

STATE OF MISSOURI
DEPARTMENT OF NATURAL RESOURCES

MISSOURI CLEAN WATER COMMISSION



CONSTRUCTION PERMIT

The Missouri Department of Natural Resources hereby issues a permit to:

Central Realty Investment, LLC
225 S. Meramec, Suite 409
St. Louis, MO 63105

for the construction of (described facilities):

See attached.

Permit Conditions:

See attached.

Construction of such proposed facilities shall be in accordance with the provisions of the Missouri Clean Water Law, Chapter 644, RSMo, and regulation promulgated thereunder, or this permit may be revoked by the Department of Natural Resources (Department).

As the Department does not examine structural features of design or the efficiency of mechanical equipment, the issuance of this permit does not include approval of these features.

A representative of the Department may inspect the work covered by this permit during construction. Issuance of a permit to operate by the Department will be contingent on the work substantially adhering to the approved plans and specifications.

This permit applies only to the construction of water pollution control components; it does not apply to other environmentally regulated areas.

January 22, 2015
Effective Date


Sara Parker Pauley, Director, Department of Natural Resources

January 21, 2017
Expiration Date


John Madras, Director, Water Protection Program

CONSTRUCTION PERMIT

I. CONSTRUCTION DESCRIPTION

Modification to an existing wastewater treatment facility, by the addition of a tablet dechlorinator and all the necessary appurtenances to make the facilities complete and usable to treat the waste from a population equivalent of 249 with an average daily discharge of 18,675 gallons. This facility discharges to a Tributary to Buck Creek in Jefferson County, Missouri.

II. FINDING OF AFFORDABILITY

The Finding of Affordability is not applicable. The permittee is not a combined or separate sanitary sewer system or a publicly owned treatment works.

III. CONSTRUCTION PERMIT CONDITIONS

The permittee is authorized to construct subject to the following conditions:

1. This construction permit does not authorize discharge.
2. All construction shall be in accordance with the plans and specifications submitted by Rhutasel and Associates on December 20, 2014.
3. The Department must be contacted in writing prior to making any changes to the approved plans and specifications that would directly or indirectly have an impact on the capacity, flow, system layout, or reliability of the proposed wastewater treatment facilities or any design parameter that is addressed by 10 CSR 20-8, in accordance with 10 CSR 20-8.110(8).
4. State and Federal Law does not permit bypassing of raw wastewater, therefore steps must be taken to ensure that raw wastewater does not discharge during construction. If a sanitary sewer overflow or bypass occurs, report the appropriate information to the Department's St. Louis Regional Office per 10 CSR 20-7.015(9)(E)2.
5. This Construction Permit is invalid for projects required to comply with the requirements contained in 10 CSR 20-4, "Grants and Loans"
6. Protection of drinking water supplies shall be in accordance with 10 CSR 20-8.120(10). "There shall be no physical connections between a public or private potable water supply system and a sewer, or appurtenance thereto which would permit the passage of any wastewater or polluted water into the potable supply. No water pipe shall pass through or come in contact with any part of a sewer manhole."

7. Sewers in relation to water works structures shall meet the requirements of 10 CSR 23-3.010 with respect to minimum distances from public water supply wells or other water supply sources and structures.
 - A. Sewer mains shall be laid at least ten feet horizontally from any existing or proposed water main. The distances shall be measured edge-to-edge. In cases where it is not practical to maintain a ten foot separation, the Department may allow a deviation on a case-by-case basis, if supported by data from the design engineer. Such a deviation may allow installation of the sewer closer to a water main, provided that the water main is in a separate trench or on an undisturbed earth shelf located on either side of the sewer and at an elevation so the bottom of the water main is at least 18 inches above the top of the sewer. If it is impossible to obtain proper horizontal and vertical separation as described above for sewers, the sewer must be constructed of slip-on or mechanical joint pipe or continuously encased and be pressure tested to 150 pounds per square inch to assure water tightness.
 - B. Manholes should be located at least ten feet horizontally from any existing or proposed water main.
 - C. Sewers crossing water mains shall be laid to provide a minimum vertical distance of 18 inches between the outside of the water main and the outside of the sewer. This shall be the case where the water main is either above or below the sewer. The crossing shall be arranged so that the sewer joints will be equidistant and as far as possible from the water main joints. Where a water main crosses under a sewer, adequate structural support shall be provided for the sewer to maintain line and grade. When it is impossible to obtain proper vertical separation as stipulated above, one of the following methods must be specified:
 - a. The sewer shall be designed and constructed equal to the water pipe and shall be pressure tested to assure water tightness prior to backfilling; or
 - b. Either the water main or sewer line may be continuously encased or enclosed in a watertight carrier pipe which extends ten feet on both sides of the crossing, measured perpendicular to the water main. The carrier pipe shall be of materials approved by the Department for use in water main construction.
8. In addition to the requirements for a construction permit, 10 CSR 20-6.200 requires land disturbance activities of one acre or more to obtain a Missouri State Operating Permit to discharge stormwater. The permit requires Best Management Practices sufficient to control runoff and sedimentation to protect waters of the state. Land disturbance permits will only be obtained by means of the Department's ePermitting system available online at www.dnr.mo.gov/env/wpp/epermit/help.htm. See www.dnr.mo.gov/env/wpp/stormwater/sw-land-disturb-permits.htm for more information.
9. A United States (U.S.) Army Corps of Engineers (COE) permit (404) and a Water Quality Certification (401) issued by the Department or permit waiver may be required for the activities described in this permit. This permit is not valid until these requirements are satisfied. If construction activity will disturb any land below the ordinary high water mark of Jurisdictional Waters of the U.S. then a 404/401 will be required. Since the COE makes determinations on what is jurisdictional, you must contact the COE to determine permitting requirements. You may call the Department's Water Protection Program at 573-751-1300 for more information. See www.dnr.mo.gov/env/wpp/401/ for more information.

