

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- 0108618

Owner: George's Inc.
Address: P.O. Box G, Springdale, AR 72765

Continuing Authority: Same as above
Address: Same as above

Facility Name: George's, Inc. Cassville Processing Plant
Facility Address: 9066 State Hwy W, Cassville MO 65625

Legal Description: See pages two through five
UTM Coordinates: See pages two through five

Receiving Stream: See pages two through five
First Classified Stream and ID: See pages two through five
USGS Basin & Sub-watershed No.: See pages two through five

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 pages two through five (2 – 5)

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 Sections 640.013, 621.250, and 644.051.6 of the Law.

October 1, 2014
Effective Date


Sara Parker Pauley, Director, Department of Natural Resources

March 31, 2018
Expiration Date


John Madras, Director, Water Protection Program

FACILITY DESCRIPTION (continued)

Permitted Feature #001 – Poultry Processing Plant – SIC #2015

Four cell storage lagoon/wastewater irrigation.

Design flow is 2.8 MGD

Average design flow is 2.0 MGD

Legal Description:	NW¼, SE¼, Sec. 35, T24N, R28W, Barry County
UTM Coordinates:	x=417759, y= 4067467
Receiving Stream:	Unnamed Tributary to Pogue Creek (U) (losing)
First Classified Stream and ID:	Pogue Creek (C) (3232)
USGS Basin & Sub-watershed No.:	(11070207-0702)

Receiving Stream Watershed: losing stream setting that flows into Pogue Creek.

Facility Type:

No-discharge Storage and Irrigation System

Storage Basins:

Freeboard for basin: 2.0 feet

Storage volume (minimum to maximum water levels) 65, 800,000 gallons in four cells

Storage Capacity (in Days):

Design for Dry weather Flows: 33 days.

Design with 1-in 10 year flows: 24 days.

Land Application:

Irrigation volume per year:	730,000,000 gallons (including 1-in-10 year flows)
Irrigation areas:	1,270 acres at design loading
Application rates per acre:	0.3 inch / hour; 0.4 inch / day; 3.0 inches / week; 24 inches / year
Field slopes:	less than 8 percent
Equipment type:	sprinklers / center pivot / traveling gun
Vegetation:	grass hay / row crops
Application rate is based on:	nutrient/hydraulic loading rate

Outfalls # 002, 003 & 012-Discharges are no longer authorized.- Retained for record keeping purposes.

Outfalls #004, #005, #006, and #007 – Deleted due to change in property boundaries

FACILITY DESCRIPTION (continued)

Permitted Feature #008– Upstream stormwater monitoring

Legal Description: NE¼, SW ¼, Sec. 02, T23N, R28W, Barry County
UTM Coordinates: X= 417332, Y= 4065764
Receiving Stream: Unnamed Tributary to Pogue Creek (U)
First Classified Stream and ID: Pogue Creek (C) (03232)
USGS Basin & Sub-watershed No.: (11070207-0702)

Permitted Feature #009– Stormwater runoff monitoring

Legal Description: SE ¼, SE ¼, Sec.34, T24N, R28W, Barry County
UTM Coordinates: X= 416232, Y= 4067112
Receiving Stream: Unnamed Tributary to Pogue Creek (U)
First Classified Stream and ID: Pogue Creek (C) (03232)
USGS Basin & Sub-watershed No.: (11070207-0702)

Permitted Feature #010– Stormwater runoff monitoring

Legal Description: NE ¼, NE ¼, Sec.10, T23N, R28W, Barry County
UTM Coordinates: X= 416136, Y= 4065054
Receiving Stream: Unnamed Tributary to Woodward Creek (U)
First Classified Stream and ID: Shoal Creek (P) (03232)
USGS Basin & Sub-watershed No.: (11070207-0702)

Permitted Feature #011– Stormwater runoff monitoring

Legal Description: NE ¼, NE ¼, Sec.03, T23N, R28W, Barry County
UTM Coordinates: X= 416225, Y= 4066844
Receiving Stream: Unnamed Tributary to Pogue Creek (U)
First Classified Stream and ID: Pogue Creek (C) (03232)
USGS Basin & Sub-watershed No.: (11070207-0702)

In-stream Sampling (SS 1)

Dillbeck Spring

Legal Description: NW¼, SW¼, Sec. 33, T24N, R28W, Barry County, UTM coordinates, X= 414320, y= 4067556

In-stream Sampling (SS 2)

New Hope Spring

Legal Description: SW¼, NW¼, Sec. 33, T24N, R28W, Barry County, UTM coordinates, X= 413538, Y= 4067777

FACILITY DESCRIPTION (continued)

Monitoring Wells:

Permitted Feature #013 -- MW#1

Legal Description: SE¹/₄, SE¹/₄, Sec. 35, T24N, R28W, Barry County, UTM coordinates, X= 418091, Y= 4067146

Permitted Feature #014 -- MW#5

Legal Description: NE¹/₄, SE¹/₄, Sec. 35, T24N, R28W, Barry County, UTM coordinates, X= 418087, Y= 4067538

Permitted Feature #015 -- MW#7

Legal Description: NE¹/₄, NW¹/₄, Sec. 35, T24N, R28W, Barry County, UTM coordinates, X= 417189, Y= 4068453

Permitted Feature #020 -- MW#8

Legal Description: NE¹/₄, NE¹/₄, Sec. 35, T24N, R28W, Barry County, UTM coordinates, X= 418065, Y= 4068404

Permitted Feature #021 -- MW#9

Legal Description: NW¹/₄, NE¹/₄, Sec. 35, T24N, R28W, Barry County, UTM coordinates, X= 417706, Y= 4068170

Permitted Feature #024 -- MW#17

Legal Description: NE¹/₄, SE¹/₄, Sec. 02, T23N, R28W, Barry County, UTM coordinates, X= 417789, Y= 4065759

Permitted Feature #025 -- MW#18

Legal Description: SE¹/₄, NE¹/₄, Sec. 02, T23N, R28W, Barry County, UTM coordinates, X= 418125, Y= 4066157

Permitted Feature #030 -- MW#24

Legal Description: SE¹/₄, NW¹/₄, Sec. 34, T24N, R28W, Barry County, UTM coordinates, X= 416271, Y= 4067716

Permitted Feature #031 -- MW#25

Legal Description: SE¹/₄, SE¹/₄, Sec. 34, T24N, R28W, Barry County, UTM coordinates, X= 416266, Y= 4067220

Permitted Feature #032 -- MW#26

Legal Description: NE¹/₄, SE¹/₄, Sec. 34, T24N, R28W, Barry County, UTM coordinates, X= 416266, Y= 4067509

Permitted Feature #033 -- MW#27

Legal Description: SW¹/₄, NE¹/₄, Sec. 02, T23N, R28W, Barry County, UTM coordinates, X= 417597, Y= 4066193

Permitted Feature #034 -- MW#28

Legal Description: SE¹/₄, NE¹/₄, Sec. 10, T23N, R28W, Barry County, UTM coordinates, X= 416123, Y= 4064601

Permitted Feature #035 -- MW#29

Legal Description: NE¹/₄, NE¹/₄, Sec. 10, T23N, R28W, Barry County, UTM coordinates, X= 416135, Y= 4065064

Permitted Feature #036 -- MW#30

Legal Description: NE¹/₄, SE¹/₄, Sec. 03, T23N, R28W, Barry County, UTM coordinates, X= 416175, Y= 4065778

Permitted Feature #037 -- MW#31

Legal Description: NW¹/₄, SW¹/₄, Sec. 11, T23N, R28W, Barry County, UTM coordinates, X= 416552, Y= 4064492

Permitted Feature #041 -- MW#32

Legal Description: SW¹/₄, SW¹/₄, Sec. 02, T23N, R28W, Barry County, UTM coordinates, X= 416562, Y= 4065583

FACILITY DESCRIPTION (continued)

Permitted Feature #042 -- MW#36

Legal Description: SW $\frac{1}{4}$, SW $\frac{1}{4}$, Sec. 1, T23N, R28W, Barry County, UTM coordinates, X= 418363, Y= 4065298

Permitted Feature #043 -- MW#37

Legal Description: SE $\frac{1}{4}$, NE $\frac{1}{4}$, Sec. 11, T23N, R28W, Barry County, UTM coordinates, X= 417971, Y= 4064494

Permitted Feature #044 -- MW#34

Legal Description: NW $\frac{1}{4}$, NE $\frac{1}{4}$, Sec. 11, T23N, R28W, Barry County, UTM coordinates, X= 417481, Y= 4065198

Permitted Feature #045 -- MW#38

Legal Description: NW $\frac{1}{4}$, SE $\frac{1}{4}$, Sec. 11, T23N, R28W, Barry County, UTM coordinates, X= 417550, Y= 4064104

Permitted Feature #046 -- MW#39

Legal Description: NE $\frac{1}{4}$, NE $\frac{1}{4}$, Sec. 03, T23N, R28W, Barry County, UTM coordinates, X= 416194, Y= 4066743

Permitted Feature #047 -- MW#40

Legal Description: SE $\frac{1}{4}$, NE $\frac{1}{4}$, Sec. 03, T23N, R28W, Barry County, UTM coordinates, X= 416189 , Y= 4066468

Permitted Feature #048 -- MW#41

Legal Description: SE $\frac{1}{4}$, NE $\frac{1}{4}$, Sec. 03, T23N, R28W, Barry County, UTM coordinates, X= 416178, Y= 4066157

The following Monitoring Wells were removed from service and their numbers were retained for record keeping.

MW #2, MW#3, MW#4, MW#6, MW#12, MW#19, MW#20, MW#21, MW#21A, MW#22, MW#23, MW#33, & MW#35.

PERMITTED FEATURE #001	TABLE A-1. IRRIGATION SYSTEM MONITORING REQUIREMENTS				PAGE NUMBER 6 of 11	
	PERMIT NUMBER MO-0108618					
The permittee is authorized to conduct land application of wastewater as specified in the application for this permit. The final limitations shall become effective October 1, 2014 , 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
Storage Basin Operational Monitoring						
Storage Basin Freeboard (Note 1)	Feet	*			once/month	measured
Precipitation	Inches	*			daily	total
MONITORING REPORTS SHALL BE SUBMITTED <u>QUARTERLY</u> ; THE FIRST REPORT IS DUE JANUARY 28, 2015 .						

