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-0136760
Owner: Address:	Kemin Industries, Inc. 2100 Maury Street, Des Moines, IA 53016
Continuing Authority: Address:	Same as above Same as above
Facility Name: Facility Address:	Kemin Industries, Inc. 519 North 3 rd Street, Verona, MO 65769
Legal Description: UTM Coordinates:	See Pages 2 - 5 See Pages 2 - 5
Receiving Stream: First Classified Stream and ID: USGS Basin & Sub-watershed No.:	See Pages 2 - 5 See Pages 2 - 5 See Pages 2 - 5
is authorized to discharge from the facility desc as set forth herein:	ribed herein, in accordance with the effluent limitations and monitoring requirements
FACILITY DESCRIPTION	
See Page 2 -5	
	ges under the Missouri Clean Water Law and the National Pollutant Discharge egulated areas. This permit may be appealed in accordance with Section 644.051.6 of
	Q, n a,

Edward B. Galbraith, Director, Division of Environmental Quality

Chris Wieberg, Director, Water Projection Program

September 1, 2018

March 31, 2023
Expiration Date

Effective Date

December 1, 2019

Modification Date

FACILITY DESCRIPTION (continued)

Facility produces ingredients for animal food from animal organs from local processing plants. SIC Code #2015. Wastewater is land applied.

Outfall #001 – Stormwater runoff. (Previously permitted under MO-0112500 as Outfall #004)

Legal Description: NW 1/4, NE 1/4, Sec. 17, T26N, R26W, Lawrence County

Latitude/Longitude: X = 429042, Y = 4091721 Receiving Stream: Tributary to Spring River

First Classified Stream and ID: Spring River (P) (03165) 303(d)

USGS Basin & Sub-watershed No.: 11070207-0101

Outfall #002 - Five concrete storage tanks and two lined aerated earthen storage basins. (Previously permitted under MO-0112500 as

Outfall #005). Wastewater is land applied and can be transferred between storage basins and tanks.

Legal Description: NW 1/4, NE 1/4, Sec. 17, T26N, R26W, Lawrence County

Latitude/Longitude: X = 429054, Y = 4091739

Stream: Tributary to Spring River

First Classified Stream and ID: Spring River (P) (03165) 303(d)

USGS Basin & Sub-watershed No.: 11070207-0101

Outfall #003 – Stormwater runoff. (Previously permitted under MO-0112500 as Outfall #006)

Legal Description: NW 1/4, NE 1/4, Sec. 17, T26N, R26W, Lawrence County

Latitude/Longitude: X = 429041, Y = 4091622 Receiving Stream: Tributary to Spring River

First Classified Stream and ID: Spring River (P) (03165) 303(d)

USGS Basin & Sub-watershed No.: 11070207-0101

Outfall #004 – Land application, Chad Kelly site.

Legal Description: NW 1/4, Sec. 8 T25N, R26W, Barry County

Latitude/Longitude: X = 428180, Y = 4083305 Receiving Stream: Tributary to Calton Creek

First Classified Stream and ID: 100K Extent-Remaining Streams (C) (3960)

USGS Basin & Sub-watershed No.: 11010002-0403

Outfall #005 – Land application, Grimm #1 site.

Legal Description: SW 1/4, NW 1/4, Sec. 4 T25N, R26W, Barry County

Latitude/Longitude: X = 429681, Y = 40884700 Receiving Stream: Tributary to Spring River

First Classified Stream and ID: 100K Extent-Remaining Streams (C) (3960) losing

USGS Basin & Sub-watershed No.: 11070207-0101

Outfall #006 – Land application, Bass site.

Legal Description: SW 1/4, NW 1/4, Sec. 32 T25N, R26W, Barry County

Latitude/Longitude: X = 437698, Y = 4086251 Receiving Stream: Tributary to Little Crane Creek

First Classified Stream and ID: 100K Extent-Remaining Streams (C) (3960)

USGS Basin & Sub-watershed No.: 11010002-0502

Outfall #007 – Land application, Gerald Seitz #1 site.

Legal Description: SW 1/4, SE 1/4, Sec. 5 T25N, R26W, Barry County

Latitude/Longitude: X = 428648, Y = 4083992 Receiving Stream: Tributary to Calton Creek

First Classified Stream and ID: 100K Extent-Remaining Streams (C) (3960)

USGS Basin & Sub-watershed No.: 11010002-0403

Outfall #008 – Land application, Gerald Seitz #2 site.

Legal Description: SE 1/4, SW 1/4, Sec. 5 T25N, R26W, Barry County

Latitude/Longitude: X = 428358, Y = 4083932 Receiving Stream: Tributary to Prairie Run Hollow

First Classified Stream and ID: 100K Extent-Remaining Streams (C) (3960)

USGS Basin & Sub-watershed No.: 11010102-0403

Outfall #009 – Land application, Gerald Seitz #3 site.

Legal Description: N 1/2, S 1/2, Sec. 5 T25N, R26W, Barry County

Latitude/Longitude: X = 428803, Y = 4084369Receiving Stream: Tributary to Spring River

First Classified Stream and ID: 100K Extent-Remaining Streams (C) (3960) losing

USGS Basin & Sub-watershed No.: 11070207-0101

Outfall #010 - Land application, Vought #1 site.

Legal Description: W 1/2, NE 1/4, Sec. 32 T26N, R26W, Barry County

Latitude/Longitude: X = 428870, Y = 4086619Receiving Stream: Tributary to Spring River

First Classified Stream and ID: 100K Extent-Remaining Streams (C) (3960) losing

USGS Basin & Sub-watershed No.: 11070207-0101

Outfall #011 – Land application, Vaught #2 site.

Legal Description: E ½, NW ¼, Sec. 32 T26N, R26W, Barry County

Latitude/Longitude: X = 428501, Y = 4086750 Receiving Stream: Tributary to Spring River

First Classified Stream and ID: 100K Extent-Remaining Streams (C) (3960) losing

USGS Basin & Sub-watershed No.: 11070207-0101

Outfall #012 – Land application, Vaught #3 site.

Legal Description: N ½, SE ¼, Sec. 32 T26N, R26W, Barry County

Latitude/Longitude: X = 428926, Y = 40886028 Receiving Stream: Tributary to Spring River

First Classified Stream and ID: 100K Extent-Remaining Streams (C) (3960) losing

USGS Basin & Sub-watershed No.: 11070207-0101

Outfall #013 – Land application, Schellen #1 site.

Legal Description: S 1/2, NW 1/4, Sec. 13 T25N, R26W, Barry County

Latitude/Longitude: X = 434603, Y = 4081318 Receiving Stream: Tributary to Calton Creek

First Classified Stream and ID: 100K Extent-Remaining Streams (C) (3960)

USGS Basin & Sub-watershed No.: 11010002-0403

Outfall #014 – Land application, Schellen #2 site.

Legal Description: NW 1/4, SE 1/4, Sec. 18 T25N, R25W, Barry County

Latitude/Longitude: X = 436834, Y = 4080788 Receiving Stream: Tributary to Calton Creek

First Classified Stream and ID: 100K Extent-Remaining Streams (C) (3960) losing

USGS Basin & Sub-watershed No.: 11010002-0403

Outfall #015 – Land application, Schellen #3 site.

Legal Description: NE 1/4, SE 1/4, Sec. 18 T25N, R25W, Barry County

Latitude/Longitude: X = 437144, Y = 4080870

Receiving Stream: Tributary to West Fork Jenkins Creek

First Classified Stream and ID: 100K Extent-Remaining Streams (C) (3960) losing

USGS Basin & Sub-watershed No.: 11010002-0405

Outfall #016 - Land application, Mattox #1 site.

Legal Description: NE 1/4, NE 1/4, Sec. 23 T25N, R26W, Barry County

Latitude/Longitude: X = 433960, Y = 4080085 Receiving Stream: Tributary to Calton Creek

First Classified Stream and ID: 100K Extent-Remaining Streams (C) (3960) losing

USGS Basin & Sub-watershed No.: 11010002-0403

Outfall #017 – Land application, Mattox #2 site.

Legal Description: SE 1/4, Sec. 14 T25N, R26W, Barry County

Latitude/Longitude: X = 433861, Y = 4080816 Receiving Stream: Tributary to Calton Creek

First Classified Stream and ID: 100K Extent-Remaining Streams (C) (3960) losing

USGS Basin & Sub-watershed No.: 11010002-0403

Outfall #018 - Land application, Mattox #3 site.

Legal Description: SE 1/4, SE 1/4, Sec. 7 T25N, R25W, Barry County

Latitude/Longitude: X = 437195, Y = 4082057 Receiving Stream: Tributary to Little Crane Creek

First Classified Stream and ID: 100K Extent-Remaining Streams (C) (3960) losing

USGS Basin & Sub-watershed No.: 11010002-0502

Outfall #019 – Land application, Mattox #4 site.

Legal Description: N 1/2, Sec. 18 T25N, R25W, Barry County

Latitude/Longitude: X = 436588, Y = 4081511 Receiving Stream: Tributary to Calton Creek

First Classified Stream and ID: 100K Extent-Remaining Streams (C) (3960) losing

USGS Basin & Sub-watershed No.: 11010002-0403

Outfall #020 – Land application, Hanson #1 site.

Legal Description: NW 1/4, NE 1/4, Sec. 4 T25N, R26W, Barry County

Latitude/Longitude: X = 430493, Y = 4085116 Receiving Stream: Tributary to Spring River

First Classified Stream and ID: 100K Extent-Remaining Streams (C) (3960)

USGS Basin & Sub-watershed No.: 11070207-0101

Outfall #021 - Land application, Hanson #3 site.

Legal Description: E 1/2, NE 1/4, Sec. 4 T25N, R26W, Barry County

Latitude/Longitude: X = 430849, Y = 4085063Receiving Stream: Tributary to Spring River

First Classified Stream and ID: 100K Extent-Remaining Streams (C) (3960)

USGS Basin & Sub-watershed No.: 11070207-0101

Outfall #022 – Land application, Hanson #4 site.

Legal Description: SW 1/4, NE 1/4, Sec. 4 T25N, R26W, Barry County

Latitude/Longitude: X = 430498, Y = 4084708 Receiving Stream: Tributary to Spring River

First Classified Stream and ID: 100K Extent-Remaining Streams (C) (3960)

USGS Basin & Sub-watershed No.: 11070207-0101

Outfall #023 – Land application, L. Henson site.

