

CERTIFIED COPY OF ORDER

STATE OF MISSOURI }
County of Boone } ea.

February Session of the January Adjourned

Term. 20 20

In the County Commission of said county, on the

27th

day of

February

20 20

the following, among other proceedings, were had, viz:

Now on this day, the County Commission of the County of Boone does hereby approve the attached Clear Creek Estates Development Agreement between Boone County and JQB Construction, Inc., in accordance with Section 1.7.5 of the Boone County Subdivision Regulations.

Terms of the agreement are stipulated in the attached Agreement. It is further ordered the Presiding Commissioner is hereby authorized to sign said Development Agreement.

Done this 27th day of February 2020.

ATTEST:


Brianna L. Lennon
Clerk of the County Commission



Daniel K. Atwill
Presiding Commissioner



Fred J. Parry
District I Commissioner



Janet M. Thompson
District II Commissioner

CLEAR CREEK ESTATES
DEVELOPMENT AGREEMENT

This Development Agreement (the "Agreement") is effective this 27 day of February, 2020, by and between JQB Construction, Inc., a Missouri For Profit Corporation ("Developer"), and the County of Boone, a Missouri political subdivision, (the "County").

A. RECITALS:

WHEREAS, Developer owns a parcel of property described on Exhibit "A" (the "Parcel"); and,

WHEREAS, Developer wants to develop the Parcel into single-family residential subdivision to be known as Clear Creek Estates; and,

WHEREAS, the Boone County Planning & Zoning Commission approved the Final Plat of Clear Creek Estates at their June 20, 2019 meeting subject to the condition that the Developer enter into an agreement to mitigate off-site roadway impacts generated by the development to the satisfaction of the Director of Resource Management prior to the Final Plat being placed on a County Commission agenda for receipt and acceptance of the dedicated public easements; and

WHEREAS, the parties have determined that significant road improvements close to and within the Parcel are needed to mitigate the impact of the Parcel's development; and,

WHEREAS, The County will require the Developer to make cash payment as a contribution toward those improvements, both in lieu of building those improvements and as conditions precedent to the County's approval of Developer's final plat; and,

WHEREAS, Developer agrees to make those payments in lieu of building the improvements so that its final plat can be approved; and,

WHEREAS, Developer would benefit from its performance of this agreement because performance of those conditions will make the Parcel more desirable; and,

WHEREAS, the parties intend this agreement to satisfy the condition placed on the approval of the Final Plat by the Planning & Zoning Commission; and

WHEREAS, the parties now enter this Development Agreement in accordance with Section 1.7.5 of the Boone County Subdivision Regulation to state the parties' obligations regarding Developer's contributions to traffic improvements.

NOW THEREFORE, in consideration of the mutual covenants and agreements herein, the parties agree as follows:

The Parties' Agreements:

1. Developer agrees that the estimated impact cost of the development of Clear Creek Estates due to required road improvements is Forty Thousand Dollars (\$40,000).
2. Developer agrees to pay this amount in lieu of building the off-site road improvements, in cash, to the Boone County Treasurer upon execution of this agreement. The County's receipt of this payment in full shall be a condition precedent to the County's performance of this agreement.
3. This payment in lieu of building road improvements shall be non-refundable.
4. Developer authorizes the County Commission, at the Commission's discretion, to determine the use of the \$40,000 on a future road project within the vicinity of the development.
5. This agreement and payment by Developer will satisfy the condition placed on approval of the Final Plat by the Boone County Planning & Zoning Commission.

General Term:

6. Other Law:

This agreement will not affect Developer's obligations under, or the operation of, any Boone County regulations or other law, including future changes, which will all remain in full effect.

7. Miscellaneous:

a. Signatories' Authority: Each person signing this Agreement on behalf of either of the parties represents that he or she has been duly authorized and empowered, by order, ordinance, or otherwise, to execute this Agreement and that all necessary action on behalf of that party to effectuate that authorization has been taken and done.

b. Amendments: The parties may amend or modify this Development Agreement only by written instrument duly executed by the parties.

c. Severability: If a court holds any part, term, or provision of this Development Agreement to be illegal or otherwise unenforceable, such illegality or unenforceability will not affect the validity of any other part, term, or provision, and the rights of the parties will be construed as if the part, term, or provision was never part of this Development Agreement.

d. Governing Law: The laws of the State of Missouri shall govern this agreement, and all actions to enforce this agreement shall be filed in the Circuit Court of Boone County, Missouri.

e. Complete Agreement: All negotiations, considerations, representations, and understandings between the parties are incorporated herein as the full and complete agreement of the parties.

f. Notice of Default: No party may declare a default of this agreement until it gives written notice to the other party and the defaulting party does not cure or start to cure the default within thirty days after receiving that notice. If the defaulting party has started and diligently proceeds to cure the default, even if that cure extends the above 30 days, then the non-defaulting Party will not bring legal action until the defaulting party fails to diligently complete that cure.

g. Waiver: No waiver of any provision of this agreement will constitute a waiver of any other provision, nor constitute a continuing waiver, nor be a waiver of any subsequent default or defaults unless provided for by a written amendment to this agreement signed by the parties.

h. Counterparts: This Development Agreement may be executed in two or more counterparts, each of which shall be deemed to be an original, and all of which together shall constitute one and the same instrument.

i. No Third-Party Rights: No person or entity who or which is not a party to this Agreement will have any right of action under this Agreement.

j. Immunity: Nothing contained in this Agreement constitutes a waiver of the County's sovereign immunity under any applicable law.

k. Notice: Any notice, demand, request, or other communication which may or shall be given or served by the parties shall be deemed to have been given or served on the date it is either deposited in the United States Mail, registered or certified, return

receipt requested, postage prepaid; or sent by facsimile transmission; or given to a nationally recognized overnight courier service for next business day delivery and addressed as follows:

If to the County:

Boone County Resource Management
Stan Shawver - Director
801 E. Walnut, Room 315
Columbia, MO 65201-7730

With a copy to:

CJ Dykhouse
County Counselor
801 E. Walnut, Suite 211
Columbia, MO 65201

If to JQB Construction, Inc:

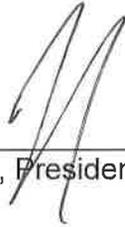
Johnathan Q. Bellmer
6209 Upper Bridle Bend Drive
Columbia, MO 65201

SO AGREED.

[Signatures follow on next page.]

JQB CONSTRUCTION, INC.

By:



J. Quinn Bellmer, President

**BOONE COUNTY
(By and through its County Commission):**

BY:



Daniel K. Atwill, Presiding Commissioner

ATTEST:



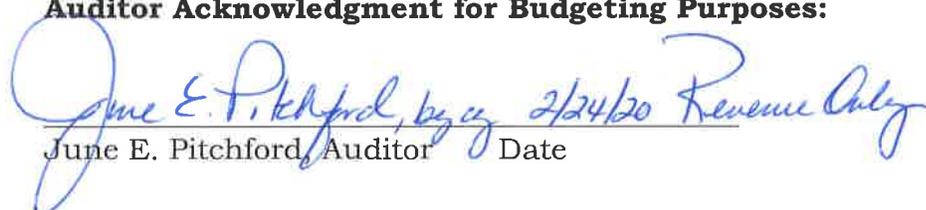
Brianna L. Lennon, County Clerk

Approved as to legal form:



C.J. Dykhouse - County Counselor.

Auditor Acknowledgment for Budgeting Purposes:



June E. Pitchford, Auditor Date

FEBRUARY 21, 2020

A TRACT OF LAND LOCATED IN PART OF THE EAST HALF OF SECTION 1, TOWNSHIP 47 NORTH, RANGE 13 WEST, AND PART OF THE NORTH HALF OF SECTION 6, TOWNSHIP 47 NORTH, RANGE 12 WEST, BOONE COUNTY, MISSOURI AND BEING PART OF THE LAND SHOWN IN THE SURVEY RECORDED IN BOOK 2958, PAGE 4 AND DESCRIBED BY THE WARRANTY DEED RECORDED IN BOOK 4816, PAGE 8 AND BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS:

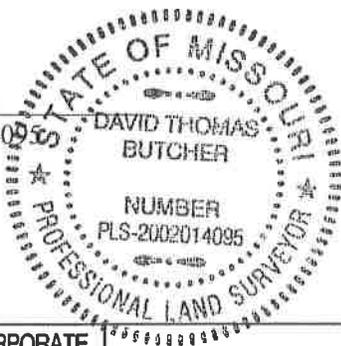
COMMENCING AT THE NORTH QUARTER CORNER OF SECTION 6, TOWNSHIP 47 NORTH, RANGE 12 WEST, AS SHOWN IN THE SURVEY RECORDED IN BOOK 494, PAGE 216 AND SAID SURVEY RECORDED IN BOOK 2958, PAGE 4, AND WITH THE NORTH LINES OF SAID SURVEY RECORDED IN BOOK 2958, PAGE 4, N 89°42'55"W, 51.46 FEET TO THE SOUTH QUARTER CORNER OF SECTION 31 TOWNSHIP 48 NORTH, RANGE 12 WEST; THENCE CONTINUING WITH THE NORTH LINE OF SAID SURVEY, N 88°45'40"W, 2959.40 FEET TO THE POINT OF BEGINNING:

THENCE FROM THE POINT OF BEGINNING AND LEAVING SAID NORTH LINE, S 27°48'55"W, 100.22 FEET; THENCE S 1°13'45"W, 69.24 FEET; THENCE S 16°00'25"E, 82.26 FEET; THENCE S 24°52'50"E, 203.97 FEET; THENCE S 40°28'25"E, 610.04 FEET; THENCE S 65°34'15"E, 429.61 FEET; THENCE S 0°42'30"W, 268.24 FEET; THENCE S 35°51'50"W, 168.05 FEET; THENCE S 13°28'10"E, 276.37 FEET; THENCE S 46°11'35"W, 756.39 FEET; THENCE S 4°31'15"W, 341.41 FEET TO THE SOUTH LINE OF SAID SURVEY RECORDED IN BOOK 2958, PAGE 4; THENCE WITH THE LINES OF SAID SURVEY, N 88°31'20"W, 945.56 FEET; THENCE S 1°30'30"W, 1592.75 FEET; THENCE S 89°32'50"W, 235.53 FEET; THENCE N 30°52'35"W, 111.57 FEET; THENCE 323.19 FEET ALONG A 1111.28-FOOT RADIUS CURVE TO THE RIGHT, SAID CURVE HAVING A CHORD N 22°28'00"W, 322.05 FEET; THENCE N 14°04'10"W, 151.96 FEET; THENCE 632.94 FEET ALONG A 1181.28-FOOT RADIUS CURVE TO THE LEFT, SAID CURVE HAVING A CHORD N 29°30'40"W, 625.40 FEET; THENCE N 37°20'40"W, 63.65 FEET; THENCE N 30°26'50"W, 81.80 FEET; THENCE N 54°46'50"W, 282.89 FEET; THENCE 491.53 FEET ALONG A 443.34-FOOT RADIUS NON-TANGENT CURVE TO THE RIGHT, SAID CURVE HAVING A CHORD N 16°02'10"W, 466.74 FEET; THENCE N 15°43'10"E, 937.62 FEET; THENCE 297.94 FEET ALONG A 1467.68-FOOT RADIUS CURVE TO THE LEFT, SAID CURVE HAVING A CHORD N 9°50'05"E, 297.43 FEET; THENCE N 4°10'35"E, 1271.21 FEET TO THE NORTH LINE OF SAID SURVEY; THENCE WITH SAID NORTH LINE, S 83°41'05"E, 872.64 FEET; THENCE S 88°45'40"E, 686.32 FEET TO THE POINT OF BEGINNING AND CONTAINING 153.63 ACRES.

David T. Butcher

DAVID T. BUTCHER, PLS-2002014095

2/21/2020
DATE



CROCKETT ENGINEERING CONSULTANTS 1000 W. Nifong Blvd. Building 1 Columbia, Missouri 65203 (573) 447-0292 www.crockettengineering.com	CORPORATE NUMBER 2000151304	CLEAR CREEK ESTATES, PLAT NO. 1 - EXHIBIT A
	DATE: 2/21/2020 PROJECT: 150391	SECTION 6, TOWNSHIP 47 NORTH, RANGE 12 WEST, BOONE COUNTY, MISSOURI

CERTIFIED COPY OF ORDER

STATE OF MISSOURI }
County of Boone } ea.

February Session of the January Adjourned

Term. 20 20

In the County Commission of said county, on the 27th day of February 20 20

the following, among other proceedings, were had, viz:

Now on this day, the County Commission of the County of Boone does hereby receive and accept the following subdivision plat and authorizes the Presiding Commissioner to sign it:

- Clear Creek Estates Plat No. 1. S1-T47N-R13W. A-2. JQB Construction, Inc., owner.
David T. Butcher, surveyor.

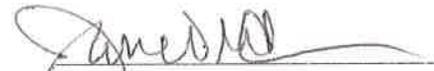
Done this 27th day of February 2020.

ATTEST:


Brianna L. Lennon
Clerk of the County Commission


Daniel K. Atwill
Presiding Commissioner

Absent
Fred J. Parry
District I Commissioner


Janet M. Thompson
District II Commissioner

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February Session of the January Adjourned

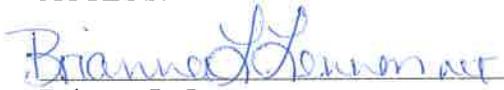
Term. 20 20

In the County Commission of said county, on the 27th day of February 20 20
the following, among other proceedings, were had, viz:

Now on this day, the County Commission of the County of Boone does hereby accept the attached recommendation for roadway maintenance within Clear Creek Estates Plat No. 1.

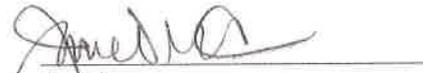
Done this 27th day of February 2020.

ATTEST:


Brianna L. Lennon
Clerk of the County Commission


Daniel K. Atwill
Presiding Commissioner


Fred J. Parry
District I Commissioner


Janet M. Thompson
District II Commissioner



Boone County Resource Management

ROGER B. WILSON BOONE COUNTY GOVERNMENT CENTER

801 E. WALNUT ROOM 315

COLUMBIA, MISSOURI 65201-7730

PLANNING (573) 886-4330 ★ INSPECTION (573) 886-4339 ★ ENGINEERING (573) 886-4480

FAX (573) 886-4340

STAN SHAWVER, DIRECTOR

JEFF MCCANN, CHIEF ENGINEER

MEMO

DATE: February 6, 2020

TO: Boone County Commission

FROM: Jeff McCann, P.E., Chief Engineer, Boone County Resource Management *jm*

RE: Recommendation for Roadway Maintenance Acceptance
Clear Creek Estates Plat 1

Commissioners,

Attached for your consideration for roadway maintenance acceptance are the New Roadway Construction Final Reports for the following roads within Clear Creek Estates Plat 1, NE ¼ Section 1, Township 47 North, Range 13 West and NW ¼ Section 6, Township 47 North, Range 12 West, Boone County Missouri:

- Mayacama Lane – 370 Feet
- Adelaide Drive – 1,161 Feet
- Adelaide Court – 1,195 Feet
- Cabot Links Drive – 1,972 Feet
- Cabot Links Court – 898 Feet
- Montecito Drive – 1,232 Feet
- Cordevalle Court – 1,750 Feet

These roads were constructed by Emery Sapp & Sons, Inc. for JQB Construction, Inc. in accordance with the approved construction plans designed by Crockett Engineering Consultants, LLC.

**NEW ROADWAY CONSTRUCTION
FINAL REPORT**

Final Inspection Date: **February 3, 2020**

Date letter requesting acceptance received: **September 6, 2019**

Development Name: **Clear Creek Estates**

Roadway Name: **Mayacama Lane**

Sheet 1 of 7

(If more than one roadway, fill out a separate form for each road.)

DESCRIPTION AND CONDITIONS OF THE ROADWAY:

Roadway Surface: **Concrete**

Roadway Width: **32' B-B**

(If Curb & Gutter, measure back of curb to back of curb)

Shoulder Width: **N/A**

Type of Material: **N/A**

Length of Roadway: **370'**

ROW Width: **50'**

Cul-de-sac Surface: **N/A**

Radius: **N/A**

Sidewalks: Yes No

Curb & Gutter: None Rollback Barrier

Comments: _____

Jell McEann

Chief Engineer's Signature

2/6/2020

Date

**NEW ROADWAY CONSTRUCTION
FINAL REPORT**

Final Inspection Date: February 3, 2020

Date letter requesting acceptance received: September 6, 2019

Development Name: Clear Creek Estates

Roadway Name: Adelaide Drive

Sheet 2 of 7

(If more than one roadway, fill out a separate form for each road.)

DESCRIPTION AND CONDITIONS OF THE ROADWAY:

Roadway Surface: Concrete

Roadway Width: 32' B-B

(If Curb & Gutter, measure back of curb to back of curb)

Shoulder Width: N/A

Type of Material: N/A

Length of Roadway: 1,161'

ROW Width: 50'

Cul-de-sac Surface: N/A

Radius: N/A

Sidewalks: Yes No

Curb & Gutter: None Rollback Barrier

Comments: _____

Jell McCann

Chief Engineer's Signature

2/6/2020

Date

**NEW ROADWAY CONSTRUCTION
FINAL REPORT**

Final Inspection Date: **February 3, 2020**

Date letter requesting acceptance received: **September 6, 2019**

Development Name: **Clear Creek Estates**

Roadway Name: **Adelaide Court**

Sheet 3 of 7

(If more than one roadway, fill out a separate form for each road.)

DESCRIPTION AND CONDITIONS OF THE ROADWAY:

Roadway Surface: **Concrete**

Roadway Width: **32' B-B**

(If Curb & Gutter, measure back of curb to back of curb)

Shoulder Width: **N/A**

Type of Material: **N/A**

Length of Roadway: **1,195'**

ROW Width: **50'**

Cul-de-sac Surface: **N/A**

Radius: **N/A**

Sidewalks: Yes No

Curb & Gutter: None Rollback Barrier

Comments: _____

Jell McCann

Chief Engineer's Signature

2/6/2020

Date

**NEW ROADWAY CONSTRUCTION
FINAL REPORT**

Final Inspection Date: February 3, 2020

Date letter requesting acceptance received: September 6, 2019

Development Name: Clear Creek Estates

Roadway Name: Cabot Links Drive

Sheet 4 of 7

(If more than one roadway, fill out a separate form for each road.)