PERMITTED FEATURE #001	TABLE A-2. IRRIGATION SYSTEM MONITORING REQUIREMENTS					
	The permittee is authorized to conduct land application of wastewater as specified in the application for this permit. The final limitations shall become effective October 1, 2014 , 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
Wastewater Land Application Operational Monitoring						
Irrigation Period	Hours/day	*			daily	total
Volume Irrigated	Gallons	*			daily	total
Application Area	Acres	*			daily	total
Application Rate	Inches/acre	*			daily	total
MONITORING REPORTS SHALL BE SUBMITTED <u>QUARTERLY</u> ; THE FIRST REPORT IS DUE JANUARY 28, 2015 .						
Wastewater Land Applied (Notes 2 and 3)						
pH	SU	*			once/month	grab
Total Kjeldahl Nitrogen as N	mg/L	*			once/month	grab
Nitrate Nitrogen as N	mg/L	*			once/month	grab
Ammonia Nitrogen as N	mg/L	*			once/month	grab
Total Phosphorus as P	mg/L	*			once/month	grab
Oil & Grease	mg/L	*			once/month	grab
MONITORING REPORTS SHALL BE SUBMITTED <u>QUARTERLY</u> ; THE FIRST REPORT IS DUE JANUARY 28, 2015 .						

A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

The permittee is authorized to discharge from outfall(s) with serial number(s) as specified in the application for this permit. The final effluent limitations shall become effective upon issuance and remain in effect until expiration of the permit. Such discharges shall be controlled, limited and monitored by the permittee as specified below:

PERMITTED FEATURE NUMBER AND EFFLUENT PARAMETER(S)	UNITS	FINAL EFFLUENT LIMITATIONS			MONITORING REQUIREMENTS	
		DAILY MAXIMUM	WEEKLY AVERAGE	MONTHLY AVERAGE	MEASUREMENT FREQUENCY	SAMPLE TYPE
Permitted Feature #008 Upstream Stormwater Run-on (Note 4)						
Flow	MGD	*			once/quarter**	24 hr. estimate
Biochemical Oxygen Demand ₅	mg/L	*			once/quarter**	grab
Total Suspended Solids	mg/L	*			once/quarter**	grab
pH – Units	SU	*			once/quarter**	grab
Ammonia Nitrogen as N	mg/L	*			once/quarter**	grab
Nitrate, Total as N	mg/L	*			once/quarter**	grab

MONITORING REPORTS SHALL BE SUBMITTED QUARTERLY; THE FIRST REPORT IS DUE **JANUARY 28, 2014**. THERE SHALL BE NO DISCHARGE OF FLOATING OR VISIBLE FOAM IN OTHER THAN TRACE AMOUNTS.

Permitted Feature #009, #010, and #011 – Stormwater Runoff (Note 4)

Flow	MGD	*			once/quarter**	24 hr. estimate
Biochemical Oxygen Demand ₅	mg/L	*			once/quarter**	grab
Total Suspended Solids	mg/L	*			once/quarter**	grab
pH – Units	SU	***			once/quarter**	grab
Ammonia Nitrogen as N	mg/L	12.1		4.6	once/quarter**	grab
Nitrate, Total as N	mg/L	*			once/quarter**	grab

MONITORING REPORTS SHALL BE SUBMITTED QUARTERLY; THE FIRST REPORT IS DUE **JANUARY 28, 2014**. THERE SHALL BE NO DISCHARGE OF FLOATING OR VISIBLE FOAM IN OTHER THAN TRACE AMOUNTS.

Monitoring Wells #1, 5, 7-9, 17, 18, 24-32, 34, 36-41 Ground Water Monitoring Wells

Static Water Level	feet	*			once/quarter**	grab
pH – Units	SU	*			once/quarter**	grab
Nitrate, Total as N	mg/L	*		10.0	once/quarter**	grab

MONITORING REPORTS SHALL BE SUBMITTED QUARTERLY; THE FIRST REPORT IS DUE **JANUARY 28, 2014**. THERE SHALL BE NO DISCHARGE OF FLOATING OR VISIBLE FOAM IN OTHER THAN TRACE AMOUNTS.

A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

PAGE NUMBER 8 of 11

PERMIT NUMBER M0-0108618

The permittee is authorized to discharge from outfall(s) with serial number(s) as specified in the application for this permit. The final effluent limitations shall become effective upon issuance and remain in effect until expiration of the permit. Such discharges shall be controlled, limited and monitored by the permittee as specified below:

PERMITTED FEATURE AND EFFLUENT PARAMETER(S)	UNITS	FINAL EFFLUENT LIMITATIONS			MONITORING REQUIREMENTS	
		DAILY MAXIMUM	WEEKLY AVERAGE	MONTHLY AVERAGE	MEASUREMENT FREQUENCY	SAMPLE TYPE
SS1, SS2 – Spring Monitoring (Dillbeck Spring and New Hope Spring)						
pH – Units	SU	*			once/quarter**	grab
Nitrate, Total as N	mg/L	*			once/quarter**	grab

MONITORING REPORTS SHALL BE SUBMITTED QUARTERLY; THE FIRST REPORT IS DUE **JANUARY 28, 2014**. THERE SHALL BE NO DISCHARGE OF FLOATING OR VISIBLE FOAM IN OTHER THAN TRACE AMOUNTS.

* 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 28th
Third	July, August, September	Sample at least once during any month of the quarter	October 28th
Fourth	October, November, December	Sample at least once during any month of the quarter	January 28th

*** pH is limited to range of 6.5-9.0

Note 1 - Storage Basin freeboard shall be reported as Storage Basin water level in feet below the overflow level.

Note 2 - Wastewater that is irrigated shall be sampled at the irrigation pump or wet well. If irrigation did not occur during the report period, report as “No Irrigation”.

Note 3 - Monitor once per month during the months when land application occurs.

Note 4 – Samples shall be collected from a discharge resulting from a precipitation event greater than 0.1 inches in magnitude that occurs at least 72 hours from the previously measurable precipitation event. If a precipitation event does not occur within the reporting period, report as no-discharge.

B. STANDARD CONDITIONS

In addition to specified conditions stated herein, this permit is subject to the attached Part I, standard conditions dated August 1, 2014, and hereby incorporated as though fully set forth herein.

C. 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:
 - (a) 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:
 - (1) contains different conditions or is otherwise more stringent than any effluent limitation in the permit; or
 - (2) controls any pollutant not limited in the permit.
 - (b) 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.
 - (c) 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 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. **Water Quality Standards**
 - (a) 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.
 - (b) **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:
 - (1) 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;
 - (2) Waters shall be free from oil, scum and floating debris in sufficient amounts to be unsightly or prevent full maintenance of beneficial uses;
 - (3) Waters shall be free from substances in sufficient amounts to cause unsightly color or turbidity, offensive odor or prevent full maintenance of beneficial uses;
 - (4) Waters shall be free from substances or conditions in sufficient amounts to result in toxicity to human, animal or aquatic life;
 - (5) There shall be no significant human health hazard from incidental contact with the water;
 - (6) There shall be no acute toxicity to livestock or wildlife watering;
 - (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.

C. SPECIAL CONDITIONS (continued)

5. 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.

6. Report as no-discharge when a discharge does not occur during the report period.

7. 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:

- 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. 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
- c. 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

8. It is a violation of the Missouri Clean Water Law to fail to pay fees associated with this permit (644.055 RSMo).

9. The facility must be sufficiently secured to restrict entry by children, livestock and unauthorized persons as well as to protect the facility from vandalism.

10. 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.

11. 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.

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 land application systems. The O&M Manual shall be reviewed and updated at least every five years and submitted to the department for review and approval.

13. An all-weather access road shall be provided to the treatment facility.

D. SPECIAL CONDITIONS (continued)

14. 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.
15. 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.
16. 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 two feet below the Emergency Spillway except due to exceedances of the 1-in-10 year, 365-day or 25-year, 24-hour storm events. 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.**
 - (e) Saturated/Frozen Conditions. There shall be no irrigation during 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 irrigation sites when application is occurring.
 - (h) Nitrogen Loading Rates. Wastewater irrigation rates shall not exceed a nitrogen application rate in excess of the amount removed by crops and generally will not exceed 300 pounds Plant Available Nitrogen (PAN) nitrogen per acre per year. Sample PAN calculations shall be included in the O&M Manual.
 - (i) Phosphorus loading in the wastewater should be reduced by eliminating phosphorus sources or capturing it at the point of use.
 - (j) Soil sampling and analyses to be conducted as outlined in the O&M manual.
 - (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.
17. Land Application Sites. To add additional land application sites or convert any of the land to public use areas a permit modification may be required. The facility shall contact the Department for a 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 department.
18. The permittee shall conduct a study to determine appropriate methods to reduce the imbalance in the phosphorus being land applied and the amount removed by crops. The study shall be completed and submitted to the department within one year of the effective date of this permit.

**Missouri Department of Natural Resources
Fact Sheet for Renewal of
George's Inc. Cassville Processing Plant
NPDES #: MO-0108618
Barry County**

A Statement of Basis (Statement) gives pertinent information regarding the applicable regulations and rationale for the development of the NPDES Missouri State Operating Permit (operating permit). This Statement includes Wasteload Allocations, Water Quality Based Effluent Limitations, and Reasonable Potential Analysis calculations as well as any other calculations that effect the effluent limitations of this operating permit. This Statement does not pertain to operating permits that include sewage sludge land application plans and variance procedures, and does not include the public comment process for this operating permit.

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

Part I – Facility Information

Facility Type: Poultry Processing
Facility SIC Code(s): 2015

Facility Description: The facility slaughters and process's chicken. There is also a chicken hatchery and a feedmill. The facility has a pretreatment by screening / DAF / aerated and or anaerobic storage basin / spray irrigation. Storage basin / no discharge system. Emergency discharge from West Storage basin is not allowed. Water from the West Storage basin is pumped to the East Storage basin. The irrigation sites total 1,270 acres all with fixed sprinkler systems or center pivot irrigators..

PERMITTED FEATURES TABLE:

PERMIT FEATURE	DESIGN FLOW (CFS)	TREATMENT LEVEL	EFFLUENT TYPE	DISTANCE TO CLASSIFIED SEGMENT (MI)
001	4.33	Secondary / no discharge	Industrial / Poultry	~1.8
008, 009, 011	dependent upon rainfall	none	Industrial / Poultry	~1.8
010	dependent upon rainfall	none	Industrial / Poultry	~4.4

Water Quality History: This facility has met the requirements in the previous permit. Monitoring frequency for stormwater, spring monitoring, and groundwater monitoring wells has been reduced from once per month (12 per year) to once per quarter (4 per year). Nutrient loading has been balanced with crop removal for nitrogen but phosphorus loading rates have exceeded the crop removal rates. The permittee will conduct a study to determine methods to balance the phosphorus loading and application rates with expected removal.

Part II – Operator Certification Requirements

As per [10 CSR 20-9.010(2)(A)], requirements for operation by certified personnel shall apply to all wastewater treatment systems, if applicable, as listed below:

Not Applicable ;

This facility is not required to have a certified operator.

Part III – Receiving Stream Information

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 list effluent limitations for specific parameters, which are presented in each outfall’s Effluent Limitation Table and further discussed in the Derivation & Discussion of Limits section.