Legal Description: SE ¼, SE ¼, Sec. 5 T26N, R26W, Barry County

Latitude/Longitude: X = 430768, Y = 4085624 Receiving Stream: Tributary to Spring River

First Classified Stream and ID: 100K Extent-Remaining Streams (C) (3960)

USGS Basin & Sub-watershed No.: 11070207-0101

Outfall #024 - Land application, Williams site.

Legal Description: N 1/2, Sec. 22 T25N, R26W, Barry County

Latitude/Longitude: X = 431724, Y = 4080058 Receiving Stream: Tributary to Flat Creek

First Classified Stream and ID: 100K Extent-Remaining Streams (C) (3960)

USGS Basin & Sub-watershed No.: 11010002-0407

Outfall #025 – Land application, Weatherman site.

Legal Description: SW 1/4, SW 1/4, Sec. 2 T25N, R26W, Barry County

Latitude/Longitude: X = 432831, Y = 4083811

Receiving Stream: Receiving Stream: Tributary to Spring River

First Classified Stream and ID: 100K Extent-Remaining Streams (C) (3960)

USGS Basin & Sub-watershed No.: 11070207 - 0101

Outfall #026 – Land application, Williams #2 site.

Legal Description: Sec. 23 T25N, R26W, Barry County

Latitude/Longitude: X = 433008, Y = 4079480 Receiving Stream: Tributary to Stansberry Creek

First Classified Stream and ID: 100K Extent-Remaining Streams (C) (3960)

USGS Basin & Sub-watershed No.: 11010002-0407

Outfall #027 – Land application, Newman #1 site.

Legal Description: SE 1/4, NW 1/4, Sec. 24 T25N, R26W, Barry County

Latitude/Longitude: X = 434369, Y = 4079849 Receiving Stream: Tributary to Calton Creek

First Classified Stream and ID: 100K Extent-Remaining Streams (C) (3960)

USGS Basin & Sub-watershed No.: 11010002-0403

Outfall #028 – Land application, Newman #2 site.

Legal Description: SE 1/4, NW 1/4, Sec. 24 T25N, R26W, Barry County

Latitude/Longitude: X = 434712, Y = 4079870 Receiving Stream: Tributary to Calton Creek

First Classified Stream and ID: 100K Extent-Remaining Streams (C) (3960)

USGS Basin & Sub-watershed No.: 11010002-0403

Outfall #029 - Land application, Newman #3 site.

Legal Description: NE 1/4, NW 1/4, Sec. 24 T25N, R26W, Barry County

Latitude/Longitude: X = 434711, Y = 4080043 Receiving Stream: Tributary to Calton Creek

First Classified Stream and ID: 100K Extent-Remaining Streams (C) (3960)

USGS Basin & Sub-watershed No.: 11010002-0403

Outfall #030 – Land application, Grimm #2 site.

Legal Description: NE 1/4, NW 1/4, Sec. 9 T25N, R26W, Barry County

Latitude/Longitude: X = 430139, Y = 4083518 Receiving Stream: Tributary to Calton Creek

First Classified Stream and ID: 100K Extent-Remaining Streams (C) (3960)

USGS Basin & Sub-watershed No.: 11010002-0403

OUTFALL #001, #003 Stormwater Only

PERMITTED

TABLE A-1 FINAL 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 on <u>September 1, 2018</u> and remain in effect until expiration of the permit. Such discharges shall be controlled, limited and monitored by the permittee as specified below:

	¥ ¥ v	FINAL LI	MITATIONS	BENCH-	MONITORING REQUIREMENTS		
EFFLUENT PARAMETERS	Units	DAILY MAXIMUM	MONTHLY AVERAGE	MARKS	MEASUREMENT FREQUENCY	SAMPLE Type	
PHYSICAL							
Flow	MGD	*			once/quarter ◊	24 hr. estimate	
Precipitation	inches	*			once/quarter ◊	measured	
CONVENTIONAL							
Chemical Oxygen Demand	mg/L	120			once/quarter ◊	grab ∞	
Oil & Grease	mg/L	15			once/quarter ◊	grab ∞	
pH (See Note 1)	SU	6.5 to 9.0			once/quarter ◊	grab ∞	
Total Suspended Solids	mg/L	100			once/quarter ◊	grab ∞	
NUTRIENTS							
Ammonia as N	mg/L	12.1			once/quarter ◊	grab ∞	

MONITORING REPORTS SHALL BE SUBMITTED QUARTERLY; THE FIRST REPORT IS DUE <u>JANUARY 28, 2019</u>. THERE SHALL BE NO DISCHARGE OF FLOATING SOLIDS OR VISIBLE FOAM IN OTHER THAN TRACE AMOUNTS.

TABLE A-2.

FEATURE #002	ATURE #002 IRRIGATION SYSTEM LIMITATIONS AND MONITORING REQUIREMENTS									
The permittee is authoriz become effective upon is and monitored by the per	ssuance and remain in	n effect until ex								
			FINA	L LIMITATI	IONS	MONITORING RE	EQUIREMENTS			
EFFLUENT PARA	AMETER(S)	UNITS	DAILY MAXIMUM	WEEKLY AVERAGE	MONTHLY AVERAGE	MEASUREMENT FREQUENCY	SAMPLE TYPE			
Storage Basin Operation	onal Monitoring									
Storage Basin Freeboa	ard (See Note 2)	Feet	*			once/month	measured			
Precipitation		Inches	*			daily	total			
	ALL BE NO DISCHA					UE <u>OCTOBER 28, 20</u> R THAN TRACE AMOU				
pН		SU	*			once/quarter◊	grab			
Total Kjeldahl Nitroge	en as N	mg/L	*			once/quarter◊	grab			
Ammonia Nitrogen as	N	mg/L	*			once/quarter◊	grab			
Nitrate Nitrogen as N		mg/L	*			once/quarter◊	grab			
Total Phosphorus as P		mg/L	*			once/quarter◊	grab			
Oil & Grease		mg/L	*			once/quarter◊	grab			
Sodium		mg/L	*			once/quarter◊	grab			
Monitor	ING REPORTS SHA	LL BE SUBMIT	TED QUARTE	RLY; THE FIRS	ST REPORT IS I	DUE <mark>JANUARY 28,</mark> 2	<u>019</u> .			

THERE SHALL BE NO DISCHARGE OF FLOATING SOLIDS OR VISIBLE FOAM IN OTHER THAN TRACE AMOUNTS.

PERMITTED FEATURES #004-#030

TABLE A-3. LAND APPLICATION LIMITATIONS AND 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 upon issuance and remain in effect until expiration of the permit. The land application of wastewater shall be controlled, limited and monitored by the permittee as specified below:

and monitored by the permittee as specified below.										
EFELLENT DAD AMETED (C)	LIMITE	FINA	AL LIMITATI	ONS	MONITORING REQUIREMENTS					
EFFLUENT PARAMETER(S)	UNITS	DAILY	WEEKLY	MONTHLY	MEASUREMENT	SAMPLE				
		MAXIMUM	AVERAGE	AVERAGE	FREQUENCY	TYPE				
Wastewater Land Application Operational Monitoring (See Note 4)										
Irrigation Period	Hours	*			daily	total				
Volume Irrigated	Gallons	*			daily	total				
Application Area	Acres	*			daily	total				
Application Rate	Inches	*			daily	total				

MONITORING REPORTS SHALL BE SUBMITTED $\underline{MONTHLY}$ FOR PERMITTED FEATURES WHEN LAND APPLICATION OCCURS, REPORTS ARE DUE BY THE 28^{TH} OF THE FOLLOWING MONTH.

♦ See table below for quarterly sampling

	Minimum Sampling Requirements								
Quarter	narter Months Parameters								
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 28 th						

- Note 1 The facility will report the minimum and maximum values. pH is not to be averaged.
- Note 2- Storage Basin freeboard shall be reported as Storage Basin water level in feet below the overflow level.
- Note 3- Wastewater that is applied shall be sampled at the irrigation pump, wet well, or application vehicle. If no land application occurred during the report period, report as "No Discharge."
- Note 4 Reporting is only required if land application occurs during the month. If no land application occurs, no reporting is required.

B. STANDARD CONDITIONS

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

C. SPECIAL CONDITIONS

1. Emergency and Unauthorized Discharge. Wastewater shall be stored and land applied during suitable conditions so that there is no discharge from the storage structure(s) or land application site. An emergency discharge from wastewater storage structure(s) 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. Monitoring shall take place once per day while discharging. Test results are due on the 28th day of the following 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

^{*} Monitoring requirement only

 $[\]infty$ All samples shall be collected from a discharge resulting from a precipitation event greater than 0.1 inches in magnitude and that occurs at least 72 hours from the previously measurable precipitation event. If a discharge does not occur within the reporting period, report as no discharge. The total amount of precipitation should be noted from the event from which the samples were collected.

- 2. The full implementation of this operating permit, which includes implementation of any applicable schedules of compliance, shall constitute compliance with all applicable federal and state statutes and regulations in accordance with §644.051.16, RSMo, and the CWA section 402(k); however, this permit may be reopened and modified, or alternatively revoked and reissued to comply with any applicable effluent standard or limitation issued or approved under Sections 301(b)(2)(C) and (D), §304(b)(2), and §307(a) (2) of the Clean Water Act, if the effluent standard or limitation so issued or approved contains different conditions or is otherwise more stringent than any effluent limitation in the permit; or controls any pollutant not limited in the permit.
- 3. Changes in Discharges of Toxic Pollutant

In addition to the reporting requirements under §122.41(1), all existing manufacturing, commercial, mining, and silvicultural dischargers must notify the Director as soon as they know or have reason to believe:

- a. That an activity has occurred or will occur which would result in the discharge, on a routine or frequent basis, 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 μ g/L);
 - (2) Two hundred micrograms per liter (200 µg/L) for acrolein and acrylonitrile;
 - (3) Five hundred micrograms per liter (500 µg/L) for 2,4-dinitrophenol and for 2-methyl-4, 6-dinitrophenol;
 - (4) One milligram per liter (1 mg/L) for antimony;
 - (5) Five (5) times the maximum concentration value reported for the pollutant in the permit application in accordance with 40 CFR 122.21(g)(7); or
 - (6) The notification level established by the department in accordance with 40 CFR 122.44(f).
- b. That any activity has occurred or will occur which would result in any discharge, on a non-routine or infrequent basis, of a toxic pollutant which is not limited in the permit, if that discharge will exceed the highest of the following "notification levels":
 - (1) Five hundred micrograms per liter (500 μ g/L);
 - (2) One milligram per liter (1 mg/L) for antimony;
 - (3) Ten (10) times the maximum concentration value reported for that pollutant in the permit application in accordance with §122.21(g)(7).
 - (4) The level established by the Director in accordance with §122.44(f).
- 4. All outfalls must be clearly marked in the field. Permitted features, including storage basins and irrigation sites, shall be marked on an aerial or topographic site map included with the Operation and Maintenance manual.
- 5. Electronic Discharge Monitoring Report (eDMR) Submission System
 - (a) Discharge Monitoring Reporting Requirements. The permittee must electronically submit compliance monitoring data via the eDMR system. In regards to Standard Conditions Part I, Section B, #7, the eDMR system is currently the only Department approved reporting method for this permit.
 - The permittee shall submit an eDMR Permit Holder and Certifier Registration form within **30 days** of the effective date of this permit. Per 40 CFR Part 127 National Pollutant Discharge Elimination System (NPDES) Electronic Reporting Rule, reporting of effluent limits and monitoring shall be submitted by the permittee via an electronic system to ensure a timely, complete, accurate, and nationally-consistent set of data. Visit http://dnr.mo.gov/pubs/pub2474.pdf to access the Facility Participation Package which contains the eDMR Permit Holder and Certifier Registration form. Once the permittee is activated in the eDMR system:
 - (b) Programmatic Reporting Requirements. The following reports (if required by this permit) must be electronically submitted as an attachment to the eDMR system until such a time when the current or a new system is available to allow direct input of the data:
 - (1) Collection System Maintenance Annual Reports;
 - (2) Wastewater Irrigation Annual Reports;
 - (3) Any additional report required by the permit excluding bypass reporting.

 After such a system has been made available by the department, required data shall be directly input into the system by the next report due date.
 - (c) Other actions. The following shall be submitted electronically after such a system has been made available by the department:
 - (1) General Permit Applications/Notices of Intent to discharge (NOIs);
 - (2) Notices of Termination (NOTs);
 - (d) Electronic Submissions. To access the eDMR system, use the following link in your web browser: https://edmr.dnr.mo.gov/edmr/E2/Shared/Pages/Main/Login.aspx.
 - (e) Waivers from Electronic Reporting. The permittee must electronically submit compliance monitoring data and reports unless a waiver is granted by the department in compliance with 40 CFR Part 127. The permittee may obtain an electronic reporting waiver by first submitting an eDMR Waiver Request Form: http://dnr.mo.gov/forms/780-2692-f.pdf. The department will either approve or deny this electronic reporting waiver request within 120 calendar days. Only permittees with an approved

Page 9 of 12 Permit No. MO-0130760

waiver request may submit monitoring data and reports on paper to the Department for the period that the approved electronic reporting waiver is effective.

- 6. Public access to storage areas and land application sites must be controlled by either positive barriers or remoteness of site.
- 7. Reporting of Non-Detects:
 - a. An analysis conducted by the permittee or their contracted laboratory shall be conducted in such a way that the precision and accuracy of the analyzed result can be enumerated.
 - b. The permittee shall not report a sample result as "Non-Detect" without also reporting the detection limit of the test. Reporting as "Non-Detect" without also including the detection limit will be considered failure to report, which is a violation of this permit.
 - c. The permittee shall report the "Non-Detect" result using the less than sign and the minimum detection limit (e.g. <10).
 - d. Where the permit contains a Minimum Level (ML) and the permittee is granted authority in the permit to report zero in lieu of the < ML for a specified parameter (conventional, priority pollutants, metals, etc.), then zero (0) is to be reported for that parameter.
 - e. See Standard Conditions Part I, Section A, #4 regarding proper detection limits used for sample analysis.
 - f. When calculating monthly averages, one-half of the minimum detection limit (MDL) should be used instead of a zero. Where all data are below the MDL, the "<MDL" shall be reported as indicated in item (C).
- 8. The permittee shall develop, maintain and implement an Operation and Maintenance (O&M) Manual that includes all necessary items to ensure the operation and integrity of the waste handling and land application systems, including key operating procedures, an aerial or topographic site map with the permitted features, land application fields, and irrigation buffer zones marked, and a brief summary of the operation of the facility. The O & M manual shall be made available to the operator and available to the department upon request. The O&M Manual shall be reviewed and updated at least every five years.
- 9. 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.
- 10. It is a violation of the Missouri Clean Water Law to fail to pay fees associated with this permit (644.055 RSMo).
- 11. Hazardous waste regulated under the Missouri Hazardous Waste Law and regulations shall not be land applied under this permit.
- 12. The facility's SIC code(s) or description is found in 40 CFR 122.26(b)(14) and/or 10 CSR 20-6.200(2) hence shall implement a SWPPP which must be prepared and implemented upon permit issuance. The SWPPP must be kept on-site and should not be sent to the Department unless specifically requested. The SWPPP must be reviewed and updated every five years or as site conditions change (see Part III: Antidegradation Analysis and SWPPP sections in the fact sheet). The permittee shall select, install, use, operate, and maintain the Best Management Practices prescribed in the SWPPP in accordance with the concepts and methods described in: *Developing Your Stormwater Pollution Prevention Plan, A Guide for Industrial Operators*, (EPA 833-B-09-002) published by the EPA in February 2009 (www.epa.gov/npdes/pubs/industrial_swppp_guide.pdf). The SWPPP must include:
 - a. A listing of specific contaminants and their control measures (or BMPs) and a narrative explaining how BMPs are implemented to control and minimize the amount of contaminants potentially entering stormwater.
 - b. The SWPPP must include a schedule for once per month site inspections and brief written reports. The inspection report must include precipitation information for the entire period since last inspection, as well as observations and evaluations of BMP effectiveness. Throughout coverage under this permit, the facility must perform ongoing SWPPP review and revision to incorporate any site condition changes.
 - (1) Operational deficiencies must be corrected within seven (7) calendar days.
 - (2) Minor structural deficiencies must be corrected within fourteen (14) calendar days.
 - (3) Major structural deficiencies must be reported to the regional office within seven (7) days of discovery. The initial report shall consist of the deficiency noted, the proposed remedies, the interim or temporary remedies (including the general timing of the placement of the interim measures), and an estimate of the timeframe needed to wholly complete the repairs or construction. The permittee will work with the regional office to determine the best course of action, including but not limited to temporary structures to control stormwater runoff. The facility shall correct the major structural deficiency as soon as reasonably achievable.
 - (4) All actions taken to correct the deficiencies shall be included with the written report, including photographs.
 - (5) Inspection reports must be kept on site with the SWPPP and maintained for a period of five (5) years. These must be made available to Department and EPA personnel upon request.
 - c. A provision for designating an individual to be responsible for environmental matters.
 - d. A provision for providing training to all personnel involved in material handling and storage, and housekeeping of maintenance and cleaning areas. Proof of training shall be submitted on request of the Department.

Page 10 of 12 Permit No. MO-0130760

- 13. Permittee shall adhere to the following minimum Best Management Practices (BMPs):
 - a. Prevent the spillage or loss of fluids, oil, grease, fuel, etc. from vehicle maintenance, equipment cleaning, or warehouse activities and thereby prevent the contamination of storm water from these substances.
 - b. Provide collection facilities and arrange for proper disposal of waste products including but not limited to petroleum waste products, and solvents.
 - c. Store all paint, solvents, petroleum products and petroleum waste products (except fuels), and storage containers (such as drums, cans, or cartons) so that these materials are not exposed to storm water or provide other prescribed BMPs such as plastic lids and/or portable spill pans to prevent the commingling of storm water with container contents. Commingled water may not be discharged under this permit. Provide spill prevention control, and/or management sufficient to prevent any spills of these pollutants from entering waters of the state. Any containment system used to implement this requirement shall be constructed of materials compatible with the substances contained and shall also prevent the contamination of groundwater.
 - d. Provide good housekeeping practices on the site to keep trash from entry into waters of the state.
 - e. Provide sediment and erosion control sufficient to prevent or control sediment loss off of the property. This could include the use of straw bales, silt fences, or sediment basins, if needed, to comply with effluent limits.
- 14. The purpose of the SWPPP and the BMPs listed herein is the prevention of pollution of waters of the state. A deficiency of a BMP means it was not effective in preventing pollution [10 CSR 20-2.010(56)] of waters of the state, and corrective actions means the facility took steps to eliminate the deficiency.
- 15. Release of a hazardous substance must be reported to the department in accordance with 10 CSR 24-3.010. A record of each reportable spill shall be retained with the SWPPP and made available to the department upon request.
- 16. The facility shall ensure that adequate provisions are provided to prevent surface water intrusion into the storage basin(s) and to divert stormwater runoff around the storage basin(s) and protect embankments from erosion.
- 17. Land Application System.
 - a. This special condition does not apply to fertilizer products that are exempted under the Missouri Clean Water Law and regulations, 10 CSR 20-6.015(3)(B)8.
 - b. Permitted Sites. This permit authorizes land application of wastewater by the permittee or unpermitted contract haulers to those sites listed in the "Facility Description" of this permit. Land application sites where applications are conducted by permitted contract haulers are not required to be listed in this permit. Permittee requests for additional sites must follow permit modification procedures prior to land application. The O&M Manual shall include the name and permit number (if permitted) of the contract hauler and all land application site(s) listed in this permit.
 - c. Only those pollutants listed in the permit application may be land applied. Land application of wastewater shall not cause detrimental effects on crop growth.
 - d. If land application sites listed in this permit are also included as land application sites in another permit, the wastewater and sludge applications from other sources shall be included in the application rates in paragraphs b and c of this section.