DESCRIPTION AND CONDITIONS OF THE ROADWAY:

Roadway Surface: Concrete

Roadway Width: 32' B-B

(If Curb & Gutter, measure back of curb to back of curb)

Shoulder Width: N/A

Type of Material: N/A

Length of Roadway: 1,972'

ROW Width: 50'

Cul-de-sac Surface: N/A

Radius: N/A

Sidewalks: Yes No

Curb & Gutter: None Rollback Barrier

Comments: _____

Jell McEann

Chief Engineer's Signature

2/6/2020

Date

**NEW ROADWAY CONSTRUCTION
FINAL REPORT**

Final Inspection Date: February 3, 2020

Date letter requesting acceptance received: September 6, 2019

Development Name: Clear Creek Estates

Roadway Name: Cabot Links Court

Sheet 5 of 7

(If more than one roadway, fill out a separate form for each road.)

DESCRIPTION AND CONDITIONS OF THE ROADWAY:

Roadway Surface: Concrete

Roadway Width: 32' B-B

(If Curb & Gutter, measure back of curb to back of curb)

Shoulder Width: N/A

Type of Material: N/A

Length of Roadway: 898'

ROW Width: 50'

Cul-de-sac Surface: Concrete

Radius: 40'

Sidewalks: Yes No

Curb & Gutter: None Rollback Barrier

Comments: _____

Jill McCann

Chief Engineer's Signature

2/6/2020

Date

**NEW ROADWAY CONSTRUCTION
FINAL REPORT**

Final Inspection Date: February 3, 2020

Date letter requesting acceptance received: September 6, 2019

Development Name: Clear Creek Estates

Roadway Name: Montecito Drive

Sheet 6 of 7

(If more than one roadway, fill out a separate form for each road.)

DESCRIPTION AND CONDITIONS OF THE ROADWAY:

Roadway Surface: Concrete

Roadway Width: 32' B-B

(If Curb & Gutter, measure back of curb to back of curb)

Shoulder Width: N/A

Type of Material: N/A

Length of Roadway: 1,232'

ROW Width: 50'

Cul-de-sac Surface: N/A

Radius: N/A

Sidewalks: Yes No

Curb & Gutter: None Rollback Barrier

Comments: _____

Jell Mc Cann

Chief Engineer's Signature

2/6/2020

Date

**NEW ROADWAY CONSTRUCTION
FINAL REPORT**

Final Inspection Date: February 3, 2020

Date letter requesting acceptance received: September 6, 2019

Development Name: Clear Creek Estates

Roadway Name: Cordeville Court

Sheet 7 of 7

(If more than one roadway, fill out a separate form for each road.)

DESCRIPTION AND CONDITIONS OF THE ROADWAY:

Roadway Surface: Concrete

Roadway Width: 32' B-B

(If Curb & Gutter, measure back of curb to back of curb)

Shoulder Width: N/A

Type of Material: N/A

Length of Roadway: 1,750'

ROW Width: 50'

Cul-de-sac Surface: N/A

Radius: N/A

Sidewalks: Yes No

Curb & Gutter: None Rollback Barrier

Comments: _____

Jell McCann

Chief Engineer's Signature

2/6/2020

Date

CERTIFIED COPY OF ORDER

STATE OF MISSOURI }
County of Boone } ea.

February Session of the January Adjourned

Term. 20 20

In the County Commission of said county, on the 27th day of February 20 20

the following, among other proceedings, were had, viz:

Now on this day, the County Commission of the County of Boone does hereby approve the Joint Storm Water Management Plan and authorizes the Presiding Commissioner to sign Form L – Application for Co-Permittee Small MS4 General Permit and Form M – Application for Storm Water Permit.

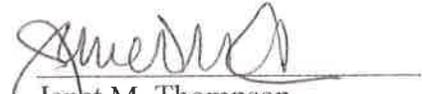
Done this 27th day of February 2020.

ATTEST:


Brianna L. Lennon
Clerk of the County Commission


Daniel K. Atwill
Presiding Commissioner

Absent
Fred J. Parry
District I Commissioner


Janet M. Thompson
District II Commissioner



JOINT STORMWATER MANAGEMENT PROGRAM

MS4 PERMIT #MO-0136557

Coverage for:

Boone County, Missouri

City of Columbia, Missouri

University of Missouri (MU)

Prepared by:

Boone County Resource Management

City of Columbia Utilities Department

MU Department of Environmental Health & Safety

February 2020

JOINT STORMWATER MANAGEMENT PROGRAM

Boone County/City of Columbia/MU

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D. REQUIREMENTS

This Joint Stormwater Management Plan (SWMP) has been developed in accordance with The Stormwater Phase II Final Rule requirements specified in Part D of the site-specific permit MO-0136557 for discharges from small regulated Municipal Separate Storm Sewer Systems (MS4s), as well as per state regulation 10 CSR 20-6.200 and federal regulations 40 CFR Parts 9 and 122. The three co-permittees, Boone County, City of Columbia and MU, have developed and implemented this program in order to protect water quality and effectively reduce stormwater pollutant runoff within their respective jurisdictions to the maximum extent practicable. MU will serve as the coordinating authority for this joint SWMP; however, MU does not have regulatory authority over either of the other co-permittees. Responsibility for implementation of all MCMs will be shared jointly among the three co-permittees. This plan will be reviewed on an annual basis and updated as necessary.

IN ACCORDANCE WITH PART D OF THE PERMIT, THE PERMITTEES WILL:

- Develop a SWMP that shall contain each of the six (6) MCMs described in Part E – Minimum Control Measures of the permit including all applicable requirements specified in Sections D.1.A –D.1.d. of the permit.
- Fully implement each MCM in accordance with the approved SWMP.
- Revise the SWMP when necessary and submit the revised SWMP to the Water Protection Program's MS4 Coordinator for review and rating.
- Implement the SWMP on all new areas added to the MS4 area as expeditiously as practicable.
- List in the MS4 SWMP Report any transfer of ownership, continuing authority, or responsibility that occurs in the MS4 area.

This plan contains Best Management Practices (BMPs) and Measurable Goals (MGs) for the six Minimum Control Measures (MCMs) described in Sections E.1-E.6 of the permit. Measurable goals are selected to evaluate the effectiveness of individual control measures and the stormwater management program as a whole.

BMPs will be described as follows:

BMP: Best Management Practice

MG: Measurable Goal (Responsible Permittee*—Status**)

* Responsible permittee: Met by all co-permittees, unless otherwise noted

** Status: All are ongoing measurable goals, unless otherwise noted

CONTACTS

The individuals listed below are the persons primarily responsible for the content of this SWMP and are listed as specified by section D.1.d. of the permit.

Boone County:

Nicki Fuemmeler
Stormwater Coordinator
Boone County Resource Management
801 E. Walnut, Room 315
Columbia, MO 65201
(573) 886-4330
nfuemmeler@boonecountymo.org

City of Columbia:

Kori Thompson
Engineering Supervisor
Sewer and Storm Water Utilities
City of Columbia
Wastewater Treatment Plant
4900 Gillespie Bridge Rd
Columbia, MO 65201
(573) 441-5530
kori.thompson@como.gov

University of Missouri:

Ted Haeussler
Environmental Affairs Professional
MU Environmental Health & Safety
180 General Services Building
900 East Stadium Blvd
Columbia, MO 65211
(573) 882-7018
haeusslert@missouri.edu

BACKGROUND INFORMATION

POPULATION AND LAND USE:

Boone County has a population of 162,642 (2010 US census). The largest city is Columbia, with a population over 108,000. Columbia is fifth largest city, and the second fastest growing community in Missouri. The City's current land mass is over 60 mi², with an annexation rate of 0.6 mi² per year.

Columbia is the home of the University of Missouri, with more than 30,000 students, as well as Stephens College (862 students) and Columbia College (1,276 students). Other towns in Boone County include Centralia (4,027), Ashland (3,707), Hallsville (1,491), Sturgeon (872) Rocheport (239), Harrisburg (266), Hartsburg (103), Pierpont (76), McBaine (10) and Huntsdale (32).

Approximately 27% of the population lives in the rural areas of Boone County. According to the 2017 US Agriculture Census, there are over 1,184 farms in the county with an average size of 180 acres. The total land used for farming is almost 212,732 acres.

CLIMATE:

The average winter temperature is 20.9° F (in January). In summer, the average daily maximum temperature is 87.9° F (in July). The highest recorded temperature of 113.4 degrees occurred on July 14, 1954.

The total annual rainfall precipitation is between 34 and 50 inches. The heaviest recorded 1-day rainfall was 5.37 inches on August 12, 1993. Thunderstorms are common from April to July. The average seasonal snowfall is between 18 and 24 inches. Most snowfall occurs between December and February (Missouri Climate Center and City of Columbia Climate Action & Adaption Plan, 2018).

The average relative humidity in mid-afternoon is about 70%. Humidity is higher at night, peaking at dawn with an average of 83%. It is sunny 66% of the time in summer and 49% of the time in winter. The growing season in Boone County is 192 days. The first frost is around the second or third week in October, while the last frost is around the second or third week of April (Boone County Soil Survey, 2005, Missouri Climate Center).

HYDROLOGY:

Boone County is bordered by the Missouri River on the southwest, and by Cedar Creek on the east. There are twenty-three sub-basins that are entirely or partially within the county boundaries. Drainage is mainly towards the Missouri River, from northeast to southwest. However, the extreme northeastern section of the county (Centralia) flows towards the Salt River. The largest watershed is Perche Creek which drains more than 70% of the landmass.

Hinkson Creek, a 90 mi² watershed, is the single largest contributor to Perche Creek. Hinkson is fed by Grindstone Creek, Flat Branch, Hominy Branch, County House Branch, Meredith Branch, and Mill Creek. More than 90,000 people live in the Hinkson Creek Watershed.

Between Columbia and Ashland is the Bonne Femme Watershed. This area is well known for karst topography, with numerous caves, sinkholes and losing streams. The area also contains several state parks. The Bonne Femme Creek feeds the cave system for the Devil's Icebox, and Rockbridge State Park. Also, in this area is Three Creeks Conservation Area, maintained by the Missouri Department of Conservation. The streams running through these parks are designated as Outstanding State Resource Waters.

WATER QUALITY AND TMDLs IN BOONE COUNTY:

Several area streams do not support warm water aquatic life or whole-body contact recreation. These streams have been listed on the State's List of Impaired Waters as required by section 303(d) of the Clean Water Act (CWA). Once a waterbody is listed, then a Total Maximum Daily Load (TMDL) must be developed to set the maximum amount of pollution that can enter the stream and still maintain water quality standards. The following table shows the waterbodies in Boone County that are on the 2018 Impaired Waters List (Section 303(d)).

Waterbody Name	Pollutant	Source	Miles/acres impaired	TMDL
Bonne Femme Creek	Bacteria	Rural NPS	14.8	
Cedar Creek	Unknown	Unknown	37.4	
Little Bonne Femme Creek	Bacteria	Unknown	9.0	
Bass Creek	Bacteria	Rural NPS	4.4	
Foster Creek	Ammonia	Ashland WWTP	2.0	
Fowler Creek	Low D.O.	Unknown	6.0	
Gans Creek	Bacteria	Unknown	5.5	
Grindstone Creek	Bacteria	Urban/Rural NPS	2.5	
Hinkson Creek	Unknown	Urban Runoff	18.0	Developed

Hinkson Creek	Bacteria	Urban/Rural NPS	26.4	
Hominy Branch	Bacteria	Runoff-various	1.0	
Turkey Creek	Bacteria	Unknown	6.3	
Lake of the Woods	Mercury	Atmospheric	3.0	
Philips Lake	Mercury	Atmospheric	32.0	

In streams where the identified pollutant is bacteria, the sources could be from wildlife or agriculture in the rural areas, leaky septic systems, sanitary sewer or lagoon overflows, or cross connected pipes in the suburban areas.

According to the 2017 National Agricultural Statistics Service (NASS) there were 22,370 head of cattle, 88,873 hogs and pigs, 1,441 sheep, 1,664 goats, 1,937 horses and ponies and 13,316 poultry in the county.

E. MINIMUM CONTROL MEASURES

1. MCM 1: PUBLIC EDUCATION AND OUTREACH

An informed and knowledgeable community is a key component to the success of a stormwater management program. The public education and outreach component coordinates a variety of activities and partners to support all the minimum control measures. Education and outreach are the backbone to a comprehensive stormwater management program that educates the public in many formats and on a variety of levels. Outreach can be printed material, online material, activities, training and events. Those receiving the education can be K-12 and college students, employees, interest groups, elected officials and the general public. Connecting water quality to our everyday activities through a variety of elements can affect change in behavior and awareness.

Permit Requirement: Implement a coordinated public education program which involves the distribution of educational materials to the community, or equivalent outreach activities about the impacts of stormwater discharges on water bodies and steps the public can take to reduce pollutants in the stormwater runoff.

Raising citizen's understanding and awareness of stormwater impacts and issues is the primary goal of MCM 1 and the permittee's level of commitment to education and outreach programs is significant.

This requirement continues to be met by each of the three co-permittees with the following BMPs and associated Measurable Goals.

BMP 1: Maintain an education and outreach program to educate strategically targeted audiences about annually selected topics that are pertinent and timely to local water quality issues. The audiences will include municipal inspectors, contractors, developers, engineers, interest groups, general public, and schools. The intent of this BMP is to create and maintain a public that is conscientious of the impacts that their behaviors have on local watersheds in order to reduce pollution from residential and industrial activities.

MG: Maintain a list of all education and outreach programs conducted throughout the year.

BMP 2: Develop and distribute education and outreach materials.

MG: Develop brochures, fact sheets, public service announcements, etc. Update educational materials as necessary to remain current on local water quality issues.

MG: Prepare and distribute materials at events. Review and update educational materials as necessary.

BMP 3: Conduct education and outreach activities.

MG: The Permittees will staff at least ten (10) community events (e.g., Earth Day), make presentations to citizen's groups and present to schools and industry (e.g. Stream table demonstrations).

BMP 4: Maintain Hinkson Creek GIS Habitat Viewer.

MG: Maintain Hinkson Creek GIS Habitat viewer by reviewing annually and updating when pertinent data becomes available. (Boone County)

BMP 5: The co-permittees will provide and continue to maintain dedicated stormwater resource websites. These websites educate the community about the impacts of stormwater runoff, permit and inspection requirements, and general watershed information.

MG: Maintain stormwater resource websites such as:
www.como.gov/utilities/stormwater, www.showmeboone.com/stormwater,
<http://ehs.missouri.edu/ehs/env/stormwater>, www.helpthehinkson.org and
www.cavewatershed.org by reviewing and updating as necessary.

BMP 6: Many household products are hazardous because they contain chemicals that are toxic, corrosive, flammable, or reactive. Improper disposal can cause these products to find their way into receiving streams and lakes. The co-permittees will provide the public with proper, publically announced, disposal opportunities to minimize the presence of these chemicals in local waterways.

MG: Hold a special co-permittee coordinated Household Hazardous Waste collection event annually as funding permits. This event may include the collection of used tires and e-waste.

MG: Continue the twice a month City of Columbia Household Hazardous Waste Collection Program. This collection event takes place between and including the months of April through November. (City of Columbia)

2. MCM 2 - PUBLIC INVOLVEMENT/PARTICIPATION

The public has a role in the success of a stormwater management program. The public can participate through public hearings and public meetings. The public has the opportunity to be involved in various stormwater quality awareness and improvement activities. Furthermore, a developing avenue for participation and involvement is interaction through social media.

Permit Requirement: Implement an effective public involvement/participation program that complies with State and local public notice requirements.

This requirement continues to be met by each of the three co-permittees with the following BMPs and associated Measurable Goals.

BMP 1: Implement an effective public involvement/participation program that allows citizens and civic groups to provide input concerning policies and complies with state and local public notice requirements.

MG: Hold public hearings/stakeholder meetings when properties are annexed or request a change in zoning, during the platting process, and throughout the project design stage. (City of Columbia, Boone County)

MG: Annually publicize and present the Campus Master Plan, which identifies planning principles and includes current and proposed construction projects. (MU)

BMP 2: Select a targeted topic for each calendar year.

MG: Select a specific topic to focus on for year. The topic may be based on issues that are of highest importance for that year.

BMP 3: Continue to implement and maintain public involvement/participation activities to engage citizens and continue to form partnerships that reach a diverse audience.

MG: Promote Adopt-A-Spot/Adopt-A-Road programs, City of Columbia Volunteer Services, public service announcements, and community clean-up events.

MG: Maintain social media and websites for promotion of public involvement and participation to facilitate conversation of pertinent topics.

BMP 4: Many household products are hazardous because they contain chemicals that are toxic, corrosive, flammable, or reactive. Improper disposal can cause these products to find their way into receiving streams and lakes. The co-permittees will provide the public with proper, publically announced, disposal opportunities to minimize the presence of these chemicals in local waterways.

MG: Hold a special co-permittee coordinated Household Hazardous Waste collection event annually as funding permits. This event may include the collection of used tires and e-waste.

MG: Continue the twice a month City of Columbia Household Hazardous Waste Collection Program. This collection event takes place between and including the months of April through November. (City of Columbia)

3. MCM 3 - ILLICIT DISCHARGE DETECTION AND ELIMINATION

Illicit discharges enter the system through either direct or indirect connections. Direct connections are usually vehicular accidents and first responders continue to be educated on clean up techniques. Other direct connections happen mistakenly and require education on the spot. A robust program to detect and address indirect wastewater connections is underway. The necessary legal measures are in place to prohibit and enforce illicit discharges. Addressing indirect wastewater connections and educating the public continue to be primary activities for this measure.

Permit Requirement: Develop, implement and enforce a program to detect and eliminate illicit discharges into the regulated MS4. The responsibility will be shared jointly among the three co-permittees.

This requirement continues to be met by each of the three co-permittees with the following BMPs and associated Measurable Goals.

BMP 1: Continue to maintain stormwater drainage system map(s) with all outfalls, pipes, inlets and associated attributes by reviewing and updating.

The purpose of his BMP is to document the location of all new and existing stormwater outfalls, pipes, inlets, and other associated attributes for locational and logistical reference. A geospatial tool helps permittees understand the impacts of illicit discharges to the MS4.

MG: The co-permittees will review new development and update stormwater drainage system map(s) accordingly.

BMP 2: Effectively prohibit, through IDDE ordinance, or other IDDE regulatory mechanisms, non-stormwater discharges into the stormwater drainage system and implement appropriate enforcement procedures and actions.

