees to submit a completed PTD transfer application (Department Form No. 780-2139).

55. Within 120 days after acquisition of the Roy- L Utilities WWTF, the Respondent is ordered and agrees to complete construction of improvements, according to Department-approved plans and specifications that will allow effluent produced by the WWTF to comply with final permitted effluent limitations.

56. Within 120 days after acquisition of Roy-L Utilities PWS, the Respondent is ordered and agrees to install a booster pump and a chlorine analyzer.

57. Within 120 days after acquisition of Villa Ridge Estates WWTF, the Respondent is ordered and agrees to complete construction of improvements, according to Department-approved plans and specifications that will allow effluent produced by the WWTF to comply with final permitted effluent limitations.

58. Within 120 days after acquisition of Gladlo WWTF, the Respondent is ordered and agrees to complete construction of improvements, according to Department-approved plans and specifications that will allow effluent produced by the WWTF to comply with final permitted effluent limitations. Also within 120 days after acquisition of Gladlo PWS, the Respondent is ordered and agrees to complete necessary repairs and install a booster system to provide the system pressure.

59. Within 120 days after acquisition of Willows WWTF, the Respondent is ordered and agrees to complete construction of improvements, according to Department-approved plans and specifications that will allow effluent produced by the WWTF to comply with final permitted effluent limitations. Also within 120 days after acquisition of Willows PWS, the Respondent is ordered and agrees to maintain a minimum system pressure of 20 psi in

accordance with 10 CSR 60-4.080(8). The Respondent shall notify the Department of system pressures below 20 psi within 48 hours of each occurrence in accordance with 10 CSR 60-7.010(2). Also within 120 days after acquisition of Willows PWS, the Respondent is ordered and agrees to complete necessary repairs and install a chlorine analyzer.

60. Within 120 days after acquisition of Lake Virginia Subdivision East WWTF, the Respondent is ordered and agrees to complete construction of improvements, according to Department-approved plans and specifications that will allow effluent produced by the WWTF to comply with final permitted effluent limitations.

61. Within 120 days after issuance of a construction permit for Calvey Brook Estates WWTF, the Respondent is ordered and agrees to complete construction of improvements, according to Department-approved plans and specifications that will allow effluent produced by the WWTF to comply with final permitted effluent limitations.

62. Within 120 days after acquisition of Calvey Brook Estates PWS, the Respondent is ordered and agrees to replace the well house piping, install a remote monitoring system, and install a hand/on/off auto switch for the well head.

63. Within 120 days after acquisition of Castlereagh Estates Subdivision WWTF, the Respondent is ordered and agrees to complete construction of improvements, according to Department-approved plans and specifications that will allow effluent produced by the WWTF to comply with final permitted effluent limitations.

64. Within 120 days after acquisition of Kuhle H2O PWS, the Respondent is ordered and agrees to complete necessary repairs, reconstruct the well house, install a chlorine analyzer, and improve security measures around the well house.

65. Within 120 days after acquisition of Evergreen Lakes PWS, the Respondent is ordered and agrees to complete necessary repairs and install a chlorine analyzer.
66. Within 120 days after acquisition of Eugene PWS, the Respondent is ordered and agrees to complete necessary repairs to the storage tank and install well house piping.
67. Within 120 days after acquisition of Auburn Lake PWS, the Respondent is ordered and agrees to complete technical, managerial, and financial documentation and submit a complete permit to dispense application.
68. Within 120 days after acquisition of Port Perry WWTF, the Respondent is ordered and agrees to complete construction of improvements, according to Department-approved plans and specifications that will allow effluent produced by the WWTF to comply with final permitted effluent limitations.
69. Within 120 days after acquisition of Port Perry PWS, the Respondent is ordered and agrees to complete necessary repairs and install a chlorine analyzer.
70. Within 60 days of completion of construction for each of the WWTFs requiring construction, the Respondent is ordered and agrees to submit a Statement of Work Completed.
71. Within 60 days of completion of repairs and installation for each of the PWSs requiring repairs, the Respondent is ordered and agrees to submit written notification of completion to the Department.
72. This AOC shall terminate 90 days after upgrades to the WWTFs and PWSs are completed, or on March 30, 2020, whichever date occurs first.
73. The Department agrees not to bring, or cause to be brought, any civil action against the Respondent for penalties arising out of the above-referenced violations of the

MCWL, its implementing regulations, and the MSDWL&R, provided that the Respondent complies in good faith with the Department-approved compliance schedule and plan.

74. Upon completion of the compliance schedule and plan, the Respondent is ordered and agrees to obtain all necessary permits and approvals.

SUBMISSIONS

75. All other documentation submitted to the Department for compliance with this AOC shall be submitted within the timeframes specified to:

Ms. Taylor Markway
Department of Natural Resources
Water Protection Program
Compliance and Enforcement Section
P.O. Box 176
Jefferson City, MO 65102-0176

OTHER PROVISIONS

76. Immediately upon becoming aware that a deadline or milestone as set forth in this AOC will not be completed by the required deadline, the Respondent shall notify the Department by telephone or electronic mail: i) identifying the deadline that will not be completed; ii) identifying the reason for failing to meet the deadline; and iii) proposing an extension to the deadline. Within five days of notifying the Department, the Respondent shall submit to the Department, for review and approval, a written request containing the same basic provisions of i, ii, and iii listed above. The Department may grant an extension if it deems appropriate. Failure to submit a written notice to the Department may constitute a waiver of the Respondent's right to request an extension and may be grounds for the Department to deny the Respondent an extension.

