

PROPOSAL  
for  
INVASIVE SPECIES & VEGETATION MAPPING  
CAMP DAWSON  
WEST VIRGINIA ARMY NATIONAL GUARD (WVANG)



**ALLSTAR ECOLOGY**  
Natural Resource Specialists

05/04/16 09:27:53  
WV Purchasing Division

Prepared for:

Camp Dawson Natural Resources

WVANG Environmental Office

Contractor License: WV046329

05/02/16

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### Contact information:

AllStar Ecology LLC.  
1582 Meadowdale Road  
Fairmont, WV 26554

Primary Contact: Ryan Ward  
Cell: 304-692-7477  
Office: 304-816-3490  
Website: [www.allstarecology.com](http://www.allstarecology.com)  
Email: [ryan@allstarecology.com](mailto:ryan@allstarecology.com)

FEIN Number: 26-1557130  
Contractor License: WV046329

Total Price: \$35,755.00

## **Section 1.0 – Completed Signed Quotation**





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

State of West Virginia  
 Request for Quotation

Proc Folder: 205124

Doc Description: INVASIVE SPECIES SURVEY- CAMP DAWSON

Proc Type: Central Purchase Order

Date Issued	Solicitation Closes	Solicitation No	Version
2016-04-01	2016-04-28 13:30:00	CRFQ 0603 ADJ1600000021	1

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

**VENDOR**  
 Vendor Name, Address and Telephone Number:  
 AllStar Ecology, LLC  
 1582 Meadowdale Rd  
 Fairmont, WV 26554  
 304-816-3490

**FOR INFORMATION CONTACT THE BUYER**  
 Crystal Rink  
 (304) 558-2402  
 crystal.g.rink@wv.gov

Signature X *Ryan L Ward* FEIN # 26-1557130 DATE 5/2/2016

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

**ADDITIONAL INFORMATION:**

THE STATE OF WEST VIRGINIA PURCHASING DIVISION FOR THE AGENCY, THE WEST VIRGINIA ARMY NATIONAL GUARD'S CAMP DAWSON ARMY TRAINING SITE'S ENVIRONMENTAL OFFICE, IS SOLICITING BIDS TO ESTABLISH A CONTRACT FOR THE ONE-TIME PURCHASE FOR ALL PROFESSIONAL, TECHNICAL, PERSONNEL, LABOR, FACILITIES, EQUIPMENT, MATERIALS, TRANSPORTATION, AND SUPPLIES NEEDED FOR AN INVASIVE SPECIES INVENTORY AND ASSESSMENT AND UPDATE OF THE PLANT COMMUNITY MAPPING AT CAMP DAWSON PER THE ATTACHED.

INVOICE TO		SHIP 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	Invasive Species Survey-Camp Dawson	1		\$35,755	\$35,755

Comm Code	Manufacturer	Specification	Model #
77111507			

**Extended Description :**

Invasive Species Survey Inventory and Assessment, and Update of the Plant Community Mapping Data per the attached specifications.

**SCHEDULE OF EVENTS**

Line	Event	Event Date
1	VENDOR QUESTION DEADLINE	2016-04-15

ADJ160000021	<b>Document Phase</b> Draft	<b>Document Description</b> INVASIVE SPECIES SURVEY- CAMP DAWSON	<b>Page 3</b> <b>of 3</b>
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**ADDITIONAL TERMS AND CONDITIONS**

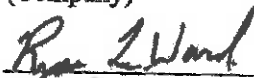
See attached document(s) for additional Terms and Conditions

**CERTIFICATION AND SIGNATURE PAGE**

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.

AllStar Ecology, LLC

(Company)



Ryan L. Ward, Member

(Authorized Signature) (Representative Name, Title)

(304-816-3490), (866-213-2666), 05/02/2016

(Phone Number) (Fax Number) (Date)

**ADDENDUM ACKNOWLEDGEMENT FORM**  
**SOLICITATION NO.: CRFQ ADJ1600000021**

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 checked="" 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 binding.

AllStar Ecology, LLC

\_\_\_\_\_  
Company

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

05/02/2016  
\_\_\_\_\_  
Date

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



**REQUEST FOR QUOTATION**  
**CRFQ ADJ1600000021**  
**Invasive Species Inventory & Assessment, Update of Plant Community Mapping Data on**  
**Camp Dawson Army Training Site**  
**Kingwood, WV (Preston Co.)**

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**11. MISCELLANEOUS:**

**11.1. Contract Manager:** During its performance of this Contract, Vendor must designate and maintain a primary contract manager responsible for overseeing Vendor's responsibilities under this Contract. The Contract manager must be available during normal business hours to address any customer service or other issues related to this Contract. Vendor should list its Contract manager and his or her contact information below.