Please mark the correct designated waters of the state categories of the receiving stream.

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

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:

WATERBODY NAME	CLASS	WBID	DESIGNATED USES*	8-DIGIT HUC	EDU**
Unnamed Tributary to Pogue Creek	U	N/A	General Criteria, Losing	11070207	Ozark / Neosho
Pogue Creek	C	03232	LWW, AQL, WBC-B***	11070207	Ozark / Neosho
Unnamed Tributary to Woodward Creek	U	N/A	General Criteria, Losing	11070207	Ozark / Neosho
Shoal Creek #2	P	03230	IRR, LWW, AQL, CLF, WBC-A, SCR	11070207	Ozark / Neosho

* - 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).

** - Ecological Drainage Unit

*** - UAA has not been conducted.

Part IV – 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); CFR §122.44(I)] that requires a reissued permit to be as stringent as the previous permit with some exceptions.

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

ANTIDegradation:

Policies which ensure protection of water quality for a particular water body where the water quality exceeds levels necessary to protect fish and wildlife propagation and recreation on and in the water. This also includes special protection of waters designated as outstanding natural resource waters. Antidegradation requirements are consistent with 40 CFR 131.12 that outlines methods used to assess activities that may impact the integrity of a water and protect existing uses. This policy may compel the state to maintain a level of water quality above those mandated by criteria.

Not Applicable ;

Renewal of permit for existing facility.

APPLICABLE PERMIT PARAMETERS:

Effluent parameters for conventional, non-conventional, and toxic pollutants have been obtained from the previous NPDES operating permit for this facility, technology based effluent limits, and from appropriate sections of the renewal application.

COMPLIANCE AND ENFORCEMENT:

Action taken by the department to resolve violations of the Missouri Clean Water Law, its implementing regulations, and/or any terms and condition of an operating permit.

Not Applicable ;

The permittee/facility is not under enforcement action and is considered to be in compliance with the Missouri Clean Water Law, its implementing regulations, and/or any terms and condition of an operating permit.

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 ;

At this time, the permittee is not required to implement and enforce a Pretreatment Program.

REASONABLE POTENTIAL ANALYSIS (RPA):

Limitations must control all pollutants or pollutant parameters that are or may be discharged at a level which will cause, have reasonable potential to cause, or contribute to an excursion above the Missouri Water Quality Standards.

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). Please see the United States Environmental Protection Agency's (EPA) website for interpretation of percent removal requirements for National Pollutant Discharge Elimination System Permit Application Requirements for Publicly Owned Treatment Works and Other Treatment Works Treating Domestic Sewage @ www.epa.gov/fedrgstr/EPA-WATER/1999/August/Day-04/w18866.htm

Not Applicable ;

This wastewater treatment facility is not a POTW. Influent monitoring is not being required to determine percent removal.

SANITARY SEWER OVERFLOWS (SSOs), AND INFLOW & INFILTRATION (I&I):

Collection systems are a critical element in the successful performance of the wastewater treatment process. Under certain conditions, poorly designed, built, managed, operated, and/or maintained systems can pose risks to public health, the environment, or both. Causes of SSOs include, but are not limited to, the following: high levels of I&I during wet weather; blockages; structural, mechanical, or electrical failures; collapsed or broken sewer pipes; insufficient conveyance capacity; and vandalism. Effective and continuous management, operation, and maintenance, as well as ensuring adequate capacity and rehabilitation when necessary are critical to maintaining collection system capacity and performance while extending the life of the system.

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 ;

There is no Schedule of Compliance.

STORM WATER POLLUTION PREVENTION PLAN (SWPPP):

A plan to schedule activities, prohibitions of practices, maintenance procedures, and other management practices to prevent or reduce the pollution of waters of the state. The plan may include, but is not limited to, treatment requirements, operating procedures, and practices to control facility site runoff, spillage or leaks, sludge or waste disposal, or drainage from raw material storage.

Not Applicable ;

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

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 to 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:

Not Applicable ;

A WLA study was either not submitted or determined not applicable by department staff.

WHOLE EFFLUENT TOXICITY (WET) TEST:

As per [10 CSR 20-7.031(1)(CC)], a toxicity test conducted under specified laboratory conditions on specific indicator organism; and as per [40 CFR Part 122.2], the aggregate toxic effect of an effluent measured directly by a toxicity test.

Not Applicable ;

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

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 ;

The streams are not listed on the 2012 list.

Part V – Permit Limits Determination

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. Monitoring requirement only based on best professional judgment.

EMERGENCY DISCHARGE TABLE:

PARAMETER	UNIT	DAILY MAXIMUM	WEEKLY AVERAGE	MONTHLY AVERAGE	MODIFIED	PREVIOUS PERMIT LIMITATIONS
Flow	MGD	*			NO	*
Biochemical Oxygen Demand ₅	mg/L	*			YES	15/10
Total Suspended Solids	mg/L	*			YES	20/15
Ammonia as N	mg/L	*			YES	12.1/4.6
pH	SU	*			YES	6.5-9.0
Oil & Grease	mg/L	*			YES	14/8.0
E.coli	**	*			YES	126
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 E. coli is a geometric mean.

• **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	
Oil & Grease	once/day while discharging	
E.coli	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	9	*			NO	*
Precipitation	inches	9	*			NO	*
Monitoring Frequency	Please see Minimum Sampling and Reporting Frequency Requirements in the Derivation and Discussion Section below.						

* - Monitoring requirement only.

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	4/year
Precipitation	once/day	4/year

PERMITTED FEATURE #001 – IRRIGATED WASTEWATER

PARAMETER	UNIT	BASIS FOR LIMITS	DAILY MAXIMUM	WEEKLY AVERAGE	MONTHLY AVERAGE	MODIFIED	PREVIOUS PERMIT LIMITATIONS
Irrigation Period	hours	9	*			NO	*
Volume Irrigated	gallons	9	*			NO	*
Application Area	acres	9	*			NO	*
Application Rate	inches	9	*			NO	*
pH	SU	9	*			YES	6.5-9.0
Total Kjeldahl Nitrogen	mg/L	9	*			NO	*
Nitrate Nitrogen as N	mg/L	9	*			NO	*
Ammonia Nitrogen as N	mg/L	9	*			NO	*
Total Phosphorus as P	mg/L	9	*			NO	*
Oil & Grease	mg/L	9	*			NO	*
Monitoring Frequency	Please see Minimum Sampling and Reporting Frequency Requirements in the Derivation and Discussion Section below.						

*- Monitoring requirement only

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.

- **pH.** Monitoring requirement only. Monitoring for the Application Rate is included to determine if proper application is occurring on the land application fields.
- **Total Kjeldahl Nitrogen.** Monitoring requirement only. Monitoring for Total Kjeldahl Nitrogen as N is included to determine nutrient loading rates on the land application fields. [10 CSR 20-8.020(15)(F)7.]
- **Nitrate Nitrogen as N.** Monitoring requirement only. Monitoring for Nitrate Nitrogen as N is included to determine nutrient loading rates on the land application fields. [10 CSR 20-8.020(15)(F)7.]
- **Ammonia Nitrogen as N.** 7 Monitoring requirement only. Monitoring for Ammonia Nitrogen as N is included to determine nutrient loading rates on the land application fields. [10 CSR 20-8.020(15)(F)7]
- **Total Phosphorus as P.** Monitoring requirement only. Monitoring for Total Phosphorus as P is included to determine nutrient loading rates on the land application fields. [10 CSR 20-8.020(15)(F)7.]
- **Oil & Grease.** Monitoring requirement only. Monitoring for Oil & Grease 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	4/year
Volume Irrigated	once/day	4/year
Application Area	once/day	4/year
Application Rate	once/day	4/year
Total Kjeldahl Nitrogen	once/month	4/year
Nitrate Nitrogen as N	once/month	4/year
Ammonia Nitrogen as N	once/month	4/year
Total Phosphorus as P	once/month	4/year
Oil & Grease	once/month	4/year

Permitted Feature #001 – Main Facility Outfall

Land application and Irrigation

The land application Operational Monitoring and the Monitoring Tests for the Irrigated Wastewater are standard for all land application permits. The Irrigated Wastewater monitoring is necessary to determine Phosphorus and Nitrogen loading for the application fields.

Permitted Feature #008 is run-on to the site. Monitoring only is needed.

Permitted Feature, #008 – Storm water Run-on

EFFLUENT LIMITATIONS TABLE:

PARAMETER	UNIT	BASIS FOR LIMITS	DAILY MAXIMUM	WEEKLY AVERAGE	MONTHLY AVERAGE	MODIFIED	PREVIOUS PERMIT LIMITATIONS
FLOW	GPD	9	*			NO	*
BOD ₅	MG/L	9	*			NO	*
TSS	MG/L	9	*			NO	*
PH (S.U.)	SU	9	*			NO	*
AMMONIA AS N	MG/L	9	*			NO	*
NITRATE	MG/L	9	*			NO	*
MONITORING FREQUENCY	Please see Minimum Sampling and Reporting Frequency Requirements in the Derivation and Discussion Section below.						

Permitted Feature, #009, #010 and #011 – Storm water Runoff

EFFLUENT LIMITATIONS TABLE:

PARAMETER	UNIT	BASIS FOR LIMITS	DAILY MAXIMUM	WEEKLY AVERAGE	MONTHLY AVERAGE	MODIFIED	PREVIOUS PERMIT LIMITATIONS
FLOW	GPD	9	*			NO	*
BOD ₅	MG/L	9	*			NO	*
TSS	MG/L	9	*			NO	*
PH (S.U.)	SU	9	**			NO	6.5-9.0
AMMONIA AS N	MG/L	1, 9	12.1		4.6	NO	*
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

** Maintain pH between 6.5- 9.0 pH units

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 FEATURES #008, #009, #010, #011 – DERIVATION AND DISCUSSION OF LIMITS:

Biochemical Oxygen Demand (BOD₅). Monitoring only to ensure there is no runoff from the site.

Total Suspended Solids (TSS). Monitoring only to ensure there is no runoff from the site.

pH. – pH is to be maintained between 6.5 to 9.0 pH units, as per [10 CSR 20-7]. pH is measured in pH units and is not to be averaged.

Total Ammonia Nitrogen. The discharge is only during storm water runoff, most likely during high rain events. Because the discharge is non-continuous, acute limits will be established. Used pH of 7.8.

$LTA_a = 12.1 \text{ mg/L} (0.321) = 3.9 \text{ mg N/L}$ [CV = 0.6, 99th Percentile]

$MDL = 3.9 \text{ mg/L} * 3.11 = 12.1 \text{ mg N/L}$ [CV = 0.6, 99th Percentile]

$AML = 3.9 \text{ mg/L} * 1.19 = 4.6 \text{ mg N/L}$ [CV = 0.6, 95th Percentile, n = 30]

Nitrate, Total (as N)

Monitoring only to ensure there is no runoff from the site.

