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**A TECHNICAL PROPOSAL TO CONDUCT BAT SURVEY SERVICES FOR
THE WEST VIRGINIA ARMY NATIONAL GUARD'S CAMP DAWSON
ARMY TRAINING SITES NEAR KINGWOOD IN PRESTON COUNTY,
WEST VIRGINIA**

PREPARED BY:
Apogee, Inc.

PREPARED FOR:
Camp Dawson Army Training Site

February 2019

1.0 INTRODUCTION

Apogee, Inc. (Apogee) is submitting this technical proposal to conduct mist-net surveys for the Indiana bat (*Myotis sodalis*) and the northern long-eared bat (*M. septentrionalis*) for Camp Dawson Army National Guard Training Site. Services will include work plan development, bat surveys, radio telemetry, and the development of a scientifically defensible report. Please accept this technical proposal as notice that Apogee is interested in this project.

1.1 Location

The areas to be mist-netted are located on the Camp Dawson Army Training Site near Kingwood located in Preston County, West Virginia.

2.0 PAST PERFORMANCE

Apogee Ecologists have been assisting clients in meeting environmental compliance requirements since the mid-1990's. Our goal at Apogee is to provide our clients the most proficient and cost-effective environmental services available.

2.1 Past Experience in the Eastern U.S.

Apogee ecologists are familiar with the flora, fauna, and abiotic ecosystem components of the eastern United States. Apogee's ecologists have worked on numerous projects both for the public and private sector in many states including West Virginia, Pennsylvania, Kansas, Kentucky, Maryland, Ohio, Indiana, Illinois, Tennessee, Arkansas, Vermont, New York, South Carolina, North Carolina, and Georgia. These projects have included numerous private sector clients involved in energy and linear corridor developments. Government clients have included the Kentucky Department of Fish & Wildlife Resources, state Departments of Transportation, Department of Defense (DOD) bases, and several US Forest Service districts.

Apogee ecologists have a vast knowledge and extensive experience with threatened and endangered bats of the eastern United States including the northern long-eared bat, Indiana bat, Virginia big-eared bat (*Corynorhinus t. virginianus*), and the gray bat (*M. grisescens*). We have conducted numerous projects incorporating mist-net, harp trap, acoustic, and cave surveys coupled with an extensive background in conducting radio tracking for these bat species. Recently our ecologists have conducted linear corridor studies of the Indiana bat and the northern long-eared bat for gas pipeline projects in Pennsylvania, Ohio, West Virginia, and Kentucky and power line projects in West Virginia. Furthermore, our staff has completed endangered bat surveys for the USFS in the Green Mountain National Forest (Vermont), the Wayne National Forest (Ohio), North Carolina Department of Transportation, and the Camp Dawson Collective Training Facility (West Virginia). Most recently Apogee has also completed an extensive Biological Assessment of the federally endangered Indiana bat for a mining permit area in southern West Virginia.

2.2 Past Experience in the Proposed Project Area

In addition to the project experience listed above, Apogee also has extensive project experience in the vicinity of the proposed project. We have completed over 600 nights of survey effort for the Indiana and northern long-eared bat within close proximity to the proposed project area. Recently, we completed a bat survey specifically for the Indiana and northern long-eared bats for a proposed pipeline project that spanned the entire state of Pennsylvania east to west. Aspects of this project included initial habitat analysis, winter

habitat evaluation, agency coordination, summer mist-net and fall portal surveys. During the summer of 2013, Apogee conducted an Indiana bat survey for a proposed pipeline project throughout Pennsylvania, Ohio and Kentucky. These projects included many elements and focused specifically on the Indiana and/or northern long-eared bat. Furthermore, Apogee has conducted hundreds of projects within the Ohio, West Virginia, and Pennsylvania tri-state area with a focus on listed bat species.

2.3 Past Agency Experience

All projects mentioned above in Section 2.2 were coordinated with the appropriate state and federal agencies in West Virginia.

3.0 QUALITY ASSURANCE PLAN

Apogee and our ecologists are held in the highest esteem by the scientific community and can be expected to perform as such. Apogee's President and project coordinators are nationally renowned for their ability to orchestrate and lead large, diverse groups to accomplish demanding, complex tasks. In the highly unlikely event that, at any time, work is not performed to the satisfaction of Camp Dawson or the USFWS, Apogee will take whatever action is needed to store the highest standards of scientific excellence and professional efficiency.

4.0 OBJECTIVE

To conduct a bat survey for the Camp Dawson Army Training Site to determine if the Indiana and/or northern long-eared bats occur on site and to better characterize the species of bats present.

5.0 METHODS

5.1 Acoustic Survey

Apogee will conduct a summer acoustic survey for Indiana and northern long-eared bats. Based on methods as stated in the 2018 Range-wide Indiana Bat Survey Guidelines, the required number of detector nights (dn) for non-linear projects in West Virginia is 8 dn/123 ac. The estimated acreage of the survey areas (Pringle Tract, Briery Tract, and Volkstone Tract) as described in the solicitation amounts to 3,387 acres. Therefore, we propose a total of 224 dn in order to meet current regulatory survey requirements.

Acoustic data will be collected using AnaBat SD2 detectors and processed using BCID East (version 2.7d) on a night/site basis. Any call file identified by BCID as either Indiana bat or northern long-eared bat will initiate a visual examination of all files for that site/night by a properly trained and qualified Apogee biologist. Results produced by BCID as well as the manual vetting will be considered before the presence/probable absence of a species will be determined.

Field work will be dependent on weather conditions as surveys may not be conducted in rain, heavy fog, sustained winds, or temperatures below 50°F.

5.2 Follow-up Mist-Net Survey

Mist-net surveys will only be conducted at sites where Indiana bats or northern-long eared bats have been identified by the acoustic software and verified through manual vetting of the calls by properly trained and qualified Apogee personnel.

Mist-net surveys will be conducted in accordance with the 2018 Range-wide Indiana Bat Survey Guidelines. There is no minimum number of net nights required during this phase according to the 2018 Guidelines, therefore Apogee proposes a minimum of 4 net nights (over 2 calendar nights) of mist-net surveys at each appropriate site.

Mist-nets will be of the finest, lowest visibility mesh that is commercially available, and will be constructed specifically for bats. Nets will be 2 ply, 50 denier nylon which is denoted 50/2; mesh size of the nets will be between 1.25 inch – 1.75 inch. All nets used will be in good condition. The sample period will begin at sunset and continue for at least 5 hours. Each net will be checked approximately every 10 minutes. Each net will be operated for 5 hours each night beginning at dusk.