The purpose of his BMP is to maintain water quality by restricting certain discharges into the stormwater drainage system.

MG: Document and track IDDE Ordinance/Regulatory Mechanism enforcements. Document any illicit discharges and illegal dumping enforcement actions taken.

MG: Review IDDE Ordinances/Regulatory Mechanisms annually and update as needed.

BMP 3: Evaluate certain non-stormwater discharges or flows, or certain categories of non-stormwater discharges or flows, to determine if they are significant contributors of pollutants to the MS4.

MG: Address occasional incidental non-stormwater discharges on a case-by-case basis to determine whether such discharges may appropriately be directed to the storm sewer system. The co-permittees have not identified any of the listed non-stormwater discharges as significant contributors to the regulated MS4.

BMP 4: Maintain an implementation schedule to detect and address incidental non-stormwater discharges including discharges from illegal dumping and spills to the MS4.

The purpose of this BMP is to detect cross connections in the sanitary sewer system and other discharges to the MS4.

MG: Each permittee will visually inspect a minimum of 20% of permitted MS4 outfalls each year on a rotating basis.

MG: Continue plan to detect and address non-stormwater discharges which may include on-site visual inspections, smoke and dye testing, closed circuit television (CCTV) inspections.

MG: Track non-stormwater discharges reported by the public through provided outlets via web-based reporting and hotlines.

BMP 5: Inform public employees, businesses, and the general public of the hazards associated with illegal discharges and improper disposal of waste.

MG: Include this information as an element in the outreach, education and municipal training programs. Update this information as necessary.

4. MCM 4 - CONSTRUCTION SITE STORMWATER RUNOFF CONTROLS

Construction site runoff is a publicly visible element of the stormwater management program. Regulatory mechanisms are in place to control construction site runoff. Site plan review and inspections for construction site runoff control are ongoing. Each permittee continues to refine internal procedures for inspection and enforcement. Public concerns that are received are inspected in a timely manner.

Permit Requirement: Develop, implement and enforce a program that reduces pollutants in stormwater runoff to the MS4 from construction activities that result in a land disturbance of greater than or equal to one acre.

Construction activities that result in a land disturbance of greater than or equal to one acre have the potential to contribute more pollutants to local waterways.

The purpose of the construction site stormwater runoff control MCM is to prevent soil, construction material, and other materials from leaving the construction site and entering the stormwater drainage system. Sediment is the primary pollutant of concern.

This requirement continues to be met by each of the three co-permittees with the following BMPs and associated Measurable Goals.

BMP 1: Require an MDNR/City land disturbance permit for sites that will disturb one acre or greater. The purpose of this BMP is to ensure that proper disposal mechanisms are utilized to control runoff from construction sites disturbing greater than one acre.

MG: Track the number of land disturbance permits issued each year.

BMP 2: Enforce ESC/Land Disturbance Ordinance/Regulatory Mechanism (City Chapter 12 Land Disturbance Ordinance, County Chapter 24 Erosion and Sediment Control Ordinance, MU Business Policy and Procedure Manual Chapter 7, Section 7.001).

MG: Track inspections and enforcements.

BMP 3: Maintain land disturbance regulatory mechanism.

MG: Conduct an annual review of regulatory mechanism and report any changes.

BMP 4: Develop and maintain stormwater design manual(s) requiring construction site operators to implement appropriate erosion and sediment control best management practices.

The purpose of this BMP is to require construction site operators to implement appropriate erosion and sediment control best management practices to improve downstream water quality.

MG: Implement and maintain stormwater design manuals. Review annually and update as necessary.

BMP 5: Require construction site operators to control waste and erosion on construction sites by requiring Stormwater Pollution Prevention Plans (SWPPPs)/soil erosion control plans.

MG: Document SWPPP site plan and SWPPP reviews and record any comments provided to the construction company pertaining to the contractor's SWPPP. (Boone County and University of Missouri)

MG: Document soil erosion control plan and reviews. Record any comments provided to the construction company pertaining to erosion and sediment control measures. (City of Columbia)

BMP 6: Maintain procedures for receipt and consideration of information submitted by the public. Maintain websites and hotline phone numbers.

MG: Track information submitted by the public.

BMP 7: Conduct site inspections to ensure construction site operators implement appropriate erosion and sediment control best management practices.

MG: Inspect 100% of locally permitted sites.

5. MCM 5 - POST-CONSTRUCTION STORMWATER MANAGEMENT IN NEW DEVELOPMENT AND REDEVELOPMENT

The necessary regulatory mechanisms are in place to require post construction runoff control for all new development. Opportunities to retrofit post construction runoff controls are identified and implemented when possible. Maintenance of structural BMPs (Best Management Practices) is a critical component to the success of post construction runoff controls. Inventory and inspection of BMPs encourages proper maintenance which supports pollutant and runoff reductions.

Permit Requirement: Develop, implement and enforce a program to address the quality of stormwater runoff from new development and redevelopment projects that disturb greater than or equal to one acre. This includes projects less than one acre which are part of a larger common plan for development or sale that discharge into the regulated MS4.

This requirement continues to be met by each of the three co-permittees with the following BMPs and associated Measurable Goals.

BMP 1: Identify and develop strategies including structural and/or non-structural BMPs to improve the quality of stormwater runoff.

MG: Continue to implement and track water quality improvement projects, BMP monitoring projects, LEED building standards, etc.

MG: Track permits for installation of private BMPs for development and redevelopment projects. (City of Columbia, Boone County)

BMP 2: Continue to maintain Stormwater Management/Water Quality Manual or equivalent.

MG: Conduct on-going reviews of the Stormwater Management/Water Quality Manuals or equivalent and/or update as necessary.

BMP 3: Continue to maintain stormwater ordinance(s) or other regulatory mechanism(s) to address post-construction runoff from new development and redevelopment projects.

MG: Review and update as necessary.

BMP 4: Continue to maintain Stream Buffer Ordinances and MU Stormwater Master Plan.

MG: Review the ordinances and master plan and revise standards as necessary.

BMP 5: Promote adequate long-term operation and maintenance of BMPs by maintaining an operation and maintenance schedule of post-construction BMPs.

The purpose of this BMP is to utilize inspection and maintenance of post-construction stormwater controls to improve downstream water quality.

MG: Maintain an inventory, a maintenance schedule, and an inspection schedule of post-construction BMPs.

MG: Inspect BMPs according to the operation and maintenance schedule.

MG: Track maintenance of all structural and non-structural BMPs.

BMP 6: Many household products are hazardous because they contain chemicals that are toxic, corrosive, flammable, or reactive. Improper disposal can cause these products to find their way into receiving streams and lakes. The co-permittees will provide the public with proper, publically announced, disposal opportunities to minimize the presence of these chemicals in local waterways.

MG: Hold a special co-permittee coordinated Household Hazardous Waste collection event annually as funding permits. This event may include the collection of used tires and e-waste.

MG: Continue the twice a month City of Columbia Household Hazardous Waste Collection Program. This collection event takes place between and including the months of April through November. (City of Columbia)

6. MCM 6 - POLLUTION PREVENTION/GOOD HOUSEKEEPING FOR MUNICIPAL OPERATIONS

All permittees' employees receive regular training on maintaining facilities and properly using and storing potential pollutants. In addition to training, operations personnel continue to improve road salt application methods, street sweeping procedures, and site maintenance to reduce pollutants to our waterways. Pollution prevention opportunities are extended to the greater community through household hazardous waste drop offs, recycling programs, and education and outreach efforts.

Permit Requirement: Develop and implement an operation and maintenance program that includes a training component and has the ultimate goal of preventing and/or reducing pollutant runoff from municipal operations, including those not currently required to be permitted as associated with industrial activities. The program must include employee training to prevent and reduce storm water pollution from activities such as park and open space maintenance, fleet and building maintenance, new construction and land disturbances, and storm water system maintenance.

This requirement continues to be met by each of the three co-permittees with the following BMPs and associated Measurable Goals.

BMP 1: Maintain operation and maintenance schedule for operation and maintenance program.

MG: Review annually hazardous materials management and SPCC operation and maintenance schedules. Update schedules as necessary. (Boone County, MU)

MG: Participate in facility safety inspection audits to identify any deficiencies related to stormwater management and water quality protection items at various City facilities. Provide recommendations and/or corrective measures. (City of Columbia)

BMP 2: The co-permittees will continue to identify and train all impacted employees.

MG: Each co-permittee will maintain and update a list of impacted employees.

BMP 3: Review and update pollution prevention/good housekeeping training presentation(s).

MG: Annually review and update as necessary training presentation(s) with current regulatory information, procedures, and projects associated with pollution prevention/good housekeeping.

BMP 4: Continue to schedule and conduct Pollution Prevention training.

MG: Train all impacted employees annually. The training will be provided in person or via electronic methods. Maintain an attendance roster and training date for each training session.

BMP 5: Many household products are hazardous because they contain chemicals that are toxic, corrosive, flammable, or reactive. Improper disposal can cause these products to find their way into receiving streams and lakes. The co-permittees will provide the public with proper, publically announced, disposal opportunities to minimize the presence of these chemicals in local waterways.

MG: Hold a special co-permittee coordinated Household Hazardous Waste collection event annually as funding permits. This event may include the collection of used tires and e-waste.

MG: Continue the twice a month City of Columbia Household Hazardous Waste Collection Program. This collection event takes place between and including the months of April through November. (City of Columbia)



MISSOURI DEPARTMENT OF NATURAL RESOURCES
 WATER PROTECTION PROGRAM
**FORM L – APPLICATION FOR CO-PERMITTEE PHASE 2 SMALL MS4
 GENERAL PERMIT (FORM M MUST ALSO BE SUBMITTED)**

FOR AGENCY USE ONLY	
CHECK NUMBER OR JETPAY CONFIRMATION #	
DATE RECEIVED	FEE SUBMITTED

**PLEASE READ ALL THE ACCOMPANYING INSTRUCTIONS BEFORE COMPLETING THIS FORM.
 SUBMITTAL OF AN INCOMPLETE APPLICATION MAY RESULT IN THE APPLICATION BEING RETURNED.
 (FOR INDIVIDUAL SMALL MS4, PLEASE FILL OUT FORM K INSTEAD OF FORM M.)**

1. REASON FOR APPLICATION:

- a. These municipalities/area(s) are currently operating a separate storm sewer system under MO – 0136557.
- b. This is a new permit.

2. NAMES OF EACH MUNICIPALITY/AREA TO BE INCLUDED (Attach additional sheets as necessary)

NAME OF MUNICIPALITY/AREA MS4 See attached			
ADDRESS (HEADQUARTERS PHYSICAL LOCATION) See attached	CITY	STATE	ZIP CODE

3. OWNER OF EACH MUNICIPALITY/AREA TO BE INCLUDED (Attach additional sheets as necessary)

OWNER #1 NAME See attached		TELEPHONE NUMBER WITH AREA CODE	
EMAIL ADDRESS See attached			
ADDRESS (MAILING) See attached	CITY	STATE	ZIP CODE
OWNER #2 NAME See attached		TELEPHONE NUMBER WITH AREA CODE	
EMAIL ADDRESS See attached			
ADDRESS (MAILING) See attached	CITY	STATE	ZIP CODE

4. CONTINUING AUTHORITY OF EACH MUNICIPALITY/AREA TO BE INCLUDED (Attach additional sheets as necessary)

CONTINUING AUTHORITY #1 NAME See attached		TELEPHONE NUMBER WITH AREA CODE	
EMAIL ADDRESS See attached			
ADDRESS (MAILING) See attached	CITY	STATE	ZIP CODE
CONTINUING AUTHORITY #2 NAME See attached		TELEPHONE NUMBER WITH AREA CODE	
EMAIL ADDRESS See attached			
ADDRESS (MAILING) See attached	CITY	STATE	ZIP CODE

5. INDIVIDUAL MUNICIPALITY/AREA APPLICANT CONTACT (Attach additional sheets as necessary)

CONTACT #1 NAME See attached		TELEPHONE NUMBER WITH AREA CODE	
EMAIL ADDRESS See attached			
ADDRESS (MAILING) See attached	CITY	STATE	ZIP CODE
CONTACT #2 NAME See attached		TELEPHONE NUMBER WITH AREA CODE	
EMAIL ADDRESS See attached			
ADDRESS (MAILING) See attached	CITY	STATE	ZIP CODE

6. COORDINATING AUTHORITY (A single entity providing coordination for all co-applicants included in this application)

NAME University of Missouri			
ADDRESS (MAILING) 180 General Service Building	CITY Columbia	STATE MO	ZIP CODE 65211

7. COORDINATING AUTHORITY CONTACT PERSON			
NAME Todd Houts		TELEPHONE WITH AREA CODE (573) 882-7018	
TITLE Director, MU Environmental Health & Safety			
E-MAIL ADDRESS houtst@missouri.edu			
8. STORMWATER OUTFALLS FOR EACH MUNICIPALITY/ AREA (Attach additional sheets as necessary)			
Outfall Number	Legal Description	GPS Coordinates (specify units)	Receiving Water Body
	Qtr 1 ____ ¼ Qtr 2 ____ ¼ Sec. ____ T ____ R ____	See attached	See attached
	Qtr 1 ____ ¼ Qtr 2 ____ ¼ Sec. ____ T ____ R ____	See attached	See attached
	Qtr 1 ____ ¼ Qtr 2 ____ ¼ Sec. ____ T ____ R ____	See attached	See attached
	Qtr 1 ____ ¼ Qtr 2 ____ ¼ Sec. ____ T ____ R ____	See attached	See attached
9. ADDITIONAL MUNICIPALITY/ AREA INFORMATION			
Attach a 1" = 2000' scale map showing the location of the municipality/area in relation to the local road system. Indicate on the map the municipality/area boundaries, the receiving stream(s); all known stormwater outfalls; and the map section, township, and range or GPS Coordinates.			
10. FEES			
Permit fees may be paid by attaching a check, or online by credit card or eCheck through the JetPay system. For permit renewals of active permits, fees are invoiced annually via a separate request. Use the URL provided to access JetPay and make an online payment:			
<ul style="list-style-type: none"> For new general permits (MOR): https://magic.collectorsolutions.com/magic-ui/payments/mo-natural-resources/604 For modifications: https://magic.collectorsolutions.com/magic-ui/payments/mo-natural-resources/596 			
11. ELECTRONIC DISCHARGE MONITORING REPORT (eDMR) SUBMISSION SYSTEM			
Per 40 CFR Part 127, National Pollutant Discharge Elimination System (NPDES) Electronic Reporting Rule, reporting shall be submitted by the permittee via an electronic system to ensure a timely, complete, accurate, and nationally-consistent set of data. One of the following options must be checked in order for this application to be considered complete. Visit dnr.mo.gov/env/wpp/edmr.htm for more information.			
<input checked="" type="checkbox"/> You have completed and submitted with this permit application the required documentation to participate in the eDMR system. <input type="checkbox"/> You have previously submitted the required documentation to participate in the eDMR system and/or you are currently using the eDMR system. <input type="checkbox"/> You have submitted a written request for a waiver from electronic reporting. See instructions for further information regarding waivers.			
12. CERTIFICATION			
I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.			
NAME AND OFFICIAL TITLE (TYPE OR PRINT) See attached		TELEPHONE NUMBER WITH AREA CODE	
SIGNATURE		DATE SIGNED	

Before mailing, please ensure all sections are complete and additional forms, if applicable, are included. Submitting an incomplete application may result in the application being returned.

HAVE YOU INCLUDED THE FOLLOWING?

- | | |
|--|---|
| <input checked="" type="checkbox"/> Appropriate fees | <input type="checkbox"/> Map at 1" = 2000' |
| <input checked="" type="checkbox"/> Form M | <input checked="" type="checkbox"/> Additional sheets for Co-permittees |

Attachments for Form L – Application for Co-Permittee Small MS4 General Permit

2. Names/Addresses of Each Municipality/Area to be Included

University of Missouri
180 General Services Building
900 E Stadium Blvd
Columbia, MO 65211

City of Columbia
701 E. Broadway
P.O. Box 6015
Columbia, MO 65205

County of Boone
801 E. Walnut, Room 315
Columbia, MO 65201

3. Owner of Each Municipality/Area to be Included

The Curators of the University of Missouri
(573) 882-7018
environmental@missouri.edu
225 University Hall
Columbia, MO 65211

City of Columbia
(573) 441-5530
stormwater@como.gov
701 E. Broadway
P.O. Box 6015
Columbia, MO 65205

County of Boone
(573) 886-4330
stormwater@boonecountymo.org
801 E. Walnut, Room 315
Columbia, MO 65201

4. Continuing Authority of Each Municipality/Area to be Included

The Curators of the University of Missouri
(573) 882-7018
environmental@missouri.edu
225 University Hall
Columbia, MO 65211

City of Columbia
(573) 874-7250
stormwater@como.gov
701 E. Broadway
Columbia, MO 65201

County of Boone
(573) 886-4330
stormwater@boonecountymo.org
801 E. Walnut
Columbia, MO 65201

5. Individual Municipality/Area Applicant Contact

University of Missouri
Todd Houts, Director, Environmental Health and Safety
(573) 882-7018
houts@missouri.edu

City of Columbia
David Sorrell, Assistant Director, Utilities
(573) 441-5530
stormwater@como.gov

Boone County
Stan Shawver, Director, Resource Management
(573) 886-4330
stormwater@boonecountymo.org

8. Representative Stormwater Outfalls for Each Municipality Area

Format:

Outfall # - Legal Description: (¼, ¼, Sec., Township, Range)
GPS coordinates (Lat. & Long.):
Receiving Water Body:

Co-permittee: MU

Outfall

MU001 - Legal Description: NW¼ of the NE¼ Section 13, Township 48N Range 13W
GPS Coordinates: Latitude 38° 56' 48" Longitude 92° 20' 03"
Receiving Water: Flat Branch Creek

MU003 - Legal Description: NW¼ of the NE¼ Section 13, Township 48N Range 13W
GPS Coordinates: Latitude 38° 56' 50" Longitude 92° 20' 02"
Receiving Water: Flat Branch Creek

- MU006 - Legal Description: NW¼ of the NE¼ Section 13 Township 48N Range 13W
GPS Coordinates: Latitude 38° 56' 51" Longitude 92° 20' 07"
Receiving Water: Flat Branch Creek

- MU009 - Legal Description: NE¼ of the NE¼ Section 13, Township 48N Range 13W
GPS Coordinates: Latitude 38° 56' 52" Longitude 92° 19' 47"
Receiving Water: Flat Branch Creek

