

387-2023

# CERTIFIED COPY OF ORDER

STATE OF MISSOURI }  
County of Boone } ea.

September Session of the July Adjourned

Term. 20 23


In the County Commission of said county, on the 5th day of September 20 23

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

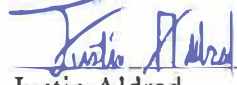
Now on this day, the County Commission of the County of Boone does hereby approve the attached K-9 Maintenance Training Agreement between Boone County and the Marshall Police Department.

The terms of the Agreement are set out in the attached and the Presiding Commissioner is authorized to sign said agreement.

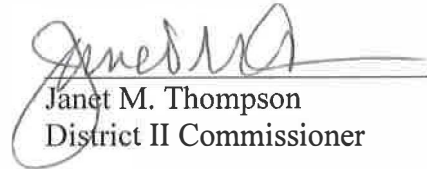
Done this 5<sup>th</sup> day of September 2023.



Kip Kendrick  
Presiding Commissioner



Justin Aldred  
District I Commissioner



Janet M. Thompson  
District II Commissioner

ATTEST:



Brianna L. Lennon  
Clerk of the County Commission

## K-9 MAINTENANCE TRAINING AGREEMENT

THIS AGREEMENT dated the 5<sup>th</sup> day of September 2023, is entered into by and between Boone County, Missouri (County), by and through the Boone County Sheriff's Office (BCSO), and City of Marshall Police Department (Agency):

**WHEREAS**, BCSO can provide K-9 maintenance training through its certified K-9 training staff; and

**WHEREAS**, Agency desires to send its K-9 and handler through the BCSO's K-9 maintenance training program; and

**WHEREAS**, County and Agency have the authority to cooperate with each other for the purposes of this Agreement pursuant to RSMo §70.220;

**NOW, THEREFORE**, it is agreed by and between the parties as follows:

**1. MAINTENANCE TRAINING.** BCSO agrees to provide Agency's K-9 handler and K-9 maintenance training by and through BCSO's certified staff. Training areas will include obedience and narcotics detection with respect to cocaine, heroin, and methamphetamines. The training shall consist of not less than twenty (20) sessions. Agency will receive a certificate documenting successful completion of the BCSO's program.

**2. EMPLOYED STATUS OF K-9 HANDLER.** Agency agrees that the training contemplated herein is within the scope and course of its handler's employment and Agency will be responsible for all appropriate compensation and the provision of Worker's Compensation coverage to Agency's employee. Agency's handler will execute a Waiver & Release as set out in the attached Exhibit "A" prior to being permitted to participate in the training.

**3. CONTRACT PRICE AND PAYMENT.** Agency shall pay County a total sum of One Thousand Dollars (\$1,000.00) for the training contemplated herein, calculated at a rate of \$50/session. Agency shall pay one-half, or \$500.00, upon execution of this contract and the remaining one-half, or \$500.00, after ten (10) sessions have been completed.

**4. TERM AND TERMINATION.** The term of this Agreement shall begin immediately upon execution of the same for a period of one-year and may be renewed for two (2) additional, one-year contracts on the same terms and conditions as set forth herein. Either party may terminate this Agreement at any time by providing the other written notice of their intent to terminate at least 90 days in advance of the intended termination date. In the event of a termination, the parties will reconcile the payments paid and/or due based on the number of sessions attended and the rate of \$50.00 per session.

**5. MODIFICATION AND WAIVER.** No modification or waiver of any provision of this Agreement nor consent to any departure therefrom, shall in any event be effective, unless the same shall be in writing and signed by County and Agency and then such modification, waiver or consent shall be effective only in the specific instance and for the specific purpose for which mutually agreed.

**6. FUTURE COOPERATION.** The parties agree to fully cooperate with each other to give full force and effect to the terms and intent of this Agreement.

7. **ENTIRE AGREEMENT.** The parties state that this document contains the entire agreement between the parties, and there are no other oral, written, express or implied promises, agreements, representations or inducements not specified herein.

8. **AUTHORITY.** The signatories to this Agreement warrant and certify that they have obtained the necessary authority, by resolution or otherwise, to execute this Agreement on behalf of the named party for whom they are signing.

SO AGREED.

AGENCY: Marshall Police Dept.

By: [Signature]

Printed Name: Michael Donnell

Dated: 8-11-2023

ATTEST: \_\_\_\_\_

BOONE COUNTY, MISSOURI

By: [Signature]  
Kip Kendrick, Presiding Commissioner

Dated: 9.5.2023

ATTEST: [Signature]  
Brianna L. Lennon, County Clerk

APPROVED - BCSO: [Signature]  
Dwayne Carey, Sheriff

APPROVED AS TO FORM: [Signature]  
Dykhouse, Boone County Counselor

ACKNOWLEDGED FOR BUDGETING & AUDITING PURPOSES:

[Signature]  
County Auditor

Exhibit "A"

## INFORMED CONSENT WAIVER AND RELEASE

**ASSUMPTION OF RISKS:** I acknowledge that participation in the \_\_K-9 Maintenance Training\_\_ [hereinafter the "Program"] involves physical activities which, by their very nature, carry certain inherent risks that cannot be eliminated regardless of the care taken to avoid injuries. These physical activities involve strenuous exertions of strength using various muscle groups and also involve quick movements using speed and change of direction, all of which could result in injury. These risks range from minor bruises and scratches to more severe injuries, including the risk of heart attacks or other catastrophic injuries. I understand and appreciate that these physical activities carry certain inherent risks and I hereby assert that my participation is voluntary and that I knowingly assume all such risks.

**WAIVER AND RELEASE:** In consideration of accepting my entry into this Program, I hereby, for myself, my heirs, executors, administrators, or anyone else who might claim on my behalf, covenant not to sue, and waive, release and discharge the Boone County Sheriff's Office, Boone County, Missouri, and/or its employees and agents engaged by them for any purpose relating to the Program that I have been permitted to participate in. This release and waiver extends to all claims of every kind of nature, whatsoever, foreseen or unforeseen, known or unknown.

**INDEMNIFICATION AND HOLD HARMLESS:** I also agree to indemnify and hold harmless the Boone County Sheriff's Office, Boone County, Missouri, and/or its employees and agents all from any and all claims, actions, suits, procedures, costs, expenses, damages, and liabilities, including attorney's fees, that result from my participation in or involvement with the Program.

Waivers and Releases for minors are accepted only with a parent/guardian signature.

**Signature of Participant/Date**

*Aaron Waibel -135/259 08/14/23*

**Printed Name of Participant**

*Aaron Waibel*

# CERTIFIED COPY OF ORDER

STATE OF MISSOURI

} ca.

September Session of the July Adjourned

Term. 20 23

County of Boone

In the County Commission of said county, on the

5th

day of

September

20 23

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 Basic K-9 Officer Training Agreement between Boone County and the City of Lake Ozark.

The terms of the Agreement are set out in the attached and the Presiding Commissioner is authorized to sign said agreement.

Done this 5<sup>th</sup> day of September 2023.

ATTEST:



Brianna L. Lennon  
Clerk of the County Commission

  
\_\_\_\_\_

Kip Kendrick  
Presiding Commissioner

  
\_\_\_\_\_

Justin Aldred  
District I Commissioner

  
\_\_\_\_\_

Janet M. Thompson  
District II Commissioner

**CITY OF LAKE OZARK**  
**A Missouri Municipality of the 4th Class**

**BILL NO.: 2023-38**

**ORDINANCE NO.: 2023-38**

***AN ORDINANCE AUTHORIZING THE MAYOR OR HIS DESIGNATED AGENT TO  
ENTER INTO A CONTRACT WITH THE BOONE COUNTY MISSOURI SHERIFF'S  
DEPARTMENT FOR BASIC K9 OFFICER TRAINING***

**WHEREAS**, the City of Lake Ozark, Missouri has a police department that is tasked with professionally serving and protecting the citizens and visitors to the City; and

**WHEREAS**, the City has solicited and received a proposal from the Boone County Sheriff's Department to provide the department with basic training services for the implementation of the K9 officer program; and

**WHEREAS**, it is in the best interest of the City of Lake Ozark, Missouri that the Board of Aldermen authorize the Mayor or his designated agent to contract with the Boone County Sheriff's Department as per the contract attached hereto as Exhibit A.

**Now, therefore, be it ordained by the Board of Aldermen of the City of Lake Ozark, Missouri, as follows:**

**Section 1. Approval of Agreement.** The contract with the Boone County Sheriff's Department is hereby approved in the form submitted to and reviewed by the Board of Aldermen on the date hereof.

**Section 2. Execution:** The Mayor or his designated agent is hereby authorized and directed to execute and deliver the contract on behalf of and as the act and deed of the City of Lake Ozark.

**Section 3. Further Authority.** The Mayor, and the designated officials and agents of City of Lake Ozark are hereby authorized and directed to, take such action, expend such budgeted funds and execute such other documents, certificates and instruments as may be necessary or desirable to carry out and comply with the intent of this Ordinance and to carry out, comply with and perform the duties of the City of Lake Ozark with respect to the contract.

**Section 4. Effective Date.** This ordinance shall take effect and be in full force from and after its adoption by the Board of Alderman.

**First Reading: August 22, 2023**

**Second Reading: August 22, 2023**

**DULY READ AND APPROVED THIS 22nd DAY OF AUGUST 2023.**

Alderman Jackson	Aye
Alderman Ridgely	Aye
Alderman Denny	Aye
Alderman Neels	Aye
Alderman Watts	Aye
Alderman Thompson	Aye

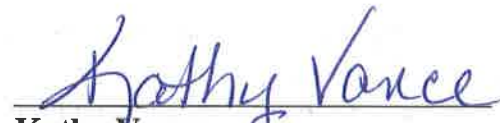
**APPROVE:**

**ATTEST:**

**MAYOR:**

**CITY CLERK:**

  
Dennis Newberry

  
Kathy Vance



**COOPERATIVE AGREEMENT  
FOR K-9 BASIC TRAINING SERVICES**

THIS AGREEMENT dated the 5<sup>th</sup> day of September, 2023, is entered into by and between Boone County, Missouri (County), by and through the Boone County Sheriff's Office (BCSO), and the City of Lake Ozark Police Department (Agency):

**WHEREAS**, BCSO can provide K-9 basic training through its certified K-9 training staff; and

**WHEREAS**, BCSO can assist Agency in selecting a canine for purchase from an approved vendor to receive the training; and

**WHEREAS**, Agency desires to procure a canine to receive training from a vendor approved by County and train one of Agency's officers as that canine's handler through the BCSO's K-9 basic training program; and

**WHEREAS**, County and Agency have the authority to cooperate with each other for the purposes of this Agreement pursuant to RSMo §70.220;

**NOW, THEREFORE**, it is agreed by and between the parties as follows:

1. **ASSISTANCE WITH PROCUREMENT OF CANINE.** County's K-9 trainer will provide advice on the selection of an appropriate canine from a vendor approved by County. The approved vendor will provide a minimum of a 6-month trainability guarantee and a 1-year health guarantee on a purchased canine that will run to the benefit of Agency. County will provide Agency with information about approved vendors.
2. **TRAINING.** BCSO agrees to provide Agency's K-9 handler and canine basic training by and through BCSO's certified staff. Training areas will include obedience, tracking, area search, article search, building search, K-9 aggression control, scenario-based training, and narcotics detection with respect to cocaine, heroin, and methamphetamines. The training shall consist of not less than forty (40) sessions, with each session consisting of approximately one, 8-hour day. The training will be conducted over a period of eight (8) weeks, Monday – Friday, in regularly-scheduled sessions during that 8-week period. Agency will receive a certificate documenting successful completion of the BCSO's program if the K-9 team meets the standards and requirements of the Missouri Police Canine Association at the conclusion of the training contemplated herein.
3. **EMPLOYED STATUS OF K-9 HANDLER.** Agency agrees that the training contemplated herein is within the scope and course of its handler's employment and Agency will be responsible for all appropriate compensation and the provision of Worker's Compensation coverage to Agency's employee. Agency's handler will execute a Waiver & Release as set out in the attached Exhibit "A" prior to being permitted to participate in the training.
4. **CONTRACT PRICE AND PAYMENT.** Agency shall pay County a total sum of Four Thousand Dollars (\$4,000.00) for the training contemplated herein, calculated at a rate of \$100.00/session. Agency may pay the full amount upon execution of this contract or, at Agency's option, Agency shall pay one-half, or \$2,000.00, upon execution of this contract and the remaining one-half, or \$2,000.00, after twenty (20) sessions have been completed.
5. **TERM AND TERMINATION.** The Agreement contemplates training sessions to commence



on or about the 23<sup>rd</sup> day of October, 2023, and sessions will proceed consecutively, Monday – Friday, for a period of eight (8) weeks as scheduled by County. Either party may terminate this Agreement at any time by providing the other written notice of their intent to terminate. Upon termination for convenience by either party, the parties will reconcile the payments paid and/or due based on the number of sessions attended at the rate of \$100.00 per session (with each session being approximately one, 8-hour day).

6. **MODIFICATION AND WAIVER.** No modification or waiver of any provision of this Agreement nor consent to any departure therefrom, shall in any event be effective, unless the same shall be in writing and signed by County and Agency and then such modification, waiver or consent shall be effective only in the specific instance and for the specific purpose for which mutually agreed.
7. **FUTURE COOPERATION.** The parties agree to fully cooperate with each other to give full force and effect to the terms and intent of this Agreement.
8. **ENTIRE AGREEMENT.** The parties state that this document contains the entire agreement between the parties, and there are no other oral, written, express or implied promises, agreements, representations or inducements not specified herein.
9. **AUTHORITY.** The signatories to this Agreement warrant and certify that they have obtained the necessary authority, by resolution or otherwise, to execute this Agreement on behalf of the named party for whom they are signing.

SO AGREED.

AGENCY: Lake Ozark Police

By: [Signature], Chief

Printed Name: Jeff Christiansen

Dated: 8/22/23

ATTEST: [Signature]  
Vance  
City Clerk



BOONE COUNTY, MISSOURI

By: [Signature]

Kip Hendrick, Presiding Commissioner

Dated: 9.5.2023

ATTEST: [Signature]

Brianna L. Lennon, County Clerk

APPROVED – BCSO:

[Signature]  
Dwayne Carey, Sheriff

APPROVED AS TO FORM:

[Signature]  
Dykhouse, Boone County Counselor

ACKNOWLEDGED FOR BUDGETING & AUDITING PURPOSES:

[Signature]  
County Auditor

Exhibit "A"  
**INFORMED CONSENT WAIVER AND RELEASE**

ASSUMPTION OF RISKS: I acknowledge that participation in the BCSO Basic Dual Purpose K-9 Training Class [hereinafter the "Program"] involves physical activities which, by their very nature, carry certain inherent risks that cannot be eliminated regardless of the care taken to avoid injuries. These physical activities involve strenuous exertions of strength using various muscle groups and also involve quick movements using speed and change of direction, all of which could result in injury. These risks range from minor bruises and scratches to more severe injuries, including the risk of heart attacks or other catastrophic injuries. I understand and appreciate that these physical activities carry certain inherent risks and I hereby assert that my participation is voluntary and that I knowingly assume all such risks.

WAIVER AND RELEASE: In consideration of accepting my entry into this Program, I hereby, for myself, my heirs, executors, administrators, or anyone else who might claim on my behalf, covenant not to sue, and waive, release and discharge the Boone County Sheriff's Office, Boone County, Missouri, and/or its employees and agents engaged by them for any purpose relating to the Program that I have been permitted to participate in. This release and waiver extends to all claims of every kind of nature, whatsoever, foreseen or unforeseen, known or unknown.

INDEMNIFICATION AND HOLD HARMLESS: I also agree to indemnify and hold harmless the Boone County Sheriff's Department, Boone County, Missouri, and/or its employees and agents all from any and all claims, actions, suits, procedures, costs, expenses, damages, and liabilities, including attorney's fees, that result from my participation in or involvement with the Program.

Waivers and Releases for minors are accepted only with a parent/guardian signature.

Signature of Participant/Date

Caleb Harvey 8/22/23

Printed Name of Participant

Caleb Harvey

# CERTIFIED COPY OF ORDER

STATE OF MISSOURI }  
County of Boone } ea.

September Session of the July Adjourned

Term. 20 23

In the County Commission of said county, on the 5th day of September 20 23

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

Now on this day, the County Commission of the County of Boone does hereby approve the Budget Amendment for Department 1228 for the CCW/Sex Offender Livescan Machine.

Done this 5<sup>th</sup> day of September 2023.

ATTEST:

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

Kip Kendrick  
Kip Kendrick  
Presiding Commissioner

Justin Aldred  
Justin Aldred  
District I Commissioner

Janet M. Thompson  
Janet M. Thompson  
District II Commissioner



## Leasa Quick

---

**From:** Gary German  
**Sent:** Thursday, August 10, 2023 2:34 PM  
**To:** Leasa Quick; Liz Palazzolo  
**Subject:** Livescan BCSO Lobby  
**Attachments:** SECC-14623081013320.pdf

Take 2--

Leasa and Liz,

I highlighted what we will need for the lobby livescan machine. We do not have enough \$\$ budgeted for this. The information I was sent in March was different and only listed applicant machines. My fault for not catching it back then.

What is our next step? Did MO get the contract finalized?

Gary

---

**From:** ECC-146@boonecountymo.org <ECC-146@boonecountymo.org>  
**Sent:** Thursday, August 10, 2023 2:32 PM  
**To:** Gary German <GGerman@boonecountymo.org>  
**Subject:** Message from ECC-146

Year	<u>2023</u>	Original Appropriation	_____
Dept	<u>1228 GF SHERIFF/DETENTION ADMIN</u>	Revisions	<u>7,915.00</u>
Acct	<u>92301 REPLC COMPUTER HDWR</u>	Original + Revisions	<u>7,915.00</u>
Fund	<u>100 GENERAL FUND</u>	Expenditures	_____
		Encumbrances	_____
Class/Account	<u>A ACCOUNT</u>	Actual To Date	_____
Account Type	<u>E EXPENSE</u>	Remaining Balance	<u>7,915.00</u>
Normal Balance	<u>D DEBIT</u>	Shadow Balance	<u>7,915.00</u>

Expenditures by Period

January	_____	July	_____
February	_____	August	_____
March	_____	September	_____
April	_____	October	_____
May	_____	November	_____
June	_____	December	_____

F2=Key Scr    F3=Exit    F5=Ledger Transactions    F7=Transactions



5515 East La Palma Avenue  
Suite 100  
Anaheim, CA 92807

August 10, 2023

Liz Palazzolo – Senior Buyer  
Boone County Missouri Purchasing  
613 E. Ash Street  
Columbia, MO 65201

Tel: 573-886-4392

Email: [lpalazzolo@boonecountymissouri.org](mailto:lpalazzolo@boonecountymissouri.org)

Reference No. IDMO-L020123-01C

IDEMIA is pleased to provide Boone County Sheriff's Office with the following offer for IDEMIA's LiveScan Booking and Applicant Workstation(s) as described in the State of Missouri Contract #CT211968001 executed between the State of Missouri Division of Purchasing and Materials Management and IDEMIA.

**IDEMIA's fully integrated LiveScan solution provides Boone County Sheriff's Office the following features and benefits:**

- ◆ Single-source vendor for all components of the LiveScan solution, including the AFIS interface
- ◆ 2-Finger FAST ID to Missouri State Highway Patrol (MSHP) AFIS
- ◆ Digital image capture of upper, lower and writer's palms, slaps and rolls
- ◆ Fingerprinting and mugshot capture seamlessly integrated into the same interface (option)
- ◆ Full compliance with MSHP, FBI IAFIS/NGI EBTS and ANSI/NIST image standards
- ◆ Automatic fingerprint sequencing and duplicate print checking before scanning is completed, ensuring data integrity
- ◆ Quick check, review, and edit can be performed on each print
- ◆ Mug Photo Capture available (option)
- ◆ All LiveScan Systems include on-site installation, training, and a 1 year on-site warranty



Tenprint/Palm Capture units shown above

$$\begin{array}{r}
 \$17,938 \\
 - 7,915 \\
 \hline
 \$10,023
 \end{array}$$
 - BA from 3-20-23

Pricing is included for both Tenprint capture and Tenprint/Palmprint capture in the various options available.