Mist-nets will be set approximately perpendicular across potential bat travel and/or foraging corridors such as logging/wooded roads, or over areas considered to have a high potential to be used by bats foraging or drinking, such as over waterholes, ponds, road ruts, and portions of streams/creeks. Mist-net sets targeting flyways (e.g., along roads) will fill the corridor from side to side and from the ground up to the overhanging canopy to reduce bat avoidance of nets. Depending on net size, two to three nets stacked may be needed to reach the overhanging canopy in some areas. Nets placed over water need not reach the canopy, but will focus on providing adequate obstruction across the water source that it is difficult for bats to evade the nets while drinking. Nets placed over water will be positioned so that bats caught in the bottom of the net will not be in the water once entangled.

Netting will not be conducted during rain or when nets are wet, in strong winds (nets regularly moving), or when temperatures are below 10°C (50°F). Net nights can have up to one hour of pause/delay time for these conditions in a given night, but still must have five hours of good sampling free from the aforementioned conditions. If five hours cannot be achieved within the first six hours after dusk, the entire night must be resampled.

All work to be accomplished will follow the most recent *National White-Nose Syndrome Decontamination Protocol*.

5.3 Radio Telemetry and Emergence Counts

A qualified biologist who is experienced in handling Indiana and northern long-eared bats and attaching radio transmitters will perform any transmitter attachments. The total weight of the transmitter and adhesive will not exceed 5% of the bat's body weight and will comply with all USFWS and state permits. Transmitters will not be placed on any female Indiana bat that shows signs of obvious pregnancy at any time; transmitters will be placed on lactating females.

Telemetry work will include tracking of bats with transmitters to roost tree(s). Daily radio telemetry searches for roosts will be conducted during daylight hours and will continue until the bat(s) is located or for a minimum of 5 hours of ground-searching per day. Once a signal is detected, tracking will continue until the roost is located. At a minimum, biologists will document all ground-searching effort for all bats not recovered during radio-tracking for submittal with the survey report.

Once roost trees are located, flagging will be placed on trees to assist in later location of roost sites. Data to be collected at these roost sites include, at a minimum: tree species, DBH, and height, GPS location, and habitat description of the immediate area as well as general access directions sufficient to allow the tree to be located by Camp Dawson personnel at a later date. Photos also will be taken of the roost tree, and in the four cardinal directions around the tree.

Two emergence counts will be conducted at each roost tree identified that season. Such counts will begin before dusk and continue until all bats have left the roost; if weather is not conducive to conduct emergence counts during the evening the roost tree is identified (i.e., due to rain or other conditions), a count will be conducted on the next suitable evening following capture, within one week of the identification of the roost tree.

6.0 Report

Once surveys are complete, a report will be prepared documenting the results. A draft of the final report will be submitted to Camp Dawson by September 15, 2019 and a final report by October 15, 2019. Apogee will not disseminate information from this study or copies of the reports to outside parties without written consent of Camp Dawson. The following information will be reported and supplied to Camp Dawson upon completion of project:

7.0 TIMETABLE

Apogee will conduct the proposed project based upon the following timeline:

- Meeting with Camp Dawson environmental personnel will occur within 15 working days after the purchase order has been signed
- Submission of a study plan to USFWS will occur within 15 working days after the initial meeting with Camp Dawson environmental personnel
- Field surveys will occur between May 15th and August 15th
- A draft of the final report will be submitted by September 15th
- A final report will be submitted by October 15th

8.0 COST ESTIMATES

Acoustic Survey

\$33,745.00

Apogee proposes to conduct acoustic surveys at 112 sites for 2 nights each (for a total effort of 224 dn). This price includes site reconnaissance in order to determine detector locations, coordination with USFWS, acoustic data collection and processing, and manual vetting of all calls from sites determined to have a likely presence of Indiana and/or northern long-eared bats as determined by BCID.

Follow-up Mist-net Survey**\$93,735.00**

For the purposes of this estimate, Apogee assumes that follow-up mist net surveys will be required at 34 sites. This price includes coordination with USFWS, and mist-net survey field work. Any additional sites beyond the 34 anticipated here will be subject to a change order determined via discussion with the client.

Radio-telemetry and Emergence Counts**\$24,760.00**

For the purposes of this estimate, Apogee assumes that radio-telemetry and emergence surveys will be required for 4 bats. This price includes 7 days of radio-tracking for each bat for a minimum of 5 hours per day and 2 emergence counts for each roost located. The price for any additional required radio-tracking and emergence counts beyond the anticipated 4 bats anticipated here will be subject to a change order determined via discussion with the client.

Report**\$5,475.00**

This price includes the preparation of a scientifically defensible report as well all required GIS documentation. This includes 2 hard copies and 1 electronic copy of the draft report and 3 hard copies and 1 electronic copy of the final report.

9.9 KEY PERSONNEL

The following Apogee biologists will lead this bat survey as proposed in this study plan

- Principle Scientist – Joel Beverly, M.S. Biology
- Principle Scientist – Grant Maltba, B.S. Environmental Studies
- Project Manager/Ecologist – Wesley Webb, B.S. Biology

Each of these personnel has a vast knowledge and experience working with the Indiana bat and northern long-eared bat. Please see the attached resumes for further info concerning our proposed project managers.

In addition to the personnel listed above, we will also have a number of field biologists working with us who are permitted by USFWS and WVDNR. The primary responsibilities of these biologists are to assist in any needs that the field leaders may have. These people have not been selected yet and thus are not included in the personnel list.

Joel Beverly

President/Principal Scientist

joel@apogee-environmental.com

Background

Mr. Beverly has more than 16 years of project management experience in ecological and environmental services including wetland delineation and jurisdictional determinations. He has been President/Principal Scientist at Apogee for the last 10 years. In his current capacity, Mr. Beverly's responsibilities include client and agency consultation and project oversight.