Minimum Sampling and Reporting Frequency Requirements.

PARAMETER	SAMPLING FREQUENCY	REPORTING FREQUENCY
FLOW	QUARTERLY	QUARTERLY
BOD ₅	QUARTERLY	QUARTERLY
TSS	QUARTERLY	QUARTERLY
PH	QUARTERLY	QUARTERLY
AMMONIA AS N	QUARTERLY	QUARTERLY
NITRATE AS N	QUARTERLY	QUARTERLY

Groundwater Monitoring Wells, # 1, 5, 7-9, 17, 18, 24-32, 34, 36-41

EFFLUENT LIMITATIONS TABLE:

PARAMETER	UNIT	BASIS FOR LIMITS	DAILY MAXIMUM	WEEKLY AVERAGE	MONTHLY AVERAGE	MODIFIED	PREVIOUS PERMIT LIMITATIONS
STATIC WATER LEVEL	FEET	9	*			NO	*
PH (S.U.)	SU	9	*			NO	*
NITRATE	MG/L	9	*		10.0	YES	20.1/10.0
MONITORING FREQUENCY	Please see Minimum Sampling and Reporting Frequency Requirements in the Derivation and Discussion Section below.						

* - Monitoring requirement only

Basis for Limitations Codes:

- | | |
|--|------------------------------------|
| 7. State or Federal Regulation/Law | 7. Antidegradation Policy |
| 8. Water Quality Standard (includes RPA) | 8. Water Quality Model |
| 9. Water Quality Based Effluent Limits | 9. Best Professional Judgment |
| 10. Lagoon Policy | 10. TMDL or Permit in lieu of TMDL |
| 11. Ammonia Policy | 11. WET Test Policy |
| 12. Antidegradation Review | |

Groundwater Monitoring Wells, # 1, 5, 7-9, 17, 18, 24-32, 34, 36-41.– DERIVATION AND DISCUSSION OF LIMITS:

This facility is located in a karst area with losing streams in the vicinity. To ensure that groundwater is not being compromised monitoring wells are included. The parameters pH and Nitrate are good indicators to determine if wastewater is entering the groundwater. Nitrate is the only parameter that has limits.

Static Water Level. Monitoring only to determine level of water.

pH. Monitoring only.

Nitrate, Total (as N) The limit is set at 10 mg/L per 10 CSR 20-7.031 limit for Nitrate in groundwater.

Minimum Sampling and Reporting Frequency Requirements.

PARAMETER	SAMPLING FREQUENCY	REPORTING FREQUENCY
STATIC WATER LEVEL	QUARTERLY	QUARTERLY
PH	QUARTERLY	QUARTERLY
NITRATE AS N	QUARTERLY	QUARTERLY

Part VI – 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. **Permit Synchronization date is March 31, 2018.**

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 in 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 ended on 08/25/2014 and no comments were received.

DATE OF FACT SHEET: JULY 14, 2014

COMPLETED BY:

TONY DOHMEN
ENVIRONMENTAL SPEC. IV
WATER PROTECTION PROGRAM
MISSOURI DEPARTMENT OF NATURAL RESOURCES
(573) 751-1398
tony.dohmen@dnr.mo.gov



MISSOURI DEPARTMENT OF NATURAL RESOURCES
WATER PROTECTION PROGRAM, WATER POLLUTION CONTROL BRANCH
FORM A - APPLICATION FOR CONSTRUCTION OR OPERATING PERMIT UNDER MISSOURI CLEAN WATER LAW

AUG - 8 2012

AP 12800

FOR AGENCY USE ONLY	
CHECK NUMBER	NO FEE REQUIRED
DATE RECEIVED	FEE SUBMITTED
8/8/12	⊕

Note PLEASE READ THE ACCOMPANYING INSTRUCTIONS BEFORE COMPLETING 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 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
- An operating permit renewal; permit # MO- 0108618
- An operating permit modification; permit # MO

Construction Permit # _____
Expiration Date June 19, 2013
Reason: _____

1.1 Is the appropriate fee included with the application? (See instructions for appropriate fee) YES NO

2. FACILITY

NAME George's Processing, Cassville Processing Plant		TELEPHONE WITH AREA CODE (417) 442-3500	
		FAX (417) 442-3910	
ADDRESS (PHYSICAL) 9066 State Hwy W	CITY Cassville	STATE MO	ZIP CODE 65625

3. OWNER

NAME George's Processing		E-MAIL ADDRESS carl.george@georgesinc.com	TELEPHONE WITH AREA CODE (479) 927-7000
		FAX (479) 927-7200	
ADDRESS (MAILING) P.O. Box G	CITY Springdale	STATE AR	ZIP CODE 72765-2030

3.1 Request review of draft permit prior to public notice? YES NO

4. CONTINUING AUTHORITY

NAME Same as Owner		TELEPHONE WITH AREA CODE	
		FAX	
ADDRESS (MAILING)	CITY	STATE	ZIP CODE

5. OPERATOR

NAME Randy McFarland		CERTIFICATE NUMBER	TELEPHONE WITH AREA CODE (417) 442-0242
		FAX (417) 442-3910	
ADDRESS (MAILING) 9066 State Hwy W	CITY Cassville	STATE MO	ZIP CODE 65625

6. FACILITY CONTACT

NAME Tom Giovannini		TITLE Plant Manager	TELEPHONE WITH AREA CODE (417) 442-3500
		FAX (417) 442-3910	

7. ADDITIONAL FACILITY INFORMATION

7.1 Legal Description of Outfalls. (Attach additional sheets if necessary.) See Attached

001 _____ 1/4 _____ 1/4 Sec _____ T _____ R _____ County _____
UTM Coordinates Easting (X): _____ Northing (Y): _____
For Universal Transverse Mercator (UTM), Zone 15 North referenced to North American Datum 1983 (NAD83)

002 _____ 1/4 _____ 1/4 Sec _____ T _____ R _____ County _____
UTM Coordinates Easting (X): _____ Northing (Y): _____

003 _____ 1/4 _____ 1/4 Sec _____ T _____ R _____ County _____
UTM Coordinates Easting (X): _____ Northing (Y): _____

004 _____ 1/4 _____ 1/4 Sec _____ T _____ R _____ County _____
UTM Coordinates Easting (X): _____ Northing (Y): _____

7.2 Primary Standard Industrial Classification (SIC) and Facility North American Industrial Classification System (NAICS) Codes.

001 - SIC 2015 and NAICS 311615 002 - SIC _____ and NAICS _____
003 - SIC _____ and NAICS _____ 004 - SIC _____ and NAICS _____

Attachment to Form A, Section 7.1; and Form C, Sections 2.10 and 2.20
Legal Description of Outfalls

Outfall No. 001 - Poultry Processing Plant land application system, including storage basins and irrigation sites.

Emergency Discharge from East Storage Basin -

NW1/4, SE1/4, Sec. 35, T24N, R28W, Barry County
Receiving Stream – Tributary to Pogue Creek.

Irrigation Site North of Hwy. W -

E1/2, E1/2, Sec. 34, T24N, R28W, Barry County;
All of Sec. 35, T24N, R28W, Barry County
Receiving Stream – Tributary to Pogue Creek

Irrigation Site South of Hwy. W and North of Farm Road 2140 -

SE1/4, NW1/4, Sec. 01, T23N, R28W, Barry County
W1/2, SW1/4, Sec.01, T23N, R28W, Barry County
N1/2, SW1/4, Sec. 02, T23N, R28W, Barry County
E1/2, SE1/4, Sec. 02, T23N, R28W, Barry County
E1/2, NE1/4, Sec. 03, T23N, R28W, Barry County
NE1/4, SE1/4, Sec. 03, T23N, R28W, Barry County
Receiving Stream – Tributary to Pogue Creek

Irrigation Site South of Farm Road 2140 -

E1/2, NE1/4, Sec. 10, T23N, R28W, Barry County
NW1/4, Sec. 11, T23N, R28W, Barry County
W1/2, NW1/4, NE1/4, Sec. 11, T23N, R28W, Barry County
SW1/4, NE1/4, Sec. 11, T23N, R28W, Barry County
NW1/4, SE1/4, Sec. 11, T23N, R28W, Barry County
NE1/4, SW1/4, Sec. 11, T23N, R28W, Barry County
Receiving Stream – Tributary to Woodward Creek

Outfall No. 002 – Inadvertent discharge to ditch leaving the property for the irrigation sites north of Hwy. W.

SE1/4, SE1/4, Sec. 34, T24N, R28W, Barry County
Receiving Stream – Pogue Creek

Outfall No. 003 – Inadvertent discharge to ditch leaving the property for the irrigation sites generally south of Farm Road 2140.

NE1/4, NE1/4, Sec. 10, T23N, R28W, Barry County
Receiving Stream – Woodward Creek

Outfall No. 008 – Upstream stormwater monitoring of tributary to Pogue Creek as water enters George's Inc. property.

NE1/4, SW1/4, Sec. 02, T23N, R28W, Barry County
Receiving Stream – Pogue Creek

Outfall No. 009 – Stormwater runoff monitoring as stormwater leaves George's Inc. property north of Hwy. W.

SE1/4, SE1/4, Sec. 34, T24N, R28W, Barry County
Receiving Stream – Pogue Creek

Outfall No. 010 – Stormwater runoff monitoring as stormwater leaves George's Inc. property south of Farm Road 2140.

NE1/4, NE1/4, Sec. 10, T23N, R28W, Barry County
Receiving Stream – Woodward Creek

Outfall No. 011 – Stormwater runoff monitoring as stormwater leaves George's Inc. property generally south of Hwy. W and north of Farm Road 2140.

NE1/4, NE1/4, Sec. 03, T23N, R28W, Barry County
Receiving Stream – Tributary to Pogue Creek

Outfall No. 012 – Inadvertent discharge to ditch leaving the property for the irrigation sites generally south of Hwy. W and north of Farm Road 2140.