 Records of the amount and application rate of wastewater or sludge from other sources must be kept.
 - e. Storage Basins. 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 upper operating level. Storage basins shall be lowered to the minimum operating level prior to November 30 each year. Storage basins shall be inspected monthly for structural integrity and leaks.
 - f. Public Access Restrictions. This permit does not authorize application of wastewater to public use areas
- 18. Land Application Requirements.
 - a. Wastewater land applications shall not exceed agronomic rates to ensure agricultural use of nutrients and prevent contamination of surface and groundwater. The agronomic rate is the amount of wastewater and/or sludge applied to a field to meet the fertilizer recommendation.
 - b. No land application shall occur when the soil is frozen, snow covered, or saturated. There shall be no application during a precipitation event or if a precipitation event that is likely to create runoff is forecasted to occur within 24 hours of a planned application.
 - c. Land application shall occur only during daylight hours.
 - d. Land application fields listed in the "Facility Description" shall be checked daily during land application for runoff. Sites that utilize spray irrigation shall monitor for the drifting of spray across property lines.
 - e. Setback distances from sensitive features. There shall be no land application within:
 - (1) 300 feet of any well, sinkhole, losing stream, wetland, or cave entrance, water supply impoundment or stream intake;
 - (2) 150 feet of an occupied residence, public building, or public use area;

Page 11 of 12 Permit No. MO-0130760

- (3) 50 feet of gaining perennial or intermittent stream, public or privately owned pond or lake;
- (4) 50 feet of property line or public road.
- f. Wastewater application on slopes exceeding 10%, the hourly application rate shall not exceed one-half (1/2) the design sustained permeability and in no case shall exceed one-half (1/2) inch per hour.
- g. Grazing of animals and harvesting of forage crops deferments following wastewater irrigation or sludge application shall be as follows:
 - (1) During the period May 1 to October 30 the minimum deferment shall be fourteen (14) days,
 - (2) During the period November 1 to April 30, the minimum deferment shall be thirty (30) days,
 - (3) Grazing of dairy animals shall follow the recommendations of the State Milk Board. A much longer deferment period is recommended for lactating dairy animals.
- h. Land application equipment owned or operated by the facility shall be visually inspected daily during land application to check for equipment malfunctions and leaks. The application system shall be operated so as to provide uniform distribution of wastes over the entire land application site and shall be capable of applying the annual design flow during an application period of less than 100 days or 800 hours per year. Land application equipment shall be calibrated at least once annually.

19. Nutrient Management Plant Available Nitrogen (PAN) Method

Land application to fields listed in the "Facility Description" in this permit shall use the following protocols to determine the amount of wastewater to be applied.

- a. The fertilizer recommendation shall be based on the following:
 - (1) The nutrient recommendation (nitrogen or phosphorus) for each crop. Recommendations can be found in University of Missouri Extension Guide WQ430 Crop/Nutrient Considerations for Biosolids or from publications by other land grant universities in adjoining states,
 - (2) Realistic yield goal for each crop. Yield goals should be based on actual crop yield records from multiple years for each field. Good judgment should be used to counteract unusually high or low yields. If a field's yield history is not available the USDA county wide average or other approved source may be used,
- b. Wastewater applications shall be conducted according to nutrient based management practices. The amount of wastewater to be applied shall be adjusted annually based on the Plant Available Nitrogen (PAN) calculation using the current wastewater nutrient analysis and the following:
 - (1) For non-legume crops, the nitrogen fertilizer recommendation shall be adjusted to account for nitrogen credits from a preceding legume crop and residual nitrogen from the previous year's application. Nitrogen removal rates can be found in WQ430.
 - (2) For legume crops, the nitrogen removal capacity of the legume crops should be based on the estimated nitrogen content of the harvested crop as defined in WQ430 and a realistic yield goal. The estimated nitrogen content of the crop must be adjusted using nitrogen credits for residual nitrogen fertilizer from the previous year's application.

PAN = [Ammonia Nitrogen x volatilization factor*] + [Organic Nitrogen x 0.2] + [Nitrate Nitrogen] *Volatilization factor is 0.7 for surface application and 1 for subsurface application.

- c. Other Pollutant Limitations and Loading Rates
 - (1) Oil and grease application shall not exceed 10,000 pounds oil/acre/year for subsurface injection or soil incorporation. For surface application to growing vegetation, the sludge shall not exceed 15% oil & grease content and shall not exceed 1,000 pounds oil/acre. Avoid heavy application of oil and grease within 30 days before planting of row crops.

20. Record Keeping

- a. A daily land application log shall be prepared and kept on file at the permittee office location for each application site showing dates of application, weather condition (sunny, overcast, raining, below freezing etc.), soil moisture condition, application method.
- b. A record of monthly visual storage structure inspections shall be maintained.
- A record of land application equipment inspections and calibrations as well as land application field inspections shall be maintained
- d. A record of all PAN calculations.
- e. All records and monitoring results shall be maintained for at least five years and shall be made available to the department upon request.

Page 12 of 12 Permit No. MO-0130760

21. Annual Report on Operation and Land Application.

An annual report is required in addition to other reporting requirements under Section A of this permit. The annual report shall be submitted by January 28 of each year. The report shall include, but is not limited to, a summary of the following:

- a. Record of maintenance and repairs 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 structure discharged during the year, the discharge flow, reason the discharge occurred and effluent analysis performed.
- c. A summary for each field used for land application showing number of acres used number of days application occurred, crop grown and yield, and total amount of wastewater applied (gal. or tons/acre).
- d. For fields where the total nitrogen application exceeds 150 lbs./acre, submit PAN calculations to document that the applied nitrogen will be utilized.
- e. Narrative summary of any problems or deficiencies identified, corrective action taken and improvements planned.

MISSOURI DEPARTMENT OF NATURAL RESOURCES STATEMENT OF BASIS MO-0136760 KEMIN INDUSTRIES, INC.

This Statement of Basis (Statement) gives pertinent information regarding modification(s) to the above listed operating. A Statement is not an enforceable part of a Missouri State Operating Permit.

Part I - Facility Information

Facility Type: Industrial Facility SIC Code(s): #2015

Facility Description: Facility produces ingredients for animal food from animal organs from local processing plants.

Part II - Modification Rationale

This operating permit is hereby modified to add new land application fields #26-#30.

No other changes were made at this time.

Part III - Administrative Requirements

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

PUBLIC NOTICE:

The Department shall give public notice that a draft permit has been prepared and its issuance is pending. Additionally, public notice will be issued if a public hearing is to be held because of a significant degree of interest in and water quality concerns related to a draft permit. No public notice is required when a request for a permit modification or termination is denied; however, the requester and permittee must be notified of the denial in writing. The Department must issue public notice of a pending operating permit or of a new or reissued statewide general permit. The public comment period is the length of time not less than 30 days following the date of the public notice which interested persons may submit written comments about the proposed permit. For persons wanting to submit comments regarding this proposed operating permit, 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 is tentatively scheduled to begin in October 2019 or is in process.

DATE OF FACT SHEET: OCTOBER 10, 2019

COMPLETED BY:

GREG CALDWELL, ENVIRONMENTAL SCIENTIST
MISSOURI DEPARTMENT OF NATURAL RESOURCES
WATER PROTECTION PROGRAM
OPERATING PERMITS SECTION – INDUSTRIAL PERMITS UNIT
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MISSOURI DEPARTMENT OF NATURAL RESOURCES FACT SHEET FOR THE PURPOSE OF RENEWAL OF MO-0136760 KEMIN INDUSTRIES, INC.

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

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

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

This Factsheet is for Industrial Land Application

Part I – Facility Information

Facility Type: Industrial no-discharge/land application /stormwater- SIC #2048

Facility Description:

Facility produces ingredients for animal food from animal organs from local processing plants. SIC Code #2015.

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

✓ No.

Application Date: 12/30/2016 Expiration Date: 01/17/2017

PERMITTED FEATURE(S) TABLE:

PERMITTED FEATURE	TREATMENT LEVEL	EFFLUENT TYPE
#002, #004-#026	Land Application	Industrial wastewater
#001, #003	BMP	Stormwater

Facility Performance History:

The discharge monitoring reports were reviewed for the past five years. There were exceedances for stormwater parameters of COD, TSS, and pH. This facility was last inspected on January 12, 2016. At the time of inspection the facility was found to be in compliance.

Part II - Receiving Stream Information

Receiving Water Body's Water Quality

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(4)].

RECEIVING STREAM(S) TABLE:

OUTFALL	WATERBODY NAME	CLASS	WBID	DESIGNATED USES	DISTANCE TO CLASSIFIED SEGMENT	12-DIGIT HUC
	Tributary to Spring R.	n/a	n/a	General Criteria	0.4 mi.	
#001-#003	Spring R.	P	3165	AQL, IRR, LWW, SCR, WBCA, HHP		
#005, #009, #010, #011,	Tributary to Spring R.	n/a	n/a	General Criteria	0.15 – 1.0 mi.	11070207 – 0101
#012, #020, #021, #022, #023 #025	100K Extent- Remaining Streams	С	3960	AQL, IRR, LWW, SCR, WBCB, HHP		
#004, #007, #013, #014,	Tributary to Calton Cr.	n/a	n/a	General Criteria	0.04 – 1.0 mi.	
#016, #017, #019	100K Extent- Remaining Streams	С	3960	AQL, IRR, LWW, SCR, WBCB, HHP		11010002 0402
#008	Tributary to Prairie Run Hollow	n/a	n/a	General Criteria	0.9 mi.	11010002-0403
#008	100K Extent- Remaining Streams	С	3960	AQL, IRR, LWW, SCR, WBCB, HHP		
#006, #018	Tributary to Little Crane Creek	n/a	n/a	General Criteria	0.25 mi.	11010002-0502
#000, #018	100K Extent- Remaining Streams	С	3960	AQL, IRR, LWW, SCR, WBCB, HHP		11010002-0302
#01 <i>5</i>	Tributary to West Fork Jenkins Creek	n/a	n/a	General Criteria	0.3 mi.	11010002 0405
#015	100K Extent- Remaining Streams	С	3960	AQL, IRR, LWW, SCR, WBCB, HHP		11010002-0405
11004	Tributary to Flat Creek	n/a	n/a	General Criteria	0.3 mi.	11010002 0407
#024	100K Extent- Remaining Streams	С	3960	AQL, IRR, LWW, SCR, WBCB, HHP	_	11010002-0407

n/a not applicable

WBID Waterbo

Waterbody ID: Missouri Use Designation Dataset 100K Extent-Remaining Streams data can be found as an ArcGIS shapefile on MSDIS at tp://msdis.missouri.edu/pub/Inland_Water_Resources/MO_2014_WQS_Stream_Classifications_and_Use_shp.zip

As per 10 CSR 20-7.031 Missouri Water Quality Standards, the department defines the Clean Water Commission's water quality objectives in terms of "water uses to be maintained and the criteria to protect those uses." The receiving stream and 1st classified receiving stream's beneficial water uses to be maintained are in the receiving stream table in accordance with [10 CSR 20-7.031(1)(C)].