Vascular Plants of the Eastern United States

Mr. Beverly has conducted and managed ecological field investigations on a variety of projects that have provided him a solid foundation for identifying vascular plants of the eastern United States. Those projects include:

- Large and small transportation
- Private development
- Resource extraction
- Jurisdictional waters determination
- Urban ecology
- Surface Mining Control and Reclamation Act of 1977 (SMCRA) permitting
- Kentucky Pollution Discharge Elimination System (402)
- 404/401 permitting
- Stream and wetland restoration and enhancement projects

Qualifications and Experience with Bats

Mr. Beverly is proficient and experienced in the application of the following equipment and techniques as they relate to capture and handling of bats:

- Bat handling (species level identification and various physical measurements)
 - Mist net site selection, set up, and operation
 - Harp trap site selection, set up, and operation
 - Radio telemetry
 - Estimated 3000+ contact hours performing surveys for listed bat species
 - Application of split-ring metal identification forearm bands
 - Reichard's Wing Damage Index Scoring
 - Suitability assessments for both summer and winter bat habitat
 - Acoustical monitoring and call analysis
 - Hibernacula surveys
 - Autumn portal/cave evaluations and emergence surveys
 - National White-nose Syndrome Decontamination Protocols
-

Indiana Bat Experience

- Captured and processed approximately 50 Indiana bats
- Harp trapping and portal surveys at approximately 400 openings
- Placed radio transmitters on approximately 50 Indiana bats
- Conducted approximately 1,000 hours of radio telemetry (night time foraging and roost tree locations) for the Indiana bat

Northern Long-eared Bat Experience

- Captured and processed an estimated 1,000+ northern long-eared bats

Gray Bat Experience

- Captured and processed an estimated 100+ gray bats
- Performed harp trapping at maternity caves
- Placed transmitters on approximately 10 gray bats
- Conducted approximately 100 hours of radio telemetry on the gray bat

Selected Project Experience

Georgia

- Threatened and Endangered Species review for the proposed Transco Lawrenceville No. 3 Meter Station Project, Gwinnett County, Georgia.

Kentucky

- Mist Net Survey for the Federally Endangered Indiana Bat for the Proposed Bluegrass Pipeline throughout Kentucky.
- A stream restoration plan for a proposed surface mine near Littcarr, Knott County, Kentucky (Application No. 860-0404).
- Wetland Determination for Landmark Mining Company, Floyd County, Kentucky (Application No. 836-0412).
- A stream restoration plan for a proposed surface mine near Harless Creek, Pike County, Kentucky (Application No. 898-0619, Am. 2).
- The diversity, substrata divisions and biogeographical divisions of land snails at Bad Branch Nature Preserve, Letcher County, Kentucky.
- A stream restoration plan for a proposed surface mine near Island City, Owsley County, Kentucky (Application No. 895-0148).
- A stream restoration plan for a proposed surface mine near Bimble, Knox County, Kentucky (Application No. 861-0467).
- A stream restoration plan for a proposed surface mine area near Stinnet, Leslie County, Kentucky (Application No. 866-0289).
- An exploratory survey for the federally threatened blackside dace (*Phoxinus cumberlandensis*) at Blacksnake Branch, Bell County, Kentucky.

Maryland

- Mist Net Survey for the Federally Endangered Indiana Bat and threatened northern long-eared bat for the Proposed Terrapin Hills Wind Project Garrett County, Maryland.

North Carolina

- Summer survey for the federally endangered Indiana bat (*Myotis sodalis*) at a proposed subdivision near Long Branch, Swain County, North Carolina.

Ohio

- Mist Net Survey for the Federally Endangered Indiana Bat and northern long-eared bat for the Proposed Rover Pipeline throughout Ohio.
- Habitat Assessment for the Federally Endangered Indiana Bat and northern long-eared bat for the Proposed Rover Pipeline throughout Ohio.
- Mist Net Survey for the Federally Endangered Indiana Bat for the Proposed Bluegrass Pipeline throughout Ohio.

Pennsylvania

- Mist Net Survey for the Federally Endangered Indiana Bat for the Proposed Bluegrass Pipeline in Pennsylvania
- Habitat analysis for the Federally Endangered Indiana Bat for the Pennsylvania Pipeline Project.
- Mist Net Survey for the Federally Endangered Indiana Bat for the Pennsylvania Pipeline Project
- Mist Net Survey for the Federally Endangered Indiana Bat and northern long-eared bat for the Proposed Rover Pipeline throughout PA.
- Habitat Assessment for the Federally Endangered Indiana Bat and northern long-eared bat for the Proposed Rover Pipeline throughout PA.

Tennessee

- Summer survey for the federally endangered Indiana bat (*Myotis sodalis*) for a proposed commercial development area at Holston Army Ammunition Plant, Hawkins County, Tennessee.
- An exploratory survey for the federally threatened spotfin chub (*Cyprinella monacha*) for the proposed demolition of bridge #20 at Holston Army Ammunition Plant, Hawkins County, Tennessee.
- Mist Net Survey for the Federally Threatened and Endangered bat species for the Holston Army Ammunition Plant Hawkins County, Tennessee.
- Small mammal inventory for the Holston Army Ammunition Plant Hawkins County, Tennessee.

Virginia

- A stream restoration plan at a proposed deep mine area near headwaters of Callahan Creek, Wise County, Virginia (DMLR Application No. 1000876).
- A survey for the federally threatened small whorled pogonia (*Isotria medeoloides*) at a proposed surface mine near Roda, Wise County, Virginia (Division of Mined Land Reclamation # 0102316).
- A survey for the federally threatened small whorled pogonia (*Isotria medeoloides*) at a proposed surface mine near Keokee, Lee County, Virginia (Permit # 1601744, Revision # 9608278).
- A survey for the federally threatened small whorled pogonia (*Isotria medeoloides*) at a proposed surface mine near Exeter, Wise and Lee Counties, Virginia.
- An exploratory survey for the federally threatened blackside dace (*Phoxinus cumberlandensis*) at two stream crossings in Lee County, Virginia.