- MU011 - Legal Description: NE¼ of the NE¼ Section 13, Township 48N Range 13W
GPS Coordinates: Latitude 38° 56' 53" Longitude 92° 19' 44"
Receiving Water: Flat Branch Creek

- MU014 - Legal Description: NE¼ of the NW¼ Section 24 Township 48N Range 13W
GPS Coordinates: Latitude 38° 56' 00" Longitude 92° 20' 06"
Receiving Water: Hinkson Creek

- MU015 - Legal Description: NE¼ of the NW¼ Section 24, Township 48N Range 13W
GPS Coordinates: Latitude 38° 55' 59" Longitude 92° 20' 11"
Receiving Water: Hinkson Creek

- MU016 - Legal Description: SE¼ of the NW¼ Section 24, Township 48N Range 13W
GPS Coordinates: Latitude 38° 55' 51" Longitude 92° 20' 05"
Receiving Water: Hinkson Creek

- MU017 - Legal Description: SW¼ of the NE¼ Section 24, Township 48N Range 13W
GPS Coordinates: Latitude 38° 55' 51" Longitude 92° 20' 00"
Receiving Water: Hinkson Creek

- MU018 - Legal Description: SE¼ of the NW¼ Section 24, Township 48N Range 13W
GPS Coordinates: Latitude 38° 55' 56" Longitude 92° 20' 07"
Receiving Water: Hinkson Creek

- MU022 - Legal Description: SW¼ of the NE¼ Section 24, Township 48N Range 13W
GPS Coordinates: Latitude 38° 55' 55" Longitude 92° 19' 52"
Receiving Water: Hinkson Creek

- MU024 - Legal Description: NW¼ of the NW¼ Section 19, Township 48N Range 12W
GPS Coordinates: Latitude 38° 55' 57" Longitude 92° 19' 27"
Receiving Water: Hinkson Creek

- MU027- Legal Description: SE¼ of the NW¼ Section 13, Township 48N Range 13W
GPS Coordinates: Latitude 38° 56' 38" Longitude 92° 20' 17"
Receiving Water: Flat Branch Creek

- MU028 - Legal Description: SE¼ of the NW¼ Section 13, Township 48N Range 13W
GPS Coordinates: Latitude 38° 56' 39" Longitude 92° 20' 14"
Receiving Water: Flat Branch Creek

- MU033 - Legal Description: NW¼ of the NW¼ Section 19, Township 48N Range 12W
GPS Coordinates: Latitude 38° 56' 04" Longitude 92° 18' 48"
Receiving Water: Hinkson Creek

- MU034 - Legal Description: SW¼ of the SE¼ Section 28, Township 48N Range 12W
GPS Coordinates: Latitude 38° 56' 14" Longitude 92° 18' 46"
Receiving Water: Hinkson Creek
- MU040 - Legal Description: NE¼ of the NW¼ Section 24, Township 48N Range 13W
GPS Coordinates: Latitude 38° 56' 06" Longitude 92° 20' 12"
Receiving Water: Hinkson Creek
- MU041 - Legal Description: SW¼ of the SW¼ Section 13, Township 48N Range 13W
GPS Coordinates: Latitude 38° 56' 13" Longitude 92° 20' 26"
Receiving Water: Hinkson Creek
- MU043 - Legal Description: NW¼ of the NW¼ Section 24, Township 48N Range 13W
GPS Coordinates: Latitude 38° 56' 03" Longitude 92° 20' 28"
Receiving Water: Hinkson Creek
- MU044 - Legal Description: NW¼ of the NW¼ Section 24, Township 48N Range 13W
GPS Coordinates: Latitude 38° 56' 00" Longitude 92° 20' 31"
Receiving Water: Hinkson Creek

Co-permittee: City of Columbia

- BC2136 - Legal Description: NW¼ of the SW¼ Section 35, Township 49N Range 13W
GPS Coordinates: Latitude 38° 59' 13" Longitude 92° 21' 05"
Receiving Water: Bear Creek
- BC2178 - Legal Description: SE¼ of the NW¼ Section 21, Township 49N Range 12W
GPS Coordinates: Latitude 39° 01' 02" Longitude 92° 16' 41"
Receiving Water: Bear Creek
- CC294 - Legal Description: NW¼ of the SE¼ Section 29, Township 48N Range 12W
GPS Coordinates: Latitude 38° 54' 45" Longitude 92° 17' 28"
Receiving Water: Clear Creek
- CC488 - Legal Description: SE¼ of the NE¼ Section 36, Township 48N Range 13W
GPS Coordinates: Latitude 38° 54' 03" Longitude 92° 19' 37"
Receiving Water: Clear Creek
- CH541 - Legal Description: NE¼ of the SE¼ Section 11, Township 48N Range 13W
GPS Coordinates: Latitude 38° 57' 31" Longitude 92° 21' 19"
Receiving Water: County House Branch
- CH723 - Legal Description: NW¼ of the SW¼ Section 22, Township 48N Range 13W
GPS Coordinates: Latitude 38° 57' 31" Longitude 92° 21' 19"
Receiving Water: County House Branch
- FB1277 - Legal Description: NE¼ of the NE¼ Section 11, Township 48N Range 13W
GPS Coordinates: Latitude 38° 57' 48" Longitude 92° 20' 42"
Receiving Water: Flat Branch

- FB1533- Legal Description: NW $\frac{1}{4}$ of the SW $\frac{1}{4}$ Section 23, Township 48N Range 13W
GPS Coordinates: Latitude 38° 55' 52" Longitude 92° 21' 58"
Receiving Water: Flat Branch
- GR666 - Legal Description: NW $\frac{1}{4}$ of the SE $\frac{1}{4}$ Section 19, Township 48N Range 12W
GPS Coordinates: Latitude 38° 55' 29" Longitude 92° 18' 37"
Receiving Water: Grindstone Creek
- GR895 - Legal Description: SW $\frac{1}{4}$ of the NW $\frac{1}{4}$ Section 1, Township 48N Range 12W
GPS Coordinates: Latitude 38° 58' 19" Longitude 92° 13' 33"
Receiving Water: Grindstone Creek
- HC2460 - Legal Description: NW $\frac{1}{4}$ of the S $\frac{1}{4}$ Section 15, Township 49N Range 12W
GPS Coordinates: Latitude 39° 01' 32" Longitude 92° 15' 49"
Receiving Water: Hinkson Creek
- HC2534 - Legal Description: NE $\frac{1}{4}$ of the SE $\frac{1}{4}$ Section 29, Township 48N Range 13W
GPS Coordinates: Latitude 38° 54' 57" Longitude 92° 24' 02"
Receiving Water: Hinkson Creek
- HM350 - Legal Description: NE $\frac{1}{4}$ of the NE $\frac{1}{4}$ Section 3, Township 48N Range 12W
GPS Coordinates: Latitude 38° 58' 38" Longitude 92° 15' 02"
Receiving Water: Hominy Branch
- HM399 - Legal Description: SE $\frac{1}{4}$ of the NE $\frac{1}{4}$ Section 18, Township 48N Range 12W
GPS Coordinates: Latitude 38° 56' 35" Longitude 92° 18' 18"
Receiving Water: Hominy Branch
- HR850 - Legal Description: NW $\frac{1}{4}$ of the NW $\frac{1}{4}$ Section 11, Township 48N Range 13W
GPS Coordinates: Latitude 38° 57' 52" Longitude 92° 21' 38"
Receiving Water: Harmony Creek
- HR897 - Legal Description: SW $\frac{1}{4}$ of the NE $\frac{1}{4}$ Section 8, Township 48N Range 13W
GPS Coordinates: Latitude 38° 57' 50" Longitude 92° 24' 23"
Receiving Water: Harmony Creek
- LB552 - Legal Description: NE $\frac{1}{4}$ of the SW $\frac{1}{4}$ Section 36, Township 48N Range 13W
GPS Coordinates: Latitude 38° 53' 56" Longitude 92° 20' 17"
Receiving Water: Little Bonne Femme Creek
- LB570 - Legal Description: NW $\frac{1}{4}$ of the SW $\frac{1}{4}$ Section 10, Township 47N Range 13W
GPS Coordinates: Latitude 38° 52' 07" Longitude 92° 22' 46"
Receiving Water: Little Bonne Femme Creek
- MB755 - Legal Description: SE $\frac{1}{4}$ of the NE $\frac{1}{4}$ Section 16, Township 48N Range 13W
GPS Coordinates: Latitude 38° 57' 01" Longitude 92° 22' 51"
Receiving Water: Meredith Branch
- MB867 - Legal Description: NE $\frac{1}{4}$ of the NE $\frac{1}{4}$ Section 29, Township 48N Range 13W
GPS Coordinates: Latitude 38° 55' 36" Longitude 92° 24' 01"
Receiving Water: Meredith Branch

MC1092 - Legal Description: SE¼ of the NE¼ Section 32, Township 48N Range 13W
GPS Coordinates: Latitude 38° 54' 20" Longitude 92° 24' 17"
Receiving Water: Mill Creek

MC1352 - Legal Description: NW¼ of the NW¼ Section 31, Township 48N Range 13W
GPS Coordinates: Latitude 38° 54' 21" Longitude 92° 19' 33"
Receiving Water: Mill Creek

Co-permittee: Boone County

BC260 - Legal Description: Section 03, T48N, R12W
GPS Coordinates: X = 565257.4, Y = 4313811
Receiving Water: Hominy Branch Creek

BC246 - Legal Description: Section 21, Township 48N Range 12W
GPS Coordinates: X = 562627.9, Y = 4309356
Receiving Water: Tributary to South Fork Grindstone Creek

BC221 - Legal Description: Section 29, Township 48N Range 13W
GPS Coordinates: X = 551712.6, Y = 4308495
Receiving Water: Meredith Branch Creek

BC218 - Legal Description: Section 17 Township 48N Range 13W
GPS Coordinates: X = 550943.3, Y = 4310651
Receiving Water: Tributary to Perche Creek

BC182 - Legal Description: Section 10, Township 47N Range 13W
GPS Coordinates: X = 554799.4, Y = 4302977
Receiving Water: Tributary to Little Bonne Femme Creek

BC163 - Legal Description: Section 02, Township 48N Range 14W
GPS Coordinates: X = 546541.3, Y = 4314588
Receiving Water: Tributary to Sugar Branch Creek

BC090 - Legal Description: Section 17, Township 48N Range 13W
GPS Coordinates: X = 551970.7, Y = 4310557
Receiving Water: Goodin Branch

BC121 - Legal Description: Section 04, Township 48N Range 13W
GPS Coordinates: X = 553319.2, Y = 4304200"
Receiving Water: Tributary to Little Bonne Femme Creek

BC134 - Legal Description: Section 25, Township 49N Range 13W
GPS Coordinates: X = 558103.4, Y = 4317783
Receiving Water: Tributary to Cow Branch Creek

BC196 - Legal Description: Section 12, Township 49N Range 13W
GPS Coordinates: X = 557501.7, Y = 4322789
Receiving Water: Rocky Fork Creek

9. Additional Municipality/Area Information

Below are the links to maps for each co-permittee illustrating the municipality/area boundaries, the receiving stream(s); all known stormwater outfalls; and the map section, township, and range or GPS Coordinates.

Boone County:

www.showmeboone.com/stormwater

City of Columbia:

<https://www.como.gov/utilities/stormwater/education/understanding-the-issue/improve-stormwater/>

University of Missouri:

<https://ehs.missouri.edu/ehs/env/stormwater/mums4outfallsmap>

12. Certification

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designated to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

This certification applies to those responsibilities of the University of Missouri. The University cannot accept responsibility for issues that are under the jurisdiction of the City of Columbia or Boone County.

University of Missouri:

Gary Ward
Name

Vice Chancellor, Operations
Title

(573) 882-4097
Phone

Signature

Date

12. Certification

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designated to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

This certification applies to those responsibilities of the City of Columbia. The City cannot accept responsibility for issues that are under the jurisdiction of the University of Missouri or Boone County.

City of Columbia:

David Sorrell
Name

Assistant Director, Utilities
Title

(573) 441-5530
Phone

Signature

Date

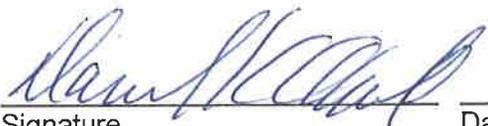
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This certification applies to those responsibilities of Boone County. The County cannot accept responsibility for issues that are under the jurisdiction of the City of Columbia or the University of Missouri.

Boone County:

Daniel K. Atwill Presiding Commissioner (573) 886-4305
Name Title Phone

 2.27.2020
Signature Date



MISSOURI DEPARTMENT OF NATURAL RESOURCES
WATER PROTECTION PROGRAM,

FORM M – APPLICATION FOR STORMWATER GENERAL PERMIT: PHASE 2 SMALL MUNICIPAL SEPARATE STORM SEWER SYSTEM (MS4) PROGRAM (FORM K OR L MUST BE INCLUDED)

1. Name of municipality/area(s) to be covered by this permit City of Columbia/County of Boone/University of Missouri
2. Physical location of municipality/area(s) (address assigned): See attached
3. Total area of municipality/area (s) <u>See attached</u> acres or _____ square miles.
4. A Stormwater Management Plan (SWMP) must be developed for this municipality/area. This plan must be developed in accordance with requirements & guidelines specified within the general permit for stormwater discharges from regulated MS4 activities. The application will be considered incomplete if the SWMP has not been developed in accordance with the terms of the general permit. A copy of the SWMP must be submitted along with this application.
5. Summarize the measures from the SWMP that will be used for <u>PUBLIC EDUCATION AND OUTREACH</u> . (Attach additional sheets if necessary.) See attached sheet with summary of measures from the SWMP that will be used for PUBLIC EDUCATION AND OUTREACH, (MCM 1).
5. Summarize the measures from the SWMP that will be used for <u>PUBLIC INVOLVEMENT AND PARTICIPATION</u> . (Attach additional sheets if necessary.) See attached sheet with summary of measures from the SWMP that will be used for PUBLIC INVOLVEMENT AND PARTICIPATION, (MCM 2).
7. Summarize the measures from the SWMP that will be used for <u>ILLICIT DISCHARGE DETECTION AND ELIMINATION</u> . (Attach additional sheets if necessary.) See attached sheet with summary of measures from the SWMP that will be used for ILLICIT DISCHARGE DETECTION AND ELIMINATION, (MCM 3).
8. Summarize the measures from the SWMP that will be used for <u>CONSTRUCTION SITE STORM WATER RUNOFF CONTROL</u> . (Attach additional sheets if necessary.) See attached sheet with summary of measures from the SWMP that will be used for CONSTRUCTION SITE STORM WATER RUNOFF CONTROL, (MCM 4).

**Attachments for Form M – Application for Storm Water Permit under the
General Permit: Small Municipal Separate Storm Sewer System (MS4)**

2. Physical Location of Municipality/Area(s) (Address Assigned)

University of Missouri
180 General Services Building
900 E Stadium Blvd
Columbia, MO 65211

City of Columbia
701 E. Broadway
P.O. Box 6015
Columbia, MO 65205

County of Boone
801 E. Walnut, Room 315
Columbia, MO 65201

3. Total Area of Municipality/Area(s)

The total area covered by this permit application is 691.15 square miles (Boone County Assessor) as follows:

City of Columbia: 58.22 square miles, exclusive of the Columbia campus of the University of Missouri and Boone County Property within Columbia City limits.

Boone County: 613.49 square miles, exclusive of Columbia City property, University of Missouri (MU) property, the property of ten 11 municipalities, and state and federal holdings.

Univ. of Missouri: 12.57 square miles, of which 7.53 square miles are surrounded by the City of Columbia

4. Storm Water Management Plan (SWMP)

The Joint Storm Water Management Plan for City of Columbia, Boone County, and the University of Missouri (MU) is attached.

5. Summary of Measures for Public education and Outreach (MCM 1):

See attached table.

6. Summary of Measures for Public Involvement and Participation (MCM 2)

See attached table.

7. Summary of Measures for Illicit Discharge, Detection, and Elimination (MCM 3)

See attached table.

8. Summary of Measures for Construction Site Stormwater Runoff Control (MCM 4)

See attached table.

9. Summary of Measures for Post Construction Stormwater Management (MCM 5)

See attached table.

10. Summary of Measures for Pollution Prevention and Good Housekeeping (MCM 6)

See attached table.

11. Areas within 100 Feet of Specially Classified Waters

The following waters in the application area are classified as outstanding state resource waters (from 10 CSR 20-7 Table E):

<u>Water body</u>	<u>Length</u>	<u>Location</u>
Bass Creek	1 mile	in Three Creeks Conservation Area
Bonne Femme Creek	2 miles	Three Creeks Conservation Area
Devils Ice Box Cave Branch	1.5 miles	Rock Bridge State Park
Gan's Creek	3 miles	Rock Bridge State Park
Turkey Creek	4.6 miles	in Three Creeks Conservation Area

There are no public drinking water supply lakes (L1); outstanding national resource waters; streams designated for cold-water sport fishery in the application area.

12. Discharge from MS4 within two stream miles upstream of biocriteria reference locations. List of receiving waters:

The following are permanent flow streams (P) in Boone County:

Bonne Femme Creek
Little Bonne Femme Creek
Perche Creek
Hinkson Creek
Sugar Branch

14. Discharges to Sinkholes, Losing streams, or Any Other Topographical Features That Would be a Direct Conduit to Ground Water

Sinkholes:

See Attached Table A

Losing Streams:

See Attached Table B

15. Certifications

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designated to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

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University of Missouri:

<u>Gary Ward</u>	<u>Vice Chancellor, Operations</u>	<u>(573) 882-4097</u>
Name	Title	Phone

_____	_____
Signature	Date

15. Certifications

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designated to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

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City of Columbia:

<u>David Sorrell</u>	<u>Assistant Director, Utilities</u>	<u>(573) 441-5530</u>
Name	Title	Phone

_____	_____
Signature	Date

15. Certifications

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designated to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

This certification applies to those responsibilities of Boone County. The County cannot accept responsibility for issues that are under the jurisdiction of the City of Columbia or the University of Missouri.

