



**eco STRATEGIES**  
CIVIL ENGINEERING

**EXPRESSION OF INTEREST**

**MAPPING AND DESIGN SERVICES**

**CHEYENNE SALES COMPANY, INC. O-11-83, S-2009-96, O-2025-86**

**DEP16157**

**DATE: APRIL 8, 2013**

04/10/13 09:37:46 AM  
West Virginia Purchasing Division



April 8, 2013

West Virginia Purchasing Division / Department of Environmental Protection  
Attention: Frank Whittaker  
601 57<sup>th</sup> Street SE  
Charleston, WV 25304

**RE: Professional Mapping and Design Services  
DEP16157 – Expression of Interest**

Dear Mr. Whittaker:

EcoStrategies Civil Engineering, PLLC (EcoStrategies) and its Sub-Consultant, FORECON, Inc. (FORECON) are pleased to provide this service packet to express our interest in performing mapping and engineering design services for the bond forfeited permits of Cheyenne Sales Company Inc. (DEP16157 project) located in Upshur County, West Virginia.

EcoStrategies and FORECON are small businesses with two offices located in Elkins and Oak Hill, West Virginia. We believe that our credentials and experience would be a great fit for this project. We can provide exceptional value and high-quality services to the Department of Environmental Protection, utilize our local resources, and offer competitive rates.

Please review the enclosed packet with attachments and feel free to contact me via phone at 716.664.5602 Extension 400 or e-mail at [ajohnson@ecostrategiespllc.com](mailto:ajohnson@ecostrategiespllc.com) if you have any questions.

Respectfully,

A handwritten signature in black ink that reads "Andrew R. Johnson". The signature is fluid and cursive, with a long horizontal stroke at the end.

Andrew R. Johnson, P.E., CPESC  
*Civil Engineer / Certified Professional in Erosion and Sediment Control*



State of West Virginia  
 Department of Administration  
 Purchasing Division  
 2019 Washington Street East  
 Post Office Box 50130  
 Charleston, WV 25305-0130

**Solicitation**

NUMBER
DEP16157

PAGE
1

ADDRESS CORRESPONDENCE TO ATTENTION OF:
FRANK WHITTAKER 304-558-2316

VENDOR

**RFQ COPY**  
**TYPE NAME/ADDRESS HERE**

EcoStrategies Civil Engineering, PLLC  
 1890 East Main Street  
 Falconer, New York 14733

SHIP TO

ENVIRONMENTAL PROTECTION  
 DEPT. OF  
 OFFICE OF SPECIAL RECLAMATION  
 105 S. RAILROAD STREET  
 PHILIPPI, WV  
 26416-9998 304-457-3219

DATE PRINTED
03/07/2013

BID OPENING DATE: 04/11/2013 BID OPENING TIME 01:30PM

LINE	QUANTITY	UOP	CAT NO	ITEM NUMBER	UNIT PRICE	AMOUNT
0001	1	JB		906-29		
	MULTIPLE PERMITS			DESIGN		
				EXPRESSION OF INTEREST		
	THE WEST VIRGINIA PURCHASING DIVISION, FOR THE AGENCY, THE WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION, IS SOLICITING EXPRESSIONS OF INTEREST FOR PROFESSIONAL MAPPING AND DESIGN SERVICES AT THE BOND FORFEITED PERMITS OF CHEYENNE SALES COMPANY INC. 0-11-83, S-2009-96 AND 0-2025-86 IN UPSHUR COUNTY, WEST VIRGINIA PER THE FOLLOWING BID REQUIREMENTS AND ATTACHED SPECIFICATIONS.					
	***** THIS IS THE END OF RFQ DEP16157 ***** TOTAL:					

SIGNATURE <i>Andrew R. Jones</i>	TELEPHONE 716-664-5602 X400	DATE 04/08/2013
TITLE Principal Engineer	FEIN 46-2252464	ADDRESS CHANGES TO BE NOTED ABOVE

WHEN RESPONDING TO SOLICITATION, INSERT NAME AND ADDRESS IN SPACE ABOVE LABELED 'VENDOR'



# Attachment “B”

**WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION**

**OSR CONSULTANT QUALIFICATION QUESTIONNAIRE**

Attachment "B"

PROJECT NAME Mapping & Design Services (DEP16157)		DATE (DAY, MONTH, YEAR) 05,04,2013	FEIN 46-2252464
1. FIRM NAME EcoStrategies Civil Engineering, PLLC (Sub-Consultant: FORECON, Inc.)		2. HOME OFFICE BUSINESS ADDRESS 219/250 and Chenoweth Creek Road P.O. Box 228 Elkins, WV 26241	3. FORMER FIRM NAME Not Applicable (N/A)
4. HOME OFFICE TELEPHONE 304.636.9336 (Elkins, WV office - closest to site) or Andrew Johnson Cell Phone = 716.664.1661.	5. ESTABLISHED (YEAR) 2013	6. TYPE OWNERSHIP Joint-Venture (with FORECON, Inc.)	6a. WV REGISTERED DBE (Disadvantaged Business Enterprise) YES NO X
7. PRIMARY OSR DESIGN OFFICE: ADDRESS/ TELEPHONE/ PERSON IN CHARGE/ NO. OSR DESIGN PERSONNEL EACH OFFICE 1890 East Main Street, Falconer, NY 14733 / 716.664.5602 Ext 400 / Andrew Johnson OSR Design Personnel = 6 in the Falconer, NY office and 2 support staff in Elkins Hill, WV office.			
8. NAMES OF PRINCIPAL OFFICERS OR MEMBERS OF FIRM Andrew R. Johnson, PE, CPESC (EcoStrategies Civil Engineering, PLLC)		8a. NAME, TITLE, & TELEPHONE NUMBER - OTHER PRINCIPALS Brian Bullard, Director of Consulting Operations/Mining Plans (FORECON, Inc. / Phone: 716.664.5602 Ext. 303)	
9. PERSONNEL BY DISCIPLINE			
X ADMINISTRATIVE	— ECOLOGISTS	— LANDSCAPE ARCHITECTS	— STRUCTURAL ENGINEERS
— ARCHITECTS	— ECONOMISTS	— MECHANICAL ENGINEERS	X SURVEYORS (unlicensed)
X BIOLOGIST	— ELECTRICAL ENGINEERS	— MINING ENGINEERS	— TRAFFIC ENGINEERS
X CADD OPERATORS	— ENVIRONMENTALISTS	X PHOTOGRAMMETRISTS	— OTHER
— CHEMICAL ENGINEERS	— ESTIMATORS	— PLANNERS: URBAN/REGIONAL	
X CIVIL ENGINEERS	— GEOLOGISTS	— SANITARY ENGINEERS	
— CONSTRUCTION INSPECTORS	— HISTORIANS	— SOILS ENGINEERS	
— DESIGNERS	— HYDROLOGISTS	— SPECIFICATION WRITERS	8 TOTAL PERSONNEL
TOTAL NUMBER OF WV REGISTERED PROFESSIONAL ENGINEERS IN PRIMARY OFFICE: <u>0</u> (Andrew Johnson is a PE in New York, waiting on reciprocity in West Virginia)			
*RPEs other than Civil and Mining must provide supporting documentation that qualifies them to supervise and perform this type of work.			
Andrew R. Johnson is a Civil Engineer licensed in New York State and is currently awaiting reciprocity in West Virginia. Estimated time is 1-2 months before license is received. Mr. Johnson is also a Certified Professional in Erosion and Sediment Control (CPESC), which is an international certification.			
10. HAS THIS JOINT-VENTURE WORKED TOGETHER BEFORE? X YES NO			

11. OUTSIDE KEY CONSULTANTS/SUB-CONSULTANTS ANTICIPATED TO BE USED. Attach OSR "Consultant Qualification Questionnaire" Questionnaire".