West Virginia

- Mist Net Survey for the Federally Endangered Indiana Bat and northern long-eared bat for the Proposed Rover Pipeline throughout West Virginia.
- Habitat Assessment for the Federally Endangered Indiana Bat and northern long-eared bat for the Proposed Rover Pipeline throughout West Virginia.
- Summer monitoring for the federally endangered Indiana bat (*Myotis sodalis*) near known maternity colony trees, Boone County, West Virginia.
- Mist Net Survey for the Federally Endangered Indiana Bat for the Proposed Bluegrass Pipeline throughout West Virginia.
- Habitat analysis for the Federally Endangered Indiana Bat for the Pennsylvania Pipeline Project.
- A summer survey for the federally endangered Indiana bat (*Myotis sodalis*) at a proposed residential development near Cunard, Fayette County, West Virginia.
- A summer survey for the federally endangered Indiana bat (*Myotis sodalis*) at two proposed surface mines in Mingo County, West Virginia.
- A summer survey for the federally endangered Indiana bat (*Myotis sodalis*) for a proposed surface mine in Fayette and Raleigh Counties, West Virginia (Permit No. SMA-3001-05).
- A summer survey for the federally endangered Indiana bat (*Myotis sodalis*) at two proposed surface mines in Kanawha County, West Virginia.
- A summer survey for the federally endangered Indiana bat (*Myotis sodalis*) at a proposed impoundment near Anjean, Greenbrier County, West Virginia.
- A winter habitat assessment and summer survey for the federally endangered Indiana bat (*Myotis sodalis*) at a proposed surface mine near Paynter Branch, Wyoming County, West Virginia.

Education

Eastern Kentucky University, Richmond, KY

- Master of Science, Major: Biology/Ecology (2000)
- Bachelor of Science, Major: Wildlife Management (1998)

Professional References

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Grant Maltba

Principal Scientist

grant@apogee-environmental.com

Background

Mr. Maltba has more than 7 years of project experience in ecological and environmental services. In that time, he has conducted and managed ecological field investigations on a variety of different projects from military installation species inventory and monitoring, transportation, transmission lines, renewable energy, coal and aggregate mining, and oil and gas projects. Much of Mr. Maltba's experience is comprised of presence/absence surveys for threatened and endangered bat species (*Myotis sodalis*, *M. septentrionalis*, *M. grisescens*), most of which Mr. Maltba has been the team leader and/or permitted biologist on site. Furthermore, Mr. Maltba has conducted wetland delineations, botanical surveys, eagle and migratory bird surveys, and various other surveys for rare, threatened, and endangered species.

In his current capacity, Mr. Maltba's responsibilities include a variety of duties including project management from acquisition to completion, proposal writing, and completing technical and regulatory reports, such as Biological Assessments and Biological Evaluations in support of Section 7 consultation under the Endangered Species Act, and NEPA (National Environmental Policy Act) documents.

General Experience with Ecological & Environmental Services

Mr. Maltba's field and natural history skills include a variety of taxa and disciplines from:

- Botanical surveys
- Federal and state listed threatened and endangered species surveys
- Habitat assessments
- Eagle and avian use surveys
- Wetland delineations
- Wetland permitting
- Phase 1 and Phase 2 environmental site assessments

Vascular Plants of the Eastern United States

Mr. Maltba has completed numerous classes pertaining to the identification of flora of the eastern United States, including field botany, plant physiology, plant morphology, wetland ecology, plant ecology, and forest ecology. He served as the Park Naturalist for Mount Mitchell State Park in which he was in charge of maintaining and supplementing the park's herbarium. Furthermore, he has conducted ecological field investigations and botanical surveys on a variety of projects throughout the Eastern U.S. that have provided him a solid foundation for identifying and documenting vascular plants and their communities.

Rare, Threatened, and Endangered Species

During his time at Apogee, Mr. Maltba has completed numerous surveys for various rare, threatened, and endangered species. Experience includes surveys for Blanding's turtle, Massasauga rattlesnake, Franklin's ground squirrel, Karner blue butterfly, eastern box turtle, and eastern hellbender.

Qualification and Experience with Bats

Mr. Maltba has conducted approximately 500 summer mist-net surveys and 90 fall portal surveys and is knowledgeable and experienced in the application of the following equipment and techniques as they relate to the detection, capture, and handling of bat species:

- Bat handling (species level identification and various physical measurements)
- Mist-net site selection, set up, and operation
- Harp trap site selection, set up, and operation
- Radio telemetry
- Estimated 5,000 contact hours performing surveys for listed bat species
- Application of split-ring metal forearm identification bands
- Application of radio-transmitters
- Reichard's Wing Damage Index Scoring used for characterizing wing condition of bats affected by white-nose syndrome
- Suitability assessments for both summer and winter bat habitat
- Acoustical monitoring and call analysis
- Hibernacula surveys
- White-nose Syndrome disinfection protocols

Indiana Bat (*Myotis sodalis*) Experience

- Captured and processed 30 *Myotis sodalis*
- Placed radio transmitters on 5 *Myotis sodalis*
- Conducted 400 hours of radio telemetry (night time foraging and roost tree locations) for the Indiana Bat (*Myotis sodalis*)

Northern Long-eared Bat (*Myotis septentrionalis*) Experience

- Captured and processed 200+ *Myotis septentrionalis*
- Placed radio transmitters on one *Myotis septentrionalis*
- Conducted 20 hours of radio telemetry (roost tree locations) for the Northern Long-Eared Bat (*Myotis septentrionalis*)

Gray Bat (*Myotis grisescens*) Experience

- Captured and processed/identified 9 *Myotis grisescens*

Selected Project Experience

West Virginia

- Habitat assessment survey for the proposed Pennsylvania Pipeline Project
- Mist-net survey for the Federally Endangered Indiana Bat for Black Castle Surface Mine in Boone County, WV

- Mist-net survey for the Federally Endangered Indiana Bat for Long Branch Surface Mine in Kanawha and Fayette Counties, WV
- Hibernacula survey for the Federally Endangered Indiana Bat for Long Branch Surface Mine in Kanawha and Fayette Counties, WV
- Mist-net survey for the Federally Endangered Indiana Bat for Blue Pennant Surface Mine in Boone and Raleigh Counties, WV
- Mist-net survey for the Federally Endangered Indiana Bat for Marfork Surface Mine in Raleigh County, WV
- Avian point-counts and occupancy surveys for the Mountain Valley Pipeline throughout VA and WV
- Mist-net survey for threatened and endangered bats on the Rover Pipeline throughout West Virginia

Virginia

- Wetland Survey for a proposed playground site for the City of Dungannon, Scott County, VA
- Northern long-eared bat habitat suitability assessment for an access road and two tap locations in Pittsylvania County, VA
- Botanical survey for small-whorled pogonia for a development property in Richmond County, VA

Ohio

- Wetland Survey for the proposed Pennsylvania Pipeline Project throughout Ohio
- Mist-net survey for threatened and endangered bats on the Rover Pipeline throughout Ohio