Uses which may be found in the receiving streams table, above:

10 CSR 20-7.031(1)(C)1.:

AQL = Protection of aquatic life (Current narrative use(s) are defined to ensure the protection and propagation of fish shellfish and wildlife, which is further subcategorized as: WWH = Warm Water Habitat; CLH = Cool Water Habitat; CDH = Cold Water Habitat; EAH = Ephemeral Aquatic Habitat; MAH = Modified Aquatic Habitat; LAH = Limited Aquatic Habitat. This permit uses AQL effluent limitations in 10 CSR 20-7.031 Table A for all habitat designations unless otherwise specified.)

10 CSR 20-7.031(1)(C)2.: Recreation in and on the water

WBC = Whole Body Contact recreation where the entire body is capable of being submerged;

WBC-A = Whole body contact recreation that supports swimming uses and has public access;

 $\mathbf{WBC-B} = \mathbf{Whole}$ body contact recreation that supports swimming;

SCR = Secondary Contact Recreation (like fishing, wading, and boating).

10 CSR 20-7.031(1)(C)3. to 7.:

 $\boldsymbol{HHP} \ (\text{formerly HHF}) = Human \ Health \ Protection \ as \ it \ relates \ to \ the \ consumption \ of \ fish;$

IRR = Irrigation for use on crops utilized for human or livestock consumption;

LWW = Livestock and wildlife watering (Current narrative use is defined as LWP = Livestock and Wildlife Protection);

DWS = Drinking Water Supply;

IND = Industrial water supply

10 CSR 20-7.031(1)(C)8-11.: Wetlands (10 CSR 20-7.031 Table A currently does not have corresponding habitat use criteria for these defined uses)

WSA = Storm- and flood-water storage and attenuation; WHP = Habitat for resident and migratory wildlife species;

WRC = Recreational, cultural, educational, scientific, and natural aesthetic values and uses; WHC = Hydrologic cycle maintenance.

10 CSR 20-7.031(6): GRW = Groundwater

RECEIVING STREAM MONITORING REQUIREMENTS:

No receiving water monitoring requirements recommended at this time.

303(D) LIST:

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. http://dnr.mo.gov/env/wpp/waterquality/303d/303d.htm

- ✓ Applicable; Spring River is listed on the 2010Missouri 303(d) List for E. coli.
- ✓ This facility is not considered to be a source of the above listed pollutant(s) or considered to contribute to the impairment of Spring River.

TOTAL MAXIMUM DAILY LOAD (TMDL):

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; hence, the purpose of a TMDL is to determine the pollutant loading a specific waterbody can assimilate without exceeding water quality standards. If a water body is determined to be impaired as listed on the 303(d) list, then a watershed management plan or TMDL may be developed. The TMDL shall include the WLA calculation. http://dnr.mo.gov/env/wpp/tmdl/

- ✓ Applicable; Tributary to Little Crane Creek is associated with the 2001 EPA approved James River TMDL for nutrients.
- ✓ This facility is not considered to be a source of the above listed pollutant(s) or considered to contribute to the impairment.

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

ALTERNATIVE EVALUATIONS FOR NEW FACILITIES:

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

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

ANTI-BACKSLIDING:

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

✓ The Department determined technical mistakes or mistaken interpretations of law were made in issuing the permit under section 402(a)(1)(b). The effluent limitation of 250 mg/L for the parameter of sodium has been changed to monitoring only. There is no regulatory basis for the effluent limitation. Permit requires that land application shall not cause a detrimental effect of crop growth.

ANTIDEGRADATION:

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

✓ Renewal no degradation proposed and no further review necessary.

For stormwater discharges with new, altered, or expanding discharges, the stormwater BMP chosen for the facility, through the antidegradation analysis performed by the facility, must be implemented and maintained at the facility. Failure to implement and maintain the chosen BMP alternative is a permit violation; see SWPPP.

✓ Applicable; the facility must review and maintain stormwater BMPs as appropriate.

BENCHMARKS:

When a permitted feature has associated parameters that may alter the operation and maintenance of the land application activity depending on wastewater or sludge quality, a benchmark may be implemented at the discretion of the permit writer. Benchmarks require the facility to monitor, and if necessary, adjust operations and maintenance or replace and update land application control measures. Benchmark concentrations are not effluent limitations. A benchmark exceedance, therefore, is not a permit violation; however, failure to take corrective action is a violation of the permit. Benchmark monitoring data is used to determine the overall effectiveness of control measures and to assist the permittee in knowing when additional corrective actions may be necessary to comply with the technology based effluent limitations (TBEL).

Numeric benchmark values are based on state regulations 10 CSR 20-8.020(15), the *U.S. Environmental Protection Agency Process Design Manual for Land Treatment of Municipal Wastewater* (EPA/625/R-06/016), or other pertinent, reviewed and accepted materials regarding land application activity.

✓ Not applicable; this facility does not have operational and maintenance issues that would warrant change to the operation.

BIOSOLIDS & SEWAGE SLUDGE:

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

✓ Not applicable; This condition is not applicable to the permittee for this facility.

INDUSTRIAL SLUDGE:

Industrial sludge is solids, semi-solids, or liquid residue generated during the treatment of industrial process wastewater in a treatment works; including but not limited to, scum or solids removed in primary, secondary, or advanced wastewater treatment process; scum and solids filtered from water supplies and backwashed; and a material derived from industrial sludge.

✓ Not Applicable; Not applicable. This condition is not applicable to the permittee for this facility.

COMPLIANCE AND ENFORCEMENT:

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

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

ELECTRONIC DISCHARGE MONITORING REPORT (EDMR) SUBMISSION SYSTEM:

The U.S. Environmental Protection Agency (EPA) promulgated a final rule on October 22, 2015, to modernize Clean Water Act reporting for municipalities, industries, and other facilities by converting to an electronic data reporting system. This final rule requires regulated entities and state and federal regulators to use information technology to electronically report data required by the National Pollutant Discharge Elimination System (NPDES) permit program instead of filing paper reports. To comply with the federal rule, the Department is requiring all permittees to begin submitting discharge monitoring data and reports online.

Per 40 CFR 127.15 and 127.24, permitted facilities may request a temporary waiver for up to 5 years or a permanent waiver from electronic reporting from the Department. To obtain an electronic reporting waiver, a permittee must first submit an eDMR Waiver Request Form: http://dnr.mo.gov/forms/780-2692-f.pdf. A request must be made for each facility. If more than one facility is owned or operated by a single entity, then the entity must submit a separate request for each facility based on its specific circumstances. An approved waiver is non-transferable.

The Department must review and notify the facility within 120 calendar days of receipt if the waiver request has been approved or rejected [40 CFR 124.27(a)]. During the Department review period as well as after a waiver is granted, the facility must continue submitting a hard-copy of any reports required by their permit. The Department will enter data submitted in hard-copy from those facilities allowed to do so and electronically submit the data to the EPA on behalf of the facility.

✓ The permittee/facility is not currently using the eDMR data reporting system. The permittee shall submit an eDMR Permit Holder and Certifier Registration form within 30 days of the effective date of this permit.

NUTRIENT MANAGEMENT AND LAND APPLICATION

Land applications by a contract hauler on fields that the permittee has a spreading agreement on are not required to be in this permit. A spreading agreement does not constitute the field being rented or leased by the permittee as they do not have any control over management of the field.

The fertilizer recommendation is the amount of nutrients required for a crop to produce the expected yield. The agronomic rate is the amount of wastewater applied to a field to supply the amount of nutrients to meet the fertilizer recommendation. For more information on nutrient management, PAN calculations, and land application best management practices, consult the following University of Missouri Extension Guides:

G9218, Managing Nitrogen to Protect Water Quality

G9177 Preplant Nitrogen Test for Adjusting Corn Nitrogen Recommendations

G9168 Calculating Plant Available Nitrogen and Residual Nitrogen

G9180, Phosphorus in Missouri Soils

G9181, Agricultural Phosphorus and Water Quality

G9184, The Missouri Phosphorus Index

Nitrogen based applications are when the amount of wastewater applied is based on the nitrogen fertilizer recommendation for the planned crop. Phosphorous based applications are when the amount of wastewater applied is based on the phosphorous fertilizer recommendation for the planned crop.

Fertilizer recommendations can also be obtained by using the University of Missouri Extension online fertilizer recommendation calculator at http://soilplantlab.missouri.edu/soil/scripts/manualentry.aspx

Conversion Factors for laboratory testing results: [mg/L or mg/kg or ppm] x [conversion factor] = [pounds per Unit Volume]

<u>Unit Volume</u>	Conversion Factors
lbs./acre inch	0.226
lbs./1,000 gallons	0.0083
lbs./100 cubic feet	0.0062
lbs/ton (wet weight)	0.002

Oil and grease sludges with low nitrogen content, more than 20:1 Carbon to Nitrogen ratio, may require supplemental nitrogen application to provide proper decomposition of the oil content and prevent nitrogen deficiencies for the crop.

REASONABLE POTENTIAL ANALYSIS (RPA):

Federal regulation [40 CFR Part 122.44(d)(1)(i)] requires effluent limitations for all pollutants that are or may be discharged at a level that will cause or have the reasonable potential to cause or contribute to an in-stream excursion above narrative or numeric water quality standard. In accordance with [40 CFR Part 122.44(d)(1)(iii)] if the permit writer determines that any give pollutant has the reasonable potential to cause, or contribute to an in-stream excursion above the WQS, the permit must contain effluent limits for that pollutant.

✓ Not applicable; a RPA was not conducted for this facility.

SCHEDULE OF COMPLIANCE (SOC):

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

✓ Not Applicable; This permit does not contain a SOC.

SPILL REPORTING:

Per 10 CSR 24-3.010, any emergency involving a hazardous substance must be reported to the department's 24 hour Environmental Emergency Response hotline at (573) 634-2436 at the earliest practicable moment after discovery. The department may require the submittal of a written report detailing measures taken to clean up a spill. These reporting requirements apply whether or not the spill results in chemicals or materials leaving the permitted property or reaching waters of the state. This requirement is in addition to the Noncompliance Reporting requirement found in Standard Conditions Part I.