<p>NAME AND ADDRESS:          FORECON, Inc.          219/250 and Chenoweth Creek Road          PO Box 228          Elkins, WV 26241</p>	<p>SPECIALTY:          Forestry and Natural Resource Consulting</p>	<p>WORKED WITH BEFORE  <input checked="" type="checkbox"/> Yes  <input type="checkbox"/> No</p>
<p>NAME AND ADDRESS:          FORECON, Inc.          3418 East Main Street          Oak Hill, WV 25901-9603</p>	<p>SPECIALTY:          Forestry and Natural Resource Consulting</p>	<p>WORKED WITH BEFORE  <input checked="" type="checkbox"/> Yes  <input type="checkbox"/> No</p>
<p>NAME AND ADDRESS:          FORECON, Inc.          1890 East Main Street          Falconer, NY 14733</p>	<p>SPECIALTY:          Forestry and Natural Resource Consulting</p>	<p>WORKED WITH BEFORE  <input checked="" type="checkbox"/> Yes  <input type="checkbox"/> No</p>
<p>NAME AND ADDRESS:</p>	<p>SPECIALTY:</p>	<p>WORKED WITH BEFORE  <input type="checkbox"/> Yes  <input type="checkbox"/> No</p>
<p>NAME AND ADDRESS:</p>	<p>SPECIALTY:</p>	<p>WORKED WITH BEFORE  <input type="checkbox"/> Yes  <input type="checkbox"/> No</p>
<p>NAME AND ADDRESS:</p>	<p>SPECIALTY:</p>	<p>WORKED WITH BEFORE  <input type="checkbox"/> Yes  <input type="checkbox"/> No</p>
<p>NAME AND ADDRESS:</p>	<p>SPECIALTY:</p>	<p>WORKED WITH BEFORE  <input type="checkbox"/> Yes  <input type="checkbox"/> No</p>
<p>NAME AND ADDRESS:</p>	<p>SPECIALTY:</p>	<p>WORKED WITH BEFORE  <input type="checkbox"/> Yes  <input type="checkbox"/> No</p>
<p>NAME AND ADDRESS:</p>	<p>SPECIALTY:</p>	<p>WORKED WITH BEFORE  <input type="checkbox"/> Yes  <input type="checkbox"/> No</p>

12. A. Is your firm experience in Special Reclamation Remediation/Mine Reclamation Engineering?

YES Description and Number of Projects:

FORECON, Inc. has been working in the mining industry for over 35 years and has completed approximately 140 Mining Plans, Mine Land Use Plans, and Mining Reclamation Plans. EcoStrategies has been teaming up with FORECON on mining projects and is currently assisting FORECON on six active mine sites in New York State. In addition, Andrew Johnson completed a large mining remediation project (multi-million dollar cleanup project) in 2012 at a mine site located in Mountain Pass, California (see resume 'Wastewater Pipeline Removal Project')

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NO

B. Is your firm experienced in soil analysis and coal refuse analysis?

YES Description and Number of Projects:

Andrew Johnson has formal training and experience in soil analysis. Mr. Johnson has completed dozens of environmental and water resource engineering projects that require soils analysis, sampling, testing, characterization, disposal, etc. (see attached resume). We do not have specific experience with coal refuse analysis but are confident that we have the knowledge and ability to meet DEP objectives for coal refuse analysis.

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NO

C. Is your firm experienced in hydrology and hydraulics for handling mine water discharges on mining sites?

YES Description and Number of Projects:

Andrew Johnson specializes in water resources and environmental engineering projects. Mr. Johnson has had formal training and course work in hydrology and hydraulics and completed dozens of professional engineering projects. Projects include dozens of stormwater pollution prevention plans, erosion and sediment control plans, designing culverts, open channels, drainage features, etc. Mr. Johnson was also in charge of one large mining remediation project located in Mountain Pass, California involved the handling, characterization, and disposal of over 68,000 gallons of mine wastewater. In addition, FORECON staff (Brian Bullard, Rick Constantino, Maureen Mack) has completed over 100 mining projects and water-related projects involving the knowledge and application of hydrology and hydraulics. See attached resumes for more detail.

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NO

D. Does your firm produce its own Aerial Photography and Develop Contour Mapping?

YES Description and Number of Projects:

FORECON has been producing its own aerial figures and developing its own contour mapping for over 30 years. Ms. Maureen Mack (FORECON Inc.) has over 28 years of experience collecting field data using global positioning system (gps) units and surveying equipment and developing various maps and figures for all types of FORECON projects. Ms. Mack has also been assisting EcoStrategies with maps and figures. In addition, FORECON staff (Todd Krueger and Travis Acker) specialize in the creation of GIS figures. These figures can be combined with aerial images and other figures to provide high-quality visual aids for the project. See attached resumes for more detail.

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NO

E. Is your firm experienced in design of highwall elimination, grading and material handling plans for land reclamation?

YES Description and Number of Projects:

FORECON and EcoStrategies are very experienced with grading and material handling plans for mine land reclamation. Both companies have the knowledge, resources, and capability to design a highwall elimination plan but do not have specific project examples. We also have other sub-consultants (larger firms) that can be called upon and utilized to review and comment on highwall design work if necessary.

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NO

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13. PERSONAL HISTORY STATEMENT OF PRINCIPALS AND ASSOCIATES RESPONSIBLE FOR OSR PROJECT DESIGN (Furnish complete data but keep to essentials)

NAME & TITLE (Last, First, Middle Int.) Johnson, Andrew, R Principal Civil Engineer / Certified Professional in Erosion and Sediment Control EcoStrategies Civil Engineering, PLLC	YEARS OF EXPERIENCE		
	YEARS OF OSR DESIGN EXPERIENCE: 2 years of mining remediation projects and mine planning/permitting.	YEARS OF OSR RELATED DESIGN EXPERIENCE: 2 years.	
Brief Explanation of Responsibilities Andrew Johnson has over 8 years of professional engineering consulting experience, specializing in environmental, water resources, and health and safety projects. Mr. Johnson will be the project manager and the engineer of record overseeing all aspects of this project. Mr. Johnson will also design all of the engineering features for the project.			
See attached resume for background, credentials, and project experience.			
EDUCATION (Degree, Year, Specialization) Bachelor of Science, 2003, Civil Engineering Master of Science, 2005, Environmental and Water Resources Engineering			
MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS See attached resume.		REGISTRATION (Type, Year, State) Professional Civil Engineer (PE), 2012, New York (AWAITING RECIPROCITY IN WEST VIRGINIA). Certified Professional in Erosion and Sediment Control, 2011, International Certification	

13. PERSONAL HISTORY STATEMENT OF PRINCIPALS AND ASSOCIATES RESPONSIBLE FOR OSR PROJECT DESIGN (Furnish complete data but keep to essentials)

NAME & TITLE (Last, First, Middle Int.) Bullard, Brian FORECON, Inc. (Sub-consultant)	YEARS OF EXPERIENCE		
	YEARS OF OSR DESIGN EXPERIENCE: 28 years of mining experience (over 100 projects).	YEARS OF OSR RELATED DESIGN EXPERIENCE: 28 years of mining experience (over 100 projects).	
Brief Explanation of Responsibilities Mr. Bullard has a long history working in the mining industry and will provide senior management support (Quality Assurance/Quality Control) for all planning, permitting, technical design and reporting activities.			
See attached resume for background, credentials, and project experience.			
EDUCATION (Degree, Year, Specialization) Associate of Science, 1981, Resource Management Bachelor of Science, 1982, Resource Management Master of Science, 1986, Forest Recreation - Resources Management and Policy			
MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS See attached resume		REGISTRATION (Type, Year, State) See attached resume	

13. PERSONAL HISTORY STATEMENT OF PRINCIPALS AND ASSOCIATES RESPONSIBLE FOR OSR PROJECT DESIGN (Furnish complete data but keep to essentials)

NAME & TITLE (Last, First, Middle Int.)	YEARS OF EXPERIENCE	
	YEARS OF OSR DESIGN EXPERIENCE	YEARS OF OSR RELATED DESIGN EXPERIENCE
Mack, Maureen Cartographer/Drafter/Technician FORECON, Inc. (Sub-consultant)	28 years of mining experience (over 100 projects).	28 years of mining experience (over 100 projects).

Brief Explanation of Responsibilities

Ms. Mack will create maps, figures, and drawings using various software and will assist with field work as needed. Ms. Mack has a long history working in the mining industry (28 years) and is well versed in various types of software programs and applications.

See attached resume for background, credentials, and project experience.