Pennsylvania

- Habitat analysis and Mist-net survey for the federally endangered Indiana Bat for the proposed Pennsylvania Pipeline Project
- Mist-net survey for the federally endangered Indiana Bat and northern long-eared bat for the proposed Rover Pipeline throughout Pennsylvania.
- Habitat assessment for the federally endangered Indiana Bat and Northern Long-eared bat for the proposed Rover Pipeline throughout Pennsylvania

Arkansas

- Mist-net survey for threatened and endangered bats on the Clean-Line Transmission Line Project

Illinois

- Mist-net survey for threatened and endangered bats for the Country Mark Pipeline in Marion County, IL

Indiana

- Visual rapid assessment survey for Blanding's turtle at a U.S. Army National Guard Center in LaPorte County, IN
- Massasauga rattlesnake survey and habitat suitability assessment at a U.S. Army National Guard Center in LaPorte County, IN
- Karner blue butterfly survey and habitat suitability assessment at a U.S. Army National Guard Center in LaPorte County, IN
- Franklin's ground squirrel live trapping survey at a U.S. Army National Guard Center in LaPorte County, IN

Tennessee

- Mist-net and acoustic surveys to determine bat community composition at multiple Tennessee Army National Guard facilities in Tennessee and Georgia
- Mist-net survey for threatened and endangered bats on the Clean-Line Transmission Line Project

North Carolina

- Smooth coneflower botanical survey at the Draper M&R Tower site in Rockingham County, NC
- Avian point-count and occupancy survey at the Draper M&R Tower site in Rockingham County, NC

Georgia

- Mist-net survey to determine bat community composition at multiple Tennessee Army National Guard facilities in Tennessee and Georgia
- Threatened and endangered bat habitat suitability assessment for a gas pipeline meter station in Bartow County, GA
- Eagle and avian point count and occupancy survey for a gas pipeline meter station in Bartow County, GA
- Botanical survey for large-flowered skullcap, Tennessee yellow-eyed grass, and white fringeless orchid for a gas pipeline meter station in Bartow County, GA

South Carolina

- Dwarf-flowered heartleaf botanical survey at the Dominion-Moore Meter Station site in Spartanburg County, SC
- Avian point-count and occupancy survey at the Dominion-Moore Meter Station site in Spartanburg County, SC
- Northern long-eared bat habitat suitability assessment at the Dominion-Moore Meter Station site in Spartanburg County, SC
- Eagle and avian point count and occupancy survey at the Dominion-Moore Meter Station site in Spartanburg County, SC
- Bat mist-net surveys to determine species richness at multiple conservation properties located throughout SC

Missouri

- Mist-net and acoustic surveys to determine bat community composition at multiple Missouri Army National Guard facilities

Education

Haywood Community College, Clyde, NC
Associate in Applied Science: Fish and Wildlife Management

Montreat College, Montreat, NC
Bachelor of Science: Environmental Science



Permits

- West Virginia 2017.233 (Bats)
- Illinois 16-044 (Bats)
- Arkansas 042720162 (Bats)
- Ohio 19-067 (Bats)
- Oklahoma 6702
- Missouri 16896 (Bats)
- Virginia 057153 (Bats)
- Tennessee 3834 (Bats)
- Georgia 029 (Bats)
- Kansas SC-081-2016 (Bats)
- Pennsylvania Qualified Bat Surveyor
- USFWS Native Endangered Species Recovery (TE070796-8)

Professional Certifications and Trainings

Mr. Maltba frequently attends professional workshops and meetings to further expand his knowledge of ecological and regulatory processes.

- 38 Hour Army Corps of Engineers Wetland Delineation and Management Training
- 16 Hour Wetland Permitting Training
- ASTM International Phase I and Phase II Environmental Site Assessment Training
- Titley Scientific Acoustic Survey Techniques and Analysis Training
- OSHA 10-Hour
- National Conservation Training Center Conservation Banking Training
- Botanical Consulting for Environmental Review

References

Joel Beverly

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Wesley G. Webb

Staff Ecologist

wes@apogee-environmental.com

Background

Mr. Webb has more than 8 years of project experience in ecological and environmental services. In that time, he has conducted and managed ecological field investigation on a variety of different projects from large and small transportation, private development, natural resource extraction, jurisdictional waters determination, stream/wetland determinations, Kentucky Pollution Discharge Elimination System, 404, 402, and 401 permitting, and stream/wetland restoration and enhancement projects.

In his current capacity, Mr. Webb's responsibilities include a variety of duties from project management from acquisition to completion, and completing technical and regulatory reports, such as Biological Assessments and Biological Evaluations in support of Section 7 consultation under the Endangered Species Act, and NEPA (National Environmental Policy Act) documents.

General Experience with Ecological & Environmental Services

Mr. Webb's field and natural history skills include a variety of taxa and disciplines from:

- Botanical
- Federal and state listed threatened and endangered species surveys
- Stream habitat assessments
- Macroinvertebrate surveys (quantitative, qualitative)
- Freshwater mussel surveys (quantitative, qualitative)
- Fish surveys (seining, electro-shocking, identification)
- Wetland delineations
- Physiochemical water quality sampling
- Terrestrial species surveys

Vascular Plants of the Eastern United States

Mr. Webb has completed numerous classes pertaining to the identification of flora of the eastern United States, including field botany, plant physiology, plant morphology, wetland ecology, plant ecology, and forest ecology. Furthermore, he has conducted ecological field investigations and botanical surveys on a variety of projects throughout the Eastern U.S. that have provided him a solid foundation for identifying and documenting vascular plants and their communities

Rare, Threatened, and Endangered Species

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Qualification and Experience with Bats

Mr. Webb has conducted approximately 500 summer mist-net surveys and 90 fall portal surveys and is knowledgeable and experienced in the application of the following equipment and techniques as they relate to the detection, capture, and handling of bat species:

- Bat handling (species level identification and various physical measurements)
- Mist-net site selection, set up and operation
- Harp trap site selection, set up, and operation
- Radio telemetry
- Estimated 5,000 contact hours performing surveys for listed bat species
- Application of split-ring metal forearm identification bands
- Application of radio-transmitters
- Wing Damage Index Scoring
- Suitability assessments for both summer and winter bat habitat
- Acoustical monitoring and call analysis
- Hibernacula surveys
- Autumn portal/cave evaluations and emergence surveys
- White-nose Syndrome decontamination protocols