**Contract Manager:** Ryan Ward  
**Telephone Number:** 304-692-7477  
**Fax Number:** 866-213-2666  
**Email Address:** ryan@allstarecology.com

**EXHIBIT A**  
**CRFQ # ADJ160000021**

ALL LABOR, MATERIALS, EQUIPMENT, AND SUPPLIES NECESSARY TO CONDUCT AN INVASIVE SPECIES INVENTORY AND ASSESSMENT AND TO UPDATE PLANT COMMUNITY MAPPING DATA, ON CAMP DAWSON ARMY TRAINING SITE AT KINGWOOD, WV

**BID FORM**

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: AllStar Ecology, LLC  
VENDOR ADDRESS: 1582 Meadowdale Rd  
Fairmont, WV 26554  
  
TELEPHONE: 304-816-3490  
FAX NUMBER: 866-213-2666  
E-MAIL ADDRESS: ryan@allstarecology.com


**CONTRACT TOTAL BID:**

thirty-five thousand and seven hundred and fifty-five dollars and no cents

(\$ 35,755 ) \*\*\* (Contract bid to be written in words and numbers.)

The contract will be awarded to the Bidder with the lowest contract total bid meeting all of the specifications. Bidder understands that to the extent allowed by the West Virginia Code, the OWNER reserves the right to waive any informality or irregularity in any bid, or bids, and to reject any and all bids in whole or in part; to reject a bid not accompanied by the required bid security or by other data required by the bidding documents; to reject any conditions of the bid by the Bidder that is any way inconsistent with the requirements, terms, and conditions of the bidding documents; or to reject a bid that is in any way incomplete or irregular.

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

SIGNATURE:  DATE: 5/2/2016  
NAME: Ryan L. Ward  
(Please Print)  
TITLE: Member

State of West Virginia  
**VENDOR PREFERENCE CERTIFICATE**

Certification and application\* is hereby made for Preference in accordance with *West Virginia Code*, §5A-3-37. (Does not apply to construction contracts). *West Virginia Code*, §5A-3-37, provides an opportunity for qualifying vendors to request (at the time of bid) preference for their residency status. Such preference is an evaluation method only and will be applied only to the cost bid in accordance with the *West Virginia Code*. This certificate for application is to be used to request such preference. The Purchasing Division will make the determination of the Vendor Preference, if applicable.

1. **Application is made for 2.5% vendor preference for the reason checked:**  
 Bidder is an individual resident vendor and has resided continuously in West Virginia for four (4) years immediately preceding the date of this certification; or,  
 Bidder is a partnership, association or corporation resident vendor and has maintained its headquarters or principal place of business continuously in West Virginia for four (4) years immediately preceding the date of this certification; or 80% of the ownership interest of Bidder is held by another individual, partnership, association or corporation resident vendor who has maintained its headquarters or principal place of business continuously in West Virginia for four (4) years immediately preceding the date of this certification; or,  
 Bidder is a nonresident vendor which has an affiliate or subsidiary which employs a minimum of one hundred state residents and which has maintained its headquarters or principal place of business within West Virginia continuously for the four (4) years immediately preceding the date of this certification, or,
2. **Application is made for 2.5% vendor preference for the reason checked:**  
 Bidder is a resident vendor who certifies that, during the life of the contract, on average at least 75% of the employees working on the project being bid are residents of West Virginia who have resided in the state continuously for the two years immediately preceding submission of this bid; or,
3. **Application is made for 2.5% vendor preference for the reason checked:**  
 Bidder is a nonresident vendor employing a minimum of one hundred state residents or is a nonresident vendor with an affiliate or subsidiary which maintains its headquarters or principal place of business within West Virginia employing a minimum of one hundred state residents who certifies that, during the life of the contract, on average at least 75% of the employees or Bidder's affiliate's or subsidiary's employees are residents of West Virginia who have resided in the state continuously for the two years immediately preceding submission of this bid, or,
4. **Application is made for 5% vendor preference for the reason checked:**  
 Bidder meets either the requirement of both subdivisions (1) and (2) or subdivision (1) and (3) as stated above; or,
5. **Application is made for 3.5% vendor preference who is a veteran for the reason checked:**  
 Bidder is an individual resident vendor who is a veteran of the United States armed forces, the reserves or the National Guard and has resided in West Virginia continuously for the four years immediately preceding the date on which the bid is submitted, or,
6. **Application is made for 3.5% vendor preference who is a veteran for the reason checked:**  
 Bidder is a resident vendor who is a veteran of the United States armed forces, the reserves or the National Guard, if, for purposes of producing or distributing the commodities or completing the project which is the subject of the vendor's bid and continuously over the entire term of the project, on average at least seventy-five percent of the vendor's employees are residents of West Virginia who have resided in the state continuously for the two immediately preceding years.
7. **Application is made for preference as a non-resident small, women- and minority-owned business, in accordance with *West Virginia Code* §5A-3-59 and *West Virginia Code of State Rules*.**  
 Bidder has been or expects to be approved prior to contract award by the Purchasing Division as a certified small, women- and minority-owned business.

Bidder understands if the Secretary of Revenue determines that a Bidder receiving preference has failed to continue to meet the requirements for such preference, the Secretary may order the Director of Purchasing to: (a) reject the bid; or (b) assess a penalty against such Bidder in an amount not to exceed 5% of the bid amount and that such penalty will be paid to the contracting agency or deducted from any unpaid balance on the contract or purchase order.

By submission of this certificate, Bidder agrees to disclose any reasonably requested information to the Purchasing Division and authorizes the Department of Revenue to disclose to the Director of Purchasing appropriate information verifying that Bidder has paid the required business taxes, provided that such information does not contain the amounts of taxes paid nor any other information deemed by the Tax Commissioner to be confidential.