Boone County:

Danial K. Atwill Presiding Commissioner (573) 886-4305
Name Title Phone

 2.27.2020
Signature Date

Attachments for Form M: MCM Summaries (Application questions 5-10)

5. BMPs for MCM 1: Public Education and Outreach

BMP	MEASURABLE GOALS	STATUS	RESPONSIBLE PERMITTEE
Identify target audience	Target municipal inspectors, contractors, developers, engineers, residents, and schools annually	Ongoing	All Permittees
Select education topic annually	Select specific topic to focus on for year	Ongoing	All Permittees
Develop education and outreach materials	Develop brochures, fact sheets, and public service announcements	Ongoing	All Permittees
Distribute education & outreach materials	Prepare and distribute at events. Review and update as necessary	Ongoing	All Permittees
Maintain Hinkson Creek GIS Habitat Viewer	Maintain viewer; review and update as necessary	Ongoing	Boone County
Maintain stormwater websites	Maintain websites; review and update as necessary	Ongoing	All Permittees
Conduct educational outreach activities	Staff community events, make presentations to citizen's groups, present and distribute materials to schools and industry groups	Ongoing	All Permittees
Collect used tires and e-waste	Collect every other year	Ongoing	All Permittees
Collect Household Hazardous Waste	Hold collection event twice a month from April through November	Ongoing	City of Columbia
Collect Household Hazardous Waste	Hold collection event annually	Ongoing	All Permittees

6. BMPs for MCM 2: Public Involvement and Participation

BMP	MEASURABLE GOALS	STATUS	RESPONSIBLE PERMITTEE
Observe all public notice requirements	Allow citizens and civic groups to provide input concerning policies	Ongoing	All Permittees
Involve public/stakeholders in policy development	Hold public hearings/stakeholder meetings when properties are annexed or request a change in zoning, during the platting process, and throughout the project design stage	Ongoing	City of Columbia, Boone County
Involve public/stakeholders in policy development	Annually publicize and present Campus Master Plan	Ongoing	MU
Select education topic annually	Select specific topic to focus on for year	Ongoing	All Permittees
Present public involvement/participation activities	Promote Adopt-A-Spot/Adopt-A-Road programs, environmental volunteer programs, public service announcements, and community clean-up events	Ongoing	All Permittees
Social networks/website updates	Establish and maintain social networks and websites	Ongoing	All Permittees
Collect Household Hazardous Waste	Hold collection event twice a month from April through November	Ongoing	City of Columbia
Collect Household Hazardous Waste	Hold collection event annually	Ongoing	All Permittees

7. BMPs for MCM 3: Illicit Discharge Detection and Elimination

BMP	MEASURABLE GOALS	STATUS	RESPONSIBLE PERMITTEE
Maintain storm sewer system map with all pipes, inlets and associated attributes	Review and update digital maps as necessary	Ongoing	All Permittees
Implement/enforce IDDE ordinance/regulatory mechanism	Implement, maintain, and enforce IDDE ordinances/regulatory mechanisms. Review and update as necessary	Ongoing	All Permittees
Non-stormwater discharges as significant contributors	Evaluate on a case-by-case basis to determine whether such discharges may be directed to the storm sewer system	Ongoing	All Permittees
Implement plan to detect and address incidental non-stormwater discharges	Implement plan to detect and address non-stormwater discharges which may include on-site inspections, smoke and dye testing, CCTV inspections, and public watch and reporting programs	Ongoing	All Permittees
Inform public employees, businesses, and general public of hazards associated with IDDE	Include this information as an element in the outreach, education and municipal training programs	Ongoing	All Permittees

8. BMPs for MCM 4: Construction Site Stormwater Runoff Control

BMP	MEASURABLE GOALS	STATUS	RESPONSIBLE PERMITTEE
Require MDNR land disturbance permit for sites one acre and greater	Enforce sanctions to ensure compliance to the maximum extent practicable under state or local law and track the number of land disturbance permits issued	Ongoing	All Permittees
Implement/maintain/enforce land disturbance requirements/regulatory mechanisms	Implement/maintain/enforce requirements and/or regulatory mechanisms to control runoff from all construction sites. Review and update as necessary	Ongoing	All Permittees
Erosion and sediment controls for construction sites	Implement stormwater design manuals. Review and update as necessary	Ongoing	All Permittees
Require construction site operators to control waste and erosion on construction sites	Require and review Stormwater Pollution Prevention Plans (SWPPP)	Ongoing	Boone County and MU
Maintain procedures for handling information submitted by the public	Implement procedures for receipt and consideration of information submitted by public. Track this information	Ongoing	All Permittees
Conduct site inspections	Inspect locally permitted sites regularly	Ongoing	All Permittees

9. BMPs for MCM 5: Post-construction Stormwater Management

BMP	MEASURABLE GOALS	STATUS	RESPONSIBLE PERMITTEE
Identify structural/non-structural strategies	Water quality improvement projects, BMP monitoring projects, LEED building standards, etc.	Ongoing	All Permittees
Identify structural/non-structural strategies	Track permits for installation of private BMPs	Ongoing	City of Columbia, Boone County
Implement/maintain stormwater management/ water quality manual or equivalent	Review and update as necessary	Ongoing	All Permittees
Implement/maintain stormwater management ordinance/MU Stormwater Master Plan	Review and update as necessary	Ongoing	All Permittees
Implement/maintain stream buffer ordinance/MU Stormwater Master Plan	Review ordinance/master plan and revise standards as necessary	Ongoing	All Permittees
Ensure adequate long-term operation and maintenance of BMPs	Inspect according to schedule	Ongoing	All Permittees
Maintain operation and maintenance schedule	Maintain inventory, maintenance and inspection schedules of BMPs	Ongoing	All Permittees
Collect Household Hazardous Waste	Hold collection event twice a month from April through November	Ongoing	City of Columbia
Collect Household Hazardous Waste	Hold collection event annually	Ongoing	All Permittees

10. BMPs for MCM 6: Pollution Prevention and Good Housekeeping

BMP	MEASURABLE GOALS	STATUS	RESPONSIBLE PERMITTEE
Establish operation and maintenance schedule	Maintain hazardous materials management and SPCC operation and maintenance schedules	Ongoing	All Permittees
Identify employee groups to train	All impacted employees	Ongoing	All Permittees
Implement training presentation	Update and implement training presentations associated with pollution prevention/good housekeeping measures	Ongoing	All Permittees
Schedule/conduct pollution prevention training	All impacted employees trained	Ongoing	All Permittees
Collect Household Hazardous Waste	Hold collection event twice a month from April through November	Ongoing	City of Columbia
Collect Household Hazardous Waste	Hold collection event annually	Ongoing	All Permittees

Table A: Attachment for Form M: Sinkholes in Boone County (Application question 14)

DNR SINKHOLE	TOWNSHIP	YDIR	RANGE	XDIR	SECT	LATITUDE	LONGITUDE
395	45	N	12	W	5	38.70489502	-92.30158997
397	45	N	12	W	5	38.70524216	-92.3015976
396	45	N	12	W	5	38.70595932	-92.3014679
398	45	N	12	W	5	38.70622253	-92.30335999
308	45	N	12	W	9	38.6898613	-92.27797699
309	45	N	12	W	23	38.66458511	-92.25521088
310	45	N	12	W	23	38.67055893	-92.24372864
403	46	N	11	W	8	38.7866745	-92.18347931
307	46	N	13	W	13	38.76302338	-92.34307098
306	46	N	13	W	13	38.7634201	-92.34223175
387	47	N	12	W	5	38.87687683	-92.29251099
155	47	N	12	W	5	38.88573074	-92.2936554
154	47	N	12	W	6	38.88948441	-92.31335449
226	47	N	12	W	7	38.86275864	-92.30952454
221	47	N	12	W	7	38.86285782	-92.31272888
224	47	N	12	W	7	38.86293411	-92.30753326
216	47	N	12	W	7	38.86303329	-92.31400299
217	47	N	12	W	7	38.86302948	-92.31102753
215	47	N	12	W	7	38.86326599	-92.32614899
213	47	N	12	W	7	38.86352921	-92.31523132
211	47	N	12	W	7	38.86367416	-92.31072998
209	47	N	12	W	7	38.86435318	-92.30818176
207	47	N	12	W	7	38.86474991	-92.30639648
204	47	N	12	W	7	38.86489868	-92.32293701
205	47	N	12	W	7	38.86491776	-92.32429504
200	47	N	12	W	7	38.86528778	-92.3061676
202	47	N	12	W	7	38.86542511	-92.30801392
198	47	N	12	W	7	38.86566925	-92.32382965
210	47	N	12	W	7	38.86580276	-92.31474304
195	47	N	12	W	7	38.86588669	-92.31020355
188	47	N	12	W	7	38.86649704	-92.31062317
191	47	N	12	W	7	38.866539	-92.32601929
187	47	N	12	W	7	38.86652374	-92.30888367
185	47	N	12	W	7	38.86674881	-92.32415009
184	47	N	12	W	7	38.86676407	-92.32492065
181	47	N	12	W	7	38.86716843	-92.31704712
179	47	N	12	W	7	38.86741638	-92.31156921
176	47	N	12	W	7	38.86746216	-92.31020355
183	47	N	12	W	7	38.86746979	-92.30712128
177	47	N	12	W	7	38.86748886	-92.31616974

Table A: Attachment for Form M: Sinkholes in Boone County (Application question 14)

DNR SINKHOLE	TOWNSHIP	YDIR	RANGE	XDIR	SECT	LATITUDE	LONGITUDE
175	47	N	12	W	7	38.86782455	-92.30770111
174	47	N	12	W	7	38.86793518	-92.31484985
173	47	N	12	W	7	38.86817932	-92.31758881
170	47	N	12	W	7	38.86826324	-92.30583191
169	47	N	12	W	7	38.86853409	-92.31613159
168	47	N	12	W	7	38.86856461	-92.31521606
165	47	N	12	W	7	38.86993027	-92.31860352
164	47	N	12	W	7	38.87031555	-92.32678986
163	47	N	12	W	7	38.87041092	-92.3267746
162	47	N	12	W	7	38.8711319	-92.32674408
219	47	N	12	W	8	38.86257553	-92.29125214
218	47	N	12	W	8	38.86263657	-92.29954529
225	47	N	12	W	8	38.86265945	-92.29772186
220	47	N	12	W	8	38.8627243	-92.30085754
214	47	N	12	W	8	38.86302948	-92.29827118
212	47	N	12	W	8	38.86356735	-92.29967499
208	47	N	12	W	8	38.86455536	-92.29935455
203	47	N	12	W	8	38.86495209	-92.298172
201	47	N	12	W	8	38.86504745	-92.30011749
199	47	N	12	W	8	38.86540985	-92.3009491
194	47	N	12	W	8	38.86600876	-92.30131531
193	47	N	12	W	8	38.86604309	-92.29670715
192	47	N	12	W	8	38.86621094	-92.30522919
189	47	N	12	W	8	38.86639404	-92.30466461
206	47	N	12	W	8	38.86672974	-92.29303741
197	47	N	12	W	8	38.86711884	-92.29750061
178	47	N	12	W	8	38.86750793	-92.2961731
186	47	N	12	W	8	38.86761475	-92.28778839
384	47	N	12	W	8	38.86761856	-92.28814697
171	47	N	12	W	8	38.86817551	-92.2984314
167	47	N	12	W	8	38.86940002	-92.29904175
166	47	N	12	W	8	38.86949539	-92.30123138
385	47	N	12	W	8	38.8697052	-92.28968048
386	47	N	12	W	8	38.87468719	-92.29360199
388	47	N	12	W	8	38.87617493	-92.29017639
250	47	N	12	W	16	38.85943222	-92.28431702
258	47	N	12	W	17	38.8580246	-92.29611969
255	47	N	12	W	17	38.85871887	-92.28899384
256	47	N	12	W	17	38.85889816	-92.29980469
252	47	N	12	W	17	38.85931778	-92.3044281
251	47	N	12	W	17	38.859478	-92.30506897

Table A: Attachment for Form M: Sinkholes in Boone County (Application question 14)

DNR SINKHOLE	TOWNSHIP	YDIR	RANGE	XDIR	SECT	LATITUDE	LONGITUDE
247	47	N	12	W	17	38.85946655	-92.29694366
253	47	N	12	W	17	38.85979843	-92.30139923
244	47	N	12	W	17	38.85990143	-92.30229187
243	47	N	12	W	17	38.85991669	-92.30358124
245	47	N	12	W	17	38.85997009	-92.30502319
246	47	N	12	W	17	38.86009979	-92.28898621
238	47	N	12	W	17	38.86037827	-92.29821014
241	47	N	12	W	17	38.86156845	-92.29453278
230	47	N	12	W	17	38.86183167	-92.30085754
227	47	N	12	W	17	38.86214828	-92.30400848
268	47	N	12	W	18	38.85352707	-92.31578064
267	47	N	12	W	18	38.85432053	-92.30821991
266	47	N	12	W	18	38.85486221	-92.30845642
265	47	N	12	W	18	38.85494232	-92.30789185
264	47	N	12	W	18	38.85506821	-92.30916595
263	47	N	12	W	18	38.85523224	-92.30725861
262	47	N	12	W	18	38.85556603	-92.30998993
261	47	N	12	W	18	38.85564041	-92.30913544
260	47	N	12	W	18	38.85603714	-92.30956268
259	47	N	12	W	18	38.85666656	-92.30713654
257	47	N	12	W	18	38.85871506	-92.32633209
254	47	N	12	W	18	38.85970688	-92.30797577
249	47	N	12	W	18	38.8598175	-92.31250763
248	47	N	12	W	18	38.8598938	-92.31887054
240	47	N	12	W	18	38.86040497	-92.325737
239	47	N	12	W	18	38.860466	-92.31467438
242	47	N	12	W	18	38.86061096	-92.32485199
237	47	N	12	W	18	38.86085892	-92.32339478
236	47	N	12	W	18	38.86100769	-92.31389618
235	47	N	12	W	18	38.86128998	-92.32608795
231	47	N	12	W	18	38.8614769	-92.31234741
229	47	N	12	W	18	38.86174774	-92.32349396
234	47	N	12	W	18	38.86187363	-92.32209778
228	47	N	12	W	18	38.86200714	-92.30641937
233	47	N	12	W	18	38.86210632	-92.32540131
223	47	N	12	W	18	38.86252213	-92.30628967
222	47	N	12	W	18	38.86264801	-92.32286835
276	47	N	12	W	21	38.83512497	-92.27470398
275	47	N	12	W	21	38.83525467	-92.27401733
274	47	N	12	W	21	38.83546829	-92.27244568
273	47	N	12	W	21	38.84065628	-92.27126312

Table A: Attachment for Form M: Sinkholes in Boone County (Application question 14)

DNR SINKHOLE	TOWNSHIP	YDIR	RANGE	XDIR	SECT	LATITUDE	LONGITUDE
272	47	N	12	W	21	38.84223557	-92.27098846
271	47	N	12	W	21	38.84260941	-92.27579498
270	47	N	12	W	21	38.84329605	-92.27490234
269	47	N	12	W	21	38.84345627	-92.28498077
285	47	N	12	W	28	38.82569122	-92.28546906
277	47	N	12	W	28	38.83141708	-92.27075958
300	47	N	12	W	29	38.81902695	-92.29653168
299	47	N	12	W	29	38.81902695	-92.29516602
298	47	N	12	W	29	38.81907272	-92.29820251
297	47	N	12	W	29	38.81926727	-92.30052948
296	47	N	12	W	29	38.81943512	-92.29722595
295	47	N	12	W	29	38.81963348	-92.29458618
294	47	N	12	W	29	38.81993866	-92.29792023
293	47	N	12	W	29	38.82059479	-92.29999542
292	47	N	12	W	29	38.82239151	-92.29567719
291	47	N	12	W	29	38.82378006	-92.28868866
290	47	N	12	W	29	38.82413483	-92.28967285
289	47	N	12	W	29	38.82423401	-92.29172516
288	47	N	12	W	29	38.82462311	-92.29101563
287	47	N	12	W	29	38.82500076	-92.28820801
286	47	N	12	W	29	38.82544708	-92.28779602
284	47	N	12	W	29	38.82596588	-92.29075623
283	47	N	12	W	29	38.8263855	-92.29143524
282	47	N	12	W	29	38.8264122	-92.29257965
281	47	N	12	W	29	38.82677078	-92.29302216
280	47	N	12	W	29	38.8273735	-92.29843903
278	47	N	12	W	29	38.82817459	-92.2947464
279	47	N	12	W	29	38.82817841	-92.29359436
305	47	N	12	W	32	38.81377792	-92.30062866
304	47	N	12	W	32	38.81507492	-92.29724884
303	47	N	12	W	32	38.81575012	-92.29826355
302	47	N	12	W	32	38.81598282	-92.29114532
412	47	N	12	W	32	38.81840515	-92.30324554
301	47	N	12	W	32	38.81840897	-92.2959671
158	47	N	13	W	2	38.87943268	-92.34796143
157	47	N	13	W	2	38.87979126	-92.34656525
156	47	N	13	W	2	38.88001251	-92.34774017
196	47	N	13	W	12	38.86591339	-92.32789612
190	47	N	13	W	12	38.86644363	-92.33058929
182	47	N	13	W	12	38.86715317	-92.32875061
180	47	N	13	W	12	38.86729431	-92.33036041

Table A: Attachment for Form M: Sinkholes in Boone County (Application question 14)

DNR SINKHOLE	TOWNSHIP	YDIR	RANGE	XDIR	SECT	LATITUDE	LONGITUDE
172	47	N	13	W	12	38.86830521	-92.33020782
414	47	N	13	W	13	38.85188293	-92.34472656
415	47	N	13	W	13	38.85196304	-92.34505463
232	47	N	13	W	13	38.86156845	-92.33348083
161	47	N	13	W	21	38.83559036	-92.39796448
160	47	N	13	W	21	38.83594131	-92.39785767
159	47	N	13	W	22	38.84436798	-92.3757782
413	47	N	13	W	24	38.84057617	-92.33737183
422	48	N	12	W	19	38.92089844	-92.30919647
407	48	N	12	W	30	38.91736221	-92.30913544
420	48	N	12	W	30	38.91869736	-92.3092041
421	48	N	12	W	30	38.9201355	-92.30886841
140	48	N	13	W	17	38.94802856	-92.41248322
137	48	N	13	W	17	38.94817734	-92.41116333
132	48	N	13	W	17	38.94961166	-92.41361237
131	48	N	13	W	17	38.94992828	-92.41112518
130	48	N	13	W	17	38.95062637	-92.4123764
417	48	N	13	W	20	38.9372673	-92.41397095
419	48	N	13	W	27	38.91566086	-92.36649323
399	48	N	13	W	27	38.91625214	-92.36682129
106	48	N	14	W	2	38.98403931	-92.47040558
105	48	N	14	W	2	38.98451996	-92.46942902
104	48	N	14	W	2	38.98498917	-92.4699707
103	48	N	14	W	2	38.98517609	-92.46609497
102	48	N	14	W	2	38.98522568	-92.46712494
100	48	N	14	W	2	38.98606491	-92.46709442
101	48	N	14	W	2	38.98621368	-92.46560669
99	48	N	14	W	2	38.98630524	-92.467453
98	48	N	14	W	2	38.98644257	-92.46715546
97	48	N	14	W	2	38.98719788	-92.46602631
96	48	N	14	W	2	38.98734283	-92.46801758
95	48	N	14	W	2	38.98744202	-92.46538544
94	48	N	14	W	2	38.98809052	-92.4683609
375	48	N	14	W	4	38.97525787	-92.49871826
13	48	N	14	W	7	38.96625137	-92.53565216
10	48	N	14	W	7	38.96692276	-92.53459167
8	48	N	14	W	7	38.96774673	-92.53466797
6	48	N	14	W	7	38.96818542	-92.53491211
5	48	N	14	W	7	38.96868134	-92.53647614
4	48	N	14	W	7	38.96895981	-92.53385162
3	48	N	14	W	7	38.96976089	-92.53922272