EDUCATION (Degree, Year, Specialization)

Associates Degree, 1983, Applied Science-Forest Technology  
(Various coursework in Photography and Technical Drawing, 1980, 1986, 1989, 1990)

MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS

See attached resume.

REGISTRATION (Type, Year, State)

See attached resume.

13. PERSONAL HISTORY STATEMENT OF PRINCIPALS AND ASSOCIATES RESPONSIBLE FOR OSR PROJECT DESIGN (Furnish complete data but keep to essentials)

NAME & TITLE (Last, First, Middle Int.)	YEARS OF EXPERIENCE	
	YEARS OF OSR DESIGN EXPERIENCE	YEARS OF OSR RELATED DESIGN EXPERIENCE
To Krueger, Todd GIS Specialist/Drafter/Technician FORECON, Inc. (Sub-consultant)	0 OSR experience, (but 15 years of experience with GIS, creating figures, etc.)	0 OSR experience, (but 15 years of experience with GIS, creating figures, etc.)

Brief Explanation of Responsibilities:

Mr. Krueger will assist Mr. Johnson and Ms. Mack with the development of technical engineering drawings using AutoCad, ArcGIS, and other applicable software. Mr. Krueger also has an assistant, Travis Acker, who will help with the creation of design drawings and figures.

See attached resumes for background, credentials, and project experience.

EDUCATION (Degree, Year, Specialization)

A.S., 1992, Mathematics/Science  
A.A.S., 1995, Forest Technology  
Bachelor of Science, 2008, Information Systems/Geographic Information Systems

MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS

See attached resume.

REGISTRATION (Type, Year, State)

See attached resume.

13. PERSONAL HISTORY STATEMENT OF PRINCIPALS AND ASSOCIATES RESPONSIBLE FOR OSR PROJECT DESIGN (Furnish complete data but keep to essentials)

NAME & TITLE (Last, First, Middle Int.)	YEARS OF EXPERIENCE	
	YEARS OF OSR DESIGN EXPERIENCE:	YEARS OF OSR RELATED DESIGN EXPERIENCE:
Wenrich, Jason West Virginia Office Manager/Staff Forester FORECON, Inc. (Sub-consultant)	0. (These two employees have over 14 years of combined technical experience working as registered foresters in the state of West Virginia).	0
Radabaugh, Dustin West Virginia Staff Forester FORECON, Inc. (Sub-consultant)		

Brief Explanation of Responsibilities

Mr. Wenrich and Mr. Radabaugh will provide local field support to assist the engineer (Andrew Johnson) with data collection, surveying, monitoring, sampling, reporting, etc. Mr. Wenrich and Mr. Radabaugh are both West Virginia Registered Foresters (#672 and #703, respectively), both work out of FORECON's Elkins, WV and Oak Hill, WV offices, and have 14 years of combined technical experience working in the state of West Virginia.

See attached resumes for background, credentials, and project experience.

EDUCATION (Degree, Year, Specialization)

Jason Wenrich:

Bachelor of Science, 2000, Forest Science

Dustin Radabaugh:

Associates, 2002, Forestry

Bachelor of Science, 2005, Forest Resource Management

MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS

See attached resumes.

REGISTRATION (Type, Year, State)

See attached resumes.

Other Project Personnel

NAME & TITLE (Last, First, Middle Int.)	YEARS OF OSR DESIGN EXPERIENCE:	YEARS OF OSR RELATED DESIGN EXPERIENCE:
Constantino, Rick Senior Biologist/Project Manager FORECON, Inc. (Sub-Consultant)	-	-

Rick Constantino has over 10 years of experience in the fields of biology, forestry, and water resources projects. Mr. Constantino will assist the project as-needed and will help the engineer (Andrew Johnson) with quality reviews.

See attached resumes for educational background, credentials, and project experience.

14. PROVIDE A LIST OF SOFTWARE AND EQUIPMENT AVAILABLE IN THE PRIMARY OFFICE WHICH WILL BE USED TO COMPLETE OSR DESIGN SERVICES

Software: AutoCad, ArcGIS 9.1/9.2/10.1, Post greSQL, Geoserver 2.1.3, Subdivide/Deed-Check/Deed Writer, Microsoft office.

Equipment: GPS units (Trimble units and hand-held units), Transit (DGT10, CST.Berger) for survey work, Environmental Sound Level Meter (CEL633A - Class 1 Type 1), Various measuring tools.

15. CURRENT ACTIVITIES ON WHICH YOUR FIRM IS THE DESIGNATED ENGINEER OF RECORD

PROJECT NAME, TYPE AND LOCATION	NAME AND ADDRESS OF OWNER	NATURE OF YOUR FIRM'S RESPONSIBILITY	ESTIMATED CONSTRUCTION COST	PERCENT COMPLETE
6 mining projects located in New York State. (EcoStrategies and FORECON are working together)	Available upon request.	Consultant on all 6 projects in charge of handling all aspects of planning, permitting, and design.	Approximately \$5,000 per project. Approximately \$30,000 total for all six projects.	90% Complete.
Stormwater Demonstration Site located in Cattaraugus County, New York. (EcoStrategies)	Southern Tier West Cattaraugus Department of Public Work (DPW).	Consultant in charge of design work and design drawings for 'green infrastructure' for stormwater treatment and drainage structures.	Feasibility Study \$5,000.  Construction Cost estimated at \$400,000.	10% Complete.
Stormwater run-off and Sediment Control Plan, Mining Project, located in Chautauqua County, New York.	Tri-James, Ashville, NY	Evaluate drainage alternatives and re-design the existing drainage system to keep all stormwater run-off contained within the mine limits.	Approximately \$5,000.	90% Complete.
Sewage Permit, New Sewage System for Private Camp, located in Warren, Pennsylvania.	Christopher Miller, Northeast, PA	Complete a Component 1 Sewage Facilities Planning Module, including all figures, maps, survey info, etc.	Approximately \$2,000.	95% Complete.

TOTAL NUMBER OF PROJECTS: 9

TOTAL ESTIMATED CONSTRUCTION COSTS: \$42,000



17. COMPLETED WORK WITHIN LAST 5 YEARS ON WHICH YOUR FIRM WAS THE DESIGNATED ENGINEER OF RECORD

PROJECT NAME, TYPE AND LOCATION	NAME AND ADDRESS OF OWNER	ESTIMATED CONSTRUCTION COST	YEAR	CONSTRUCTED (YES OR NO)
None. EcoStrategies is a new firm established in January 2013. (Note: The Sub-Consultant, FORECON, has been established since 1954.)	N/A	N/A	N/A	N/A
See attached business brochures for EcoStrategies and FORECON to view example projects and services.				

18. COMPLETED WORK WITHIN LAST 5 YEARS ON WHICH YOUR FIRM HAS BEEN A SUB-CONSULTANT TO OTHER FIRMS (INDICATE PHASE OF WORK FOR WHICH YOUR FIRM WAS RESPONSIBLE)

PROJECT NAME, TYPE AND LOCATION	NAME AND ADDRESS OF OWNER	ESTIMATED CONSTRUCTION COST OF YOUR FIRM'S PORTION	YEAR	CONSTRUCTED (YES OR NO)	FIRM ASSOCIATED WITH
None. EcoStrategies is a new firm established in January 2013. (Note: The Sub-Consultant, FORECON, has been established since 1954.)	N/A	N/A	N/A	N/A	N/A
See attached business brochures for EcoStrategies and FORECON to view example projects and services.					

19. Use this space to provide any additional information or description of resources supporting your firm's qualifications to perform work for the West Virginia Abandoned Mine Lands Program.

EcoStrategies and its sub-consultant (FORECON, Inc.) have at least 8 employees to devote to this project. We have a proven and successful track record working on mine sites, environmental remediation projects, and water resource projects. We also have local support staff and two offices in West Virginia, one of which is located in Elkins (approximately one-half hour from the project location). We will provide DEP with high quality service and exceptional value at competitive rates. Thank you very much for your consideration!