Indiana Bat (*Myotis sodalis*) Experience

- Captured and processed 31 *Myotis sodalis*
- Placed radio transmitters on 6 *Myotis sodalis*
- Conducted an estimated 230 hours of radio-telemetry (night-time foraging and roost tree locations) for the Indiana Bat (*Myotis sodalis*)

Hibernacula Surveys at Known Indiana Bat (*Myotis sodalis*) Hibernaculum

- February 2015 conducted census counts at 3 known Indiana bat (*Myotis sodalis*) hibernaculum
- 1191 bats of five species were counted, 974 *Myotis sodalis*, 151 *Perimyotis subflavus*, 53 *Myotis lucifugus*, 12 *Eptesicus fuscus* and 1 *Myotis septentrionalis*
- White-nose syndrome was previously unknown in these 3 hibernacula until this survey

Northern Long-eared Bat (*Myotis septentrionalis*) Experience

- Captured and processed an estimated 75 Northern Long-eared Bats
- Placed radio transmitters on 3 Northern Long-eared Bats
- Conducted 100 hours of radio-telemetry (roost tree locations) for the Northern Long-eared Bat

Gray Bat (*Myotis grisescens*) Experience

- Captured and processed 4 Gray Bats



Selected Project Experience

Tennessee

- Mist-net and acoustic surveys to determine bat community composition at multiple Tennessee Army National Guard facilities in Tennessee and Georgia
- Mist-net survey for threatened and endangered bats on the Clean-Line Transmission Line Project
- Mist-net Survey for the federally threatened and endangered bat species for the Holston Army Ammunition Plant Hawkins County, TN

North Carolina

- Smooth coneflower botanical survey at the Draper M&R Tower site in Rockingham County, NC
- Avian point-count and occupancy survey at the Draper M&R Tower site in Rockingham County, NC

South Carolina

- Dwarf-flowered heartleaf botanical survey at the Dominion-Moore Meter Station site in Spartanburg County, SC
- Avian point-count and occupancy survey at the Dominion-Moore Meter Station site in Spartanburg County, SC
- Northern long-eared bat habitat suitability assessment at the Dominion-Moore Meter Station site in Spartanburg County, SC
- Eagle and avian point count and occupancy survey at the Dominion-Moore Meter Station site in Spartanburg County, SC
- Bat mist-net surveys to determine species richness at multiple conservation properties located throughout SC

Georgia

- Threatened and Endangered Species review for the proposed Transco Lawrenceville No. 3 Meter Station Project, Gwinnett County, Georgia
- Mist-net survey to determine bat community composition at multiple Tennessee Army National Guard facilities in Tennessee and Georgia
- Threatened and endangered bat habitat suitability assessment for a gas pipeline meter station in Bartow County, GA
- Eagle and avian point count and occupancy survey for a gas pipeline meter station in Bartow County, GA
- Botanical survey for large-flowered skullcap, Tennessee yellow-eyed grass, and white fringeless orchid for a gas pipeline meter station in Bartow County, GA

Kentucky

- Mist-net Survey for the Federally Endangered Indiana Bat for the proposed Bluegrass Pipeline throughout KY
- Mist-net Survey for the Federally Endangered Indiana Bat for the proposed Southbound Surface Mine, Morgan County, KY
- Mist-net Survey for the Federally Endangered Indiana Bat for the proposed B&W Surface Mine in Perry/Leslie Counties, KY
- Mist-net Survey for the Federally Endangered Indiana Bat for the Wayland Land

Company Surface Mine in Martin County, KY

- Mist-net Survey for the Federally Endangered Indiana Bat for the proposed MJK Surface Mine, Letcher County, KY
- Mist-net Survey for the Federally Endangered Indiana Bat for the proposed Blue Gem Mine, W hitley County, KY
- Mist-net survey for federally threatened and endangered bats for the proposed B&W surface mine, Knott County, KY

Ohio

- Mist-net Survey for the federally endangered Indiana Bat for the proposed Bluegrass Pipeline throughout Ohio
- Habitat analysis for the federally endangered Indiana Bat for the proposed Bluegrass Pipeline throughout Ohio
- Habitat analysis for the federally endangered Indiana Bat for the proposed Pennsylvania Pipeline Project
- Mist-net survey for federally threatened and endangered bats for the Rover Pipeline throughout Ohio
- Habitat assessment for federally threatened and endangered bats for the Rover Pipeline throughout Ohio

Pennsylvania

- Habitat analysis and Mist-net survey for the federally endangered Indiana Bat for the proposed Pennsylvania Pipeline Project
- Hibernacula survey for the federally endangered Indiana Bat with the Pennsylvania Game Commission
- Mist-net survey for the federally endangered Indiana Bat and northern long-eared bat for the proposed Rover Pipeline throughout PA
- Habitat assessment for the federally endangered Indiana Bat and Northern Long-eared bat for the proposed Rover Pipeline throughout PA
- Habitat analysis for the federally endangered Indiana Bat and Northern Long Eared Bat for the USACE in Indiana and Westmoreland Counties, PA

Indiana

- Visual rapid assessment survey for Blanding's turtle at a U.S. Army National Guard Center in LaPorte County, IN
- Massasauga rattlesnake survey and habitat suitability assessment at a U.S. Army National Guard Center in LaPorte County, IN
- Karner blue butterfly survey and habitat suitability assessment at a U.S. Army National Guard Center in LaPorte County, IN
- Franklin's ground squirrel live trapping survey at a U.S. Army National Guard Center in LaPorte County, IN

Missouri

- Mist-net and acoustic surveys to determine bat community composition at multiple Missouri Army National Guard facilities

Maryland

- Mist-net Survey for the federally endangered Indiana Bat and threatened northern long-eared bat for the Proposed Terrapin Hills Wind Project Garrett County, MD

Michigan

- Mist-net survey for federally threatened and endangered bats for the proposed Gratiot-2 Wind Energy Project

Arkansas

- Mist-net survey for the federally endangered Indiana Bat for the proposed Centerpoint Pipeline Relocation Project
- Mist-net survey for federally threatened and endangered bats for the proposed Cleanline Plains & Eastern project
- Hibernacula survey for the federally endangered Indiana Bat for the proposed Centerpoint Pipeline Relocation Project

Virginia

- Wetland Survey for a proposed playground site for the City of Dungannon, Scott County, VA
- Northern long-eared bat habitat suitability assessment for an access road and two tap locations in Pittsylvania County, VA
- Botanical survey for small-whorled pogonia for a development property in Richmond County, VA