Under penalty of law for false swearing (*West Virginia Code*, §61-5-3), Bidder hereby certifies that this certificate is true and accurate in all respects; and that if a contract is issued to Bidder and if anything contained within this certificate changes during the term of the contract, Bidder will notify the Purchasing Division in writing immediately.

Bidder: AllStar Ecology, LLC

Signed: Ryan L. Ward

Ryan L. Ward

Date: 05/02/2016

Title: Member

STATE OF WEST VIRGINIA  
Purchasing Division

**PURCHASING AFFIDAVIT**

**MANDATE:** 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 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: AMStar Ecology, LLC

Authorized Signature: [Signature] Date: 05/02/2016

State of West Virginia

County of preston, to-wit:

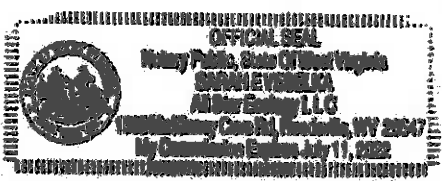
Taken, subscribed, and sworn to before me this 2 day of May, 2016.

My Commission expires July 11, 2022

**AFFIX SEAL HERE**

**NOTARY PUBLIC**

[Signature]  
Purchasing Affidavit (Revised 07/01/2012)





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

**State of West Virginia  
 Request for Quotation**

Proc Folder: 205124

Doc Description: ADDENDUM 1 INVASIVE SPECIES SURVEY- CAMP DAWSON

Proc Type: Central Purchase Order

Date Issued	Solicitation Closes	Solicitation No	Version
2016-04-04	2016-04-28 13:30:00	CRFQ 0603 ADJ1600000021	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:

AllStar Ecology, LLC  
 1582 Meadowdale Rd  
 Faimont, WV 26554  
 304-816-3490

**FOR INFORMATION CONTACT THE BUYER**

Crystal Rink  
 (304) 558-2402  
 crystal.g.rink@wv.gov

Signature X

FEIN # 26-1557130

DATE 05/02/2016

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

ADJ1600000021	<b>Document Phase</b> Draft	<b>Document Description</b> ADDENDUM 1 INVASIVE SPECIES SURVEY- CAMP DAWSON	<b>Page 3</b> of 3
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**ADDITIONAL TERMS AND CONDITIONS**

See attached document(s) for additional Terms and Conditions

**ADDENDUM ACKNOWLEDGEMENT FORM**  
**SOLICITATION NO.: ADJ160000021**

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AllStar Ecology, LLC

Company



Ryan L. Ward, Member

Authorized Signature

05/02/2016

Date

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

Revised 6/8/2012



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

State of West Virginia  
 Request for Quotation

Proc Folder: 205124

Doc Description: ADDENDUM 2 INVASIVE SPECIES SURVEY- CAMP DAWSON

Proc Type: Central Purchase Order

Date Issued	Solicitation Closes	Solicitation No	Version
2016-04-26	2016-05-04 13:30:00	CRFQ 0603 ADJ1600000021	3

**BID RECEIVING LOCATION**

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

**VENDOR**

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Crystal Rink  
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ADJ160000021	<b>Document Phase</b> Draft	<b>Document Description</b> ADDENDUM 2 INVASIVE SPECIES SURVEY- CAMP DAWSON	<b>Page 3</b> of 3
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AllStar Ecology, LLC

\_\_\_\_\_  
Company

 Ryan L. Ward, Member

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

05/02/2016

\_\_\_\_\_  
Date

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

Revised 6/8/2012

## Section 2.0 – Technical Proposal

### Invasive Species Mapping

ASE uses Trimble Geo 7X mapping grade GPS Units to collect field data. As requested per the Invasive Species Management Plan, the following species will be targeted for mapping using meandering transects.

- Multiflora rose (*Rosa multiflora*)
- Japanese knotweed (*Polygonum cuspidatum*)
- Autumn olive (*Elaeagnus umbellata*)
- Japanese stilt grass (*Microstegium vimineum*)
- Tree-of-Heaven (*Ailanthus altissima*)
- Oriental bittersweet (*Celastrus orbiculatus*)
- Morrow's honeysuckle (*Lonicera morrowii*)
- Winged burning bush (*Euonymus alata*)
- European privet (*Ligustrum vulgare*)
- Wintercreeper euonymus (*Euonymus fortunei*)
- Japanese spirea (*Spirea japonica*)
- Japanese honeysuckle (*Lonicera japonica*)
- English ivy (*Hedera helix*)
- Mile-a-minute (*Polygonum perfoliatum*)
- Giant knotweed (*Fallopia sachalinensis*)

### Verifying Species Locations

Botanists with experience and on the certified list maintained by USFWS and WVDNR will be utilized to monitor the known occurrences and populations of RTE species using the locations provided by Camp Dawson Environmental Personnel.

### GIS Mapping

ASE GIS specialists will prepare all mapping data per the requirements in the RFQ. Groundtruthing will be conducted by qualified botanist and foresters. All data will be prepared per the guidance included in the RFQ.