77. Compliance with this AOC resolves only the specific anticipated violations described herein, and this AOC shall not be construed as a waiver or modification or any other requirements of the MCWL, its implementing regulations, the MSDWL&R, or any other source of law. Nor does this AOC resolve any future violations of this AOC or any law or regulation after this AOC expires. Consistent with 10 CSR 20-3.010(5), this AOC shall not be construed as satisfying any claim by the state or federal government for natural resource damages.

78. Nothing in this AOC forgives the Respondent from future non-compliance with the laws of the State of Missouri, nor requires the Department or State of Missouri to forego pursuing by any legal means for any non-compliance with the laws of the State of Missouri. The terms stated herein constitute the entire and exclusive agreement of the parties. There are no other obligations of the parties, be they expressed or implied, oral or written, except those expressly set forth herein. The terms of this AOC supersede all previous memoranda of understanding, notes, conversations, and agreements, express or implied. This AOC may not be modified orally.

79. By signing this AOC, all signatories assert that they have read and understood the terms of this AOC, and that they have the authority to sign this AOC on behalf of their respective party.

80. The effective date of the AOC shall be the date the Department signs the AOC. The Department shall send a fully executed copy of this AOC to the Respondent for their records.

NOTICE OF APPEAL RIGHTS

81. By signing this AOC, the Respondent consents to its terms and waives any right to appeal or otherwise challenge the terms and conditions of this AOC, pursuant to Sections

621.250, 640.010, 640.013, 640.130, 640.131, 644.056.3, 644.079.2, 644.145, and Chapter 536, RSMo, and 10 CSR 20-1.020, 10 CSR 20-3.010, 10 CSR 20-6.020(5), 10 CSR 60-6.070(5), the Missouri Constitution, and any other source of law.

SIGNATORY AUTHORITY

Agreed to and Ordered on this 1st day of April, 2019



Mr. Josiah Cox, President
Confluence Rivers Utility Operating Company, Inc.

Agreed to and Ordered on this 2nd day of April, 2019



DEPARTMENT OF NATURAL RESOURCES
Chris Wieberg, Director
Water Protection Program

- c: General Counsel's Office
- Accounting Program
- Ms. Cindy Davies, Director, Southwest Regional Office
- Mr. Arthur Goodin, Director, Southeast Regional Office
- Ms. Dorothy Franklin, Director, St. Louis Regional Office
- Ms. Irene Crawford, Director, Northeast Regional Office
- Mr. Lance Dorsey, Compliance and Enforcement Section, Water Protection Program

Exhibit A: Limit value exceedances from Discharge Monitoring Data submitted by the WWTFs

Villa Ridge Estates WWTF				
Date	Parameter	Weekly Avg.	Monthly Avg.	Reported value
9/30/18	BOD	45	30	70
9/30/18	Total Suspended Solids	45	30	31
9/30/18	E.coli	1030 daily max	206	79,200
4/30/18	E. coli	1030 daily max	206	2,420
12/31/17	Total Suspended Solids	45	30	100
12/31/17	BOD	45	30	120
10/31/17	E. coli	1030 daily max	206	61,300
9/30/17	E. coli	1030 daily max	206	92,000
8/31/17	E. coli	1030 daily max	206	240,000
7/31/17	Total Suspended Solids	45	30	32
6/30/17	E. coli	1030 daily max	206	24,000

Willows Utility Company WWTF				
Date	Parameter	Weekly Avg.	Monthly Avg.	Reported value
8/31/18	E. coli	1030 daily max	206	1600
7/31/18	Nitrogen as Ammonia	5.4 daily max	1.3	1.63
4/30/18	E. coli	1030 daily max	206	(2,420 daily max) (124 monthly)
4/30/17	Nitrogen as Ammonia	5.9 daily max	1.1	3

Gladlo Water and Sewer WWTF				
Date	Parameter	Weekly Avg.	Monthly Avg.	Reported value
12/31/18	BOD	65 daily max	45	48
9/30/18	E. coli	1030 daily max	206	(2420 daily max) (450 monthly)
9/30/17	Chlorine, total residual	129.99 daily max	129.99	(2100 daily max) (240 monthly)
6/30/17	Chlorine, total residual	129.99 daily max	129.99	(2100 daily max) (300 monthly)

Castlereagh Estates Subdivision				
Date	Parameter	Weekly Avg.	Monthly Avg.	Reported value
8/31/18	E. coli	1030 daily max	206	24,200
7/31/18	E. coli	1030 daily max	206	546
6/30/18	E.coli	1030 daily max	206	5,490
4/30/18	E. coli	1030 daily max	206	15,600
10/31/17	E. coli	1030 daily max	206	41,100
9/30/17	E. coli	1030 daily max	206	51,700
9/30/17	BOD	45	30	47
8/31/17	E. coli	1030 daily max	206	81,600
7/31/17	E. coli	1030 daily max	206	141,000
6/30/17	E. coli	1030 daily max	206	6,700
5/31/17	E. coli	1030 daily max	206	240

Roy-L Utilities WWTF				
Date	Parameter	Weekly Avg.	Monthly Avg.	Reported value
9/30/18	E. coli	1030 daily max	206	11,200
12/31/17	E. coli	1030 daily max	206	10

Calvey Brook Estates WWTF				
Date	Parameter	Weekly Avg.	Monthly Avg.	Reported value
6/30/18	Nitrogen as Ammonia	3.7 daily max	1.4	4.3
6/30/18	Total Suspended Solids	15	10	19
3/31/18	Nitrogen as Ammonia	7.5 daily max	2.8	5