## Palms and Rolled Fingerprints - Table 1 – Table 2

### Desktop - Palms and Rolled Fingerprints

Table 1. Pricing / Maintenance

Product Number	Product Name and Description	Unit Price
LSMO-DCM53E-00	<b>IDEMIA LiveScan System Desktop Booking Workstation, Palms and Rolled Fingerprints including:</b> <ul style="list-style-type: none"> <li>• IDEMIA LiveScan System Software</li> <li>• FBI Appendix F Certified Tenprint/Palm 500PPI Scanner</li> <li>• Computer, monitor, keyboard</li> <li>• Foot pedal for hands free advancement</li> <li>• Standard Missouri Workflows and Profiles</li> <li>• 2-Finger FAST ID</li> <li>• Installation / On-site Training</li> <li>• <b>Warranty: 1 Year On-site Advantage Solution warranty, 9X5, Next day on-site response and parts replacement</b></li> <li>• Freight</li> </ul>	<b>\$10,573</b>
	<i>Optional Annual Maintenance: (to start after 1<sup>st</sup> Year Warranty)</i> <b>1 Year On-site Advantage Solution, 9X5, Next day on-site response and parts replacement</b>	<b>\$2,989</b>
	<i>Optional Annual Maintenance: (to start after 1<sup>st</sup> Year Warranty)</i> <b>1 Year On-site Advantage Solution, 24X7, Next day on-site response and parts replacement</b>	<b>\$3,783</b>

### Portable - Palms and Rolled Fingerprints

Table 2. Pricing / Maintenance

Product Number	Product Name and Description	Unit Price
LSMO-T00005E-00	<b>IDEMIA LiveScan System Portable Booking Workstation, Palms and Rolled Fingerprints including:</b> <ul style="list-style-type: none"> <li>• IDEMIA LiveScan System Software</li> <li>• FBI Appendix F Certified Tenprint/Palm 500PPI Scanner</li> <li>• Laptop Computer</li> <li>• Carrying Case</li> <li>• Foot pedal for hands free advancement</li> <li>• Standard Missouri Workflows and Profiles</li> <li>• 2-Finger FAST ID</li> <li>• Installation / On-site Training</li> <li>• <b>Warranty: 1 Year On-site Advantage Solution warranty, 9X5, Next day on-site response and parts replacement</b></li> <li>• Freight</li> </ul>	<b>\$17,315</b>
	<i>Optional Annual Maintenance: (to start after 1<sup>st</sup> Year Warranty)</i> <b>1 Year On-site Advantage Solution, 9X5, Next day on-site response and parts replacement</b>	<b>\$2,984</b>
	<i>Optional Annual Maintenance: (to start after 1<sup>st</sup> Year Warranty)</i> <b>1 Year On-site Advantage Solution, 24X7, Next day on-site response and parts replacement</b>	<b>\$3,718</b>



### Rolled Fingerprints - Table 3 -- Table 4

Desktop - Rolled Fingerprints

Table 3. Pricing / Maintenance

Product Number	Product Name and Description	Unit Price
LSMO-00M41E-01	<b>IDEMIA LiveScan System Desktop Applicant only Workstation, Rolled Fingerprints including:</b> <ul style="list-style-type: none"> <li>• IDEMIA LiveScan System Software</li> <li>• FBI Appendix F Certified Tenprint 500PPI Scanner</li> <li>• Computer, monitor, keyboard</li> <li>• Standard Missouri Workflows and Profiles</li> <li>• 2-Finger FAST ID</li> <li>• Installation / On-site Training</li> <li>• <b>Warranty:</b> 1 Year On-site <i>Advantage</i> Solution warranty, 9X5, Next day on-site response and parts replacement</li> <li>• Freight</li> </ul>	<b>\$6,590</b>
	<i>Optional Annual Maintenance: (to start after 1<sup>st</sup> Year Warranty)</i> 1 Year On-site <i>Advantage</i> Solution, 9X5, Next day on-site response and parts replacement	<b>\$2,415</b>
	<i>Optional Annual Maintenance: (to start after 1<sup>st</sup> Year Warranty)</i> 1 Year On-site <i>Advantage</i> Solution, 24X7, Next day on-site response and parts replacement	<b>\$3,140</b>

Portable - Rolled Fingerprints

Table 4. Pricing / Maintenance

Product Number	Product Name and Description	Unit Price
LSMO-T0M41E-01	<b>IDEMIA LiveScan System Portable Applicant only Workstation, Rolled Fingerprints including:</b> <ul style="list-style-type: none"> <li>• IDEMIA LiveScan System Software</li> <li>• FBI Appendix F Certified Tenprint 500PPI Scanner</li> <li>• Laptop Computer</li> <li>• Carrying Case</li> <li>• Standard Missouri Workflows and Profiles</li> <li>• 2-Finger FAST ID</li> <li>• Installation / On-site Training</li> <li>• <b>Warranty:</b> 1 Year On-site <i>Advantage</i> Solution warranty, 9X5, Next day on-site response and parts replacement</li> <li>• Freight</li> </ul>	<b>\$8,450</b>
	<i>Optional Annual Maintenance: (to start after 1<sup>st</sup> Year Warranty)</i> 1 Year On-site <i>Advantage</i> Solution, 9X5, Next day on-site response and parts replacement	<b>\$2,566</b>
	<i>Optional Annual Maintenance: (to start after 1<sup>st</sup> Year Warranty)</i> 1 Year On-site <i>Advantage</i> Solution, 24X7, Next day on-site response and parts replacement	<b>\$3,335</b>

Current shipping is **5** days after receipt by IDEMIA of Boone County Sheriff's Office completed pre-installation documentation, or as otherwise scheduled.

### Options and Pricing

IDEMIA equipment and service options and pricing described in Table 5. Options

Product Code	Product Name and Description	Unit Price	Annual Maintenance	
			9X5	24X7
ESLO-PMLDHT-00	Printer Black & White Duplex Tenprint card printer 2 Tray (finger & palm)	\$1,365	\$208	\$255
<del>ESLO-ADMFLC-00</del>	<del>Desktop/Portable -- Mug Photo Capture (Type 10) including Camera, Software</del>	<del>\$1,364</del>	<del>\$208</del>	<del>\$255</del>
RMS-Interface	Local RMS Interface Connection	\$2,000	\$300	\$110

The Annual Maintenance prices shown above reflect Year 2 only.

### Customer Responsibilities

Boone County Sheriff's Office is responsible for the following:

- ◆ Providing necessary facility resources required for equipment installation and operation including access, space, environmental control, electrical power and networking.
- ◆ Providing a technical point of contact for IDEMIA who will be the primary person responsible for providing and/or coordinating obtainment of site installation pre-requisite information such as network information, IP addresses, power information, etc.
- ◆ To obtain and maintain the required transmission lines and hardware for remote communications to and from the necessary agencies.
- ◆ Installation, testing and troubleshooting any network communication connections, lines and/ or Boone County Sheriff's Office network devices.
- ◆ Obtaining all required authorizations for connecting to the Missouri State AFIS / Missouri State Highway Patrol (MSHP).
- ◆ Completion and return of IDEMIA pre-install documentation to IDEMIA Program Team.
- ◆ Printer supplies such as ink and toner cartridges (consumables) are Boone County Sheriff's Office responsibility. IDEMIA does not offer or resell these items.

NOTE: Boone County Sheriff's Office is encouraged to contact Kerry Creach, Email [Kerry.Creach@mshp.dps.mo.gov](mailto:Kerry.Creach@mshp.dps.mo.gov) or Andrew Benner, Email [andrew.benner@mshp.dps.mo.gov](mailto:andrew.benner@mshp.dps.mo.gov) CJIS Program / Biometrics, State AFIS Administration, Criminal Justice Information Services (CJIS), Missouri State Highway Patrol, for establishing connectivity to MSHP prior to purchase.

### Assumptions

In developing this price quote, IDEMIA has made the following assumptions:

- ◆ With the exception of the State AFIS, there are no external interfaces to support which includes but is not limited to records management system, booking system, mugshot system, etc.
- ◆ An inter-agency agreement between MSHP and Boone County Sheriff's Office will be in place.
- ◆ Boone County Sheriff's Office will provide all necessary communication to connect to MSHP. This includes, but is not limited to hubs, routers, modems, etc.
- ◆ LiveScan System shipment and on-site installation services will be scheduled after network connectivity has been established and verified and IDEMIA's Program team has received the Boone County Sheriff's Office completed pre-install documentation.

### Terms

The following items are not included in the scope of IDEMIA's pricing and will be quoted based on current service rates in effect at the time of request: (a) requests for IDEMIA assistance / completion of any agency or governing body required security documentation, surveys or questionnaires; (b) requests for IDEMIA support and potential resolution of issues resulting from agency vulnerability assessments, penetration testing and/or security audits.

Additional engineering effort by IDEMIA beyond the scope of the standard product will be quoted based on current service rates in effect at the time of the change, plus any related travel or administrative expenses. Assistance with training and questions on Boone County Sheriff's Office database or any programming, scripting, or review of programs beyond work quoted above are excluded from this offer.

Prices are exclusive of any and all state, or local taxes, or other fees or levies. Customer payments are due to IDEMIA within 20 days after the date of the invoice.

Product purchase will be governed by **State of Missouri Contract #CT211966001**. No subsequent purchase order can override such terms. Nothing additional shall be binding upon IDEMIA unless a subsequent agreement is signed by both parties.

Firm delivery schedules will be provided upon receipt of a purchase order and IDEMIA receipt of completed pre-install documentation. Specifics for installation are scheduled by mutual agreement and any additional functionality or interface requirements can be evaluated for pricing.

IDEMIA reserves the right to substitute hardware of equal value with equal or better capability, based upon market availability. If, however, such equipment is unavailable, IDEMIA will make its best effort to provide a suitable replacement.

Purchase orders should reference **State of Missouri Contract #CT211966001 Amendment 3**.  
Purchase orders should be sent to IDEMIA by electronic mail or U.S. postal mail to:

**IDEMIA**  
14 Crosby Dr., 2<sup>nd</sup> Floor  
Bedford, MA 01730  
Email: [anamtkorders@us.idemia.com](mailto:anamtkorders@us.idemia.com) | [anamtkorders@us.idemia.com](mailto:anamtkorders@us.idemia.com)

Please direct all questions and order correspondence to:

Noemi Islas  
IDEMIA Inside Sales  
Email: [noemi.islas@us.idemia.com](mailto:noemi.islas@us.idemia.com) | Tel: (657) 652-4447

**Pricing valid through: September 30, 2023**

Sincerely,



Casey Mayfield  
Vice President Justice and Public Safety - IDEMIA Identity & Security USA LLC

## Advantage Solution Support

The following table provides a summary of the maintenance services and support available during warranty and following warranty expiration. Initial warranty period is 1 year from the date of installation.

Support Features	Warranty	Post Warranty
<b>Software Support 9X5*</b>	<b>Included in Warranty</b>	<b>Available for purchase</b>
Unlimited Telephone Technical Support	√	√
2 Hour Telephone Response Time	√	√
Remote Dial-In Analysis	√	√
Software Standard Releases	√	√
Software Supplemental Releases	√	√
Automatic Call Escalation	√	√
Software Customer Alert Bulletins	√	√
<b>Hardware Support – On-site 9X5*</b>	<b>Included in Warranty</b>	<b>Available for purchase</b>
On-Site Response	24-hours	√
On-Site Corrective Maintenance	√	√
On-Site Parts Replacement	√	√
Preventive Maintenance	√	√
Escalation Support	√	√
Hardware Service Reporting	√	√
Hardware Customer Alert Bulletins	√	√
<b>Parts Support</b>	<b>Included in Warranty</b>	<b>Available for purchase</b>
Advanced Exchange Parts Replacement	√	√
Telephone Technical Support for Parts Replacement	√	√
Parts Customer Alert Bulletins	√	√
<b>Software Uplifts</b>		
Hours of Coverage Available up to 24 Hours Per Day, 7 Days/Week	Optional	Optional
<b>Hardware Uplifts</b>		
Hours of Coverage Available up to 24 Hours Per Day, 7 Days/Week	Optional	Optional

\*Customer local time

By signing this signature block below, Boone County Sheriff's Office agrees to the terms and pricing stated in this price quote for the product and services as referenced above. My signature below constitutes the acceptance of this offer and authorizes IDEMIA to ship and provide these product and services:

**Signature Authorization for Order:**

**Signature**

**Name**

**Date**

**Total Purchase Price (including any Options): \$ \_\_\_\_\_**

**PLEASE ENTER TOTAL ORDER AMOUNT ON THE LINE ABOVE**

**PLEASE PROVIDE A COPY OF CURRENT TAX EXEMPTION CERTIFICATE (if applicable).**

**Please provide Billing Address:**

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
Billing Contact name \_\_\_\_\_  
Telephone number (     ) \_\_\_\_\_  
Email \_\_\_\_\_

**Check if Billing Address is same as Shipping Address:**

**Please provide Shipping Address (if different from Billing Address):**

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
Technical Contact name \_\_\_\_\_  
Telephone number (     ) \_\_\_\_\_  
Email \_\_\_\_\_



3910-2023

# CERTIFIED COPY OF ORDER

STATE OF MISSOURI }  
County of Boone } ca.

September Session of the July Adjourned

Term. 20 23

In the County Commission of said county, on the 5th day of September 20 23

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

Now on this day, the County Commission of the County of Boone does hereby approve the Budget Amendment for Department 2501/2502 for a Lenco Armored Vehicle.

Done this 5<sup>th</sup> day of September 2023.

ATTEST:

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

Kip Kendrick  
Kip Kendrick  
Presiding Commissioner

Justin Aldred  
Justin Aldred  
District I Commissioner

Janet M. Thompson  
Janet M. Thompson  
District II Commissioner





## Fund Statement - Sheriff Forfeiture Fund 250 (Nonmajor)

	2022 Actual	2023 Budget	2023 Estimated	2024 Budget
<b>FINANCIAL SOURCES:</b>				
<b>Revenues</b>				
Property Taxes	\$ -	-	-	-
Assessments	-	-	-	-
Sales Taxes	-	-	-	-
Franchise Taxes	-	-	-	-
Licenses and Permits	-	-	-	-
Intergovernmental	-	-	-	-
Charges for Services	-	-	-	-
Fines and Forfeitures	-	-	-	-
Interest	(22,190)	3,120	-	3,120
Hospital Lease	-	-	-	-
Other	-	-	-	-
<b>Total Revenues</b>	<b>(22,190)</b>	<b>3,120</b>	<b>-</b>	<b>3,120</b>
<b>Other Financing Sources</b>				
Transfer In from other funds	-	-	-	-
Proceeds of Long-Term Debt	-	-	-	-
Other (Sale of Capital Assets, Insurance Proceeds, etc)	-	-	-	-
<b>Total Other Financing Sources</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>
<b>Fund Balance Used for Operations</b>	<b>22,190</b>	<b>-</b>	<b>339,646</b>	<b>-</b>
<b>TOTAL FINANCIAL SOURCES</b>	<b>\$ -</b>	<b>3,120</b>	<b>339,646</b>	<b>3,120</b>
<b>FINANCIAL USES:</b>				
<b>Expenditures</b>				
Personal Services	\$ -	-	-	-
Materials & Supplies	-	-	-	-
Dues Travel & Training	-	-	-	-
Utilities	-	-	-	-
Vehicle Expense	-	-	-	-
Equip & Bldg Maintenance	-	-	-	-
Contractual Services	-	-	-	-
Debt Service (Principal and Interest)	-	-	-	-
Emergency	-	-	-	-
Other	-	-	-	-
Fixed Asset Additions	-	-	339,646	-
<b>Total Expenditures</b>	<b>-</b>	<b>-</b>	<b>339,646</b>	<b>-</b>
<b>Other Financing Uses</b>				
Transfer Out to other funds	-	-	-	-
Early Retirement of Long-Term Debt	-	-	-	-
<b>Total Other Financing Uses</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>
<b>TOTAL FINANCIAL USES</b>	<b>\$ -</b>	<b>-</b>	<b>339,646</b>	<b>-</b>
<b>FUND BALANCE:</b>				
<b>FUND BALANCE (GAAP), beginning of year</b>	\$ 364,499	342,309	342,309	2,663
Less encumbrances, beginning of year	-	-	-	-
Add encumbrances, end of year	-	-	-	-
Fund Balance Increase (Decrease) resulting from operations	(22,190)	3,120	(339,646)	3,120
<b>FUND BALANCE (GAAP), end of year</b>	<b>342,309</b>	<b>345,429</b>	<b>2,663</b>	<b>5,783</b>
Less: <b>FUND BALANCE UNAVAILABLE FOR APPROPRIATION</b> , end of year	-	-	-	-
<b>NET FUND BALANCE, end of year</b>	<b>\$ 342,309</b>	<b>345,429</b>	<b>2,663</b>	<b>5,783</b>
Net Fund Balance as a percent of expenditures	#DIV/0!	#DIV/0!	0.78%	#DIV/0!



## BOONE COUNTY SHERIFF'S OFFICE

2121 County Drive Columbia, Missouri 65202-9051  
DWAYNE CAREY, Sheriff Phone (573)875-1111 Fax (573)874-8953

**DATE:** August 11, 2023  
**TO:** Boone County Commission  
**FROM:** Captain Brian Leer  
**RE:** Budget Amendment to Fund Lenco Bearcat

The Boone County Sheriff's Office is wishing to utilize Sheriff's Forfeiture funds to purchase a Lenco Bearcat armored vehicle, which we believe will aid the Boone County Sheriff's Office in responses to high-risk incidents. The Lenco Bearcat is an armored vehicle that can be utilized to protect personnel and rescue victims and/or members of the public as needed during high-risk law enforcement operations. Currently the only armored vehicle in our possession is a military surplus MRAP (Mine Resistant Ambush Protected) vehicle. The MRAP has limited usefulness due to the size and weight. As such, there are bridges that we are unable to cross with the vehicle and it has limited maneuverability. Additionally, the Federal Government has established limitations in place restricting how we may use the MRAP. We believe the Lenco Bearcat is the best solution to meet our armored vehicle needs.

We are requesting the Boone County Commission approve the establishment of an expenditure budget to purchase a Lenco Bearcat armored vehicle in the amount of \$339,646.00. We are asking to establish the budget as shown in the attached budget amendment request, utilizing \$200,000.00 from the US Department of Justice portion of the fund and \$139,646.00 from the US Department of Treasury portion of the fund to establish this budget. These portions of this fund must be tracked separately; however, if approved they will be budgeted with the intention of combining these portions to cover the total cost of purchasing a Lenco Bearcat armored vehicle.

Thank you!