### Section 3.0 – Past Experience

As a West Virginia-licensed general engineering and excavation contractor, ASE is one of the Mid-Atlantic region's leaders in environmental consulting, ecological design, and planning of environmental restoration, compensatory mitigation, and habitat enhancement/creation projects. From stream channel design and bank stabilization enhancement to wetland creation and restoration projects, the experienced staff at ASE take pride in the attention to detail required for projects replacing or enhancing natural ecological systems.

ASE has performed the construction of several stream and wetland restoration projects throughout the Mid-Atlantic region. ASE has knowledgeable staff with training and experience implementing a variety of natural stream design and wetland restoration methods. As a local company ASE has good standing relations with several construction suppliers in the area. This interaction coupled with a wide breadth of experience allows ASE to be more competitive than most companies in regards to lower price and faster project turnaround.

The employees at ASE are experts in various natural resource fields. Whether you need a botanist or a specialized wildlife ecologist/biologist to survey for rare and threatened species or a wetland delineator and macroinvertebrate specialist to satisfy permit conditions, ASE has a member on staff with the expertise and enthusiasm to get the job done.

ASE is a leader in wetland and stream delineations. The turnaround time on site evaluations allows clients to plan avoidance or mitigation measures at the outset, saving time and money. Our highly trained staff specializes in quality and timely data collection required to quickly work through State and Federal permitting hurdles. We thoroughly understand the regulatory process including the permitting requirements and options as they pertain to compensatory mitigation. Research backgrounds in wetland and stream ecosystems enable us to provide attention-to-detail turnkey services including the design and implementation of any necessary mitigation. ASE offers solutions to help our clients make the most of their ecological assets.





### **Federal Building Expansion Stream and Wetland Mitigation Construction**

ASE constructed onsite compensatory mitigation for a new federal facility in Hazelton, WV. The project included several types of mitigation activities. Splash pools and a diversion ditch for existing stormwater were constructed to repair significant erosion at the site. Wetland mitigation included 1.89 acres of forested wetland creation (4 separate cells), 0.86 acres of wetland enhancement (emergent to forested), and 0.54 acres of streamside wetland creation (3 separate cells). Stream mitigation activities included 2,509 linear feet of stream channel relocation/restoration of a high gradient channel which included over 100 stone and log structures, coir matting, livestakes. The project area received tree and shrub plantings. ASE worked extensively with the project engineer and contractor to adapt the construction and design to achieve project goals yet save the contractor money. ASE was able to reduce the overall cost of the project by 15%.



### **Carlos Mine Stream Mitigation Construction**

ASE provided oversight for the installation of stream enhancements along approximately 1,400 linear feet of stream to satisfy compensatory mitigation requirements for stream impacts from coal activities. Enhancements included the installation of rock cross vanes, single arm vanes, rock toe protection, bankfull benches, and trash/debris removal. Goals of the project included the improvement of a low flow channel and pool habitats.



### **Wheeling Country Day School Stream Restoration**

ASE restored a 500 LF section of stream with the help of students and faculty at the Wheeling Country Day School. ASE used the opportunity to teach young children the importance of conserving and restoring our natural resources. The eroding streambank was re-graded to a stable slope and a natural seed mix was spread over the disturbed area followed by straw mulch. The streambank was then stabilized with coir matting and planted with live stakes including *Salix nigra*, *Salix sericea*, *Cornus sericea*, *Sambucus canadensis*, and *Viburnum dentatum*. Invasive species (Japanese Knotweed) were sprayed with herbicide to promote the growth of natural species.



### **Goose Creek Retail Offsite Mitigation Stream Construction**

ASE personnel provided oversight and assistance in the installation of restoration structures and practices including rock cross vanes and tree installation for riparian buffer creation along 1,347 linear feet of stream channel for the offsite stream mitigation of the Goose Creek Retail

Development. The goals of the activities were to improve water quality, geomorphic stability, and fish/wildlife habitat.



### **Meadow River Stream and Wetland Mitigation Bank Supplemental Tree Planting**

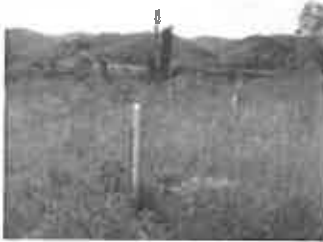
ASE planted 1500 bare-root oak trees and installed Plantra 5-foot vented O-style tree shelters anchored by a 72-inch white oak stake for each tree. Planting efforts were directed towards the overall success criteria of the stream & wetland mitigation bank.



### **Meadow River Stream and Wetland Mitigation Bank Invasive Species Treatment**

ASE conducted invasive species herbicide treatment for *Rosa multiflora*, *Phalaris arundinacea* and various other invasive species to assist in meeting success criteria detailed in the mitigation banking instrument.

### **Tygart Valley Mitigation Bank Invasive Species Treatment and Monitoring**



AllStar Ecology, LLC provided EBX a pre-construction herbicide treatment of *Rosa multiflora* and *Phalaris arundinacea*. Follow up herbicide treatment was applied to meet the success criteria detailed in the mitigation banking instrument. ASE provides monitoring of vegetation, hydrology, stream assessments and macroinvertebrates. Also ASE provides the yearly monitoring report for the interagency review team.