20. The foregoing is a statement of facts.

Signature:  Title: Principal Civil Engineer / Certified Professional in Erosion and Sediment Control

Date: 04/08/2013

Printed Name: Andrew R. Johnson, PE, CPESC





# Attachment “C”

## OSR and RELATED PROJECT EXPERIENCE MATRIX

PROJECT	Exp. Basis C-Corp P-Personal *	Additional info provided in Section (s) **	PROJECT EXPERIENCE REQUIREMENTS														Primary staff participation/capacity *** M-Management P-Professional			
			Forfeited Surface Mine Reclamation	Forfeited Deep Mine Reclamation	Portal/shaft closure	Hydrologic/Hydraulic design/Eval.	Remining Evaluation	Mine / refuse fire abatement	Subsidence investigation/mitigation	Hazardous waste disposal	Project specifications	Water quality evaluation /mitigation replacement	Construction inspection / management	Water treatment	Equipment /structure removal	Stream restoration	Geotechnical/stability	NPDES/ Stormwater preparation		
VARIOUS	P/C	-	X			X	X	X	X	X	X	X	X	X	X	X	X			(P & M)
<p>* FORECON INC. HAS WORKED ON APPROXIMATELY 140 MINE PROJECTS OVER 35 YEARS. ANDREW JOHNSON (EcoStrategies) has worked on 8 MINE PROJECTS AND DOZENS OF ENVIRONMENTAL REMEDIATION PROJECTS. SEE RESUMES FOR EXAMPLES. BOTH COMPANIES HAVE PROJECT EXPERIENCE WITH THE "X" BOXES SHOWN ABOVE. UNCHECKED BOXES MAY REQUIRE ADDITIONAL REVIEW BY OTHER PARTIES THAT WOULD BE CONTRACTED BY EcoStrategies &amp; FORECON (AS NEEDED).</p>																				

\*List whether project experience is corporate or personnel based or both  
 \*\* Use this area to provide specific sections or pages if needed for reference  
 \*\*\* List primary design personnel and their functional capacity for the projects listed.



Terms, Conditions  
Certification and Signature  
Pages

CERTIFICATION AND SIGNATURE PAGE

By signing below, I certify that I have reviewed this Solicitation in its entirety; understand the requirements, terms and conditions, and other information contained herein; that I am submitting this bid or proposal for review and consideration; that I am authorized by the bidder to execute this bid or any documents related thereto on bidder's behalf; that I am authorized to bind the bidder in a contractual relationship; and that to the best of my knowledge, the bidder has properly registered with any State agency that may require registration.

EcoStrategies Civil Engineering, PLLC.

(Company)

Andrew R. Johnson

(Authorized Signature)

ANDREW R. JOHNSON, PRINCIPAL ENGINEER

(Representative Name, Title)

716.664.1661

(Phone Number)

716.664.6648

(Fax Number)

04/05/2013

(Date)

**ADDENDUM ACKNOWLEDGEMENT FORM**  
**SOLICITATION NO.:** DEP16157

**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:** **(NONE RECEIVED)**  
 (Check the box next to each addendum received)

- |   |  |
|---|--|
| <input 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 binding.

EcoStrategies Civil Engineering, PLLC.

Company

Andrew R. [Signature]

Authorized Signature

04/05/2013

Date

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

RFQ No. DEP16157

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: ECOSTRATEGIES CIVIL ENGINEERING, PLLC.

Authorized Signature: *Andrew R. Jones* Date: 04/08/2013

State of NEW YORK

County of CHAUTAUQUA, to-wit:

Taken, subscribed, and sworn to before me this 8<sup>th</sup> day of APRIL, 2013.

My Commission expires September 7, 2013.

AFFIX SEAL HERE

NOTARY PUBLIC *Cynthia L Kinne*

*Purchasing Affidavit (Revised 07/01/2012)*

CYNTHIA L KINNE #5017427  
Notary Public, State of New York  
Qualified in Chautauqua County  
My Commission Expires Sept. 7, 2013



# Resumes

**Education**

B.S., Civil / Environmental  
Engineering, State University of New  
York College of Environmental  
Science and Forestry (SUNY-ESF)  
and Syracuse University, 2003

M.S., Environmental / Water  
Resources Engineering, SUNY-ESF  
and Syracuse University, 2005

**Professional Engineering  
Experience**

ARCADIS – 6 yrs  
BBL – 2 yrs

**Other Experience**

New York State Research Foundation  
– 1.5 yrs  
FORECON – Summer Employment

**Professional Registrations**

Professional Engineer (PE) New York  
State License #090743.

Certified Professional in Erosion and  
Sediment Control (CPESC) #6564

*Note: Awaiting reciprocity application  
for PE license in Pennsylvania and  
West Virginia.*

**Training**

40-Hour OSHA Hazardous  
Waste Operations (HAZWOPER)  
Safety Training

8-Hour OSHA HAZWOPER  
Refresher Training

10-Hour OSHA Construction Safety  
Course

Loss Prevention System (LPS)  
Training

CPR and First Aid Training

National Safety Council (NSC) 6-Hour  
Defensive Driving Course

Smith System Driver Training

HazMat#1: DOT/IATA HazMat  
Shipping and Transportation

RCRA/Hazardous Waste Generator  
Training

Mine Safety and Health Administration  
Training (MSHA) Training

# ANDREW R. JOHNSON, PE, CPESC

## CIVIL ENGINEER

Andy Johnson has 8 years of professional experience working on a variety of engineering projects. Mr. Johnson specializes in environmental, water resources, and health and safety projects. He is a project manager and provides office support (i.e., engineering design, calculations, work plans, permitting) as well as field support and oversight for project implementation. Mr. Johnson has maintained a safety record of zero accidents and has completed tasks on-time and on-budget. Below is list of select projects and experience.

**Project Experience****Chevron – Wastewater Pipeline Removal Project**

Mountain Pass, California

2010-2012

Assistant project manager, on-site operations manager, and primary point of contact for agencies and client for the removal of a 14.8-mile radioactive wastewater pipeline and impacted soils associated with the pipeline. Mr. Johnson oversaw all on-site operations and served as the Site Safety Officer (SSO) on behalf of Chevron. Engineering work activities included planning and oversight for the removal of 14.8-miles of pipeline, 173 tons of pipescale, 68,000 gallons of wastewater, 1.9-miles of abandoned steel freshwater pipeline, and approximately 1,800 tons of impacted soil. Mr. Johnson also provided direct oversight and supervision for sampling and assessing over 70 potential wastewater release areas. Lastly, he developed two feasibility studies for the closure of two evaporation ponds (each pond over 100 acres in size) where the pipeline discharged the wastewater. The project team consisted of 15 individuals and included biologists, geologists, radiological specialists, agency representatives, and construction personnel.

Mr. Johnson was involved in project planning, permitting and development, and worked with six different agencies and their associated project permits (i.e., National Park Service, Bureau of Land Management, California Department of Fish & Game, United States Fish & Wildlife Service, California Water Board – Lahonton Region, California Department of Public Health). The tasks included writing various work plans, sampling plans, stormwater pollution prevention plans (SWPPP), Erosion Control Plans (ECP), and agency reporting. Mr. Johnson and the project team maintained a safety record of zero accidents, zero permit violations, and completed all tasks on-time and on-budget.



**ANDREW R. JOHNSON, PE, CPESC**  
CIVIL ENGINEER

**Chevron – El Paso Refinery**

El Paso, Texas  
2007

Completed a full engineering design package for a light non-aqueous phase liquid (LNAPL) recovery system according to company and regulatory standards. Selected skimmer pumps, determined pipe sizes and materials, determined tank sizes for recovered product, designed a monitoring and telemetry system, two equipment enclosures, a sampling schedule, and developed an operations and maintenance (O&M) manual.

**Chevron – Orlando Superfund Site**

Orlando, Florida  
2007-2012

Provided engineering support and oversight for source reduction (“dig and haul”) activities, which included the removal and disposal of approximately 4,100 tons of pesticide-impacted soil from the site.

Provided engineering support for the design, implementation, and monitoring of permeable reactive barriers (PRB's) installed at the site to reduce concentrations of pesticides in groundwater.

**Chevron – Operations & Maintenance (O&M) Portfolio**

Various States  
2005-2012

Provided science and engineering support for a portfolio of over 30 Chevron sites located in 13 states. Work includes groundwater monitoring reports, assisting with costs proposals, health and safety plans, and developing responses to agency letters.