10. Upon completion of construction;
 - A. Submit the enclosed form Statement of Work Completed to the Department in accordance with 10 CSR 20-6.010(5)(D);
 - B. Submit an electronic copy of the as built if the project was not constructed in accordance with previously submitted plans and specifications; and
 - C. When the facility applies for their next operating permit renewal, they will be expected to include an updated facility description on their application.

IV. REVIEW SUMMARY

1. AMMONIA

The Water Protection Program is providing this notice to inform permittees that EPA's published ammonia criteria for aquatic life protection is lower than the current Missouri criteria. The department has initiated stakeholder discussions on this topic and at this time, there is no firm target date for starting the rulemaking to adopt new standards. More information can be found at <http://dnr.mo.gov/pubs/pub2481.pdf>.

2. CONSTRUCTION PURPOSE

Missouri State Operating Permit, MO0044261 issued November 25, 2009, requires compliance with stricter Total Residual Chlorine limitations by September 15, 2013. Total Residual Chlorine limits will be met by providing tablet dechlorination.

3. FACILITY DESCRIPTION

The existing treatment facility is a two cell lagoon preceded by a septic tank and followed by a sand filter, a tablet chlorinator and a chlorine contact chamber, sludge is retained in lagoon. The facility will be modified with the addition of a tablet dechlorinator. This facility discharges to a losing stream therefore disinfection is required to be provided at all times.

4. COMPLIANCE PARAMETERS

Missouri State Operating Permit, MO0044261 issued November 25, 2009, requires compliance with stricter Total Residual Chlorine limitations by September 15, 2013. Total Residual Chlorine limits will be met by providing tablet dechlorination. Dechlorination will enable the effluent to be in compliance with Total Residual Chlorine limits of 0.008 mg/L, monthly average; and 0.017 mg/L, daily maximum.

Construction permit CP0001373 was issued September 27, 2012, for the same upgrade but the upgrade was not completed; and the permit was allowed to expire. It is expected that the upgrade will be performed as soon as possible after receipt of this construction permit.

5. REVIEW of MAJOR TREATMENT DESIGN CRITERIA

Dechlorination will be provided by a Norweco IT 2000 (or equal) tablet dispenser; this unit has the capacity to serve design flows of 20,000 GPD. The design flow of the facility is 18,675 GPD.

6. OPERATING PERMIT MODIFICATION

It is expected that the facility owner will include a new facility description in their next operating permit renewal application to reflect the installation of a dechlorination system.

Andrew G. Appelbaum, P.E.
Engineering Section
andy.appelbaum@dnr.mo.gov



MISSOURI DEPARTMENT OF NATURAL RESOURCES
 WATER PROTECTION PROGRAM
**APPLICATION FOR CONSTRUCTION PERMIT –
 WASTEWATER TREATMENT FACILITY**

FOR DEPARTMENT USE ONLY	
APP NO.	CP NO.
FEE RECEIVED \$ 750.⁰⁰	CHECK NO. 3020
DATE RECEIVED 11-20-2014	

APPLICATION OVERVIEW

The Application for Construction Permit – Wastewater Treatment Facility form has been developed in a modular format and consists of Part A and B. **All applicants must complete Part A.** Part B should be completed for applicants who currently land-apply wastewater or propose land application for wastewater treatment. **Please read the accompanying instructions before completing this form. Submittal of an incomplete application may result in the application being returned.**

PART A – BASIC INFORMATION

1.0 APPLICATION INFORMATION (Note – If any of the questions in this section are answered NO, this application may be considered incomplete and returned.)