NE1/4, NE1/4, Sec. 03, T23N, R28W, Barry County
Receiving Stream – Tributary to Pogue Creek

8. ADDITIONAL FORMS AND MAPS NECESSARY TO COMPLETE THIS APPLICATION (Complete all forms that are applicable.)			
A.	Is your facility a manufacturing, commercial, mining or silviculture waste treatment facility? If yes, complete Form C (unless storm water only, then complete U.S. Environmental Protection Agency Form 2F per Item C below).	YES <input checked="" type="checkbox"/>	NO <input type="checkbox"/>
B.	Is your facility considered a "Primary Industry" under EPA guidelines: If yes, complete Forms C and D.	YES <input type="checkbox"/>	NO <input checked="" type="checkbox"/>
C.	Is application for storm water discharges only? If yes, complete EPA Form 2F.	YES <input type="checkbox"/>	NO <input checked="" type="checkbox"/>
D.	Attach a map showing all outfalls and the receiving stream at 1" = 2,000' scale.		
E.	Is wastewater land applied? If yes, complete Form I.	YES <input checked="" type="checkbox"/>	NO <input type="checkbox"/>
F.	Is sludge, biosolids, ash or residuals generated, treated, stored or land applied? If yes, complete Form R.	YES <input type="checkbox"/>	NO <input checked="" type="checkbox"/>
9. DOWNSTREAM LANDOWNER(S) Attach additional sheets as necessary. See Instructions. (PLEASE SHOW LOCATION ON MAP. SEE 8.D ABOVE).			
NAME 1) Carl G. and Eunice Sapp (Woodward Creek Drainageway) 2) Ann M. Taggart (Pogue Creek Drainageway)			
ADDRESS 1) 6289 F.R. 2142 2) 7152 State Hwy W		CITY 1) Exeter 2) Cassville	STATE ZIP CODE 1) MO 1) 65647 2) MO 2) 65625
10. 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 to the Missouri Clean Water Commission.			
NAME AND OFFICIAL TITLE (TYPE OR PRINT) Tom Giovannini			TELEPHONE WITH AREA CODE (417) 442-3500
SIGNATURE 			DATE SIGNED 2 Aug 2012

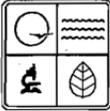
MO 780-1479 (01-09)

BEFORE MAILING, PLEASE ENSURE ALL SECTIONS ARE COMPLETED AND ADDITIONAL FORMS, IF APPLICABLE, ARE INCLUDED.

Submittal of an incomplete application may result in the application being returned.

HAVE YOU INCLUDED:

- Appropriate Fees?
- Map at 1" = 2000' scale?
- Signature?
- Form C, if applicable?
- Form D, if applicable?
- Form 2F, if applicable?
- Form I (Irrigation), if applicable?
- Form R (Sludge), if applicable?



MISSOURI DEPARTMENT OF NATURAL RESOURCES
WATER PROTECTION PROGRAM, WATER POLLUTION BRANCH
(SEE MAP FOR APPROPRIATE REGIONAL OFFICE)
**FORM C – APPLICATION FOR DISCHARGE PERMIT – MANUFACTURING,
COMMERCIAL, MINING AND SILVICULTURE OPERATIONS**

AUG - 8 2012

FOR AGENCY USE ONLY	
CHECK NO.	
DATE RECEIVED	FEE SUBMITTED

NOTE: DO NOT ATTEMPT TO COMPLETE THIS FORM BEFORE READING THE ACCOMPANYING INSTRUCTIONS

1.00 NAME OF FACILITY
George's Processing, Cassville Processing Plant

1.10 THIS FACILITY IS NOW IN OPERATION UNDER MISSOURI OPERATING PERMIT NUMBER
MO 0108618

1.20 THIS IS A NEW FACILITY AND WAS CONSTRUCTED UNDER MISSOURI CONSTRUCTION PERMIT NUMBER (COMPLETE ONLY IF THIS FACILITY DOES NOT HAVE AN OPERATING PERMIT).
N/A

2.00 LIST THE STANDARD INDUSTRIAL CLASSIFICATION (SIC) CODES APPLICABLE TO YOUR FACILITY (FOUR DIGIT CODE)
A. FIRST 2015 B. SECOND _____
C. THIRD _____ D. FOURTH _____

2.10 FOR EACH OUTFALL GIVE THE LEGAL DESCRIPTION.
OUTFALL NUMBER (LIST) _____ ¼ _____ ¼ SEC _____ T _____ R _____ County _____
See attached for stormwater, irrigation site, and lagoon emergency outfalls.

2.20 FOR EACH OUTFALL LIST THE NAME OF THE RECEIVING WATER.
OUTFALL NUMBER (LIST) _____ RECEIVING WATER _____
See attached.

2.30 BRIEFLY DESCRIBE THE NATURE OF YOUR BUSINESS:
Chicken Slaughtering & Processing Plant, Chicken Hatchery, and Feedmill.

Attachment to Form A, Section 7.1; and Form C, Sections 2.10 and 2.20
Legal Description of Outfalls

Outfall No. 001 - Poultry Processing Plant land application system, including storage basins and irrigation sites.

Emergency Discharge from East Storage Basin -

NW1/4, SE1/4, Sec. 35, T24N, R28W, Barry County
Receiving Stream – Tributary to Pogue Creek.

Irrigation Site North of Hwy. W -

E1/2, E1/2, Sec. 34, T24N, R28W, Barry County;
All of Sec. 35, T24N, R28W, Barry County
Receiving Stream – Tributary to Pogue Creek

Irrigation Site South of Hwy. W and North of Farm Road 2140 -

SE1/4, NW1/4, Sec. 01, T23N, R28W, Barry County
W1/2, SW1/4, Sec.01, T23N, R28W, Barry County
N1/2, SW1/4, Sec. 02, T23N, R28W, Barry County
E1/2, SE1/4, Sec. 02, T23N, R28W, Barry County
E1/2, NE1/4, Sec. 03, T23N, R28W, Barry County
NE1/4, SE1/4, Sec. 03, T23N, R28W, Barry County
Receiving Stream – Tributary to Pogue Creek

Irrigation Site South of Farm Road 2140 -

E1/2, NE1/4, Sec. 10, T23N, R28W, Barry County
NW1/4, Sec. 11, T23N, R28W, Barry County
W1/2, NW1/4, NE1/4, Sec. 11, T23N, R28W, Barry County
SW1/4, NE1/4, Sec. 11, T23N, R28W, Barry County
NW1/4, SE1/4, Sec. 11, T23N, R28W, Barry County
NE1/4, SW1/4, Sec. 11, T23N, R28W, Barry County
Receiving Stream – Tributary to Woodward Creek

Outfall No. 002 – Inadvertent discharge to ditch leaving the property for the irrigation sites north of Hwy. W.

SE1/4, SE1/4, Sec. 34, T24N, R28W, Barry County
Receiving Stream – Pogue Creek

Outfall No. 003 – Inadvertent discharge to ditch leaving the property for the irrigation sites generally south of Farm Road 2140.

NE1/4, NE1/4, Sec. 10, T23N, R28W, Barry County
Receiving Stream – Woodward Creek

Outfall No. 008 – Upstream stormwater monitoring of tributary to Pogue Creek as water enters George's Inc. property.

NE1/4, SW1/4, Sec. 02, T23N, R28W, Barry County
Receiving Stream – Pogue Creek

Outfall No. 009 – Stormwater runoff monitoring as stormwater leaves George's Inc. property north of Hwy. W.

SE1/4, SE1/4, Sec. 34, T24N, R28W, Barry County
Receiving Stream – Pogue Creek

Outfall No. 010 – Stormwater runoff monitoring as stormwater leaves George's Inc. property south of Farm Road 2140.

NE1/4, NE1/4, Sec. 10, T23N, R28W, Barry County
Receiving Stream – Woodward Creek

Outfall No. 011 – Stormwater runoff monitoring as stormwater leaves George's Inc. property generally south of Hwy. W and north of Farm Road 2140.

NE1/4, NE1/4, Sec. 03, T23N, R28W, Barry County
Receiving Stream – Tributary to Pogue Creek

Outfall No. 012 – Inadvertent discharge to ditch leaving the property for the irrigation sites generally south of Hwy. W and north of Farm Road 2140.

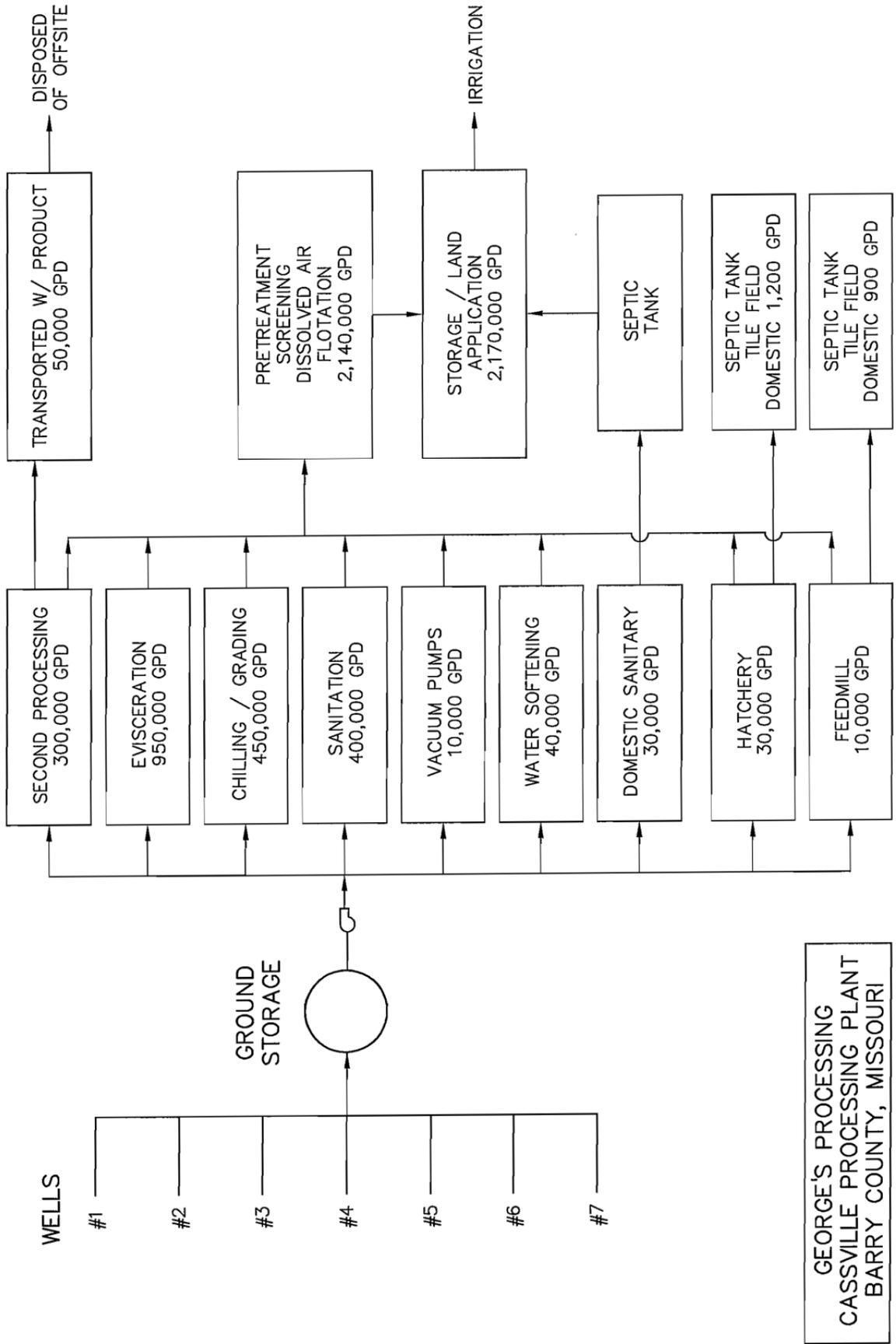
NE1/4, NE1/4, Sec. 03, T23N, R28W, Barry County
Receiving Stream – Tributary to Pogue Creek