**Chevron – West Coyote Hills**

Fullerton, California  
2008-2010

Developed a SWPPP for a former oil field site and performed routine stormwater inspections after rain events in accordance with regulatory and site requirements.

**United Technologies Corporation Pratt & Whitney Rocketdyne (UTC-PWR)**

San Jose, California  
2005-2008

Provided engineering support for various projects at a former rocket manufacturing facility. Projects included developing SWPPP's and ECPs at over 30 construction sites located in five watersheds for decommissioning and demolition activities; developed a Surface Soil Remediation Work Plan; developed an In-Situ Bioremediation Trench Work Plan; and performed earthwork and design calculations for an engineered surface cover.

**ANDREW R. JOHNSON, PE, CPESC**  
CIVIL ENGINEER

**Chevron – Former Tappan Terminal Site**

Hastings-on-Hudson, New York  
2012

Developed a Remedial Design Report which included the design of a two foot thick soil/vegetative cover (cap) across 7-acres of property (25,000 cubic yards of soil). The report included a Work Plan, Design Drawings, a Health & Safety Plan, a SWPPP, a Site Management Plan, a Construction Quality Assurance Plan (CQAP), and Citizen Participation Plan (CPP).

**Universal Studios Hollywood**

Hollywood, California  
2005-2012

Developed a site-wide Lock-Out Tag-Out (LOTO) safety program for the client. This included generating over 5,000 unique LOTO procedures for equipment located throughout the park. Equipment was categorized under the following maintenance departments: Animations, Electrical, Heating Ventilation and Air Condition (HVAC), and Sound/Video. Performed field inspections to analyze equipment and built-in safety controls. Most recent projects include *King Kong* (2011) and *Transformers* (2012).

**National Institute of Standards and Technology**

Boulder, Colorado  
2012

Developed a site-wide LOTO program for the client. The program assessed over 3,000 pieces of equipment and included the development of over 800 unique LOTO procedures for various types of HVAC and laboratory equipment.

**Maryland Port Administration**

Baltimore, Maryland  
2008

Developed LOTO program for equipment located throughout the Port of Baltimore as part of a site-wide health and safety program. The program included approximately 200 unique LOTO procedures for cranes and related equipment.

**City of Santa Barbara – El Estero Project**

Santa Barbara, California  
2007

Provided engineering support for a wetland restoration project aimed at restoring habitat for the southwest pond turtle and providing public outreach to the community.



**BRIAN S. BULLARD**  
**Director of Consulting Operations-Forecon, Inc.**  
Falconer, New York

### Education

**SUNY, College of Environmental Science and Forestry, Syracuse, New York**  
Major: Forest Recreation-Resources Management and Policy  
Degree: Master of Science, May 1986

**SUNY, College of Environmental Science and Forestry, Syracuse, New York**  
Major: Resource Management  
Degree: Bachelor of Science, May 1982

**Herkimer County Community College, Herkimer, New York**  
Major: Resource Management  
Degree: Associate in Science, 1981

### Experience

**1997-Present; Forecon, Inc.**

*Director of Consulting Operations*; responsible to direct the company's consulting forestry and natural resource operations including timber contract development and execution, bid prospectus development, timber appraisal, customer coordination, quote and plan large inventory projects, prepare mining plans, prepare Environmental Impact Statements; hire, train and promote staff, conduct seminars, interact with other resource professionals and governmental officials, ensure quality assurance/ quality control on projects, provide expert witness testimony.

**October 1984-1997; Forecon, Inc.**

*Forest Management and Environmental Specialist*; timber inventories and appraisals, shade tree appraisals, mining and reclamation projects, environmental permits acquisitions; forest inventory crew chief; gypsy moth project leader; data processor; forest recreation consultant, forest manager for several municipal watersheds, logging supervision, prepare Environmental Impact Statements for mining projects.

**1984; SUNY College of Environmental Science and Forestry**

*Teaching Assistant*; responsible for aiding professor in the teaching of Fundamentals of Outdoor Recreation and Outdoor Recreation Management.

**1983; Oswego County Conservation Corps**

*Crew Supervisor*; planned and supervised daily activities of seven young adults. Developed a 3/4 mile interpretive trail loop, maintained existing trails, rustic construction of bridges, walkways, and built an outdoor education center.

**1983; SUNY College of Environmental Science and Forestry**

*College Work-Study*; successfully developed a computer program to analyze and tabulate statistics from a survey of New York Timber Harvests.

**Licenses**

New York State Real Estate Broker – 1995

New York State Real Estate Salesperson – 1989

Realtor Designation, National Association of Realtors

Completed Bureau Veritas Quality International (BVQI) Lead Auditor training

American Tree Farm System Qualified Inspector

American Tree Farm System Group Certification Lead Auditor

**Professional Affiliations**

Member - Society of American Foresters , Certified Forester - #1575

Past Chair – New York Society of American Foresters Nominations Committee

Member – Catskill Forest Association

Chairman – Forestry Subcommittee, Chautauqua County Farmland Protection Plan

New York State Cooperating Consulting Forester

Sustainable Forestry Initiative Discussion Leader – New York and Pennsylvania

New York Forest Owners Association – Allegheny Foothills Chapter Planning  
Coordinator

Participating Broker with Cabela's Trophy Properties

Boy Scouts of America – Scoutmaster, Scoutmaster for 2005 National Jamboree

Contingent, Co-Chair of 2010 National Jamboree Planning Committee for Allegheny  
Highlands Council.



**MAUREEN A. MACK**  
**Forest Technician/Cartographer Forecon, Inc.**  
Falconer, New York 14733

### Education

**SUNY, College of Environmental Science and Forestry, Wanakena, New York**

Major: Forestry-Ranger School Program

Degree: Associate in Applied Science-Forest Technology, 1983

**Jamestown Community College, Jamestown, New York**

1979-1980 College preparation for forest tech program

1980, 1986, 1989, 1990 Various courses in Photography, Real Estate and  
Technical Drawing

### Experience

**1984-Present; Forecon, Inc.**

*Technical Forester*; mine land reclamation projects, liasing with property owners, timber buyers/loggers; logging inspections and compliance; boundary line maintenance.

*Cartographer*; designing maps, graphics, illustrations and layouts; researching, selecting and evaluating map source data for use in the preparation or revision of maps and charts to various scales; liasing with surveyors; working with geographical information systems (GIS) to see, mode and analyze landscape features.

**1984-1985; Forecon, Inc., Cortland, New York Office**

*Forestry Aid*; timber cruising, tree planting, logging compliance, collected field data for 480a Forest Management Plans.

**1981-1983; Allegany State Park, Salamanca, New York**

*Crew Leader*; in charge of cabin and trail maintenance crew.

**1979; Allegany State Park, Salamanca, New York**

Served on tent and trailer camping area maintenance.

### Software

Arc view 9.1; Microsoft Office, Windows 95/NT/2000.

### Partial List of Projects

Chautauqua County Parks: Assist in design layout and map revisions to Marden E. Cobb Waterway Trail; the Earl Cardot Eastside Overland Trail; the Fred J. Cusimano Westside Overland Trail; John Luensman Overview Park; Tom Erlandson Overview Park.



**TODD KRUEGER**  
**GIS Analyst/Database Administrator - Forecon, Inc.**  
Falconer, New York

### Education

**SUNY, Empire State College, Saratoga Springs, NY (Niagara Frontier)**  
Major: Information Systems, Geographic Information Systems  
Degree: Bachelor of Science, 2008

**SUNY, Jamestown Community College, Jamestown, NY**  
Major: Math/Science  
Degree: A.S. Mathematics/Science, 1992  
Biology, Computer Science

**NYS Ranger School, SUNY College of Environmental Science and Forestry,  
Wanakena, NY**  
Major: Forestry  
Degree: A.A.S. Forest Technology, 1995  
Forest Technology

### Experience

#### **2010-Present; Forecon, Inc.**

**GIS Analyst/Programmer & Database Administrator;** Spatial data analysis and cartographic production using ESRI ArcGIS, ESRI ArcSde, GeoServer; Database administration and data analysis. Microsoft SQL Server 2000, 2005, 2008, PostgreSQL, MySql; Responsible for creation, maintenance, availability and customization of spatial and tabular datasets for use in strategic planning, business analytics, and highest-best-use decision processes. Data mining and analysis; Interface with diverse client base; troubleshooting, work planning, needs analysis and client relations; Assist clients and coworkers with technical support and training; Implement company wide technology solutions and evangelize the benefits of such; Interface with and supervise technology vendors and contractors; Develop work plans and set milestones.