- 1.1 Is this a Federal/State funded project? YES N/A Funding Agency: _____ Project #: _____
- 1.2 Has the Missouri Department of Natural Resources approved the proposed project's antidegradation review?
 YES Date of Approval: _____
 Attached is the No Degradation Evaluation Conclusion of Antidegradation Review form
- 1.3 Has the department approved the proposed project's facility plan*?
 YES Date of Approval: _____ NO N/A (If Not Applicable, complete No. 1.4.)
- 1.4 [Complete only if answered Not Applicable on No. 1.3.] Is a copy of the engineering report* for wastewater treatment facilities with a design flow less than 22,500 gpd included with this application?
 YES NO
- 1.5 Is a copy of the appropriate plans* and specifications* included with this application?
 YES Denote which form is submitted: Hard copy Electronic copy (See instructions.) NO
- 1.6 Is a summary of design* included with this application? YES NO
- 1.7 Has the appropriate operating permit application (A, B, or B2) been submitted to the department?
 YES Date of submittal: _____
 Enclosed is the appropriate operating permit application submittal. Denote which form: A B B2
 N/A Please explain: _____
- 1.8 Is the facility currently under enforcement with the department or the Environmental Protection Agency? YES NO
- 1.9 Is the appropriate fee included with this application? YES NO (See instructions for appropriate fee.)

* Must be affixed with a Missouri registered professional engineer's seal, signature and date.

2.0 PROJECT INFORMATION

2.1 NAME OF PROJECT

Lifestyle Mobile Home Park

2.2 PROJECT DESCRIPTION

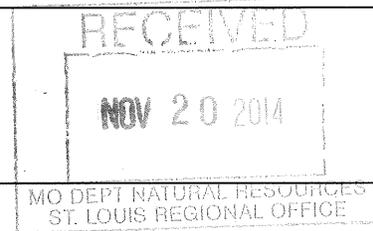
Adding Dechlorination Facilities

1.7 above Existing MO-0044261 and 1.2 Date of Approval 9/25/12

2.3 SLUDGE HANDLING, USE AND DISPOSAL DESCRIPTION

N.A.

MO DEPT NATURAL RESOURCES
 St. Louis Regional Office
 Fee Received **\$ 750.⁰⁰**
 Date **11-20-2014**

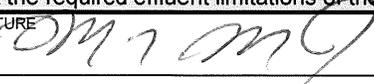


2.4 DESIGN INFORMATION

- A. Current population: 240; Design population: 249
- B. Actual Flow: 11,800 gpd; Design Average Flow: 18,700 gpd;
 Actual Peak Daily Flow: _____ gpd; Design Maximum Daily Flow: _____ gpd