Captain Brian Leer

Year	<u>2023</u>	Opening Balance	<u>370,135.58</u>
Fund	<u>250 SHERIFF FORFEITURE FUND</u>	Actual YTD Credits	<u>                    </u>
Acct	<u>1000 CASH &amp; INVEST IN TREASURY</u>	Actual YTD Debits	<u>2,668.57</u>
Account Type	<u>A ASSET</u>		
Normal Balance	<u>D DEBIT</u>	Current Balance	<u>372,804.15</u>

Period	Debits	Credits	Current Balance
January	<u>456.95</u>	<u>                    </u>	<u>370,592.53</u>
February	<u>490.63</u>	<u>                    </u>	<u>371,083.16</u>
March	<u>433.31</u>	<u>                    </u>	<u>371,516.47</u>
April	<u>232.79</u>	<u>                    </u>	<u>371,749.26</u>
May	<u>586.26</u>	<u>                    </u>	<u>372,335.52</u>
June	<u>468.63</u>	<u>                    </u>	<u>372,804.15</u>
July	<u>                    </u>	<u>                    </u>	<u>372,804.15</u>
August	<u>                    </u>	<u>                    </u>	<u>372,804.15</u>
September	<u>                    </u>	<u>                    </u>	<u>                    </u>
October	<u>                    </u>	<u>                    </u>	<u>                    </u>
November	<u>                    </u>	<u>                    </u>	<u>                    </u>
December	<u>                    </u>	<u>                    </u>	<u>                    </u>
Post Closing	<u>                    </u>	<u>                    </u>	<u>                    </u>

F2=Key Scr F3=Exit F5=Ledger Transactions F7=Transactions



**Jenna Redel**  
**Boone County Treasurer**  
**ACTIVITY STATEMENT**  
**FOR THE MONTH of June 2023**  
**SHERIFF FORFEITURE FUND**  
**US Dept of Justice**

**\$200,000**

BEGINNING CASH BALANCE	\$ 219,117.47
DEPOSITS/REVENUE	\$ -
INVESTMENT INCOME	\$ 275.79
WITHDRAWALS	\$ -
ENDING CASH BALANCE	\$ 219,393.26
Plus Accrued Interest Not Yet Received	\$ 188.14
Ending Account Balance	\$ 219,581.40

**- 200,000**

**\$ 19,581.40**

BOONE COUNTY GOVERNMENT CENTER  
801 EAST WALNUT STREET, ROOM 205  
COLUMBIA, MISSOURI 65201  
(573)886-4365  
Fax (573)886-4369  
TREASURER@BOONECOUNTYMO.ORG  
WWW.SHOWMEBOONE.COM/TREASURER



**Jenna Redel**  
**Boone County Treasurer**  
**ACTIVITY STATEMENT**  
**FOR THE MONTH of June 2023**  
**SHERIFF FORFEITURE FUND**  
**US Dept of Treasury**

*\$139,646.00*

BEGINNING CASH BALANCE	\$ 153,218.05
DEPOSITS/REVENUE	\$
INVESTMENT INCOME	\$ 192.84
WITHDRAWALS	\$
ENDING CASH BALANCE	\$ 153,410.89
Plus Accrued Interest Not Yet Received	\$ 131.56
Ending Account Balance	\$ 153,542.45

*- 139,646*

*\$ 13,896.45*

BOONE COUNTY GOVERNMENT CENTER  
801 EAST WALNUT STREET, ROOM 205  
COLUMBIA, MISSOURI 65201  
(573)886-4365  
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TREASURER@BOONECOUNTYMO.ORG  
WWW.SHOWMEBOONE.COM/TREASURER



Protecting Our Nation's Defenders™

10 Betnr Industrial Drive - Pittsfield, MA 01201

PH: 413-443-7359 - FAX: 413-445-7865

## Quotation 100976

Customer Code: BOLMO

Quotation Date: 08/08/23

Lenco Tax ID #: 04-2719777

Page #: 1 of 2

Bill To
Boone County Sheriff's Office 2121 County Dr. Columbia, MO 65202 USA

Ship To
Boone County Sheriff's Office 2121 County Dr. Columbia, MO 65202 USA

Payment Terms	Shipping Terms	Ship Via
Net 30 Days	FOB: Destination	Common Carrier
Estimated Completion	Lenco Contact	Inspection & Acceptance
12 months ARO (Est.)	Daniel Besemer	At Lenco's facility, Pittsfield, MA

Item:	Product #	Qty	Unit Price	Total
Vehicle configuration	2550			
Lenco BearCat	BCS5003-BASE	1	\$200,704.00	\$200,704.00
Options:				
LED Red & Blue w/ Clear Lenses	LED_RED_BLUE_CLEAR	1		
Lusterless Urban Green	LUSTERLESS_URBAN_GREEN	1		
Diesel Engine, 6.7L Turbo	BCDLEN	1	\$8,859.00	\$8,859.00
BearCat G3 4-Wheel Off-Road Upgrade Pkg w/Run-Flats	BC3WOFFRD	1	\$34,958.00	\$34,958.00
4-Door Configuration	BC4DR	1	\$7,858.00	\$7,858.00
(1) 7" Vertical GunPort Upgrade	BCGP7	8	\$152.00	\$1,216.00
Electric Power Mirrors	BCMIR	1	\$1,508.00	\$1,508.00
360 Camera System	BC360DEG	1	\$4,422.00	\$4,422.00
Radio Prep Package, (1) Max (2)	BCINSRA	1	\$502.00	\$502.00
Radio Prep Package - Driver Side Rear Wall Only, (Max 1)	BCINSRA-RW	1	\$528.00	\$528.00
Rear A/C - Heating Systems: High Capacity Upgrade	BCACUP	1	\$7,182.00	\$7,182.00
Hydraulic Ram Upgrade w/Front Mounted Receiver with Ram Post and Plate	BCHYDRAM	1	\$12,479.00	\$12,479.00
Draco Prep Package	BCDRACOPREP	1	\$1,896.00	\$1,896.00
VSP Style Low Profile & Scene Lighting Pkg	BCVSPL	1	\$4,068.00	\$4,068.00
Roof Mounted Remote Control Spot Light - LED	BCSLLED	2	\$1,404.00	\$2,808.00
High Intensity Driving Lights in Front Bumper	BCHIDL	1	\$1,340.00	\$1,340.00
Fender Intersection Lights	BCFIL	1	\$2,986.00	\$2,986.00
Take Down Light (Bumper Mounted)	BCTDL	1	\$1,853.00	\$1,853.00
AC-DC Power Inverter w/ Auto Eject	BCINV2000	1	\$6,387.00	\$6,387.00
Police Cupola w/Glass & Barn Doors	BCPCUPOIA	1	\$26,321.00	\$26,321.00
Rear Tow Hitch Receiver w/ Winch Power	BCRTOWRWP	1	\$1,257.00	\$1,257.00
Armored Oil Pan Guard	BCAOPG	1	\$1,936.00	\$1,936.00
Front Skid Pan	BCFSP	1	\$1,713.00	\$1,713.00
DEF Tank Guard - Diesel Engine Only	BCDEFG	1	\$936.00	\$936.00
Intercom System Inside to Outside	BCINT	1	\$2,871.00	\$2,871.00
Bedrock Paint	BCPJ	1	\$3,058.00	\$3,058.00
<b>Configuration Subtotal:</b>				<b>\$339,646.00</b>
Lenco BearCat	NEWCONFIG	1	\$339,646.00	\$339,646.00
<b>Net Total</b>				<b>\$339,646.00</b>



Protecting Our Nation's Defenders™

10 Betnr Industrial Drive - Plttsfield, MA 01201  
PH: 413-443-7359 - FAX: 413-445-7865

### Quotation 100976

Customer Code: BOLMO

Quotation Date: 08/08/23

Lenco Tax ID#: 04-2719777

Page #: 2 of 2

**Notes:**

State of Iowa - Specialty Vehicles: Armored Rescue Vehicle

Contract Number: RFB0221005001 / 21052B

Current Option Period End Date: August 31, 2023

BCINSRA-RW - Non Contract Item

BCPCUPOLA - Equivalent to BCNCUPOLA

BCHACUP - Price shown reflects new combined pricing which includes both BCHAC and BCHACUP as it was previously listed on Iowa contract documents. (BCHAC - \$2,972 and BCHACUP - \$4,210)

BCRTOWRWP - Iowa contract shows an incorrect price of \$1,256.25. A price adjustment can be arranged, if needed.

**WARNING: Information Subject to Export Control Laws**

The written approval of the Directorate of US Defense Trade Controls and Lenco Industries, Inc. must be obtained before reselling, transferring, transshipping or disposing of a defense article to any end user, end use or destination other than as stated on this Lenco quote or the shipper's export declaration in cases where an exemption is claimed under this subchapter (ITAR 123.9(A)).

Acceptance of this quotation or entering into a purchase agreement with Lenco, the purchaser agrees to Lenco's full Terms and Conditions of Sale, available upon request. This quote will be valid for 90 days.

**ACCEPTANCE OF PROPOSAL**

Authorized  
Signature: \_\_\_\_\_

Please sign and return

Authorized  
Signature: \_\_\_\_\_

*Daniel Besemer*  
Daniel Besemer

Thank you

Item:	Product #	Qty.	Unit Price	Extension
<b>Paint:</b>				
Bedrock Paint	BCPD	1	\$ 3,058.00	\$ 3,058.00
Whole Vehicle Bedrock Paint	BCPJWV	1	\$ 6,116.00	\$ 6,116.00
Bedrock Paint; Front Bumper	BCPJFB	1	\$ 1,055.00	\$ 1,055.00
Extreme Heat Reducing Insulation & Sound Reduction Pkg	BCEXHT	1	\$ 3,044.00	\$ 3,044.00
High Gloss Exterior Paint	BCIIGP	1	\$ 8,700.00	\$ 8,700.00

**Engine & Chassis Options:**

Diesel Engine, 6.7L Turbo	BCDLEN	1	\$ 8,859.00	\$ 8,859.00
In-Line Diesel Fuel Heater	BCDFH	1	\$ 1,500.00	\$ 1,500.00
DEF Tank Guard; Diesel Engine Only	BCDEFG	1	\$ 936.00	\$ 936.00
Front Mud Flaps	BCFMF	1	\$ 566.00	\$ 566.00
Desert Climate Cooling Package	BCDCCP	1	\$ 1,800.00	\$ 1,800.00
BearCat Export Conversion	BCEXCON	1	\$ 4,025.00	\$ 4,025.00
Large Capacity Fuel Cell	BC68GFT	1	\$ 4,612.00	\$ 4,612.00
Extreme Use Off-Road Suspension Upgrade	BCORS	1	\$ 6,612.00	\$ 6,612.00
Water Fording Upgrade	BCWFU	1	\$ 19,992.00	\$ 19,992.00
Severe Duty Axle Upgrade	BCSDAU	1	\$ 29,000.00	\$ 29,000.00
Proactive Suspension System	BCPSS	1	\$ 9,240.00	\$ 9,240.00
Exhaust Tail Pipe Cover	BCTPC	1	\$ 250.00	\$ 250.00

**BearCat Variants:**

BearCat G3 4-Wheel Off-Road Upgrade Pkg w/ Run-Flats	BC3WOFFRD	1	\$ 34,958.00	\$ 34,958.00
BearCat G3M - 4-Wheel Off-Road Severe Duty Pkg w/ Run-Flats; CTIS	BC3SDAUL	1	\$ 75,400.00	\$ 75,400.00
BearCat G3M - 4-Wheel Off-Road Severe Duty Pkg w/ Run-Flats; CTIS	BC3SDAU	1	\$ 77,740.00	\$ 77,740.00
CTIS Management Kit (Axle upgrade required)	BCCTISMK	1	\$ 21,560.00	\$ 21,560.00
BearCat G4 Off-Road Pkg w/RunFlats/4-Dr/Lg Tinted Windows/2-Rear	BCG4	1	\$ 47,665.00	\$ 47,665.00
BearCat G5 4-Wheel Mine Resistant Package	BCG5	1	\$ 77,881.00	\$ 77,881.00
BearCat X2 Utility Package	BCX2	1	\$ 8,700.00	\$ 8,700.00
BearCat X3 Utility Package	BCX3	1	\$ 34,958.00	\$ 34,958.00
BearCat X3M Utility Package - 4-Wheel Off-Road Severe Duty Pkg w/	BCX3SDAUL	1	\$ 72,800.00	\$ 72,800.00
BearCat X3M Utility Package - 4-Wheel Off-Road Severe Duty Pkg w/	BCX3SDAU	1	\$ 75,140.00	\$ 75,140.00
BearCat X-Series Fire Response Package	BCX3MON	1	\$ 93,900.00	\$ 93,900.00
BearCat X-Series Fire Response Package (Bumper Mounted Monitor)	BCX3MONBMM	1	\$ 83,300.00	\$ 83,300.00
X-Series Utility Bed Canopy	BCX3CC	1	\$ 11,300.00	\$ 11,300.00
X-Series Utility Bed Flip-Up Bench Seating	BCX3FUBB	1	\$ 10,246.00	\$ 10,246.00
BearCat VIP, SUV Pkg	BCVIPSUV	1	\$ 53,975.00	\$ 53,975.00
BearCat Tactical SUV Pkg	BCTACSUV	1	\$ 60,631.00	\$ 60,631.00
BearCat MedEvac (4) Litter Pkg	BCMEDEVAC	1	\$ 19,827.00	\$ 19,827.00
BearCat MedEvac LASD TEMS Version	BCMEDLASD	1	\$ 25,827.00	\$ 25,827.00
Advanced Rescue MedEvac Package	BCRMP	1	\$ 79,995.00	\$ 79,995.00
Advanced Rescue MedEvac Package w/ Rotating Roof Hatch	BCRMPRRH	1	\$ 79,995.00	\$ 79,995.00
BearCat EOD Pkg/Robot Deployment Door/Truck Extension/Raised Ro	BCEOD	1	\$ 28,000.00	\$ 28,000.00
Integration of Cust Supplied Fiber Optic Spool/Ground Mt & Roof Lea	BCCUSFIBR	1	\$ 3,500.00	\$ 3,500.00
Work Counter/Control Station w/Swivel Seat/Lumbar Support	BCWKCT	1	\$ 5,000.00	\$ 5,000.00
Front Mt Hydraulic Robot Lift/Delivery Platform/Winch	BCFMHYRO	1	\$ 7,500.00	\$ 7,500.00
Telescoping Mast System; 10' w/Compressor & Proximity Switch	BCTELMAS	1	\$ 20,151.00	\$ 20,151.00
BearCat Hi Rail System	BCHRS	1	\$ 41,923.00	\$ 41,923.00
BearCat Hi Rail System Accessory Kit	BCHRAK	1	\$ 6,654.00	\$ 6,654.00

**Tire/Wheel Options:**

Run-Flat Tires: Set of (6)	BCRF6	1	\$ 6,030.00	\$ 6,030.00
19.5" Spare Tire with Run Flat	BCSTRF	1	\$ 2,308.00	\$ 2,308.00
19.5 Spare Tire, No Run-Flat	BC195ST	1	\$ 1,483.00	\$ 1,483.00
22.5" Tire and Wheel Upgrade	BCTWU	1	\$ 8,800.00	\$ 8,800.00
Run-Flat Tires for 22.5" Tire and Wheel Upgrade	BCRF225	1	\$ 7,083.00	\$ 7,083.00
22.5" Spare Tire with Run Flat	BCSTRF2	1	\$ 2,893.00	\$ 2,893.00
22.5 Spare Tire, No Run-Flat	BC225ST	1	\$ 1,842.00	\$ 1,842.00
G3/G4 Spare Tire with Run-Flat	BC40STRF	1	\$ 4,954.00	\$ 4,954.00
Semi-Automatic Tire Inflation System (STIS)	BCSTIS	1	\$ 8,600.00	\$ 8,600.00



Tire Shields (Qty 4)	BCTIRESHIELD	1	\$	3,048.00	\$	3,048.00
Exterior Spare Tire Mount (Tire Assembly Sold Separately)	BCEXTSTM	1	\$	1,086.00	\$	1,086.00

**Lighting Options:**

Light Guard Package	BCLG	1	\$	50.00	\$	50.00
Light Bar Prep Package	BCILB	1	\$	502.00	\$	502.00
Whelen Liberty LED Light Bar (Installed)	BCLED	1	\$	3,216.00	\$	3,216.00
Front Bumper Intersection Lights	BCBIL	1	\$	1,800.00	\$	1,800.00
Fender Intersection Lights	BCFIL	1	\$	2,986.00	\$	2,986.00
Integrated LED Visor Lights (8): 4 Red / 4 Blue	BCIVL	1	\$	2,034.00	\$	2,034.00
Integrated Side Area Lights: (8): 2 Red / 2 Blue / 4 White	BCSAL	1	\$	2,034.00	\$	2,034.00
VSP Style Low Profile & Scene Lighting Pkg	BCVSP	1	\$	4,068.00	\$	4,068.00
Go Light Protective Cage	BCGLC	1	\$	300.00	\$	300.00
Roof Mounted Remote Control Spot Light (1) - Max (4)	BCRCSL	1	\$	1,004.00	\$	1,004.00
Roof Mounted Remote Control Spot Light LED	BCSLED	1	\$	1,404.00	\$	1,404.00
High Intensity Driving Lights in Front Bumper	BCHIDL	1	\$	1,340.00	\$	1,340.00
Take Down Light (Bumper Mounted)	BCTDL	1	\$	1,853.00	\$	1,853.00
Take Down Light w/IR (Bumper Mounted)	BCTDL-IR	1	\$	2,577.00	\$	2,577.00
Roof Mounted Alley Lighting - (1) Max (4)	BCRMAL	1	\$	2,213.00	\$	2,213.00
Golight IR Snap On Lense & IR Bezel Kit	I9-15007M	1	\$	286.89	\$	286.89
IR Remote Control Spot Light	BCSLIR	1	\$	1,805.00	\$	1,805.00
European Light Package	BCELP	1	\$	809.45	\$	809.45
EU Compliance Package	BCEUCP	1	\$	10,680.00	\$	10,680.00

**Camera Options:**

4-Channel DVR 160 GR	BC4CHDVR	1	\$	1,750.00	\$	1,750.00
17" Flat Panel LCD Monitor	BC17FPLCD	1	\$	1,750.00	\$	1,750.00
Back up Camera System with Monitor	BCBU	1	\$	2,297.00	\$	2,297.00
Forward Facing Camera	BCFFC	1	\$	2,297.00	\$	2,297.00
360 Camera System	BC360DEG	1	\$	4,422.00	\$	4,422.00
Color Camera w/Controller, Front and Rear Monitors	BCPANTILT	1	\$	20,350.00	\$	20,350.00
Color & Infrared Camera w/ Controller, Front and Rear Monitors	BCPANTILTIR	1	\$	27,246.00	\$	27,246.00
Color & Thermal Camera w/Controller, Front and Rear Monitors	BCTI	1	\$	31,585.00	\$	31,585.00