STORMWATER POLLUTION PREVENTION PLAN (SWPPP):

In accordance with 40 CFR 122.44(k), Best Management Practices (BMPs) must be used to control or abate the discharge of pollutants when: 1) Authorized under section 304(e) of the Clean Water Act (CWA) for the control of toxic pollutants and hazardous substances from ancillary industrial activities; 2) Authorized under section 402(p) of the CWA for the control of stormwater

discharges; 3) Numeric effluent limitations are infeasible; or 4) the practices are reasonably necessary to achieve effluent limitations and standards or to carry out the purposes and intent of the CWA. In accordance with the EPA's *Developing Your Stormwater Pollution Prevention Plan, A Guide for Industrial Operators*, (Document number EPA 833-B-09-002) [published by the United States Environmental Protection Agency (USEPA) in February 2009], BMPs are measures or practices used to reduce the amount of pollution entering waters of the state from a permitted facility. BMPs may take the form of a process, activity, or physical structure. Additionally in accordance with the Stormwater Management, a SWPPP is a series of steps and activities to 1) identify sources of pollution or contamination, and 2) select and carry out actions which prevent or control the pollution of storm water discharges.

A SWPPP must be prepared by the permittee if the SIC code is found in 40 CFR 122.26(b)(14) and/or 10 CSR 20-6.200(2). A SWPPP may be required of other facilities where stormwater has been identified as necessitating better management. The purpose of a SWPPP is to comply with all applicable stormwater regulations by creating an adaptive management plan to control and mitigate stream pollution from stormwater runoff. Developing a SWPPP provides opportunities to employ appropriate BMPs to minimize the risk of pollutants being discharged during storm events. The following paragraph outlines the general steps the permittee should take to determine which BMPs will work to achieve the benchmark values or limits in the permit. This section is not intended to be all encompassing or restrict the use of any physical BMP or operational and maintenance procedure assisting in pollution control. Additional steps or revisions to the SWPPP may be required to meet the requirements of the permit.

Areas which should be included in the SWPPP are identified in 40 CFR 122.26(b)(14). Once the potential sources of stormwater pollution have been identified, a plan should be formulated to best control the amount of pollutant being released and discharged by each activity or source. This should include, but is not limited to, minimizing exposure to stormwater, good housekeeping measures, proper facility and equipment maintenance, spill prevention and response, vehicle traffic control, and proper materials handling. Once a plan has been developed the facility will employ the control measures determined to be adequate to achieve the benchmark values discussed above. The facility will conduct monitoring and inspections of the BMPs to ensure they are working properly and reevaluate any BMP not achieving compliance with permitting requirements. For example, if sample results from an outfall show values of TSS above the benchmark value, the BMP being employed is deficient in controlling stormwater pollution. Corrective action should be taken to repair, improve, or replace the failing BMP. This internal evaluation is required at least once per month but should be continued more frequently if BMPs continue to fail. If failures do occur, continue this trial and error process until appropriate BMPs have been established.

For new, altered, or expanded stormwater discharges, the SWPPP shall identify reasonable and effective BMPs while accounting for environmental impacts of varying control methods. The antidegradation analysis must document why no discharge or no exposure options are not feasible. The selection and documentation of appropriate control measures shall serve as an alternative analysis of technology and fulfill the requirements of antidegradation [10 CSR 20-7.031(3)]. For further guidance, consult the antidegradation implementation procedure (http://dnr.mo.gov/env/wpp/docs/AIP050212.pdf).

Alternative Analysis (AA) evaluation of the BMPs is a structured evaluation of BMPs that are reasonable and cost effective. The AA evaluation should include practices that are designed to be: 1) non-degrading; 2) less degrading; or 3) degrading water quality. The glossary of AIP defines these three terms. The chosen BMP will be the most reasonable and effective management strategy while ensuring the highest statutory and regulatory requirements are achieved and the highest quality water attainable for the facility is discharged. The AA evaluation must demonstrate why "no discharge" or "no exposure" is not a feasible alternative at the facility. This structured analysis of BMPs serves as the antidegradation review, fulfilling the requirements of 10 CSR 20-7.031(3) Water Quality Standards and *Antidegradation Implementation Procedure* (AIP), Section II.B.

If parameter-specific numeric exceedances continue to occur and the permittee feels there are no practicable or cost-effective BMPs which will sufficiently reduce a pollutant concentration in the discharge to the benchmark values established in the permit, the permittee can submit a request to re-evaluate the benchmark values. This request needs to include 1) a detailed explanation of why the facility is unable to comply with the permit conditions and unable to establish BMPs to achieve the benchmark values; 2) financial data of the company and documentation of cost associated with BMPs for review and 3) the SWPPP, which should contain adequate documentation of BMPs employed, failed BMPs, corrective actions, and all other required information. This will allow the Department to conduct a cost analysis on control measures and actions taken by the facility to determine cost-effectiveness of BMPs. The request shall be submitted in the form of an operating permit modification; the application is found at: http://dnr.mo.gov/forms/index.html.

Applicable A SWPPP shall be developed and implemented for each site and shall incorporate required practices identified by the Department with jurisdiction, incorporate erosion control practices specific to site conditions, and provide for maintenance and adherence to the plan.

VARIANCE:

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

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

WATER QUALITY STANDARDS:

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

40 CFR 122.41(M) - BYPASSES:

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

✓ Not Applicable This facility does not anticipate bypassing.

<u>Part IV – Permit Limits Determination</u>

GENERAL CRITERIA CONSIDERATIONS:

In accordance with 40 CFR 122.44(d)(1), effluent limitations shall be placed into permits for pollutants which have been determined to cause, have the reasonable potential to cause, or to contribute to an excursion above any State water quality standard, including State narrative criteria for water quality. The rule further states pollutants which have been determined to cause, have the reasonable potential to cause, or contribute to an excursion above a narrative criterion within an applicable State water quality standard, the permit shall contain a numeric effluent limitation to protect that narrative criterion. The previous permit included the narrative criteria as specific prohibitions placed upon the discharge. These prohibitions were included in the permit absent any discussion of the discharge's reasonable potential to cause or contribute to an excursion of the criterion. In order to comply with this regulation, the permit writer has completed a reasonable potential determination on whether the discharge has reasonable potential to cause, or contribute to an excursion of the general criteria listed in 10 CSR 20-7.031(4). These specific requirements are listed below followed by derivation and discussion (the lettering matches that of the rule itself, under 10 CSR 20-7.031(4)). In instances where reasonable potential exists, the permit includes numeric limitations to address the reasonable potential. In instances where reasonable potential does not exist the permit includes monitoring of the discharges potential to impact the receiving stream's narrative criteria. Finally, all of the previous permit narrative criteria prohibitions have been removed from the permit given they are addressed by numeric limits where reasonable potential exists. It should also be noted that Section 644.076.1, RSMo as well as Section D – Administrative Requirements of Standard Conditions Part I of this permit state that it shall be unlawful for any person to cause or permit any discharge of water contaminants from any water contaminant or point source located in Missouri that is in violation of sections 644.006 to 644.141 of the Missouri Clean Water Law or any standard, rule, or regulation promulgated by the commission. For the below determinations, only the discharging outfalls were considered. No discharge outfalls including land application fields, are not permitted to discharge to waters of the state.

- (A) Waters shall be free from substances in sufficient amounts to cause the formation of putrescent, unsightly or harmful bottom deposits or prevent full maintenance of beneficial uses.
 - For outfalls #001 and #003, there is no RP for putrescent bottom deposits preventing full maintenance of beneficial uses because the permit does not allow for wastewater to be discharged from the facility, and stormwater is not expected to contain putrescent materials.
 - For outfalls #001 and #003, there is no RP for unsightly or harmful bottom deposits preventing full maintenance of beneficial uses because all outfalls have TSS limitations, however, they are all based on Water Quality Standards for the processes involved; values discharged from all outfalls are typically below WQ limitations, therefore no RP.

- (B) Waters shall be free from oil, scum and floating debris in sufficient amounts to be unsightly or prevent full maintenance of beneficial uses.
 - For outfalls #001 and #003, there is no RP for oil in sufficient amounts to be unsightly preventing full maintenance of beneficial uses because all outfalls have oil & grease limitations, however, they are all based on Water Quality Standards for the processes involved; values discharged from all outfalls are typically below WQ limitations, therefore no RP.
 - For all outfalls, there is no RP for scum and floating debris in sufficient amounts to be unsightly preventing full maintenance of beneficial uses because nothing disclosed by the permittee at renewal for these outfalls indicates scum and floating debris will be present in sufficient amounts to impair beneficial uses
- (C) Waters shall be free from substances in sufficient amounts to cause unsightly color or turbidity, offensive odor or prevent full maintenance of beneficial uses.
 - For all outfalls, there is no RP for offensive odor in sufficient amounts preventing full maintenance of beneficial uses because nothing disclosed by the permittee at renewal for these outfalls indicates offensive odor will be present in sufficient amounts to impair beneficial uses.
 - For outfalls #001 and #003, there is no RP for unsightly or harmful bottom deposits preventing full maintenance of beneficial uses because all outfalls have TSS limitations, however, they are all based on technology for the processes involved; values discharged from all outfalls are typically below WQ limitations, therefore no RP.
- (D) Waters shall be free from substances or conditions in sufficient amounts to result in toxicity to human, animal or aquatic life.
 - For outfalls #001 and #003, there is no RP for substances or conditions in sufficient amounts to result in toxicity to human, animal or aquatic life preventing full maintenance of beneficial uses because the permit does not allow for wastewater to be discharged from the facility.
 - For outfalls #001 and #003, there is no RP for substances or conditions in sufficient amounts to result in toxicity to human, animal or aquatic life preventing full maintenance of beneficial uses because all outfalls have COD limitations, however, they are all based on technology for the processes involved; values discharged from all outfalls are typically below WQ limitations, therefore no RP.
- (E) There shall be no significant human health hazard from incidental contact with the water.
 - It is the permit writer's opinion that this criterion is the same as (D).
- (F) There shall be no acute toxicity to livestock or wildlife watering.
 - It is the permit writer's opinion that this criterion is the same as (D).
- (G) Waters shall be free from physical, chemical or hydrologic changes that would impair the natural biological community.
 - For all outfalls, there is no RP for physical changes that would impair the natural biological community because nothing disclosed by the permittee at renewal for these outfalls indicates physical changes that would impair the natural biological community.
 - For all outfalls, there is no RP for hydrologic changes that would impair the natural biological community because nothing disclosed by the permittee at renewal for these outfalls indicates physical changes that would impair the natural hydrologic community.
 - It has previously been established that any chemical changes are covered by the specific numeric effluent limitations established in the permit. By capturing all of the stormwater in the area, potential physical changes have been reduced. Equalized flow results in lower rates of discharge, thus reducing the scour and erosion potential that could cause these physical changes. The equalized discharge will not have significant impact on the high stream flows. The discharge will not create any changes to hydrologic characteristics that would alter natural stream conditions during precipitation events.
- (H) Waters shall be free from used tires, car bodies, appliances, demolition debris, used vehicles or equipment and solid waste as defined in Missouri's Solid Waste Law, section 260.200, RSMo, except as the use of such materials is specifically permitted pursuant to section 260.200-260.247.
 - For all outfalls, there are no solid waste disposal activities or any operation that has reasonable potential to cause or contribute to the materials listed above being discharged through any outfall.