### **Colonial Estates Invasive Species Treatment**



ASE conducted invasive species herbicide treatment for this 15 acre compensatory mitigation project. ASE also mapped existing invasive species coverage in the area for monitoring purposes.

### **Moorefield Green Wetland Corrective Actions**



ASE installed coir matting, planted livestakes, vegetation monitoring plots and shallow groundwater monitoring wells as part of a corrective action plan for a constructed onsite wetland mitigation project totaling 1.33 acres.

### **Pleasant Creek Wildlife Management Area**



ASE conducted a feasibility analysis and provided site design and assistance with permitting on a 4 acre wetland restoration area for waterfowl. This project required coordination with the Army Corps of Engineers, WVDNR, WV Conservation Agency, and the WVU Environmental Research Center.

### **Frazier's Bottom Mitigation Monitoring**



ASE performed a variety of services to assess the condition of a constructed wetland system (approx. 14 acres). Extensive vegetation surveys were conducted to compile a species list of vegetation as well as document invasive species. A wetland delineation was conducted to determine the exact size of the created wetlands for comparison with the client's mitigation liability. Wildlife was surveyed by sight and call (birds and frogs). Monitoring photographs were taken to document the site conditions. All wetlands, vegetation transects, and monitoring points were mapped with a Trimble Geo XH GPS unit.

### **Potomac Mitigation Bank Development**



ASE performed assessment and mapping services for the feasibility of a stream mitigation bank serving the Potomac River watershed. Streams were assessed based on possible mitigation activities and the potential improvement of ecological function. A prospectus was prepared and plan is under development for the construction of the bank including the creation of approximately 17 acres of wetlands and the restoration/enhancement of approximately 4,000 linear feet of stream channel.

### **Edward's Run Wetland Mitigation Feasibility Study**



ASE conducted a site feasibility study for an off-site wetland mitigation area for Natural Resources Conservation Services. ASE staff conducted a soil analysis study and a comprehensive wetland delineation to determine if the site contained sufficient characteristics for construction of the wetland mitigation area.





### **Canaan Valley PSD Wetland Delineation and Mitigation Planning**

ASE located wetlands and streams within the areas proposed for sanitary sewer lines and two wastewater treatment plants. Wetlands were identified, flagged and located with a Trimble Geo XH GPS unit. A report was generated as a formal Jurisdictional Determination Request with the US Army Corps of Engineers. ASE assisting with Section 404/401 permitting and the development a mitigation plan for wetland impacts. ASE also worked in conjunction with the Canaan Valley PSD, WVDNR, and USFWS to complete the project.



### **Sleepy Creek Development**

ASE prepared a compensatory mitigation plan to mitigate wetland impacts with onsite creation of 1.97 acres of PSS wetlands, enhancement of 1.37 acres of wetlands, and preservation of 3.82 acres of wetlands. Stream mitigation was proposed onsite through the relocation of 1,256 linear feet of stream channel using natural stream design, enhancement of 2,652 linear feet of stream, and the preservation of 2,384 linear feet of stream.



### **Pad/ Pipeline Location Services**

ASE conducted botanical surveys in request from the U.S Fish & Wildlife Service and the U.S. Forest Service to detect presence or absence of federally listed species and state sensitive species prior to the development of Marcellus Shale gas pads and associated pipelines within the Monongahela National Forest, WV.



### National Park Service Vegetation Monitoring

ASE served as a contractual botanist for an ongoing long-term forest health monitoring project to collect data on groundstory plants between May and August of 2010 and 2011. ASE staff conducted vegetation monitoring in Pennsylvania, West Virginia, and New Jersey throughout various National Parks. In-depth knowledge of the flora of West Virginia and Pennsylvania was required, including expertise in taxa that are often difficult to identify (e.g. Cyperaceae and Poaceae).



### Canaan Valley Institute

ASE conducted an herbicide application targeting invasive species for the purpose of re-establishing native species for a riparian restoration project completed by Canaan Valley Institute in Berkley County, WV. Target species included bush honey suckle (*Lonicera* spp.), multiflora rose (*Rosa multiflora*), Japanese barberry (*Berberus thrunbergii*), tree of heaven (*Ailanthus altissima*), and garlic mustard (*Alliaria petiolata*). The site was approximately 5 acres and included approximately 300 meters of stream. Rodeo (Glyphosate) was utilized due to the sites close proximity to aquatic resources.



### Upper Buffalo Creek

ASE conducted an herbicide application targeting invasive species along the riparian edge of Buffalo Creek for the Monongahela Conservation District in Marion County, WV. Target species were primarily woody stemmed and included willows (*Salix* spp.), American sycamore (*Platanus occidentalis*), and box elder (*Acer negundo*). (*Alliaria petiolata*). Garlon 3A was utilized due to the composition of target species.



### Chinese Tree-of-Heaven (*Ailanthus altissima*) Treatment

ASE conducted a hack-and-squirt herbicide treatment for Russ Richardson of Gilmer County, WV. The treatment was carried out on a 5 acre stand of Chinese Tree-of-Heaven using the herbicide Pathway.