**Interior Options:**

2 Rear Area Electric Fans	BC2RELFAN	1	\$	300.00	\$	300.00
Interior Rubber Mats (In Place of Carpets)	BCRMF	1	\$	455.00	\$	455.00
Rear A/C - Heating System: High Capacity	BCHAC	1	\$	2,972.00	\$	2,972.00
Rear A/C - Heating System: High Capacity Upgrade	BCHACUP	1	\$	7,182.00	\$	7,182.00
Rear A/C - Heating System: Engine Mounted	BCEMAC	1	\$	10,500.00	\$	10,500.00
In-Skins	BCINSKINS	1	\$	5,910.00	\$	5,910.00
Advanced BMI MRAP Gunner's Seat	BCBMIGS	1	\$	1,484.00	\$	1,484.00
Wall Mounted Flip Down Seat	BCFLIPSEAT	1	\$	480.00	\$	480.00
MedEvac Benches w/ stretcher restraints	BCMEDBENCH	1	\$	3,264.00	\$	3,264.00
2-Mid Back Seats in Rear (Bench Seats Shortened)	BCMBS	1	\$	1,579.00	\$	1,579.00
SCBA Seat w/ Base	BCSCBASEAT	1	\$	1,854.00	\$	1,854.00
SCBA Flip up Seat	BCSCBAFSEAT	1	\$	2,140.00	\$	2,140.00
Blast Seat (Each)	BCBSEATS	1	\$	3,015.00	\$	3,015.00
Seat Belts Rear Bench Seats	BCSBLT	1	\$	1,244.00	\$	1,244.00
Fold-Up Steel Work Table	BCFSWT	1	\$	1,315.00	\$	1,315.00
Trauma Lighting (6) Overhead Dome White w/Hi/Low/Red	BCLTMED	1	\$	2,498.00	\$	2,498.00
5 Pack Mag Kit	BCMAGKIT	1	\$	975.00	\$	975.00
Large Escape Hatch w/ Ladder	BCEHWL	1	\$	1,419.00	\$	1,419.00
Emergency Escape Hatch	BCBEH	1	\$	3,422.00	\$	3,422.00
Center Mount Large Escape Hatch, Hinged Driver Side	BCCLPH	1	\$	3,422.00	\$	3,422.00
Protective Window Covers	BCWC	1	\$	1,613.00	\$	1,613.00
Explosive Gas Detection Pkg	BCDRG	1	\$	5,025.00	\$	5,025.00
Radiation Detection Package	BCRAD	1	\$	5,025.00	\$	5,025.00
AC-DC Power Inverter w/Auto Eject	BCINVT	1	\$	6,387.00	\$	6,387.00
Power Inverter - Export	BCPIEX	1	\$	2,985.00	\$	2,985.00
On Board SCBA System/Includes Bottled Air & Inside Attach Points	BCSBA	1	\$	25,699.00	\$	25,699.00

Mounting Plates for Customer Supplied Air Packs (3)	BCCUSTAIR	1	\$	750.00	\$	750.00
Radio Prep Package, (1) Max (2)	BCINSRA	1	\$	502.00	\$	502.00
Interior Crew Compartment Exhaust Fan	BCICEF	1	\$	1,188.00	\$	1,188.00
Weapons Mount	BCWMT	1	\$	200.00	\$	200.00
(2) Fin Grip Weapons Mount & Base	19-482	1	\$	1,200.00	\$	1,200.00
Light Weight Assault Litter	BCLWAL	1	\$	1,250.00	\$	1,250.00
IV Hooks	BCIVHOOK	1	\$	700.00	\$	700.00
Stretcher Hook Prep	BCSHP	1	\$	1,511.00	\$	1,511.00
Gooseneck Task Lights (4)	BCGTL	1	\$	3,265.00	\$	3,265.00
PS Medical Cabinet	BCMEDCABPS	1	\$	3,456.00	\$	3,456.00
DS Medical Cabinet	BCMEDCABDS	1	\$	11,135.00	\$	11,135.00
Stryker Center-Mount for Pro-XT Stretcher	BCPROXTMOUN	1	\$	16,570.00	\$	16,570.00
Split bench seat that folds up and stows against the rear wall	BCSBS	1	\$	2,312.00	\$	2,312.00
Height Adjustable Front Seat	BCHEIGHTSEAT	1	\$	1,432.60	\$	1,432.60
Battery Trickle Charger	BCTC	1	\$	1,392.00	\$	1,392.00
Center Mounted Bench Seating with Storage	BCCENTMB	1	\$	2,620.00	\$	2,620.00
Arabic Underhood 12v Warning Label	BCARABIC	1	\$	-	\$	-
Stryker ProXT Cot	BCPROXT	1				
Height Adjustable Front Seat	BCHEIGHTSEAT	1	\$	1,508.00	\$	1,508.00
Radio Prep Package - Driver Side Rear Wall Only, (Max 1)	BCINSRA-RW	1	\$	528.00	\$	528.00

#### Exterior Options:

(1) 7" Vertical GunPort Upgrade	BCGP7	1	\$	1,216.00	\$	1,216.00
Electric Power Mirrors	BCMIR	1	\$	1,508.00	\$	1,508.00
Heated Windshield Upgrade	BCHGW	1	\$	2,153.00	\$	2,153.00
Exterior Equipment Storage Compartment	BCSCOMP	1	\$	3,020.00	\$	3,020.00
Exterior Storage Cabinets; DS or PS (Deletes sidewall gunports; DS Not	BCESC	1	\$	4,738.00	\$	4,738.00
X-Series Utility Bed Cabinet	BCXBEDCAB	1	\$	5,622.00	\$	5,622.00
Flip-up Running Board	BCFRB	1	\$	3,904.00	\$	3,904.00
Reverse Opening Hood	BCROH	1	\$	4,100.00	\$	4,100.00
Single Side Personnel Door w/Window/Gunport/Adj Fit Gunner Stand	BCSSPD	1	\$	5,000.00	\$	5,000.00
4-Door Configuration	BC4DR	1	\$	7,858.00	\$	7,858.00
Intercom System: Inside to Outside	BCINT	1	\$	2,871.00	\$	2,871.00
Protective Window Screens	BCPWS	1	\$	6,882.00	\$	6,882.00
Protective Window Screens - Automatic	BCPWSA	1	\$	8,981.00	\$	8,981.00
Spec Rest Sniper System	BCSRESTSS	1	\$	3,980.00	\$	3,980.00
Gun Mount for 240 w/Pedestal/Gasket/Armor Shield	BCGMT240	1	\$	7,992.00	\$	7,992.00
Military Style Cupola and Mechanical Turret System	BCMTUR	1	\$	18,664.00	\$	18,664.00
Military Style Cupola w/Ballistic Windows & Mechanical Turret System	BCMCUPOLA	1	\$	26,321.00	\$	26,321.00
Police Cupola w/ Barn Doors	BCPTUR	1	\$	18,664.00	\$	18,664.00
Police Cupola w/ Glass & Barn Doors	BCPCUPOLA	1	\$	26,321.00	\$	26,321.00
Advanced Rescue Front End	BCARFE	1	\$	15,170.00	\$	15,170.00
Lo-pro Running Boards	BCLPRB	1	\$	-	\$	-
Kusmaul Super Eject Deluxe	BCKUSS	1	\$	945.00	\$	945.00
Police Cupola w/ Barn Doors	BCPTUR	1	\$	18,664.00	\$	18,664.00
Police Cupola w/ Glass & Barn Doors	BCPCUPOLA	1	\$	26,321.00	\$	26,321.00
Dillon Version Cupola	BCDCUPOLA	1	\$	26,520.00	\$	26,520.00
Dillon Version Cupola w/ Glass	BCDCUPOLAWGLASS	1	\$	31,105.00	\$	31,105.00
3-Point Door Latch System	POINTLOCK	1	\$	520.00	\$	520.00
Exterior Stokes Basket Storage; DS or PS (2DR & 3DR only; Deletes si	BCEXTSTOKE	1	\$	2,158.00	\$	2,158.00
Drop Bend Ladder Rung System - Side or Rear (Single Rear Door on O	BCDBLRS	1	\$	1,150.00	\$	1,150.00
Angled Ladder Rung System - Side or Rear (Single Rear Door Only) W	BSALRS	1	\$	775.00	\$	775.00

#### Armor Options:

Ballistic Skip Round Shield	BCBSRS	1	\$	1,936.00	\$	1,936.00
Armored Oil Pan Guard	BCAOPG	1	\$	1,936.00	\$	1,936.00
Supplemental Floor Armor/Blast Shield	BCSFA	1	\$	5,264.00	\$	5,264.00
Armored Engine Firewall	BCAEF	1	\$	14,217.00	\$	14,217.00
Front Skid Pan	BCFSP	1	\$	1,713.00	\$	1,713.00

#### Towing & Winch Options:

1-Plasma Rope	BCPLAS1	1	\$ 503.00	\$ 503.00
Rear Tow Hitch Receiver	BCRTOWR	1	\$ 1,005.00	\$ 1,005.00
Rear Tow Hitch Receiver w/ Winch Power	BCRTOWRWP	1	\$ 1,257.00	\$ 1,257.00
Electric Power Winch; Front Bumper Mounted	BCWNCHFRONT	1	\$ 5,242.00	\$ 5,242.00
Light Duty Electric Powered Winch; 10,000 lbs Capacity	BCWNCHSUVFR	1	\$ 5,243.00	\$ 5,243.00
Electric Power Winch / Synthetic Rope; Front Bumper Mounted	BCWNCHRMPFR	1	\$ 6,077.00	\$ 6,077.00
Electric Power Winch / Synthetic Rope; Modular with Winch Basket	BCWNCHRMP	1	\$ 6,095.00	\$ 6,095.00
Electric Power Winch; Modular w/Winch Basket	BCWNCH	1	\$ 6,207.00	\$ 6,207.00

**Special Response Options:**

Ammo Storage Rack	BCASR	1	\$ 2,310.00	\$ 2,310.00
Front Mounted Receiver with Ram Post and Plate	BCFRAM	1	\$ 4,499.00	\$ 4,499.00
Front Area Barricade Plow with Hydraulic Lift	BCPLOW	1	\$ 13,490.00	\$ 13,490.00
Hydraulic Front Mounted Receiver with Ram Post and Plate	BCHYDRAM	1	\$ 12,479.00	\$ 12,479.00
Break and Rake	BCBAR	1	\$ 1,200.00	\$ 1,200.00
Draco Prep Package	BCDRACOPREP	1	\$ 1,896.00	\$ 1,896.00
Ram Cam Prep Pkg	BCRCP	1	\$ 2,177.00	\$ 2,177.00
RAM Cam Plug & Play Package	BCPPP	1	\$ 5,040.00	\$ 5,040.00
Ram Cam with Monitor	BCRC	1	\$ 23,928.00	\$ 23,928.00
Gas Injector Unit	BCGIU	1	\$ 14,552.00	\$ 14,552.00
Gas Injector Storage Basket	BCGISB	1	\$ 1,295.00	\$ 1,295.00
Water Piercing Monitor	BCWPN	1	\$ 6,841.00	\$ 6,841.00
Water Monitor (Integration) w/Joy Stick Control; Bumper Mounted Noz	BCMONBMN	1	\$ 28,100.00	\$ 28,100.00
Water Monitor (Integration) with Joy Stick Control	BCMON	1	\$ 38,983.00	\$ 38,983.00
INTRAXX System (gunport layout)	BCINTRAXX	1	\$ 1,260.00	\$ 1,260.00
LRAD Wiring Prep (for internal controls)	BCLWP	1	\$ 6,800.00	\$ 6,800.00
LRAD T-Lock Mount	BCLTM	1	\$ 1,628.00	\$ 1,628.00
LRAD Hatch Mount	BCMHM	1	\$ 1,364.00	\$ 1,364.00
LRAD Roof Rail Mount	BCLRRM	1	\$ 1,430.00	\$ 1,430.00
LRAD 450XL	19-1249	1	\$ 31,120.00	\$ 31,120.00
Certified Air Transportability Package	BCCATP	1	\$ 2,486.00	\$ 2,486.00
Special Ops Package	BCSOP	1	\$ 12,519.00	\$ 12,519.00
Special Operations Style Flip-Up Bench (4-door configuration; per side)	BCSOB	1	\$ 3,098.00	\$ 3,098.00
Fire Suppression: Engine; Manual Discharge	BCFSUPE	1	\$ 6,080.00	\$ 6,080.00
Fire Suppression: Tires; Left Side & Right Side; Manual Discharge	BCFSUPT	1	\$ 13,870.00	\$ 13,870.00
Fire Suppression System (Crew Area Only)	BCFSSCA	1	\$ 18,900.00	\$ 18,900.00
Vehicle Front Stabilization System	BCVFSS	1	\$ 16,281.00	\$ 16,281.00
Vehicle Front Stabilization System Prep	BCVFSSPREP	1	\$ 500.00	\$ 500.00
Vehicle Rear Stabilization System Prep	BCVRSSPREP	1	\$ 500.00	\$ 500.00
Integrated Decontamination System	BCADS	1	\$ 25,176.00	\$ 25,176.00
Constant Needle Point Bipolar Ionization	BCNPBI	1	\$ 6,890.00	\$ 6,890.00
Lenco Certified Device Integration AT&T FirstNet	BCWIFI1	1	\$ 6,930.00	\$ 6,930.00
HRI Mineroller Vehicle Integration Kit w/ Export Crate	HRIMVIK-SOMFL	1	\$ 7,990.00	\$ 7,990.00
Hydraulic Ram Upgrade (Post Production non-prep)	BCHYDRAMPRO	1	\$ 19,679.00	\$ 19,679.00
24V System (HRI Mineroller Hydraulic Steering upgrade) w/ Export Cr	24VHRI-SOMFL	1	\$ 12,900.00	\$ 12,900.00
24-Volt Conversion System; 2-Cycle Batteries - CROWS	BC24VCSYS	1	\$ 12,500.00	\$ 12,500.00
Crows Integration w/24 Volt Conversion	BCCRWS	1	\$ 50,614.00	\$ 50,614.00
Instrument Blackout Panel	BCIBP	1	\$ 200.00	\$ 200.00
Gas Injector Unit Prep Package	BCGIUPREP	1	\$ 2,742.00	\$ 2,742.00
Optical Traffic Preemption Emitter	BCOTPE	1	\$ 2,550.00	\$ 2,550.00
Door Pivoting Ram Head	BCDPRH	1	\$ 1,280.00	\$ 1,280.00

**Service & Parts Options:**

Engineering Support Labor Rate (per hour)	BCELSR	1	\$ 260.00	\$ 260.00
ECM Diagnostics System	BCEDS	1	\$ 300.00	\$ 300.00
Ford F550 Service Manuals	BCFMNL	1	\$ 625.00	\$ 625.00
Roadside Tire Tool Kit	BCRTK	1	\$ 857.00	\$ 857.00
BearCat Spare Parts Kit	BCG5SP	1	\$ 1,863.00	\$ 1,863.00
BearCat UV Ray Protective Cover	BCUVPC	1	\$ 2,428.00	\$ 2,428.00
BearCat Life-Cycle Maintenance Program	BCLCMP	1	\$ 139,551.00	\$ 139,551.00
Ford Ignition Key	3-104	1	\$ 350.00	\$ 350.00

**Special Configurations (Proprietary):**

UN006 Special Configuration	UN006	1	\$ 15,947.00	\$ 15,947.00
IDGID Special Configuration	IDGID	1	\$ 23,624.00	\$ 23,624.00
LO001 Special Configuration	LO001	1	\$ 54,648.00	\$ 54,648.00
MT004 Special EOD Configuration	MT004	1	\$ 74,861.00	\$ 74,861.00
Navy Specialized Cupola & Turret System	BCMTURNA006	1	\$ 18,664.00	\$ 18,664.00
Navy Gun Mount System	BCCMTNA006	1	\$ 8,838.00	\$ 8,838.00
Quick Collapsible Navy Gun Mount System	BCC3GMTNA006	1	\$ 24,600.00	\$ 24,600.00
MIEMS Special Configuration	MIEMS	1	\$ 41,368.00	\$ 41,368.00
MICVA Special Configuration	MICVA	1	\$ -	\$ -
ATCEX Special Configuration Items	ATCEX	1	\$ 17,748.00	\$ 17,748.00
US020 Special Configuration	US020	1	\$ 51,945.00	\$ 51,945.00
MAFFL Special Configuration	MAFFL	1	\$ 61,680.00	\$ 61,680.00
FBGVA Special Configuration	FBGVA	1	\$ 7,344.00	\$ 7,344.00
PL003 Two Tone Paint Scheme	PL003	1	\$ 7,726.00	\$ 7,726.00
EN002 Special Configurator	EN002	1	\$ 14,722.00	\$ 14,722.00
NE014 Special Configuration	NE014	1	\$ 5,352.00	\$ 5,352.00
AL015 Special Configuration	AL015	1	\$ 3,343.00	\$ 3,343.00
US007 Special Configuration	US007	1	\$ 2,740.00	\$ 2,740.00

**Ingrations:**

AgileMesh Equipment Integration	AGLEMESH	1	\$ 4,592.00	\$ 4,592.00
Customer-Supplied Audio/Visual Device(s) Install	BCCSRI	1		
Patriot3 Prep	PATRIOT3PREP	1	\$ 750.00	\$ 750.00
Patriot 3 MARS	PATRIOT3MARS	1		
Patriot 3 Liberator	PATRIOT3LIB	1		
Patriot 3 OSR	PATRIOT3OSR	1		
Patriot 3 ARC	PATRIOT3ARC	1		
Patriot 3 Emergency Evacuation Stairway	PATRIOT3EES	1		
Patriot 3 2 Meter Tactical Ladder	PATRIOT32MTL	1		
Patriot 3 3 Meter Tactical Ladder	PATRIOT33MTL	1		
Patriot 3 4 Meter Tactical Ladder	PATRIOT34MTL	1		
Patriot 3 360 Degree Tactical Turret	PATRIOT3360TT	1		
Patriot 3 Multi Angle Extension Ramp	PATRIOT3MER	1		
Patriot 3 Extended Access Stairway	PATRIOT3EAS	1		
Patriot 3 Side Deployment Rails	PATRIOT3SDR	1		
Patriot 3 Side Assault System	PATRIOT3SAS	1		
Patriot 3 Fast Assault Suspension Tower	PATRIOT3FAST	1		
Patriot 3 Observation Sniper Bench	PATRIOT3OSB	1		
Patriot 3 Ramp Ballistic Panel	PATRIOT3RBP	1		
Patriot 3 Ramp Illumination Markers	PATRIOT3RIM	1		
Patriot 3 Wireless Ramp Controller	PATRIOT3WRC	1		
Patriot 3 Dynamic Distraction Lighting	PATRIOT3DDL	1		
Patriot 3 MER Supplemental Lighting	PATRIOT3MERSI	1		
Patriot 3 Situational Awareness Camera	PATRIOT3SAC	1		
Patriot 3 Operation/Maintenance Training	PATRIOT3OMT	1		
Patriot 3 Spare Parts Package	PATRIOT3SP	1		
MIT ARES Prep	MITARESPREP	1		
MIT ARES	MITARES	1		
MIT 3-Man Rappel/Fast Roping Structure	MITFRS	1		
MIT Ropes Package	MITFR	1		
MIT Ballistic Protection Sniper Perch	MITAAP	1		
MIT Side Assault System	MITSAS	1		
MIT Training Package	MITTR	1		
MIT ARES Graphical Interface Application	MITGIA	1		
MIT Spare Parts Package	MITSP	1		
MIT Maintenance Training Package	MITMTF	1		
<b>BearCat (Configuration Subtotal)</b>		<b>1</b>	<b>\$ 3,148,343.94</b>	<b>\$ 3,148,343.94</b>

# CERTIFIED COPY OF ORDER

STATE OF MISSOURI }  
County of Boone } ea.

September Session of the July Adjourned

Term. 20 23

In the County Commission of said county, on the 5th day of September 20 23

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

Now on this day, the County Commission of the County of Boone does hereby approve the following Budget Amendment from Resource Management to add funds for the Cooperative Hinkson Creek Continuous Water Quality Monitoring Project with the City of Columbia and The Curators of the University of Missouri.

Done this 5<sup>th</sup> day of September 2023.