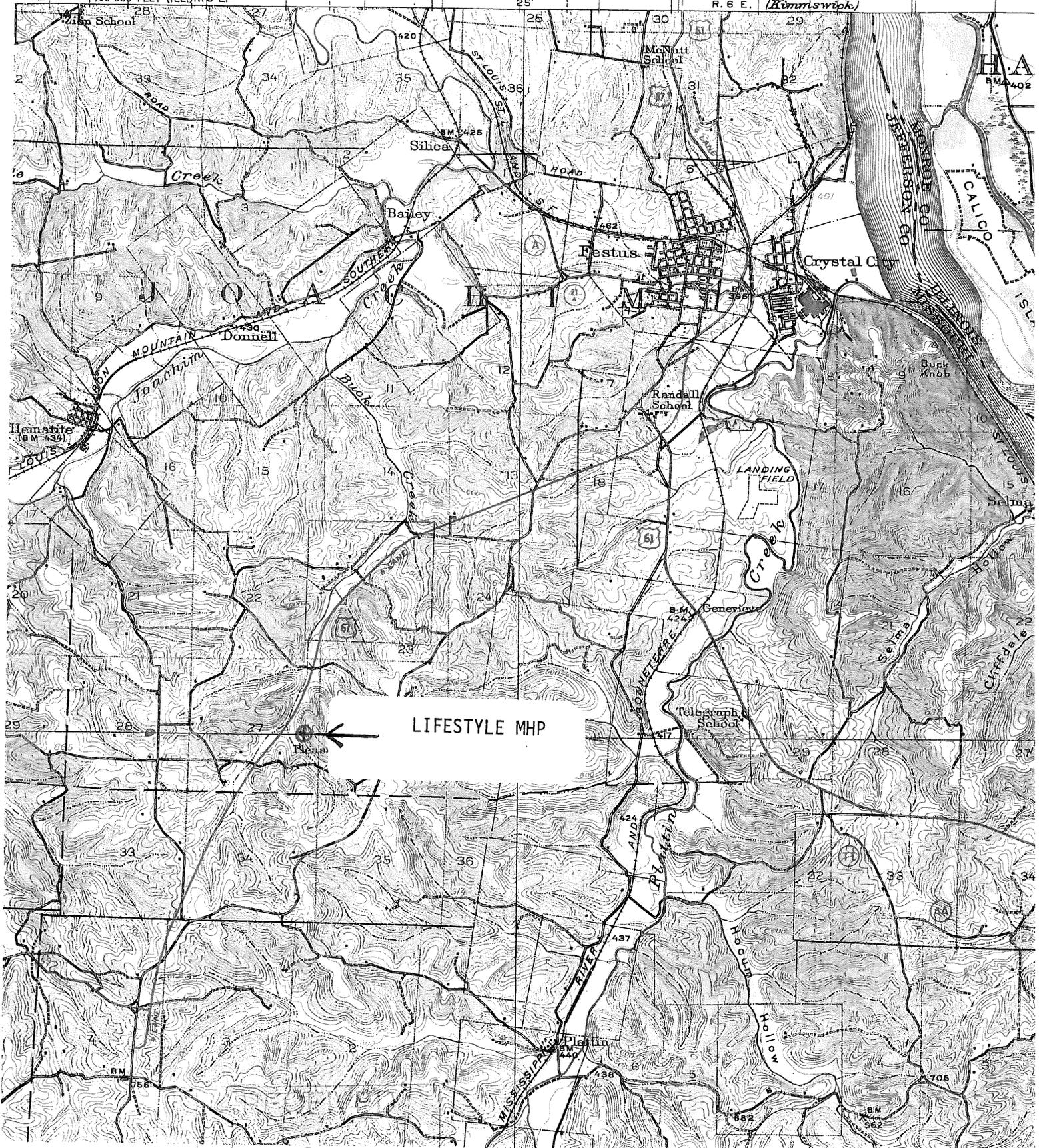
2.5 ADDITIONAL INFORMATION

- A. Is a topographic map attached? YES NO
- B. Is a process flow diagram attached? YES NO

3.0 WASTEWATER TREATMENT FACILITY				
NAME Lifestyle Mobile Home Park		TELEPHONE NUMBER WITH AREA CODE (314) 862-0981		E-MAIL ADDRESS
ADDRESS (PHYSICAL) Hwy 67 South	CITY Festus	STATE MO	ZIP CODE 63028	COUNTY Jefferson
Wastewater Treatment Facility: Mo- 0044261 (Outfall Of)				
3.1 Legal Description: SW ¼, SE ¼, NE ¼, Sec. 27, T 40, R 5E (Use additional pages if construction of more than one outfall is proposed.)				
3.2 UTM Coordinates Easting (X): _____ Northing (Y): _____ For Universal Transverse Mercator (UTM), Zone 15 North referenced to North American Datum 1983 (NAD83)				
3.3 Name of receiving streams: <u>Buck Ck</u>				
4.0 PROJECT OWNER				
NAME Central Realty Investment LLC		TELEPHONE NUMBER WITH AREA CODE (314) 862-0908		E-MAIL ADDRESS
ADDRESS 255 S Meramec, Suite 409	CITY St. Louis	STATE MO	ZIP CODE 63105-3701	
5.0 CONTINUING AUTHORITY: Permanent organization that will serve as the continuing authority for the operation, maintenance and modernization of the wastewater collection system.				
NAME Same as Above		TELEPHONE NUMBER WITH AREA CODE (314) 862-0908		E-MAIL ADDRESS
ADDRESS Same	CITY Same	STATE Same	ZIP CODE Same	
5.1 A letter from the continuing authority, if different than the owner, is included with this application. <input type="checkbox"/> YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> N/A				
5.2 COMPLETE THE FOLLOWING IF THE CONTINUING AUTHORITY IS A MISSOURI PUBLIC SERVICE COMMISSION REGULATED ENTITY.				
A. Is a copy of the certificate of convenience and necessity included with this application? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO				
5.3 COMPLETE THE FOLLOWING IF THE CONTINUING AUTHORITY IS A PROPERTY OWNERS ASSOCIATION.				
A. Is a copy of the as-filed restrictions and covenants included with this application? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO				
B. Is a copy of the as-filed warranty deed, quitclaim deed or other legal instrument which transfers ownership of the land for the wastewater treatment facility to the association included with this application? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO				
C. Is a copy of the as-filed legal instrument (typically the plat) that provides the association with valid easements for all sewers included with this application? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO				
D. Is a copy of the Missouri Secretary of State's nonprofit corporation certificate included with this application? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO				
6.0 ENGINEER				
ENGINEER NAME / COMPANY NAME Larry J. Rhutasel/Rhutasel & Assoc., Inc.		TELEPHONE NUMBER WITH AREA CODE (618) 539-3178		E-MAIL ADDRESS larry.rhutasel@rhutasel.net
ADDRESS 4 Industrial Drive	CITY Freeburg	STATE IL	ZIP CODE 62243	
7.0 PROJECT OWNER: I hereby certify that I am familiar with the information contained in this application and 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 Missouri Clean Water Law. I also understand the issuance of the construction permit does not guarantee the proposed wastewater treatment will meet the required effluent limitations of the issued Missouri State Operating Permit for this facility.				
PROJECT OWNER SIGNATURE 				
PRINTED NAME Rob Rosenfeld			DATE 11/17/14	
TITLE OR CORPORATE POSITION		TELEPHONE NUMBER WITH AREA CODE (314) 862-0988		E-MAIL ADDRESS
Mail completed copy to: MISSOURI DEPARTMENT OF NATURAL RESOURCES WATER PROTECTION PROGRAM P.O. BOX 176 JEFFERSON CITY, MO 65102-0176				