Permitted Feature #001, #003 – Stormwater Discharge

PARAMETER	Unit	DAILY MAXIMUM	MINIMUM SAMPLING FREQUENCY	MINIMUM REPORTING FREQUENCY	SAMPLE TYPE	Basis for Limits	PREVIOUS PERMIT LIMITATIONS
PHYSICAL							
Flow	MGD	*	once/quarter	once/quarter	measured	1	same
Precipitation	inches	*	once/quarter	once/quarter	total	1	same
Conventional							
Chemical Oxygen Demand	mg/L	120	once/quarter	once/quarter	grab	1	same
Oil & Grease	mg/L	15	once/quarter	once/quarter	grab	1	same
рН	SU	6.5 to 9.0	once/quarter	once/quarter	grab	1	same
Total Suspended Solids	mg/L	100	once/quarter	once/quarter	grab	1	same
Nutrients							
Ammonia as N	mg/L	12.1	once/quarter	once/quarter	grab	1	same

Permitted Feature #001, #003 – DERIVATION AND DISCUSSION OF LIMITS:

- <u>Flow.</u> In accordance with [40 CFR Part 122.44(i)(1)(ii)] the volume of effluent discharged from each outfall is needed to assure compliance with permitted effluent limitations. If the permittee is unable to obtain effluent flow, then it is the responsibility of the permittee to inform the department, which may require the submittal of an operating permit modification. The facility will report the total flow in millions of gallons per day (MGD).
- Precipitation. Monitoring only requirement; measuring the amount of precipitation [(10 CSR 20-6.200(2)(C)1.E(VI)] during an event is necessary to ensure adequate stormwater management exists at the site. Knowing the amount of potential stormwater runoff can provide the permittee a better understanding of specific control measure that should be employed to ensure protection of water quality. The facility will provide the 24 hour accumulation value of precipitation from the day of sampling the other parameters. It is not necessary to report all days of precipitation during the quarter because of the readily available on-line data
- <u>pH.</u> 6.5 to 9.0 SU. The Water Quality Standard at 10 CSR 20-7.031(5)(E) states water contaminants shall not cause pH to be outside the range of 6.5 to 9.0 standard pH units.
- <u>Chemical Oxygen Demand.</u> Effluent limitations from the previous state operating permit have been reassessed and verified that they are still protective of the receiving stream's water quality. Effluent limitations have been retained from previous state operating permit, please see the **Applicable Designation of Waters of the State** sub-section of the <u>Receiving Stream Information.</u>
- <u>Oil & Grease.</u> Effluent limitations from the previous state operating permit have been reassessed and verified that they are still protective of the receiving stream's water quality. Effluent limitations have been retained from previous state operating permit, please see the **Applicable Designation of Waters of the State** sub-section of the **Receiving Stream Information.**
- <u>Total Suspended Solids (TSS).</u> Effluent limitations from the previous state operating permit have been reassessed and verified that they are still protective of the receiving stream's water quality. Effluent limitations have been retained from previous state operating permit, please see the **Applicable Designation of Waters of the State** sub-section of the <u>Receiving Stream Information.</u>
- <u>Ammonia as N.</u> Effluent limitations from the previous state operating permit have been reassessed and verified that they are still protective of the receiving stream's water quality. Effluent limitations have been retained from previous state operating permit, please see the **Applicable Designation of Waters of the State** sub-section of the **Receiving Stream Information.**

Permitted Feature #002, #004-#025- Emergency Discharge

There are no effluent limits associated with Permitted Feature #002 and #004 - #025 for the no-discharge facility. However, the following monitoring is required for an emergency discharge. Monitoring requirement only based on best professional judgment.

EMERGENCY DISCHARGE TABLE:

PARAMETER	Unit	DAILY MAXIMUM	MINIMUM SAMPLING FREQUENCY	MINIMUM REPORTING FREQUENCY	SAMPLE TYPE	PREVIOUS PERMIT LIMITATIONS	
Flow	MGD	*	Daily when discharging	Monthly	Grab	Same	
Biochemical Oxygen Demands	mg/L	*	Daily when discharging	Monthly	Grab	Same	
Total Suspended Solids	mg/L	*	Daily when discharging	Monthly	Grab	Same	
Ammonia as N	mg/L	*	Daily when discharging	Monthly	Grab	Same	
pH – Units	SU	*	Daily when discharging	Monthly	Grab	Same	
Monitoring Frequency	Please see Minimum Sampling and Reporting Frequency Requirements in the Derivation and Discussion Section below.						

^{* -} Monitoring requirement only

PERMITTED FEATURE #002 - STORAGE BASIN AND IRRIGATED WASTEWATER

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.

STORAGE BASIN OPERATIONAL MONITORING TABLE:

PARAMETER	Unit	DAILY MAXIMUM	MINIMUM SAMPLING FREQUENCY	MINIMUM REPORTING FREQUENCY	SAMPLE TYPE	Basis for Limits	PREVIOUS PERMIT LIMITATIONS				
	Storage Basin Monitoring										
Freeboard	feet	*	once/month	once/month	measured	1	same				
Precipitation	inches	*	daily	once/month	total	1	same				
		Land Applie	d Wastewater M	onitoring							
pH	SU	*	once/quarter	once/quarter	grab	1	same				
Total Kjeldahl Nitrogen as N	mg/L	*	once/quarter	once/quarter	grab	1	same				
Ammonia Nitrogen as N	mg/L	*	once/quarter	once/quarter	grab	1	same				
Nitrate Nitrogen as N	mg/L	*	once/quarter	once/quarter	grab	1	same				
Total Phosphorus as P	mg/L	*	once/quarter	once/quarter	grab	1	same				
Oil & Grease	mg/L	*	once/quarter	once/quarter	grab	1	same				
Sodium	mg/L	*	once/quarter	once/quarter	grab	1	250				

 $[\]ensuremath{^*}$ - Monitoring requirement only.

Basis for Limitations Codes:

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

PERMITTED FEATURE #002 – DERIVATION AND DISCUSSION OF LIMITS:

- **Freeboard.** Monitoring requirement only.
- **Precipitation.** Monitoring requirement only.
- **pH.** Monitoring requirement only. Monitoring for pH is included to determine nutrient loading rates on the land application fields. [10 CSR 20-8.020(15)(F)7.]
- <u>Total Kjeldahl Nitrogen.</u> 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.]
- <u>Ammonia Nitrogen as N.</u> 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.]
- <u>Nitrate Nitrogen as N.</u> 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.]
- <u>Total Phosphorus as P</u>. 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 Oil & Grease is included to determine nutrient loading rates on the land application fields. [10 CSR 20-8.020(15)(F)7.]
- <u>Sodium</u>. Monitoring requirement only. Monitoring for Sodium is included to determine nutrient loading rates on the land application fields. [10 CSR 20-8.020(15)(F)7.]

PERMITTED FEATURE #004-#025 - LAND APPLICATION OF WASTEWATER

PARAMETER	Unit	DAILY MAXIMUM	Minimum Sampling Frequency	MINIMUM REPORTING FREQUENCY	SAMPLE TYPE	BASIS FOR LIMITS	PREVIOUS PERMIT LIMITATIONS
Irrigation Period	Hours	*	daily	once/month	total	1	same
Volume Irrigated	Gallons	*	daily	once/month	total	1	same
Application Area	Acres	*	daily	once/month	total	1	same
Application Rate	Gal or in./acre	*	daily	once/month	total	1	same

^{* -} Monitoring requirement only.

PERMITTED FEATURE #004-#025 – DERIVATION AND DISCUSSION OF LIMITS:

- <u>Irrigation Period.</u> 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.
- <u>Application Area.</u> Monitoring requirement only. Monitoring for the Application Area is included to determine if proper application is occurring on the land application fields.
- <u>Application Rate</u>. Monitoring requirement only. Monitoring for the Application Rate is included to determine if proper application is occurring on the land application fields.

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. Renewal applications must continue to be submitted within 180 days of expiration, however, in instances where effluent data from the previous renewal is less than 4 years old, that data may be re-submitted to meet the requirements of the renewal application. If the permit provides a schedule of compliance for meeting new water quality based effluent limits beyond the expiration date of the permit, the time remaining in the schedule of compliance will be allotted in the renewed permit.

PUBLIC NOTICE:

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

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

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

✓ The Public Notice period for this operating permit was from October 18, 2019 to November 18, 2019. No responses were received.

DATE OF FACT SHEET: NOVEMBER 22, 2019

COMPLETED BY:

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MISSOURI DEPARTMENT OF NATURAL RESOURCES
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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.

- 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.
- 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.
- 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.

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:
 - 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;
 - 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.
 - Any unanticipated bypass which exceeds any effluent limitation in the permit.
 - ii. Any upset which exceeds any effluent limitation in the permit.
 - 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.
- 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
- 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.
- Monitoring results shall be reported to the Department no later than the 28th day of the month following the end of the reporting period.

Section C – Bypass/Upset Requirements

1. **Definitions.**

- a. Bypass: the intentional diversion of waste streams from any portion of a treatment facility, 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.

b. Notice.

- 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:
 - 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
 - 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:
 - 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.
- Burden of proof. In any enforcement proceeding, the permittee seeking to establish the occurrence of an upset has the burden of proof.