ATTEST:

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

Kip Kendrick  
Kip Kendrick  
Presiding Commissioner

Justin Aldred  
Justin Aldred  
District I Commissioner

Janet M. Thompson  
Janet M. Thompson  
District II Commissioner



MAINSCR BOONE Core Budget Description - View Only ADHEATHE 11:11:26  
 Year 2023 Dept 1725 GF RM STORMWATER PLANNING Finalized Y 8/16/23  
 Account 71100 OUTSOURCED SERVICES 2022 Est \* 3,607  
 2022 Bdgt 3,067 YTD 3,066 % of Bdgt 100 Est % of Bdgt 118

Description	Qty	Unit	Amount	Total
MEYER INDUSTRIAL BIORETENSION MAIN	*		2,000	2,000
MEYER INDUSTRIAL BIORETENTION BASIN MAINTENANCE	*		3,500	3,500
* CAM HINKSON CREEK CONTINUOUS WATER QUALITY	*		36,315	36,315

41,500  
 - 36,315  
 \$5,185 Additional budget needed

Class	Amount	Class 2-8	Amount	Proposed Core	Proposed Supp	Auditor Rev	Commission Rev	Total Budget	Bottom % Chg
45,623		72,124		2,000	39,815			41,815	97-

F2=Key Scr F3=Exit F5=History  
 F6=Dept Supplemental Budget F10=Notes \*  
 F12=Return F15=Summary

Budget Year 2023  
Department 1725 GF RM STORMWATER PLANNING  
Account 71100 OUTSOURCED SERVICES

Description	Qty	Amount
<u>CAM HINKSON CREEK CONSTINUOUS WATER QUALITY</u>		<u>36,315</u>
	<u>Total</u>	

Notes

THIS AGREEMENT WOULD BE FOR A 24 MONTH PERIOD AND  
THE TOTAL COST OF \$107,145 WOULD BE SPLIT 3 WAYS  
WITH OUR CAM PARTNERS - CITY OF COLUMBIA &  
UNIVERSITY OF MISSOURI  
\$35,715 IS OUR 1/3 OF ORIGINAL PROPOSAL WE ADDED  
\$600 FOR POSSIBLE EQUIPMENT PURCHASE PRICE  
INCREASE BECAUSE OF DELAY FROM PROPOSAL DATE TO  
PROPOSAL ACCEPTANCE

More...



**INTERGOVERNMENTAL COOPERATIVE AGREEMENT FOR THE HINKSON CREEK CONTINUOUS WATER QUALITY MONITORING PROJECT**

The parties hereto are the City of Columbia, Missouri, a Constitutional charter city of the State of Missouri (the "City"), the County of Boone, a first class non-charter county and political subdivision of the State of Missouri by and through its County Commission (the "County"), and The Curators of the University of Missouri (the "University") and those parties enter this Intergovernmental Cooperative Agreement ("Agreement") effective on the date of signing by the third party executing this Agreement ("Effective Date").

Whereas, the parties entered an Intergovernmental Cooperation Agreement, attached hereto as Exhibit A, on April 2, 2013; and,

Whereas, in that Agreement the parties acknowledged their mutual obligations in certain projects initiated under a Collaborative Adaptive Management (CAM) process emanating from a Municipal Separate Storm Sewer System (MS4) permit issued by the Missouri Department of Natural Resources; and,

Whereas, the parties now wish to agree to the scope and details and costs of a study project known as the "Hinkson Creek Continuous Water Quality Monitoring Project".

Whereas, the County will enter into the contract with Geosyntec Consultants to perform work for the project.

Whereas, the County will provide the City and the University access to all data and deliverables received from the consultant.

NOW, THEREFORE, in consideration of the mutual covenants in this Acknowledgement, the parties agree as follows:

1. The parties agree to the scope and details of the project known as the "Hinkson Creek Continuous Water Quality Monitoring Project" as described in the attached Exhibit B. This project has a total not to exceed amount of \$124,500.00, with each of the parties' total proportionate one-third costs not to exceed \$41,500.00. The proportionate payments shall be subject to the appropriations of each of the parties. Subject to appropriation, the City Finance Director will have the authority to make payment on behalf of the City to the County, after receiving an invoice for the proper amounts as set forth herein. Subject to appropriations, the University and County shall take whatever individual actions they deem appropriate to make payment for the proper amounts as set forth herein.

2. No party may assign or transfer any of its rights or obligations under this Agreement to any other person or entity without the prior, written consent of the other parties.
3. This Agreement is for the sole benefit of the parties, and nothing in this Agreement is intended to confer any rights or remedies on any third party.
4. Nothing in this Agreement will be deemed or construed by the parties, nor by any other entity or person, as creating any principal and agent relationship, or partnership, or joint venture, between the parties.
5. This Agreement will be governed by the laws of the State of Missouri, and any action relating to this Agreement will be brought in the Circuit Court of Boone County, Missouri.
6. The covenants, agreements, and obligations in this Agreement will extend to, bind, and inure to the benefit of the parties and their respective successors and approved assigns.
7. Each person signing this Agreement on behalf of any 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.
8. The parties state that this Agreement, together with its attached Addenda A through B, contains the entire agreement between the parties, and there are no other oral, written, express, or implied promises, agreements, representations, or inducements not specified herein.
9. **No Waiver of Sovereign Immunity.** In no event shall the language of this Agreement constitute or be construed as a waiver or limitation for any 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 constitution or law.

IN WITNESS WHEREOF the parties hereto have caused this Acknowledgement to be executed by their duly-authorized officers on day and year indicated by their signature below.

**BOONE COUNTY, MISSOURI**

By:

\_\_\_\_\_  
Kip Kendrick, Presiding Commissioner

\_\_\_\_\_  
Date

**ATTEST:**

\_\_\_\_\_  
Brianna L. Lennon, County Clerk

**APPROVED AS TO LEGAL FORM:**

\_\_\_\_\_  
C.J. Dykhouse, County Counselor

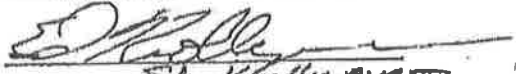
**Boone County Auditor Certification:**

I hereby certify that a sufficient, unencumbered appropriation balance exists and is available to satisfy the obligation 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.)

\_\_\_\_\_  
Kyle Riegan, County Auditor

\_\_\_\_\_  
Date

THE CURATORS OF THE UNIVERSITY OF MISSOURI

By:   
Name Ed Kholten  
Date 6/9/2023


CITY OF COLUMBIA, MISSOURI

By: DocuSigned by:  
De'Carlton Seewood TMS  
850473D77F50480...  
De'Carlton Seewood, City Manager


8/8/2023

Date

ATTEST:

DocuSigned by:  
  
4E1F00D5266D40A...  
Sheela Amin, City Clerk

APPROVED AS TO FORM:

DocuSigned by:  
 DS  
ML  
0A01090E78004D2...  
Nancy Thompson, City Counselor

I hereby certify that this contract is within the purpose of the appropriation to which it is to be charged, that is, account 55806610-504990 and that there is an unencumbered balance to the credit of such account sufficient to pay therefore.

DocuSigned by:  
 DS  
ML  
0032FF4594024E0...  
Matthew Lue, Director of Finance

## INTERGOVERNMENTAL COOPERATION AGREEMENT

This intergovernmental cooperation agreement (the "Agreement") is entered into on this 2<sup>ND</sup> day of APRIL, 2013, by and between the City of Columbia, Missouri, a Constitutional charter city of the State of Missouri (hereinafter referred to as the "City"), and the County of Boone in the State of Missouri (hereinafter referred to as "County"), and The Curators of the University of Missouri (hereinafter referred to as "University"); and may collectively be referred to as the "Parties."

WHEREAS, a Total Maximum Daily Load (TMDL) for Hinkson Creek was issued by the Federal Environmental Protection Agency (EPA) in 2011; and

WHEREAS, the City, County, and University are partners in a Municipal Separate Storm Sewer System (MS4) permit issued by the Missouri Department of Natural Resources, which is affected by the TMDL; and

WHEREAS, the City, County, and University entered into an agreement with the EPA and the Missouri Department of Natural Resources (DNR) to address the TMDL with a Collaborative Adaptive Management (CAM) process; and

WHEREAS, the City, County, and University wish to enter into an agreement with regard to how the Parties will contribute to projects that are initiated in the CAM process to address the TMDL.

NOW, THEREFORE, the parties agree as follows:

- 1 **TYPES OF PROJECTS.** The Parties will contribute to projects which are initiated in the CAM process to address the TMDL for research, study, or monitoring-type projects and for construction projects.

For research, study, or monitoring-type projects, the three entities will each be responsible for one-third of the project cost. The University shall coordinate research, study, or monitoring-type projects on behalf of the parties. Before any research, study, or monitoring-type project is started, the Parties shall agree in writing regarding the scope and details of the project, including a not-to-exceed amount for each project.

For construction projects, each entity will exercise discretion and control over projects and be responsible for the costs of projects conducted on its own property unless otherwise agreed between the parties in writing.

2. **APPROPRIATIONS.** All types of projects shall be subject to the appropriations of the Parties who shall pay for the projects. Subject to these appropriations, the Parties shall each delegate in writing a person who shall be responsible for implementing this agreement and any associated documents or contracts to give this agreement effect.



1300860A

COL. CITY  
CAM PROJ. HINKSON CREEK


3. **TERM.** The effective date of this Agreement is the date the last party executes the Agreement and provides original executed documents to the other Parties. Any of the Parties may terminate this Agreement at any time by providing the other Parties written notice of their intent to terminate at least thirty (30) days in advance of the intended termination date
4. **ASSIGNMENT.** None of the Parties may assign or transfer any of its rights or obligations under this Agreement to any other person or entity without the prior, written consent of the other Parties.
5. **SOLE BENEFIT OF PARTIES.** This Agreement is for the sole benefit of the City, County and University. Nothing in this Agreement is intended to confer any rights or remedies on any third party.
6. **ENTIRE AGREEMENT.** The Parties state that this Agreement contains the entire agreement between the Parties, and there are no other oral, written, express or implied promises, agreements, representations or inducements not specified herein.
7. **AUTHORITY.** The signatories to this Agreement warrant and certify that they have obtained the necessary authority, by resolution or otherwise, to execute this Agreement on behalf of the named party for whom they are signing.

[SIGNATURES ON THE FOLLOWING PAGES]

IN WITNESS WHEREOF, the Parties hereto have been duly authorized to execute this Agreement as of the day and year first above written.

CITY OF COLUMBIA, MISSOURI

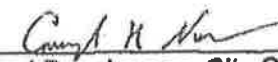
By:

  
Mike Matthes, City Manager

ATTEST:

  
Sheela Amin, City Clerk

APPROVED AS TO FORM:

  
Fred Boeckmann, City Counselor  
Cavanaugh, Neal



**BOONE COUNTY, MISSOURI**

By:   
Dan Atwill, Presiding Commissioner

**ATTEST:**

  
Wendy Noren, County Clerk *ny*

**APPROVED AS TO FORM:**

  
C.J. Dykhouse, County Attorney



2009 East McCarty St., Suite 1  
Jefferson City, MO 65101  
P: 573.443.4100  
FAX: 573.443.4140  
www.geosyntec.com

VIA EMAIL

April 1, 2022  
Revised, September 28, 2022

Lynne Hooper  
Urban Hydrologist, Boone County Resource Management (BCRM)  
801 E. Walnut  
Columbia, MO 65201-7732  
[lhooper@boonecountymo.org](mailto:lhooper@boonecountymo.org)

**Subject: Proposal for Hinkson Creek Continuous Water Quality Monitoring**

Dear Ms. Hooper:

This revised proposal addresses the clarifications and decisions made regarding the April 1, 2022 proposal submitted by Geosyntec Consultants, Inc. (Geosyntec) to conduct continuous water quality monitoring on Hinkson Creek. The clarifications include selection of the number of stations, duration of monitoring, and coordination with Dr. Zeiger's ongoing water quality monitoring of Hinkson Creek.

#### **INTRODUCTION AND PURPOSE**

In 2019, Geosyntec assisted the Hinkson Creek Collaborative Adaptive Management (CAM) process by performing an *Environmental Analysis Study: Hinkson Creek Macroinvertebrate Data Mining Project*. Through this project, Geosyntec identified chloride as an aquatic life stressor in Hinkson Creek. Publicly available water quality data indicate attainment of in-stream chloride water quality standard protective of Missouri's aquatic life. However, based on when historic chloride data were collected and other scientific research, chloride data were not believed indicative of potential elevated concentrations during critical periods (winter season). In addition, chloride concentrations in Hinkson Creek were noted to correlate with instream specific conductance. Therefore, continuous specific conductance is a candidate surrogate for continuous chloride monitoring to characterize frequency, magnitude, duration, and travel time of chloride stressors in Hinkson Creek and its tributaries.

Geosyntec provides this proposal to perform continuous water level, water temperature and specific conductance monitoring at six (6) to be determined Hinkson Creek or tributary stations.

Ms. Lynne Hooper  
Sep. 28, 2022  
Page 2

New Solinst Levellogger 5 level, temperature and conductivity (LTC) instrumentation are proposed for continuous monitoring and will become property of the project's funding entity for subsequent use. **Attachment A** includes the specifications of the Solinst Levellogger 5 LTC instrumentation.

### **SCOPE OF WORK**

The following tasks of field reconnaissance, station deployment, monthly station maintenance and data acquisition, instrumentation removal, and project reporting are proposed for monitoring water quality of Hinkson Creek and its tributaries.

#### **Task 1. Reconnaissance**

**Objective:** Geosyntec will visit proposed monitoring station locations to evaluate suitability for instrumentation and the resources (e.g., hardware) for developing semi-fixed continuous water quality monitoring station network in Hinkson Creek or its tributaries.

#### **Activities:**

- Document suitability, specific location, and necessary hardware to establish a semi-fixed water quality monitoring station network.
- Evaluate specific conductance variability of the stream cross-sections (distance and depth).
- One (1) meeting with the Hinkson CAM to finalize selected monitoring stations.
- Procure and prepare necessary instrumentation and installation hardware for Task 2.

#### **Deliverables:**

- Provide field data and site images for each station evaluated for the Hinkson CAM site selection meeting.

#### **Assumptions**

- Prior to reconnaissance, BCRS or Hinkson CAM will select six (6) Hinkson Creek or tributary monitoring stations.
- Budget includes three (3) extra, for a total of nine (9) Solinst Levellogger 5 LTC instruments.
- Recon up to 6 stations in one 8-hour day.
- Two (2) Geosyntec staff per day for station recon.
- New Solinst Levellogger 5 LTC instrumentation will become property of the project's funding entity.

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Sep. 28, 2022  
Page 3

## **Task 2. Station Installation and Instrumentation Deployment**

**Objective:** In accordance with field reconnaissance data, Geosyntec will deploy six (6) water quality monitoring stations in Hinkson Creek or tributaries with Solinst Levelogger 5 LTC instruments to continuously (every 15-minutes) monitor water temperature, water level and specific conductance. This data collection frequency is consistent with Dr. Zeiger's five (5) monitoring stations in Hinkson Creek.

### **Activities:**

- Calibration of Solinst Levelogger 5 LTC instruments.
- After calibration, compare one (1) Solinst Levelogger 5 LTC instrument to one (1) of Dr. Zeiger's HOBO onset conductivity sensors for confirmation of conductivity values.
- Water quality station installation and instrumentation deployment.

### **Deliverables:**

- If requested, provide field notes and images of each station deployed.

### **Assumptions:**

- Final monitoring station selection will be agreed upon and finalized by BCRM or the Hinkson CAM.
- Data are not transmitted real-time and require manual download (monthly interval).
- Water levels are relative and not established for development of flow rating curve.
- For health and safety purposes, two (2) Geosyntec staff per day of deployment.
- Instrumentation deployment will occur during base flow conditions approximately at the start of the water year (October 1<sup>st</sup>, 2023).
- Dr. Zeiger or representative will be available for Solinst Levelogger 5 LTC and HOBO onset conductivity sensor comparison.
- Monitoring duration will be three (3) years from deployment.

## **Task 3. Station Maintenance and Data Acquisition**

**Objective:** Station maintenance (instrumentation cleaning and calibration) and data retrieval from each station will occur monthly. Downloaded data will be compiled in a continuous database for each station.

### **Activities:**

- Monthly station maintenance (cleaning, calibration/checks) and download data.
- Monthly data compilation and review.

Ms. Lynne Hooper  
Sep. 28, 2022  
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- Monthly drift corrections, as applicable; quality assurance and quality control reviews; and data validation.

**Deliverables:**

- Monthly maintenance (calibration) data sheets will be provided.
- Quarterly summary report will be provided per station.

**Assumptions:**

- Maintain up to six (6) stations in an 8-hour day.
- Replacement of instruments stolen or damaged from vandalism or flooding will be the responsibility of the funding entity.

**Task 4. Station Removal**

**Objective:** Removal of water quality monitoring instrumentation and installation hardware.

**Activities:**

- Equipment removal and restoration of site to pre-existing conditions.

**Deliverables:**

- No deliverable associated with station removal.

**Assumptions:**

- Remove up to six (6) monitoring stations in an 8-hour day.

**Task 5. Project Reporting and Management**

**Objective:** Database and PowerPoint presentation to the Hinkson Creek CAM summarizing continuous water quality (temperature, level, and specific conductance) data collected.

**Activities:**

- Final raw and validated database.
- Summary of water quality parameters data statistics for the period of monitoring.
- Quarterly and annual timeseries figures of water quality parameters.
- PowerPoint presentation to the Hinkson CAM.
- Monthly project management.

Ms. Lynne Hooper  
Sep. 28, 2022  
Page 5

**Deliverables:**

- PowerPoint presentation to Hinkson CAM.
- Raw and validated (formulas/code removed) database.

**Assumptions:**

- One (1) Hinkson CAM PowerPoint presentation.
- Electronic water quality database transmittal.

**SCHEDULE**

The project will be performed starting approximately October 1, 2023, for a duration of three (3) years.

**PROJECT SUMMARY ESTIMATE**

The estimated cost to complete the proposed scope of work is **\$124,500**. This estimate was developed using projected labor rates and direct costs. Geosyntec has attempted to provide this as a not-to-exceed estimate; however, it may be modified at the time of contracting due to unforeseen circumstances. The project work will be conducted on a time-and-materials basis.

Should you have any questions, please contact Cody Luebbering.

Sincerely,  
Geosyntec Consultants

*Cody Luebbering*

Cody Luebbering  
Senior Scientist

**ATTACHMENTS**

A: Solinst Levellogger 5 LTC Specifications

B: Example Water Quality Calibration Sheet and Instrumentation Servicing Sheet

**Solinst****Levelogger 5 LTC**

More Info | Instructions | Get Quote

Model 3001 Data Sheet

**Levelogger 5 LTC**

Level, Temperature, Conductivity

The Levelogger\* 5 LTC logs water level, temperature, and conductivity. It combines a datalogger, 8-year battery, Hastelloy® pressure sensor, temperature detector, and conductivity sensor within a small waterproof housing, 22 mm x 208 mm (7/8" x 8.2"). A baked-on coating using polymerization technology protects the body against corrosion, abrasion and high temperatures. The conductivity sensor is a 4-electrode platinum sensor, with autoranging capabilities. The minimal-maintenance, sealed Levelogger 5 LTC is simple to clean and calibrate, even in the field.