West Virginia

- Potential roost tree locations survey for the proposed Pennsylvania Pipeline Project.
- Mist-net survey for the federally endangered Indiana Bat for Black Castle Surface Mine in Boone County, WV
- Mist-net survey for the federally endangered Indiana Bat for Long Branch Surface Mine in Kanawha and Raleigh Counties, WV
- Mist-net survey for the federally endangered Indiana Bat for Blue Pennant Surface Mine in Boone and Raleigh Counties, WV
- Mist-net survey for the federally endangered Indiana Bat for Marfork Surface Mine in Raleigh County, WV
- Mist-net survey for the federally endangered Indiana Bat for Whitby Surface Mine in Raleigh County, WV
- Mist-net Survey for the federally endangered Indiana Bat and northern long-eared bat for the Proposed Rover Pipeline throughout WV

Illinois

- Habitat analysis for the Federally Endangered Indiana Bat & Northern Long Eared Bat at the Savanna Army Depot, Carroll County, IL
- Mist-net survey for federally threatened and endangered bats for the proposed Country Mark Pipeline Project

Education

Alice Lloyd College – Pippa Passes, KY

- Bachelor of Biology



Professional Certifications and Trainings

Mr. Webb frequently attends professional workshops and meetings to further expand his knowledge of ecological and regulatory processes.

- 38 Hour Army Corps of Engineers Wetland Delineation and Management Training
- 16 Hour Wetland Permitting Training
- Ohio Department of Transportation Ecological Training
- OSHA 10-Hour
- Botanical Consulting for Environmental Review

References

Joel Beverly

President

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(606) 633-7677

joel@apogee-environmental.com

Chance Osborne

President

Encarna, LLC.

(803) 608-2775

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Hans Otto

Mammalogist

Ecology and Evolutionary Biology

University of Arizona

(402) 813-8309

hotto@email.arizona.edu



Purchasing Division
 2019 Washington Street East
 Post Office Box 50130
 Charleston, WV 25305-0130

State of West Virginia
 Request for Quotation
 34 — Service - Prof

Proc Folder: 547217

Doc Description: Addendum 1 - Bat Survey- Camp Dawson

Proc Type: Central Purchase Order

Date Issued	Solicitation Closes	Solicitation No	Version
2019-02-20	2019-02-25 13:30:00	CRFQ 0603 ADJ1900000009	2

BID RECEIVING LOCATION

BID CLERK
 DEPARTMENT OF ADMINISTRATION
 PURCHASING DIVISION
 2019 WASHINGTON ST E
 CHARLESTON WV 25305
 US

VENDOR

Vendor Name, Address and Telephone Number:
 Apogee, Inc. ATTN: Grant Maltba
 2008 Kanawha Blvd. E. Cell Phone: 740-491-4885
 Charleston, WV 25311
 304-344-4579

FOR INFORMATION CONTACT THE BUYER

Stephanie L Gale
 (304) 558-8801
 stephanie.l.gale@wv.gov

Signature X

FEIN # 36-4560000

DATE February 23, 2019

All offers subject to all terms and conditions contained in this solicitation

ADDITIONAL INFORMATION:

Addendum

Addendum No. 1 issued to publish the following:

1. The vendor questions and agency answers.
2. To attach the Endangered Species Management Plan as a PDF.
3. The Executive Summary for years 2013 and 2016

End of Addendum

Request for Quotation
(fauna survey for the Indiana Bat and the Northern Long-Eared Bat)

The West Virginia Purchasing Division is soliciting bids on behalf of West Virginia Army National Guard's Environmental Office to establish a one-time contract providing all professional and technical personnel, labor, facilities, equipment, materials, transportation and supplies needed to perform a critical fauna survey for the Indiana Bat and the Northern Long-Eared Bat at the Camp Dawson Army Training site near Kingwood, in Preston County, WV. per the specifications and Terms and Conditions as attached hereto.

INVOICE TO		BMP TO	
DIVISION ENGINEERING & FACILITIES ADJUTANT GENERALS OFFICE 1707 COONSKIN DR		FACILITY MAINTENANCE MANAGER CAMP DAWSON ARMY TRAINING SITE 240 ARMY RD	
CHARLESTON	WV25311	KINGWOOD	WV 26537-1077
US		US	

Line	Comm Ln Desc	Qty	Unit Issue	Unit Price	Total Price
1	Bat Survey-Camp Dawson Army Training Site	1		\$157,715.00	\$157,715.00

Comm Code	Manufacturer	Specification	Model #
77111507			

Extended Description :

Critical Fauna Survey for the Indiana Bat and the Northern Long-Eared Bat per the attached specifications.

ADJ190000009	Document Phase Final	Document Description Addendum 1 - Bat Survey- Camp Dawson	Page 3 of 3
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ADDITIONAL TERMS AND CONDITIONS

See attached document(s) for additional Terms and Conditions

DESIGNATED CONTACT: Vendor appoints the individual identified in this Section as the Contract Administrator and the initial point of contact for matters relating to this Contract.

Grant Maltba - Principal Scientist

(Name, Title)

Grant Maltba - Principal Scientist

(Printed Name and Title)

2008 Kanawha Blvd. E. Charleston, WV 25311

(Address)

304-344-4579

(Phone Number) / (Fax Number)

grant@apogee-environmental.com

(email address)

CERTIFICATION AND SIGNATURE: By signing below, or submitting documentation through wvOASIS, I certify that I have reviewed this Solicitation in its entirety; that I understand the requirements, terms and conditions, and other information contained herein; that this bid, offer or proposal constitutes an offer to the State that cannot be unilaterally withdrawn; that the product or service proposed meets the mandatory requirements contained in the Solicitation for that product or service, unless otherwise stated herein; that the Vendor accepts the terms and conditions contained in the Solicitation, unless otherwise stated herein; that I am submitting this bid, offer or proposal for review and consideration; that I am authorized by the vendor to execute and submit this bid, offer, or proposal, or any documents related thereto on vendor's behalf; that I am authorized to bind the vendor in a contractual relationship; and that to the best of my knowledge, the vendor has properly registered with any State agency that may require registration.

Apogee, Inc.

(Company)



Principal Scientist

(Authorized Signature) (Representative Name, Title)

Grant Maltba, Principal Scientist

(Printed Name and Title of Authorized Representative)

February 23, 2019

(Date)

304-344-4579

(Phone Number) (Fax Number)

**ADDENDUM ACKNOWLEDGEMENT FORM
SOLICITATION NO.:**

Instructions: Please acknowledge receipt of all addenda issued with this solicitation by completing this addendum acknowledgment form. Check the box next to each addendum received and sign below. Failure to acknowledge addenda may result in bid disqualification.