ATTACHMENT TO FORM C, 2.40 A WATER BALANCE SCHEMATIC

WATER SUPPLY

WATER DEMANDS

DISPOSAL



GEORGE'S PROCESSING
CASSVILLE PROCESSING PLANT
BARRY COUNTY, MISSOURI

2.40 CONTINUED

C. EXCEPT FOR STORM RUNOFF, LEAKS, OR SPILLS, ARE ANY OF THE DISCHARGES DESCRIBED IN ITEMS A OR B INTERMITTENT OR SEASONAL?
 YES (COMPLETE THE FOLLOWING TABLE) NO (GO TO SECTION 2.50)

1. OUTFALL NUMBER <i>(list)</i>	2. OPERATION(S) CONTRIBUTING FLOW <i>(list)</i>	3. FREQUENCY		4. FLOW				
		A. DAYS PER WEEK <i>(specify average)</i>	B. MONTHS PER YEAR <i>(specify average)</i>	A. FLOW RATE <i>(in mgd)</i>		B. TOTAL VOLUME <i>(specify with units)</i>		C. DURATION <i>(in days)</i>
				1. LONG TERM AVERAGE	2. MAXIMUM DAILY	4. LONG TERM DAILY	3. MAXIMUM AVERAGE	

2.50 MAXIMUM PRODUCTION

- A. DOES AN EFFLUENT GUIDELINE LIMITATION PROMULGATED BY EPA UNDER SECTION 304 OF THE CLEAN WATER ACT APPLY TO YOUR FACILITY?
 YES (COMPLETE B.) NO (GO TO SECTION 2.60)
- B. ARE THE LIMITATIONS IN THE APPLICABLE EFFLUENT GUIDELINE EXPRESSED IN TERMS OF PRODUCTION (OR OTHER MEASURE OF OPERATION)?
 YES (COMPLETE C.) NO (GO TO SECTION 2.60)
- C. IF YOU ANSWERED "YES" TO B. LIST THE QUANTITY THAT REPRESENTS AN ACTUAL MEASUREMENT OF YOUR MAXIMUM LEVEL OF PRODUCTION, EXPRESSED IN THE TERMS AND UNITS USED IN THE APPLICABLE EFFLUENT GUIDELINE AND INDICATE THE AFFECTED OUTFALLS.

1. MAXIMUM QUANTITY			2. AFFECTED OUTFALLS <i>(list outfall numbers)</i>
A. QUANTITY PER DAY	B. UNITS OF MEASURE	C. OPERATION, PRODUCT, MATERIAL, ETC. <i>(specify)</i>	

2.60 IMPROVEMENTS

- A. ARE YOU NOW REQUIRED BY ANY FEDERAL, STATE OR LOCAL AUTHORITY TO MEET ANY IMPLEMENTATION SCHEDULE FOR THE CONSTRUCTION, UPGRADING OR OPERATION OF WASTEWATER TREATMENT EQUIPMENT OR PRACTICES OR ANY OTHER ENVIRONMENTAL PROGRAMS THAT MAY AFFECT THE DISCHARGES DESCRIBED IN THIS APPLICATION? THIS INCLUDES, BUT IS NOT LIMITED TO, PERMIT CONDITIONS, ADMINISTRATIVE OR ENFORCEMENT ORDERS, ENFORCEMENT COMPLIANCE SCHEDULE LETTERS, STIPULATIONS, COURT ORDERS AND GRANT OR LOAN CONDITIONS.
 YES (COMPLETE THE FOLLOWING TABLE) NO (GO TO 3.00)

1. IDENTIFICATION OF CONDITION, AGREEMENT, ETC.	2. AFFECTED OUTFALLS		3. BRIEF DESCRIPTION OF PROJECT	4. FINAL COMPLIANCE DATE	
				A. REQUIRED	B. PROJECTED

- B. OPTIONAL: YOU MAY ATTACH ADDITIONAL SHEETS DESCRIBING ANY ADDITIONAL WATER POLLUTION CONTROL PROGRAMS (OR OTHER ENVIRONMENTAL PROJECTS WHICH MAY AFFECT YOUR DISCHARGES) YOU NOW HAVE UNDER WAY OR WHICH YOU PLAN. INDICATE WHETHER EACH PROGRAM IS NOW UNDER WAY OR PLANNED, AND INDICATE YOUR ACTUAL OR PLANNED SCHEDULES FOR CONSTRUCTION.
 MARK "X" IF DESCRIPTION OF ADDITIONAL CONTROL PROGRAMS IS ATTACHED.

3.10 BIOLOGICAL TOXICITY TESTING DATA

DO YOU HAVE ANY KNOWLEDGE OR REASON TO BELIEVE THAT ANY BIOLOGICAL TEST FOR ACUTE OR CHRONIC TOXICITY HAS BEEN MADE ON ANY OF YOUR DISCHARGES OR ON A RECEIVING WATER IN RELATION TO YOUR DISCHARGE WITHIN THE LAST THREE YEARS?

YES (IDENTIFY THE TEST(S) AND DESCRIBE THEIR PURPOSES BELOW) NO (GO TO 3.20)

3.20 CONTRACT ANALYSIS INFORMATION

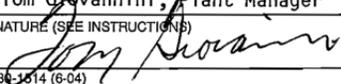
WERE ANY OF THE ANALYSES REPORTED PERFORMED BY A CONTRACT LABORATORY OR CONSULTING FIRM?

YES (LIST THE NAME, ADDRESS AND TELEPHONE NUMBER OF AND POLLUTANTS ANALYZED BY EACH SUCH LABORATORY OR FIRM BELOW) NO (GO TO 3.30)

A. NAME	B. ADDRESS	C. TELEPHONE (area code and number)	D. POLLUTANTS ANALYZED (list)
Environmental Testing Group, Inc.	1702 E. Central Avenue Bentonville, AR 72712-5524	479.271.7996	BOD, NH ₃ , TKN, O&G, P, TSS, NO ₃

3.30 CERTIFICATION

I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED IN THIS APPLICATION AND ALL ATTACHMENTS AND THAT, BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION, I BELIEVE THAT THE INFORMATION IS TRUE, ACCURATE AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT.

NAME AND OFFICIAL TITLE (TYPE OR PRINT) Tom Giovannini, Plant Manager	TELEPHONE NUMBER (AREA CODE AND NUMBER) (417) 442-3500
SIGNATURE (SEE INSTRUCTIONS) 	DATE SIGNED 29 Oct 2012

FORM C
TABLE 1 FOR 3.00 ITEM A AND B

PLEASE PRINT OR TYPE. You may report some or all of this information on separate sheets (use the same format) instead of completing these pages.
SEE INSTRUCTIONS.

1. POLLUTANT	A. MAXIMUM DAILY VALUE		B. MAXIMUM 30 DAY VALUE <i>(if available)</i>		C. LONG TERM AVRG. VALUE <i>(if available)</i>		D. NO. OF ANALYSES	3. UNITS <i>(specify if blank)</i>		4. INTAKE <i>(optional)</i>		B. NO. OF ANALYSES
	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS		A. CONCENTRATION	B. MASS	A. LONG TERM AVRG. VALUE (1) CONCENTRATION	(2) MASS	
A. Biochemical Oxygen Demand (BOD)	410	8,207	259	5184	166	3046	52	mg/l	lbs.			
B. Chemical Oxygen Demand (COD)	1203	24,079					3	mg/l	lbs.			
C. Total Organic Carbon (TOC)	600	12,010					3	mg/l	lbs.			
D. Total Suspended Solids (TSS)	410	8,207	237	4744	146	2679	52	mg/l	lbs.			
E. Ammonia (as N)	55.5	1111	45.4	909	31.1	571	52	mg/l	lbs.			
F. Flow	VALUE	2.4	VALUE		VALUE	2.2 (workday)		mgd	----	VALUE		
G. Temperature (winter)	VALUE		VALUE		VALUE					VALUE		
H. Temperature (summer)	VALUE		VALUE		VALUE					VALUE		
I. pH	MINIMUM	6.8	MINIMUM		VALUE					VALUE		
			MAXIMUM	8.5	MAXIMUM							

PART A - You must provide the results of at least one analysis for every pollutant in this table. Complete one table for each outfall. See instructions for additional details.

PART B - Mark "X" in column 2-a for each pollutant you know or have reason to believe is present. Mark "X" in column 2-b for each pollutant you believe to be absent. If you mark column 2-a for any pollutant, you must provide the results of at least one analysis for that pollutant. Complete one table for each outfall. See the instructions for additional details and requirements.

1. POLLUTANT AND CAS NUMBER <i>(if available)</i>	2. MARK "X"		3. EFFLUENT		3. EFFLUENT		3. EFFLUENT		3. EFFLUENT		4. UNITS		D. NO. OF ANALYSES	A. CONCENTRATION	B. MASS
	A. BE- LIEVED PRE-SENT	B. BE- LIEVED NOT PRE-SENT	A. MAXIMUM DAILY VALUE (1) CONCENTRATION	(2) MASS	B. MAXIMUM 30 DAY VALUE <i>(if available)</i>	(1) CONCENTRATION	(2) MASS	C. LONG TERM AVRG. VALUE <i>(if available)</i>	(1) CONCENTRATION	(2) MASS	A. CONCENTRATION	B. MASS			
A. Bromide (24959-67-9)		X	0.200	-----							mg/l		3		
B. Chlorine Total Residual		X	0.500	-----							mg/l		3		
C. Color	X		115	-----							mg/l		3		
D. Fecal Coliform	X		540,000	-----							mg/l	#/100 ml	3		
E. Fluoride (16984-46-6)		X	0.100	-----							mg/l		3		
F. Nitrate-Nitrite (as N)	X		20.0	400	12.6	.253	2.7	50			mg/l	1bs.	52		