## Section 4.0 – References

### For previous job performance of AllStar Ecology, LLC:

***Will Postelthwai***

Canaan Valley Institute  
494 RiverStone Road  
Davis, WV 26260  
(304) 216-9817

***Sheirl Fletcher***

President  
Fletcher Environmental Services  
P.O. Box 384  
Dellslow, WV 26531  
(304) 288-0490

***Joe Ivers***

Foggy Bottom, LLC  
6799-A Kennedy Road  
Warrenton, VA 20817  
(540) 349-1522

***Kristy Rodrigue***

Project Manager  
RES  
137 1/2 East Main Street  
Suite 210  
Oak Hill, WV 25901  
(704) 277-3383



## **Section 6.0 – Qualifications of Key Personnel: Resumes**



**Ryan L. Ward**

- *Senior Environmental Scientist / Project Manager*



Ryan Ward is an owner of AllStar Ecology and has worked throughout the United States on various projects with an emphasis on wildlife research. Mr. Ward has studied in environments in Texas, New Mexico, Arizona, and Oklahoma. He also has extensive regulatory experience throughout the Mid-Atlantic region, especially in West Virginia and Virginia where he is a Certified Professional Wetland Delineator. Mr. Ward specializes in stream and wetland issues including delineation, compensatory mitigation, permitting, natural stream design, and wetland restoration.

**Education**

- M.S. (2005): Wildlife and Fisheries Resources, West Virginia University, Morgantown, WV.
- B.S. (2003): Wildlife and Fisheries Mgmt (Mnr: Biology), Texas Tech Univ., Lubbock, TX.

**Experience**

Senior Environmental Scientist/Project Manager - AllStar Ecology, LLC	2009-current
Owner/Operator - Spring Peeper Farm & Nursery	2007-current
Environmental Scientist/President - Mountain State Aquatic Resources, LLC	2007-2009
Environmental Scientist - Virginia Waters and Wetlands Inc., Warrenton, VA.	2005-2009
Research Assistant - West Virginia University, Morgantown, WV	2003-2005
Research Technician - Texas Cooperative F&W Research Unit, Lubbock, TX	2002-2003
Forestry Technician GS-462-4 - USDA Forest Service, Carlsbad, NM	2001
Research Technician - Texas Tech University, Lubbock, TX	2000

**Professional Development**

- Virginia Professional Wetland Delineator (#3402000105)
- Member: Society of Wetland Scientists & The Wildlife Society
- West Virginia University Natural Stream Design Short Courses
  - Introduction to Stream Functions and Processes—Course 1
  - Methods for Stream Assessment and Analysis—Course 2
- North Carolina State Stream Restoration Program
  - Level III: Advanced Stream Restoration Design Principles
  - RC 401 Construction Practices for Stream Restoration
- Stream Mechanics—Assessing and Restoring Headwater Mountain Streams
- Wildland Hydrology, Inc
  - Level I: Applied Fluvial Geomorphology
  - Level II: River Morphology & Applications
  - Level III: River Assessment & Monitoring
  - Level IV: River Restoration & Natural Channel Design
- Wetland Training Institute, Inc—Basic Wetland Delineation Course



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**AllStar Ecology, LLC.**

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Ohio Rapid Assessment Method v 5.0 Training Course (Ecological Training Services)  
Ohio Qualitative Habitat Evaluation Index (QHEI) and Headwater Habitat Evaluation Index  
(HHEI) Training Course (Midwest Biodiversity Institute)



## **Gregory L. Short Jr.**

— Senior Botanist / Project Manager



Greg Short is an owner in AllStar Ecology and has worked throughout the eastern United States conducting vegetation surveys and threatened & endangered species surveys. Mr. Short has conducted floristic inventories in Ohio, Pennsylvania, Virginia, West Virginia, Delaware, and New Jersey. He has been affiliated with various private, state, and federal agencies conducting threatened & endangered species surveys for plants and mammals throughout Pennsylvania and West Virginia. Mr. Short is an experienced wetland delineator and has worked on projects for oil/gas, coal, and residential/commercial development.

### **Education**

A.S. (2005): Natural Resources and Wildlife, Garrett College of Maryland, McHenry, MD

### **Experience**

Senior Environmental Scientist/Botanist - AllStar Ecology, LLC	2009-current
Ecologist/Botanist - USDA Forest Service Research Station, Dunbar, WV	2009
Environmental Resource Specialist III - Hatch Mott MacDonald, Morgantown	2007- 2009
Ecologist/Botanist - USDA Forest Service, White Sulphur Springs, WV	2007
Field Botanist/Biological Technician - USDA Forest Service, Morgantown, WV	2006
Ecology Project Assistant - WV Natural Heritage Program WVDNR, Elkins, WV	2005-2006
Invasive Species Technician - WVDNR, Kingwood, WV	2004
Biological Science Technician - WVDNR, Kingwood, WV	2003