#### **1999-2010; Forecon, Inc.**

**GIS Analyst/Database Administrator;** Create, maintain and tune multiple SQL Server/ArcSDE/ArcGIS tabular and spatial databases for a proprietary versioned hardwood land management system; Update and generate quarterly growth and yield reports to be used by land managers and fiduciary agents for over \$500,000,000 worth of industrial timberlands; Assist and advise project managers, land managers, foresters, accountants, and financial analysts with SQL Server data extraction and manipulation using T-SQL, Crystal Reports, .NET, ASP, ESRI ArcGIS, and MS Access & Office; Prepare needs analysis and “use case”

documentation for internal corporate and external clients to facilitate timely and cost effective software development, budgets and data maintenance; Responsible for communicating to clients the capabilities and benefits of TIGERWeb and working closely with client data managers to ensure that data collection and collation adhere to strict quality standards; Provide creative solutions to data and cartographic needs for external clients and internal corporate end users.

**1996-1997; U.S. Forest Service, Allegheny National Forest  
Northern Ranger District, Bradford, PA**

*Forest Technician;* Timber sale preparation, timber marking in high value Alleghany Plateau stands utilizing numerous standard and experimental silvicultural techniques in order to meet timber harvest quotas and manipulate stands for Forest Service land managers and forest researchers.

**1995-1996; U.S. Forest Service, Ashley National Forest  
Vernal Ranger District, Vernal, UT**

*Forest Technician;* Timber sale preparation, stand layout and survey, and timber marking to meet silvicultural guidelines and control mistletoe infestation in Spruce/Pine stands above 7,000 feet elevation.

**1995-1995; U.S. Forest Service, Allegheny National Forest  
Southern Ranger District, Marienville, PA**

*Forest Technician;* Timber sale preparation, timber marking in high value Alleghany Plateau stands utilizing numerous standard and experimental silvicultural techniques in order to meet timber harvest quotas and manipulate stands for Forest Service land managers and forest researchers.



**RICHARD CONSTANTINO**  
**Senior Biologist/Ecosystems Services Manager**  
Falconer, New York

### Education

#### *SUNY, College of Environmental Science and Forestry, Syracuse, NY*

- Degree: Bachelor of Science Degree in Environmental/Forest Biology, 1/98-12/99
- Concentrating in plant science and wildlife conservation

#### *SUNY, Jamestown Community College, Jamestown, NY*

- Concentrating in biology and chemistry, 8/95-12/97

### Experience

**November 2010-present: Forecon, Inc., Falconer, NY**

***Senior Biologist/Ecosystems Services Manager***; Responsible for overseeing all aspects of FORECON's Ecosystem Services Division.

General Real Estate Appraiser Assistant – Assist the appraisal department on timberland appraisals, economic analysis, database, and administrative review of clients' timber, real estate and natural resource investments. Currently seeking certification as a General Real Estate Appraiser

**June 2008 to November 2010; Chautauqua County Department of Planning and Economic Development, Jamestown, NY**

***Watershed Coordinator***; Responsible for organizing watershed planning efforts, education programs, and the implementation of projects for the protection and restoration of local water resources. These tasks are accomplished by networking with agencies, organizations and citizens to develop effective watershed management plans and sustained long-term local efforts aimed at yielding clean lakes, rivers and streams. Also, serve as the county's liaison for lake and watershed initiatives and interact with numerous organizations and at all levels of government including: town and village boards, County Legislature, NYS Department of State Division of Coastal Resources, NYS Department of Environmental Conservation, US Army Corp of Engineers, Chautauqua Lake Management Commission, Cassadaga Lakes Association, Findley Lake Watershed Foundation, Chautauqua County Water Quality Task Force, Southern Tier West Regional Planning, and Conewango Creek Watershed Association.

Selected Past Projects:

- 1) Administered, assisted with design, and coordinated the construction of lake and watershed improvements projects through the County's Occupancy Tax Grants. Projects included;



- Streambank and shoreline restoration utilizing bioengineering techniques that include rock rip rap, coconut fiber logs, and willow and other tree species.
  - Stormwater retrofits that include; drainage inlet retrofits with advanced cyclone filtration, pervious pavement, and rain gardens.
  - Constructed wetland and sediment basins
  - Road ditch stabilization utilizing concrete check dams and/or rock rip rap
  - Stormwater and erosion and sedimentation technical services for municipal officials, highway DPW personnel, planning and zoning boards, contractors, developers, and others.
- 2) Coordinated the development of the Chautauqua Lake Watershed Management Plan.
- 3) Administered three New York State Environmental Protection Fund Grants totaling in excess of \$600,000. Grants tasks include:
- Development of the Chautauqua Lake Watershed Management Plan
  - Studies of two sub-watersheds of Chautauqua Lake. Study entailed stream geomorphology, nutrient and sediment yield modeling, water quality testing, identification of threatened and endangered species and communities, identification of invasive species, and the identification and location of preferred stream restoration projects.
  - Public education and outreach including five public meetings, training seminars and presentations, and the production of a watershed video.
- 4) Chairman of the Water Resources Focus Group for the Chautauqua County Comprehensive Plan

**March 2000 to June 2008; Forecon, Inc., Falconer, NY**

**Biologist/ Ecosystem Specialist;** Developed wildlife management reports and perform field work related to wildlife management for private landowners. Advised clients and potential clients on selecting, installing and maintaining a variety of measures that conserve and improve: soil, plant, water, wildlife, and/or recreational resources. Performed wildlife habitat sampling on the landscape level. Surveys are based on current U.S. Forest Service and U.S. Fish and Wildlife research. Performed biological surveys on ecologically unique areas, including wetlands, and develop reports for wetland mitigation. Researched and reported the occurrences of rare, threatened, and endangered species on client owned lands, including federally listed G1 and G2 species. Accessed nuisance wildlife complaints and acquired the permits necessary for removal. Performed carbon sequestration and modeling projects for several large landowners throughout North and South America. Developed forest carbon offset projects and provided technical expertise for several greenhouse gas registries and markets, including the Chicago Climate Exchange and the Regional Greenhouse Gas Initiative.

**Whitetail Deer Management;** administered the principles relating to the adverse affects of a high deer herd in forest ecosystems on the landscape level. Performed deer population surveys annually on several thousand acres of privately owned industrial forest land. Developed and administered hunting leases for clients. Provided deer harvest recommendations and educated hunters on the principles of Quality Deer Management on leased land. Distributed and processed permits to lease hunters under the New York State Deer Management Assistance Program. Examined harvested white-tailed deer for age, sex, weight, health, and antler measurement.

**Forest Technician;** Experienced in all categories of Forest Management activities including: timber marking, timber inventory, timber stand improvement, mapping, data processing, data collection, preparing limited client reports, assist in surveys, logging inspection.

**Field operations manager;** for Western New York Willow Biomass Project site trials contracted through SUNY-ESF.

Selected Past Projects:

- 1) Canaan Valley, West Virginia Eco-Assets Appraisal: Provided habitat assessment and mapping for the threatened and endangered Cheat Mountain salamander, West Virginia northern flying squirrel, and Indiana bat.
- 2) Gravel mine expansion wetland delineation: Performed wetland delineation for a proposed gravel mine expansion and determined the location of the wetland for avoidance purposes. Delineation was performed in accordance with the US Army Corps of Engineers 1987 Wetland Delineation Manual.
- 3) Plant survey for the NYS endangered woodland bluegrass (*Poa sylvestris*); Performed a plant survey at a proposed gravel mine site, plant is listed in the NYSDEC's Natural Heritage plant database. Survey was conducted to satisfy findings under the State Environmental Quality Review Act (SEQRA).
- 4) Northern Wisconsin wildlife habitat assessment: Provided habitat assessment, mapping, and reporting on over 50,000 acres of sustainably managed forestland in Northern Wisconsin for conservation easement purposes. The habitat assessment included an analysis and/or the quantification of ecologically unique sites including wetlands, dead and down woody material, snags and den trees, rock outcropping or boulders, and vegetative survey from the ground to canopy.