Acknowledgment: I hereby acknowledge receipt of the following addenda and have made the necessary revisions to my proposal, plans and/or specification, etc.

Addendum Numbers Received:
(Check the box next to each addendum received)

- | | |
|--|--|
| <input checked="" type="checkbox"/> Addendum No. 1 | <input type="checkbox"/> Addendum No. 6 |
| <input type="checkbox"/> Addendum No. 2 | <input type="checkbox"/> Addendum No. 7 |
| <input type="checkbox"/> Addendum No. 3 | <input type="checkbox"/> Addendum No. 8 |
| <input type="checkbox"/> Addendum No. 4 | <input type="checkbox"/> Addendum No. 9 |
| <input type="checkbox"/> Addendum No. 5 | <input type="checkbox"/> Addendum No. 10 |

I understand that failure to confirm the receipt of addenda may be cause for rejection of this bid. I further understand that any verbal representation made or assumed to be made during any oral discussion held between Vendor's representatives and any state personnel is not binding. Only the information issued in writing and added to the specifications by an official addendum is Abinding.

Apogee, Inc.

Company



Authorized Signature

February 23, 2019

Date

NOTE: This addendum acknowledgment should be submitted with the bid to expedite document processing.

EXHIBIT A
Pricing Page

ALL LABOR, MATERIALS, EQUIPMENT, AND SUPPLIES NECESSARY TO CONDUCT CRITICAL FAUNA SURVEY FOR THE INDIANA BAT AND NORTHERN LONG-EARED BAT, ON CAMP DAWSON ARMY TRAINING SITE AT KINGWOOD, WV

The undersigned, hereafter called the Bidder, being familiar with and understanding the bidding documents; and being familiar with the required qualifications and the mandatory requirements of the Project with regards to the deliverables and associated timelines, hereby proposes to furnish labor, material, equipment, supplies, and transportation to perform the work as described in the bidding documents

BIDDERS COMPANY NAME: Apogee, Inc.

VENDOR ADDRESS: 2008 Kanwha Blvd. E., Charleston, WV 25311

TELEPHONE: 304-355-4579

FAX NUMBER: 606-632-2626

E-MAIL ADDRESS: grant@apogee-environmental.com

TOTAL BID AMOUNT:

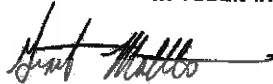
One hundred fifty-seven thousand seven hundred and fifteen dollars

(\$ 157,715.00

(Contract bid to be written in words and numbers.)

Failure to use this bid form may result in bid disqualification.

SIGNATURE:



DATE: February 23, 2019

NAME:

Grant Maltba

(Please Print)

TITLE:

Principal Scientist

STATE OF WEST VIRGINIA
Purchasing Division

PURCHASING AFFIDAVIT

CONSTRUCTION CONTRACTS: Under W. Va. Code § 5-22-1(i), the contracting public entity shall not award a construction contract to any bidder that is known to be in default on any monetary obligation owed to the state or a political subdivision of the state, including, but not limited to, obligations related to payroll taxes, property taxes, sales and use taxes, fire service fees, or other fines or fees.

ALL CONTRACTS: Under W. Va. Code §5A-3-10a, no contract or renewal of any contract may be awarded by the state or any of its political subdivisions to any vendor or prospective vendor when the vendor or prospective vendor or a related party to the vendor or prospective vendor is a debtor and: (1) the debt owed is an amount greater than one thousand dollars in the aggregate; or (2) the debtor is in employer default.

EXCEPTION: The prohibition listed above does not apply where a vendor has contested any tax administered pursuant to chapter eleven of the W. Va. Code, workers' compensation premium, permit fee or environmental fee or assessment and the matter has not become final or where the vendor has entered into a payment plan or agreement and the vendor is not in default of any of the provisions of such plan or agreement.

DEFINITIONS:

"Debt" means any assessment, premium, penalty, fine, tax or other amount of money owed to the state or any of its political subdivisions because of a judgment, fine, permit violation, license assessment, defaulted workers' compensation premium, penalty or other assessment presently delinquent or due and required to be paid to the state or any of its political subdivisions, including any interest or additional penalties accrued thereon.

"Employer default" means having an outstanding balance or liability to the old fund or to the uninsured employers' fund or being in policy default, as defined in W. Va. Code § 23-2c-2, failure to maintain mandatory workers' compensation coverage, or failure to fully meet its obligations as a workers' compensation self-insured employer. An employer is not in employer default if it has entered into a repayment agreement with the Insurance Commissioner and remains in compliance with the obligations under the repayment agreement.

"Related party" means a party, whether an individual, corporation, partnership, association, limited liability company or any other form or business association or other entity whatsoever, related to any vendor by blood, marriage, ownership or contract through which the party has a relationship of ownership or other interest with the vendor so that the party will actually or by effect receive or control a portion of the benefit, profit or other consideration from performance of a vendor contract with the party receiving an amount that meets or exceeds five percent of the total contract amount.

AFFIRMATION: By signing this form, the vendor's authorized signer affirms and acknowledges under penalty of law for false swearing (W. Va. Code §61-5-3) that: (1) for construction contracts, the vendor is not in default on any monetary obligation owed to the state or a political subdivision of the state, and (2) for all other contracts, that neither vendor nor any related party owe a debt as defined above and that neither vendor nor any related party are in employer default as defined above, unless the debt or employer default is permitted under the exception above.

WITNESS THE FOLLOWING SIGNATURE:

Vendor's Name: Apogee, Inc.

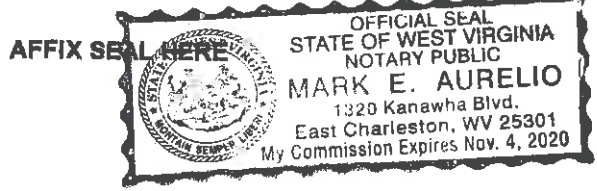
Authorized Signature: *Michael...* Date: February 25, 2019

State of West Virginia

County of Kanawha, to-wit:

Taken, subscribed, and sworn to before me this 25 day of February, 2019.

My Commission expires 11/4/2020



NOTARY PUBLIC *M. Aurelio*