### **Professional Development**

Society of Wetland Scientists  
USDA Forest Service Northern Research Station, Vegetation Specialist Certification  
Richard Chinn's 40 Hour Wetland Delineation Certification  
PADI Advanced Scuba Diver Certification  
Pennsylvania Wild Plant Management Permit  
Recognized botanist to conduct T&E Species by the US Fish & Wildlife, West Virginia DNR, and Pennsylvania DCNR  
Ohio Rapid Assessment Method v 5.0 Training Course (Ecological Training Services)  
Ohio Qualitative Habitat Evaluation Index (QHEI) and Headwater Habitat Evaluation Index (HHEI) Training Course (Midwest Biodiversity Institute)  
American Heart Association CPR and First Aid Training  
PEC Safeland Basic (Bickerstaff Safety Consulting)



## **Dylan Fowler**

- *Environmental Scientist*



Dylan Fowler joined the AllStar Ecology team in 2011 after previous jobs with MD DNR and the USFS. Mr. Fowler has extensive experience in wildlife research including avian, bats, and insects. He also has significant botanical experience within the Mid-Atlantic region. He has worked on pipeline routing in National Forest areas and performed botanical surveys for rare, threatened, and endangered plant species on National Forest, state, and private lands. He has also performed habitat analyses for rare plant species. In addition, Mr. Fowler has over ten years of experience conducting breeding bird surveys in

WV. Mr. Fowler has worked extensively on oil and gas projects delineating and assessing streams and wetlands for permitting and construction avoidance, as well as GIS mapping and report writing for these projects.

### **Education**

B.S. (2010): Wildlife and Fisheries Resources, West Virginia University, Morgantown, WV

A.S. (2008): Natural Resources and Wildlife Technology, Garrett College, McHenry, MD

### **Experience**

Environmental Scientist - AllStar Ecology LLC	2011-current
Plant Technician - USDA Forest Service, Morgantown, WV	2010-2011
Seasonal Biologist - MD DNR Wildlife and Heritage Program, Frostburg, MD	2008-2009
Gypsy Moth Surveyor - MD Extension Service, Mt. Lake Park, MD	2006-2007
Park Grounds Maintenance/Supervisor - University of MD, Bittering, MD	2004-2008

### **Professional Development**

Qualified Running Buffalo Clover Surveyor-Ohio

Running Buffalo Clover, Small Whorled Pogonia, Virginia Spiraea Workshop (WVDNR, USFWS)

Society of Wetland Scientists

The Wildlife Society

Certified Commercial Pesticide Applicator

SonoBat Software Training Workshop, Bat Conservation and Management, Inc.

American Heart Association CPR and First Aid Training

Wildlands Firefighting Certificates, S190 and S130

MD Boating Safety Education Certificate

The Swamp School: Wetland Delineation and Regional Supplements (40 hour course)

Office of Miners Health, Safety and Training (OMHST) (24 hour course)

Ohio Rapid Assessment Method v 5.0 Training Course

Ohio Qualitative Habitat Evaluation Index (QHEI) and Headwater Habitat Evaluation Index (HHEI) Training Course





## Justin D. DeVault

- Environmental Scientist



Justin DeVault joined the AllStar Ecology team in 2013. Mr. DeVault has worked throughout western Maryland on various Power Plant Research Program projects with an emphasis on wetland monitoring and restoration. The projects included extensive botanical surveys throughout several wetland complexes. He has worked extensively on oil and gas projects delineating and assessing streams and wetlands for permitting and construction avoidance, as well as GIS mapping and reporting. Mr. DeVault has conducted botanical, herpetofaunal, fish, and small mammal surveys. He also serves as a herpetology field lab instructor in Costa Rica, with a focus on field identification and survey techniques of amphibians and reptiles.

### Education

B.S. (2009): Wildlife and Fisheries Resources, West Virginia University, Morgantown, WV

A.S. (2008): Natural Resources and Wildlife Technology, Garrett College, McHenry, MD

### EXPERIENCE

Environmental Scientist - AllStar Ecology, LLC	2013-current
Herpetology Field Instructor - Garrett College/Maderas Rainforest Conservancy, McHenry, MD/Cariari Pococi Limon, Costa Rica	2008-current
Biological Technician – Garrett College (MD DNR/PPRP), McHenry, MD	2008-2013

### Professional Development

Qualified Running Buffalo Clover Surveyor – Ohio  
 Running Buffalo Clover, Small Whorled Pogonia, Virginia Spiraea Workshop (WVDNR, USFWS)  
 Society for the Study of Amphibians and Reptiles  
 Ohio Biological Survey  
 Qualified Compliance Inspector of Stormwater  
 Qualified Preparer of Storm Water Pollution Prevention Plans  
 Ohio Rapid Assessment Method v 5.0 Training Course  
 Ohio Qualitative Habitat Evaluation Index (QHEI) and  
 Headwater Habitat Evaluation Index (HHEI) Training Course  
 Registered Pesticide Technician  
 Wildlands Firefighting Certificates, S190 and S130  
 MD Boating Safety Education Certificate  
 The Swamp School: Wetland Delineation and Regional Supplements (40-hour training course)  
 PEC Safeland Basic (Bickerstaff Safety Consulting)  
 Maryland Stream Waders  
 GMAW (M.I.G.) Welding Certificate, United Technical Center



## Vanessa Cunningham

### Environmental Scientist / GIS Specialist



Vanessa Cunningham, AllStar Ecology, LLC. Environmental Scientist, & GIS Specialist has worked in various locations in the Western, and Eastern Regions of the United States. She has supported a range of projects for the Department of Defense, NASA, the U.S. National Park Service and various educational and non-profit institutions specializing in restoration biology, forest phenology, natural resource management and landscape level GIS Projects. Ms. Cunningham has studied environments broadly in California, Maryland, Tennessee and West Virginia, focusing on habitat restoration and developing remote sensing and GIS technologies for phenological research. Currently, Ms. Cunningham specializes in GIS Analysis, and CWA permitting with the United States Army Corps of Engineers, United States Environmental Protection Agency, United States Fish and Wildlife Service and various State Regulatory Agencies.