END OF PART A.
REFER TO THE APPLICATION OVERVIEW TO DETERMINE WHETHER PART B NEEDS TO BE COMPLETE.

Scale: 1:100,000
410 000 FEET (ILL.) R. 5 E.



NOV 20 2014
MO DEPT NATURAL RESOURCES
ST. LOUIS REGIONAL OFFICE

3020

CENTRAL REALTY INVESTORS, LLC

225 S. MERAMEC AVE. STE. 409
SAINT LOUIS, MO 63105-3511
(314) 862-0981



JEFFERSON BANK TRUST

4-56-810

11/14/2014

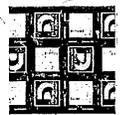
PAY TO THE ORDER OF Missouri Department of Natural Resources

\$ **750.00

Seven Hundred Fifty and 00/100 *****

DOLLARS

Missouri Department of Natural Resources
DAS - Receipts and Reporting
P.O. Box 477
Jefferson City, MO 65102



[Handwritten Signature]
AUTHORIZED SIGNATURE

MEMO

⑈003020⑈ ⑆081000566⑆ 401 231 3⑈

CENTRAL REALTY INVESTORS, LLC

Missouri Department of Natural Resources
5112 - Permits and Fees construction permit fee

11/14/2014

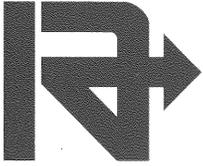
3020

750.00

Checking-Jeff Bank

750.00

Security features. Details on back.

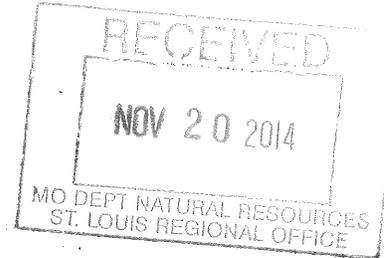


RHUTASEL and ASSOCIATES, INC.

CONSULTING ENGINEERS • LAND SURVEYORS

November 19, 2014

Missouri Department of Natural Resources
St. Louis Regional Office
7545 Lindbergh, Suite 210
St. Louis, Missouri 63125



RE: Lifestyle Mobile Home Park
Wastewater De-chlorination
Festus, Missouri
Permit #MO-0044261
RA #20612

Gentlemen:

Construction Permit CP0001373 was issued for this project on September 27, 2012, however the project was not constructed. A new permit is now requested.

Enclosed herewith are the following:

- 1) Construction Permit Application Form A.
- 2) Application Fee – Check to MDNR for \$750.00.
- 3) Plans and Specifications.
- 4) Project location map.

Should you have questions or require additional information, please contact us.

Very truly yours,

RHUTASEL AND ASSOCIATES, INC.

Larry J. Rhutasel, P.E.

LJR:kw

Enc.

cc: Bob Rosenfeld

Reply To:

4 Industrial Drive, P.O. Box 97
Freeburg, Illinois 62243-0097
Phone: (618) 539-3178
Fax: (618) 539-3174
E-mail: raai.freeburg@rhutasel.net

www.rhutasel.net

201 South Locust Street
Centralia, Illinois 62801-3508
Phone: (618) 532-1992
Fax: (618) 532-1993
E-mail: raai.centralia@rhutasel.net