CONTINUED FROM FRONT

1. POLLUTANT AND CAS NUMBER (if available)	2. MARK "X": A. BE USED PRE-SENT B. BE USED AB-SENT		3. EFFLUENT				4. UNITS			5. INTAKE (optional)		B. NO. OF ANAL-YSES
	A. MAXIMUM DAILY VALUE (1) CONCENTRATION	(2) MASS	B. MAXIMUM 30 DAY VALUE (1) CONCENTRATION	(2) MASS	C. LONG TERM AVRG. VALUE (1) CONCENTRATION	(2) MASS	D. NO. OF ANAL-YSES	A. CONCENTRATION	B. MASS	A. LONG TERM AVRG. VALUE (1) CONCENTRATION	(2) MASS	
G. Nitrogen Total Organic (as N)	x		48.9	979	27.6	552	52	mg/l	1bs.			
H. Oil and Grease	x		32.1	643	15.6	312	52	mg/l	1bs.			
I. Phosphorus (as P) Total (7723-14-0)	x		20.6	412	19.7	394	52	mg/l	1bs.			
J. RADIOACTIVITY												
(1) Alpha Total			3.3±4.8				3	pCi/l				
(2) Beta Total			2.6±8.2				3	pCi/l				
(3) Radium Total			0.28±1.7				3	pCi/l				
(4) Radium 226 Total			3.6± 0.80				3	pCi/l				
K. Sulfate (as SO ₄) (14808-79-8)			24.10				3	mg/l	1bs.			
L. Sulfide (as S)			6.56				3	mg/l	1bs.			
M. Sulfite (as SO ₃) (14265-45-3)			1.88				3	mg/l	1bs.			
N. Surfactants			0.040				3	mg/l	1bs.			
O. Aluminum Total (7429-90-5)			0.2				3	mg/l	1bs.			
P. Barium Total (7440-39-3)			0.2825				3	mg/l	1bs.			
Q. Boron Total (7440-42-8)			0.3120				3	mg/l	1bs.			
R. Cobalt Total (7440-48-4)			0.0200				3	mg/l	1bs.			
S. Iron total (7439-89-6)			0.44				3	mg/l	1bs.			
T. Magnesium Total (7439-95-4)			20.50				3	mg/l	1bs.			
U. Molybdenum Total (7439-98-7)			0.1				3	mg/l	1bs.			
V. Manganese Total (7439-96-5)			0.04				3	mg/l	1bs.			
W. Tin Total (7440-31-5)			0.500				3	mg/l	1bs.			
X. Titanium Total (7440-32-6)			1.000				3	mg/l	1bs.			

AUG - 8 2012



MISSOURI DEPARTMENT OF NATURAL RESOURCES
WATER PROTECTION PROGRAM, WATER POLLUTION BRANCH
(SEE MAP FOR APPROPRIATE REGIONAL OFFICE)
**FORM I - PERMIT APPLICATION FOR CONSTRUCTION AND
OPERATION OF WASTEWATER IRRIGATION SYSTEMS**

FOR AGENCY USE ONLY

PERMIT NUMBER
MO -
DATE RECEIVED

INSTRUCTIONS: The following forms must be submitted with Form I: FORM B for domestic wastewater. Submit FORMS E and G for land disturbance permit if construction areas total one acre or more.

1.00 FACILITY INFORMATION

1.10 Facility Name

George's Processing, Cassville Processing Plant

1.20 Application for: Construction Permit (attach Engineering report, Plans and Specifications per 10 CSR 20-8)
 Operating Permit (if no construction permit, attach engineering documents)
Date Irrigation System Began Operation: _____
 Operating Permit Renewal

1.30 Type of wastewater to be irrigated: Domestic Municipal State/National Park Seasonal business
 Municipal with Pretreatment Program or Significant Industrial Users Other (explain) Poultry Processing
SIC Codes (list all that apply, in order of importance) 2015

1.40 Months when the business or enterprise will operate or generate wastewater:
 12 months per year Part of year (list Months): _____

1.50 This system is designed for:
 No-discharge Partial irrigation when feasible and discharge rest of time.
 Irrigation during recreation season (April - October) and discharge during November - March.
 Other (explain) _____

1.60 List the Facility outfalls which will be applicable to the irrigation system from outfalls listed on Form B.
Outfall Nos. Non-Discharging System _____

2.00 STORAGE BASINS

2.10 Number of storage basins: 4 Type of basin: Steel Concrete Fiberglass Earthen
 Earthen with membrane liner

2.20 Storage basin dimensions at inside top of berm (feet): Report freeboard as feet from top of berm to emergency spillway or overflow pipe.

(Complete Attachment A: Profile Sketch)

E. Basin #1:	Length <u>440</u>	Width <u>210</u>	Depth <u>23</u>	Freeboard <u>2.0</u>	Berm Width <u>10</u>	% Slope <u>33</u>
E. Basin #2:	Length <u>520</u>	Width <u>340</u>	Depth <u>23</u>	Freeboard <u>2.0</u>	Berm Width <u>10</u>	% Slope <u>33</u>

2.30 Storage Basin operating levels (report as feet below emergency overflow level)
E. Basin #1: Maximum water level 0 ft. Minimum operating water level 21 ft.
E. Basin #2: Maximum water level 0 ft. Minimum operating water level 21 ft.

2.40 Depth of sludge in lagoons and storage basins 0 ft.
Total sludge stored 0 dry tons 0 cu. ft.

3.00 LAND APPLICATION SYSTEM

3.10 Number of irrigation sites 33 Total Acres 1270 Maximum % field slopes 8%
Location: 1/4, 1/4, 1/4, 10, 11 Sec. 23N T 28W R Barry County 767 Acres
Location: 1/4, 1/4, 1/4, 34, 35 Sec. 24N T 28W R Barry County 503 Acres
See attached map.

2.00 STORAGE BASINS												
2.10	Number of storage basins:	<u>4</u>	Type of basin:	<input type="checkbox"/> Steel	<input type="checkbox"/> Concrete	<input type="checkbox"/> Fiberglass	<input type="checkbox"/> Earthen					
				<input checked="" type="checkbox"/> Earthen with membrane liner								
2.20	Storage basin dimensions at inside top of berm (feet): Report freeboard as feet from top of berm to emergency spillway or overflow pipe. (Complete Attachment A: Profile Sketch)											
W. Basin # 3	Length	<u>440</u>	Width	<u>280</u>	Depth	<u>23</u>	Freeboard	<u>2.0</u>	Berm Width	<u>10</u>	% Slope	<u>33</u>
W. Basin # 4	Length	<u>730</u>	Width	<u>360</u>	Depth	<u>23</u>	Freeboard	<u>2.0</u>	Berm Width	<u>10</u>	% Slope	<u>33</u>
2.30	Storage Basin operating levels (report as feet below emergency overflow level)											
W. Basin # 3	Maximum water level	<u>0</u>	ft.	Minimum operating water level	<u>21</u>	ft.						
W. Basin # 4	Maximum water level	<u>0</u>	ft.	Minimum operating water level	<u>21</u>	ft.						
2.40	Depth of sludge in lagoons and storage basins <u>0</u> ft.											
	Total sludge stored <u>0</u> dry tons <u>0</u> cu. ft.											

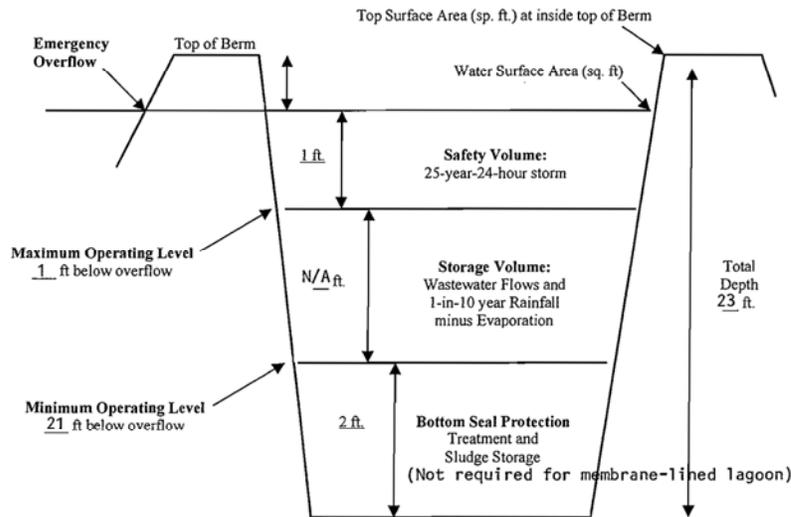
3.11 Type of vegetation: <input checked="" type="checkbox"/> Grass hay <input type="checkbox"/> Pasture <input type="checkbox"/> Timber <input type="checkbox"/> Row crops <input type="checkbox"/> Other (describe) _____	
3.20 Wastewater flow (dry weather) gallons/day: Average annual: <u>730</u> m.g. Seasonal <u>N/A</u> Off-season <u>N/A</u> Months of seasonal flow: <u>N/A</u> Human Population Equivalent: <u>25,000</u>	
3.21 Land Application rate per acre (design flow including 1 in 10 year storm water flows): Design: <u>22</u> inches/year <u>0.1-0.33</u> inches/hour <u>0-0.4</u> inches/day <u>0-3.0</u> inches/week Actual: <u>16</u> inches/year <u>0.1-0.33</u> inches/hour <u>0-0.4</u> inches/day <u>0-3.0</u> inches/week Total Irrigation per year (gallons): <u>730</u> m.g. Design <u>550</u> m.g. Actual Actual months used for Irrigation (check): <input checked="" type="checkbox"/> Jan <input checked="" type="checkbox"/> Feb <input checked="" type="checkbox"/> Mar <input checked="" type="checkbox"/> Apr <input checked="" type="checkbox"/> May <input checked="" type="checkbox"/> Jun <input checked="" type="checkbox"/> Jul <input checked="" type="checkbox"/> Aug <input checked="" type="checkbox"/> Sep <input checked="" type="checkbox"/> Oct <input checked="" type="checkbox"/> Nov <input checked="" type="checkbox"/> Dec	
3.22 Land Application Rate is based on: <input type="checkbox"/> Nutrient Management Plan (N&P) <input checked="" type="checkbox"/> Hydraulic Loading <input checked="" type="checkbox"/> Other (describe) <u>PAN</u>	
3.30 Equipment type: <input checked="" type="checkbox"/> Sprinklers <input type="checkbox"/> Gated pipe <input checked="" type="checkbox"/> Center pivot <input checked="" type="checkbox"/> Traveling gun <input type="checkbox"/> Other (describe) _____ Equipment Flow Capacity: <u>600,000</u> Gallons per hour <u>1900</u> Total hours of operation per year	
3.40 Public Access Restrictions for irrigation sites: <input type="checkbox"/> Site is Fenced <input checked="" type="checkbox"/> Wastewater disinfection prior to irrigation <input type="checkbox"/> Other (describe): <u>Warning signs posted.</u>	
3.50 Separation distance (in feet) from the outside edge of the wetted irrigation area to down gradient features: <u>7500</u> Permanent flowing stream <u>300</u> Losing Stream <u>N/A</u> Intermittent (wet weather) stream <u>N/A</u> Lake or pond <u>50</u> Property boundary <u>>150</u> Dwellings <u>300</u> Water supply well <u>N/A</u> Other (describe) <u>N/A</u>	
3.60 SOILS INFORMATION: Use information from the County Soil Survey, NRCS, or professional soil scientist. Soil Series Name <u>Scholten-^{Scholtens} Ionti</u> Depth of bedrock <u>30-65</u> Feet Depth of water table <u>10-90</u> Feet Soil Infiltration rate in inches/hour (in/hr) for most restrictive layer within the following soil depth ranges: <u>2.0-6.0</u> In/hr for 0-12 in soil depth <u>0.6-2.0</u> In/hr for 12-24 inch soil depth <u>< 0.06</u> In/hr for 24-60 inch soil depth	
3.70 Include a recent Geologic Report by the Department's Geological Survey and Resource Assessment Division with your construction permit. <u>N/A</u>	
3.80 Attach a current copy of the Operation and Maintenance (O&M) Plan for the irrigation system. Date of O&M Plan: <u>2010</u>	
3.81 Attach a site map showing topography, storage basins, irrigation sites, property boundary, streams, wells, roads, dwellings and other pertinent features. <u>Attached</u>	
3.82 Attach a facility sketch showing treatment units, storage basins, pipelines, irrigation equipment, application sites and other features. <u>Attached</u>	
4.00 CERTIFICATION I certify under penalty of law that I have personally examined and am familiar with the information submitted in this application and all attachments and that based on my inquiry of those individuals immediately responsible for obtaining this information, I believe that the information is true, accurate and complete. I am aware that there are significant penalties for submitting false information including the possibility of fine or imprisonment.	
CONSULTING ENGINEER – Name, Official Title and Engineering Firm (TYPE OR PRINT) <u>Dean A. Willis, President Allgeier, Martin and Associates, Inc.</u>	TELEPHONE NUMBER (area code and number) <u>(417) 680-7200</u>
SIGNATURE <u>Dean A. Willis P.E.</u>	DATE SIGNED <u>07-19-2012</u>
OWNER OR AUTHORIZED REPRESENTATIVE – Name and Official Title (TYPE OR PRINT) <u>Tom Giovannini, Plant Manager</u>	TELEPHONE NUMBER (area code and number) <u>(417) 442-3500</u>
SIGNATURE <u>Tom Giovannini</u>	DATE SIGNED <u>2 AUG 2012</u>