### Education

- M.S. (2016): Marine Estuarine Environmental Sciences, University of Maryland College Park, Frostburg, MD
- Cert (2014): Geographic Information Science, San Diego Mesa College, San Diego, CA.
- B.A. (2009): Environmental Studies and Biology, University of California Santa Cruz, Santa Cruz, CA.

### Experience

- |   |              |
|---|--------------|
| Environmental Scientist I / GIS Specialist - AllStar Ecology, LLC, Fairmont, VW | 2016-Current |
| Graduate Assistant – University of Maryland, Frostburg, MD                      | 2013-2016    |
| Conservation Intern – US Fish and Wildlife Service, San Diego, CA               | 2013         |
| Field Technician – SDSU: Douglas Deutschman Lab, Orange County, CA              | 2012         |
| Project Manager – Soil Ecology and Restoration Group, San Diego, CA             | 2010-2012    |
| Field Technician – Audubon Starr Ranch Sanctuary, Trabuco Canyon, CA            | 2010         |
| Research Technician – University of California Santa Cruz, CA                   | 2007-2009    |

### Publications

**Cunningham V.M, Elmore A.J, Nelson D.M, McNeil B.E.** In preparation, Landscape, canopy and leaf-level factors explored on the stability of summer greenness in Landsat phenology.



# ALLSTAR ECOLOGY

## Natural Resource Specialists

### BOTANY SERVICES



#### Mapping

AllStar's botanists are all well-trained in the use of Trimble GPS units capable of sub-meter accuracy. We are also GIS specialists and we create our own maps following fieldwork. We can create maps to illustrate survey routes, data points, photo location points, rare species locations, forest community types, invasive species locations, and land use.

#### Report Generation

AllStar Ecology will create a custom report based on the site surveyed and the type of survey. We work individually with our specific clients for each project to provide a report in the desired format.

#### Final Consultation

AllStar will fill out all applicable paperwork required by government agencies upon completion of the botanical surveys. We can submit this package to the agency, or provide it to the client to submit.

#### Botany Services

##### Habitat Assessment

AllStar's botanists can conduct an on-site habitat analysis prior to field work and rank a site in terms of its probability to support any RTE species which is predicted to occur onsite. While this isn't a final survey, it can give our clients an idea of where habitat is present onsite which could support RTE species, which helps in pre-project planning. These analyses are often done during the winter months when field surveys cannot be conducted. A field survey will still need performed during the proper season to confirm presence/absence of RTE species.

##### Field Surveys

AllStar can conduct botanical field surveys for projects of all types and sizes. We work in a variety of land uses, including National Forest, state land, municipalities, and private land. All current state and federal protocol is followed during surveys.

##### Conservation Services

AllStar can make recommendations to avoid or minimize impacts to any rare species onsite. In addition, we offer strategies to manage and monitor unique microhabitats associated with the RTE species for continued viability.



# ALLSTAR ECOLOGY

## Natural Resource Specialists

### BOTANY SERVICES



Top notch analysis, consultation  
and plans for all botanical concerns.

AllStar Ecology's Botanical Survey Team provides botanical surveys for Rare, Threatened, and Endangered (RTE) Species, State Sensitive Species, State Species of Special Concern (SSSC), and Regional Forestry Sensitive Species (RFSS). Surveys have been conducted on a wide range of land use types, including US National Forest Service Land, State Parks, Wildlife Management Areas, and private lands throughout the Mid-Atlantic Region.

*AllStar Ecology, LLC facilitates and supports our clients by providing environmental turnkey services that minimize regulatory and permitting delays. We tailor our approach to our clients' needs, and provide efficient, comprehensive, and cost effective solutions that only a specialist can provide.*

#### Agency Consultation

Our botanists often consult with state and federal agency representatives before fieldwork to ensure proper protocol, as well as determine known locations of RTE species or potential habitat which could support RTE species. AllStar maintains data use agreements with state and federal agencies to ensure consistency through this process.

#### Desktop Analysis

Prior to field surveys, AllStar provides a site-specific desktop analysis. During this analysis, we use various GIS backgrounds and shapefiles, including known RTE sites, geology types, streams, wetlands, topographic maps, and aerial imagery to predict potential high probability habitats.

#### Study Plan

AllStar can prepare a study plan for submittal to various agencies for approval before field surveys begin. This study plan combines all of the information gained from the desktop analysis and agency consultation and outlines our planned survey methods as well as the areas which we plan to conduct surveys based on a variety of parameters.