Table A: Attachment for Form M: Sinkholes in Boone County (Application question 14)

DNR SINKHOLE	TOWNSHIP	YDIR	RANGE	XDIR	SECT	LATITUDE	LONGITUDE
2	48	N	14	W	7	38.97170639	-92.54239655
1	48	N	14	W	7	38.97256088	-92.54107666
401	48	N	14	W	7	38.97265625	-92.54212189
26	48	N	14	W	8	38.96060944	-92.5225296
23	48	N	14	W	8	38.96068192	-92.52542114
366	48	N	14	W	8	38.96108627	-92.52690887
405	48	N	14	W	8	38.96131134	-92.52924347
404	48	N	14	W	8	38.96217346	-92.52896118
21	48	N	14	W	8	38.96241379	-92.52310181
22	48	N	14	W	8	38.96263504	-92.52306366
20	48	N	14	W	8	38.96310806	-92.52243042
19	48	N	14	W	8	38.96389389	-92.52375793
423	48	N	14	W	8	38.96413803	-92.52636719
17	48	N	14	W	8	38.96416473	-92.52336884
18	48	N	14	W	8	38.96419907	-92.52508545
15	48	N	14	W	8	38.96478271	-92.52363586
16	48	N	14	W	8	38.9656105	-92.52603912
14	48	N	14	W	8	38.96593475	-92.52703094
406	48	N	14	W	8	38.96637726	-92.52970886
12	48	N	14	W	8	38.96645355	-92.53147125
9	48	N	14	W	8	38.96687317	-92.53039551
7	48	N	14	W	8	38.96809006	-92.52902222
147	48	N	14	W	15	38.9457016	-92.49411011
145	48	N	14	W	15	38.94639969	-92.49239349
144	48	N	14	W	15	38.94701004	-92.49221039
143	48	N	14	W	15	38.94709778	-92.49442291
142	48	N	14	W	15	38.94755554	-92.49041748
141	48	N	14	W	15	38.94805145	-92.49156189
139	48	N	14	W	15	38.94827271	-92.4942627
138	48	N	14	W	15	38.94834518	-92.4947052
136	48	N	14	W	15	38.94845581	-92.49079895
134	48	N	14	W	15	38.94871902	-92.49485016
135	48	N	14	W	15	38.94876862	-92.49391174
133	48	N	14	W	15	38.9490242	-92.49539948
127	48	N	14	W	15	38.95207214	-92.49143219
126	48	N	14	W	15	38.95223236	-92.4925766
124	48	N	14	W	15	38.95233917	-92.49378204
128	48	N	14	W	15	38.95328522	-92.49346161
120	48	N	14	W	15	38.95434189	-92.49333954
119	48	N	14	W	15	38.95463181	-92.49227142
117	48	N	14	W	15	38.95468903	-92.49427795

Table A: Attachment for Form M: Sinkholes in Boone County (Application question 14)

DNR SINKHOLE	TOWNSHIP	YDIR	RANGE	XDIR	SECT	LATITUDE	LONGITUDE
118	48	N	14	W	15	38.95471573	-92.49302673
129	48	N	14	W	15	38.95474243	-92.49402618
115	48	N	14	W	15	38.95506287	-92.49429321
116	48	N	14	W	15	38.95520782	-92.49567413
114	48	N	14	W	15	38.95600128	-92.49488831
113	48	N	14	W	15	38.95669937	-92.49349213
112	48	N	14	W	15	38.95675278	-92.49568176
368	48	N	14	W	15	38.95752335	-92.49491882
110	48	N	14	W	15	38.95856476	-92.48902893
109	48	N	14	W	15	38.95856476	-92.48961639
111	48	N	14	W	15	38.9589119	-92.48990631
108	48	N	14	W	15	38.95906067	-92.48939514
107	48	N	14	W	15	38.95914841	-92.48832703
372	48	N	14	W	16	38.94610596	-92.50496674
66	48	N	14	W	16	38.94641876	-92.50460815
378	48	N	14	W	16	38.94675064	-92.50413513
60	48	N	14	W	16	38.94717026	-92.50467682
61	48	N	14	W	16	38.94743729	-92.504776
377	48	N	14	W	16	38.94750214	-92.50328827
59	48	N	14	W	16	38.94778061	-92.51448822
376	48	N	14	W	16	38.94786453	-92.50302124
58	48	N	14	W	16	38.94787216	-92.50029755
57	48	N	14	W	16	38.94788361	-92.50501251
369	48	N	14	W	16	38.94844437	-92.50263977
371	48	N	14	W	16	38.94872284	-92.50191498
370	48	N	14	W	16	38.94930649	-92.50183868
50	48	N	14	W	16	38.94984436	-92.50154877
53	48	N	14	W	16	38.94985199	-92.51342773
49	48	N	14	W	16	38.95035553	-92.50441742
51	48	N	14	W	16	38.95039368	-92.50052643
48	48	N	14	W	16	38.95104218	-92.50406647
47	48	N	14	W	16	38.9515152	-92.50547028
125	48	N	14	W	16	38.95263672	-92.49755096
45	48	N	14	W	16	38.95277405	-92.50585175
44	48	N	14	W	16	38.95322418	-92.50387573
123	48	N	14	W	16	38.95343399	-92.49881744
41	48	N	14	W	16	38.95350647	-92.50566864
40	48	N	14	W	16	38.95407104	-92.5043335
122	48	N	14	W	16	38.95420456	-92.49965668
38	48	N	14	W	16	38.9545784	-92.50263214
121	48	N	14	W	16	38.95497513	-92.49755096

Table A: Attachment for Form M: Sinkholes in Boone County (Application question 14)

DNR SINKHOLE	TOWNSHIP	YDIR	RANGE	XDIR	SECT	LATITUDE	LONGITUDE
36	48	N	14	W	16	38.95502853	-92.50214386
35	48	N	14	W	16	38.9559021	-92.50324249
33	48	N	14	W	16	38.95644379	-92.50204468
31	48	N	14	W	16	38.95711517	-92.50097656
29	48	N	14	W	16	38.95820236	-92.50212097
11	48	N	14	W	16	38.95849228	-92.50697327
365	48	N	14	W	16	38.95951843	-92.49880981
62	48	N	14	W	17	38.94684982	-92.51659393
56	48	N	14	W	17	38.94848633	-92.51657867
54	48	N	14	W	17	38.94903564	-92.51493073
52	48	N	14	W	17	38.9495697	-92.51490784
55	48	N	14	W	17	38.94964981	-92.51694489
46	48	N	14	W	17	38.95184708	-92.52098083
43	48	N	14	W	17	38.95298767	-92.51516724
42	48	N	14	W	17	38.95337677	-92.51622772
39	48	N	14	W	17	38.95426941	-92.52388
37	48	N	14	W	17	38.95522308	-92.52378845
34	48	N	14	W	17	38.95626831	-92.52523041
32	48	N	14	W	17	38.95731354	-92.51850891
28	48	N	14	W	17	38.95813751	-92.52531433
30	48	N	14	W	17	38.95827103	-92.52313232
27	48	N	14	W	17	38.95964432	-92.51935577
25	48	N	14	W	17	38.95994186	-92.52022552
24	48	N	14	W	17	38.9601326	-92.51895905
69	48	N	14	W	21	38.93762207	-92.50888824
70	48	N	14	W	21	38.93763351	-92.50319672
68	48	N	14	W	21	38.93881607	-92.50430298
67	48	N	14	W	21	38.94161606	-92.50714874
65	48	N	14	W	21	38.94373322	-92.50095367
64	48	N	14	W	21	38.94400024	-92.5002594
149	48	N	14	W	21	38.9443779	-92.49697876
379	48	N	14	W	21	38.94478226	-92.50543976
367	48	N	14	W	21	38.94507217	-92.51119232
373	48	N	14	W	21	38.94509125	-92.50518799
63	48	N	14	W	21	38.94514465	-92.50093842
374	48	N	14	W	21	38.94577026	-92.50512695
153	48	N	14	W	22	38.94091415	-92.4928894
152	48	N	14	W	22	38.94189072	-92.49106598
151	48	N	14	W	22	38.94304657	-92.49273682
150	48	N	14	W	22	38.94406509	-92.49140167
148	48	N	14	W	22	38.94538498	-92.4949646

Table A: Attachment for Form M: Sinkholes in Boone County (Application question 14)

DNR SINKHOLE	TOWNSHIP	YDIR	RANGE	XDIR	SECT	LATITUDE	LONGITUDE
146	48	N	14	W	22	38.94544601	-92.49007416
339	49	N	13	W	19	39.01618576	-92.41583252
334	49	N	13	W	19	39.01665497	-92.41664124
380	49	N	13	W	19	39.01792908	-92.41681671
394	49	N	13	W	19	39.01886749	-92.41656494
393	49	N	13	W	19	39.01891327	-92.417099
323	49	N	13	W	19	39.01894379	-92.4154129
321	49	N	13	W	19	39.01997375	-92.41903687
320	49	N	13	W	19	39.02051163	-92.417099
317	49	N	13	W	19	39.0210228	-92.41622162
341	49	N	13	W	20	39.01486969	-92.40387726
416	49	N	13	W	20	39.01564789	-92.40301514
338	49	N	13	W	20	39.01594925	-92.40396118
337	49	N	13	W	20	39.01609802	-92.41419983
336	49	N	13	W	20	39.01628113	-92.40339661
335	49	N	13	W	20	39.01665878	-92.41424561
333	49	N	13	W	20	39.01678467	-92.4131546
332	49	N	13	W	20	39.01686859	-92.4002533
330	49	N	13	W	20	39.01740646	-92.40019226
329	49	N	13	W	20	39.01769638	-92.39700317
328	49	N	13	W	20	39.01807785	-92.40163422
327	49	N	13	W	20	39.01820374	-92.40213013
325	49	N	13	W	20	39.01832581	-92.41378021
326	49	N	13	W	20	39.01837158	-92.40052032
324	49	N	13	W	20	39.01838303	-92.41310883
331	49	N	13	W	20	39.01847076	-92.40990448
322	49	N	13	W	20	39.01905823	-92.41464996
381	49	N	13	W	20	39.01984406	-92.41334534
319	49	N	13	W	20	39.02053833	-92.41433716
318	49	N	13	W	20	39.02111816	-92.41105652
316	49	N	13	W	20	39.02122116	-92.39890289
315	49	N	13	W	20	39.02189255	-92.40209198
382	49	N	13	W	21	39.01783371	-92.39575958
410	49	N	13	W	22	39.02262115	-92.37042999
418	49	N	13	W	27	39.00151062	-92.36878967
409	49	N	13	W	27	39.00212097	-92.36852264
364	49	N	13	W	29	39.00522614	-92.4145813
363	49	N	13	W	29	39.00786972	-92.41485596
362	49	N	13	W	29	39.00858688	-92.41472626
359	49	N	13	W	29	39.00944519	-92.41465759
356	49	N	13	W	29	39.01107025	-92.4140625

Table A: Attachment for Form M: Sinkholes in Boone County (Application question 14)

DNR SINKHOLE	TOWNSHIP	YDIR	RANGE	XDIR	SECT	LATITUDE	LONGITUDE
353	49	N	13	W	29	39.01109314	-92.39854431
351	49	N	13	W	29	39.01154709	-92.40013123
347	49	N	13	W	29	39.01196671	-92.39865875
345	49	N	13	W	29	39.01295471	-92.40048218
343	49	N	13	W	29	39.01305771	-92.39965057
361	49	N	13	W	30	39.00878143	-92.4199295
360	49	N	13	W	30	39.0089798	-92.42092896
358	49	N	13	W	30	39.00926208	-92.41977692
357	49	N	13	W	30	39.01010132	-92.41899109
354	49	N	13	W	30	39.01132965	-92.41744995
352	49	N	13	W	30	39.01150131	-92.41941833
350	49	N	13	W	30	39.01167297	-92.41788483
355	49	N	13	W	30	39.0118866	-92.41909027
349	49	N	13	W	30	39.01189804	-92.41887665
348	49	N	13	W	30	39.01198578	-92.41620636
346	49	N	13	W	30	39.0126152	-92.41744995
344	49	N	13	W	30	39.01305771	-92.41710663
342	49	N	13	W	30	39.01344681	-92.41985321
400	49	N	13	W	30	39.01435471	-92.42190552
340	49	N	13	W	30	39.01475906	-92.41564941
408	49	N	14	W	26	39.01157761	-92.45912933
93	49	N	14	W	35	38.98905945	-92.46683502
91	49	N	14	W	35	38.98993683	-92.46691132
90	49	N	14	W	35	38.99131775	-92.46266174
92	49	N	14	W	35	38.99156189	-92.46614075
88	49	N	14	W	35	38.99176025	-92.46161652
402	49	N	14	W	35	38.99210739	-92.46003723
89	49	N	14	W	35	38.99228287	-92.46339417
86	49	N	14	W	35	38.99295425	-92.46658325
87	49	N	14	W	35	38.99316406	-92.46736145
84	49	N	14	W	35	38.99326324	-92.4622345
85	49	N	14	W	35	38.99342728	-92.45967102
81	49	N	14	W	35	38.99383545	-92.46231079
82	49	N	14	W	35	38.99385834	-92.46765137
83	49	N	14	W	35	38.99395752	-92.46652222
78	49	N	14	W	35	38.99694443	-92.46561432
79	49	N	14	W	35	38.9970665	-92.4640274
76	49	N	14	W	35	38.99716187	-92.46268463
77	49	N	14	W	35	38.99716949	-92.46136475
75	49	N	14	W	35	38.99778748	-92.46107483
391	49	N	14	W	35	38.99792862	-92.46969604

Table A: Attachment for Form M: Sinkholes in Boone County (Application question 14)

DNR SINKHOLE	TOWNSHIP	YDIR	RANGE	XDIR	SECT	LATITUDE	LONGITUDE
74	49	N	14	W	35	38.99855042	-92.4630127
390	49	N	14	W	35	38.99869537	-92.46945953
73	49	N	14	W	35	38.99879456	-92.46141815
72	49	N	14	W	35	38.99905777	-92.46220398
389	49	N	14	W	35	38.99966049	-92.46824646
71	49	N	14	W	35	38.99983978	-92.46073151
392	49	N	14	W	35	39.00174332	-92.46787262
80	49	N	14	W	36	38.99401474	-92.44075775
314	50	N	12	W	18	39.12658691	-92.3098526
311	51	N	13	W	24	39.18982697	-92.33003235
383	51	N	13	W	25	39.18682098	-92.33110809
313	51	N	13	W	35	39.16188431	-92.34519196
312	51	N	13	W	35	39.16365814	-92.35167694
411	51	N	13	W	36	39.16962433	-92.32398987

Table B: Attachment for Form M: Losing Streams in Boone County (Application question 14)