ATTACHMENT A

(To be included with Form I)

**All Four Lagoons
Lagoon or Storage Basin
PROFILE SKETCH**

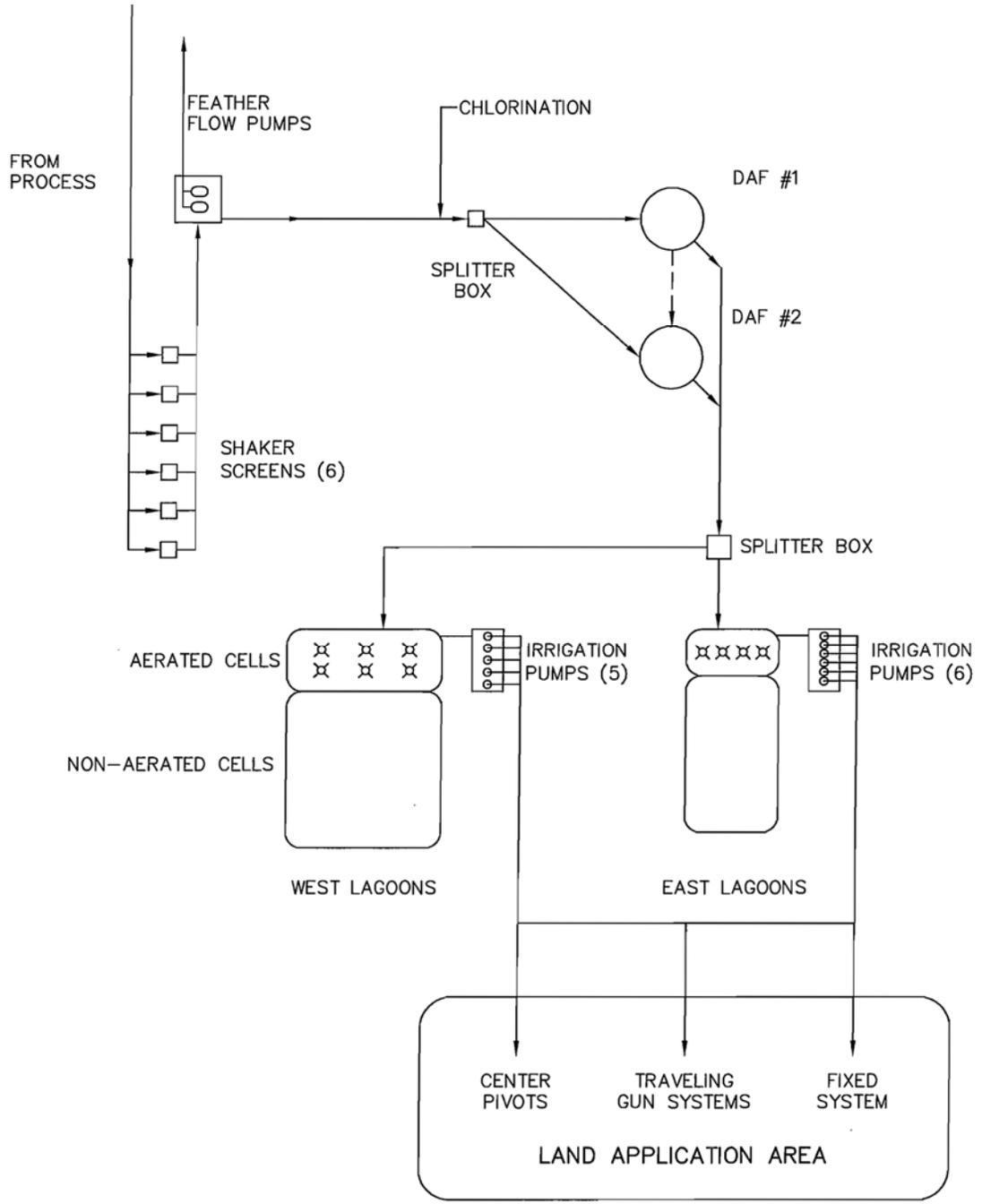
E. Basin #1 - 89,000
E. Basin #2 - 168,000
W. Basin #3 - 117,000
W. Basin #4 - 252,000



DEFINITION OF TERMS (REFER TO THE PROFILE SKETCH ABOVE).

- a. Freeboard is depth from top of berm to emergency spillway (minimum 1 foot);
- b. Safety Volume is depth for 25-year, 24-hour storm (minimum of 1 foot);
- c. Maximum Operating Level is at bottom of the safety volume (minimum of 2 feet below top of berm).
- d. Minimum Operating Level is 2 feet above bottom of lagoon for seal protection per 10 CSR 20-8.
The minimum operating level may be greater than 2 feet when additional treatment volume is included.
- e. Storage Volume and days storage are based on the volume between Minimum and Maximum Operating Levels.
- f. Total Depth is from top of berm to bottom of basin including freeboard.

ATTACHMENT TO FORM I, SECTION 3.82 WASTEWATER TREATMENT FACILITIES



ALLGEIER, MARTIN and ASSOCIATES, INC.
CONSULTING ENGINEERS and SURVEYORS
www.amce.com

July 30, 2012

4-11-12

AUG - 8 2012

WATER POLLUTION CONTROL PROGRAM

Mr. Tom Giovannini, Plant Manager
George's Processing
9066 State Highway W
Cassville, MO 65625

Re: Cassville MSOP
George's, Inc.

Dear Tom:

I have enclosed three copies each of Forms A, C, and I, the application forms required by MDNR for renewal of the Missouri State Operating Permit for the wastewater system at George's, Inc's., Cassville processing plant.

Please fully execute all copies of each form, and send one executed copy of each form to MDNR's Alan Moreau at Missouri Department of Natural Resources, Water Pollution Control Branch, Operating Permits Section, P.O. Box 176, Jefferson City, MO 65102. Also please send me copies for my files, and keep the third copy for your files.

If you have any questions, please notify.

Very truly yours,

ALLGEIER, MARTIN AND ASSOCIATES, INC.



Dean A. Willis, P.E.
President

DAW:sd
cc/encl. Carl George



STANDARD CONDITIONS FOR NPDES PERMITS
ISSUED BY
THE MISSOURI DEPARTMENT OF NATURAL RESOURCES
MISSOURI CLEAN WATER COMMISSION
REVISED
AUGUST 1, 2014

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 or 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. **Non-compliance 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.



STANDARD CONDITIONS FOR NPDES PERMITS
ISSUED BY
THE MISSOURI DEPARTMENT OF NATURAL RESOURCES
MISSOURI CLEAN WATER COMMISSION
REVISED
AUGUST 1, 2014

- 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. **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.
 4. **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.
 5. **Other Noncompliance.** The permittee shall report all instances of noncompliance not reported under paragraphs 2, 3, and 6 of this section, at the time monitoring reports are submitted. The reports shall contain the information listed in paragraph 2. a. of this section.
 6. **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.
 7. **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.
- 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.

Section C – Bypass/Upset Requirements

1. **Definitions.**
 - a. *Bypass*: the intentional diversion of waste streams from any portion of a treatment facility, except in the case of blending.
 - 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.

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



STANDARD CONDITIONS FOR NPDES PERMITS
ISSUED BY
THE MISSOURI DEPARTMENT OF NATURAL RESOURCES
MISSOURI CLEAN WATER COMMISSION
REVISED
AUGUST 1, 2014

- 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 permittee 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.
7. **Permit Transfer.**
- a. 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.
- b. 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.
- c. 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.



STANDARD CONDITIONS FOR NPDES PERMITS
ISSUED BY
THE MISSOURI DEPARTMENT OF NATURAL RESOURCES
MISSOURI CLEAN WATER COMMISSION
REVISED
AUGUST 1, 2014

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:
 - a. 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;
 - b. Have access to and copy, at reasonable times, any records that must be kept under the conditions of this permit;
 - c. Inspect at reasonable times any facilities, equipment (including monitoring and control equipment), practices, or operations regulated or required under this permit; and
 - d. 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.**
 - a. 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.
 - b. 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.**
 - a. 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)
 - b. 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.
 - c. The Missouri Clean Water Law provides that any person who knowingly makes any false statement, representation or certification in any application, record, report, plan, or other document filed or required to be maintained pursuant to sections 644.006 to 644.141 shall, upon conviction, be punished by a fine of not more than ten thousand dollars, or by imprisonment for not more than six months, 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.