**May to July 1999-The Nature Conservancy/NYS Natural Heritage Program, Latham, NY**

**Independent Contractor;** Assessed wetlands for possible Blandings turtle population occurrence; Trapped and documented occurrences of Blandings turtles; Obtained permission to sample and cooperate with landowners possessing sites of sampling interest.

**May to August 1998-WNY Crop Management Association, Perry, NY**

**Field Crop Technician;** Performed field work relating to soil sampling, scouting, and crop assessment; Worked closely with dairy farmers and shared findings made in the field, field observations were used as the basis for crop management recommendations

**Certificates and Continuing Education**

9/01 – USFS and Penn State University – Silviculture of Allegheny Hardwoods

6/01 – Bureau Veritas:

- o Environmental Management System Internal Auditor
- o Introduction to Sustainable Forestry Initiative

10/00 – SUNY College of Environmental Science and Forestry:

- o BMP Timber Harvest Planning and Implementation

9/06 – Wetland Training Institute:

- o Wetland Delineation in accordance with U.S. Army Corp of Engineers 1987 manual

12/09 – US Army Corp of Engineers – Stream Restoration and Sediment Training

2/11 – Basic Appraisal Principles

2/11 – Basic Appraisal Procedures

4/11 – National Uniform Standards of Professional Appraisal Practice

5/11 – Appraisal Statistics Modeling and Finance

5/11 – Mineral Rights Valuation and Appraisal Perspectives

7/12 – General Appraiser Market Analysis and Highest and Best Use

9/12 – General Sales Comparison Approach



**JASON M. WENRCH**  
**Regional Manager/Staff Forester- Forecon, Inc.**  
State College, Pennsylvania

### **Education**

**The Pennsylvania State University, University Park, PA**  
B.S. in Forest Science - Forest Management option, May 2000

### **Experience**

**2005-Present; Forecon, Inc., State College, Pennsylvania**

**Regional Office Manager/Staff Forester;** Oversee all functions of two regional offices; Supervise daily activities performed by technicians; Project areas encompass West Virginia, New York, Pennsylvania, Virginia, North Carolina, and Tennessee; Monitor and schedule annual activities on a 28,000 acre, FSC certified, land management contract, concurrent with the 10-year management plan; activities include cruising, layout, marking, GPS, and administration of timber sales; Design and manage timber cruises for state agencies, timber investment management organizations, large land holding companies, and high net worth individuals; total acreage in 14 projects was more than 245,000 acres, and 40,000 cruise plots; Assist private landowners with all facets of forest management including plan development, timber sales, timber appraisals, timber inventory, and timber trespass assessment; Quote and accept contracts for services and timber sales in a timely manner

**2001-2005; Northeastern Forestry Concepts, Inc., Bethlehem, PA**

**Field Forester;** Prepared more than 200 woodland management plans and forest stewardship plans in eastern Pennsylvania and northern New Jersey; Estimated timber volumes for harvesting and management plan purposes; Marked standing timber for harvesting; Established property lines in the field for timber sales and property posting; Performed light duty timber stand improvement cutting, as well as tree planting; Utilized GPS to prepare tree replacement plans for development companies

**2000-2001; Weaber Forests, Inc., Lebanon, PA**

**Log Inspector;** Worked in the sawmill as a general laborer; Scaled and graded logs in a hardwood log yard; Observed various sawyers to learn how log defects relate to lumber grade

**1999-1999; Penn State University Regeneration Study, University Park, PA**

**Research Technician;** Measured and recorded regeneration and overstory variables on Pennsylvania Bureau of Forestry land; Located and established permanent regeneration sample locations

### **Professional Organizations**

Society of American Foresters member  
Association of Consulting Foresters member, Virginia and West Virginia Chapters  
West Virginia Forestry Association member  
Forest Landowners Association, Board of Directors member for West Virginia

## Certifications and Awards

West Virginia Registered Forester #672  
Certified Tree Farm Inspector  
Pennsylvania Certified Commercial Pesticide Applicator  
West Virginia Registered Commercial Pesticide Applicator  
Pennsylvania Forest Stewardship Plan Approved Writer  
2007 Forecon, Inc. Employee of the Year

## Project References

**2012;** Completed a timber inventory on 11,500 acres for The Nature Conservancy in Southwest Virginia. The cruise was designed to adhere to the CAR protocols for a carbon project.

**2006-2011;** Provided Pardee & Curtin with a timber inventory consisting of a 20BA factor cruise on approximately 60,000 acres in 2011. This inventory consisted of approximately 9,105 plots taken over a 5 month time frame. Another 57,000 acres was inventoried in 2006, which involved approximately 6,800 inventory plots. The latter of these cruises subsequently led to the timber marking of 2 shelterwood harvests in 2008. Both inventories are currently maintained on FORECON's TIGERWEB.

**2008-2009;** Provided the State of West Virginia DOF with a timber inventory consisting of a 20BA factor cruise on a 5,280 acre and an 8,000 acre state forest. A total of approximately 1330 plots were taken during this inventory.

**2011;** Completed a timber inventory on 11,500 acres for The Nature Conservancy in Southwest Virginia. The cruise was designed to adhere to the CAR protocols for a carbon project.

**2008;** Completed a due-diligence inventory for Forest Investment Associates in West Virginia on approximately 16,000 acres. This was a 20BAF cruise with a total of approximately 1650 plots.

**2007;** Completed a 10BAF/20BAF timber cruise on approximately 35,000 for Forest Resources Management on properties located in Virginia and North Carolina. There were approximately 5,400 plots collected.

**2006-2007;** Completed an ongoing (since 2004) timber and habitat inventory for The Forestland Group, LLC. Collected data on over 5,000 20BAF overstory inventory plots. In addition, habitat data was recorded on fixed radius sampling plots, consisting of ground cover, regeneration, and down & dead woody debris.

**2006;** Completed a 20BAF timber inventory on approximately 22,000 acres for the Jim C. Hamer Lumber Company in West Virginia. An appraisal was developed, which was used in the subsequent sale of these properties.

**2005-Present;** Completed over 30,000 20BAF overstory inventory plots for Plum Creek Timberlands on a rolling inventory program on their ownership in West Virginia. These plots have included the collection of down & dead woody debris as well as grape vine information.



**DUSTIN B. RADABAUGH**  
**Staff Forester/Office Manager - Forecon, Inc.**  
Elkins, West Virginia

### Education

**West Virginia University, Morgantown, West Virginia**  
Forest Resource Management – May 2005

**Glenville State College, Glenville, West Virginia**  
Associates in Forestry – May 2002

### Experience

**2012-Present; Timberland Realty**

*Sales Agent*; rent, buy, or sell property for clients. Perform duties, such as study property listings, interview prospective clients, accompany clients to property site, discuss conditions of sale, and draw up real estate contracts.

**2005-Present; Forecon, Inc.**

*Staff Forester, Office Manager*; timber inventories; timber marking; timber sale inspections; crew leader; prepare reports; data collection; prepare maps; preparation in forest management plans; laying out and design inventory projects; assist in land management responsibilities; property inspections, boundary line maintenance, courthouse deed and easement searches, herbicide treatment, GPS and GIS work; knowledge of forestry software types; ArcView, ArcMap, ArcPad, Two Dog.

**2003-2005; West Virginia University**

*Research Aide*; data input using Microsoft Excel and Access.

**2003; West Virginia University**

*Research Aid*; conducted forest inventory measurements on WV University Forest; performed herbicide treatments in white pine plantation; established CFI plots with GPS; examined and recorded information on acorn weevils for a research study conducted at Fernow Research Forest in Parsons, WV; operated a brush saw in silviculture treatments in a ten year old clear cut.

**2002; West Virginia University**

*Research Aide*; forest inventory measurements, habitat analysis and electronic field data collection conducted on two WV State Forests (Kumbrabow, Calvin Price).