**5**

<b>Level Sensor:</b>	Piezoresistive Silicon with Hastelloy Sensor
<b>Ranges:</b>	5, 10, 20, 30, 100, and 200 m
<b>Accuracy:</b>	±0.05% FS
<b>Resolution:</b>	0.001% FS to 0.0006% FS
<b>Units of Measure:</b>	cm, m, ft, psi, kPa, bar (°C, °F)
<b>Normalization:</b>	Automatic Temperature Compensation
<b>Temp Comp. Range:</b>	0°C to 50°C
<b>Temperature Sensor:</b>	Platinum Resistance Temperature Detector (RTD)
<b>Accuracy:</b>	±0.05°C
<b>Resolution:</b>	0.003°C
<b>Conductivity Sensor:</b>	4-Electrode Platinum
<b>Full Range:</b>	0 – 100,000 µS/cm
<b>Calibrated Range:</b>	50 – 80,000 µS/cm
<b>Accuracy:</b>	±1%; 5,000 µS/cm – 80,000 µS/cm; greater of ±2% or 15 µS/cm; 50 µS/cm – 5,000 µS/cm
<b>Resolution:</b>	±0.1 µS/cm
<b>Temp Comp. Range:</b>	0°C – 50°C
<b>Normalization:</b>	Specific Conductance @ 25°C
<b>Battery Life:</b>	8 Years (1 reading every 5 minutes)
<b>Clock Accuracy (typical):</b>	±1 minute/year (-20°C to 80°C)
<b>Operating Temperature:</b>	-20°C to 80°C
<b>Maximum Readings:</b>	100,000 sets of readings
<b>Memory:</b>	Slate or Continuous
<b>Communication:</b>	Optical high-speed: 57,600 bps with USB
<b>Size:</b>	22 mm x 208 mm (7/8" x 8.2")
<b>Weight:</b>	197 grams (6.95 oz)
<b>Corrosion Resistance:</b>	Baked-on coating using polymerization
<b>Wetted Materials:</b>	Platinum, Delrin®, Viton®, 316L Stainless Steel, Hastelloy, Regulator approved PFAS-free PTFE (inside and out)
<b>Sampling Mode:</b>	Linear, Event & User-Selectable with Repeat Mode, Future Start, Future Stop, Real-Time View
<b>Measurement Rates:</b>	2 seconds to 99 hours
<b>Barometric Compensation:</b>	Software Wizard and Barologger 5

LTC Models	Full Scale (FS)	Accuracy	Resolution
M5, C80	5 m (16.4 ft.)	±0.3 cm (0.010 ft.)	0.001% FS
M10, C80	10 m (32.8 ft.)	±0.5 cm (0.016 ft.)	0.0006% FS
M20, C80	20 m (65.6 ft.)	±1 cm (0.032 ft.)	0.0006% FS
M30, C80	30 m (98.4 ft.)	±1.5 cm (0.064 ft.)	0.0006% FS
M100, C80	100 m (328.1 ft.)	±5 cm (0.164 ft.)	0.0006% FS
M200, C80	200 m (656.2 ft.)	±10 cm (0.328 ft.)	0.0006% FS

**Upgraded Features**

- Increased memory: 100,000 sets of data
- More stable communication: single-eye optical, easy to clean, more scratch resistant
- Stronger, robust design: double o-ring seals for two times over pressurization rating
- Better thermistor and conductivity sensitivity: upgraded platinum RTD and conductivity sensor
- Superior protection in harsh conditions: baked-on coating using polymerization—inside and out

**User-Friendly Operation**

Software Calibration and Data Wizards guide you through conductivity calibration and barometric compensation, ensuring accurate data sets. The Data Wizard also converts conductivity readings to Specific Conductance (@ 25°C).

Levelogger Software allows you to easily program your preferences, download data, and display data in a graph or table format or export to other programs. Real Time View allows immediate viewing of live water level, conductivity, and temperature readings.

Leveloggers are easy to deploy; install with direct read cables or wireline/cord suspension. The Levelogger 5 LTC is SDI-12 compatible using the Solinst SDI-12 Interface Cable.

Download data in the field using the new Field Reader 5, DataGrabber 5 USB data transfer device, or through Bluetooth® using the Levelogger 5 App Interface and your smart device. Integrate the Levelogger 5 LTC with Solinst Telemetry Systems, which use the latest wireless technologies.

**Levelogger 5 LTC Applications**

- Salt water intrusion and soil salination monitoring
- Plume remediation monitoring and studies
- Leachate monitoring at landfills, mine tailings, waste disposal storage sites, and more
- Agricultural and stormwater runoff monitoring
- Create a historical database for potable water supply monitoring
- Tracer tests

High Quality Groundwater and Surface Water Monitoring Instrumentation

**Solinst**

# Solinst

## Levellogger 5 LTC

### Biofoul Screen

When a Levellogger 5 LTC is deployed for an extended period, there is the risk of biofouling on the pressure sensor and/or conductivity cell, which can compromise their readings.

The Biofoul Screen is designed to reduce the unwanted buildup of microorganisms, plants, algae, or organisms such as barnacles and mussels, on the sensors. The Biofoul Screen consists of a Delrin sleeve wrapped with copper wire. Slip onto the sensor end of a Levellogger 5 LTC, where it is held in place by compression fit.

Using the natural anti-fouling characteristics of copper, the Biofoul Screen is an affordable option to lengthen the time a



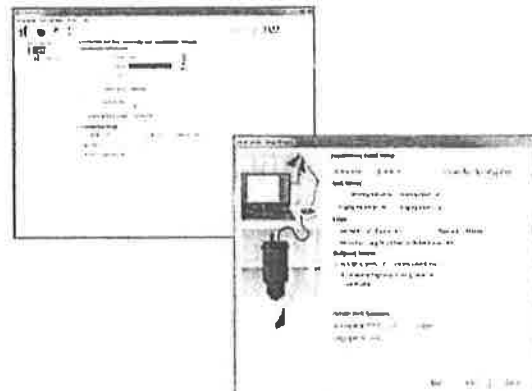
An optional Biofoul Screen provides extra protection for the Levellogger 5 LTC pressure and conductivity sensors in harsh environments.

Levellogger 5 LTC can be deployed. It reduces site visits and time spent cleaning Levelloggers, and improves long-term performance by ensuring accurate sensor measurements.

### Levellogger 5 App Interface

The Solinst Levellogger App is designed to communicate to Solinst dataloggers via your smart device. Programming options include start/stop, data downloading, linear and real-time sampling, future start/stop, and GPS coordinates.

The Levellogger 5 App Interface uses Bluetooth wireless technology to connect with your smart device running the Solinst Levellogger App. Use our Levellogger 5 App Interface and a Solinst direct read cable to communicate to a downhole Levellogger and email data files right from the field (see Model 3001 Solinst Levellogger 5 App Interface data sheets).



### LevelSender 5 Telemetry System

Instantly add cellular telemetry to your Levellogger 5 LTC by connecting to a Model 9500 LevelSender 5. Send data by email or SMS from your remote stations to your desired location. The LevelSender 5 simplifies your telemetry setup, by working with Solinst direct read cables and is compatible with the full Levellogger Series product line (see Model 9500 LevelSender 5 data sheet).

The Solinst logo is a registered trademark of Solinst Ltd. The Levellogger 5 logo is a registered trademark of Solinst Ltd. The LevelSender 5 logo is a registered trademark of Solinst Ltd. The Levellogger 5 App logo is a registered trademark of Solinst Ltd. The LevelSender 5 App logo is a registered trademark of Solinst Ltd. The Levellogger 5 App Interface logo is a registered trademark of Solinst Ltd. The LevelSender 5 App Interface logo is a registered trademark of Solinst Ltd. The Levellogger 5 App Interface data sheets are a registered trademark of Solinst Ltd. The LevelSender 5 App Interface data sheets are a registered trademark of Solinst Ltd. The Levellogger 5 App Interface data sheets are a registered trademark of Solinst Ltd. The LevelSender 5 App Interface data sheets are a registered trademark of Solinst Ltd.

# Solinst



## Water Quality Servicing Data Sheet

Sampling Site: \_\_\_\_\_

Date: \_\_\_\_\_

General Information			
Arrival Time:	Departure Time:	Barometric Pressure (mmHg):	Last Site Visit:
Weather:		Field Crew Members (name):	
Temp (F) (approx.):	Water Depth (ft) (approx.):		

### Site Information

Sonde Readings	Time	Spec. Cond. (uS/cm)	Water Temp. (°C)	DO (mg/L)	DO %	pH
Field Sonde Reading at Time of Arrival						
QA Sonde Readings						
Field Sonde Reading After Cleaning						
Field Sonde Last Three Logged Readings						
Field Sonde Calibration Reading				Initial DO %	Cal DO %	
Field Sonde Post Calibration Reading						
QA Sonde Readings						

Batteries Replaced: Y N	Voltage:
Sonde Logging Active: Y N NA	
Sonde & Probe Condition:	
Run Mode Exited before Sonde Was Disconnected? Y N NA	Field Crew Initials:
Was Unit Running? Y N NA	
Comments:	

Water Quality Instrumentation Calibration Log

Project Name:

Calibration Prior to Field Activities

Handset Model \_\_\_\_\_

Handset ID # \_\_\_\_\_

Date: \_\_\_\_\_ Time: \_\_\_\_\_

Sonde Model \_\_\_\_\_

Sonde ID # \_\_\_\_\_

Person performing calibration:

	Equipment	Standard Solution	Temperature (°C)	Initial Reading	Final Reading	Units
Dissolved Oxygen	YSI	100.0				% saturation
SP Conductivity	SolInst	1.413				mS/cm
pH (1st point - 7.0)*	YSI	7.0 / 0.0 (±50)				pH/mV (0 ±50)
pH (2nd point - 10.0)*	YSI	10 / -180 (±50)				pH / mV = Δ 155 - 180 of pH 7.0

DO Gain:

YSI barometric pressure reading at time of calibration:

End of Day Testing After Completion of Field Activities

Date: \_\_\_\_\_

Time: \_\_\_\_\_

YSI barometric pressure reading at time of check:

Personnel performing testing:

	Equipment	Standard Solution	Temperature (°C)	Reading	Difference between standard and reading	Acceptable Range	Units	Out of Range (Y or N)
Dissolved Oxygen	YSI	100.0				90.0-110.0	% saturation	
SP Conductivity	SolInst	1.413				1.342-1.484	mS/cm	
pH (1st point - 7.0)	YSI	7.00				6.8-7.2 / 0.0 ±50	SU	
pH (2nd point - 10.0)	YSI	10.00				9.8-10.2 / Δ 155 - 180 of pH 7.0	SU	

	Standards Lot #	Exp. Date
pH 7.0		
pH 10.0		
SP Conductivity		

## Hinkson Creek CAM Science Team Recommendation for Specific Conductance Data Logger Deployment

### Executive Summary

Chloride is a known stressor of aquatic life and concentrations exceeding water quality standards have been documented in Hinkson Creek. Although chloride is an apparent cause of impairment in Hinkson Creek, there are likely other physical, chemical, and/or hydrological issues that contribute to aquatic life impairment. Studies on Hinkson Creek have shown that chloride concentrations are about four-times higher than those in reference/control streams. Chloride concentrations in Hinkson Creek tend to increase from upstream to downstream as land use in the watershed transitions from rural to urban. Some of the chloride values that have been measured exceeded water quality criteria levels, indicating toxic chloride events have occurred in Hinkson Creek.

Specific conductance can be defined as the indirect measurement of all dissolved ions in water, measured through electrical conductance. Chloride is one of the dissolved ions measured. Chloride is difficult to measure continuously, complicating the ability to detect peak concentrations as well as long term continuous concentrations. Specific conductance can be measured continuously and cost effectively. Specific conductance can fluctuate greatly in Hinkson Creek during the winter months, indicating water quality is dynamic. Studies show that while elevated chloride levels are most likely to occur during winter months, high concentrations can occur during non-winter periods.

The Science Team recommends deploying six (6) specific conductance sensors, in complement with those deployed by Lincoln University (Dr. Sean Zeiger), for a minimum of three (3) years. The Geosyntec proposal (attached) is for three years. The Science Team believes that three years would be likely to include a range of hydrological events. This will document seasonal variation, track the moving baseline resulting from continued development in the watershed, and assist with identifying tributaries that have the greatest relative contribution of chloride and other dissolved ions.

### Lincoln University Specific Conductance Monitoring (Dr. Sean Zeiger)

Utilizing funding not connected to the Hinkson CAM, Dr. Sean Zeiger has installed discharge gages at five (5) sites on Hinkson Creek and plans to deploy specific conductance data loggers at each of the sites.

1. Hinkson Creek near Rogers Road
2. Hinkson Creek near Mexico Gravel Road

3. Hinkson Creek near Walnut
4. Hinkson Creek near Providence
5. Hinkson Creek near Forum

#### Geosyntec Specific Conductance Monitoring

Geosyntec has provided a proposal and budget for the deployment, operation, and maintenance of specific conductance data loggers (attached). The Science Team recommends funding the deployment of data loggers for a minimum of three (3) years at the following sites:

1. Hinkson Creek below I-70
2. Hominy Branch near Moon Valley Road
3. Grindstone Creek near Rock Quarry Road
4. Flat Branch near Stadlum or MKT Trail
5. County House Branch below Chapel Hill Road
6. Mill Creek near Scott Boulevard

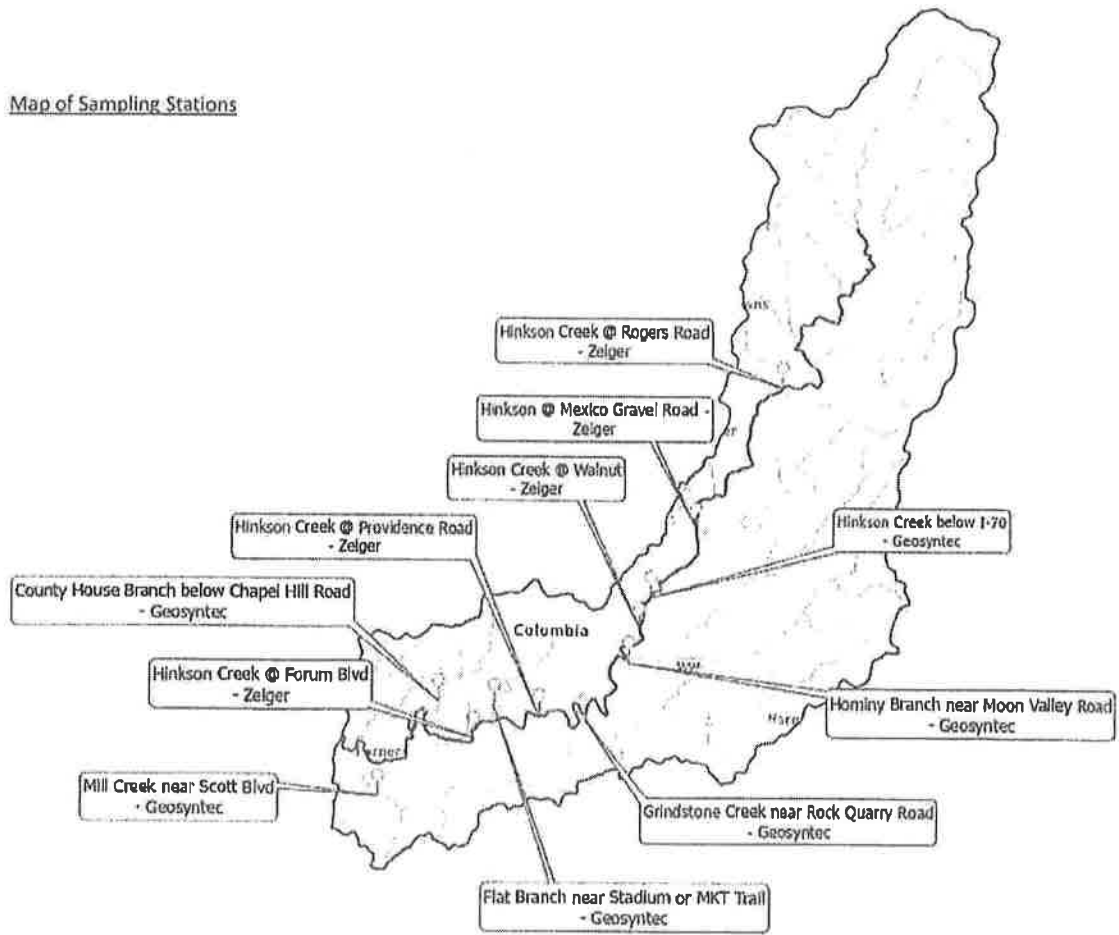
#### Data Management and Analysis

The data acquisition by Geosyntec and Lincoln University are funded by different sources and each come with their own requirements for data management.

In order to assure that data collected by Geosyntec and by Lincoln University are comparable, both parties will calibrate and validate instruments to the same standards and perform maintenance on comparable schedules. It would be beneficial – but not essential – that they both use the same models of specific conductance instruments.

The parties will jointly develop and employ identical data editing and processing procedures, including criteria to identify and delete erroneous data. Both parties will also agree to use an identical data format. Data and metadata (including spatial and temporal ranges, methods, and formatting information) will be delivered to the Science Team at the end of each water year (October 1 through September 30 of the following year) and will be posted on the Help the Hinkson website after an embargo period of 1 year after the end of data collection. The embargo will enable Geosyntec and Lincoln University the opportunity to analyze, interpret, and publish the data.

Map of Sampling Stations



025407

Introduced by Buffaloe  
First Reading 7-17-23 Second Reading 8-1-23  
Ordinance No. 025407 Council Bill No. B 168-23

**AN ORDINANCE**

authorizing an intergovernmental cooperative agreement with Boone County, Missouri and The Curators of the University of Missouri for a water quality monitoring project as it relates to the Hinkson Creek collaborative adaptive management (CAM) implementation process; and fixing the time when this ordinance shall become effective.

BE IT ORDAINED BY THE COUNCIL OF THE CITY OF COLUMBIA, MISSOURI, AS FOLLOWS:

SECTION 1. The City Manager is hereby authorized to execute an intergovernmental cooperative agreement with Boone County, Missouri and The Curators of the University of Missouri for a water quality monitoring project as it relates to the Hinkson Creek collaborative adaptive management (CAM) implementation process. The form and content of the agreement shall be substantially as set forth in "Attachment A" attached hereto and made a part hereof.

SECTION 2. This ordinance shall be in full force and effect from and after its passage.

PASSED this 7th day of August, 2023.

ATTEST:

[Signature]  
City Clerk

Barbara Buffaloe  
Mayor and Presiding Officer

APPROVED AS TO FORM:

[Signature]  
City Counselor

# CERTIFIED COPY OF ORDER

STATE OF MISSOURI

} ea.

September Session of the July Adjourned

Term. 20 23

County of Boone

In the County Commission of said county, on the 5th day of September 20 23

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


Now on this day, the County Commission of the County of Boone does hereby approve the Intergovernmental Cooperation Agreement between the County of Boone, the City of Columbia and The Curators of the University of Missouri as it relates to the collaborative adaptive management process for Hinkson Creek.

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

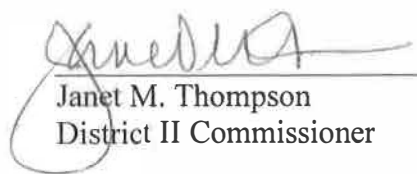
Done this 5<sup>th</sup> day of September 2023.

ATTEST:

  
Brianna L. Lennon  
Clerk of the County Commission

  
Kip Kendrick  
Presiding Commissioner

  
Justin Alford  
District I Commissioner

  
Janet M. Thompson  
District II Commissioner

**INTERGOVERNMENTAL COOPERATIVE AGREEMENT FOR THE HINKSON CREEK CONTINUOUS WATER QUALITY MONITORING PROJECT**

The parties hereto are the City of Columbia, Missouri, a Constitutional charter city of the State of Missouri (the "City"), the County of Boone, a first class non-charter county and political subdivision of the State of Missouri by and through its County Commission (the "County"), and The Curators of the University of Missouri (the "University") and those parties enter this Intergovernmental Cooperative Agreement ("Agreement") effective on the date of signing by the third party executing this Agreement ("Effective Date").

Whereas, the parties entered an Intergovernmental Cooperation Agreement, attached hereto as Exhibit A, on April 2, 2013; and,

Whereas, in that Agreement the parties acknowledged their mutual obligations in certain projects initiated under a Collaborative Adaptive Management (CAM) process emanating from a Municipal Separate Storm Sewer System (MS4) permit issued by the Missouri Department of Natural Resources; and,

Whereas, the parties now wish to agree to the scope and details and costs of a study project known as the "Hinkson Creek Continuous Water Quality Monitoring Project".