Stream Name	MILES	STREAM ID	REACH CODE	Start (Long)	Start (Lat)	Stop (Long)	Stop (Lat)
Gans Creek	12.98	19006116000	10300102001175	-92.28954629280	38.88202454770	-92.28742335970	38.88341294850
Tributary to Bell Branch	0.63	190032197000	10300102003500	-92.52292955900	38.96682599430	-92.53068778310	38.96898457130
Fox Hollow Branch	2.07	19001884000	10300102001068	-92.32820689420	38.78065266130	-92.33593356290	38.78111646140
Fox Hollow Branch	2.07	19001884000	10300102001069	-92.31364472940	38.78200919330	-92.32820689420	38.78065266130
Fox Hollow Branch	2.07	19001884000	10300102001067	-92.33593356290	38.78111646140	-92.34279729900	38.78391012760
Fox Hollow Branch	2.07	19001884000	10300102001066	-92.34279729900	38.78391012760	-92.34668056690	38.78501112800
Fox Hollow Branch	2.07	19001884000	10300102001065	-92.34668056690	38.78501112800	-92.34801056780	38.78540893620
Gans Creek	12.98	19006116000	10300102001176	-92.28742335970	38.88341294850	-92.27571001560	38.89446791280
Bonne Femme Creek	5.60	19000484000	10300102000238	-92.27159568600	38.86280367860	-92.29648935810	38.84332687440
Bonne Femme Creek	5.60	19000484000	10300102000237	-92.29648935810	38.84332687440	-92.30470949320	38.83569407240
Bonne Femme Creek	5.60	19000484000	10300102000239	-92.26292355210	38.87541988140	-92.27159568600	38.86280367860
Tributary to Jemerson Creek	1.87	19001582000	10300102009648	-92.27416334340	38.74984172540	-92.27842987720	38.74439792460
Tributary to Jemerson Creek	0.60	19001582000	10300102009666	-92.28421554650	38.74773492520	-92.29093568070	38.74112172340
Tributary to Jemerson Creek	0.55	19001582000	10300102009655	-92.27357074290	38.74471932500	-92.27481647690	38.74329412420
Tributary to Jemerson Creek	0.55	19001582000	10300102009646	-92.27116148390	38.74637420310	-92.27357074290	38.74471932500
Tributary to Jemerson Creek	0.20	19001582000	10300102009649	-92.27019838630	38.74433942050	-92.27357074290	38.74471932500
Tributary to Slate Creek	1.15	19000682000	10300102004022	-92.25839629660	38.70694322360	-92.27442567280	38.69998045030
Tributary to Slate Creek	0.68	19000682000	10300102009939	-92.25976707750	38.69580690850	-92.26785167080	38.70186805070
Slate Creek	1.97	19000682000	10300102001385	-92.26671987270	38.72036252100	-92.27742207330	38.69819651650
Sinking Creek	3.01	19025099000	10300102008335	-92.49671617870	38.97199178200	-92.49864342490	38.96696428440
Sinking Creek	3.01	19025099000	10300102008389	-92.50330195930	38.96620255030	-92.51240436020	38.95926414900
Sinking Creek	3.01	19025099000	10300102008343	-92.49864342490	38.96696428440	-92.50330195930	38.96620255030
Tributary to Jemerson Creek	0.59	19001582000	10300102009681	-92.30441315120	38.74547172340	-92.30149335000	38.73809405590
Tributary to Fowler Creek	1.58	19000984000	10300102004204	-92.23264813410	38.76874573140	-92.22739646420	38.74875892790
Tributary to Jemerson Creek	1.87	19001582000	10300102004013	-92.27842987720	38.74439792460	-92.29847168260	38.74001365600
Tributary to Slate Creek	0.46	19000682000	10300102009866	-92.27163307350	38.71455345330	-92.27224813950	38.70833005170
Tributary to Jemerson Creek	0.55	19001582000	10300102004013	-92.27481647690	38.74329412420	-92.27842987720	38.74439792460
Tributary to Slate Creek	0.40	19000682000	10300102004025	-92.26097193720	38.71890252070	-92.25834167530	38.71371837030
Tributary to Slate Creek	0.47	19000682000	10300102009890	-92.28379647550	38.71050991820	-92.27896914140	38.70560485110
Tributary to Slate Creek	1.30	19000682000	10300102004024	-92.26450433850	38.71905465420	-92.27370233970	38.70328331770
Tributary to Little Bonne Femme Creek	1.06	19000179000	10300102003935	-92.33736890640	38.88821468010	-92.33740577170	38.87433627720
Tributary to Bonne Femme Creek	2.15	19001984000	10300102003964	-92.29136938490	38.82282611350	-92.32085356260	38.82625233650
Tributary to Gans Creek	0.92	19000482000	10300102008879	-92.31289436580	38.88580868080	-92.31953616760	38.87579294540
Tributary to Bonne Femme Creek	1.93	19035395000	10300102003989	-92.24074007830	38.86513508130	-92.27159568600	38.86280367860
Tributary to Clear Creek	1.21	19000382000	10300102003934	-92.31944390340	38.90737148440	-92.32283590240	38.89190228140
Jemerson Creek	0.45	19001582000	10300102001112	-92.29847168260	38.74001365600	-92.30447613180	38.73715256570
Bass Creek	0.79	19001784000	10300102000853	-92.27719435140	38.82870627280	-92.28336677630	38.83053912370
Tributary to Bonne Femme Creek	0.76	19007301000	10300102009113	-92.32484649870	38.83890807170	-92.32262689780	38.83875353860
Tributary to Jemerson Creek	0.23	19001582000	10300102004013	-92.27220142430	38.74102939410	-92.27481647690	38.74329412420
Sinking Creek	3.01	19025099000	10300102001375	-92.51240436020	38.95926414900	-92.51386028190	38.94929139210
Tributary to Clear Creek	0.30	19223202000		-92.32852516930	38.89347707390	-92.32390510300	38.89153054760
Sinking Creek	0.45	19090706000		-92.48914358050	38.97494664280	-92.49600148950	38.97161630530
Tributary to Bonne Femme Creek	0.76	19007301000		-92.33400326020	38.84197194650	-92.32484649870	38.83890807170

CERTIFIED COPY OF ORDER

STATE OF MISSOURI }
County of Boone } ea.

February Session of the January Adjourned

Term. 20 20

In the County Commission of said county, on the 27th day of February 20 20

the following, among other proceedings, were had, viz:

Now on this day, the County Commission of the County of Boone does hereby approve the attached Contract Amendment Number One to Contract 125-043017SS – Furnishing and Delivery of Watershed Monitoring Equipment (Single Feasible Source).

Terms of the amendment are stipulated in the attached Amendment. It is further ordered the Presiding Commissioner is hereby authorized to sign said Contract Amendment Number One.

Done this 27th day of February 2020.

ATTEST:

Brianna L. Lennon
Brianna L. Lennon
Clerk of the County Commission

Daniel K. Atwill
Daniel K. Atwill
Presiding Commissioner

Absent
Fred J. Parry
District I Commissioner

Janet M. Thompson
Janet M. Thompson
District II Commissioner

Boone County Purchasing

Liz Palazzolo
Senior Buyer



613 E. Ash, Room 109
Columbia, MO 65201
Phone: (573) 886-4392
Fax: (573) 886-4390

MEMORANDUM

TO: Boone County Commission
FROM: Liz Palazzolo, CPPO, C.P.M.
DATE: February 18, 2020
RE: Amendment #1 to 125-043017SS – Furnishing and Delivery of Watershed Monitoring Equipment (Single Feasible Source)

Amendment #1 to contract 125-043017SS for the Furnishing and Delivery of Watershed Monitoring Equipment that was awarded March 1, 2016 (Commission Order 102-2016) is being amended to add a new water gauge alarm – the XLINK500 with HSPA Cell Modem and related service.

All other terms, conditions and prices of the original agreement remain unchanged.

Payment will be made from the following Department/Account codes:

- 1725 – Stormwater Distribution/91300 – Machinery & Equipment
- 1725 – Stormwater Distribution/48050 - Cellular/Mobile Device Service
- 1725 – Stormwater Distribution/70100 – Software Subscriptions
- 2046 – Resource Management Stormwater Administration/91300 – Machinery & Equipment
- 2046 – Resource Management Stormwater Administration/48050 - Cellular/Mobile Device Service
- 2046 – Resource Management Stormwater Administration/70100 – Software Subscriptions

/lp

cc: Contract File

**CONTRACT AMENDMENT NUMBER ONE
AGREEMENT FOR
THE FURNISHING AND DELIVERY OF WATERSHED MONITORING EQUIPMENT**

The Agreement **125-043017SS** dated March 1, 2016 made by and between Boone County, Missouri and **Ott Hydromet Corporation** (formerly the Sutron Corporation) for and in consideration of the performance of the respective obligations of the parties set forth herein, is amended as follows:

1. **ADD** the XLINK500 with HSPA Cell Modem (AT&T), the Cellular Data Plan, and the Hydromet Cloud Hosted Data Software are detailed and priced in Quotation 19-013107 incorporated into the contract as Attachment One.
2. The contractor's name shall be changed from Sutron Corporation to **Ott Hydromet Corporation** per the attached letter dated October 4, 2018 incorporated into the contract as Attachment Two.
3. Except as specifically amended hereunder, all other terms, conditions and provisions of the original agreement shall remain in full force and effect.

IN WITNESS WHEREOF the parties through their duly authorized representatives have executed this agreement on the day and year first above written.

OTT HYDROMET CORPORATION

BOONE COUNTY, MISSOURI

By: Boone County Commission

By: DocuSigned by:
Shawneen Wildman
7D9B6F1D62F849E... _____
Signature
By: Customer Contact Manager
_____ Title

DocuSigned by:
Daniel K. Atwill
BA4B934CE0654E... _____
Presiding Commissioner

APPROVED AS TO FORM:

ATTEST:

DocuSigned by:
Charly J. D'Amore
5626A0DD50AC45... _____
County Counselor

DocuSigned by:
Brianna L. Lennon by MT
7D92DA966BF8495... _____
County Clerk

Commission Order: 99-2020

AUDITOR CERTIFICATION: In accordance with §RSMo 50.660, I hereby certify that a sufficient unencumbered appropriation balance exists and is available to satisfy the obligation(s) arising from this contract. (Note: Certification of this contract is not required if the terms of this contract do not create a measurable county obligation at this time.)

1725/91300: \$2,211.12; 1725/48050: \$186.43; 1725/70100: \$1,148.45; 2046/91300: \$2,211.12; 2046/4805: \$186.43; 2046/70100: \$1,148.45.

DocuSigned by:
Quinn E. Pritchard
Signature

2/20/2020

Date

Appropriation Account

Attachment One



QUOTATION

SUTRON

Division of OTT HydroMet

Date 03 Jan 2020
 Quotation Number 19-013107
 Valid For 30 Days

Bill To:
 Boone County MO
 801 E. Walnut, RM 315
 Columbia, Missouri 65201
 lhooper@boonecountymmo.org

Ship To:
 Boone County MO
 801 E. Walnut, RM 315
 Columbia, Missouri 65201

XLINK500 with HSPA Cell Modem (AT&T)

No	Part #	Product Description	Qty	Unit Price (USD)	Ext. Price (USD)
1	XLINK500-C5-1	XLINK 500 HSPA XLINK 500 HSPA 91300	2.0	1,704.65	3,409.30
2	2271-1205-1	Cell Antenna w/Mount 91300	2.0	163.77	327.54
3	LL400-15-N-SMA	Cellular Antenna Cable (15 ft) SMA to N 91300	2.0	92.70	185.40
4	9600-0000i	Factory Assembly wiring & testing per unit Notes: Integration, configuration and testing of data logger 91300	2.0	250.00	500.00
Group Subtotal Price					4,422.24

Cellular Data Plan

No	Part #	Product Description	Qty	Unit Price (USD)	Ext. Price (USD)
5	WGPRS.ACT	Activation - One Time Charge 48050	2.0	62.83	125.66
6	WGPRS.1MB PLAN	Monthly Plan - Per Month 48050	24.0	10.30	247.20
Group Subtotal Price					372.86

Hydromet Cloud Hosted Data Software

No	Part #	Product Description	Qty	Unit Price (USD)	Ext. Price (USD)
7	9400-0400	Hydromet Cloud Client Setup (one-time fee for new Web User Account) 70100	1.0	1,030.00	1,030.00
8	9400-0402	Hydromet Cloud Station Setup (one-time fee per new station) 70100	2.0	257.50	515.00
9	9400-0403	Hydromet Cloud Per-Station Annual Fee for first 25 Stations 70100	2.0	375.95	751.90
Group Subtotal Price					2,296.90

1725 = \$3548
 2046 = \$3548
 7096



Attachment Two

OTT Hydromet Corp. | 22400 Davis Drive, Suite #100 | Sterling, VA 20164 | USA | +1 (703) 406-2800 | sales@otthydromet.com | www.otthydromet.com

October 4, 2018

Dear Sutron Corp. Customers,

You may know that Sutron Corp. joined OTT HydroMet Group 3 years ago, to become one of the leading hydro-meteorological manufacturers worldwide. Joining OTT HydroMet Group created exciting synergies with Sutron Corp's global business. To complete our integration, we will operate as one legal entity – OTT HydroMet Corp. - going forward. The name change is effective immediately, and you will see all communication going forward coming from OTT HydroMet Corp.

In the last 3 years, OTT HydroMet also acquired two meteorology companies – Kipp & Zonen and Lufft. Their US operations will also become part of this new OTT HydroMet Corp. entity.

As one Company, we can offer better end-to-end solutions for our customers, and serve our end customers and integrators more effectively and efficiently. Today, customers will typically contact each of the brands in the Group individually, and we aim at streamlining and simplifying this process for our customers. We truly want to offer our customers a "One Company" experience.

OTT Hydromet Corp. is based in Sterling, Virginia, and represents such brands as OTT, Sutron, Lufft, Hydrolab, and Meteostar. Besides the formal integration and name change to OTT HydroMet Corp, there will be no other changes for you. We will remain at our Sterling, VA location, and remittance address, Customer Service and Technical Support contacts remain the same:

OTT HydroMet Corp.
22400 Davis Dr.
Sterling, VA 20164
(703) 406-2800
sales@otthydromet.com

Rest assured that our cooperation will remain the same. Existing contracts and agreements will remain in full force and effect and will be performed by OTT HydroMet Corp. going forward. Should you have any questions regarding this transition, please reach out to your contact person at any time.

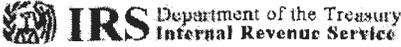
With best regards,

A handwritten signature in black ink, appearing to read "Erik Valks".

Erik Valks
Vice President, Sales
OTT HydroMet

A handwritten signature in black ink, appearing to read "Ashish Raval".

Ashish Raval
Vice President, Global Projects & Tenders
OTT HydroMet



OGDEN UT 84201-0046

In reply refer to: 0423642625
Dec. 18, 2018 LTR 252C 0
54-1006352 000000 00
00004878
BODC: LM

OTT HYDROMET CORP
% GLEN GOOLD
22400 DAVIS DRIVE
STERLING VA 20164-7127



012526

Taxpayer Identification Number: 54-1006352

Dear Taxpayer:

Thank you for the inquiry dated Dec. 07, 2018.

We have changed the name on your account as requested. The number shown above is valid for use on all tax documents.

If you need forms, schedules, or publications, you may get them by visiting the IRS website at www.irs.gov or by calling toll-free at 1-800-TAX-FORM (1-800-829-3676).

If you have any questions, please call us toll free at 1-800-829-0115.

If you prefer, you may write to us at the address shown at the top of the first page of this letter.

Whenever you write, please include this letter and, in the spaces below, give us your telephone number with the hours we can reach you. Also, you may want to keep a copy of this letter for your records.

Telephone Number () _____ Hours _____

Sincerely yours,

Joe I. Jacquez
Entity Department Manager

Enclosure(s):
Copy of this letter

CERTIFIED COPY OF ORDER

STATE OF MISSOURI

} ea.

February Session of the January Adjourned

Term. 20 20

County of Boone

In the County Commission of said county, on the

27th

day of

February

20 20

the following, among other proceedings, were had, viz:

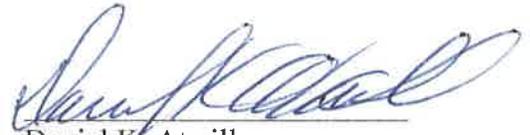
Now on this day, the County Commission of the County of Boone does hereby approve the request by the Purchasing Department to dispose of one (1) Ricoh Aficio MP C4501 copier, fixed asset tag 18031 and one (1) Kyocera Taskalfa 4500CI copier, fixed asset tag 18502 by trade.

It is further ordered the Presiding Commissioner is hereby authorized to sign said Request for Disposal Forms.

Done this 27th day of February 2020.

ATTEST:


Brianna L. Lennon
Clerk of the County Commission



Daniel K. Atwill
Presiding Commissioner



Fred J. Parry
District I Commissioner



Janet M. Thompson
District II Commissioner

Boone County Purchasing

Melinda Bobbitt, CPPO
Director of Purchasing



613 E. Ash St., Room 110
Columbia, MO 65201
Phone: (573) 886-4391
Fax: (573) 886-4390

MEMORANDUM

TO: Boone County Commission
FROM: Melinda Bobbitt, CPPO, CPPB
DATE: February 6, 2015
RE: Surplus Copiers for Amendment Number Two – AEPA-017-B – Copier with Maintenance for Resource Management and Road & Bridge

Contract Amendment Number Two for *AEPA-017-B – Photocopier(s) with Maintenance* was approved by commission for award to Image Technologies of Missouri, located in Columbia, Missouri on February 11, 2019.

I forgot to include the Disposal Forms for the two trade-in copiers. Purchasing is seeking permission to dispose of two copiers by trade.

Ricoh Aficio MP C4501, serial # V9524901171, asset tag 18031

Kyocera Taskalfa 4500CI, Serial # NWS2Y01161, asset tag 18502

Image Technologies will haul off and recycle at the time they install the new copiers. The hard drives will be removed and left with our Information Technology department.

cc: Contract File

Capital

BOONE COUNTY

Request for Disposal/Transfer of County Property

Complete, sign, and return to Auditor's Office

Date: 01/02/2020

Fixed Asset Tag Number: 18031

Description of Asset: Ricoh Aficio MP C4501 Copier

Requested Means of Disposal: Sell Trade-In Recycle/Trash Other, Explain:

Other Information (Serial number, etc.): SN: V9524901171

RECEIVED

Condition of Asset: Good

DEC 31 2019

Reason for Disposition: Planned replacement (life cycle) for FY 2020

**BOONE COUNTY
AUDITOR**

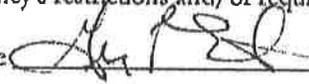
Location of Asset and Desired Date for Removal to Storage: NA

Was asset purchased with grant funding? YES NO

If "YES", does the grant impose restriction and/or requirements pertaining to disposal? YES NO

If yes, attach documentation demonstrating compliance with the agency's restrictions and/or requirements.

Dept Number & Name: 2040 Road & Bridge

Signature 

To be Completed by: AUDITOR

Original Acquisition Date 4/4/12

G/L Account for Proceeds 2040-3835 J

Original Acquisition Amount 9772.00

Original Funding Source 2741

Account Group 1601

To be Completed by: COUNTY COMMISSION / COUNTY CLERK

Approved Disposal Method:

Transfer Department Name _____ Number _____

Location within Department _____

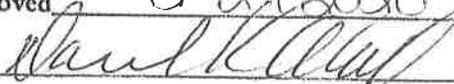
Individual _____

Trade Auction Sealed Bids

Other Explain _____

Commission Order Number 100-2020

Date Approved 2-27-2020

Signature 

Capital

BOONE COUNTY

Request for Disposal/Transfer of County Property

Complete, sign, and return to Auditor's Office

RECEIVED

Date: 1/10/2020

Fixed Asset Tag Number: 18502

JAN 10 2020

Description of Asset: Copier

BOONE COUNTY
AUDITOR

Requested Means of Disposal: Sell Trade-In Recycle/Trash Other, Explain:

RECEIVED

Other Information (Serial number, etc.): NWS2Y01161

JAN 11 2020

Condition of Asset: Fair

BOONE COUNTY
AUDITOR

Reason for Disposition: Replacing with newer machine

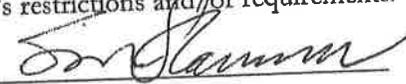
Location of Asset and Desired Date for Removal to Storage: Resource Management

Was asset purchased with grant funding? YES NO

If "YES", does the grant impose restriction and/or requirements pertaining to disposal? YES NO
If yes, attach documentation demonstrating compliance with the agency's restrictions and/or requirements.