### Certifications

WV Registered Forester #703  
WV Registered Herbicide Technician #RO7277  
American Tree Farm Inspector  
CPR

### Organizations

Society of American Foresters



**TRAVIS ACKER**  
**Senior GIS/DBM Technician/Department Manager – Forecon, Inc.**  
Falconer, New York

**Education**

**SUNY College of Fredonia**  
Bachelor of Science, Geology, Minor: GIS, May 2009

**Experience**

**2010 – Present; Forecon, Inc.**

***GIS Department Manager/Analyst;*** Client development, relations and marketing. Development, analysis and management of a proprietary Microsoft SQL server database / GIS based Forestry database (TIGER). Development and Preparation of quarterly reports for Timber Investment Clients. Data development, management, backup and security, QA/QC. Map production/digitizing. GPS job and mission planning, data collection, and correction. Local Area Network Administration/Software and Hardware training. Development of innovative GIS solutions for natural resource applications.



# Brochures

# Andrew R. Johnson, PE, CPESC

## Environmental-Water Resources-Health & Safety

### EcoStrategies

1890 East Main Street  
Falconer, NY 14733

Office: (716) 664-5602 Ext. 400  
Cell: (716) 664-1661  
Fax: (716) 664-6648  
ajohnson@ecostrategiespllc.com  
www.ecostrategiespllc.com



# eco STRATEGIES

## CIVIL ENGINEERING

### About

EcoStrategies is a civil engineering firm specializing in the fields of Environmental, Water Resources, and Health and Safety. Andy Johnson is the Principal Engineer for EcoStrategies. Andy is a Professional Civil Engineer (PE) licensed in New York State and is also a Certified Professional in Erosion & Sediment Control (CPESC). He has a bachelor's degree in *Civil Engineering* and a master's degree in *Environmental and Water Resources Engineering* and spent eight years working for one of the top 10 engineering consulting firms in the world.

EcoStrategies can provide high quality civil engineering services to the public and private industry at an exceptional value. Clients can expect dedicated service, responsiveness, agility, competitive rates and innovative cost-saving solutions. EcoStrategies home office is located in Falconer, New York with seven satellite work offices located throughout New York, Pennsylvania & West Virginia.

### Water Resources

- Design of Pipelines, Culverts, Ditches, Open Channels, and Water Conveyance Structures
- Grading and Drainage Plans
- Storm water Pollution Prevention Plans (SWPPPs)
- State Pollutant Discharge Elimination System (SPDES) Permits
- Erosion and Sediment Control Plans (ECPs)
- Design of Storm water Best Management Practices (BMPs) (sediment basins, check dams, etc.)
- River/Streambed Restoration
- Pond or Dam Planning, Permitting, Design, Compliance, and Maintenance
- Wastewater and Drinking Water Infrastructure
- Construction Oversight, Inspection, and Stewardship
- On-call Services for Local Municipalities and Private Entities

### Environmental Services

- Oil and Gas Industry
  - Planning, Permitting, and Compliance for Pipelines, Roads, and Drilling Pads
  - Erosion and Sediment Control Plans (ECPs)
  - Storm Water Pollution Prevention Plans (SWPPPs)
  - Wastewater Planning, Management, Characterization & Disposal Coordination (for hydrofracking)
  - Road Design and Drainage.
  - Construction Oversight, Inspection, and Stewardship
- Gravel Mines
  - Planning, Permitting, and Compliance
  - Reclamation Plans
- Sewage Permits
- Remediation (Clean-up of Soil and Water)
- Brownfield Restoration
- Groundwater Monitoring and Reporting
- Feasibility Studies
- Remedial Action Plans
- Sampling, Monitoring, and Reporting
- Environmental Assessments (Phase I & Phase II)
- Strategic Planning (Life Cycle Costs Analysis)
- Evapotranspiration (ET) Covers (Design, Build, Operate, Maintain)
- Biomass planning and development (Energy Crops)
- Ecological Restoration and Enhancement (forest engineering)
- Wetland/Watershed Planning, Permitting, Design and Reclamation
- Trail Design
- On-call Services for Local Municipalities and Private Entities

### Health & Safety Services

- Client Specific Lock-Out Tag-Out (LOTO) Programs and Procedures
- Job Safety Analysis
- Health and Safety Plans
- Health and Safety Stewardship and Oversight
- Noise Studies

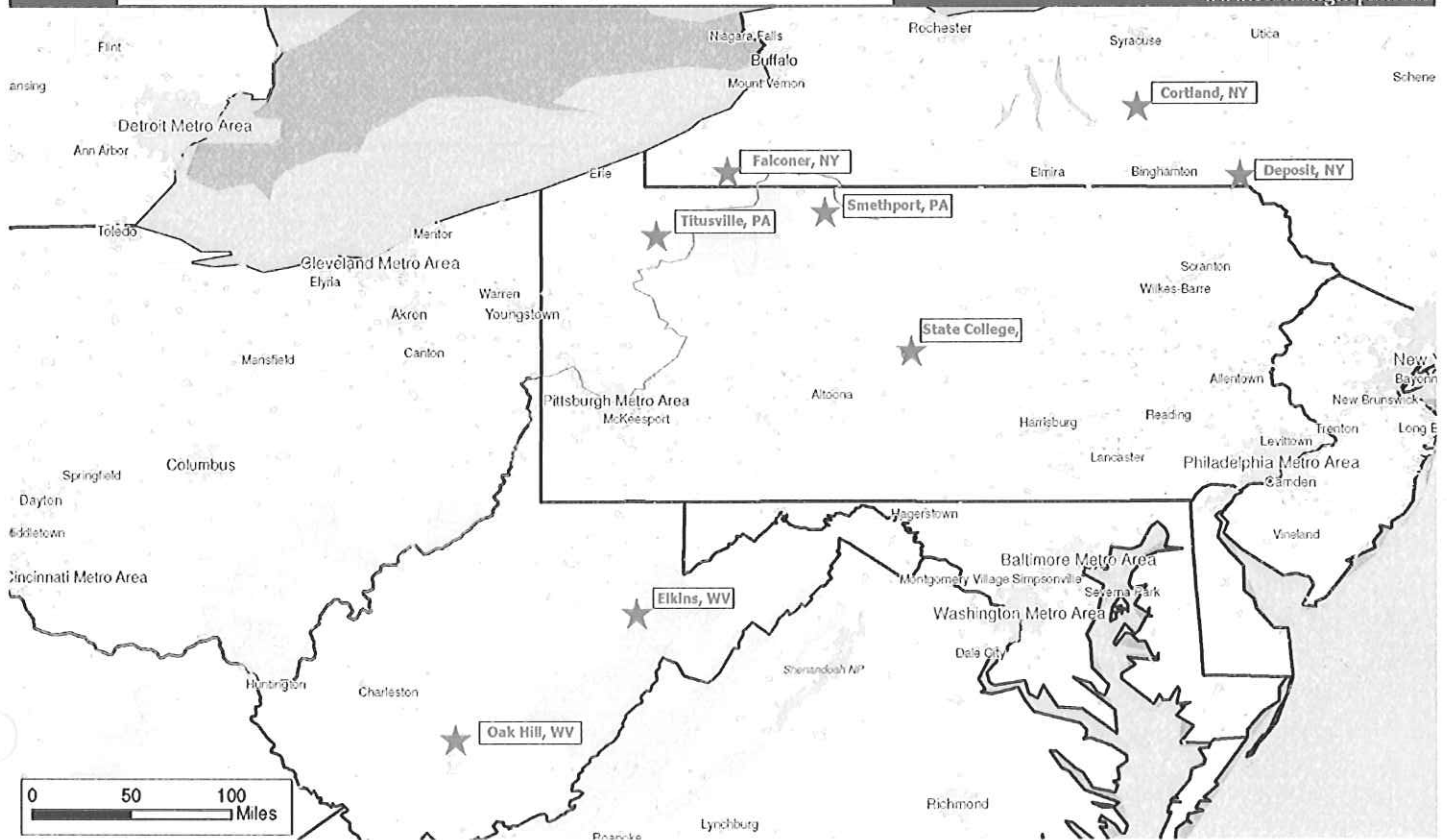




# ecoSTRATEGIES

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- Smethport, PA
- Titusville, PA
- State College, PA
- Elkins, WV
- Oak Hill, WV

*Environmental - Water Resources - Health & Safety*