Whereas, the County will enter into the contract with Geosyntec Consultants to perform work for the project.

Whereas, the County will provide the City and the University access to all data and deliverables received from the consultant.

NOW, THEREFORE, in consideration of the mutual covenants in this Acknowledgement, the parties agree as follows:


1. The parties agree to the scope and details of the project known as the "Hinkson Creek Continuous Water Quality Monitoring Project" as described in the attached Exhibit B. This project has a total not to exceed amount of \$124,500.00, with each of the parties' total proportionate one-third costs not to exceed \$41,500.00. The proportionate payments shall be subject to the appropriations of each of the parties. Subject to appropriation, the City Finance Director will have the authority to make payment on behalf of the City to the County, after receiving an invoice for the proper amounts as set forth herein. Subject to appropriations, the University and County shall take whatever individual actions they deem appropriate to make payment for the proper amounts as set forth herein.



2. No party may assign or transfer any of its rights or obligations under this Agreement to any other person or entity without the prior, written consent of the other parties.
3. This Agreement is for the sole benefit of the parties, and nothing in this Agreement is intended to confer any rights or remedies on any third party.
4. Nothing in this Agreement will be deemed or construed by the parties, nor by any other entity or person, as creating any principal and agent relationship, or partnership, or joint venture, between the parties.
5. This Agreement will be governed by the laws of the State of Missouri, and any action relating to this Agreement will be brought in the Circuit Court of Boone County, Missouri.
6. The covenants, agreements, and obligations in this Agreement will extend to, bind, and inure to the benefit of the parties and their respective successors and approved assigns.
7. Each person signing this Agreement on behalf of any 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.
8. The parties state that this Agreement, together with its attached Addenda A through B, contains the entire agreement between the parties, and there are no other oral, written, express, or implied promises, agreements, representations, or inducements not specified herein.
9. No Waiver of Sovereign Immunity. In no event shall the language of this Agreement constitute or be construed as a waiver or limitation for any 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 constitution or law.


IN WITNESS WHEREOF the parties hereto have caused this Acknowledgement to be executed by their duly-authorized officers on day and year indicated by their signature below.

BOONE COUNTY, MISSOURI

By:   
Kip Kendrick, Presiding Commissioner

9.5.2023  
Date

ATTEST:

  
Brianna L. Lennon, County Clerk

APPROVED AS TO LEGAL FORM:

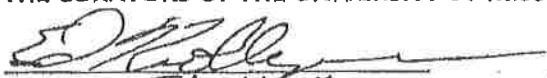
  
C.J. Dykhouse, County Counselor

Boone County Auditor Certification:

I hereby certify that a sufficient, unencumbered appropriation balance exists and is available to satisfy the obligation 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.)

Kyle Rieman by HA 8-16-23  
Kyle Rieman, County Auditor Date

THE CURATORS OF THE UNIVERSITY OF MISSOURI

By: 

Name Ed Krollmeyer

Date 6/9/2023

**CITY OF COLUMBIA, MISSOURI**

By: DocuSigned by:  
*De'Carlton Seewood*  
8306D3D77F3D7430...  
De'Carlton Seewood, City Manager TAS

8/8/2023  
Date

**ATTEST:**

DocuSigned by:  
*Sheela Amin*  
4E1F009B868D40A...  
Sheela Amin, City Clerk

**APPROVED AS TO FORM:**

DocuSigned by:  
*Nancy Thompson* DS  
MC  
DA81636E79084D2...  
Nancy Thompson, City Counselor

I hereby certify that this contract is within the purpose of the appropriation to which it is to be charged, that is, account 55806610-504990 and that there is an unencumbered balance to the credit of such account sufficient to pay therefore.

DocuSigned by:  
*Matthew Lue* DS  
ML  
0032FF4594024EC...  
Matthew Lue, Director of Finance

## INTERGOVERNMENTAL COOPERATION AGREEMENT

This intergovernmental cooperation agreement (the "Agreement") is entered into on this 2<sup>ND</sup> day of APRIL, 2013, by and between the City of Columbia, Missouri, a Constitutional charter city of the State of Missouri (hereinafter referred to as the "City"), and the County of Boone in the State of Missouri (hereinafter referred to as "County"), and The Curators of the University of Missouri (hereinafter referred to as "University"); and may collectively be referred to as the "Parties."

WHEREAS, a Total Maximum Daily Load (TMDL) for Hinkson Creek was issued by the Federal Environmental Protection Agency (EPA) in 2011; and

WHEREAS, the City, County, and University are partners in a Municipal Separate Storm Sewer System (MS4) permit issued by the Missouri Department of Natural Resources, which is affected by the TMDL; and

WHEREAS, the City, County, and University entered into an agreement with the EPA and the Missouri Department of Natural Resources (DNR) to address the TMDL with a Collaborative Adaptive Management (CAM) process; and

WHEREAS, the City, County, and University wish to enter into an agreement with regard to how the Parties will contribute to projects that are initiated in the CAM process to address the TMDL.

NOW, THEREFORE, the parties agree as follows:

- 1 **TYPES OF PROJECTS.** The Parties will contribute to projects which are initiated in the CAM process to address the TMDL for research, study, or monitoring-type projects and for construction projects.

For research, study, or monitoring-type projects, the three entities will each be responsible for one-third of the project cost. The University shall coordinate research, study, or monitoring-type projects on behalf of the parties. Before any research, study, or monitoring-type project is started, the Parties shall agree in writing regarding the scope and details of the project, including a not-to-exceed amount for each project.

For construction projects, each entity will exercise discretion and control over projects and be responsible for the costs of projects conducted on its own property unless otherwise agreed between the parties in writing.

2. **APPROPRIATIONS.** All types of projects shall be subject to the appropriations of the Parties who shall pay for the projects. Subject to these appropriations, the Parties shall each delegate in writing a person who shall be responsible for implementing this agreement and any associated documents or contracts to give this agreement effect.



1300860A


COL. CITY  
CAM PROJ. HINKSON CREEK

3. **TERM.** The effective date of this Agreement is the date the last party executes the Agreement and provides original executed documents to the other Parties. Any of the Parties may terminate this Agreement at any time by providing the other Parties written notice of their intent to terminate at least thirty (30) days in advance of the intended termination date
4. **ASSIGNMENT.** None of the Parties may assign or transfer any of its rights or obligations under this Agreement to any other person or entity without the prior, written consent of the other Parties.
5. **SOLE BENEFIT OF PARTIES.** This Agreement is for the sole benefit of the City, County and University. Nothing in this Agreement is intended to confer any rights or remedies on any third party.
6. **ENTIRE AGREEMENT.** The Parties state that this Agreement contains the entire agreement between the Parties, and there are no other oral, written, express or implied promises, agreements, representations or inducements not specified herein.
7. **AUTHORITY.** The signatories to this Agreement warrant and certify that they have obtained the necessary authority, by resolution or otherwise, to execute this Agreement on behalf of the named party for whom they are signing.

[SIGNATURES ON THE FOLLOWING PAGES]

IN WITNESS WHEREOF, the Parties hereto have been duly authorized to execute this Agreement as of the day and year first above written.

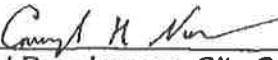
CITY OF COLUMBIA, MISSOURI

By:   
Mike Matthes, City Manager

ATTEST:

  
Sheela Amin, City Clerk

APPROVED AS TO FORM:

  
Fred Boeckmann, City Counselor  
*Cavanaugh Nae*

**BOONE COUNTY, MISSOURI**

By:   
Dan Atwill, Presiding Commissioner

**ATTEST:**

  
Wendy Noren, County Clerk *mg*

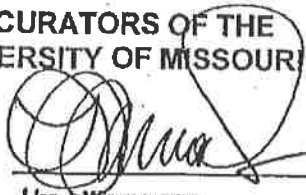
**APPROVED AS TO FORM:**

  
C.J. Dykhouse, County Attorney



THE CURATORS OF THE  
UNIVERSITY OF MISSOURI

By:



Lisa J. Wimmenauer  
Asso. Director, Business Services

ATTEST:

Approved By

---

MAR 05 2013

PJH

General Counsel via EMAIL

163-2013

# CERTIFIED COPY OF ORDER

STATE OF MISSOURI }  
County of Boone } en.

April Session of the April Adjourned

Term. 20 13

In the County Commission of said county, on the 2nd day of April 20 13  
the following, among other proceedings, were had, viz:

Now on this day the County Commission of the County of Boone does hereby approve the Intergovernmental Cooperation Agreement between the County of Boone, the City of Columbia and The Curators of the University of Missouri as it relates to the collaborative adaptive management implementation process for Hinson Creek.

The terms of this Cooperative Contract are stipulated in the attached Intergovernmental Cooperation Agreement. It is further ordered the Presiding Commissioner is hereby authorized to sign said Intergovernmental Cooperation Agreement.

Done this 2nd day of April, 2013.

ATTEST:

Wendy S. Noren  
Wendy S. Noren *my*  
Clerk of the County Commission

[Signature]  
Daniel K. Atwill  
Presiding Commissioner  
[Signature]  
Karen M. Miller  
District I Commissioner  
[Signature]  
Janet M. Thompson  
District II Commissioner



2009 East McCarty St., Suite 1  
Jefferson City, MO 65101  
PH 573.443.4100  
FAX 573.443.4140  
www.geosyntec.com

*VIA EMAIL*

April 1, 2022  
Revised, September 28, 2022

Lynne Hooper  
Urban Hydrologist, Boone County Resource Management (BCRM)  
801 E. Walnut  
Columbia, MO 65201-7732  
[lhooper@boonecountymo.org](mailto:lhooper@boonecountymo.org)

**Subject: Proposal for Hinkson Creek Continuous Water Quality Monitoring**

Dear Ms. Hooper:

This revised proposal addresses the clarifications and decisions made regarding the April 1, 2022 proposal submitted by Geosyntec Consultants, Inc. (Geosyntec) to conduct continuous water quality monitoring on Hinkson Creek. The clarifications include selection of the number of stations, duration of monitoring, and coordination with Dr. Zeiger's ongoing water quality monitoring of Hinkson Creek.

#### **INTRODUCTION AND PURPOSE**

In 2019, Geosyntec assisted the Hinkson Creek Collaborative Adaptive Management (CAM) process by performing an *Environmental Analysis Study: Hinkson Creek Macroinvertebrate Data Mining Project*. Through this project, Geosyntec identified chloride as an aquatic life stressor in Hinkson Creek. Publicly available water quality data indicate attainment of in-stream chloride water quality standard protective of Missouri's aquatic life. However, based on when historic chloride data were collected and other scientific research, chloride data were not believed indicative of potential elevated concentrations during critical periods (winter season). In addition, chloride concentrations in Hinkson Creek were noted to correlate with instream specific conductance. Therefore, continuous specific conductance is a candidate surrogate for continuous chloride monitoring to characterize frequency, magnitude, duration, and travel time of chloride stressors in Hinkson Creek and its tributaries.

Geosyntec provides this proposal to perform continuous water level, water temperature and specific conductance monitoring at six (6) to be determined Hinkson Creek or tributary stations.

09\_28\_2022 Hinkson WQ Monitoring\_ Revised

Ms. Lynne Hooper  
Sep. 28, 2022  
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New Solinst Levellogger 5 level, temperature and conductivity (LTC) instrumentation are proposed for continuous monitoring and will become property of the project's funding entity for subsequent use. **Attachment A** includes the specifications of the Solinst Levellogger 5 LTC instrumentation.

## **SCOPE OF WORK**

The following tasks of field reconnaissance, station deployment, monthly station maintenance and data acquisition, instrumentation removal, and project reporting are proposed for monitoring water quality of Hinkson Creek and its tributaries.

### **Task 1. Reconnaissance**

**Objective:** Geosyntec will visit proposed monitoring station locations to evaluate suitability for instrumentation and the resources (e.g., hardware) for developing semi-fixed continuous water quality monitoring station network in Hinkson Creek or its tributaries.

#### **Activities:**

- Document suitability, specific location, and necessary hardware to establish a semi-fixed water quality monitoring station network.
- Evaluate specific conductance variability of the stream cross-sections (distance and depth).
- One (1) meeting with the Hinkson CAM to finalize selected monitoring stations.
- Procure and prepare necessary instrumentation and installation hardware for Task 2.

#### **Deliverables:**

- Provide field data and site images for each station evaluated for the Hinkson CAM site selection meeting.

#### **Assumptions**

- Prior to reconnaissance, BCRS or Hinkson CAM will select six (6) Hinkson Creek or tributary monitoring stations.
- Budget includes three (3) extra, for a total of nine (9) Solinst Levellogger 5 LTC instruments.
- Recon up to 6 stations in one 8-hour day.
- Two (2) Geosyntec staff per day for station recon.
- New Solinst Levellogger 5 LTC instrumentation will become property of the project's funding entity.

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## **Task 2. Station Installation and Instrumentation Deployment**

**Objective:** In accordance with field reconnaissance data, Geosyntec will deploy six (6) water quality monitoring stations in Hinkson Creek or tributaries with Solinst Levellogger 5 LTC instruments to continuously (every 15-minutes) monitor water temperature, water level and specific conductance. This data collection frequency is consistent with Dr. Zeiger's five (5) monitoring stations in Hinkson Creek.

### **Activities:**

- Calibration of Solinst Levellogger 5 LTC instruments.
- After calibration, compare one (1) Solinst Levellogger 5 LTC instrument to one (1) of Dr. Zeiger's HOBO onset conductivity sensors for confirmation of conductivity values.
- Water quality station installation and instrumentation deployment.

### **Deliverables:**

- If requested, provide field notes and images of each station deployed.

### **Assumptions:**

- Final monitoring station selection will be agreed upon and finalized by BCRM or the Hinkson CAM.
- Data are not transmitted real-time and require manual download (monthly interval).
- Water levels are relative and not established for development of flow rating curve.
- For health and safety purposes, two (2) Geosyntec staff per day of deployment.
- Instrumentation deployment will occur during base flow conditions approximately at the start of the water year (October 1<sup>st</sup>, 2023).
- Dr. Zeiger or representative will be available for Solinst Levellogger 5 LTC and HOBO onset conductivity sensor comparison.
- Monitoring duration will be three (3) years from deployment.

## **Task 3. Station Maintenance and Data Acquisition**

**Objective:** Station maintenance (instrumentation cleaning and calibration) and data retrieval from each station will occur monthly. Downloaded data will be compiled in a continuous database for each station.

### **Activities:**

- Monthly station maintenance (cleaning, calibration/checks) and download data.
- Monthly data compilation and review.

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- Monthly drift corrections, as applicable; quality assurance and quality control reviews; and data validation.

**Deliverables:**

- Monthly maintenance (calibration) data sheets will be provided.
- Quarterly summary report will be provided per station.

**Assumptions:**

- Maintain up to six (6) stations in an 8-hour day.
- Replacement of instruments stolen or damaged from vandalism or flooding will be the responsibility of the funding entity.

**Task 4. Station Removal**

**Objective:** Removal of water quality monitoring instrumentation and installation hardware.

**Activities:**

- Equipment removal and restoration of site to pre-existing conditions.

**Deliverables:**

- No deliverable associated with station removal.

**Assumptions:**

- Remove up to six (6) monitoring stations in an 8-hour day.

**Task 5. Project Reporting and Management**

**Objective:** Database and PowerPoint presentation to the Hinkson Creek CAM summarizing continuous water quality (temperature, level, and specific conductance) data collected.

**Activities:**

- Final raw and validated database.
- Summary of water quality parameters data statistics for the period of monitoring.
- Quarterly and annual timeseries figures of water quality parameters.
- PowerPoint presentation to the Hinkson CAM.
- Monthly project management.

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Sep. 28, 2022  
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**Deliverables:**

- PowerPoint presentation to Hinkson CAM.
- Raw and validated (formulas/code removed) database.

**Assumptions:**

- One (1) Hinkson CAM PowerPoint presentation.
- Electronic water quality database transmittal.

**SCHEDULE**

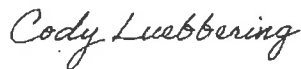
The project will be performed starting approximately October 1, 2023, for a duration of three (3) years.

**PROJECT SUMMARY ESTIMATE**

The estimated cost to complete the proposed scope of work is **\$124,500**. This estimate was developed using projected labor rates and direct costs. Geosyntec has attempted to provide this as a not-to-exceed estimate; however, it may be modified at the time of contracting due to unforeseen circumstances. The project work will be conducted on a time-and-materials basis.

Should you have any questions, please contact Cody Luebbering.

Sincerely,  
Geosyntec Consultants



Cody Luebbering  
Senior Scientist

**ATTACHMENTS**

- A: Solinst Levelogger 5 LTC Specifications
- B: Example Water Quality Calibration Sheet and Instrumentation Servicing Sheet

# Solinst

# Levelogger 5 LTC

[More Info](#) | [Instructions](#) | [Get Quote](#)

Model 3001 Data Sheet

## Levelogger 5 LTC

Level, Temperature, Conductivity

The Levelogger® 5 LTC logs water level, temperature, and conductivity. It combines a datalogger, 8-year battery, Hastelloy® pressure sensor, temperature detector, and conductivity sensor within a small waterproof housing, 22 mm x 208 mm (7/8" x 8.2"). A baked-on coating using polymerization technology protects the body against corrosion, abrasion and high temperatures. The conductivity sensor is a 4-electrode platinum sensor, with autoranging capabilities. The minimal-maintenance, sealed Levelogger 5 LTC is simple to clean and calibrate, even in the field.



# 5

<b>Level Sensor:</b>	Piezoresistive Silicon with Hastelloy Sensor
Ranges:	5, 10, 20, 30, 100, and 200 m
Accuracy:	±0.05% FS
Resolution:	0.001% FS to 0.0006% FS
Units of Measure:	cm, m, ft, psi, kPa, bar (°C, °F)
Normalization:	Automatic Temperature Compensation
Temp Comp. Range:	0°C to 50°C
<b>Temperature Sensor:</b>	Platinum Resistance Temperature Detector (RTD)
Accuracy:	±0.05°C
Resolution:	0.003°C
<b>Conductivity Sensor:</b>	4-Electrode Platinum
Full Range:	0 – 100,000 µS/cm
Calibrated Range:	50 – 80,000 µS/cm
Accuracy:	±1%: 5,000 µS/cm – 80,000 µS/cm; greater of ±2% or 15 µS/cm; 50 µS/cm – 5,000 µS/cm
Resolution:	±0.1 µS/cm
Temp Comp. Range:	0°C – 50°C
Normalization:	Specific Conductance @ 25°C
Battery Life:	8 Years (1 reading every 5 minutes)
Clock Accuracy (typical):	±1 minute/year (-20°C to 80°C)
Operating Temperature:	-20°C to 80°C
Maximum Readings:	100,000 sets of readings
Memory:	Slate or Continuous
Communication:	Optical high-speed: 57,600 bps with USB
Size:	22 mm x 208 mm (7/8" x 8.2")
Weight:	197 grams (6.95 oz)
Corrosion Resistance:	Baked-on coating using polymerization
Wetted Materials:	Platinum, Delrin®, Viton®, 316L Stainless Steel, Hastelloy, Regulator approved PFAS-free PTFE (inside and out)
Sampling Mode:	Linear, Event & User-Selectable with Repeat Mode, Future Start, Future Stop, Real-Time View
Measurement Rates:	2 seconds to 99 hours
Barometric Compensation:	Software Wizard and Barologger 5



## Upgraded Features

- Increased memory: 100,000 sets of data
- More stable communication: single-eye optical, easy to clean, more scratch resistant
- Stronger, robust design: double o-ring seals for two times over pressurization rating
- Better thermistor and conductivity sensitivity: upgraded platinum RTD and conductivity sensor
- Superior protection in harsh conditions: baked-on coating using polymerization—inside and out

## User-Friendly Operation

Software Calibration and Data Wizards guide you through conductivity calibration and barometric compensation, ensuring accurate data sets. The Data Wizard also converts conductivity readings to Specific Conductance (@ 25°C).