Dept Number & Name: 1710 Planning & Zoning

Signature



To be Completed by: AUDITOR

Original Acquisition Date 3/7/13

G/L Account for Proceeds 1190-3835-3

Original Acquisition Amount 13,585.00

Original Funding Source 2731 + 2741

Account Group 1601

To be Completed by: COUNTY COMMISSION / COUNTY CLERK

Approved Disposal Method:

Transfer Department Name _____ Number _____

Location within Department _____

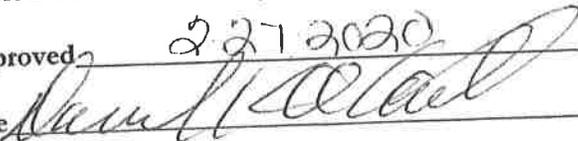
Individual _____

Trade Auction Sealed Bids

Other Explain _____

Commission Order Number 100-2020

Date Approved 2/27/2020

Signature 

CERTIFIED COPY OF ORDER

STATE OF MISSOURI

February Session of the January Adjourned

Term. 20 20

County of Boone

} ea.

In the County Commission of said county, on the

27th

day of

February

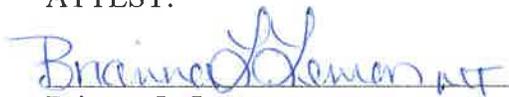
20 20

the following, among other proceedings, were had, viz:

Now on this day, the County Commission of the County of Boone does hereby acknowledge receipt of the attached Chapter 100 Compliance Report from Aurora Organic Dairy for the period ending September 30, 2019.

Done this 27th day of February 2020.

ATTEST:


Brianna L. Lennon
Clerk of the County Commission


Daniel K. Atwill
Presiding Commissioner

Absent
Fred J. Parry
District I Commissioner

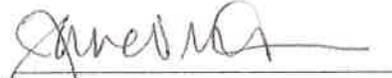

Janet M. Thompson
District II Commissioner

EXHIBIT B

ANNUAL COMPLIANCE REPORT

Date: November 10th, 2019

A. COMPANY INFORMATION.

Name: Aurora Organic Dairy Corp.

Address: 4525 Waco Road

City: Columbia State: MO Zip Code: 65202

Contact: Cammie Muller Telephone: (303) 938-5827

Title: Chief Financial Officer Fax: (720) 564-0409

B. EMPLOYMENT INFORMATION.

1. For each of the "Plant Management," "Maintenance," and "Quality" occupational classifications, the number of Jobs and the Average Wages for each of the immediately preceding [9-months ending on September 30, 2019] [~~12 months ending on September 30, 20~~ (the September 30th immediately prior to this Report)] is set forth in the table below in the applicable columns labeled "No. of Jobs" and "Average Wages":

Month	Plant Management Classification		Maintenance Classification		Quality Classification	
	No. of Jobs	Average Wages	No. of Jobs	Average Wages	No. of Jobs	Average Wages
October						
November						
December						
January	12	\$6,927.68	12	\$5,924.70	6	\$2,387.40
February	13	\$3,369.27	15	\$3,101.19	8	\$1,683.93
March	15	\$13,012.88	15	\$9,779.28	10	\$4,608.60
April	15	\$6,663.13	15	\$6,287.87	11	\$3,341.94
May	16	\$6,480.93	15	\$6,102.42	12	\$3,296.01
June	16	\$6,499.24	15	\$6,358.14	12	\$3,432.48
July	16	\$6,868.87	15	\$6,644.42	13	\$3,620.49
August	15	\$10,028.90	15	\$9,672.35	13	\$5,183.00
September	15	\$3,337.10	15	\$3,062.48	13	\$1,681.54
9-Month Average	15	\$7,020.89	15	\$6,325.87	11	\$3,248.38

2. For each of the “Production” and “Warehouse” occupational classifications, the number of Jobs and the Average Wages for each of the immediately preceding [9-months ending on September 30, 2019] [~~12-months ending on September 30, 20~~] (the September 30th immediately prior to this Report)) is set forth in the table below in the applicable columns labeled “No. of Jobs” and “Average Wages”:

Month	Production Classification		Warehouse Classification	
	No. of Jobs	Average Wages	No. of Jobs	Average Wages
October				
November				
December				
January	31	\$3,021.88	10	\$2,934.95
February	39	\$2,021.05	16	\$1,646.64
March	43	\$4,432.06	16	\$5,614.87
April	54	\$3,195.87	13	\$3,750.86
May	57	\$3,178.07	13	\$3,141.52
June	55	\$3,191.70	13	\$3,228.93
July	58	\$3,224.40	13	\$3,291.47
August	54	\$4,984.68	14	\$4,850.91
September	54	\$1,703.27	15	\$1,490.32
9-Month Average	49	\$3,217.00	14	\$3,327.83

3. For each of the Plant Management, Maintenance, Quality, Production and Warehouse occupational classifications, the “Total Jobs” (equal to the [9-month] [~~12-month~~] average of No. of Jobs for the applicable occupational classification set forth in the tables above) and the “Average Wages By Class” (equal to the [9-month] [~~12-month~~] average of the Average Wages for the applicable occupational classifications set forth above) are included in the table below:

Occupational Classification	Total Jobs (equal to 9-month average)	Average Wage By Class (equal to 9-month average)
Plant Management Classification	15	\$84,250.66
Maintenance Classification	15	\$75,910.47
Quality Classification	11	\$38,980.52
Production Classification	49	\$38,603.97
Warehouse Classification	14	\$39,933.93

4. The Average County Wages for the period prior to the Test Date was: \$39,186.00
- o 100% of the Average County Wages = \$39,186.00 (for purposes of determining Qualifying Jobs for Plant Management, Maintenance and Quality occupational classifications)
 - o 90% of the Average County Wages = \$35,267.40 (for purposes of determining Qualifying Jobs for Production and Warehouse occupational classifications)

5. Did the Average Wage By Class for each of the following Plant Management, Maintenance and Quality occupational classifications equal at least 100% of the Average County Wages?

- Plant Management: x Yes No
 - *If yes, then Total Jobs for Plant Management (in table above) all count as "Qualifying Jobs"*
 - Total "Qualifying Jobs" for Plant Management classification: 15

- Maintenance: x Yes No
 - *If yes, then Total Jobs for Maintenance (in table above) all count as "Qualifying Jobs"*
 - Total "Qualifying Jobs" for Maintenance classification: 15

- Quality: Yes x No
 - *If yes, then Total Jobs for Quality (in table above) all count as "Qualifying Jobs"*
 - Total "Qualifying Jobs" for Quality classification: 0

6. Did the Average Wage By Class for each of the following Production and Warehouse occupational classes equal at least 90% of the Average County Wages?

- Production: x Yes No
 - *If yes, then Total Jobs for Production (in table above) all count as "Qualifying Jobs"*
 - Total "Qualifying Jobs" for Production classification: 49

- Warehouse: x Yes No
 - *If yes, then Total Jobs for Maintenance (in table above) all count as "Qualifying Jobs"*
 - Total "Qualifying Jobs" for Warehouse classification: 14

7. Based on the answers above, below is a table reflecting the "Qualifying Jobs" within each of the Plant Management, Maintenance, Quality, Production and Warehouse occupational classifications and the "Total Qualifying Jobs" as of this Test Date:

Occupational Classification	Qualifying Jobs
Plant Management	15
Maintenance	15
Quality	0
Production	49
Warehouse	14
TOTAL QUALIFYING JOBS	93

Attached is a copy of a report verifying the above calculation containing at a minimum the following information for each Qualifying Job:

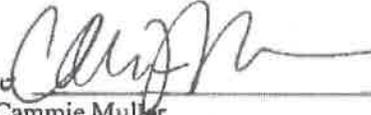
1. Name or last 4 digits of Social Security Number or other agreed upon designation.
2. Hire Date.
3. Separation Date.
4. Annual Wage (however, for privacy purposes, all annual wages may be listed in a manner that does not match a specific wage with a particular employee).

C. CERTIFICATION.

The undersigned hereby represents and certifies that, to the best knowledge and belief of the undersigned, this Annual Compliance Report contains no information or data, contained herein or in the exhibits or attachments, that is false or incorrect in any material respect.

Dated this 12th day of November, 2019.

Signature



Name: Cammie Muller

Title: CFO

CERTIFIED COPY OF ORDER

STATE OF MISSOURI }
County of Boone } ea.

February Session of the January Adjourned

Term. 20 20

In the County Commission of said county, on the 27th day of February 20 20

the following, among other proceedings, were had, viz:

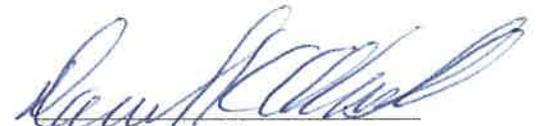
Now on this day, the County Commission of the County of Boone does hereby approve the attached Animal Control Services Cooperative Agreement Between Boone County and the City of Columbia.

Terms of the agreement are stipulated in the attached Agreement. It is further ordered the Presiding Commissioner is hereby authorized to sign said Agreement.

Done this 27th day of February 2020.

ATTEST:


Brianna L. Lennon
Clerk of the County Commission


Daniel K. Atwill
Presiding Commissioner

Absent
Fred J. Parry
District I Commissioner


Janet M. Thompson
District II Commissioner

AGREEMENT

THIS AGREEMENT, is made and entered into on the date of the last signatory noted below, by and between the City of Columbia, Missouri, a municipal corporation, hereinafter called the "City" and Boone County, Missouri, hereinafter called the "County,"

IN CONSIDERATION of the mutual covenants herein contained, it is hereby agreed by and between the Parties as follows:

1. The City agrees to provide the equivalent of two and one-third full-time (2.33 F.T.E) benefited animal control officers for services to Boone County residents living outside the corporate limits of the City. All officers so provided shall be suitably trained employees of the City.
2. The City will provide appropriate materials and supplies associated with supporting the personnel listed in paragraph 1.
3. The City enters into contracts with the Central Missouri Humane Society, a Missouri not-for-profit corporation, for the provision of office space, veterinary care, and kennel facilities. Copies of any such future contracts between the City and the Humane Society or other provider for these services during the term of this agreement shall be forwarded to the Boone County Commission for informational purposes.
4. Capital items previously purchased by the City to provide Animal Control services for Boone County, the cost of which has been reimbursed by the County, shall continue to be used to provide services under this agreement. Such items, however, shall be returned to the County within thirty (30) days of termination of this agreement unless the parties, by written agreement, provide otherwise.
5. The County shall pay City a proportionate share (33%) of the personnel costs, materials and supplies, utilities, travel and training, and other miscellaneous services and intra-governmental charges of the Animal Control division of the City's Public Health and Human Services Department to fulfill its obligations under this agreement. The proportionate amount shall be determined by dividing the total cost for each such category by the number of City animal control officers and multiplying that number by the two and one-third (2.33) full-time equivalent employees provided County under this agreement.

6. An estimate of the County's annualized cost under this agreement is set forth in Schedule A which is attached to and made a part of this agreement.

7. The parties agree that the City will bill the County on a quarterly basis for one-fourth of the total contract amount. By March 1, 2021, a final report will be prepared and will include appropriate accounting documentation for reconciliation purposes. A statistical report of services rendered by the City to the County will be provided annually.

8. During the term of this Agreement, the City will provide liability insurance coverage on the interior space the Health Department occupies (Unit #1 of the Columbia/Boone County Health Department Condominium) in the same manner that it does for other City-owned facilities.

9. This agreement shall be in full force and effect during calendar year 2020; provided, however, that either party may terminate this agreement upon thirty (30) days written notice of the other party.

10. In no event shall the language of this Agreement constitute or be construed as a waiver or limitation for either party's rights or defenses with regard to each party's applicable sovereign, governmental, or official immunities and protections as provided by federal and state constitutions or laws.

IN WITNESS WHEREOF, the parties hereto have caused this Agreement to be signed and executed by their duly authorized officers as of the day and year last written below.

THE CITY OF COLUMBIA, MISSOURI

BY: John Glascock ^{SGS}

John Glascock, ~~Interim~~ City Manager
Date: February 4, 2020

ATTEST:

Sheela Amin
Sheela Amin, City Clerk

APPROVED AS TO FORM:



Nancy Thompson, City Counselor/rw

BOONE COUNTY, MISSOURI

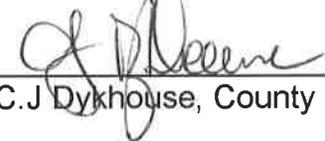
BY: 
Daniel K. Atwill, Presiding Commissioner
Date: 2 27 2020

ATTEST:



Brianna Lennon, County Clerk

APPROVED AS TO FORM:



C.J. Dykhouse, County Counselor

Certification:

I certify that this contract is within the purpose of the appropriation to which it is to be charged and that there is an unencumbered balance of such appropriation sufficient to pay the costs arising from this contract.

 by jj 02/19/2020
Boone County Auditor Date
Acct# 1730 - 71900 \$236,640

SCHEDULE A

ANIMAL CONTROL

Personnel (2.33 FTE) \$146,302

Materials and Supplies \$7,427

Training and Schools \$1,050

Intra-governmental \$18,882

Charges

Utilities, Services, \$62,979

& Other Miscellaneous

Total \$236,640

CERTIFIED COPY OF ORDER

STATE OF MISSOURI

} ea.

February Session of the January Adjourned

Term. 20 20

County of Boone

In the County Commission of said county, on the

27th

day of

February

20 20

the following, among other proceedings, were had, viz:

Now on this day, the County Commission of the County of Boone does hereby approve the attached Public Health Services Cooperative Agreement Between Boone County and the City of Columbia.

Terms of the agreement are stipulated in the attached Agreement. It is further ordered the Presiding Commissioner is hereby authorized to sign said Agreement.

Done this 27th day of February 2020.

ATTEST:


Brianna L. Lennon
Clerk of the County Commission



Daniel K. Atwill
Presiding Commissioner

Absent

Fred J. Parry
District I Commissioner



Janet M. Thompson
District II Commissioner

AGREEMENT

THIS AGREEMENT, is made and entered into on the date of the last signatory noted below, by and between the City of Columbia, Missouri, a municipal corporation, hereinafter called the "City" and Boone County, Missouri, hereinafter called the "County,"

WITNESSTH

WHEREAS, the City and County are empowered in Article VI, Section 16 of the Missouri Constitution, and Section 70.220, RSMo, respectively, to enter into certain cooperative agreements; and

WHEREAS, it is deemed by the parties hereto to be mutually advantageous to the parties to provide public health services for the citizens of Columbia and Boone County during calendar year 2020. Public Health Department services will be equally available to Boone County residents both in and outside the corporate limits of the City.

NOW THEREFORE, in consideration of the mutual covenants herein contained, it is hereby agreed by and between the parties hereto as follows:

I.

For the agreed upon amount specified in Article X, the City agrees to provide public health services to County residents. Said services shall include but are not limited to: home visitation, blood pressure and TB screening, communicable disease control, children's and adult immunizations, family planning, STD/HIV prevention and control, health education and preventative health care will be offered at such places and times determined by the Director of Public Health and Human Services.

II.

For the agreed upon amount specified in Article X, the City will provide social services to county residents. Said services shall include but are not limited to: pregnancy counseling and case management, eligibility, and referrals.

III.

For the agreed upon amount specified in Article X, the City will provide Women, Infants & Children (W.I.C.) nutritional supplemental food program services for persons meeting state and federal eligibility guidelines.

IV.

For the agreed upon amount specified in Article X, the City agrees to provide periodic health screenings, immunizations, and other services in incorporated municipalities in Boone County.

V.

For the agreed upon amount specified in Article X, the City agrees to provide environmental public health services outside the City of Columbia. Services shall include, but not be limited to, enforcement of the Boone County Food Code and Nuisance Ordinance and investigation of environmental health hazards.

VI

For the agreed upon amount specified in Article X, the City agrees to enforce the Boone County onsite wastewater ordinance.

VII.

For the agreed upon amount specified in Article X, the City agrees to administer utility assistance services to eligible Boone County residents, not to exceed the amount specified. Said services will consist of payments to utility providers for the purpose of reconnecting utility service, payment of utility bills to avoid disconnection and referral for weatherization. Said service will be provided to eligible persons according to need as determined by the Director of Public Health and Human Services. The entire amount indicated in Article X will be utilized for payments to utilities without deduction for administrative costs.

VIII.

For the agreed upon amount specified in Article X, the City will administer the medication assistance program to eligible indigent County residents.

IX.

The City hereby agrees that the Director of Public Health and Human Services shall provide the County Commission with recommendations concerning additional or revised public health services and shall be available at reasonable times to consult with County officials as the County officials deem necessary.

X.

Agreed Upon Amounts		Program Cost ¹
	Utility Assistance 1410-86655	\$7,000
Community Services	Medication Assistance 1410-86645	\$5,000
Public Health Services: Administration, Clinic & Nursing, Environmental Health, Social Services, WIC	1410-86680	\$1,161,042
On-Site Sewage ¹	1740-86606	\$108,495
TOTAL		\$1,281,537
¹ On-Site sewage revenues are deposited directly with Boone County.		

XI.

The parties agree that the City will bill the County on a quarterly basis for one-fourth of the total contract amount. By March 1, 2021, a final report will be prepared and will include appropriate accounting documentation for reconciliation purposes. A statistical report of services rendered by the City to the County will be provided annually

XII.

During the term of this Agreement, the City will provide liability insurance coverage on the interior space the Health Department occupies (Unit #1 of the Columbia/Boone County Health Department Condominium) in the same manner that it does for other City-owned facilities.

XIII

In no event shall the language of this Agreement constitute or be construed as a waiver or limitation for either party's rights or defenses with regard to each party's applicable sovereign, governmental, or official immunities and protections as provided by federal and state constitutions or laws.

IN WITNESS WHEREOF, the Parties have hereunto executed this Agreement the day and the year of the last signatory noted below.

THE CITY OF COLUMBIA, MISSOURI

BY: John Glascock SKA
John Glascock, Interim City Manager
Date: February 4, 2020

ATTEST:

Sheela Amin
Sheela Amin, City Clerk

APPROVED AS TO FORM:

Nancy Thompson
Nancy Thompson, City Counselor/rw

BOONE COUNTY, MISSOURI

BY: Daniel K. Atwill
Daniel K. Atwill, Presiding Commissioner
Date: 2-27-2020

ATTEST:

Brianna Lennon
Brianna Lennon, County Clerk

APPROVED AS TO FORM:

C.J. Dykhouse
C.J. Dykhouse, County Counselor

Certification:

I certify that this contract is within the purpose of the appropriation to which it is to be charged and that there is an unencumbered balance of such appropriation sufficient to pay the costs arising from this contract.

June Richford by jj 02/19/2020
Boone County Auditor Date
Accts. Sec 2 \$1,281,537