Section D – Administrative Requirements

- 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 II 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.
- It is unlawful for any person to cause or permit any discharge of water contaminants from any water contaminant or point source located in Missouri in violation of sections 644.006 to 644.141 of the Missouri Clean Water Law, or any standard, rule or regulation promulgated by the commission. In the event the commission or the director determines that any provision of sections 644.006 to 644.141 of the Missouri Clean Water Law or standard, rules, limitations or regulations promulgated pursuant thereto, or permits issued by, or any final abatement order, other order, or determination made by the commission or the director, or any filing requirement pursuant to sections 644.006 to 644.141 of the Missouri Clean Water Law or any other provision which this state is required to enforce pursuant to any federal water pollution control act, is being, was, or is in imminent danger of being violated, the commission or director may cause to have instituted a civil action in any court of competent jurisdiction for the injunctive relief to prevent any such violation or further violation or for the assessment of a penalty not to exceed \$10,000 per day for each day, or part thereof, the violation occurred and continues to occur, or both, as the court deems proper. Any person who willfully or negligently commits any violation in this paragraph shall, upon conviction, be punished by a fine of not less than \$2,500 nor more than \$25,000 per day of violation, or by imprisonment for not more than one year, or both. Second and successive convictions for violation of the same provision of this paragraph by any person shall be punished by a fine of not more than \$50,000 per day of violation, or by imprisonment for not more than two (2) years, or both.

2. Duty to Reapply.

- a. If the permittee wishes to continue an activity regulated by this permit after the expiration date of this permit, the permittee must apply for and obtain a new permit.
- b. A permittee with a currently effective site-specific permit shall submit an application for renewal at least 180 days before the expiration date of the existing permit, unless permission for a later date has been granted by the Department. (The Department shall not grant permission

- for applications to be submitted later than the expiration date of the existing permit.)
- c. A permittees with currently effective general permit shall submit an application for renewal at least 30 days before the existing permit expires, unless the permittee has been notified by the Department that an earlier application must be made. The Department may grant permission for a later submission date. (The Department shall not grant permission for applications to be submitted later than the expiration date of the existing permit.)
- 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.
- 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.

- 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;
 - Having obtained this permit by misrepresentation or failure to disclose fully any relevant facts;
 - 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.
- 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:
 - Enter upon the permittee's premises where a regulated facility or activity is located or conducted, or where records must be kept under the conditions of the permit;
 - Have access to and copy, at reasonable times, any records that must be kept under the conditions of this permit;
 - Inspect at reasonable times any facilities, equipment (including monitoring and control equipment), practices, or operations regulated or required under this permit; and
 - 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.

- 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 noncompliance 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.

RECEIVED

SEP 3 0 2019

MISSOURI DEPARTMENT OF NATURAL RESOURCES tection Program
FORM A – APPLICATION FOR NONDOMESTIC PERMIT
UNDER MISSOURI CLEAN WATER LAW

FOR AGENCY USE ONLY CHECK NUMBER 28138 DATE RECEIVED FEE SUBMITTED SUBMITTE

UNDER MISSOURI CLEAN WATER LAW		1-20-11	\$430.0		
NOTE: PLEASE READ THE ACCOMPANYING	INSTRUCTIONS BEFORE COM	IPLETING THIS	FORM.		
1. This application is for: (Select only one.)					
An operating permit for a new or unpermitted facility. Nur					
Renewal of an operating permit. Permit number: MO	Ex	piration date:	Application Outfalls		
 Modification of an operating permit. Permit number: Mod 1.1 Is the appropriate fee included with the application? (See 			No No		
2. FACILITY	ee instructions for appropriate le	e.) 📺 res	LINU		
NAME	TELEPHONE NUMBER WITH AREA CODE				
	(417)-498-6684				
Kemin Industries Inc	`EMAIL joel.tichy@kemin.com				
PHYSICAL ADDRESS (PHYSICAL)	CITY	STATE	ZIP CODE		
519 North 3rd Street	Verona	МО	65769		
3. OWNER					
NAME	TELEPHONE NUMBER WITH AREA CODE 515-559-5485				
Kemin Industries Inc.	EMAIL				
	joel.tichy@kemin.com				
MAILING ADDRESS 1900 Scott Ave	CITY Des Moines	STATE	ZIP CODE 50317		
3.1 Do you want to review draft permit prior to public notice		✓ No	30017		
4. CONTINUING AUTHORITY	r tes	P 140			
NAME	TELEPHONE NUMBER WITH AREA CODE				
N/A					
NA.	EMAIL.				
MAILING ADDRESS	CITY	STATE	ZIP CODE		
5. OPERATOR	CERTIFICATE NUMBER	TELEGUONE AL	JMBER WITH AREA CODE		
TANK	CERTIFICATE HOMBER	TELEPHONE IN	JMBER WITH AREA CODE		
NA	EMAIL		,		
MAILING ADDRESS	CITY	STATE	ZIP CODE		
6. FACILITY CONTACT					
NAME	TITLE Sr. EHS Manager	515-559-54	JMBER WITH AREA CODE		
Joel Tichy	EMAIL EMAIL	1310-333-341			
•	joel.tichy@kemin.com				
7. ADDITIONAL FACILITY INFORMATION			······································		
7.1 Legal description of outfalls (Attach additional sheets, is	f necessary.) See Attached	Sheet			
001¼	T R		County		
UTM Coordinates Easting (X):	Northing (Y):				
For Universal Transverse Mercator (UTM), Zone 15 North refe	nrenced to North American Datum 19	983 (NAD83)			
002 1/4 1/4 Sec	T R		County		
0021/41/4 Sec UTM Coordinates Easting (X):	Northing (Y):		· ·		
003'\(\frac{1}{X} \) Sec\(\frac{1}{X} \): North	T R		County		
UTM Coordinates Easting (X): North	hing (Y):				
30%1/41/4 Sec	T	i Language Market	ं County		
CONTROL CONTRO	Northing (.).	—"	Obunity		
7.2 Primary standard industrial classification (SIC) and Nort		ion System (NA	ICS) codes		
001 - SIC 2048 and NAICS 311119	002 – SIC <u>2048</u>	_ and NAICS	311119		
003 – SIC 2048 and NAICS 311119	004 – SIC <u>2048</u>	_ and NAICS	311119		

MO 780-1479 (04-18)

8.	ADDITIONAL FORMS AND MAPS NECESSARY TO COMPLETE APPLICATION (Complete	e all applicable	forms.)		
۹.	Is your facility a manufacturing, commercial, mining or silviculture waste treatment facility? If yes, complete Form C or 2F. (2F is EPA's Application for Storm Water Discharges Associated with Industrial Activity.)	Yes 🗌	No 🗹		
.	Is application for stormwater discharges only? If yes, complete Form C or 2F.	Yes □	No 🗹		
	Is your facility considered a "primary industry" under EPA guidelines: If yes, complete Forms C or 2F and D.	Yes 🗹	No 🗌		
	Is wastewater land-applied? If yes, complete Form I.	Yes 🗹	No 🗆		
	Are biosolids, sludge, ash or residuals generated, treated, stored or land-applied? If yes, complete Form R.	Yes 🗹	No 🗌		
•	If you are a Class IA CAFO, disregard Parts D and E, above, but attach any revisions to the n	utrient manager	ment plan.		
i.	Attach a map showing all outfalls and the receiving stream at 1" = 2,000' scale.				
•	ELECTRONIC DISCHARGE MONITORING REPORT (eDMR) SUBMISSION SYSTEM O CFR Part 127 National Pollutant Discharge Elimination System (NPDES) Electronic Reporting				
heclio acc	nt limits and monitoring via an electronic system to ensure timely, complete, accurate and nation is one of the following for this application to be considered complete. (Check only one.) cess the facility participation package, visit dnr.mo.gov/env/wpp/edmr.htm . It completed and submitted with this permit application the required documentation to participate upreviously submitted required documentation to participate in the eDMR system and/or you curusubmitted a written request for a waiver from electronic reporting. See instructions for informate.	in the eDMR sy	vstem. eDMR system.		
•	DOWNSTREAM LANDOWNER(S) Attach additional sheets as necessary. See Instructions.		ni Sagganiaga ya S		
AME	PLEASE SHOW LOCATION ON MAP. SEE 8(D) ABOVE.				
	S CITY	STATE	ZIP CODE		
DORES	IS CITY	I dikit	Zir GOBE		
I1.	I certify that I am familiar with the information contained in this application. To the best of my information is true, complete and accurate. If granted this permit, I agree to abide by the Miss rules, regulations, orders and decisions subject to any legitimate appeal to the Missouri Clean to the applicant under the Missouri Clean Water Law.	ouri Clean Wate	er Law and all ssion available		
Elizabeth A Nelson (Paul Course) 515			-559-5100		
Elizabeth A. Nelson Pand General Counsel 515 SIGNATURE Elizabeth L. Nelson Pand General Counsel 9/			17/18		
(O 780-	BEFORE MAILING, PLEASE ENSURE ALL SECTIONS ARE COM ALSO INCLUDE APPLICABLE ADDITIONAL FORMS. Submitting an incomplete application may result in the application being				
	MAVE YOU MICLUDED THE FOLLOWING?		·数性		
	☐ Appropriate fees ☐ Form I (Irrigation)	if applicable	: UTAL LOOK		

Land Application Coordinates

Williams #2 – Section 23 T25N Range 26W

<u>Lattitude</u>

Longitude

36.885649

93.751449

Degrees, minutes @ Seconds

<u>Lattitude</u>

Longitude

N36 53 08

W93 45 05

<u>GPS</u>

Lattitude

Longitude

N 36 53.139

W 93 45.087

<u>UTM</u>

15N

<u>X</u> 433038

<u>Y</u> 4082451

Newman #1 - Section 24 T25N Range 26W

Lattitude

Longitude

36.86175

93.738162

Degrees, minutes @ Seconds

Lattitude

Longitude

N36 51 42

W93 44 17

GPS

Lattitude

Longitude

N 36 51.705

W 93 44.290

<u>UTM</u>

15N

X 434202

Y 4079790

Land Application Coordinates Newman #2 - Section 24 T25N

Range 26W

<u>Lattitude</u>

Longitude

36.886161

93.734886

Degrees, minutes @ Seconds

<u>Lattitude</u>

Longitude

N36 53 10

W93 44 05

<u>GPS</u>

Lattitude

Longitude

N 36 53.170

W 93 44.093

<u>UTM</u>

15N

<u>X</u> 434515

<u>Y</u> 4082496

Newman #3 – Section 24 T25N Range 26W

Lattitude

Longitude

36.862844

93.732362

Degrees, minutes @ Seconds

Lattitude

<u>Longitude</u>

N36 51 46

W93 43 56

<u>GPS</u>

Lattitude

Longitude

N 36 51.771

W 93 43.942

<u>UTM</u>

15N

X 434720

<u>Y</u> 4079908