Levelogger Software allows you to easily program your preferences, download data, and display data in a graph or table format or export to other programs. Real Time View allows immediate viewing of live water level, conductivity, and temperature readings.

Leveloggers are easy to deploy; install with direct read cables or wireline/cord suspension. The Levelogger 5 LTC is SDI-12 compatible using the Solinst SDI-12 Interface Cable.

Download data in the field using the new Field Reader 5, DataGrabber 5 USB data transfer device, or through Bluetooth® using the Levelogger 5 App Interface and your smart device. Integrate the Levelogger 5 LTC with Solinst Telemetry Systems, which use the latest wireless technologies.

## Levelogger 5 LTC Applications

- Salt water intrusion and soil salination monitoring
- Plume remediation monitoring and studies
- Leachate monitoring at landfills, mine tailings, waste disposal storage sites, and more
- Agricultural and stormwater runoff monitoring
- Create a historical database for potable water supply monitoring
- Tracer tests

LTC Models	Full Scale (FS)	Accuracy	Resolution
M5, C80	5 m (16.4 ft.)	±0.3 cm (0.010 ft.)	0.001% FS
M10, C80	10 m (32.8 ft.)	±0.5 cm (0.016 ft.)	0.0006% FS
M20, C80	20 m (65.6 ft.)	± 1 cm (0.032 ft.)	0.0006% FS
M30, C80	30 m (98.4 ft.)	± 1.5 cm (0.064 ft.)	0.0006% FS
M100, C80	100 m (328.1 ft.)	± 5 cm (0.164 ft.)	0.0006% FS
M200, C80	200 m (656.2 ft.)	± 10 cm (0.328 ft.)	0.0006% FS

High Quality Groundwater and Surface Water Monitoring Instrumentation

# Solinst





## Water Quality Servicing Data Sheet

Sampling Site: \_\_\_\_\_  
Date: \_\_\_\_\_

General Information			
Arrival Time:	Departure Time:	Barometric Pressure (mmHg):	Last Site Visit:
Weather:		Field Crew Members (name):	
Temp (F) (approx.):	Water Depth (ft) (approx.):		

### Site Information

Sonde Readings	Time	Spec. Cond. (uS/cm)	Water Temp. (°C)	DO (mg/L)	DO %	pH
Field Sonde Reading at Time of Arrival						
QA Sonde Readings						
Field Sonde Reading After Cleaning						
Field Sonde Last Three Logged Readings						
Field Sonde Calibration Reading				Initial DO %	Cal DO %	
Field Sonde Post Calibration Reading						
QA Sonde Readings						

Batteries Replaced: Y N	Voltage:
Sonde Logging Active: Y N NA	
Sonde & Probe Condition:	
Run Mode Exited before Sonde Was Disconnected? Y N NA	Field Crew Initials:
Was Unit Running? Y N NA	
Comments:	

**Water Quality Instrumentation Calibration Log**

Project Name: \_\_\_\_\_

Calibration Prior to Field Activities

Handset Model \_\_\_\_\_

Handset ID # \_\_\_\_\_

Date: \_\_\_\_\_ Time: \_\_\_\_\_

Sonde Model \_\_\_\_\_

Sonde ID # \_\_\_\_\_

Person performing calibration: \_\_\_\_\_

	Equipment	Standard Solution	Temperature (°C)	Initial Reading	Final Reading	Units
Dissolved Oxygen	YSI	100.0				% saturation
SP Conductivity	Solinst	1.413				mS/cm
pH (1st point - 7.0)*	YSI	7.0 / 0.0 (±50)				pH/mV (0 ±50)
pH (2nd point - 10.0)*	YSI	10 / -180 (±50)				pH / mV = Δ 155 - 180 of pH 7.0

DO Gain:

YSI barometric pressure reading at time of calibration:

**End of Day Testing After Completion of Field Activities**

Date: \_\_\_\_\_ Time: \_\_\_\_\_

YSI barometric pressure reading at time of check: \_\_\_\_\_

Personnel performing testing: \_\_\_\_\_

	Equipment	Standard Solution	Temperature (°C)	Reading	Difference between standard and reading	Acceptable Range	Units	Out of Range (Y or N)
Dissolved Oxygen	YSI	100.0				90.0-110.0	% saturation	
SP Conductivity	Solinst	1.413				1.342-1.484	mS/cm	
pH (1st point - 7.0)	YSI	7.00				6.8-7.2 / 0.0 ±50	SU	
pH (2nd point - 10.0)	YSI	10.00				9.8-10.2 / Δ 155 - 180 of pH 7.0	SU	

	Standards Lot #	Exp. Date
pH 7.0		
pH 10.0		
SP Conductivity		

## **Hinkson Creek CAM Science Team Recommendation for Specific Conductance Data Logger Deployment**

### **Executive Summary**

Chloride is a known stressor of aquatic life and concentrations exceeding water quality standards have been documented in Hinkson Creek. Although chloride is an apparent cause of impairment in Hinkson Creek, there are likely other physical, chemical, and/or hydrological issues that contribute to aquatic life impairment. Studies on Hinkson Creek have shown that chloride concentrations are about four-times higher than those in reference/control streams. Chloride concentrations in Hinkson Creek tend to increase from upstream to downstream as land use in the watershed transitions from rural to urban. Some of the chloride values that have been measured exceeded water quality criteria levels, indicating toxic chloride events have occurred in Hinkson Creek.

Specific conductance can be defined as the indirect measurement of all dissolved ions in water, measured through electrical conductance. Chloride is one of the dissolved ions measured. Chloride is difficult to measure continuously, complicating the ability to detect peak concentrations as well as long term continuous concentrations. Specific conductance can be measured continuously and cost effectively. Specific conductance can fluctuate greatly in Hinkson Creek during the winter months, indicating water quality is dynamic. Studies show that while elevated chloride levels are most likely to occur during winter months, high concentrations can occur during non-winter periods.

The Science Team recommends deploying six (6) specific conductance sensors, in complement with those deployed by Lincoln University (Dr. Sean Zeiger), for a minimum of three (3) years. The Geosyntec proposal (attached) is for three years. The Science Team believes that three years would be likely to include a range of hydrological events. This will document seasonal variation, track the moving baseline resulting from continued development in the watershed, and assist with identifying tributaries that have the greatest relative contribution of chloride and other dissolved ions.

### **Lincoln University Specific Conductance Monitoring (Dr. Sean Zeiger)**

Utilizing funding not connected to the Hinkson CAM, Dr. Sean Zeiger has installed discharge gages at five (5) sites on Hinkson Creek and plans to deploy specific conductance data loggers at each of the sites.

1. Hinkson Creek near Rogers Road
2. Hinkson Creek near Mexico Gravel Road

3. Hinkson Creek near Walnut
4. Hinkson Creek near Providence
5. Hinkson Creek near Forum

#### Geosyntec Specific Conductance Monitoring

Geosyntec has provided a proposal and budget for the deployment, operation, and maintenance of specific conductance data loggers (attached). The Science Team recommends funding the deployment of data loggers for a minimum of three (3) years at the following sites:

1. Hinkson Creek below I-70
2. Hominy Branch near Moon Valley Road
3. Grindstone Creek near Rock Quarry Road
4. Flat Branch near Stadium or MKT Trail
5. County House Branch below Chapel Hill Road
6. Mill Creek near Scott Boulevard

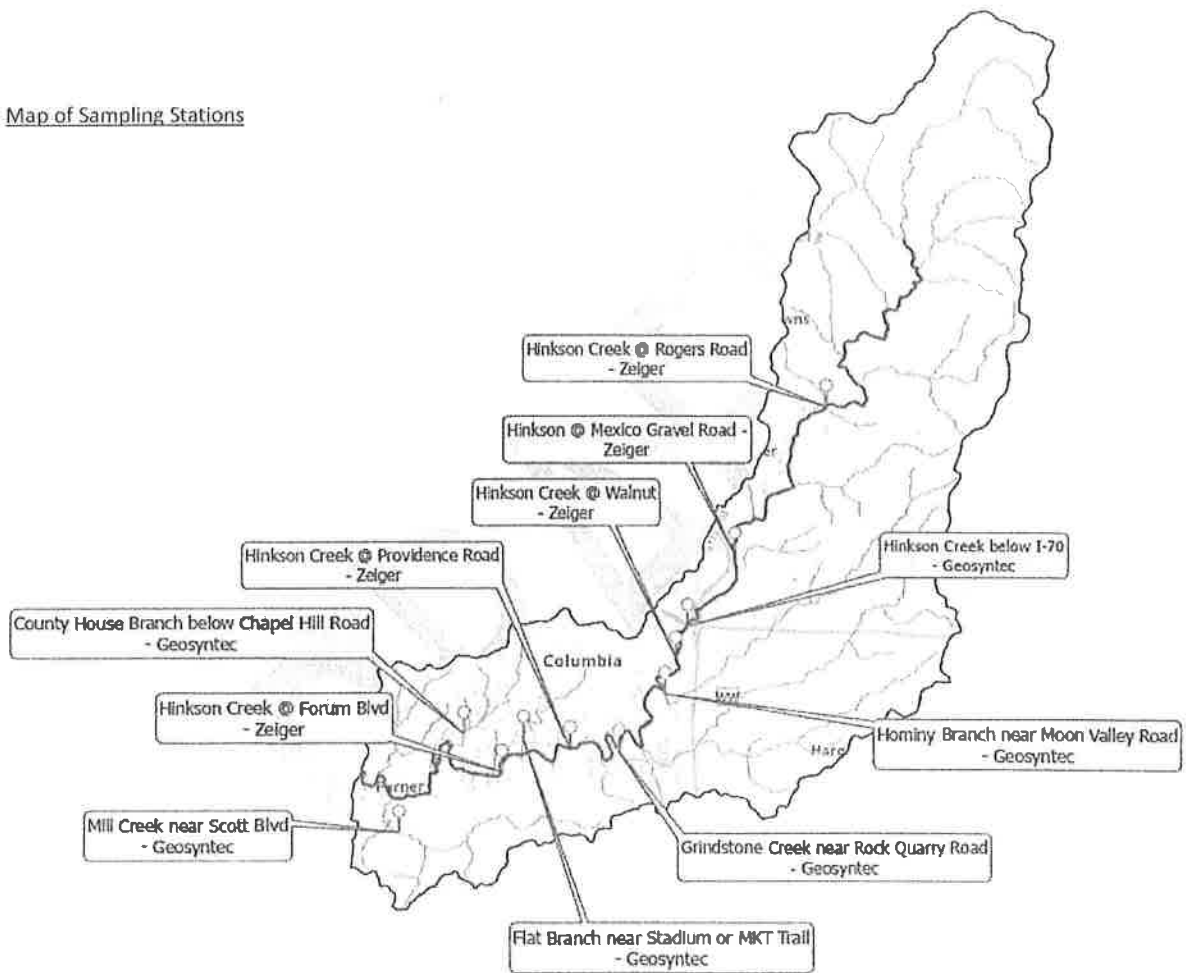
#### Data Management and Analysis

The data acquisition by Geosyntec and Lincoln University are funded by different sources and each come with their own requirements for data management.

In order to assure that data collected by Geosyntec and by Lincoln University are comparable, both parties will calibrate and validate instruments to the same standards and perform maintenance on comparable schedules. It would be beneficial – but not essential – that they both use the same models of specific conductance instruments.

The parties will jointly develop and employ identical data editing and processing procedures, including criteria to identify and delete erroneous data. Both parties will also agree to use an identical data format. Data and metadata (including spatial and temporal ranges, methods, and formatting information) will be delivered to the Science Team at the end of each water year (October 1 through September 30 of the following year) and will be posted on the Help the Hinkson website after an embargo period of 1 year after the end of data collection. The embargo will enable Geosyntec and Lincoln University the opportunity to analyze, interpret, and publish the data.

Map of Sampling Stations



025407

Permanent Record  
Filed in Clerk's Office

Introduced by Buffaloe

First Reading 7-17-23

Second Reading 8-7-23

Ordinance No. 025407

Council Bill No. B 168-23

**AN ORDINANCE**

authorizing an intergovernmental cooperative agreement with Boone County, Missouri and The Curators of the University of Missouri for a water quality monitoring project as it relates to the Hinkson Creek collaborative adaptive management (CAM) implementation process; and fixing the time when this ordinance shall become effective.

BE IT ORDAINED BY THE COUNCIL OF THE CITY OF COLUMBIA, MISSOURI, AS FOLLOWS:

SECTION 1. The City Manager is hereby authorized to execute an intergovernmental cooperative agreement with Boone County, Missouri and The Curators of the University of Missouri for a water quality monitoring project as it relates to the Hinkson Creek collaborative adaptive management (CAM) implementation process. The form and content of the agreement shall be substantially as set forth in "Attachment A" attached hereto and made a part hereof.

SECTION 2. This ordinance shall be in full force and effect from and after its passage.

PASSED this th day of August, 2023.

ATTEST:

[Signature]  
City Clerk

Barbara Buffaloe  
Mayor and Presiding Officer

APPROVED AS TO FORM:

[Signature]  
City Counselor

# CERTIFIED COPY OF ORDER

STATE OF MISSOURI }  
County of Boone } ea.

September Session of the July Adjourned

Term. 20 23

In the County Commission of said county, on the 5th day of September 20 23

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

Now on this day, the County Commission of the County of Boone does hereby approve an agreement with C3 Pathways, Inc. for the Incident Management (SSAVEIM) course for \$19,190 for the Emergency Management department.

The terms of the agreement are set out in the attached contract and the Presiding Commissioner is authorized to sign the same.


Done this 5<sup>th</sup> day of September 2023.

ATTEST:

  
Brianna L. Lennon  
Clerk of the County Commission

  
Kip Kendrick  
Presiding Commissioner

  
Justin Aldred  
District I Commissioner

  
Janet M. Thompson  
District II Commissioner



# Boone County Purchasing

Melinda Bobbitt, CPPO, CPPB  
Director of Purchasing



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

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## MEMORANDUM

TO: Boone County Commission  
FROM: Melinda Bobbitt, CPPO, CPPB  
DATE: September 5, 2023  
RE: Cooperative Contract: C000667 (State of New Jersey cooperative contract 20-PROSV-01171) – SSAVEIM Train-the-Trainer – School Violence with C3 Pathways, Inc.

Boone County Emergency Management Department requests permission to utilize the State of New Jersey cooperative contract 20-PROSV-01171 (County contract # C000667) to purchase specialized training services from C3 Pathways, Inc. of Oviedo, Florida. The initial purchase is for the course SSAVEIM Train-the-Trainer – School Violence.

The **Incident Management (SSAVEIM)** course is an 8-hour performance level direct delivery course designed to improve incident management and response integration of school personnel and emergency responders (law enforcement, fire, EMS) to violent events in schools. This is a model framework for use by school personnel, law enforcement, fire, and EMS to manage violent event response to improve time to threat neutralization, medical intervention, survivability of victims, and reunification of students with parents.

This is a Term and Supply contract. The initial purchase for the SSAVEIM course is \$19,190.00. Invoices will be paid from departments 2702 –Emergency Management Operations, account 71101 – Professional Services. \$36,000 is budgeted.

cc: Contract File  
Della Luster, Christopher Kelley, Emergency Management  
Contract File

**PURCHASE AGREEMENT FOR  
Specialized Training Service  
SSAVEIM Train-the-Trainer Course – School Violence  
Term & Supply**

**THIS AGREEMENT, C000667** dated the 5th day of September 2023 is made between Boone County, Missouri, a political subdivision of the State of Missouri through the Boone County Commission, herein “County” and **C3 Pathways, Inc.**, herein “Vendor.”

**IN CONSIDERATION** of the parties’ performance of the respective obligations contained herein, the parties agree as follows:

1. **Contract Documents** - This agreement shall consist of this Purchase Agreement for a Term and Supply contract for **Specialized Training Services, including SSAVEIM Train-the-Trainer Course – School Violence**, in compliance with all bid specifications and any addendum issued for the State of New Jersey Contract **20-PROSV-01171**, Work Authorization Certification, Boone County Insurance Requirements, and Boone County Standard Terms and Conditions. All such documents shall constitute the contract documents that are incorporated herein by reference. Service or product data, specification, and literature submitted with bid response may be permanently maintained in the County Purchasing Office and/or the State of New Jersey bid file for this bid if not attached. In the event of a conflict between any of the foregoing documents, this Purchase Agreement, Boone County Insurance Requirements, Boone County Standard Terms and Conditions, and the State of New Jersey Contract **20-PROSV-01171** shall prevail and control over the vendor’s bid response.

2. **Purchase** - The County agrees to purchase from the Vendor and the Vendor agrees to supply the County with specialized training services on an as-needed basis. The courses offered are detailed in the attached catalog. The initial order is for the following:

SSAVEIM – Train-the-Trainer Course: \$19,190.00

Recommended Participants:

- 15 Law Enforcement
- 10 Fire / EMS
- 25 School Personnel
- 10 Instructor Trainees

2 Days / 2 Instructors

3. **Contract Duration** - This agreement shall commence on **September 1, 2023 and extend through April 30, 2024**, subject to the provisions for termination specified below. Contract subject to renewal for **one (1) additional one-year period**.

4. **Billing and Payment** - All billing shall be invoiced to the Emergency Management Department and billings may only include the prices listed in the vendor’s bid response. No additional fees for paperwork processing, labor, or taxes shall be included as additional charges in excess of the charges in the Vendor’s bid response to the specifications. The County agrees to pay all monthly statements within thirty days of receipt. In the event of a billing dispute, the County reserves the right

to withhold payment on the disputed amount; in the event, the billing dispute is resolved in favor of the Vendor, the County agrees to pay interest at a rate of 9% per annum on disputed amounts withheld commencing from the last date that payment was due.

5. **Binding Effect** - This agreement shall be binding upon the parties hereto and their successors and assigns for so long as this agreement remains in full force and effect.

6. **Termination** - This agreement may be terminated by the County upon thirty days advance written notice for any of the following reasons or under any of the following circumstances:

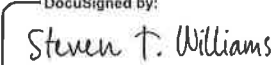
- a. County may terminate this agreement due to material breach of any term or condition of this agreement, or
- b. County may terminate this agreement if in the opinion of the Boone County Commission if delivery of products is delayed or products delivered are not in conformity with bidding specifications or variances authorized by County, or
- c. Termination for Convenience – County may terminate this Agreement for any reason or for no reason upon sixty (60) days’ written notice to contractor.
- d. If appropriations are not made available and budgeted for any calendar year.

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

**C3 PAHTWAYS, INC.**

**BOONE COUNTY, MISSOURI**

by: Boone County Commission

DocuSigned by:  
  
 Steven T. Williams  
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 by \_\_\_\_\_  
 Vice President  
 title \_\_\_\_\_

DocuSigned by:  
  
 Kip Kendrick  
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 Kip Kendrick, Presiding Commissioner

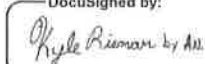
APPROVED AS TO FORM:

ATTEST:

DocuSigned by:  
  
 CJ Dykhous  
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 \_\_\_\_\_  
 CJ Dykhous, County Counselor

DocuSigned by:  
  
 Brianna L. Lennon  
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 Brianna L. Lennon, County Clerk

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.)

DocuSigned by:  
  
 Kyle Riemann by An  
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8/28/2023

2702-71101 Term & Supply  
Initial Order: \$19,190.00

Signature

Date

Appropriation Account